

Distributional Checklist of Nearctic Trichoptera  
(2022 Revision)

This checklist is a working document that is periodically updated and posted on *Trichoptera Nearctica* (<http://www.trichoptera.org/>). It lists all known Trichoptera species from the continental United States and Canada along with known published state or provincial distribution records, as well as known synonyms and illustrations that have been published since 1960 (See F.C.J. Fischer, 1960-1973, for synonyms and illustrations and some distribution records published before 1961). This current checklist documents 1,511 valid species of Trichoptera, representing 27 families and 156 genera, recorded from the continental US and Canada.

Preceding the distributional checklist is a summary checklist of the species richness and geographic distribution of Trichoptera species in the US and Canada. The classification used in the summary checklist is based on the scheme adopted in the Trichoptera chapter (Morse, Holzenthal, Robertson, Rasmussen, & Currie, 2019) of the 5<sup>th</sup> edition of *An Introduction to the Aquatic Insects of North America*, edited by Merritt, Cummins, & Berg.

The distributional checklist beginning on Page 7 lists families and genera alphabetically. The family headings include the total number of valid genera and species for each respective family recorded from the United States and Canada. US states and Canadian provinces or territories are listed alphabetically using standard postal code abbreviations (see accompanying downloadable document).

A bibliography is being prepared but is not yet available. To assure accuracy, references should be checked before any information is used from this list. Users of this list who find errors or omissions from published literature (including publicly accessible MS theses and PhD dissertations) are encouraged to relay details to the Editor, Dr. Andrew K. Rasmussen [[andrew.rasmussen@famu.edu](mailto:andrew.rasmussen@famu.edu)].

Further notes and bibliographic details about species on this list can be found in the Trichoptera World Checklist (<https://trichopt.app.clemson.edu/welcome.php>). Complete references for most of the literature cited in this list can be found in the Trichoptera Literature Database ([https://www.zotero.org/groups/2425088/trichoptera\\_literature\\_database](https://www.zotero.org/groups/2425088/trichoptera_literature_database)).

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**I. CHECKLIST SUMMARY AND CLASSIFICATION.** Number of species is shown in parentheses.

**SUBORDER ANNULIPALPIA**

**SUPERFAMILY HYDROPSYCHOIDEA**

Family Hydropsychidae (159)—Net-spinning Caddisflies

Subfamily Arctopsychinae (12)

*Arctopsyche* (5) widespread

*Parapsyche* (7) widespread

Subfamily Hydropsychinae (121)

*Cheumatopsyche* (44) widespread

*Hydropsyche* (76) widespread

*Potamyia flava* (Hagen) Central, East

Subfamily Diplectroninae (18)

*Diplectrona* (5) widespread

*Homoplectra* (12) East, West

*Oropsyche howellae* Ross NC

Subfamily Macronematinae (4)

*Leptonema albobirens* (Walker) TX

*Macrostemum* (3) Central, East

Subfamily Smicrideinae (4)

*Smicridea* (4) Southwest

**SUPERFAMILY PHILOPOTAMOIDEA**

Family Philopotamidae (48)—Finger-net Caddisflies

*Chimarra* (20) widespread

*Dolophilodes* (7) widespread

*Fumonta major* (Banks) Southeast

*Sisko* (2) West

*Wormaldia* (18) widespread

**SUPERFAMILY PSYCHOMYIOIDEA**

Family Dipseudopsidae (5)—Pitot-tube Caddisflies

*Phylocentropus* (5) East

Family Ecnomidae (1)—Ecnomid Caddisflies

*Austrotinodes texensis* Bowles TX

Family Polycentropodidae (78)—Trumpet-net Caddisflies

*Cerrotina* (7) Central, East

*Cyrnellus fraternus* (Banks) Central, East

*Holocentropus* (9) Central, North

*Neureclipsis* (5) widespread, except Southwest

*Nyctiophylax* (10) widespread, except Southwest

*Plectrocnemia* (14) widespread, except Southwest

*Polycentropus* (29) widespread

*Polyplectropus* (3) Southwest

Family Psychomyiidae (17)—Net-tube Caddisflies

*Lype diversa* (Banks) Central, East

*Paduniella nearctica* Flint AR, Missouri Ozarks

*Psychomyia* (3) widespread

*Tinodes* (12) West

Family Xiphocentronidae (2)—Xiphocentronid Caddisflies

*Cnodocentron yavapai* Moulton & Stewart AZ

*Xiphocentron messapus* Schmid TX

## SUBORDER INTEGRIPALPIA

### Basal Lineages

Family Glossosomatidae (89)—Saddle-case Caddisflies

Subfamily Agapetinae (42)

*Agapetus* (42) widespread

Subfamily Glossosomatinae (28)

*Anagapetus* (5) West

*Glossosoma* (23) widespread

Subfamily Protoptilinae (19)

*Culoptila* (5) Northwest, West

*Padunia jeanae* (Ross) Southeast

*Protoptila* (13) widespread

Family Hydrobiosidae (3)—Hydrobiosid Caddisflies

*Atopsyche* (3) Southwest

Family Hydroptilidae (309)—Microcaddisflies

*Agraylea* (4) widespread, except deep Southeast

*Alisotrichia arizonica* (Blickle & Denning) Southwest

*Dibusa angata* Ross East

*Hydroptila* (120) widespread

*Ithytrichia* (3) widespread

*Leucotrichia* (3) widespread

*Mayatrichia* (5) widespread

*Metrichia* (3) Central, Southwest

*Neotrichia* (40) widespread

*Nothotrichia shasta* Harris & Armitage CA

*Ochrotrichia* (67) widespread

*Orthotrichia* (6) widespread

*Oxyethira* (46) widespread

*Palaeagapetus* (2) Northeast, Northwest

*Paucicalcaria ozarkensis* Mathis & Bowles AR

*Stactobiella* (5) widespread

*Zumatrichia notosa* (Ross) West

Family Rhyacophilidae (130)—Free-living Caddisflies

*Himalopsyche phryganea* (Ross) Pacific states

*Rhyacophila* (129) widespread

### Infraorder Brevitentoria

Family Beraeidae (3)—Spring-loving Caddisflies

*Beraea* (3) East

Family Calamoceratidae (5)—Comb-lipped Caddisflies

*Anisocentropus pyraloides* (Walker) Southeast

*Heteroplectron* (2) East, West Coast

*Phylloicus* (2) Southwest

Family Helicopsychidae (7)—Snail-case Caddisflies

*Helicopsyche* (7) widespread

Family Leptoceridae (124)—Long-horned Caddisflies

*Ceraclea* (39) widespread

<i>Leptocerus americanus</i> (Banks)	East, Central
<i>Mystacides</i> (3)	widespread
<i>Nectopsyche</i> (15)	widespread
<i>Oecetis</i> (26)	widespread
<i>Setodes</i> (10)	East Central
<i>Triaenodes</i> (30)	widespread

Family Molannidae (6)—Hood Caddisflies

<i>Molanna</i> (5)	Central, East
<i>Molannodes tinctus</i> (Zetterstedt)	far Northwest

Family Odontoceridae (13)—Mortarjoint Caddisflies

<i>Marilia</i> (2)	Central, Southwest, Vermont
<i>Namamyia plutonis</i> Banks	CA, OR
<i>Nerophilus californicus</i> (Hagen)	CA, OR
<i>Parthina</i> (2)	West
<i>Pseudogoera singularis</i> Carpenter	Southern Appalachian Mountains
<i>Psilotreta</i> (6)	East

Family Sericostomatidae (15)—Bush-tailed Caddisflies

<i>Agarodes</i> (12)	East, Central (as far west as MN and eastern TX)
<i>Fattigia pele</i> (Ross)	Southern Appalachian Mountains
<i>Gumaga</i> (2)	West (as far east as western KS)

**Infraorder Plenitentoria**

Family Apataniidae (39)—Mountain Caddisflies

<i>Allomyia</i> (18)	West
<i>Apatania</i> (15)	Appalachians, North, Southwest
<i>Manophylax</i> (4)	AK, Appalachians, ID
<i>Moselyana comosa</i> Denning	OR, WA
<i>Pedomoecus sierra</i> Ross	Northwest

Family Brachycentridae (36)—Humpless Caddisflies

<i>Adicrophleps hitchcocki</i> Flint	Northeast
<i>Amiocentrus aspilus</i> (Ross)	West
<i>Brachycentrus</i> (14)	widespread
<i>Eobrachycentrus gelidae</i> Wiggins	Northwest
<i>Micrasema</i> (19)	widespread

Family Goeridae (12)—Weighted-case Caddisflies

<i>Goera</i> (6)	East, Midwest, Northwest
<i>Goeracea</i> (2)	Northwest
<i>Goerita</i> (3)	East
<i>Lepania cascada</i> Ross	Northwest

Family Lepidostomatidae (72)—Bizzare Caddisflies

<i>Lepidostoma</i> (66)	widespread
<i>Theliopsyche</i> (6)	East

Family Limnephilidae (256)—Northern Caddisflies

<i>Allocosmoecus partitus</i> Banks	Northwest
<i>Amphicosmoecus canax</i> (Ross)	West
<i>Anabolia</i> (5)	widespread
<i>Arctopora</i> (3)	North
<i>Asynarchus</i> (13)	North

<i>Chilostigma itasca</i> Wiggins	MN
<i>Chilostigmodes areolatus</i> (Walker)	North
<i>Chyranda centralis</i> (Banks)	North, West
<i>Clistoronia</i> (4)	West
<i>Clostoea</i> (2)	Northwest
<i>Crenophylax sperryi</i> (Banks)	Southwest
<i>Cryptochia</i> (7)	West
<i>Desmona</i> (2)	CA
<i>Dicosmoecus</i> (4)	West
<i>Ecclisocosmoecus scylla</i> (Milne)	Northwest
<i>Ecclisomyia</i> (4)	West
<i>Eocosmoecus</i> (2)	Northwest
<i>Frenesia</i> (2)	East
<i>Glyphopsyche</i> (3)	Central, North
<i>Grammotaulius</i> (4)	North
<i>Grensia praeterita</i> (Walker)	Northwest
<i>Halesochila taylori</i> (Banks)	Northwest
<i>Hesperophylax</i> (7)	North, West
<i>Homophylax</i> (12)	West
<i>Hydatophylax</i> (4)	widespread, except Southwest
<i>Ironoquia</i> (5)	Central, East
<i>Lenarchus</i> (10)	North, West
<i>Leptophylax gracilis</i> Banks	Central
<i>Limnephilus</i> (86)	widespread, except deep Southeast
<i>Monophylax mono</i> (Denning)	West
<i>Montiphylax</i> (3)	Northwest
<i>Nemotaulius hostilis</i> (Hagen)	North
<i>Onocosmoecus</i> (2)	North, West
<i>Phanocelia canadensis</i> (Banks)	North
<i>Philarctus bergrothi</i> McLachlan	Northwest
<i>Philocasca</i> (4)	Northwest
<i>Platycentropus</i> (3)	widespread
<i>Pseudostenophylax</i> (3)	Central, East, Northwest
<i>Psychoglypha</i> (25)	North, West
<i>Psychoronia</i> (2)	West
<i>Pycnopsyche</i> (20)	Central, East, North
<i>Sphagnophylax meiops</i> Wiggins & Winchester	NT, YT.

Family Phryganeidae (28)—Giant Caddisflies

<i>Agrypnia</i> (10)	widespread
<i>Banksiola</i> (5)	widespread
<i>Beothukus complicatus</i> (Banks)	Northcentral, Northeast
<i>Fabria inornata</i> (Banks)	North
<i>Hagenella canadensis</i> (Banks)	Northcentral, Northeast
<i>Oligostomis</i> (2)	East, except deep Southeast
<i>Oligotricha lapponica</i> (Hagen)	AK, YT
<i>Phryganea</i> (2)	widespread
<i>Ptilostomis</i> (4)	widespread, except Southwest
<i>Yphria californica</i> (Banks)	CA, OR

Family Rossianidae (2)—Western Caddisflies

<i>Goereilla baumanni</i> Denning	Northwest
<i>Rossiana montana</i> Denning	Northwest

Family Thremmatidae (32)—Little Caddisflies

*Neophylax* (25) widespread, except Southwest  
*Oligophlebodes* (7) West

Family Uenoidae (20)—Stone-case Caddisflies

*Farula* (12) Pacific states

*Neothremma* (7) West

*Sericostriata surdickae* Wiggins, Weaver, & Unzicker ID, MT

## II. STATE AND PROVINCIAL DISTRIBUTIONAL CHECKLIST OF SPECIES

Apataniidae (5 genera, 38 species) —Mountain Caddisflies

- Allomyia acanthis* (Ross, 1950), Imania, WA;  
OR (Anderson, 1976; Ruiters & Nishimoto, 2019);  
WA (Ross, 1950; Ruiters, Kondratieff, Lechleitner, & Zuellig, 2005; Ruiters & Nishimoto, 2019).
- Allomyia bifosa* (Ross, 1950), Imania, AB;  
abdominal sternum V (Schmid, 1968);  
wings, male & female genitalia (Nimmo, 1971);  
wings (Schmid, 1980);  
AB (Ross, 1950; Schmid, 1968; Nimmo, 1971; Ruiters & Nishimoto, 2019);  
BC (Ross, 1950; Ross & Spencer, 1952; Nimmo, 1971; Nimmo & Scudder, 1978;  
Ruiters & Nishimoto, 2019);  
MT (Newell & Potter, 1973; Roemhild, 1982; Ruiters & Nishimoto, 2019);  
WY (Swegman & Ferrington, 1980; Ruiters & Lavigne, 1985; Ruiters & Nishimoto, 2019).
- Allomyia cascadis* (Ross, 1950), Imania, WA;  
wings, male & female genitalia (Nimmo, 1971);  
AB (Nimmo, 1971; Ruiters & Nishimoto, 2019);  
BC (Nimmo & Scudder, 1978; Ruiters & Nishimoto, 2019);  
MT (Newell, 1970; Newell & Potter, 1973; Roemhild, 1982; Ruiters & Nishimoto, 2019);  
OR (Schmid, 1968; Nimmo, 1971; Anderson, 1976; Ruiters & Nishimoto, 2019);  
WA (Ross, 1950; Nimmo, 1971; Ruiters, Kondratieff, Lechleitner, & Zuellig, 2005;  
Blinn & Ruiters, 2013; Ruiters & Nishimoto, 2019).
- Allomyia chama* (Denning, 1953), Imania, WY;  
CO (Zuellig, Heinold, Kondratieff, & Ruiters, 2012; Ruiters & Nishimoto, 2019);  
WY (Denning, 1953; Ruiters & Lavigne, 1985; Ruiters & Nishimoto, 2019).
- Allomyia cidoipes* (Schmid, 1968), Imania, WA;  
BC (Nimmo & Scudder, 1983; Ruiters & Nishimoto, 2019);  
CA (Erman, 1989; Erman & Erman, 1990);  
species identity of CA records unclear (Ruiters & Nishimoto, 2019);  
CA records are *A. renoa*, according to Ruiters, Givens, & Nishimoto, (2021));  
OR (Wiggins, 1973; Anderson, 1976; Ruiters & Nishimoto, 2019);  
WA (Schmid, 1968; Ruiters, Kondratieff, Lechleitner, & Zuellig, 2005;  
Ruiters & Nishimoto, 2019; Lonsdale, 2020).
- Allomyia gnathos* (Ross, 1950), Imania, CO;  
CO (Ross, 1950; Herrmann, Ruiters, & Unzicker, 1986; Ruiters, 1996;  
Zuellig, Heinold, Kondratieff, & Ruiters, 2012; Ruiters & Nishimoto, 2019);  
UT (Baumann & Unzicker, 1981; questionable record (Ruiters & Nishimoto, 2019).
- Allomyia hector* (Nimmo, 1971), Imania, AB;  
AB (Nimmo, 1971; Ruiters & Nishimoto, 2019; Lonsdale, 2020);  
MT (Ruiters & Nishimoto, 2019).
- Allomyia kondratieffi* Ruiters & Nishimoto, 2019, CO;  
male genitalia (Ruiters & Nishimoto, 2019);  
CO (Ruiters & Nishimoto, 2019).
- Allomyia leei* Ruiters & Nishimoto, 2019, WA;  
male genitalia (Ruiters & Nishimoto, 2019);  
WA (Ruiters & Nishimoto, 2019).
- Allomyia meachamensis* Ruiters & Nishimoto, 2019, OR;  
male genitalia (Ruiters & Nishimoto, 2019);  
OR (Ruiters & Nishimoto, 2019).
- Allomyia picoides* (Ross, 1950), Imania, AK;  
AK (Ross, 1950; Ruiters & Nishimoto, 2019);  
CA (Ruiters & Nishimoto, 2019);  
MT (Ruiters & Nishimoto, 2019).
- Allomyia renoa* (Milne, 1935), Algonquina, NV;

- male & female genitalia, pupal hook plates, larva & case (Ruiter, Givens, & Nishimoto, 2021);  
 CA (Erman, 1997 [as *Allomyia* n. sp.]; Ruiter, Givens, & Nishimoto, 2021;  
 Resh & Mendez, 2022);  
 NV (Milne, 1935; Ruiter, Baumann, & Flint, 2014; Ruiter & Nishimoto, 2019;  
 Ruiter, Givens, & Nishimoto, 2021).
- Allomyia sarahae* Ruiter & Nishimoto, 2019, UT;  
 male genitalia (Ruiter & Nishimoto, 2019);  
 NV (Ruiter & Nishimoto, 2019);  
 UT (Ruiter & Nishimoto, 2019).
- Allomyia scotti* (Wiggins, 1973), Imania, OR;  
 larva, case (Wiggins, 1977);  
 OR (Wiggins, 1973; Anderson, 1976; Wiggins, 1977; Ruiter & Nishimoto, 2019).
- Allomyia sheldoni* Ruiter & Nishimoto, 2019, NV;  
 male genitalia (Ruiter & Nishimoto, 2019);  
 NV (Ruiter & Nishimoto, 2019).
- Allomyia thomasi* (Nimmo, 1977), Imania, AB;  
 AB (Nimmo, 1977; Ruiter & Nishimoto, 2019; Lonsdale, 2020);  
 MT (Ruiter & Nishimoto, 2019).
- Allomyia tripunctata* (Banks, 1900), Apatania, AK;  
 wings, male genitalia (Nimmo, 1971);  
 male & female genitalia (Schmid, 1980);  
 AB (Nimmo, 1971; Ruiter & Nishimoto, 2019);  
 AK (Banks, 1900; Ross, 1950; Nimmo, 1971; Vineyard, 1982; Ruiter & Nishimoto, 2019);  
 BC (Essig, 1926; Denning, 1948; Ross, 1950; Ross & Spencer, 1952; Schmid, 1968;  
 Nimmo, 1971; Nimmo & Scudder, 1978; Ruiter & Nishimoto, 2019);  
 CO (Dodds & Hisaw, 1925; Nimmo, 1971; Ward, 1981; Herrmann, Ruiter, & Unzicker, 1986;  
 Zuellig, Heinold, Kondratieff, & Ruiter, 2012; Ruiter & Nishimoto, 2019);  
 MT (Betten, 1934; Nimmo, 1971; Roemhild, 1982; Ruiter & Nishimoto, 2019);  
 SD (Ruiter & Nishimoto, 2019);  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WA (Essig, 1926; Nimmo, 1971; Ruiter & Nishimoto, 2019);  
 WY (Denning, 1948; Ross, 1950; Nimmo, 1971; Ruiter & Lavigne, 1985; Ruiter, 1996;  
 Ruiter & Nishimoto, 2019).
- Allomyia whatcomensis* Ruiter & Nishimoto, 2019, WA;  
 male genitalia (Ruiter & Nishimoto, 2019);  
 WA (Ruiter & Nishimoto, 2019).
- Apatania alberta* Nimmo, 1971, AB;  
 AB (Nimmo, 1971; Lonsdale, 2020);  
 BC (Nimmo & Scudder, 1983).
- Apatania arizona* Wiggins, 1973, AZ;  
 larva, case (Wiggins, 1977);  
 AZ (Wiggins, 1973; Wiggins, 1977; Moulton, Stewart, & Young, 1994; Ruiter, 1996;  
 Houghton, 2001; Blinn & Ruiter, 2006; Blinn & Ruiter, 2009a; Blinn & Ruiter, 2009b).
- Apatania barri* Smith, 1969, ID;  
 ID (Smith, 1969);  
 MT (Jones & Resh, 1988).
- Apatania chasica* (Denning, 1954), Radema, MT;  
 CA (Resh & Mendez, 2022);  
 ID (Smith, 1969; Newell & Minshall, 1977);  
 MT (Denning, 1954; Newell, 1970; Newell & Potter, 1973; Roemhild, 1982);  
 UT (Baumann & Unzicker, 1981).
- Apatania comosa* (Denning, 1949), Radema, UT;  
 ID (Newell & Minshall, 1977);  
 MT (Newell, 1970; Newell & Potter, 1973; Roemhild, 1982);



- NV (Ruiter, Baumann, & Flint, 2014);  
 UT (Denning, 1949; Schmid, 1955).
- Apatania crymophila* McLachlan, 1880, northwestern Siberia;  
 larva (Lepneva, 1966/71);  
 male & female genitalia (Nimmo, 1971);  
 Canada (Schmid, 1954; Schmid, 1955);  
 AK (Nimmo, 1971; Irons, 1988; Webb, Cole, & Simmons, 2022);  
 MB (Ross, 1938; Nimmo, 1971; Flannagan & Flannagan, 1982);  
 NT (Nimmo, 1971; Nimmo, 1986);  
 YT (Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997);  
 northern Asia (Lepneva, 1966/71);  
 northwestern Siberia (McLachlan, 1880);  
 Siberia (Levanidova, 1975).
- Apatania forsslundi* Tobias, 1981, Norway;  
 AK (Webb, Cole, & Simmons, 2022).
- Apatania hirtipes* (Curtis, 1835), Tinodes, American North Pole Region;  
 American North Pole Region (Curtis, 1835);  
 British America (Banks, 1907);  
 northern Canada (Ulmer, 1932; Schmid, 1955).
- Apatania incerta* (Banks, 1897), Enoicyla, NY;  
*Apatania blacki* Sykora & Weaver, 1978, PA (Flint, 2007);  
*Radema praevolans* Morse, 1971, SC (Flint, 2007);  
*Radema rossi* Morse, 1971, NC (Flint, 2007);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 Canada (Banks, 1897; Schmid, 1955);  
 CT (Flint, 1960; Nelson & Downs, 1995);  
 MA (Neves, 1979);  
 MN (Etnier, 1965, doubtful identification according to  
     Houghton, Holzenthal, Monson, & MacLean, 2001, & Houghton, 2012);  
 NC (Flint, 1960, uncertain record according to Etnier & Schuster, 1979; Morse, 1971;  
     Armitage & Tennessen, 1984; Morse, Hamilton, & Hoffman, 1989;  
     Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);  
 NH (Banks, 1897; Schmid, 1955);  
 NY (Banks, 1897; Zhou et al., 2011; Myers, Kondratieff, Mihuc, & Ruiter 2011);  
 PA (Sykora & Weaver, 1978; Masteller & Flint, 1992);  
 QC (Roy & Harper, 1979);  
 SC (Morse, 1971; Floyd, Morse, & Harris, 1997);  
 TN (Morse, 1971; Etnier & Schuster, 1979; Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Schmid, 1953; Parker & Vosshell, 1981; Flint, Hoffman, & Parker, 2008);  
 WI (Schmid, 1953; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hilsenhoff, 1995;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Tarter & Floyd, 2016).
- Apatania nigra* (Walker, 1852), Potamaria, ON;  
 male genitalia (Betten & Mosely, 1940; Schmid, 1953);  
 CT (Nelson & Downs, 1995);  
 ME (Hagen, 1873);  
 NF (Marshall & Larson, 1982);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter 2011);  
 ON (Walker, 1852; Harper, 1989);  
 PA (Masteller & Flint, 1992);  
 QC (Roy & Harper, 1979; Harper, 1989).
- Apatania shoshone* Banks, 1924, WY;  
 male & female genitalia (Nimmo, 1971);  
 historical biogeography (Malicky, 1990);  
 Canada (Schmid, 1955);

- AB (Nimmo, 1971);  
 AK (Ruiter, 1999);  
 BC (Nimmo & Scudder, 1978);  
 CO (Nimmo, 1971);  
 MT (Newell & Potter, 1973; Roemhild, 1982);  
 NT (Nimmo, 1986);  
 UT (Baumann & Unzicker, 1981);  
 WY (Banks, 1924; Nimmo, 1971; Ruiter & Lavigne, 1985; Ruiter, 1996).
- Apatania sorex* (Ross, 1941), Radema, OR;  
 BC (Schmid & Guppy, 1952);  
 CA (Denning, 1956; Erman, 1989; Myers & Resh, 1999; Resh & Mendez, 2022);  
 OR (Ross, 1941; Anderson, 1976; Anderson, Cooper, & Denning, 1982;  
 Anderson, Wisseman, & Courtney, 1984; Wisseman & Anderson, 1984);  
 UT (Baumann & Unzicker, 1981);  
 WA (Schmid, 1953; Blinn & Ruiter, 2013).
- Apatania stigmatella* (Zetterstedt, 1840), Phryganea, Lapland;  
*Apatania frigida* MacLachlan, 1867, Canada (Milne, 1935);  
*Apatania pallida* Hagen, 1861, Canada (Milne, 1935);  
 larva, case (Lepneva, 1966/71);  
 internal female genitalia (Unzicker, 1968);  
 male & female genitalia (Nimmo, 1971);  
 forewing, male genitalia (Marshall & Larson, 1982);  
 larva (Solem, 1985);  
 Boreal America (McLachlan, 1876);  
 Canada (Hagen, 1861);  
 AK (Nimmo, 1971; Kendrick & Huryn, 2014);  
 CO (Dodds & Hisaw, 1925);  
 MB (Nimmo, 1971; Lehmkuhl & Kerst, 1979; Flannagan & Flannagan, 1982;  
 Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruiter, Boyle, & Zhou, 2013);  
 ME (Procter, 1946; Blickle & Morse, 1966);  
 NF (Banks, 1908; Flint, 1960; Nimmo, 1971);  
 NT (McLachlan, 1867; Ulmer, 1907; Kimmins & Denning, 1951; Flint, 1960; Nimmo, 1971;  
 Nimmo, 1986);  
 ON (Nimmo, 1971);  
 QC (Nimmo, 1971; Roy & Harper, 1979; Harper, 1989;  
 Cordero, Sánchez-Ramírez, & Currie, 2017);  
 YT (Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997);  
 Lapland (Zetterstedt, 1840);  
 northern Palearctic region (Lepneva, 1966/71).
- Apatania tavala* (Denning, 1953), Radema, OR;  
 photo of larva in case (Anderson, 1976);  
 OR (Denning, 1953; Anderson, 1976).
- Apatania wallengreni* McLachlan, 1871, Finland, Lapland;  
 NT (Cordero, Sánchez-Ramírez, & Currie, 2017, larval record, identification cannot be confirmed  
 according to Webb, Cole, & Simmons, 2022);
- Apatania zonella* (Zetterstedt, 1840), Phryganea, Lapland;  
 larva, case (Lepneva, 1966/71);  
 wings, male & female genitalia (Nimmo, 1971);  
 female genitalia (Nielsen, 1980);  
 male wings, male & female genitalia (Schmid, 1980);  
 larva, female genitalia (Solem, 1985);  
 male genitalia (Houghton, 2012);  
 Canada (Schmid, 1954);  
 AB (Nimmo, 1971);  
 AK (Weber, 1949; Kendrick & Huryn, 2014);

BC (Nimmo, 1971; Nimmo & Scudder, 1978);  
CO (Herrmann, Ruiter, & Unzicker, 1986; Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
MI (DeWalt & South, 2015;  
Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
Houghton & Lardner, 2020;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MB (Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruiter, Boyle, & Zhou, 2013);  
MN (Nimmo, 1971; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MT (Nimmo, 1971; Roemhild, 1982);  
NT (Bruggerman, 1958; Corbet, 1966; Nimmo, 1971; Rigler, 1974; Lehmkuhl & Kerst, 1979;  
Nimmo, 1986; Pentinsaari, Blagoev, Hogg, et al, 2020;  
Cordero, Sánchez-Ramírez, & Currie, 2017);  
QC (Roy & Harper, 1979; Harper, 1989);  
WA (Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005)  
WI (Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hilsenhoff, 1995;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
WY (Ruiter, 1999);  
YT (Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997);  
Lapland (Zetterstedt, 1840);  
northern Palearctic region, Mongolia, Greenland (Lepneva, 1966/71);  
Greenland (Wiggins & Parker, 1997);  
Iceland (Gíslason, 1978; Gíslason, 1981).

Manophylax (Madeophylax) altus (Huryn & Wallace, 1984), Madeophylax, NC;  
NC (Huryn & Wallace, 1984; Morse et al, 1997;  
Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
WV (Morse et al, 1997).

Manophylax (Manophylax) alascensis Chuluunbat & Morse, 2010 (in Chuluunbat et al., 2010); AK  
AK (Chuluunbat & Morse, 2010).

Manophylax (Manophylax) annulatus Wiggins, 1973, ID;  
larva, case (Wiggins, 1977);  
ID (Wiggins, 1973; Wiggins, 1977).

Manophylax (Madeophylax) butleri Schuster, 1997, KY;  
larva, pupa, & male & female genitalia (Schuster, 1997);  
KY (Schuster, 1997; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
TN (Floyd, Moulton, Schuster, Parker, & Robinson, 2012);  
WV (Schuster, 1997; Tarter & Floyd, 2016).

Moselyana comosa Denning, 1949, OR;  
wings, male and female genitalia (Schmid, 1968);  
larva, pupa, case (Wiggins, 1973);  
larva, case (Wiggins, 1977);  
OR (Denning, 1949; Schmid, 1968; Wiggins, 1973; Wiggins, 1977; Anderson, 1976);  
WA (Schmid, 1968; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005).

Pedomoecus sierra Ross, 1947, CA;  
larva, case (Wiggins, 1977);  
male genitalia (Schmid, 1980);  
wings, male & female genitalia (Schmid, 1980);  
male genitalia (Denning, 1983);  
AB (Wiggins, 1977; Schmid, 1980; Denning, 1983);  
BC (Wiggins, 1977; Schmid, 1980; Denning, 1983);

CA (Ross, 1947; Denning, 1956; Denning, 1983; Wiggins, 1977; Schmid, 1980;  
Resh & Mendez, 2022);  
OR (Anderson, 1967; Anderson, 1976; Wiggins, 1977;  
Anderson, Cooper, & Denning, 1982; Denning, 1983);  
WA (Schmid, 1955; Wiggins, 1977; Smith, 1981; Denning, 1983;  
Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013).

Beraeidae (1 genus, 3 species) —Spring-loving Caddisflies

*Beraea fontana* Wiggins, 1954, ON;  
internal female genitalia (Unzicker, 1968);  
larva, case (Wiggins, 1977);  
head, male & female wings, male & female genitalia (Schmid, 1980; Schmid, 1983);  
CT (Nelson & Downs, 1995; Flint, 2017);  
DE (Hamilton, 1985);  
ON (Wiggins, 1954; Wiggins, 1977; Schmid, 1980; Schmid, 1983; Williams & Williams, 1987);  
PA (Hamilton, 1985; Masteller & Flint, 1992);  
VA (Flint, 2017);  
VT (Flint, 2017).  
*Beraea gorteba* Ross, 1944, GA;  
larva, pupa, photo of case (Hamilton, 1985);  
GA (Ross, 1944; Hamilton, 1985).  
*Beraea nigritta* Banks, 1897, NY;  
NC (Stoneburner, 1977, unconfirmed record according to Zhou et al, 2011);  
DE (Lake, 1984);  
NJ (Smith, 1910);  
NY (Banks, 1897; Betten, 1934)  
PA (Masteller & Flint, 1992).

Brachycentridae (5 genera, 36 species) —Humpless Caddisflies

*Adicropheps hitchcocki* Flint, 1965, CT;  
larva, case (Wiggins, 1977);  
CT (Flint, 1965; Nelson & Downs, 1995);  
PA (Wiggins, 1977; Masteller & Flint, 1992);  
MD (Wiggins, 1977; Bordelais & Duffield, 1999);  
NY (Myers, Kondratieff, Mihuc, & Ruiter 2011);  
VA (Parker & Voshell, 1981; Flint, Hoffman, & Parker, 2008; Flint, 2014; Flint, 2017);  
WV (Griffith & Perry, 1992; Tarter & Floyd, 2016).

*Amiocentrus aspilus* (Ross, 1938), *Brachycentrus* (*Amiocentrus*), WY;

*Oligoplectrum californicum* Ling, 1938, CA (Ross, 1944);  
larva, case (Wiggins, 1965; Wiggins, 1977);  
photos of larvae in cases (Anderson, 1976);  
wings, palps, male & female genitalia (Schmid, 1983);  
phallus (Denning, 1983);  
BC to NV, CO to MT (Schmid, 1983);  
BC (Wiggins, 1977; Nimmo & Scudder, 1978; Schmid, 1983; Williams & Williams, 1987);  
CA (Denning, 1956; Resh & Sorg, 1978; McElravy & Resh, 1987; Erman, 1989; Givens, 2014;  
Resh & Mendez, 2022);  
CO (Denning, 1948; Schmid, 1983; Herrmann, Ruiter, & Unzicker, 1986;  
Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
ID (Newell & Minshall, 1977; Wiggins, 1977);  
MT (Ross, 1938; Newell, 1970; Newell & Potter, 1973; Roemhild, 1982; Schmid, 1983;  
Stagliano, 2020);  
NV (Schmid, 1983; Ruiter, Baumann, & Flint, 2014);  
OR (Anderson, 1967; Anderson, 1976; Wiggins, 1977; Anderson, Cooper, & Denning, 1982);

UT (Ross, 1938; Baumann & Unzicker, 1981);  
WA (Newell, Ruiter, & Streng, 2001; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005;  
Blinn & Ruiter, 2013; Morley, Foley, Duda et al, 2020);  
WY (Ross, 1938; Wiggins, 1977; Ruiter & Lavigne, 1985).

*Brachycentrus* (*Oligoplectrodes*) *americanus* (Banks, 1899), *Oligoplectrum*, NH;  
*Oligoplectrodes* *potanini* Martynov, 1910, Yamal, Siberia, China (Schmid, 1983;  
Wiggins, Tani, & Tanida, 1985);  
*Brachycentrus* *similis* Banks, 1907, CO (Ross, 1938);  
photos of larval foreleg, mandible (Mecom & Cummins, 1964);  
male genitalia (Denning, 1971; Houghton, 2012);  
larva, case (Lepneva, 1966/71; Wiggins, 1977);  
adult meso- and metathorax (Wimmer, 1979);  
male & female genitalia (Schmid, 1983);  
male & female genitalia (Denning, 1983);  
larva, male genitalia (Flint, 1984);  
female head (Wiggins, Tani, & Tanida, 1985);  
photos of larva & case (Ruiter, Boyle, & Zhou, 2013; Chatila-Amos, 2021);  
photo of adult (Morse, Frandsen, Graf, & Thomas, 2019);  
AK to NM, VT to TN (Schmid, 1983);  
AB (Schmid, 1983; Flint, 1984);  
AK (Schmid, 1983; Flint, 1984; Hershey & Hiltner, 1988; Irons, 1988; Houghton, 2001;  
Blinn & Ruiter, 2009a; Kendrick & Huryn, 2014);  
AZ (Flint, 1984; Ruiter, 1996; Houghton, 2001; Blinn & Ruiter, 2006);  
BC (Nimmo & Scudder, 1978; Nimmo & Scudder, 1983; Schmid, 1983; Flint, 1984);  
CA (Flint, 1984; Resh & Sorg, 1978; Leland, Fend, Carter, & Mahood, 1986; Eрман, 1989;  
Givens, 2014; Resh & Mendez, 2022);  
CO (Banks, 1907; Mecom, 1970; Canton & Ward, 1981; Stanford & Ward, 1981; Flint, 1984;  
Hermann, Ruiter, & Unzicker, 1986; Ward, 1986; Ruiter, 1996; Ruse & Herrmann, 2000;  
Zuellig, Kondratieff, Ruiter, & Thorp, 2006;  
Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
FL (Denning, 1971, an error according to Flint, 1984);  
IA (Blinn, Ruiter, & Flint, 2009;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
ID (Newell & Minshall, 1977; Wiggins, 1977; Flint, 1984);  
MA (Flint, 1984; Whitmore 2008);  
MB (Flannagan & Flannagan, 1982; Schmid, 1983; Flint, 1984;  
Cobb, Flannagan, & Friesen, 1984;  
Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruiter, Boyle, & Zhou, 2013;  
Chatila-Amos, 2021);  
ME (Flint, 1984; Bilger, 1986);  
MI (Ellis, 1962; Petersen & Cummins, 1974; Flint, 1984; Yanoviak & McCafferty, 1996;  
Houghton, Brandin, & Brakel, 2011; Wright, Pytel, & Houghton, 2013; Houghton, 2015;  
Houghton, 2016;  
Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
Houghton & Lardner, 2020; Houghton, 2022;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MN (Lager, Johnson, Williams, & McCullough, 1979; Flint, 1984;  
Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton & Holzenthal, 2010;  
Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MT (Newell, 1970; Newell & Potter, 1973; Roemhild, 1982; Flint, 1984; Stagliano, 2020);  
NB (Schmid, 1983; Flint, 1984);  
ND (Harris, Lago, & Carlson, 1980;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

NH (Banks, 1899; Flint, 1984);  
 NM (Schmid, 1983; Flint, 1984; Vieira, Kondratieff, Ruiters, & Durfee, 2009);  
 NT (Flint, 1984; Nimmo, 1986; Cordero, Sánchez-Ramírez, & Currie, 2017);  
 NV (Flint, 1984; Ruiters, Baumann, & Flint, 2014);  
 NY (Flint, 1984; McCabe, 1986; Myers, Kondratieff, Mihuc, & Ruiters 2011);  
 ON (Schmid, 1983; Flint, 1984);  
 OR (Anderson, 1967; Anderson, 1976; Anderson, Cooper, & Denning, 1982; Flint, 1984);  
 QC (Roy & Harper, 1979; Schmid, 1983; Flint, 1984);  
 SK (Schmid, 1983; Flint, 1984);  
 TN (Edwards, 1966, dubious according to Etnier, Baxter, Fraley, & Parker, 1998; Schmid, 1983);  
 TX (Edwards, 1973; unconfirmed or dubious according to Moulton & Stewart, 1997);  
 UT (Baumann & Unzicker, 1981; Denning, 1983; Winget, 1984);  
 VT (Wimmer, 1979; Schmid, 1983; Flint, 1984; Bilger, 1986);  
 WA (Flint, 1984; Anderson & Wisseman, 1987; Ruiters, Kondratieff, Lechleitner, & Zuellig, 2005;  
 Blinn & Ruiters, 2013; Morley, Foley, Duda et al, 2020);  
 WI (Mecom & Cummins, 1964; Hilsenhoff et al, 1972;  
 Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
 Shapas & Hilsenhoff, 1976; Flint, 1984; Hilsenhoff, 1995  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WY (Ross, 1944; Gore, 1980; Flint, 1984; Ruiters & Lavigne, 1985;  
 Ruiters, 1996; Perez-Cruet, 2020);  
 YT (Flint, 1984; Wiggins & Parker, 1997);  
 China, Siberia, Yamal (Martynov, 1910);  
 Japan (Yamanouchi, 1980; Wiggins, Tani, & Tanida, 1985);  
 Siberia, China, Mongolia (Fischer, 1970; Wiggins, Tani, & Tanida, 1985);  
 Siberia, Outer Mongolia (Lepneva, 1966/71; Schmid, 1983).

*Brachycentrus* (*Sphinctogaster*) *appalachia* Flint, 1984, WV;  
 female genitalia (Wrege & Morse, 2019);  
 GA (Flint, 1984);  
 MD (Flint, 1984);  
 ME (Flint, 1984; Bilger, 1986);  
 NB (Flint, 1984);  
 NC (Flint, 1984; Lenat, Ruiters, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Flint, 1984);  
 NJ (Flint, 1984);  
 NS (Flint, 1984);  
 NY (Flint, 1984; Zhou et al., 2011; Myers, Kondratieff, Mihuc, & Ruiters 2011; Tozer, 2018);  
 ON (Flint, 1984);  
 PA (Flint, 1984; Masteller & Flint, 1992);  
 SC (Flint, 1984; Wrege & Morse, 2019);  
 TN (Flint, 1984; Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Flint, 1984; Flint, Hoffman, & Parker, 2008);  
 WV (Flint, 1984; Tarter, 1990; Tarter & Floyd, 2016).

*Brachycentrus* (*Sphinctogaster*) *chelatus* Ross, 1947, GA;  
 larva, male genitalia (Flint, 1984); female genitalia (Wrege & Morse, 2019);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Flint, 1984; Harris & Lago, 1990; Harris, 1990; Harris, O'Neil, & Lago, 1991);  
 FL (Flint, 1984; Gordon, 1984; Scheiring, 1985;  
 Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004;  
 Denson, Rasmussen, & Harris, 2016);  
 GA (Ross, 1947; Flint, 1984);  
 NC (Lenat & Penrose, 1987; Lenat, Ruiters, Parker, Robinson, Beaty, & Flint, 2010);  
 SC (Morse, Chapin, Herlong, & Harvey, 1980; Flint, 1984; Wrege & Morse, 2019).

*Brachycentrus* (*Sphinctogaster*) *echo* (Ross, 1947), *Oligoplectrum*, CA;  
 larva, case (Wiggins, 1965; Wiggins, 1977);

- larva, male genitalia (Flint, 1984);  
 CA (Ross, 1947; Wiggins, 1977; Flint, 1984; Resh & Mendez, 2022);  
 NV (Ruiter, Baumann, & Flint, 2014);  
 UT (Wiggins, 1977; Baumann & Unzicker, 1981; Flint, 1984).
- Brachycentrus* (*Sphinctogaster*) *etowahensis* Wallace, 1971, GA;  
 larva, case, male genitalia (Flint, 1984); female genitalia (Wrege & Morse, 2019);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 GA (Wallace, 1971; Flint, 1984; Morse et al, 1997; Wrege & Morse, 2019);  
 NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 TN (Etnier & Schuster, 1979; Flint, 1984; Morse et al, 1997;  
 Etnier, Baxter, Fraley, & Parker, 1998).
- Brachycentrus* (*Sphinctogaster*) *fuliginosus* Walker, 1852, ON;  
 male & female genitalia (Schmid, 1983);  
 male genitalia (Corbet, Schmid, & Augustin, 1966; Flint, 1984);  
 MB (Flannagan & Flannagan, 1982; Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010;  
 Ruiter, Boyle, & Zhou, 2013);  
 MI (Leonard and Leonard, 1949;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Denning, 1937; Etnier, 1965;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Walker, 1852; Schmid, 1983; Flint, 1984);  
 QC (Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1975; Roy & Harper, 1979;  
 Schmid, 1980; Schmid, 1983; Flint, 1984);  
 WI (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Brachycentrus* (*Sphinctogaster*) *incanus* Hagen, 1861, DC;  
 female genitalia (Flint, 1966; Wrege & Morse, 2019);  
 male & female genitalia (Schmid, 1983);  
 larva, male genitalia (Flint, 1984);  
 DC (Hagen, 1861; Schmid, 1983);  
 MD (Schmid, 1983; Flint, 1984);  
 MI (Schmid, 1983;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Lenat & Penrose, 1987; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NJ (Smith, 1910; Schmid, 1983; Flint, 1984);  
 NY (Flint, 1984; Conn & Quinn, 1995; Tozer, 2018);  
 ON (Schmid, 1983; Flint, 1984);  
 PA (Flint, 1984; Masteller & Flint, 1992);  
 QC (Schmid, 1983; Flint, 1984);  
 VA (Flint, 1984; Flint, Hoffman, & Parker, 2008);  
 WI (Flint, 1984; Hilsenhoff, 1985; Hilsenhoff, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Brachycentrus* (*Sphinctogaster*) *lateralis* (Say, 1823), Phryganea, IL;  
*Sphinctogaster lutescens* Provancher, 1877, QC (Milne, 1936);  
 male genitalia (Corbet, Schmid, & Augustin, 1966);  
 male & female genitalia (Schmid, 1983);  
 larva, male genitalia (Flint, 1984);  
 larva, male genitalia (Moulton & Stewart, 1996);  
 female genitalia (Wrege & Morse, 2019);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AR (Moulton & Stewart, 1996);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Say, 1823; Schmid, 1983; Flint, 1984; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

KY (Resh, 1975; Schmid, 1983; Moulton & Stewart, 1996;  
Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MD (Flint, 1984; Moulton & Stewart, 1996);

ME (Bilger, 1986; Moulton & Stewart, 1996);

MI (Schmid, 1983; Flint, 1984; Davis, Hudson, & Armitage, 1991; Moulton & Stewart, 1996;  
Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MO (Moulton & Stewart, 1996; Moulton & Stewart, 1996; Ferro & Sites, 2007;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

NC (Lenat & Penrose, 1987; Moulton & Stewart, 1996;  
Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);

NH (Schmid, 1983; Moulton & Stewart, 1996);

NY (Banks, 1905; Bilger, 1986; Moulton & Stewart, 1996; Tozer, 2018);

ON (Schmid, 1983; Flint, 1984; Moulton & Stewart, 1996);

PA (Schmid, 1983; Flint, 1984; Masteller & Flint, 1992; Moulton & Stewart, 1996);

QC (Provancher, 1877; Ross, 1944; Corbet, Schmid, & Augustin, 1966; Roy & Flint, 1979;  
Roy & Harper, 1979; Schmid, 1980; Schmid, 1983; Flint, 1984;  
Moulton & Stewart, 1996);

SC (Flint, 1984; Moulton & Stewart, 1996);

TN (Edwards, 1966; Etnier & Schuster, 1979; Schmid, 1983; Flint, 1984;  
Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998; Zhou et al., 2011);

VA (Parker & Voshell, 1981; Schmid, 1983; Flint, 1984; Moulton & Stewart, 1996;  
Flint, Hoffman, & Parker, 2008; Zhou et al., 2011);

VT (Bilger, 1986; Moulton & Stewart, 1996);

WI (Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hilsenhoff, 1985; Hilsenhoff, 1995;  
Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

WV (Flint, 1984; Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016).

*Brachycentrus* (*Sphinctogaster*) *lunatus* Harrington & Morse, 2004, SC;  
female genitalia (Wrege & Morse, 2019);  
NC (Harrington & Morse, 2004; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010;  
Wrege & Morse, 2019);  
SC (Harrington & Morse, 2004).

*Brachycentrus* (*B.*) *nigrosoma* (Banks, 1905), *Sphinctogaster*, NY;  
*Brachycentrus adelus* Ross, 1947, PA (Flint, 1984);  
*Brachycentrus notabulus* Milne, 1936, VA (Flint, 1966; Flint, 1984);  
female genitalia (Flint, 1966; Wrege & Morse, 2019);  
male genitalia (Denning, 1971);  
larva, male genitalia (Flint, 1984);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
AL (Harris, 1990; Harris, O'Neil, & Lago, 1991);  
GA (Flint, 1984);  
KY (Floyd & Schuster, 1990; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MD (Flint, 1984; Flint, 2008; Zhou et al., 2011);  
ME (Flint, 1984);  
NC (Flint, 1984; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
NY (Banks, 1905);  
OH (Bolton, Macy, DeWalt, & Jacobus, 2019;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
PA (Ross, 1947; Masteller & Flint, 1992);  
SC (Morse, Chapin, Herlong, & Harvey, 1980; Flint, 1984; Floyd & Morse, 1993);



TN (Flint, 1984; Etnier, Baxter, Fraley, & Parker, 1998; Zhou et al., 2011);  
 VA (Milne, 1936; Parker & Voshell, 1981; Flint, 1984; Flint, Hoffman, & Parker, 2008;  
 Zhou et al., 2011; Flint, 2011);  
 WV (Flint, 1984; Tarter, 1990; Tarter & Floyd, 2016).  
*Brachycentrus* (*Sphinctogaster*) *numerosus* (Say, 1823), Phryganea, IL;  
 male genitalia (Wallace, 1971; Houghton, 2012);  
 head, male & female wings, male & female maxillary palps, labial palp, midtibia,  
 male & female genitalia (Schmid, 1980; Schmid, 1983);  
 larva, case, wings, adult head, pro & mesonota, male genitalia (Flint, 1984);  
 female head (Wiggins, Tani, & Tanida, 1985);  
 larva, male genitalia (Moulton & Stewart, 1996);  
 female genitalia (Wrege & Morse, 2019);  
 QC, ON, MB south to IN, TN (Schmid, 1983);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Flint, 1984; Harris, Lago, & O'Neil, 1984; Harris, 1987; Harris & Lago, 1990;  
 Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Hicks & Haynes, 2000a);  
 AR (Moulton & Stewart, 1996; Bowles, Cheri, Usrey, & Williams, 2020);  
 CO (Myers & Younghanz, 2007);  
 CT (Flint, 1984; Nelson & Downs, 1995; Moulton & Stewart, 1996);  
 DE (Flint, 1984; Lake, 1984; Moulton & Stewart, 1996);  
 FL (Harris, Lago, & Scheiring, 1982; Pescador, Rasmussen, & Harris, 1995, 2004;  
 Moulton & Stewart, 1996);  
 GA (Murray-Stoker, Batzer, Murray-Stoker, & McHugh, 2020);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Say, 1823; Flint, 1984; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1944; Waltz & McCafferty, 1983; Schmid, 1983; Flint, 1984; Bright, 1986;  
 Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton, Schuster, & DuBois, 1983; Flint, 1984; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Moulton & Stewart, 1996;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Holzenthal, Harris, & Lago, 1982; Flint, 1984; Moulton & Stewart, 1996);  
 MA (Flint, 1984; Moulton & Stewart, 1996);  
 MB (Flannagan, 1978; Flannagan & Flannagan, 1982; Schmid, 1983; Flint, 1984;  
 Moulton & Stewart, 1996);  
 MD (Flint, 1984; Moulton & Stewart, 1996);  
 ME (Mingo & Gibbs, 1980; Flint, 1984; Bilger, 1986; Moulton & Stewart, 1996;  
 Huryn & Harris, 2000);  
 MI (Ellis, 1962; Flint, 1984; Moulton & Stewart, 1996; Yanoviak & McCafferty, 1996;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Lager, Johnson, Williams, & McCullough, 1979; Flint, 1984;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Flint, 1984; Mathis & Bowles, 1992; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996);  
 NC (Flint, 1984; Armitage & Tennessen, 1984; Moulton & Stewart, 1996;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Flint, 1984; Moulton & Stewart, 1996);  
 NJ (Flint, 1984; Moulton & Stewart, 1996);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter 2011);

OH (Bolton, 2011; Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
ON (Schmid, 1983; Flint, 1984; Moulton & Stewart, 1996);  
PA (Flint, 1984; Masteller & Flint, 1992; Moulton & Stewart, 1996);  
QC (Roy & Harper, 1979; Schmid, 1983; Moulton & Stewart, 1996);  
SC (Morse, Chapin, Herlong, & Harvey, 1980; Flint, 1984; Moulton & Stewart, 1996);  
TN (Etnier & Schuster, 1979; Schmid, 1983; Flint, 1984; Moulton & Stewart, 1996;  
Etnier, Baxter, Fraley, & Parker, 1998);  
TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);  
VA (Parker & Voshell, 1981; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2008);  
VT (Bilger, 1986);  
WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Flint, 1984;  
Lillie & Hilsenhoff, 1992; Hilsenhoff, 1995; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
WV (Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016).

*Brachycentrus (Sphinctogaster) occidentalis* Banks, 1911, BC;  
internal female genitalia (Unzicker, 1968);  
male & female genitalia (Schmid, 1983);  
male & female genitalia (Denning, 1983);  
larva, male genitalia (Flint, 1984);  
male genitalia (Houghton, 2012);  
photos of larvae and egg mass (Miller, Schroer, Fleri, & Kennedy, 2020);  
AK to NV (Schmid, 1983);  
AB (Schmid, 1983; Flint, 1984);  
AK (Schmid, 1983; Flint, 1984);  
AZ (Flint, 1984; Houghton, 2001; Blinn & Ruiter, 2006; Blinn & Ruiter, 2009a);  
BC (Banks, 1911; Ross, 1938; Ross & Spencer, 1952; Nimmo & Scudder, 1978;  
Schmid, 1983; Flint, 1984);  
CA (Resh & Mendez, 2022);  
CO (Flint, 1984; Herrmann, Ruiter, & Unzicker, 1986; Ruse & Herrmann, 2000;  
Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
ID (Smith, 1969; Newell & Minshall, 1977; Flint, 1984);  
MB (Schmid, 1983; Flint, 1984; Cobb, Flannagan, & Friesen, 1984;  
Wetmore, Mackay, & Newbury, 1990);  
ME (Bilger, 1986);  
MI (Petersen & Cummins, 1974);  
MN (Etnier, 1965; Flint, 1984; Houghton, Holzenthal, Monson, & MacLean, 2001;  
Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MT (Newell, 1970; Newell & Potter, 1973; Roemhild, 1982; Flint, 1984; Stagliano, 2020);  
NE (Blint, 1984;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NM (Flint, 1984; Vieira, Kondratieff, Ruiter, & Durfee, 2009);  
NT (Schmid, 1983; Flint, 1984; Nimmo, 1986);  
NV (Schmid, 1983; Ruiter, Baumann, & Flint, 2014);  
OK (Flint, 1984; Bowles & Mathis, 1992);  
OR (Anderson, 1976; Denning, 1983; Flint, 1984);  
SK (Schmid, 1983; Flint, 1984);  
UT (Baumann & Unzicker, 1981; Winget, 1984; Flint, 1984;  
Miller, Schroer, Fleri, & Kennedy, 2020);  
WA (Flint, 1984);  
WI (Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Shapas & Hilsenhoff, 1976;  
Karl & Hilsenhoff, 1979; Flint, 1984; Hilsenhoff, 1995;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
WY (Vincent, 1967; Flint, 1984; Ruiter & Lavigne, 1985);

- YT (Schmid, 1983).
- Brachycentrus* (*Sphinctogaster*) *solomoni* Flint, 1984, NY;  
 female genitalia (Wrege & Morse, 2019);  
 NY (Flint, 1984; Wrege & Morse, 2019);  
 PA (Masteller & Flint, 1992);  
 QC (Flint, 1984);  
 VA (Flint, 1984; Flint, Hoffman, & Parker, 2008);  
 VT (Flint, 1984);  
 WV (Flint, 1984; Tarter, 1990; Tarter & Floyd, 2016; Wrege & Morse, 2019).
- Brachycentrus* (*Sphinctogaster*) *spinae* Ross, 1948, TN;  
 larva, case, male genitalia (Flint, 1984);  
 female genitalia (Wrege & Morse, 2019);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 GA (Flint, 1984);  
 NC (Flint, 1984; Armitage & Tennessen, 1984;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011;  
 Wrege & Morse, 2019);  
 SC (Flint, 1984);  
 TN (Ross, 1948; Flint, 1984; Etnier, Baxter, Fraley, & Parker, 1998; Zhou et al., 2011);  
 VA (Flint, 1984; Flint, Hoffman, & Parker, 2008).
- Eobrachycentrus gelidae* Wiggins, 1965, OR;  
 photo of case (Anderson, 1976);  
 larva, case (Wiggins, 1977);  
 male & female wings, male maxillary palp, male & female genitalia (Schmid, 1980);  
 male & female wings, foretarsus, hindtarsus, male & female palps, male & female genitalia  
 (Schmid, 1983);  
 BC (Wiggins, 1977; Nimmo & Scudder, 1978; Schmid, 1980;  
 Schmid, 1983; Williams & Williams, 1987);  
 OR (Wiggins, 1965; Anderson, 1976; Wiggins, 1977; Schmid, 1980; Schmid, 1983);  
 WA (Wiggins, 1977; Schmid, 1980; Schmid, 1983;  
 Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005).
- Micrasema alexanderi* Denning, 1948, WY;  
 UT (Baumann & Unzicker, 1981);  
 WY (Denning, 1948; Ruiter & Lavigne, 1985).
- Micrasema arizonica* Ling, 1938, AZ;  
 AZ (Ling, 1938; Blinn & Ruiter, 2006).
- Micrasema bacro* Ross, 1938, OR;  
 male genitalia (Schmid, 1980);  
 male & female genitalia (Schmid, 1983);  
 AB (Chapin, 1978; Schmid, 1983);  
 AK (Vineyard, 1982);  
 AZ (Moulton, Stewart, & Young, 1994; Blinn & Ruiter, 2006);  
 BC (Ross and Spencer, 1952; Nimmo & Scudder, 1978; Schmid, 1983;  
 Williams & Williams, 1987);  
 CA (Chapin, 1978; Schmid, 1983; Erman, 1989; Erman & Erman, 1990; Erman, 1998;  
 Myers & Resh, 1999; Givens, 2014; Resh & Mendez, 2022);  
 CO (Herrmann, Ruiter, & Unzicker, 1986; Ward, 1987;  
 DeWalt, Stewart, Moulton, & Kennedy, 1994; Ruiter, 1996; Ruse & Herrmann, 2000;  
 Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 ID (Chapin, 1978);  
 MT (Newell & Potter, 1973; Chapin, 1978; Roemhild, 1982; Schmid, 1983; Stagliano, 2020);  
 NM (Vieira, Kondratieff, Ruiter, & Durfee, 2009);  
 NV (Ruiter, Baumann, & Flint, 2014);

- OR (Ross, 1938; Anderson, 1967; Anderson, 1976;  
Anderson & Wold, 1972; Anderson, Cooper, & Denning, 1982;  
Schmid, 1983; Anderson, Wisseman, & Courtney, 1984);
- SD (Chapin, 1978; Ruiters, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- SK (Chapin, 1978);
- UT (Chapin, 1978; Baumann & Unzicker, 1981);
- WA (Chapin, 1978; Smith, 1981; Schmid, 1983; Anderson & Wisseman, 1987;  
Ruiters, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiters, 2013);
- WY (Chapin, 1978; Ruiters & Lavigne, 1985);
- YT (Schmid, 1983; Nimmo & Wickstrom, 1984;  
Wiggins & Parker, 1997).
- Micrasema bennetti* Ross, 1947, WV;  
NC/SC (Unzicker, Resh, & Morse, 1982);  
GA (Chapin, 1978);  
KY (Resh, 1975; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NC (Chapin, 1978; Lenat, Ruiters, Parker, Robinson, Beaty, & Flint, 2010);  
SC (Chapin, 1978);  
TN (Etnier, Baxter, Fraley, & Parker, 1998; Ruiters, 2000);  
VA (Chapin, 1978; Parker & Voshell, 1981; Flint, Hoffman, & Parker, 2008; Zhou et al., 2011);  
WV (Ross, 1947; Tarter & Floyd, 2016).
- Micrasema burksi* Ross and Unzicker, 1965, TN;  
NC/SC (Unzicker, Resh, & Morse, 1982);  
GA (Ross and Unzicker, 1965);  
NC (Chapin, 1978; Morse, Hamilton, & Hoffman, 1989;  
Lenat, Ruiters, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);  
NY (Chapin, 1978);  
SC (Chapin, 1978; Morse, Hamilton, & Hoffman, 1989);  
TN (Ross and Unzicker, 1965; Etnier, Baxter, Fraley, & Parker, 1998);  
VA (Chapin, 1978; Flint, Hoffman, & Parker, 2008).
- Micrasema charonis* Banks, 1914, NC;  
male genitalia (Ross, 1944);  
male & female genitalia (Schmid, 1983);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
AL (Harris & Lago, 1990; Harris, 1990; Harris, O'Neil, & Lago, 1991);  
CT (Nelson & Downs, 1995);  
KY (Houp, 1999; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MA (Neves, 1979);  
MD (Chapin, 1978);  
MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiters, Bright, Hudson, & Armitage, 2018;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NB (Schmid, 1983);  
NC (Banks, 1914; Schmid, 1983; Armitage & Tennessen, 1984;  
Morse, Hamilton, & Hoffman, 1989; Floyd, Morse, & Harris, 1997;  
DeWalt, Jacobus, & McCafferty, 2007;  
Lenat, Ruiters, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);  
NF (Marshall & Larson, 1982);  
NS (Schmid, 1983);  
NY (Chapin, 1978; Myers, Kondratieff, Mihuc, & Ruiters 2011);  
ON (Cordero, Sánchez-Ramírez, & Currie, 2017);  
PA (Chapin, 1978; Masteller & Flint, 1992);  
QC (Roy & Harper, 1975; Roy & Harper, 1979; Schmid, 1983);  
SC (Chapin, 1978; Morse, Hamilton, & Hoffman, 1989);

Floyd, Morse, & Harris, 1997);  
 TN (Denning, 1948; Edwards, 1966; Etnier & Schuster, 1979;  
 Schmid, 1983; Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Chapin, 1978; Parker & Voshell, 1981; Schmid, 1983; Flint, Hoffman, & Parker, 2008;  
 Zhou et al., 2011);  
 VT (Wimmer, 1979);  
 WV (Chapin, 1978; Tarter & Floyd, 2016).

*Micrasema dimicki* (Milne, 1936), Brachycentrus, OR;  
 larva, case (Wiggins, 1965);  
 male genitalia (Flint, 1966);  
 wings, male & female genitalia (Schmid, 1983);  
 CA (Resh & Mendez, 2022);  
 OR (Milne, 1936; Anderson & Wold, 1972; Anderson, 1976;  
 Schmid, 1983; Anderson & Hansen, 1987);  
 WA (Schmid, 1983; Ruitter, Kondratieff, Lechleitner, & Zuellig, 2005).

*Micrasema diteris* Ross, 1947, UT;  
 CA (Resh & Sorg, 1978; Givens, 2014; Resh & Mendez, 2022);  
 NV (Ruitter, Baumann, & Flint, 2014);  
 OR (Anderson, 1976);  
 UT (Ross, 1947; Baumann & Unzicker, 1981).

*Micrasema etra* Denning, 1948, WY;  
 WY (Denning, 1948).

*Micrasema florida* Chapin & Morse, 2013, Florida;  
 male & female abdominal terminalia, wings, larva, & case (Chapin & Morse, 2013);  
 AL (Chapin, 1978; Harris, O'Neil, & Lago, 1991; Chapin & Morse, 2013; Harris & O'Neil, 2015);  
 FL (Chapin, 1978; Harris et al, 1982; Scheiring, 1985;  
 Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004).

*Micrasema gelidum* McLachlan, 1876, Finland;  
*Micrasema gelidum* *prospecies canusa* Botosaneanu, 1990, ON;  
*Micrasema gelidum* *prospecies extremum* Botosaneanu, 1990, Chukotka Peninsula [NE Siberia];  
*Micrasema gelidum* *prospecies gelidum* Botosaneanu, 1990, Finland;  
*Micrasema gelidum* *prospecies gentile* McLachlan, 1880 (Botosaneanu, 1990);  
*Micrasema kluane* Ross and Morse, 1973, YT (*Botosaneanu, 1990, as synonym of M g* *prospecies gelidum*);  
*Micrasema scissum* McLachlan, 1884, Behring Strait  
 (*Botosaneanu, 1990, as synonym of M g* *prospecies gentile*);  
*Micrasema sibiricum* Martynov, 1924, Minoussinsk [S central Siberia] (*Botosaneanu, 1990*);  
*Micrasema subscissum* Martynov, 1926, Olonetz [NW USSR] (*Martynov, 1935*;  
*Botosaneanu, 1990*);  
 male & female genitalia (Schmid, 1983);  
 male genitalia (Martynov, 1935, Kimmins & Denning, 1951; Botosaneanu, 1970;  
 Botosaneanu, 1990; Houghton, 2012);  
 AB (Schmid, 1983);  
 AK (Ross & Morse, 1973; Schmid, 1983; Botosaneanu, 1990);  
 IA (Botosaneanu, 1990; Blinn, Ruitter, & Flint, 2009;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MB (Chapin, 1978; Schmid, 1983; Cobb, Flannagan & Friesen, 1984;  
 Botosaneanu, 1990);  
 MI (Chapin, 1978;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton & Holzenthal, 2010;  
 Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NT (Schmid 1983; Nimmo, 1986; Cordero, Sánchez-Ramírez, & Currie, 2017, as *M. canusa*);  
 ON (Chapin, 1978; Botosaneaun, 1990);

- QC (Schmid, 1983);  
 SK (Chapin, 1978; Schmid, 1983);  
 WI (Chapin, 1978; Hilsenhoff, 1981; Steven & Hilsenhoff, 1984;  
     Botosaneanu, 1990; Hilsenhoff, 1995; Hilsenhoff, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 YT (Ross and Morse, 1973; Schmid, 1983; Nimmo & Wickstrom, 1984;  
     Botosaneanu, 1990; Wiggins & Parker, 1997; Kendrick & Huryn, 2014);  
 Finland (McLachlan, 1876; Botosaneanu, 1990);  
 Behring Strait (McLachlan, 1884);  
 Siberia (Martynov, 1924);  
 USSR (Martynov, 1926);  
 circumboreal (Schmid, 1983);  
 Norway, Finland, Siberia (Botosaneanu, 1990).
- Micrasema onisca* Ross, 1947, CA;  
 female genitalia (Ruiter & Blinn, 2009);  
 AZ (Ruiter, 1999; Houghton, 2001; Blinn & Ruiter, 2006);  
 CA (Ross, 1947; Resh & Mendez, 2022);  
 NV (Ruiter, Baumann, & Flint, 2014);  
 OR (Anderson, 1976; Anderson, Cooper, & Denning, 1982);  
 UT (Ross, 1947; Baumann & Unzicker, 1981).
- Micrasema oregona* Denning, 1983, OR;  
 OR (Denning, 1983; Anderson, Cooper, & Denning, 1982).
- Micrasema ozarkana* Ross and Unzicker, 1965, MO;  
 larva, male thorax & genitalia (Moulton & Stewart, 1996);  
 male abdominal segment IX, larval metathoracic tarsus & claw (Chapin & Morse, 2013);  
 AR (Ross and Unzicker, 1965; Unzicker, Aggus & Warren, 1970;  
     Bowles & Mathis, 1989; Moulton & Stewart, 1996);  
 MO (Ross and Unzicker, 1965; Mathis & Bowles, 1992;  
     Moulton & Stewart, 1996; Ferro & Sites, 2007;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Micrasema rickeri* Ross and Unzicker, 1965, GA;  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 GA (Ross and Unzicker, 1965);  
 NC (Chapin, 1978; DeWalt, Jacobus, & McCafferty, 2007;  
     Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);  
 SC (Chapin, 1978);  
 TN (Etnier, Baxter, Fraley, & Parker, 1998; Ruiter, 2000).
- Micrasema rusticum* (Hagen, 1868), *Dasystema*, SK;  
*Micrasema falcatum* Banks, 1914, VA (Ross, 1938);  
 internal female genitalia (Unzicker, 1968);  
 male & female foretarsi, male & female palps, male & female wings,  
     male & female genitalia (Schmid, 1980);  
 male & female genitalia (Schmid, 1983);  
 larva & male genitalia (Moulton & Stewart, 1996);  
 male genitalia (Houghton, 2012);  
 NS, QC, ON, MB, SK, south to GA & OK (Schmid, 1983);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris, Lago, & O'Neil, 1984; Harris, 1987;  
     Harris & Lago, 1990; Frazer, Harris, & Ward, 1991;  
     Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996;  
     Hicks & Haynes, 2000a);  
 AR (Unzicker, Aggus, & Warren, 1970; Bowles & Mathis, 1989;  
     Moulton & Stewart, 1996; Etnier, 2010);  
 FL (Pescador, Rasmussen, & Harris, 1995, 2004; Denson, Rasmussen, & Harris, 2016);  
 GA (Ross, 1944; Schmid, 1983; Moulton & Stewart, 1996);

IL (Ross, 1944; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1944; Waltz & McCafferty, 1983;  
     Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Floyd & Schuster, 1990; Moulton & Stewart, 1996; Zhou et al., 2011;  
     Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Denning, 1948; Moulton & Stewart, 1996);  
 MB (Denning, 1948; Flannagan, 1978; Flannagan & Flannagan, 1982;  
     Schmid, 1983; Moulton & Stewart, 1996);  
 ME (Blickle and Morse, 1966; Bilger, 1986;  
     Moulton & Stewart, 1996; Huryn & Harris, 2000);  
 MI (Ross, 1944; Ellis, 1962; Moulton & Stewart, 1996; Houghton, Brandin, & Brakel, 2011;  
     Wright, Pytel, & Houghton, 2013; Houghton, 2016;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Denning, 1948; Etnier, 1965; Moulton & Stewart, 1996;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NB (Zhou et al., 2011);  
 NC (Wray, 1950; Moulton & Stewart, 1996;  
     Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Morse and Blickle, 1957; Moulton & Stewart, 1996);  
 NS (Schmid, 1983; Moulton & Stewart, 1996);  
 NY (Ross, 1944; Myers, Kondratieff, Mihuc, & Ruiter 2011);  
 OH (Huryn & Foote, 1981; Huryn & Foote, 1983; Moulton & Stewart, 1996;  
     Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Ross, 1944; Schmid, 1983; Bowles & Mathis, 1992;  
     Moulton & Stewart, 1996);  
 ON (Chapin, 1978; Schmid, 1983; Moulton & Stewart, 1996; Zhou et al., 2011);  
 PA (Masteller & Flint, 1992);  
 QC (Schmid, 1983; Moulton & Stewart, 1996);  
 SC (Morse, 1970; Morse, Chapin, Herlong & Harvey, 1980;  
     Morse, Hamilton, & Hoffman, 1989; Moulton & Stewart, 1996);  
 SK (Hagen, 1868; Schmid, 1983; Moulton & Stewart, 1996);  
 TN (Chapin, 1978; Etnier & Schuster, 1979;  
     Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Ross, 1944; Parker & Voshell, 1981; Moulton & Stewart, 1996;  
     Flint, Hoffman, & Parker, 2008; Zhou et al., 2011; Flint, 2011);  
 VT (Wimmer, 1979; Moulton & Stewart, 1996);  
 WI (Ross, 1944; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
     Shapas & Hilsenhoff, 1976; Steven & Hilsenhoff, 1984;  
     Hilsenhoff, 1995; Hilsenhoff, 1996; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Griffith & Perry, 1992; Tarter & Floyd, 2016).  
 Micrasema scotti Ross, 1947, IN;  
     AL (Harris, O'Neil, & Lago, 1991);  
     GA (Zhou et al., 2011);  
     IN (Ross, 1947; Waltz & McCafferty, 1983;  
         Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
     KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012);

- Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 TN (Etnier, 1973; Etnier, Baxter, Fraley, & Parker, 1998; Zhou et al., 2011);  
 VA (Chapin, 1978; Parker & Voshell, 1981; Flint, Hoffman, & Parker, 2008; Zhou et al., 2011);  
 WV (Tarter, 1990; Tarter & Floyd, 2016).
- Micrasema sprulesi* Ross, 1941, ON;  
 male & female genitalia (Schmid, 1983);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 CT (Schmid, 1983; Nelson & Downs, 1995);  
 MA (Neves, 1979);  
 ME (Ruiter, 2000);  
 NB (Schmid, 1983);  
 NC (Chapin, 1978; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Chapin, 1978);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter 2011);  
 ON (Ross, 1941; Schmid, 1983);  
 PA (Chapin, 1978);  
 QC (Roy and Harper, 1975; Roy & Harper, 1979; Schmid, 1983);  
 SC (Chapin, 1978);  
 VA (Chapin, 1978; Parker & Voshell, 1981; Flint, Hoffman, & Parker, 2008).
- Micrasema wataga* Ross, 1938, TN;  
 adult meso- and metatibia, male & female genitalia  
 (Marshall & Larson, 1982);  
 male & female genitalia (Schmid, 1983);  
 male genitalia (Moulton & Stewart, 1996; Houghton, 2012);  
 NS, NB, QC, ON, SK, south to TN, OK (Schmid, 1983);  
 GA/SC (Hudson & Nichols, 1986);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris, Lago, & O'Neil, 1984; Harris, 1987;  
 Harris & Lago, 1990; Frazer, Harris, & Ward, 1991;  
 Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996;  
 Hicks & Haynes, 2000a);  
 AR (Unzicker, Aggus, & Warren, 1970; Bowles & Mathis, 1989;  
 Moulton & Stewart, 1996);  
 CT (Chapin, 1978; Nelson, 1987; Nelson & Downs, 1995;  
 Moulton & Stewart, 1996);  
 FL (Chapin, 1978; Gordon, 1984; Pescador, Rasmussen, & Harris, 1995, 2004;  
 Moulton & Stewart, 1996; Rasmussen, 2004; Zhou et al., 2011;  
 Denson, Rasmussen, & Harris, 2016);  
 GA (Chapin, 1978; Moulton & Stewart, 1996);  
 IL (Chapin, 1978; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Moulton & Stewart, 1996;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996);  
 MA (Neves, 1979; Moulton & Stewart, 1996);  
 MB (Flannagan, 1978; Flannagan & Flannagan, 1982; Moulton & Stewart, 1996);  
 MD (Chapin, 1978; Moulton & Stewart, 1996);  
 ME (Blickle and Morse, 1966; Mingo & Gibbs, 1980; Bilger, 1986;  
 Moulton & Stewart, 1996; Huryn & Harris, 2000);  
 MI (Chapin, 1978; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Denning, 1948; Etnier, 1965; MacLean, 1995; Moulton & Stewart, 1996);



Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2004a; Zhou et al., 2011;  
 Houghton, 2012; Houghton & Lardner, 2020;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996);  
 NB (Schmid, 1983; Moulton & Stewart, 1996);  
 NC (Ross, 1938; Wray, 1950; Penrose, Lenat, & Eagleson, 1982;  
 Lenat, 1987; Morse, Hamilton, & Hoffman, 1989;  
 Moulton & Stewart, 1996; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NF (Marshall & Larson, 1982; Moulton & Stewart, 1996);  
 NH (Morse & Blickle, 1953; Moulton & Stewart, 1996);  
 NS (Schmid, 1983; Moulton & Stewart, 1996);  
 NY (Ross, 1938; Moulton & Stewart, 1996; Zhou et al., 2011;  
 Myers, Kondratieff, Mihuc, & Ruiter 2011);  
 OH (Chapin, 1978; Moulton & Stewart, 1996; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Schmid, 1983; Bowles & Mathis, 1992; Moulton & Stewart, 1996);  
 ON (Sprules, 1947; Schmid, 1983; Moulton & Stewart, 1996; Zhou et al., 2011);  
 PA (Masteller & Flint, 1992);  
 QC (Robert, 1958; Roy & Harper, 1975; Roy & Harper, 1979;  
 Williams & Williams, 1979; Schmid, 1983; Moulton & Stewart, 1996);  
 SC (Morse, 1970; Morse, Hamilton, & Hoffman, 1989;  
 Moulton & Stewart, 1996; Floyd, Morse, & Harris, 1997; Zhou et al., 2011);  
 SK (Schmid, 1983; Moulton & Stewart, 1996);  
 TN (Ross, 1938; Chapin, 1978; Schmid, 1983; Moulton & Stewart, 1996;  
 Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005;  
 DeWalt, Jacobus, & McCafferty, 2007; Zhou et al., 2011);  
 VA (Chapin, 1978; Parker & Voshell, 1981;  
 Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2008; Zhou et al., 2011;  
 Flint, 2011);  
 VT (Wimmer, 1979; Moulton & Stewart, 1996);  
 WI (Hilsenhoff, 1970; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
 Shapas & Hilsenhoff, 1976; Steven & Hilsenhoff, 1984; Hilsenhoff, 1995;  
 Hilsenhoff, 1996; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Tarter & Floyd, 2016).

Calamoceratidae (3 genera, 5 species) —Comb-lipped Caddisflies

*Anisocentropus pyraloides* (Walker, 1852), Notidobia, GA;  
 internal female genitalia (Unzicker, 1968);  
 larva, pupa, photos of case (Wallace & Sherberger, 1970);  
 larva, case (Wiggins, 1977);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris, 1987; Harris & Lago, 1990;  
 Harris, O'Neil, & Lago, 1991; Hicks & Haynes, 2000a; Zhou et al., 2011;  
 Harris & O'Neil, 2015);  
 FL (Wallace & Sherberger, 1970; Harris, Lago, & Scheiring, 1982;  
 Scheiring, 1985; Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004;  
 Zhou et al., 2011; Denson, Rasmussen, & Harris, 2016);  
 GA (Walker, 1852; Wallace & Sherberger, 1970; Wiggins, 1977);  
 DE (Wiggins, 1977; Lake, 1984);  
 KY (Zhou et al., 2011; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Holzenthal, Harris, & Lago, 1982);  
 NC (Harris, O'Neil, & Lago, 1991; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NJ (Smith, 1890; Harris, O'Neil, & Lago, 1991);

SC (Wallace & Sherberger, 1970; Morse, Chapin, Herlong, & Harvey, 1980; Floyd & Morse, 1993; Zhou et al., 2011);  
TN (Edwards, 1966; Wiggins, 1977; Etnier & Schuster, 1979; Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005; Zhou et al., 2011);  
VA (Parker & Voshell, 1981; Flint, Hoffman, & Parker, 2008)  
WV (Tarter, Wilhelm, Bailey, & Nowlin, 1996; Tarter & Floyd, 2016).

Heteroplectron americanum (Walker, 1852), Sericostoma, GA;  
Ganonema nigrum Lloyd, 1915, NY (Milne, 1936);  
forewing, male & female genitalia (Schmid, 1983);  
NC/SC (Unzicker Resh, & Morse, 1982);  
AL (Harris, 1987; Harris & Lago, 1990; Harris, O'Neil, & Lago, 1991; Hicks & Haynes, 2000a);  
CT (Nelson & Downs, 1995);  
DE (Patterson & Vannote, 1979; Lake 1984);  
FL (Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004; Denson, Rasmussen, & Harris, 2016);  
GA (Walker, 1852; Etnier & Schuster, 1979; Schmid, 1983);  
KY (Phillippi & Schuster, 1987; Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MA (Neves, 1979);  
ME (Bilger, 1986);  
NC (Morse, Hamilton, & Hoffman, 1989; Floyd, Morse, & Harris, 1997; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);  
NH (Wiggins, 1977; Schmid, 1983);  
NJ (Smith, 1910; Harris, O'Neil, & Lago, 1991);  
NY (Lloyd, 1915; Wiggins, 1977; Schmid, 1983; Myers, Kondratieff, Mihuc, & Ruiter 2011);  
PA (Masteller & Flint, 1992);  
QC (Wiggins, 1977; Roy & Harper, 1979; Schmid, 1980; Schmid, 1983);  
SC (Morse, Chapin, Herlong, & Harvey, 1980; Schmid, 1983; Floyd & Morse, 1993; Floyd, Morse, & Harris, 1997; Zhou et al., 2011);  
TN (Harris, O'Neil, & Lago, 1991; Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005; Zhou et al., 2011);  
VA (Parker & Voshell, 1981; Flint, Hoffman, & Parker, 2008; Zhou et al., 2011);  
VT (Bilger, 1986).

Heteroplectron californicum McLachlan, 1871, CA;  
larva, case (Wiggins, 1977);  
larval gills, male head, wings, male & female genitalia (Schmid, 1980; Schmid, 1983);  
CA to BC (Wiggins, 1977; Schmid, 1983);  
CA (McLachlan, 1871; Wiggins, 1977; Dudley & Anderson, 1982; Schmid, 1983; McElravy & Resh, 1987; Givens, 2014; Resh & Mendez, 2022);  
BC (Winterbourn, 1971; Wiggins, 1977; Nimmo & Scudder, 1978; Schmid, 1980; Schmid, 1983);  
OR (Anderson & Wold, 1972; Anderson, 1967; Anderson, 1976; Anderson, 1978; Anderson, 1979; Dudley & Anderson, 1982; Anderson, Cooper, & Denning, 1982; Anderson, Wisseman, & Courtney, 1984; Anderson & Hansen, 1987).

Phylloicus aeneus (Hagen, 1861), Macronema, Mexico;  
Phylloicus ornatus (Banks, 1909), Notomyia, TX (Prather, 2003);  
Phylloicus centralus (Navás, 1924), Macronema, Costa Rica (Prather, 2003);

male genitalia (Flint, 1967);  
 larva, case (Wiggins, 1977);  
 female genitalia (Denning, Resh, & Hogue, 1983);  
 male and female genitalia, larva, larval case, pupa  
 (Bowles & Flint, 1997, as *Phylloicus ornatus*);  
 AZ (Banks, 1900; Banks, 1905; Flint, 1967; Wiggins, 1977;  
 Moulton, Stewart, & Young, 1994; Ruiter, 1996;  
 Bowles & Flint, 1997; Houghton, 2001; Blinn & Ruiter, 2006);  
 NM (Waltz & McCafferty, 1983; Bowles & Flint, 1997);  
 TX (Banks, 1909, as *Phylloicus ornatus*; Norris, Arnold, & Edwards, 1964, as *Phylloicus ornatus*;  
 Wiggins, 1977, as *Phylloicus ornatus*; Bowles & Flint, 1997, as *Phylloicus ornatus* and  
*Phylloicus ornatus*; Moulton & Stewart, 1997; Prather, 2003;  
 Bowles, Tiemann, & Easley, 2007);  
*Phylloicus mexicanus* (Banks, 1900), *Heteroplectron*, Mexico;  
 AZ (Prather, 2003; Blinn & Ruiter, 2006; Blinn & Ruiter, 2009b);  
 Mexico (Banks, 1900).

Dipseudopsidae (1 genus, 5 species) —Pitot-tube Caddisflies

*Phylocentropus auriceps* (Banks, 1905), *Plectrocnemia*, NC;  
*Phylocentropus rabilis* Milne, 1936 (Ross, 1944);  
 male genitalia (Ross, 1965);  
 wings, tibial spurs, male and female genitalia  
 (Schuster & Hamilton, 1984);  
 male & female genitalia (Armitage & Hamilton, 1990);  
 photos of male genitalia, male head, & male apical spur of hind leg (Weaver, 2020);  
 southern Appalachian mountains (Sturkie & Morse, 1998);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 GA (Schuster, & Hamilton, 1984; Armitage & Hamilton, 1990;  
 Sturkie & Morse, 1998);  
 NC (Banks, 1905; Milne, 1936; Wray, 1950;  
 Schuster & Hamilton, 1984;  
 Morse, Hamilton, & Hoffman, 1989;  
 Armitage & Hamilton, 1990; Sturkie & Morse, 1998;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 SC (Schuster & Hamilton, 1984; Armitage & Hamilton, 1990;  
 Sturkie & Morse, 1998);  
 VA (Parker & Voshell, 1981; Schuster & Hamilton, 1984;  
 Armitage & Hamilton, 1990; Sturkie & Morse, 1998;  
 Flint, Hoffman, & Parker, 2004; Zhou et al., 2011).  
*Phylocentropus carolinus* Carpenter, 1933, NC;  
 male genitalia (Flint, 1966);  
 larva, net (Wiggins, 1977);  
 male & female genitalia (Schmid, 1983; Armitage & Hamilton, 1990);  
 wings, male & female genitalia (Schuster & Hamilton, 1984);  
 larva & larval key (Sturkie & Morse, 1998);  
 photos of male genitalia (Weaver, 2020);  
 eastern North America (Sturkie & Morse, 1998);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Schuster & Hamilton, 1984; Harris, Lago, & O'Neil, 1984;  
 Harris, 1987; Lago & Harris, 1987;  
 Armitage & Hamilton, 1990; Harris, O'Neil, & Lago, 1991;  
 Hicks & Haynes, 2000a; Harris & O'Neil, 2015);  
 CT (Nelson & Downs, 1995);  
 DE (Lake, 1984);  
 FL (Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004);

Denson, Rasmussen, & Harris, 2016);  
 GA (Schuster & Hamilton, 1984; Armitage & Hamilton, 1990);  
 KY (Resh, 1975; Schuster & Hamilton, 1984;  
 Armitage & Hamilton, 1990; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Lago, Holzenthal, & Harris, 1982; Schuster & Hamilton, 1984;  
 Armitage & Hamilton, 1990);  
 ME (Blickle & Morse, 1966; Mingo & Gibbs, 1980;  
 Schuster & Hamilton, 1984; Bilger, 1986;  
 Armitage & Hamilton, 1990; Hury & Harris, 2000);  
 MS (Lago, Holzenthal, & Harris, 1982; Schuster & Hamilton, 1984;  
 Armitage & Hamilton, 1990);  
 NC (Carpenter, 1933; Schmid, 1983; Schuster & Hamilton, 1984;  
 Morse, Hamilton, & Hoffman, 1989; Armitage & Hamilton, 1990;  
 Floyd, Morse, & Harris, 1997; DeWalt, Jacobus, & McCafferty, 2007;  
 Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Morse & Blickle, 1953; Schmid, 1983;  
 Schuster & Hamilton, 1984; Armitage & Hamilton, 1990);  
 NY (Myers, Kondratieff, Mihuc, & Ruitter 2011);  
 ON (Schmid, 1980; Schuster & Hamilton, 1984;  
 Armitage & Hamilton, 1990);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979; Schmid, 1980;  
 Schmid, 1983; Schuster & Hamilton, 1984;  
 Armitage & Hamilton, 1990);  
 SC (Wiggins, 1977; Morse, Chapin, Herlong, & Harvey, 1980;  
 Schmid, 1983; Schuster & Hamilton, 1984;  
 Morse, Hamilton, & Hoffman, 1989;  
 Armitage & Hamilton, 1990; Sturkie & Morse, 1998;  
 Floyd, Morse, & Harris, 1997; Zhou et al., 2011);  
 TN (Schmid, 1983; Schuster & Hamilton, 1984;  
 Armitage & Hamilton, 1990; Etnier, Baxter, Fraley, & Parker, 1998; Zhou et al., 2011);  
 VA (Flint, Hoffman, & Parker, 2004; Zhou et al., 2011);  
 WV (Tarter & Floyd, 2016).  
*Phylocentropus harrisi* Schuster & Hamilton, 1984, AL;  
 male genitalia (Armitage & Hamilton, 1990);  
 female genitalia (Harris & O'Neil, 2015);  
 AL (Schuster & Hamilton, 1984; Lago & Harris, 1987; Harris, 1990;  
 Armitage & Hamilton, 1990; Harris, O'Neil, & Lago, 1991;  
 Morse et al, 1997; Harris & O'Neil, 2015);  
 TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997).  
*Phylocentropus lucidus* (Hagen, 1861), *Polycentropus*, PA;  
 larva, adult mesonotum (Ross & Gibbs, 1973);  
 male genitalia (Schmid, 1980);  
 male & female genitalia (Schmid, 1983; Armitage & Hamilton, 1990);  
 wings, male & female genitalia (Schuster & Hamilton, 1984);  
 larva & larval key (Sturkie & Morse, 1998);  
 photos of male genitalia (Weaver, 2020);  
 eastern North America (Sturkie & Morse, 1998);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 NS, NB, QC, ON, south to MS (Schmid, 1983);  
 AL (Harris, 1987; Lago & Harris, 1987;  
 Harris, O'Neil, & Lago, 1991; Hicks & Haynes, 2000a);  
 CT (Schuster & Hamilton, 1984; Nelson, 1987;  
 Armitage & Hamilton, 1990; Nelson & Downs, 1995);  
 DC (Banks, 1904);

DE (Harris, O'Neil, & Lago, 1991);  
 FL (Schuster & Hamilton, 1984; Armitage & Hamilton, 1990;  
 Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004;  
 Denson, Rasmussen, & Harris, 2016);  
 GA (Schuster & Hamilton, 1984);  
 IL (Schuster & Hamilton, 1984; Armitage & Hamilton, 1990;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Armitage & Hamilton, 1990;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Schuster & Hamilton, 1984; Armitage & Hamilton, 1990;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Harris, O'Neil, & Lago, 1991);  
 MA (Neves, 1979; Schuster & Hamilton, 1984;  
 Armitage & Hamilton, 1990);  
 MD (Schuster & Hamilton, 1984; Armitage & Hamilton, 1990);  
 ME (Procter, 1946; Blickle & Morse, 1966;  
 Schuster & Hamilton, 1984; Armitage & Hamilton, 1990; Huryn & Harris, 2000);  
 MS (Lago, Holzenthal, & Harris, 1982; Schmid, 1983;  
 Schuster & Hamilton, 1984; Armitage & Hamilton, 1990);  
 NB (Schmid, 1983; Armitage & Hamilton, 1990; Zhou et al., 2011);  
 NC (Schuster & Hamilton, 1984; Morse, Hamilton, & Hoffman, 1989;  
 Armitage & Hamilton, 1990; Floyd, Morse, & Harris, 1997;  
 DeWalt, Jacobus, & McCafferty, 2007;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Morse & Blickle, 1953; Schuster & Hamilton, 1984;  
 Armitage & Hamilton, 1990);  
 NJ (Smith, 1890; Smith, 1910; Schuster & Hamilton, 1984;  
 Armitage & Hamilton, 1990);  
 NS (Ross, 1944; Schmid, 1983; Armitage & Hamilton, 1990);  
 NY (Banks, 1892; Betten, 1934; Schuster & Hamilton, 1984;  
 Armitage & Hamilton, 1990; Zhou et al., 2011;  
 Myers, Kondratieff, Mihuc, & Ruiter 2011);  
 OH (MacLean & MacLean, 1980; Huryn & Foote, 1983; MacLean & MacLean, 1984;  
 Schuster & Hamilton, 1984; Usis & MacLean, 1986;  
 Garono & MacLean, 1988; Armitage & Hamilton, 1990; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Schmid, 1980; Schmid, 1983; Schuster & Hamilton, 1984;  
 Armitage & Hamilton, 1990);  
 PA (Hagen, 1861; Swegman, Walker, & Sykora, 1981;  
 Schuster & Hamilton, 1984; Masteller & Flint, 1984;  
 Armitage & Hamilton, 1990; Masteller & Flint, 1992);  
 QC (Robert, 1958; Roy & Harper, 1975; Roy & Harper, 1979;  
 Schmid, 1980; Schmid, 1983; Schuster & Hamilton, 1984;  
 Harper, 1989; Armitage & Hamilton, 1990);  
 RI (Schuster & Hamilton, 1984; Armitage & Hamilton, 1990; Hunt, 2017);  
 SC (Morse, Chapin, Herlong, & Harvey, 1980;  
 Schuster & Hamilton, 1984;  
 Morse, Hamilton, & Hoffman, 1989;  
 Armitage & Hamilton, 1990; Floyd & Morse, 1993;  
 Floyd, Morse, & Harris, 1997);  
 TN (Ross, 1944; Etnier & Schuster, 1979;  
 Schuster & Hamilton, 1984; Armitage & Hamilton, 1990;  
 Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Parker & Voshell, 1981; Schuster & Hamilton, 1984);

Armitage & Hamilton, 1990; Flint, Hoffman, & Parker, 2004; Zhou et al., 2011;  
 Flint, 2011);  
 VT (Wimmer, 1979);  
 WV (Tarter & Hill, 1979; Schuster & Hamilton, 1984; Stout & Stout, 1989; Tarter, 1990;  
 Armitage & Hamilton, 1990; Griffith & Perry, 1992; Tarter & Floyd, 2016).  
 Phylocentropus placidus (Banks, 1905), Holocentropus, DC;  
 Phylocentropus hansonii Root, 1965, MA (Schuster & Hamilton, 1984);  
 Phylocentropus irroratus Navás, 1934, MA (Schuster & Hamilton, 1984);  
 Phylocentropus maximus Vorhies, 1909 (Milne, 1936);  
 internal female genitalia (Unzicker, 1968);  
 retreat, photos of larval mandible, maxilla, foreleg, midleg,  
 retreats, net (Wallace, Woodall, & Staats, 1976);  
 larval gills, adult head, palps, wings, male & female genitalia  
 (Schmid, 1980);  
 palps, A3 gills, head, wings, male & female genitalia  
 (Schmid, 1983);  
 wings, male & female genitalia (Schuster & Hamilton, 1984);  
 male & female genitalia (Armitage & Hamilton, 1990);  
 larva & larval key (Sturkie & Morse, 1998);  
 wing & male genitalia (Moulton & Stewart, 1996);  
 fore-, hind wing (Chamorro & Holzenthal, 2011);  
 forewing & male genitalia (Houghton, 2012);  
 photos of male head & male genitalia (Weaver, 2020);  
 eastern North America (Sturkie & Morse, 1998);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 NS, NB, QC, ON, MB, south to IL & TN (Schmid, 1983);  
 AL (Harris et al, 1983; Schuster & Hamilton, 1984; Harris, 1987;  
 Lago & Harris, 1987; Armitage & Hamilton, 1990;  
 Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991;  
 Moulton & Stewart, 1996; Hicks & Haynes, 2000a; Harris & O'Neil, 2015;  
 Denson, Rasmussen, & Harris, 2016);  
 AR (Unzicker, Aggus, & Warren, 1970; Schuster & Hamilton, 1984;  
 Bowles & Mathis, 1989; Armitage & Hamilton, 1990;  
 Moulton & Stewart, 1996; Etnier, 2010);  
 CT (Schuster & Hamilton, 1984; Armitage & Hamilton, 1990;  
 Nelson & Downs, 1995; Moulton & Stewart, 1996);  
 DC (Banks, 1905; Moulton & Stewart, 1996);  
 DE (Lake, 1984; Schuster & Hamilton, 1984;  
 Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
 FL (Betten, 1934; Schuster & Hamilton, 1984; Gordon, 1984;  
 Armitage & Hamilton, 1990; Pescador, Rasmussen, & Harris, 1995, 2004;  
 Mattson, Epler, & Hein, 1995; Moulton & Stewart, 1996; Rasmussen, 2004;  
 Denson, Rasmussen, & Harris, 2016);  
 GA (Betten & Mosely, 1940; Ross, 1944;  
 Wallace, Woodall, & Staats, 1976;  
 Schuster & Hamilton, 1984; Armitage & Hamilton, 1990;  
 Moulton & Stewart, 1996);  
 IL (Ross, 1944; Schmid, 1983; Schuster & Hamilton 1984;  
 Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1944; Waltz & McCafferty, 1983;  
 Schuster & Hamilton 1984; Armitage & Hamilton, 1990;  
 Moulton & Stewart, 1996;  
 DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

KY (Resh, 1975; Schuster & Hamilton, 1984;  
 Floyd & Schuster, 1990; Armitage & Hamilton, 1990;  
 Moulton & Stewart, 1996; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Lago, Holzenthal, & Harris, 1982; Schuster & Hamilton, 1984;  
 Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
 MA (Navás, 1934; Root, 1965; Neves, 1979;  
 Schuster & Hamilton, 1984;  
 Bilger, 1986; Armitage & Hamilton, 1990;  
 Moulton & Stewart, 1996);  
 MB (Neave, 1934; Flannagan & Lawler, 1972;  
 Flannagan & Flannagan, 1982; Resh, Rosenberg, & Wiens, 1983;  
 Schmid, 1983; Schuster & Hamilton, 1984;  
 Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
 MD (Flint, 2008);  
 ME (Ross, 1944; Procter, 1946; Blickle & Morse, 1966;  
 Mingo & Gibbs, 1980; Schuster & Hamilton, 1984;  
 Bilger, 1986; Armitage & Hamilton, 1990;  
 Moulton & Stewart, 1996; Huryn & Harris, 2000);  
 MI (Ross, 1944; Leonard & Leonard, 1949; Ellis, 1962;  
 Schuster & Hamilton, 1984; Armitage & Hamilton, 1990;  
 Davis, Hudson, & Armitage, 1991; Moulton & Stewart, 1996; DeWalt & South, 2015;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton & Lardner, 2020; Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Ross, 1944; Etnier, 1965;  
 Lager, Johnson, Williams, & McCullough, 1979;  
 Armitage & Hamilton, 1990; MacLean, 1995; Moulton & Stewart, 1996;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Chamorro & Holzenthal, 2011;  
 Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Schuster & Hamilton, 1984; Armitage & Hamilton, 1990;  
 Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Lago, Holzenthal, & Harris, 1982; Schuster & Hamilton, 1984;  
 Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
 NB (Ross, 1944; Schmid, 1983; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
 NC (Banks, 1908; Schuster & Hamilton, 1984;  
 Morse, Hamilton, & Hoffman, 1989;  
 Armitage & Hamilton, 1990;  
 Moulton & Stewart, 1996; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Morse & Blickle, 1953; Schuster & Hamilton, 1984;  
 Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
 NJ (Schuster & Hamilton, 1984; Armitage & Hamilton, 1990;  
 Moulton & Stewart, 1996);  
 NS (Ross, 1944; Schmid, 1983; Schuster & Hamilton, 1984;  
 Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
 NY (Needham & Betten, 1901; Sibley, 1926; Ross, 1944; Root, 1965;  
 Schuster & Hamilton, 1984; Armitage & Hamilton, 1990;  
 Moulton & Stewart, 1996; Myers, Kondratieff, Mihuc, & Ruiter 2011);  
 OH (Marshall, 1939; Ross, 1944; Huryn & Foote, 1983;  
 Schuster & Hamilton, 1984; Usis & MacLean, 1986;  
 Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Bowles & Mathis, 1992; Moulton & Stewart, 1996);

Moulton & Stewart, 1996);  
 ON (Ricker, 1934; Ross, 1944; Sprules, 1947; Schmid, 1980;  
 Schmid, 1983; Harper, 1989; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
 PA (Ross, 1941; Hyland, 1948; Schuster & Hamilton, 1984;  
 Armitage & Hamilton, 1990; Masteller & Flint, 1992;  
 Moulton & Stewart, 1996);  
 QC (Ross, 1944; Robert, 1958; Corbet, Schmid, & Augustin, 1966;  
 Roy & Harper, 1975; Williams & Williams, 1979;  
 Roy & Harper, 1979; Schmid, 1980; Schmid, 1983;  
 Schuster & Hamilton, 1984; Harper, 1989;  
 Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
 RI (Schuster & Hamilton, 1984; Armitage & Hamilton, 1990;  
 Moulton & Stewart, 1996; Hunt, 2017);  
 SC (Morse, Chapin, Herlong, & Harvey, 1980;  
 Schuster & Hamilton, 1984;  
 Morse, Hamilton, & Hoffman, 1989;  
 Armitage & Hamilton, 1990; Floyd & Morse, 1993;  
 Moulton & Stewart, 1996;  
 Floyd, Morse, & Harris, 1997; Harris & O'Neil, 2015);  
 TN (Döhler, 1915; Edwards, 1966; Etnier & Schuster, 1979;  
 Schmid, 1983; Armitage & Hamilton, 1990;  
 Moulton & Stewart, 1996;  
 Etnier, Baxter, Fraley, & Parker, 1998; Etnier, Bauer, & Zirkle, 2006);  
 TX (Schuster & Hamilton, 1984; Armitage & Hamilton, 1990;  
 Moulton & Stewart, 1996; Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);  
 VA (Banks, 1907; Parker & Voshell, 1981;  
 Schuster & Hamilton, 1984; Armitage & Hamilton, 1990;  
 Hoffman & Parker, 1997; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004;  
 Flint, 2011);  
 VT (Wimmer, 1979; Bilger, 1986; Moulton & Stewart, 1996);  
 WI (Vorhies, 1909; Ross, 1944; Hilsenhoff et al, 1972;  
 Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
 Schuster & Hamilton, 1984; Steven & Hilsenhoff, 1984;  
 Armitage & Hamilton, 1990; Hilsenhoff, 1995;  
 Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016).

Ecnomidae (1 genus, 1 species) —Ecnomid Caddisflies

*Austrotinodes texensis* Bowles, 1995, TX;  
 TX (Waltz & McCafferty, 1983; Bowles, 1995; Moulton & Stewart, 1997;  
 Bowles, Tiemann, & Easley, 2007).

Glossosomatidae (6 genera, 89 species) —Saddle-case Caddisflies

*Agapetus alabamensis* Harris, 1986, AL;  
 male genitalia (Etnier, Parker, Baxter, & Long, 2010);  
 photos & movie female segment VIII (Parker & Bernard, 2021);  
 AL (Harris, 1986; Harris, 1987; Harris & Lago, 1990;  
 Harris, 1990; Harris, O'Neil, & Lago, 1991;  
 Morse et al, 1997; Hicks & Haynes, 2000a; Etnier, Parker, Baxter, & Long, 2010;  
 Parker & Bernard, 2021).  
*Agapetus aphallus* Etnier, Baxter, & Parker, 2010, in Etnier, Parker, Baxter, & Long, 2010, TN;  
 photo of female segment VIII (Parker & Bernard, 2021);  
 TN (Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021).  
*Agapetus arcita* Denning, 1951, CA;



- CA (Denning, 1951; Resh & Mendez, 2022).
- Agapetus artesus* Ross, 1938, MO;  
 male genitalia (Moulton & Stewart, 1996; Etnier, Parker, Baxter, & Long, 2010);  
 MO (Ross, 1938; Mathis & Bowles, 1992; Moulton & Stewart, 1996;  
 Etnier, Parker, Baxter, & Long, 2010;  
 Mabee, Schuhmann, Poulton, Gironde, Swee, Buckley, Bowles, Bowles, & Rhodes,  
 2019; Parker & Bernard, 2021;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Agapetus avitus* Edwards, 1956, TN;  
 male & female genitalia (Harris, 1984);  
 male genitalia (Etnier, Parker, Baxter, & Long, 2010);  
 photos of female segment VIII (Parker & Bernard, 2021);  
 AL (Harris, 1984; Harris, 1987; Harris & Lago, 1990;  
 Harris, O'Neil, & Lago, 1991; Etnier, Parker, Baxter, & Long, 2010;  
 Parker & Bernard, 2021);  
 KY (Etnier, Bauer, & Zirkle, 2006; Etnier, Parker, Baxter, & Long, 2010;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Parker & Bernard, 2021;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Etnier, 2010; Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);  
 TN (Edwards, 1956; Harris, 1984; Etnier, Baxter, Fraley, & Parker, 1998;  
 Hamilton, Hamilton, & Lyle, 2002; Etnier, Bauer, & Zirkle, 2006;  
 Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021).
- Agapetus baueri* Etnier, Parker, & Baxter, 2010, in Etnier, Parker, Baxter, & Long, 2010, TN;  
 photo of female segment VIII (Parker & Bernard, 2021);  
 NC (Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);  
 TN (Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);  
 VA (Etnier, Parker, Baxter, & Long, 2010; Flint, 2014; Parker & Bernard, 2021).
- Agapetus bifidus* Denning, 1949, OR  
 eggmass, case (Anderson & Bourne, 1974);  
 OR (Denning, 1949; Anderson & Wold, 1972; Anderson & Bourne, 1974;  
 Anderson, 1976; Anderson & Hansen, 1987).
- Agapetus boulderensis* Milne, 1936, CO;  
 male & female genitalia (Denning, 1948);  
 AZ (Moulton, Stewart, & Young, 1994; Blinn & Ruitter, 2006; Blinn & Ruitter, 2009a;  
 Blinn & Ruitter, 2009b);  
 CO (Milne, 1936; Canton & Ward, 1981; Herrman, Ruitter, & Unzicker, 1986; Ward, 1986;  
 Ruitter, 1996; Ruse & Herrmann, 2000; Zuellig, Heinold, Kondratieff, & Ruitter, 2012);  
 NM (Ruitter, 1999; Vieira, Kondratieff, Ruitter, & Durfee, 2009);  
 UT (Baumann & Unzicker, 1981);  
 WY (Denning, 1948; Ruitter & Lavigne, 1985).
- Agapetus celatus* McLachlan, 1871, CA;  
 CA (McLachlan, 1871; Resh & Mendez, 2022).
- Agapetus cornutus* Denning, 1958, WA;  
 WA (Denning, 1958).
- Agapetus crasmus* Ross, 1939, TN;  
 male genitalia (Etnier, Parker, Baxter, & Long, 2010);  
 female terminalia (Parker & Bernard, 2021);  
 photos of female segment VIII (Parker & Bernard, 2021);  
 AL (Harris, & Lago, 1990; Harris, O'Neil, & Lago, 1991; Etnier, Parker, Baxter, & Long, 2010;  
 Parker & Bernard, 2021);  
 TN (Ross, 1939; Etnier, Baxter, Fraley, & Parker, 1998; Etnier, Parker, Baxter, & Long, 2010;  
 Zhou et al., 2011; Parker & Bernard, 2021).
- Agapetus denningi* Ross, 1951, OR;  
 OR (Ross, 1951; Anderson, 1976).
- Agapetus diacanthus* Edwards, 1956, TN;

male genitalia (Etnier, Parker, Baxter, & Long, 2010);  
 photos of female segment VIII (Parker & Bernard, 2021);  
 TN (Edwards, 1956; Morse et al, 1997; Etnier, Baxter, Fraley, & Parker, 1998;  
 Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021).

*Agapetus flinti* Parker, Etnier, & Baxter, 2010, in Etnier, Parker, Baxter, & Long, 2010, NC;  
 photos of female segment VIII (Parker & Bernard, 2021);  
 NC (Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021).

*Agapetus gelbae* Ross, 1947, IN;  
 male genitalia (Etnier, Parker, Baxter, & Long, 2010);  
 photo of female segment VIII (Parker & Bernard, 2021);  
 AL (Harris, & Lago, 1990; Harris, 1990;  
 Harris, O'Neil, & Lago, 1991; Etnier, Parker, Baxter, & Long, 2010;  
 Parker & Bernard, 2021);  
 IN (Ross, 1947; Waltz & McCafferty, 1983; Etnier, Parker, Baxter, & Long, 2010;  
 Parker & Bernard, 2021;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022)  
 TN (Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021).

*Agapetus harrisi* Etnier, Parker, & Baxter, 2010, in Etnier, Parker, Baxter, & Long, 2010, AL;  
 photo of female segment VIII (Parker & Bernard, 2021);  
 AL (Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021).

*Agapetus hesperus* Etnier, Baxter, & Parker, 2010, in Etnier, Parker, Baxter, & Long, 2010, AL;  
 photos of female segment VIII (Parker & Bernard, 2021);  
 AL (Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021).

*Agapetus hessi* Leonard and Leonard, 1949, MI;  
 wings, sternites V & VI, male & female genitalia (Schmid, 1980;  
 Schmid, 1982);  
 male genitalia (Etnier, Parker, Baxter, & Long, 2010);  
 AL (Harris, Lago, & O'Neil, 1984; Harris, 1987;  
 Harris & Lago, 1990; Harris, O'Neil, & Lago, 1991;  
 Hicks & Haynes, 2000a; Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);  
 KY (Etnier, 1973; Resh, 1975; Floyd & Schuster, 1990; Etnier, Parker, Baxter, & Long, 2010;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Parker & Bernard, 2021;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ME (Blickle & Morse 1966; Huryn & Harris, 2000; Etnier, Parker, Baxter, & Long, 2010;  
 Parker & Bernard, 2021);  
 MI (Leonard and Leonard, 1949; Schmid, 1982; Etnier, Parker, Baxter, & Long, 2010;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
 Parker & Bernard, 2021;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NB (Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);  
 NC (Etnier, Parker, Baxter, & Long, 2010; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010;  
 Parker & Bernard, 2021);  
 NS (Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);  
 ON (Schmid, 1982; Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);  
 QC (Corbet, Schmid, & Augustin, 1966; Nimmo, 1966;  
 Roy & Harper, 1979; Schmid, 1982);  
 VA (Schmid, 1982; Flint, Hoffman, & Parker, 2004; Etnier, Parker, Baxter, & Long, 2010;  
 Zhou et al., 2011; Parker & Bernard, 2021);  
 WI (Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hilsenhoff, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022)  
 WV (Etnier, Parker, Baxter, & Long, 2010; Tarter & Floyd, 2016; Parker & Bernard, 2021).

*Agapetus ibis* Etnier, Baxter, & Parker, 2010, in Etnier, Parker, Baxter, & Long, 2010, GA;  
 photos of female segment VIII (Parker & Bernard, 2021);  
 AL (Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);  
 GA (Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);

TN (Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021).

Agapetus illini Ross, 1938, IL;  
 photo of female segment VIII (Parker & Bernard, 2021);  
 male genitalia (Moulton & Stewart, 1996; Etnier, Parker, Baxter, & Long, 2010);  
 AR (Ross, 1944; Bowles & Mathis, 1989; Bowles & Allen, 1992;  
 Moulton & Stewart, 1996; Etnier, Parker, Baxter, & Long, 2010;  
 Bowles, 2020; Bowles, Cheri, Usrey, & Williams, 2020; Parker & Bernard, 2021);  
 ID (Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);  
 IL (Ross, 1938; Hamilton & Schuster, 1979;  
 Moulton & Stewart, 1996; Etnier, Parker, Baxter, & Long, 2010;  
 Parker & Bernard, 2021;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996; Etnier, Parker, Baxter, & Long, 2010;  
 Parker & Bernard, 2021;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton & Schuster, 1979; Hamilton, Schuster, & DuBois, 1983; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Ross, 1944; Resh, 1975; Hamilton & Schuster, 1979; Floyd & Schuster, 1990;  
 Moulton & Stewart, 1996; Etnier, Parker, Baxter, & Long, 2010;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (MacLean, 1995, misidentification according to  
 Houghton, Holzenthal, Monson, & MacLean, 2001);  
 MO (Ross, 1944; Hamilton & Schuster, 1979; Mathis & Bowles, 1992;  
 Moulton & Stewart, 1996; Ferro & Sites, 2007; Etnier, Parker, Baxter, & Long, 2010;  
 Bowles, 2020; Parker & Bernard, 2021;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Ross, 1944; Hamilton & Schuster, 1979; Bowles & Mathis, 1992;  
 Moulton & Stewart, 1996; Etnier, Parker, Baxter, & Long, 2010;  
 Parker & Bernard, 2021);  
 TN (Etnier & Schuster, 1979; Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006;  
 Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021).

Agapetus iridis Ross, 1944, NY;  
 male & female genitalia (Schmid, 1982);  
 male genitalia (Etnier, Parker, Baxter, & Long, 2010);  
 photo of female segment VIII (Parker & Bernard, 2021);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris & Lago, 1990; Harris, 1990;  
 Harris, O'Neil, & Lago, 1991; Etnier, Parker, Baxter, & Long, 2010;  
 Parker & Bernard, 2021);  
 CT (Nelson & Downs, 1995; Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);  
 DE (Lake, 1984);  
 MA (Denning, 1948; Neves, 1979; Etnier, Parker, Baxter, & Long, 2010;  
 Parker & Bernard, 2021);  
 ME (Blickle & Morse 1966);  
 NB (Zhou et al., 2011);  
 NC (Schmid, 1982; DeWalt, Jacobus, & McCafferty, 2007; Etnier, Parker, Baxter, & Long, 2010;  
 Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010; Parker & Bernard, 2021);  
 NH (Morse and Blickle, 1953; Etnier, Parker, Baxter, & Long, 2010);  
 NY (Ross, 1944; Schmid, 1982; Etnier, Parker, Baxter, & Long, 2010;  
 Myers, Kondratieff, Mihuc, & Ruitter 2011; Parker & Bernard, 2021);  
 PA (Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979; Schmid, 1982;  
 Etnier, Parker, Baxter, & Long, 2010);

SC (Harris, O'Neil, & Lago, 1991; Floyd & Morse, 1993; Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);  
 TN (Etnier, Baxter, Fraley, & Parker, 1998; Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);  
 VA (Parker & Voshell, 1981; Flint, Hoffman, & Parker, 2004; Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021).  
*Agapetus joannia* Denning, 1965, CA;  
 CA (Denning, 1965; Resh & Mendez, 2022).  
*Agapetus jocassee* Morse, 1989, NC (in the work by Morse, Hamilton & Hoffman, 1989);  
 larva, pupa, & female (Craft & Morse, 1997);  
 male genitalia (Etnier, Parker, Baxter, & Long, 2010);  
 photos & SEM of female segment VIII (Parker & Bernard, 2021);  
 GA (Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);  
 NC (Morse, 1989; Floyd, Morse, & Harris, 1997; Morse et al, 1997; Etnier, Parker, Baxter, & Long, 2010; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011; Parker & Bernard, 2021);  
 SC (Morse, Hamilton, & Hoffman, 1989; Craft & Morse, 1997; Floyd, Morse, & Harris, 1997; Morse et al, 1997; Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);  
 TN (Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021).  
*Agapetus kirchneri* Parker, Etnier, & Baxter, 2010, in Etnier, Parker, Baxter, & Long, 2010, VA;  
 photos of female segment VIII (Parker & Bernard, 2021);  
 KY (Etnier, Parker, Baxter, & Long, 2010; Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Parker & Bernard, 2021; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 TN (Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);  
 VA (Etnier, Parker, Baxter, & Long, 2010; Flint, 2014; Parker & Bernard, 2021).  
*Agapetus malleatus* Banks, 1914, CA;  
 male sterna A5, A6, female sternum A6, female genitalia (Denning, 1966);  
 CA (Banks, 1914; Resh & Mendez, 2022);  
 UT (Baumann & Unzicker, 1981).  
*Agapetus marlo* Milne, 1936, CA;  
 CA (Milne, 1936; Denning, 1965; Resh & Mendez, 2022).  
*Agapetus medicus* Ross, 1938, AR;  
 male genitalia (Etnier, Parker, Baxter, & Long, 2010);  
 photo & movie of female segment VIII (Parker & Bernard, 2021);  
 AR (Ross, 1938; Moulton & Stewart, 1996; Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021).  
*Agapetus meridionalis* Etnier, Parker, & Baxter, 2010, in Etnier, Parker, Baxter, & Long, 2010, GA;  
 GA (Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021).  
*Agapetus minutus* Sibley, 1926, NY;  
 male genitalia (Etnier, Parker, Baxter, & Long, 2010);  
 photos of female segment VIII (Parker & Bernard, 2021);  
 DE (Lake, 1984; Etnier, Parker, Baxter, & Long, 2010);  
 KY (Phillippi & Schuster, 1987; Etnier, Parker, Baxter, & Long, 2010; Zhou et al., 2011; Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Parker & Bernard, 2021; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);  
 NC (Etnier, Parker, Baxter, & Long, 2010; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010; Parker & Bernard, 2021);  
 NY (Sibley, 1926; Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);  
 ON (Singh, Smith, & Harrison, 1984a);  
 PA (Masteller & Flint, 1980; Swegman, Walker, & Sykora, 1981; Phillippi & Schuster, 1987; Masteller & Flint, 1992);

Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);  
 TN (Etnier & Schuster, 1979; Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005;  
 Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);  
 VA (Flint, Hoffman, & Parker, 2004; Etnier, Parker, Baxter, & Long, 2010;  
 Parker & Bernard, 2021);  
 WV (Tarter, 1990; Etnier, Parker, Baxter, & Long, 2010; Tarter & Floyd, 2016).  
*Agapetus montanus* Denning, 1949, MT;  
 ID (Smith, 1969; Newell & Minshall, 1977);  
 MT (Denning, 1949; Newell, 1970; Newell & Potter, 1973;  
 Roemhild, 1982)  
 NV (Ruiter, Baumann, & Flint, 2014).  
*Agapetus occidentis* Denning, 1949, OR;  
 OR (Denning, 1949; Anderson, 1976;  
 Anderson, Cooper, & Denning, 1982).  
*Agapetus orosus* Denning, 1950, CA;  
 CA (Denning, 1950; Resh & Mendez, 2022).  
*Agapetus pegram* Etnier, Baxter, & Parker, 2010, in Etnier, Parker, Baxter, & Long, 2010, TN;  
 photo of female segment VIII (Parker & Bernard, 2021);  
 TN (Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021).  
*Agapetus pinatus* Ross, 1938, TN;  
 male & female genitalia (Schmid, 1982);  
 male genitalia (Etnier, Parker, Baxter, & Long, 2010);  
 photos of female segment VIII (Parker & Bernard, 2021);  
 AL (Harris & Lago, 1990; Harris, O'Neil, & Lago, 1991; Etnier, Parker, Baxter, & Long, 2010;  
 Parker & Bernard, 2021);  
 CT (Harris, O'Neil, & Lago, 1991; Nelson & Downs, 1995; Etnier, Parker, Baxter, & Long, 2010;  
 Parker & Bernard, 2021);  
 GA (Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);  
 MA (Neves, 1979);  
 ME (Blickle & Morse, 1966; Mingo & Gibbs, 1980; Bilger, 1986; Huryn & Harris, 2000;  
 Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);  
 MS (Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);  
 NB (Schmid, 1982; Etnier, Parker, Baxter, & Long, 2010; Zhou et al., 2011;  
 Parker & Bernard, 2021);  
 NC (DeWalt, Jacobus, & McCafferty, 2007; Etnier, Parker, Baxter, & Long, 2010;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Parker & Bernard, 2021);  
 NH (Morse & Blickle, 1953; Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);  
 NJ (Mendez, Spagna, Holzenthal, & Houghton, 2019);  
 NS (Schmid, 1982);  
 NY (Etnier, Parker, Baxter, & Long, 2010; Myers, Kondratieff, Mihuc, & Ruiter 2011;  
 Parker & Bernard, 2021);  
 PA (Masteller & Flint, 1980; Masteller & Flint, 1992; Etnier, Parker, Baxter, & Long, 2010;  
 Parker & Bernard, 2021);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979; Schmid, 1982;  
 Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);  
 SC (Floyd, Morse, & Harris, 1997);  
 TN (Ross, 1938; Schmid, 1982; Etnier, Baxter, Fraley, & Parker, 1998;  
 Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);  
 VA (Flint, Hoffman, & Parker, 2004; Etnier, Parker, Baxter, & Long, 2010;  
 Parker & Bernard, 2021);  
 VT (Wimmer, 1979; Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021).  
*Agapetus ruiteri* Parker, Etnier, & Baxter, 2010, in Etnier, Parker, Baxter, & Long, 2010, TN;  
 photo of female segment VIII (Parker & Bernard, 2021);  
 TN (Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021).  
*Agapetus spinosus* Etnier and Way, 1973, TN;

male genitalia (Etnier, Parker, Baxter, & Long, 2010);  
 photo of female segment VIII (Parker & Bernard, 2021);  
 AL (Harris, & Lago, 1990; Harris, 1990;  
     Frazer, Harris, & Ward, 1991; Morse et al, 1997; Etnier, Parker, Baxter, & Long, 2010;  
     Parker & Bernard, 2021);  
 SC (Biondi, 2011);  
 TN (Etnier and Way, 1973; Morse et al, 1997; Etnier, Baxter, Fraley, & Parker, 1998;  
     Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021).  
*Agapetus stylifer* Etnier, Baxter, & Parker, 2010, in Etnier, Parker, Baxter, & Long, 2010, TN;  
 photos of female segment VIII (Parker & Bernard, 2021);  
 KY (Evans, Floyd, Etnier, Cook, & Vogel, 2017;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 TN (Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021).  
*Agapetus taho* Ross, 1947, CA;  
 BC (Nimmo & Scudder, 1983);  
 CA (Ross, 1947; Leland, Fend, Carter, & Mahood, 1986; McElravy & Resh, 1987;  
     Resh & Mendez, 2022);  
 CO (Ward, 1975);  
 OR (Anderson, 1976)  
 WA (Blinn & Ruitter, 2013).  
*Agapetus tomus* Ross, 1941, GA;  
 male genitalia (Etnier, Parker, Baxter, & Long, 2010; Houghton, 2012);  
 photo of female segment VIII (Parker & Bernard, 2021);  
 AL (Harris, Lago, & O'Neil, 1984; Harris, 1987;  
     Harris & Lago, 1990; Harris, O'Neil, & Lago, 1991;  
     Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);  
 GA (Ross, 1941; Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);  
 KY (Denning, 1948; Resh, 1975; Etnier, Parker, Baxter, & Long, 2010;  
     Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Parker & Bernard, 2021;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MI (Etnier, Parker, Baxter, & Long, 2010;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1968; Houghton, Holzenthal, Monson, & MacLean, 2001;  
     Houghton & Holzenthal, 2003; Etnier, Parker, Baxter, & Long, 2010; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Etnier, Parker, Baxter, & Long, 2010);  
 NJ (Zhou et al., 2011);  
 OH (Etnier, 2010; Etnier, Parker, Baxter, & Long, 2010; Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 PA (Masteller & Flint, 1992; Etnier, Parker, Baxter, & Long, 2010);  
 TN (Etnier & Schuster, 1979; Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005;  
     Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);  
 VA (Flint, Hoffman, & Parker, 2004; Etnier, Parker, Baxter, & Long, 2010; Zhou et al., 2011;  
     Parker & Bernard, 2021);  
 WI (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Tarter & Floyd, 2016).  
*Agapetus tricornutus* Etnier, Parker, & Baxter, 2010, in Etnier, Parker, Baxter, & Long, 2010, AL;  
 photos of female segment VIII (Parker & Bernard, 2021);  
 AL (Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021).  
*Agapetus vireo* Ross, 1941, GA;  
 male genitalia (Etnier, Parker, Baxter, & Long, 2010);  
 photo of female segment VIII (Parker & Bernard, 2021);  
 AL (Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);  
 GA (Ross, 1941; Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);

- TN (Ross, 1941; Edwards, 1966; Etnier & Schuster, 1979; Etnier, Baxter, Fraley, & Parker, 1998; Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021).
- Agapetus walkeri* (Betten & Mosely, 1940), *Synagapetus*, ON;  
*Agapetus rossi* Denning, 1941, MN (Etnier, Parker, Baxter, & Long, 2010);  
nomen nudum (Schmid, 1982; good name, Flint, pers comm);  
male genitalia (Leonard & Leonard, 1949);  
male & female genitalia (Schmid, 1982);  
photo & SEM of female segment VIII (Parker & Bernard, 2021);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
male genitalia (Etnier, Parker, Baxter, & Long, 2010; Houghton, 2012);  
AL (Harris, Lago, & O'Neil, 1984; Harris, 1987; Harris, & Lago, 1990; Harris, O'Neil, & Lago, 1991; Hicks & Haynes, 2000a; Etnier, Parker, Baxter, & Long, 2010; Myers, Kondratieff, Mihuc, & Ruiters 2011; Parker & Bernard, 2021);  
CT (Harris, O'Neil, & Lago, 1991; Nelson & Downs, 1995; Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);  
GA (Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);  
MA (Denning, 1948; Neves, 1979; Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);  
MD (Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);  
ME (Mingo & Gibbs, 1980; Bilger, 1986; Huryn & Harris, 2000; Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);  
MN (Denning, 1941; Etnier, 1965; Schmid, 1982; Houghton, Holzenthal, Monson, & MacLean, 2001; Etnier, Parker, Baxter, & Long, 2010; Myers, Kondratieff, Mihuc, & Ruiters 2011; Houghton, 2012; Parker & Bernard, 2021; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NB (Etnier, Parker, Baxter, & Long, 2010; Myers, Kondratieff, Mihuc, & Ruiters 2011; Parker & Bernard, 2021);  
NC (Harris, O'Neil, & Lago, 1991; Etnier, Parker, Baxter, & Long, 2010; Lenat, Ruiters, Parker, Robinson, Beaty, & Flint, 2010; Parker & Bernard, 2021);  
NH (Morse and Blickle, 1953; Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);  
NS (Schmid, 1982; Etnier, Parker, Baxter, & Long, 2010; Zhou et al., 2011; Parker & Bernard, 2021);  
NY (Myers, Kondratieff, Mihuc, & Ruiters 2011);  
ON (Betten and Mosely, 1940; Schmid, 1982; Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);  
PA (Masteller & Flint, 1992; Etnier, Parker, Baxter, & Long, 2010; Parker & Bernard, 2021);  
QC (Roy & Harper, 1979; Schmid, 1982);  
SC (Morse, et al, 1979; Parker & Bernard, 2021);  
TN (Etnier & Schuster, 1979; Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005; Etnier, Parker, Baxter, & Long, 2010; Zhou et al., 2011; Parker & Bernard, 2021);  
VA (Parker & Voshell, 1981; Schmid, 1982; Flint, Hoffman, & Parker, 2004; Etnier, Parker, Baxter, & Long, 2010; Zhou et al., 2011; Flint, 2014; Parker & Bernard, 2021)  
WV (Etnier, Parker, Baxter, & Long, 2010; Tarter & Floyd, 2016; Parker & Bernard, 2021).
- Anagapetus aisha* Denning 1964, CA;  
*Anagapetus* sp Erman, 1989, CA, (Ruiters, 2004);  
male & female genitalia (Ruiters, 2004);  
CA (Denning 1964; Denning, 1965; Ruiters, 2004; Resh & Mendez, 2022)  
NV (Ruiters, Baumann, & Flint, 2014).
- Anagapetus bernea* Ross, 1947, OR;  
case (Anderson & Bourne, 1974);  
larva, case (Wiggins, 1977);

- male & female genitalia (Schmid, 1982; Ruiter, 2004);  
 BC to CA (Schmid, 1982);  
 WA to CA (Denning, 1965);  
 BC (Ross and Spencer, 1952; Wiggins, 1977; Nimmo & Scudder, 1978;  
 Schmid, 1982);  
 CA (Denning, 1965; Schmid, 1982; Ruiter, 2004; Givens, 2014; Resh & Mendez, 2022);  
 NV (Ruiter, Baumann, & Flint, 2014);  
 OR (Ross, 1947; Denning, 1965; Anderson & Wold, 1972;  
 Anderson & Bourne, 1974; Anderson, 1976;  
 Anderson, Cooper, & Denning, 1982;  
 Anderson, Wisseman, & Courtney, 1984; Ruiter, 2004);  
 WA (Ross, 1951; Smith, 1981; Anderson & Wisseman, 1987; Ruiter, 2004;  
 Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013).
- Anagapetus chandleri* Ross, 1951, CA;  
*Anagapetus thirza* Denning, 1965, CA (Ruiter, 2004);  
 male genitalia (Denning, 1965);  
 male & female genitalia (Ruiter, 2004);  
 CA (Ross, 1951; Denning, 1965; Myers & Resh, 1999; Ruiter, 2004; Resh & Mendez, 2022).
- Anagapetus debilis* Ross, 1938, UT;  
 wings, male & female genitalia (Nimmo, 1974);  
 male & female genitalia (Schmid, 1982; Ruiter, 2004);  
 pupa (Genco & Morse, 2017);  
 OR to WA to CO to WY to MT (Denning, 1965);  
 AB (Denning, 1965; Nimmo, 1974; Schmid, 1982;  
 Williams & Williams, 1987);  
 BC (Ross, 1956; Nimmo, 1974; Nimmo & Scudder, 1978; Schmid, 1982;  
 Williams & Williams, 1987; Williams, 1991);  
 CA (Resh & Mendez, 2022);  
 CO (Ross, 1951; Nimmo, 1974; Schmid, 1982; Herrmann, Ruiter, & Unzicker, 1986;  
 DeWalt, Stewart, Moulton, & Kennedy, 1994; Ruiter, 1996; Ruiter, 2004;  
 Zuellig, Kondratieff, Ruiter, & Thorp, 2006;  
 Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 ID (Denning, 1965; Nimmo, 1974; Newell & Minshall, 1977; Schmid, 1982; Ruiter, 2004);  
 MT (Ross, 1951; Newell, 1970; Newell & Potter, 1973; Nimmo, 1974;  
 Roemhild, 1982; Schmid, 1982; Jones & Resh, 1988; Ruiter, 2004;  
 Genco & Morse, 2017);  
 NV (Ruiter, 2004; Ruiter, Baumann, & Flint, 2014);  
 OR (Ross, 1951; Denning, 1965; Nimmo, 1974; Anderson, 1976;  
 Schmid, 1982; Ruiter, 2004);  
 SD (Ruiter, 2004;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 UT (Ross, 1938; Denning, 1965; Nimmo, 1974;  
 Baumann & Unzicker, 1981; Schmid, 1982; Ruiter, 2004; Genco & Morse, 2017);  
 WA (Denning, 1965; Nimmo, 1974; Schmid, 1982; Ruiter, 2004; Blinn & Ruiter, 2013);  
 WY Ross, 1951; Nimmo, 1974; Schmid, 1982; Ruiter & Lavigne, 1985; Ruiter, 2004).
- Anagapetus hoodi* Ross, 1951, OR;  
 wings, male genitalia (Schmid, 1980);  
 wings, male & female genitalia (Schmid, 1982);  
 adult mesepisternum, head, pronotum, mesonotum, male & female genitalia (Ruiter, 2004);  
 BC (Nimmo & Scudder, 1978; Schmid, 1982);  
 OR ( Ross, 1951; Denning, 1965; Anderson, 1976; Schmid, 1982; Ruiter, 2004);  
 WA (Denning, 1965; Schmid, 1982; Ruiter, 2004;  
 Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013).
- Culoptila cantha* (Ross, 1938), Protoptila, WY;



- male & female genitalia (Schmid, 1982);  
pupa & larva (Houghton & Stewart, 1998);  
AZ (Flint, 1974; Schmid, 1982; Houghton, 2001; Blahnik & Holzenthal, 2006;  
Blinn & Ruiter, 2006; Blinn & Ruiter, 2009a; Blinn, Ruiter, & Haden, 2012);  
CO (Flint, 1974; Schmid, 1982; Herrmann, Ruiter, & Unzicker, 1986;  
Ruiter, 1990; Blahnik & Holzenthal, 2006);  
ID (Ross, 1938; Schmid, 1982);  
MD (Ross, 1938; Wiggins, 1977; Schmid, 1982);  
ME (Blickle & Morse 1966; Flint, 1974; Wiggins, 1977;  
Schmid, 1982);  
MT (Newell, 1970; Roemhild, 1982);  
NM (Flint, 1974; Schmid, 1982; Blahnik & Holzenthal, 2006);  
NV (Ruiter, Baumann, & Flint, 2014);  
SK (Schmid, 1982);  
TX (Moulton & Stewart, 1997; Houghton & Stewart, 1998; Blahnik & Holzenthal, 2006);  
UT (Baumann & Unzicker, 1981; Schmid, 1982);  
VA (Flint, Hoffman, & Parker, 2004);  
WA (Newell, Ruiter, & Strenge, 2001; Zack, Ruiter, Strenge, & Landolt, 2006);  
WY (Ross, 1938; Wiggins, 1977; Schmid, 1982;  
Ruiter & Lavigne, 1985; Blahnik & Holzenthal, 2006).
- Culoptila kimminsi* Denning, 1965, AZ;  
AZ (Denning, 1965; Moulton, Stewart, & Young, 1994; Ruiter, 1996;  
Houghton, 2001; Blinn & Ruiter, 2006; Blinn & Ruiter, 2009b).
- Culoptila moselyi* Denning, 1965, AZ;  
larva, case (Wiggins, 1977; Robertson & Holzenthal, 2013);  
AZ (Denning, 1965; Wiggins, 1977;  
Moulton, Stewart, & Young, 1994; Houghton, 2001; Blinn & Ruiter, 2006;  
Blinn & Ruiter, 2009a; Blinn & Ruiter, 2009b).
- Culoptila plummerensis* Blahnik & Holzenthal, 2006, MD;  
MD (Blahnik & Holzenthal, 2006);  
ME (Blahnik & Holzenthal, 2006);  
NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
VA (Flint, Hoffman, and Parker, 2004, as *C cantha*; Flint, Hoffman, & Parker, 2008).
- Culoptila thoracica* (Ross, 1938), *Prooptila*, WY;  
AZ (Houghton, 2001; Blahnik & Holzenthal, 2006; Blinn & Ruiter, 2006);  
CO (Flint, 1974; Herrmann, Ruiter, & Unzicker, 1986; Ruse & Herrmann, 2000;  
Blahnik & Holzenthal, 2006; Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
NC (Wray, 1950, doubtful record without voucher according to Bob Blinn, personal  
communication 6 Jan 2006, and Blahnik & Holzenthal, 2006; Wiggins, 1977, doubtful  
record);  
NM (Waltz & McCafferty, 1983; Blahnik & Holzenthal, 2006);  
UT (Baumann & Unzicker, 1981);  
WY (Ross, 1938; Wiggins, 1977; Ruiter & Lavigne, 1985)  
Mexico (Chihuahua, Michoacan, Blahnik & Holzenthal, 2006).
- Glossosoma (Ripaeglossa) alascense* Banks, 1900, AK;  
wings, male & female genitalia (Nimmo, 1974);  
male genitalia (Schmid, 1980);  
male & female genitalia (Schmid, 1982);  
AK to UT to MT to OR (Nimmo, 1974; Schmid, 1982);  
YT, AK, south to UT (Wiggins & Parker 1997);  
AB (Nimmo, 1974);  
AK (Banks, 1900; Nimmo, 1974; Vineyard, 1982; Schmid, 1982;  
Irons, 1988; Wiggins & Parker 1997);

BC (Nimmo, 1974; Nimmo & Scudder, 1978; Nimmo & Scudder, 1983);  
 CA (Erman, 1989; Resh & Mendez, 2022);  
 CO (Herrmann, Ruitter, & Unzicker, 1986, but doubtful according to  
 Zuellig, Heinold, Kondratieff, & Ruitter, 2012);  
 ID (Nimmo, 1974; Newell & Minshall, 1977);  
 MT (Newell, 1970; Newell & Potter, 1973; Nimmo, 1974;  
 Roemhild, 1982; Schmid, 1982);  
 NV (Ruitter, Baumann, & Flint, 2014);  
 OR (Nimmo, 1974; Anderson, 1976; Schmid, 1982);  
 UT (Knowlton and Harmston, 1939; Nimmo, 1974;  
 Baumann & Unzicker, 1981; Schmid, 1982);  
 WA (Nimmo, 1974; Ruitter, Kondratieff, Lechleitner, & Zuellig, 2005);  
 WY (Ross, 1956; Lavigne, 1970; Nimmo, 1974;  
 Ruitter & Lavigne, 1985; Ruitter, 1996);  
 YT (Nimmo, 1974; Nimmo & Wickstrom, 1984; Wiggins & Parker 1997).  
*Glossosoma (Ripaeglossa) bruna* Denning, 1954, CA;  
 CA (Denning, 1954; Resh & Mendez, 2022);  
 OR (Anderson, 1976).  
*Glossosoma (Ripaeglossa) califica* Denning, 1948, CA;  
 male & female genitalia (Denning, 1968);  
 CA (Denning, 1948; Leland, Fend, Carter, & Mahood, 1986; McElravy & Resh, 1987;  
 Givens, 2014; Resh & Mendez, 2022);  
 OR (Ross, 1956; Anderson, 1976; Anderson, Cooper, & Denning, 1982);  
 UT (Baumann & Unzicker, 1981).  
*Glossosoma (Ripaeglossa) excitum* Ross, 1938, OR;  
 male & female genitalia (Schmid, 1982);  
 BC (Nimmo & Scudder, 1978; Nimmo & Scudder, 1983; Schmid, 1982);  
 CA (Resh & Mendez, 2022);  
 MT (Ross, 1956; Newell, 1970; Roemhild, 1982; Schmid, 1982);  
 OR (Ross, 1938; Anderson, 1967; Anderson, 1976; Schmid, 1982);  
 WA (Ross, 1956; Schmid, 1982).  
*Glossosoma (Ripaeglossa) idaho* Ross, 1941, ID;  
 male genitalia (Schmid, 1982);  
 ID (Ross, 1941; Newell & Minshall, 1977; Schmid, 1982);  
 MT (Ross, 1956; Newell, 1970; Roemhild, 1982; Schmid, 1982).  
*Glossosoma (Synafophora) intermedium* (Klapálek, 1892), *Mystrophora*, Europe;  
 male & female genitalia (Ross, 1944; Ross, 1956);  
 larva, pupa (Lepneva, 1964/70);  
 larva, pupal case (Hickin, 1967);  
 internal female genitalia (Unzicker, 1968);  
 wings, male & female genitalia (Nimmo, 1974);  
 photo of case (Anderson, 1980);  
 wings, hindleg & spurs, male & female genitalia  
 (Tobias & Tobias, 1981);  
 hind spur, male & female genitalia (Schmid, 1982);  
 male genitalia & photo of adult (Houghton, 2012);  
 photo of larva (Ruitter, Boyle, & Zhou, 2013);  
 Holarctic, transcontinental in North America south to IL and MO  
 (Schmid, 1980; Schmid, 1982);  
 Holarctic, eastern & central North America to BC (Wiggins, 1977);  
 YT to MT, QC, TN, central Europe to Finland and the northern part  
 of European Russia, eastward through Siberia to Chukotka and  
 Kamchatka (Wiggins & Parker 1997);  
 AB (Nimmo, 1974; Schmid, 1982; Moulton & Stewart, 1996);  
 AK (Kendrick & Hury, 2014);

BC (Nimmo, 1974; Wiggins, 1977; Nimmo & Scudder, 1978;  
     Nimmo & Scudder, 1983; Schmid, 1982;  
     Moulton & Stewart, 1996);  
 IA (Blinn, Ruiter, & Flint, 2009;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ID (Newell & Minshall, 1977);  
 IL (Nimmo, 1974; Vinikour & Anderson, 1981; Schmid, 1982; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Moulton & Stewart, 1996;  
     Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MB (Schmid, 1982; Cobb, Flannagan, & Friesen, 1984;  
     Wetmore, Mackay, & Newbury, 1990; Moulton & Stewart, 1996;  
     Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruiter, Boyle, & Zhou, 2013;  
     Chatila-Amos, 2021);  
 ME (Bilger, 1986; Moulton & Stewart, 1996);  
 MI (Ellis, 1962; Moulton & Stewart, 1996; Houghton, Brandin, & Brakel, 2011;  
     DeWalt & South, 2015;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton, 2022;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Nimmo, 1974; Moulton & Stewart, 1996;  
     Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001;  
     Houghton & Holzenthal, 2010; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Nimmo, 1974; Schmid, 1982; Mathis & Bowles, 1992; Moulton & Stewart, 1996;  
     Ferro & Sites, 2007;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Roemhild, 1982; Wiggins & Parker 1997;  
     Moulton & Stewart, 1996);  
 NF (Marshall & Larson, 1982; Moulton & Stewart, 1996);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Garono & MacLean, 1988; Moulton & Stewart, 1996; Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Schmid, 1982; Moulton & Stewart, 1996);  
 PA (Light & Adler, 1983; Glazier & Gooch, 1987;  
     Masteller & Flint, 1992; Moulton & Stewart, 1996);  
 QC (Roy & Harper, 1979; Williams & Williams, 1979; Schmid, 1982;  
     Harper, 1989; Wiggins & Parker 1997;  
     Moulton & Stewart, 1996);  
 TN (Edwards, 1966; record doubtful according to  
     Etnier & Schuster, 1979; Moulton & Stewart, 1996;  
     Wiggins & Parker 1997; Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Flint, Hoffman, & Parker, 2004);  
 VT (Wimmer, 1979; Moulton & Stewart, 1996);  
 WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
     Karl & Hilsenhoff, 1979; Steven & Hilsenhoff, 1984; Hilsenhoff, 1995;  
     Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 YT (Schmid, 1982; Nimmo & Wickstrom, 1984; Wiggins & Parker 1997;  
     Moulton & Stewart, 1996);  
 Britain (Hickin, 1967);  
 Europe, Kamchatka (Martynov, 1914; Lepneva, 1964/70);

Levanidova 1975; Levanidova 1982);  
 Europe (Klapálek, 1892; Tobias & Tobias, 1981).  
*Glossosoma* (*Synafophora*) *lividum* (Hagen, 1861), Tinodes, Canada;  
*Glossosoma americana* Banks, 1897, NH (Ross, 1956);  
 adult palps, foreleg, midtibial apical spurs; wings  
 (Schmid, 1980);  
 male & female genitalia (Schmid, 1980);  
 wings, palps, foreleg, hind spur, male & female genitalia  
 (Schmid, 1982);  
 Canada (Hagen, 1861);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 MA (Neves, 1979);  
 ME (Blickle & Morse, 1966; Mingo & Gibbs, 1980; Bilger, 1986; Huryn & Harris, 2000);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Banks, 1897);  
 NY (Lloyd, 1921, Betten, 1934);  
 ON (Ricker, 1932; Schmid, 1980; Schmid, 1982; Harper, 1989);  
 QC (Robert, 1958; Corbet, 1966; Corbet, Schmid, & Augustin, 1966;  
 Roy & Harper, 1975; Roy & Harper, 1979; Schmid, 1980;  
 Schmid, 1982; Harper, 1989);  
 TN (Edwards, 1966, dubious according to Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Flint, Hoffman, & Parker, 2004);  
 VT (Wimmer, 1979).  
*Glossosoma* (*Ripaeglossa*) *mereca* Denning, 1948, CA;  
 CA (Denning, 1948; Resh & Mendez, 2022).  
*Glossosoma* (*Ripaeglossa*) *montanum* Ross, 1941, MT;  
 male & female genitalia (Schmid, 1982);  
 OR to MT (Anderson, 1976);  
 ID (Newell & Minshall, 1977; Schmid, 1982);  
 MT (Ross, 1941; Newell, 1970; Newell & Potter, 1973;  
 Anderson, 1976; Roemhild, 1982; Schmid, 1982);  
 OR (Anderson, 1967; Anderson, 1976; Schmid, 1982);  
 UT (Ross, 1956; Baumann & Unzicker, 1981);  
 WA (Ross, 1956; Schmid, 1982);  
 WY (Ross, 1956; Harris & Lawrence, 1978; Ruitter & Lavigne, 1985).  
*Glossosoma* (*Synafophora*) *nigrior* Banks, 1911, NC;  
*Eomystra unica* Denning, 1942 (Ross, 1944);  
 hind spur, male & female genitalia (Schmid, 1982);  
 adult protibia, male & female genitalia (Marshall & Larson, 1982);  
 larva, pupa (Neubauer & Robertson, 1985);  
 male genitalia (Houghton, 2012);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris, Lago, & O'Neil, 1984; Harris, 1987; Harris, & Lago, 1990;  
 Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Hicks & Haynes, 2000a);  
 CT (Nelson, 1987; Nelson & Downs, 1995);  
 DE (Lake, 1984);  
 GA (Schmid, 1982);  
 IN (Waltz & McCafferty, 1983;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Floyd & Schuster, 1990; Etnier, Bauer, & Zirkle, 2006;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LB (Wiggins, 1961);

- MA (Neves, 1979; Schmid, 1982; Whitmore 2008);  
MD (Schmid, 1982);  
ME (Mingo & Gibbs, 1980; Bilger, 1986; Huryñ & Harris, 2000);  
MI (Leonard and Leonard, 1949; Ellis, 1962; Schmid, 1982;  
Oemke, 1984; Oemke, 1987; Houghton, Brandin, & Brakel, 2011;  
DeWalt & South, 2015; Houghton, 2015; Houghton, 2016;  
Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiten, Bright, Hudson, & Armitage, 2018;  
Houghton & Lardner, 2020; Houghton, 2022;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MN (Denning, 1942; Etnier, 1965; Wiggins, 1977; Schmid, 1982; MacLean, 1995;  
Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton & Holzenthal, 2010;  
Zhou et al., 2011; Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MS (Etnier, 2010);  
NB (Zhou et al., 2011);  
NC (Banks, 1911; Penrose, Lenat, & Eagleson, 1982; Schmid, 1982;  
Armitage & Tennesen, 1984; Neubauer & Robertson, 1985;  
Morse, Hamilton, & Hoffman, 1989; Floyd, Morse, & Harris, 1997;  
Lenat, Ruiten, Parker, Robinson, Beaty, & Flint, 2010; Park, 2018);  
NF (Schmid, 1980; Schmid, 1982; Marshall & Larson, 1982);  
NH (Morse and Blickle, 1953; Schmid, 1982);  
NY (Zhou et al., 2011; Myers, Kondratieff, Mihuc, & Ruiten, 2011);  
OH (McElravy, Arsuffi, & Foote, 1977; Huryñ & Foote, 1983; Garono & MacLean, 1988;  
Uis & Foote, 1989; Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
ON (Schmid, 1980; Schmid, 1982; Williams, Tavares, & Bryant, 1987; Harper, 1989;  
Cordero, Sánchez-Ramírez, & Currie, 2017);  
PA (Masteller & Flint, 1980; Masteller & Flint, 1984;  
Swegman, Walker, & Sykora, 1981; Masteller & Flint, 1992;  
Hoenig, Trevelline, Nuttle, & Porter, 2021);  
QC (Corbet, Schmid, & Augustin, 1966; Nimmo, 1966;  
Roy & Harper, 1979; Schmid, 1982; Harper, 1989);  
SC (Schmid, 1982; Neubauer & Robertson, 1985;  
Morse, Hamilton, & Hoffman, 1989; Floyd & Morse, 1993;  
Floyd, Morse, & Harris, 1997);  
TN (Etnier & Schuster, 1979; Schmid, 1982; Etnier, Baxter, Fraley, & Parker, 1998;  
Hamilton, Hamilton, & Lyle, 2002; DeWalt & Heinold, 2005;  
Etnier, Bauer, & Zirkle, 2006; DeWalt, Jacobus, & McCafferty, 2007; Zhou et al., 2011);  
VA (Parker & Voshell, 1981; Schmid, 1982; Trapp & Hendricks, 1984;  
Flint, Hoffman, & Parker, 2004; Zhou et al., 2011; Flint, 2011);  
VT (Wimmer, 1979);  
WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
Steven & Hilsenhoff, 1984; Hilsenhoff, 1995; Hilsenhoff, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
WV (Tarter, 1990; Griffith & Perry, 1992; Tarter & Floyd, 2016).  
Glossosoma (Ripaeglossa) oregonense Ling, 1938, OR;  
CA (Denning, 1954; McElravy & Resh, 1987; Resh & Mendez, 2022);  
NV (Denning, 1954; Ruiten, Baumann, & Flint, 2014);  
OR (Ling, 1938; Anderson, 1976; Anderson, Cooper, & Denning, 1982).  
Glossosoma (Ripaeglossa) parvulum Banks, 1904, NM;  
male & female genitalia (Schmid, 1982);  
Rocky Mountains of ID & MT to NM (Schmid, 1982);  
CO (Ward, 1981; Herrmann, Ruiten, & Unzicker, 1986; Ward, 1986;  
Ruiten, 1996; Ruse & Herrmann, 2000);  
ID (Ross, 1956; Schmid, 1982);

- MT (Roemhild, 1982; Schmid, 1982);  
 NM (Banks, 1904; Schmid, 1982);  
 SD (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 UT (Baumann & Unzicker, 1981);  
 WY (Ross, 1956; Ruiter & Lavigne, 1985).
- Glossosoma* (*Glossosoma*) *penitum* Banks, 1914, BC;  
 case (Anderson & Bourne, 1974);  
 male genitalia (Schmid, 1980);  
 male & female genitalia (Schmid, 1982);  
 AK (Ellis, 1978; Vineyard, 1982; Schmid, 1982);  
 BC (Banks, 1914; Gibson, 1915; Schmid & Guppy 1952; Ross & Spencer, 1952;  
 Nimmo & Scudder, 1978; Nimmo & Scudder, 1983; Schmid, 1980; Schmid, 1982);  
 CA (Schmid, 1982; Resh & Mendez, 2022);  
 ID (Schmid, 1982);  
 MT (Newell, 1970; Newell & Potter, 1973; Roemhild, 1982);  
 OR (Ross and Spencer, 1952; Anderson & Wold, 1972;  
 Anderson & Bourne, 1974; Anderson, 1976; Schmid, 1982;  
 Anderson, Cooper, & Denning, 1982; Anderson, Wisseman, & Courtney, 1984;  
 Anderson & Hansen, 1987);  
 WA (Smith, 1981; Schmid, 1982; Anderson & Wisseman, 1987;  
 Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013).
- Glossosoma* (*Ripaeglossa*) *pternum* Ross, 1947, CA;  
 male genitalia (Nimmo, 1974);  
 AB (Nimmo, 1974);  
 CA (Ross, 1947; Nimmo, 1974; Resh & Sorg, 1978; Resh & Mendez, 2022);  
 NV (Ruiter, Baumann, & Flint, 2014);  
 OR (Anderson, 1976)  
 WA (Blinn & Ruiter, 2013).
- Glossosoma* (*Ripaeglossa*) *pyroxum* Ross, 1941, OR;  
 male & female genitalia (Schmid, 1982);  
 BC (Ross and Spencer, 1952; Schmid, 1982; Nimmo & Scudder, 1983);  
 OR (Ross, 1941; Anderson, 1976; Schmid, 1982;  
 Anderson, Cooper, & Denning, 1982);  
 WA (Ross, 1956; Schmid, 1982; Anderson & Wisseman, 1987; Blinn & Ruiter, 2013).
- Glossosoma* (*Ripaeglossa*) *schuhi* Ross, 1947, OR;  
 male genitalia (Schmid, 1982);  
 ID (Ross, 1956; Newell & Minshall, 1977; Schmid, 1982);  
 NV (Ruiter, Baumann, & Flint, 2014);  
 OR (Ross, 1947; Anderson, 1976; Schmid, 1982);  
 UT (Baumann & Unzicker, 1981).
- Glossosoma* (*Ripaeglossa*) *sequoia* Denning, 1973, CA;  
 CA (Denning, 1973; Resh & Mendez, 2022).
- Glossosoma* (*Synafophora*) *spinatum* Ruiter, 2000, NF;  
 NF (Ruiter, 2000);  
 QC (Ruiter, 2000).
- Glossosoma* (*Ripaeglossa*) *traviatum* Banks, 1936, WA;  
 photos of larva, pupa, cases (Anderson, 1976);  
 male & female genitalia (Schmid, 1982);  
 ID (Ross, 1956; Newell & Minshall, 1977; Schmid, 1982);  
 MT (Ross, 1956; Newell, 1970; Newell & Potter, 1973;  
 Roemhild, 1982; Schmid, 1982);  
 OR (Ross, 1956; Anderson, 1976; Schmid, 1982;  
 Anderson & Hansen, 1987);  
 UT (Baumann & Unzicker, 1981);  
 WA (Banks, 1936; Smith, 1981; Schmid, 1982; Blinn & Ruiter, 2013);

- WY (Ross, 1956; Schmid, 1982; Ruiters & Lavigne, 1985).
- Glossosoma (Ripaeglossa) velonum* Ross, 1938, WA;  
wings, male & female genitalia (Nimmo, 1974);  
male & female genitalia (Schmid, 1982);  
NT to UT to MT to Pacific (Nimmo, 1974; Schmid, 1982);  
AB (Nimmo, 1974);  
BC (Ross and Spencer, 1952; Nimmo, 1974; Nimmo & Scudder, 1978);  
CO (Swegman & Ferrington, 1980; Herrmann, Ruiters, & Unzicker, 1986;  
Zuellig, Heinold, Kondratieff, & Ruiters, 2012);  
ID (Nimmo, 1974; Newell & Minshall, 1977);  
MB (Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruiters, Boyle, & Zhou, 2013);  
MT (Ross, 1938; Newell, 1970; Newell & Potter, 1973; Nimmo, 1974;  
Roemhild, 1982; Schmid, 1982);  
NT (Nimmo, 1974; Nimmo, 1986; Schmid, 1982);  
OR (Ross, 1938; Nimmo, 1974; Anderson, 1976;  
Anderson, Cooper, & Denning, 1982);  
UT (Ross, 1956; Nimmo, 1974; Baumann & Unzicker, 1981;  
Schmid, 1982);  
WA (Ross, 1938; Nimmo, 1974; Newell, Ruiters, & Strenge, 2001;  
Zack, Ruiters, Strenge, & Landolt, 2006);  
WY (Ross, 1956; Ruiters & Lavigne, 1985)  
YT (Ruiters, 1999).
- Glossosoma (Ripaeglossa) ventrale* Banks, 1904, NM;  
AZ (Ross, 1956; Moulton, Stewart, & Young, 1994; Ruiters, 1996; Houghton, 2001;  
Blinn & Ruiters, 2006);  
CO (Dodds and Hisaw, 1925; Canton & Ward, 1981; Herrmann, Ruiters, & Unzicker, 1986;  
Ruse & Herrmann, 2000; Zuellig, Heinold, Kondratieff, & Ruiters, 2012);  
NM (Banks, 1904; Vieira, Kondratieff, Ruiters, & Durfee, 2009);  
SD (Ruiters, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
UT (Baumann & Unzicker, 1981);  
WY (Ross, 1956; Ruiters & Lavigne, 1985);  
Mexico (Flint, 1967).
- Glossosoma (Synafophora) verdonum* Ross, 1938, WY;  
wings, male & female genitalia (Nimmo, 1974);  
hind spur, male & female genitalia (Schmid, 1982);  
YT, AK, south to CA and UT (Wiggins & Parker 1997);  
AB (Nimmo, 1974; Schmid, 1980; Schmid, 1982);  
AK (Schmid, 1980; Schmid, 1982; Vineyard, 1982; Irons, 1988;  
Wiggins & Parker 1997);  
BC (Nimmo, 1974; Nimmo & Scudder, 1978; Nimmo & Scudder, 1983;  
Schmid, 1980; Schmid, 1982);  
CA (Schmid, 1982; Wiggins & Parker 1997);  
CO (Herrmann, Ruiters, & Unzicker, 1986; Poff & Ward, 1988;  
DeWalt, Stewart, Moulton, & Kennedy, 1994; Ruse & Herrmann, 2000;  
Zuellig, Kondratieff, Ruiters, & Thorp, 2006;  
Zuellig, Heinold, Kondratieff, & Ruiters, 2012);  
ID (Nimmo, 1974; Newell & Minshall, 1977);  
MT (Newell, 1970; Newell & Potter, 1973; Roemhild, 1982;  
Schmid, 1982);  
NM (Schmid, 1982);  
OR (Anderson, 1976; Schmid, 1982);  
UT (Ross, 1938; Nimmo, 1974; Baumann & Unzicker, 1981;  
Schmid, 1982; Wiggins & Parker 1997);  
WA (Ruiters, Kondratieff, Lechleitner, & Zuellig, 2005);

- WY (Ross, 1938; Nimmo, 1974; Schmid, 1982;  
Ruiter & Lavigne, 1985; Duffield, Flint, & Nelson, 1995);  
YT (Wiggins & Parker 1997).
- Glossosoma (Ripaeglossa) wenatchee* Ross and Spencer, 1952, WA;  
male & female genitalia (Schmid, 1982);  
BC (Ross & Spencer, 1952; Ross, 1956; Nimmo & Scudder, 1978;  
Schmid, 1982; Williams & Williams, 1987);  
CA (Resh & Mendez, 2022);  
OR (Ross & Spencer, 1952; Ross, 1956; Anderson, 1976;  
Schmid, 1982);  
WA (Ross and Spencer, 1952; Ross, 1956; Smith, 1981;  
Schmid, 1982; Blinn & Ruiter, 2013);  
YT (Ross, 1956; Schmid, 1982; doubtful record,  
Nimmo & Wickstrom, 1984).
- Padunia jeanae* (Ross, 1938), Protophila, TN;  
larva, pupa (Flint, 1962);  
larva, case (Wiggins, 1977);  
male & female genitalia, wings (Robertson & Holzenthal, 2013);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
AL (Harris, Lago, & O'Neil, 1984; Harris, 1987;  
Harris & Lago, 1990; Harris, O'Neil, & Lago, 1991);  
GA (Wiggins, 1977; Zhou et al., 2011);  
KY (Ross, 1938; Resh, 1975; Floyd & Schuster, 1990;  
Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NC (Ross, 1938; Penrose, Lenat, & Eagleson, 1982;  
Morse, Hamilton, & Hoffman, 1989);  
SC (Flint, 1962; Wiggins, 1977);  
TN (Ross, 1938; Wiggins, 1977; Etnier, Baxter, Fraley, & Parker, 1998; Zhou et al., 2011);  
VA (Parker & Voshell, 1981; Flint, Hoffman, & Parker, 2004).
- Protophila alexanderi* Ross, 1941, TX;  
KY (Resh, 1975; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
TX (Ross, 1941; Edwards & Arnold, 1961; Moulton & Stewart, 1997; Houghton & Stewart, 1998;  
Bowles, Tiemann & Easley, 2007);  
Mexico (Mosely, 1954).
- Protophila arca* Edwards & Arnold, 1961, TX  
pupal mandible (Edwards & Arnold, 1961);  
TX (Edwards & Arnold, 1961; Moulton & Stewart, 1997; Bowles, Tiemann & Easley, 2007).
- Protophila balmorhea* Ross, 1941, TX;  
AZ (Moulton, Stewart, & Young, 1994; Blinn & Ruiter, 2006; Blinn & Ruiter, 2009b);  
TX (Ross, 1941; Moulton, Stewart, & Young, 1994; Moulton & Stewart, 1997).
- Protophila cahabensis* Harris, 1989, AL;  
AL (Harris, 1989; Harris & Lago, 1990; Harris, 1990;  
Harris, O'Neil, & Lago, 1991; Morse et al, 1997).
- Protophila coloma* Ross, 1941, CA;  
male & female genitalia (Schmid, 1982);  
CA (Ross, 1941; Schmid, 1982; Resh & Mendez, 2022);  
CO (Ross, 1941; Schmid 1982; Herrmann, Ruiter, & Unzicker, 1986;  
Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
ID (Newell & Minshall, 1977);  
MT (Ross, 1941; Roemhild, 1982; Schmid, 1982);  
NV (Ruiter, Baumann, & Flint, 2014);



- OR (Schmid, 1982);  
 UT (Baumann & Unzicker, 1981);  
 WA (Zack, Ruiters, Strenge, & Landolt, 2006; Blinn & Ruiters, 2013)  
 WY (Ruiters, 1999).
- Protophila erotica* Ross, 1938, WY;  
 wings (Schmid, 1980);  
 wings, male & female genitalia (Schmid, 1982);  
 male genitalia (Houghton, 2012);  
 AZ (Houghton, 2001; Blinn & Ruiters, 2006; Blinn & Ruiters, 2009a; Blinn & Ruiters, 2009b);  
 CA (Resh & Mendez, 2022);  
 CO (Herrmann, Ruiters & Unzicker, 1986);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1938; Schmid, 1982;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MB (Flannagan, 1978; Flannagan & Flannagan, 1982);  
 MI (Leonard and Leonard, 1949; Houghton, Brandin, & Brakel, 2011; Houghton, 2016;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiters, Bright, Hudson, & Armitage, 2018;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Schmid, 1982;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Roemhild, 1982);  
 NM (Schmid, 1982; Waltz & McCafferty, 1983);  
 NV (Ruiters, Baumann, & Flint, 2014);  
 QC (Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1979;  
     Schmid, 1982);  
 UT (Baumann & Unzicker, 1981; Schmid, 1982);  
 WA (Newell, Ruiters, & Strenge, 2001; Zack, Ruiters, Strenge, & Landolt, 2006);  
 WI (Ross, 1938; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
     Schmid, 1982; Lillie & Hilsenhoff, 1992; Hilsenhoff, 1995;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WY (Ross, 1938; Schmid, 1982; Ruiters & Lavigne, 1985).
- Protophila georgiana* Denning, 1948, GA;  
 AL (Harris & Lago, 1990; Harris, 1990;  
     Harris, O'Neil, & Lago, 1991; Morse et al, 1997);  
 GA (Denning, 1948; Morse et al, 1997);  
 MD (Flint, 2008);  
 NC (Lenat, Ruiters, Parker, Robinson, Beaty, & Flint, 2010);  
 VA (Parker & Voshell, 1981; Morse et al, 1997; Flint, Hoffman, & Parker, 2004; Flint, 2011).
- Protophila lega* Ross, 1941, IL;  
 male & female genitalia (Schmid, 1982);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris, Lago, & O'Neil, 1984; actually *P. palina* according to  
     Harris, O'Neil, and Lago 1991; Moulton & Stewart, 1996);  
 AR (Unzicker, Aggus, & Warren, 1970; Bowles & Mathis, 1989; Moulton & Stewart, 1996;  
     Bowles, Cheri, Usrey, & Williams, 2020);  
 IL (Ross, 1941; Schmid, 1982; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Ross, 1941; Schmid, 1982; Mathis & Bowles, 1992; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Harris, Lago, & Holzenthal, 1982);  
 NB (Schmid, 1982; Moulton & Stewart, 1996);  
 NC (Lenat, Ruiters, Parker, Robinson, Beaty, & Flint, 2010);

OH (McElravy, Arsuffi, & Foote, 1977, doubtful record,  
Hury & Foote, 1983; Moulton & Stewart, 1996);  
OK (Bowles & Mathis, 1992; Moulton & Stewart, 1996);  
ON (Schmid, 1982; Moulton & Stewart, 1996);  
VA (Flint, Hoffman, & Parker, 2004);  
WI (Ross, 1941; Hilsenhoff, 1975; not in WI, Hilsenhoff, 1981;  
Schmid, 1982; Moulton & Stewart, 1996).

*Protophila maculata* (Hagen, 1861), Borea ?, Canada;  
*Protophila expositionis* Nimmo, 1966, QC (Schmid, 1982);  
*Protophila lloydi* Mosely, 1934 (Milne, 1936);  
female genitalia (Schmid, 1980);  
male & female genitalia (Schmid, 1982);  
male genitalia & photo of adult (Houghton, 2012);  
pupa (Genco & Morse, 2017);  
wings (Robertson & Holzenthal, 2013);  
Canada (Hagen, 1861);  
AL (Harris & Lago, 1990; Harris, O'Neil, & Lago, 1991;  
Moulton & Stewart, 1996);  
AR (Unzicker, Aggus, & Warren, 1970; Bowles & Mathis, 1989;  
Moulton & Stewart, 1996);  
DC (Banks, 1904; Ross, 1944; Schmid, 1982);  
IL (Ross, 1944; Schmid, 1982; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
IN (Ross, 1944; Schmid, 1982; Waltz & McCafferty, 1983;  
DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
KY (Ross, 1944; Resh, 1975; Schmid, 1982; Haag, Resh, & Neff, 1984; Floyd & Schuster, 1990;  
Etnier, Bauer, & Zirkle, 2006; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MA (Neves, 1979);  
MB (Flannagan, 1978; Flannagan & Flannagan, 1982;  
Moulton & Stewart, 1996);  
MD (Harris, O'Neil, & Lago, 1991);  
ME (Blickle & Morse, 1966; Mingo & Gibbs, 1980; Bilger, 1986; Hury & Harris, 2000;  
Genco & Morse, 2017);  
MI (Davis, Hudson, & Armitage, 1991; Houghton, Brandin, & Brakel, 2011;  
Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
Houghton & Lardner, 2020;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MN (Etnier, 1965; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NC (Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
NH (Morse and Blickle, 1953; Moulton & Stewart, 1996);  
NY (Ulmer 1907; Schmid, 1982; Moulton & Stewart, 1996; Genco & Morse, 2017; Tozer, 2018);  
OH (Hury & Foote, 1981; Hury & Foote, 1983; Garono & MacLean, 1988;  
Moulton & Stewart, 1996; Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
OK (Bowles & Mathis, 1992; Moulton & Stewart, 1996);  
ON (Munroe, 1951; Schmid, 1982; Moulton & Stewart, 1996);  
PA (Ross, 1944; Schmid, 1982; Masteller & Flint, 1992;  
Moulton & Stewart, 1996);  
QC (Nimmo, 1966; Corbet, 1966; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1979;  
Schmid, 1982; Moulton & Stewart, 1996; Genco & Morse, 2017; Lonsdale, 2020);

- TN (Edwards, 1966; Etnier & Schuster, 1979;  
Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998;  
Etnier, Bauer, & Zirkle, 2006);
- TX (Edwards, 1973; Moulton & Stewart, 1996;  
Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997; Bowles, Tiemann &  
Easley, 2007);
- VA (Parker & Voshell, 1981; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004);
- WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hilsenhoff, 1981;  
Hilsenhoff, 1995; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- WV (Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016).
- Protoptila moretii* Morse, 1990, SC;  
NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
SC (Morse, 1990).
- Protoptila palina* Ross, 1941, KY;  
NC/SC (Unzicker, Resh, & Morse, 1982);  
AL (Harris, 1987; Harris & Lago, 1990;  
Harris, O'Neil, & Lago, 1991);  
IN (Waltz & McCafferty, 1983;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
KY (Ross, 1941; Resh, 1975; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MA (Neves, 1979);  
MD (Flint, 2008);  
ME (Blickle & Morse, 1966);  
NC (Harris, O'Neil, & Lago, 1991; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
NH (Morse & Blickle, 1953);  
NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
PA (Ross, 1941; Masteller & Flint, 1992);  
SC (Forsythe & Ezell, 1979; Unzicker, Resh, & Morse, 1982);  
TN (Etnier & Schuster, 1979; Etnier, Baxter, Fraley, & Parker, 1998);  
VA (Parker & Voshell, 1981; Hoffman & Parker, 1997; Flint, Hoffman, & Parker, 2004;  
Flint, 2011);  
WV (Ross, 1941; Ross, 1944; Tarter, 1990; Tarter & Floyd, 2016).
- Protoptila talola* Denning, 1948, MN;  
MN (Denning, 1948; Etnier, 1965;  
Houghton, Holzenthal, Monson, & MacLean, 2001;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Protoptila tenebrosa* (Walker, 1852), *Hydroptila*, ON;  
wings, male & female genitalia (Nimmo, 1974);  
adult male sternum VIII, genitalia (Schmid, 1980);  
male & female genitalia (Schmid, 1982);  
male genitalia (Houghton, 2012);  
ON to AR, ID, AB (Nimmo, 1974);  
AB (Nimmo, 1974; Schmid, 1982; Moulton & Stewart, 1996);  
AR (Ross, 1944; Unzicker, Aggus, & Warren, 1970; Nimmo, 1974;  
Schmid, 1982; Bowles & Mathis, 1989;  
Moulton & Stewart, 1996);  
BC (Nimmo & Scudder, 1983; Moulton & Stewart, 1996);  
ID (Nimmo, 1974; Schmid, 1982; Moulton & Stewart, 1996);  
IN (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MB (Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruiter, Boyle, & Zhou, 2013);  
MI (Leonard and Leonard, 1949; Ellis, 1962; Nimmo, 1974;  
Schmid, 1982; Moulton & Stewart, 1996; Houghton, Brandin, & Brakel, 2011;  
Wright, Pytel, & Houghton, 2013; Houghton, 2016);

- Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
Houghton, 2022;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MN (Etnier, 1965; Nimmo, 1974; Schmid, 1982;  
Moulton & Stewart, 1996; Monson, 1997;  
Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MT (Ross, 1944; Nimmo, 1974; Roemhild, 1982; Schmid, 1982;  
Moulton & Stewart, 1996);  
NY (Schmid, 1982; Moulton & Stewart, 1996; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
OK (Bowles & Mathis, 1992);  
ON (Walker, 1852; Nimmo, 1974; Schmid, 1982;  
Moulton & Stewart, 1996);  
WI (Ross, 1944; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Nimmo, 1974;  
Schmid, 1982; Hilsenhoff, 1995; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
WY (Ross, 1944; Nimmo, 1974; Hilsenhoff, 1975; Schmid, 1982;  
Ruiter & Lavigne, 1985; Moulton & Stewart, 1996).
- ? *Protoptila viridiventris* (Say, 1823), Phryganea, OH;  
[possibly a species of *Protoptila* (Hagen, 1861, possibly a senior  
synonym of *P maculata*); Ross, 1944 ("*Protoptila?*");  
Wiggins, 1954];  
OH (Say, 1823).

Goeridae (4 genera, 12 species) —Weighted-case Caddisflies

- Goera archaon* Ross, 1947, OR;  
maxillary palp, male & female genitalia (Denning, 1968);  
male genitalia (Wiggins, 1973);  
larva, case (Wiggins, 1977);  
CA (Denning, 1982; Resh & Mendez, 2022);  
OR (Ross, 1947; Denning, 1968; Anderson, 1976; Wiggins, 1977).
- Goera calcarata* Banks, 1899, NY;  
internal female genitalia (Unzicker, 1968);  
male genitalia, female genitalia (Morse, 1971);  
wings, head, male A6 sternite, male & female maxillary palps, male  
& female genitalia (Schmid, 1980; Schmid, 1983);  
eastern US to MN to TN to NS (Denning, 1982);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
AL (Harris, Lago, & O'Neil, 1984; Harris, 1987;  
Harris & Lago, 1990; Frazer, Harris, & Ward, 1991;  
Harris, O'Neil, & Lago, 1991);  
CT (Harris, O'Neil, & Lago, 1991; Nelson & Downs, 1995);  
DE (Lake, 1984);  
GA (Flint, 1960; Schmid, 1983);  
KY (Resh, 1975; Floyd & Schuster, 1990; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MA (Flint, 1960; Neves, 1979; Schmid, 1983; Whitmore 2008);  
ME (Blickle & Morse, 1966; Mingo & Gibbs, 1980; Bilger, 1986; Huryn & Harris, 2000);  
MN (Etnier, 1965, doubtful identification according to  
Houghton, Holzenthal, Monson, & MacLean, 2001;  
Harris, O'Neil, & Lago, 1991);  
NB (Schmid, 1983; Zhou et al., 2011);  
NC (Carpenter, 1933; Wray, 1950; Schmid, 1983; Armitage & Tennessen, 1984);

- Morse, Hamilton, & Hoffman, 1989; Floyd, Morse, & Harris, 1997;  
 DeWalt, Jacobus, & McCafferty, 2007;  
 Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);  
 NH (Morse & Blickle, 1953; Schmid, 1983);  
 NJ (Carpenter, 1933; Schmid, 1983; Zhou et al., 2011);  
 NS (Flint, 1960; Schmid, 1980);  
 NY (Banks, 1899; Betten, 1934; Schmid, 1983; Myers, Kondratieff, Mihuc, & Ruitter, 2011);  
 OH (Garono & MacLean, 1988; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 PA (Hyland, 1948; Swegman, Walker, & Sykora, 1981; Masteller & Flint, 1992;  
 Hoenig, Trevelline, Nuttle, & Porter, 2021);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979;  
 Williams & Williams, 1979; Schmid, 1980; Schmid, 1983);  
 SC (Schmid, 1983; Morse, Hamilton, & Hoffman, 1989;  
 Floyd, Morse, & Harris, 1997; Zhou et al., 2011);  
 TN (Edwards, 1966; Etnier & Schuster, 1979; Schmid, 1983;  
 Etnier, Baxter, Fraley, & Parker, 1998; Hamilton, Hamilton, & Lyle, 2002;  
 DeWalt & Heinold, 2005; Etnier, Bauer, & Zirkle, 2006;  
 DeWalt, Jacobus, & McCafferty, 2007; Zhou et al., 2011);  
 VA (Flint, 1960; Parker & Voshell, 1981; Flint, Hoffman, & Parker, 2008; Zhou et al., 2011);  
 VT (Wimmer, 1979);  
 WV (Hill & Tarter, 1978; Tarter, 1990; Tarter & Floyd, 2016).
- Goera fuscata* Banks, 1905, NC;  
 male maxillary palp, male & female genitalia (Schmid, 1983);  
 eastern US (Denning, 1982);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 GA (Schmid, 1983);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Flint, 1960; Neves, 1979; Schmid, 1983);  
 ME (Mingo & Gibbs, 1980; Bilger, 1986);  
 NB (Zhou et al., 2011);  
 NC (Banks, 1905; Ross, 1944; Schmid, 1983; Morse, Hamilton, & Hoffman, 1989;  
 Floyd, Morse, & Harris, 1997; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 NJ (Zhou et al., 2011);  
 NY (Flint, 1960; Schmid, 1983; Myers, Kondratieff, Mihuc, & Ruitter, 2011);  
 PA (Masteller & Flint, 1992);  
 QC (Roy & Harper, 1979; Schmid, 1983);  
 SC (Morse et al, 1979; Morse, Hamilton, & Hoffman, 1989;  
 Floyd & Morse, 1993; Floyd, Morse, & Harris, 1997);  
 TN (Flint, 1960; Etnier & Schuster, 1979; Schmid, 1983;  
 Etnier, Baxter, Fraley, & Parker, 1998; Zhou et al., 2011);  
 VA (Flint, 1960; Parker & Voshell, 1981; Schmid, 1983; Flint, Hoffman, & Parker, 2008;  
 Zhou et al., 2011);  
 VT (Wimmer, 1979).
- Goera stylata* Ross, 1938, MI;  
 female genitalia (Wiggins, 1973);  
 male maxillary palp, male & female genitalia (Schmid, 1983);  
 male genitalia (Houghton, 2012);  
 eastern US to MI and ON (Denning, 1982);  
 AL (Harris, O'Neil, & Lago, 1991);  
 CT (Nelson & Downs, 1995);  
 IN (Waltz & McCafferty, 1983;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Etnier & Schuster, 1979; Floyd, Moulton, Schuster, Parker, & Robinson, 2012);

- Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Flint, 1960; Neves, 1979; Schmid, 1983);  
 MI (Ross, 1938; Leonard & Leonard, 1949; Ellis, 1962; Schmid, 1983;  
 Yanoviak & McCafferty, 1996; Houghton, Brandin, & Brakel, 2011; Houghton, 2015;  
 Houghton, 2016;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
 Houghton & Lardner, 2020; Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Morse & Blickle, 1953; Schmid, 1983);  
 NY (Flint, 1960; Schmid, 1983);  
 OH (McElravy, Arsuffi, & Foote, 1977; Huryn & Foote, 1983; Schmid, 1983;  
 Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Sprules, 1947; Schmid, 1980; Schmid, 1983;  
 Singh, Smith, & Harrison, 1984a);  
 PA (Masteller & Flint, 1980; Swegman, Walker, & Sykora, 1981;  
 Schmid, 1983; Masteller & Flint, 1992);  
 TN (Schmid, 1983; Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Flint, 1960; Parker & Voshell, 1981; Schmid, 1983; Flint, Hoffman, & Parker, 2008);  
 WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hilsenhoff, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Griffith & Perry, 1992; Tarter & Floyd, 2016).
- Goera townesi* Morse, 1971, SC;  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris, 1987; Harris & Lago, 1990;  
 Harris, O'Neil, & Lago, 1991; Hicks & Haynes, 2000a);  
 GA (Morse, 1971; Denning, 1982);  
 NC (Harris, O'Neil, & Lago, 1991; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 SC (Morse, 1971).
- Goera tungusensis* Martynov, 1909, Russia (Siberia);  
*Goera radissonica* Harper & Méthot, 1975, QC (Wiggins & Parker, 1997);  
 male genitalia (Schmid, 1983);  
 AK (Webb, Cole, & Simmons, 2022);  
 QC (Harper & Méthot, 1975; Roy & Harper, 1979; Schmid, 1980;  
 Schmid, 1983; Harper, 1989);  
 YT (Wiggins & Parker, 1997).
- Goeracea genota* (Ross, 1941), Goerita, OR;  
 male & female genitalia (Denning, 1968);  
 internal female genitalia (Unzicker, 1968);  
 larva, pupa, case, male & female genitalia (Wiggins, 1973);  
 larva, adult head (Wiggins, 1976);  
 photos of larvae and cases (Anderson, 1976);  
 larva, case (Wiggins, 1977);  
 male palps, wings, male & female genitalia (Schmid, 1980);  
 wing scales (Denning, 1982);  
 wings, palps, male & female genitalia (Schmid, 1983);  
 BC (Denning, 1968; Denning, 1982; Wiggins, 1973; Schmid, 1980;  
 Schmid, 1983; Williams & Williams, 1987; Williams, 1991);  
 ID (Smith, 1965; Wiggins, 1973; Denning, 1982; Schmid, 1983);  
 MT (Newell, 1970; Newell & Potter, 1973; Denning, 1982;  
 Roemhild, 1982; Schmid, 1983);

- OR (Ross, 1941; Wiggins, 1973; Anderson, 1976; Wiggins, 1977; Denning, 1982; Anderson, Cooper, & Denning, 1982; Schmid, 1983);  
 WA (Smith, 1965; Wiggins, 1973; Denning, 1982; Schmid, 1983; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013).
- Goeracea oregona* Denning, 1968, OR;  
 male & female genitalia (Wiggins, 1973);  
 CA (Wiggins, 1973; Erman, 1989; Erman & Erman, 1990; Erman, 1998; Resh & Mendez, 2022);  
 OR (Denning, 1968; Wiggins, 1973; Anderson, 1976).
- Goerita betteni* Ross, 1962, WV;  
 larva, case, male head, male & female genitalia (Wiggins, 1973);  
 larva, case (Wiggins, 1977);  
 larva, male & female genitalia (Parker, 1999);  
 KY (Phillippi & Schuster, 1987; Parker, 1999; Zhou et al., 2011; Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Phillippi & Schuster, 1987; Parker, 1999; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 OH (Phillippi & Schuster, 1987, doubtful record according to Armitage et al., 2011; Bolton, Macy, DeWalt, & Jacobus, 2019; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 PA (Masteller & Flint, 1979 "probably", 1984; Phillippi & Schuster, 1987; Masteller & Flint, 1992; Parker, 1999);  
 TN (Edwards, 1966; Wiggins, 1973; Wiggins, 1977; Etnier & Schuster, 1979; Denning, 1982; Etnier, Baxter, Fraley, & Parker, 1998; Parker, 1999);  
 VA (Parker & Voshell, 1981; Flint, Hoffman, & Parker, 2008);  
 WV (Ross, 1962; Wiggins, 1973; Denning, 1982; Tarter & Hill, 1980; Tarter, 1990; Parker, 1999; Tarter & Floyd, 2016).
- Goerita flinti* Parker, 1999, NC;  
 larva, male & female genitalia (Parker, 1999);  
 NC (Parker, 1999; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 TN (Parker, 1999).
- Goerita semata* Ross, 1938, NC;  
 larva, female genitalia (Wiggins, 1973);  
 larva, male & female genitalia (Parker, 1999);  
 mountains of southeastern United States (Wiggins, 1973);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 southeastern US (Denning, 1982);  
 MT (Zhou et al., 2011 [record suspect, according to Jason Robinson]);  
 NC (Ross, 1938; Wray, 1950; Wiggins, 1973; Huryn & Wallace, 1987; Huryn & Wallace, 1988; Parker, 1999; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);  
 TN (Flint, 1960; Edwards, 1966; Wiggins, 1973; Etnier & Schuster, 1979; Etnier, Baxter, Fraley, & Parker, 1998; Parker, 1999);  
 VA (Parker & Voshell, 1981; Flint, Hoffman, & Parker, 2008).
- Lepania cascada* Ross, 1941, OR;  
 male and female genitalia (Schmid, 1968);  
 larva, pupa, case, male head, pronotum, mesonotum, male & female genitalia (Wiggins, 1973);  
 larva, adult head (Wiggins, 1976);

larva, case (Wiggins, 1977);  
OR (Ross, 1941; Schmid, 1955; Schmid, 1968; Wiggins, 1973;  
Wiggins, 1977; Anderson, 1976);  
WA (Wiggins, 1973; Anderson, 1976; Wiggins, 1977;  
Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005).

Helicopsychidae (1 genus, 7 species) —Snail-case Caddisflies

*Helicopsyche borealis* (Hagen, 1861), Notidobia, WA;  
*Helicopsyche annulicornis* Banks, 1904, MD (Ross, 1944);  
*Valvata arenifera* Lea, 1834 [of Mollusca], TN (possible synonym, Johanson, 2002);  
*Helicopsyche californica* Banks, 1899, CA (Ross, 1944);  
*Helicopsyche glabra* Hagen, 1864, North America (Ross, 1944);  
*Paludina lustrica* Say, 1821 [of Mollusca], NY (Johanson, 1995; Johanson, 1998; Opinion 1108,  
Bull Zool Nomencl 35(2): 94-96),  
internal female genitalia (Unzicker, 1968);  
photos of larvae in cases (Anderson, 1976);  
larva, case (Wiggins, 1977);  
head, male & female maxillary palps, wings, male & female  
genitalia (Schmid, 1980; Schmid, 1983);  
mesonotum, hindwing, male & female genitalia  
(Marshall & Larson, 1982);  
case (Vaughn, 1985);  
adult habitus, body, wings, legs, sternal process, & male genitalia (Johanson, 2002);  
head, male genitalia (Houghton, 2012);  
Mexico to NS & AB to 55° latitude in SK & QC (Schmid, 1983);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
AB (Schmid, 1980; Schmid, 1983; Richardson & Clifford, 1986;  
Moulton & Stewart, 1996);  
AL (Harris, Lago, & O'Neil, 1984; Harris, 1987;  
Harris & Lago, 1990; Harris, O'Neil, & Lago, 1991;  
Moulton & Stewart, 1996; Hicks & Haynes, 2000a);  
AR (Ross, 1941; Unzicker, Aggus, & Warren, 1970; Bowles & Mathis, 1989;  
Moulton & Stewart, 1996; Johanson, 2002; Bowles, 2020;  
Bowles, Cheri, Usrey, & Williams, 2020);  
AZ (Moulton, Stewart, & Young, 1994; Moulton & Stewart, 1996; Ruiter, 1996; Houghton, 2001;  
Johanson, 2002; Blinn & Ruiter, 2006; Blinn & Ruiter, 2009a; Blinn & Ruiter, 2009b;  
Zhou et al., 2011; Blinn, Ruiter, & Haden, 2012);  
CA (Ross, 1944; Lamberti & Resh, 1983; Resh, Lamberti, & Wood, 1984;  
McElravy & Resh, 1987; Lamberti, Feminella, & Resh, 1987; Jackson & Resh, 1989;  
Feminella & Resh, 1990; Feminella & Resh, 1991; Jackson & Resh, 1992;  
Moulton & Stewart, 1996; Johanson, 2002; Givens, 2014; Resh & Mendez, 2022);  
CO (Dodds and Hisaw, 1925; Mecom, 1970; Herrmann, Ruiter, & Unzicker, 1986; Ward, 1986;  
Moulton & Stewart, 1996; Ruse & Herrmann, 2000;  
Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
CT (Britton, 1920; Bilger, 1986; Nelson & Downs, 1995;  
Moulton & Stewart, 1996; Johanson, 2002);  
DE (Lake, 1984; Moulton & Stewart, 1996);  
FL (Ross, 1944; Gordon, 1984; Pescador, Rasmussen, & Harris, 1995, 2004;  
Moulton & Stewart, 1996; Johanson, 2002; Zhou et al., 2011;  
Denson, Rasmussen, & Harris, 2016);  
GA (Ross, 1944; Moulton & Stewart, 1996; Zhou et al., 2011);  
IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
ID (Newell & Minshall, 1977; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
IL (Betten, 1934; Moulton & Stewart, 1996; Johanson, 2002;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);



IN (Ross, 1944; Waltz & McCafferty, 1983;  
Moulton & Stewart, 1996; Johanson, 2002; Simon, Morris, Robb, & McCoy, 2015;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

KS (Hamilton & Schuster, 1979; Hamilton, Schuster, & DuBois, 1983; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

KY (Betten 1934; Resh, 1975; Phillippi & Schuster, 1987;  
Floyd & Schuster, 1990; Moulton & Stewart, 1996; Johanson, 2002; Zhou et al., 2011;  
Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MA (Hagen, 1864; Hagen, 1865, Packard, 1876; Neves, 1979;  
Bilger, 1986; Moulton & Stewart, 1996; Johanson, 2002);

MB (Neave, 1934; Flannagan, 1978; Flannagan & Flannagan, 1982;  
Moulton & Stewart, 1996; Johanson, 2002; Zhou et al., 2011);

MD (Banks, 1904; Moulton & Stewart, 1996; Flint, 2008; Johanson, 2002);

ME (Mighels, 1843; Johnson, 1927; Blicke & Morse, 1966;  
Mingo & Gibbs, 1979; Mingo & Gibbs, 1980; Bilger, 1986;  
Moulton & Stewart, 1996; Huryn & Harris, 2000);

MI (Ross, 1944; Ellis, 1962; Petersen & Cummins, 1974;  
Davis, Hudson, & Armitage, 1991; Moulton & Stewart, 1996;  
Yanoviak & McCafferty, 1996; Johanson, 2002;  
Houghton, Brandin, & Brakel, 2011; Wright, Pytel, & Houghton, 2013;  
DeWalt & South, 2015; Houghton, 2015; Houghton, 2016;  
Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
Houghton & Lardner, 2020; Houghton, 2022;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MN (Elkins, 1936; Ross, 1944; Etnier, 1965;  
Lager, Johnson, Williams, & McCullough, 1979; MacLean, 1995;  
Moulton & Stewart, 1996; Ruiter, 1996; Monson, 1997;  
Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2004a;  
Houghton & Holzenthal, 2010; Zhou et al., 2011; Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MO (Ross, 1944; Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007;  
Bowles, 2020;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MS (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996);

MT (Ross, 1944; Newell, 1970; Newell & Potter, 1973; Roemhild, 1982;  
Moulton & Stewart, 1996; Johanson, 2002; Stagliano, 2020);

NB (Ross, 1944; Moulton & Stewart, 1996; Zhou et al., 2011);

NC (Penrose, Lenat & Eagleson, 1982; Lenat & Penrose, 1987; Moulton & Stewart, 1996;  
DeWalt, Jacobus, & McCafferty, 2007;  
Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);

ND (Harris, Lago, & Carlson, 1980; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

NF (Marshall & Larson, 1982; Moulton & Stewart, 1996);

NH (Ross, 1944; Moulton & Stewart, 1996);

NJ (Smith, 1900; Smith, 1910; Moulton & Stewart, 1996; Johanson, 2002);

NM (Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
Ruiter, 1996; Johanson, 2002; Vieira, Kondratieff, Ruiter, & Durfee, 2009);

NS (Ross, 1944; Schmid, 1980; Schmid, 1983; Moulton & Stewart, 1996; Zhou et al., 2011);

NT (Schmid, 1980; Moulton & Stewart, 1996;  
Moulton & Stewart, 1996);

NV (Ruiter, Baumann, & Flint, 2014);

NY (Say, 1821, Lewis, 1856, Hagen, 1865, Lloyd, 1921; Bilger, 1986; Johanson, 2002;  
Zhou et al., 2011; Myers, Kondratieff, Mihuc, & Ruiter, 2011; Tozer, 2018);

OH (Wheatley, 1845, Hagen, 1865, Marshall, 1939; Wiggins, 1977; Petersen & Foote, 1980);

- Huryñ & Foote, 1983; Garono & MacLean, 1988; Moulton & Stewart, 1996; Johanson, 2002; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- OK (Ross, 1944; Vaughn, 1985; Vaughn, 1986; Vaughn, 1987; Bowles & Mathis, 1992; Moulton & Stewart, 1996; Johanson, 2002; Zuellig, Kondratieff, Schmidt, Durfee, Ruitter, & Prather, 2006);
- ON (Rawson, 1928; Williams, Read, & Moore, 1983; Williams, Tavares, & Bryant, 1987; Harper, 1989; Moulton & Stewart, 1996; Johanson, 2002; Zhou et al., 2011);
- OR (Ross, 1944; Anderson, 1976; Anderson & Anderson, 1995; Moulton & Stewart, 1996; Zhou et al., 2011);
- PA (Ross, 1944; Swegman, Walker, & Sykora, 1981; Masteller & Flint, 1992; Moulton & Stewart, 1996);
- QC (Nimmo, 1966; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1975; Roy & Harper, 1979; Schmid, 1983; Harper, 1989; Moulton & Stewart, 1996; Johanson, 2002);
- SC (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Zhou et al., 2011);
- SD (Ross, 1944; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- SK (Milne, 1943; Wiggins, 1977; Schmid, 1983; Moulton & Stewart, 1996; Zhou et al., 2011);
- TN (Elkins, 1936; Edwards, 1966; Etnier & Schuster, 1979; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005; DeWalt, Jacobus, & McCafferty, 2007; Zhou et al., 2011);
- TX (Ross, 1944; Edwards, 1973; Moulton & Stewart, 1996; Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997; Johanson, 2002; Bowles, Tiemann, & Easley, 2007);
- UT (Baumann & Unzicker, 1981; Moulton & Stewart, 1996; Johanson, 2002);
- VA (Banks, 1904; Parker & Voshell, 1981; Moulton & Stewart, 1996; Johanson, 2002; Flint, Hoffman, & Parker, 2008; Zhou et al., 2011; Flint, 2011);
- VT (Jay, 1852; Wimmer, 1979; Bilger, 1986);
- WA (Hagen, 1861; Moulton & Stewart, 1996; Johanson, 2002);
- WI (Lapham, 1852; Vorhies, 1909; Hilsenhoff et al, 1972; Hilsenhoff, 1975; Shapas & Hilsenhoff, 1976; Steven & Hilsenhoff, 1984; Narf, 1985; Lillie & Hilsenhoff, 1992; Hilsenhoff, 1995; Moulton & Stewart, 1996; Johanson, 2002; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- WV (Ross, 1944; Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016);
- WY (Ross, 1944; Ruitter & Lavigne, 1985; Moulton & Stewart, 1996; Johanson, 2002);
- Guatemala, Costa Rica, Panama (Bueno-Soria & Flint, 1978);
- Mexico (Hagen, 1864; Ross, 1951; Bueno-Soria & Flint, 1978; Schmid, 1980; Schmid, 1983; Moulton & Stewart, 1996).
- Helicopsyche limnella* Ross, 1938, AR;  
right wings, VIth sternal process, male genitalia (Johanson, 2002);  
AR (Ross, 1938; Unzicker, Aggus, & Warren, 1970; Wiggins, 1977; Bowles & Allen, 1992; Johanson, 2002);
- MO (Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- OK (Ross, 1944; Wiggins, 1977; Bowles & Mathis, 1992; Johanson, 2002;  
Zuellig, Kondratieff, Schmidt, Durfee, Ruitter, & Prather, 2006).
- Helicopsyche mexicana* Banks, 1901, Mexico;  
*Helicopsyche arizonensis* Banks, 1907, AZ (Ross, 1944);  
male genitalia (Denning, 1964);  
male & female genitalia (Denning, 1979);  
right wings, VIth sternal process, male genitalia (Johanson, 2002);  
AZ (Banks, 1907; Ross, 1944; Wiggins, 1977; Jackson, 1988);

- Moulton, Stewart, & Young, 1994; Ruiter, 1996;  
Houghton, 2001; Johanson, 2002; Blinn & Ruiter, 2006; Blinn & Ruiter, 2009a;  
Blinn & Ruiter, 2009b);  
CA (Denning & Blickle, 1979; Resh & Mendez, 2022);  
NM (Johanson, 2002);  
TX (Ross, 1944; Edwards, 1973; Wiggins, 1977;  
Meyerhoff & Lind, 1987; Moulton & Stewart, 1997);  
UT (Denning & Blickle, 1979; Baumann & Unzicker, 1981);  
Mexico (Banks, 1901).
- Helicopsyche paralimnella* Hamilton, 1989, SC [in the work of  
Morse, Hamilton, & Hoffman, 1989];  
Larva, larval case & pupa (Floyd, 1995);  
right wings, Vth sterna process, male genitalia (Johanson, 2002);  
NC (Floyd, 1995; Morse et al, 1997; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
SC (Morse, Hamilton & Hoffman, 1989; Floyd & Morse, 1993;  
Floyd, Morse, & Harris, 1997; Morse et al, 1997; Johanson, 2002).
- Helicopsyche pietia* Denning, 1964, Mexico;  
right wings, Vth sternal process, male genitalia (Johanson, 2002);  
AZ (Johanson, 2002).
- Helicopsyche piroa* Ross, 1944, TX;  
right wings, Vth sternal process, male genitalia (Johanson, 2002);  
AR (Moulton & Stewart, 1996; Johanson, 2002);  
KS (Hamilton & Schuster, 1979; Hamilton, Schuster, & DuBois, 1983;  
Hamilton & Holzenthal, 1984; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
LA (Hamilton & Holzenthal, 1984; Moulton & Stewart, 1996);  
OK (Bowles & Mathis, 1992; Moulton & Stewart, 1996;  
Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006; Johanson, 2002);  
TX (Ross, 1944; Edwards & Arnold, 1961; Edwards, 1973; Wiggins, 1977;  
Hamilton & Holzenthal, 1984; Moulton & Stewart, 1996; Moulton & Stewart, 1997;  
Johanson, 2002; Diaz & Alexander, 2012);  
Mexico (Ross, 1944; Hamilton & Holzenthal, 1984;  
Moulton & Stewart, 1996; Bowles, Tiemann, & Easley, 2007).
- Helicopsyche sinuata* Denning & Blickle, 1979, CA;  
right wings & male genitalia (Johanson, 2002);  
CA (Denning & Blickle, 1979; Johanson, 2002; Resh & Mendez, 2022).
- Hydrobiosidae (1 genus, 3 species) —Hydrobiosid Caddisflies
- Atopsyche erigia* Ross, 1947, Mexico;  
male genitalia (Ross & King, 1952);  
larva (Edwards & Arnold, 1961);  
TX (Edwards & Arnold, 1961; Edwards, 1973; Bueno-Soria & Flint, 1978; Schmid, 1990;  
Moulton & Stewart, 1997; Bowles, Tiemann & Easley, 2007; Diaz & Alexander, 2012);  
Guatemala, Nicaragua, Costa Rica, Panamá  
(Bueno-Soria & Flint, 1978; Schmid, 1990);  
Mexico (Ross, 1947; Ross & King, 1952; Schmid, 1990;  
Razo-González, Novelo-Gutiérrez, Castaño-Meneses, & Márquez, 2021).
- Atopsyche sperryi* Denning, 1949, AZ;  
male genitalia (Ross & King, 1952);  
female genitalia (Ruiter & Blinn, 2009);  
AZ (Denning, 1949; Ross & King, 1952; Schmid, 1990; Moulton, Stewart, & Young, 1994;  
Ruiter, 1996; Houghton, 2001; Blinn & Ruiter, 2006; Blinn & Ruiter, 2009a;  
Blinn & Ruiter, 2009b; Blinn, Ruiter, & Haden, 2012);  
NM (Waltz & McCafferty, 1983);  
Mexico (Flint, 1967; Schmid, 1990);

Razo–González, Novelo-Gutiérrez, Castaño-Meneses, & Márquez, 2021).  
Atopsyche tripunctata Banks, 1905, AZ;  
male genitalia (Ross & King, 1952);  
female genitalia (Ruiter & Blinn, 2009);  
AZ (Banks, 1905; Ross, 1944; Ross & King, 1952; Schmid, 1990;  
Ruiter, 1996; Blinn & Ruiter, 2006; Blinn & Ruiter, 2009a; Blinn & Ruiter, 2009b);  
Mexico (Flint, 1967; Schmid, 1990;  
Razo–González, Novelo-Gutiérrez, Castaño-Meneses, & Márquez, 2021).

Hydropsychidae (11 genera, 159 species) —Net-spinning Caddisflies

Arctopsyche californica Ling, 1938, CA;  
Parapsyche divergens Banks, 1943, CA (Denning, 1950);  
male genitalia (Schmid, 1968);  
larval head, gills, pupa, case, male & female genitalia (Givens & Smith, 1980);  
CA (Ling, 1938; Banks, 1943; Schmid, 1968; Givens & Smith, 1980; Cushman, 2014;  
Givens, 2014; Resh & Mendez, 2022).  
Arctopsyche grandis (Banks, 1900), Hydropsyche, CO;  
Arctopsyche inermis Banks, 1943, CO (Smith, 1968);  
[distinct species according to Givens & Ruiter, 2015];  
Arctopsyche phryganoides Banks, 1918, AB (Milne, 1936);  
larva (Smith, 1968; Givens, 1976; Wiggins, 1977);  
male genitalia (Schmid, 1968);  
internal female genitalia (Unzicker, 1968);  
photo of larva (Anderson, 1976);  
female (Givens, 1976);  
larval gills, pupa, case, male & female genitalia (Givens & Smith, 1980);  
photo of larval head and pronotum (Hauer & Stanford, 1981);  
male & female genitalia (Nimmo, 1987; Givens & Ruiter, 2015);  
West Nearctic (Schmid, 1968);  
AB (Banks, 1918; Milne & Milne, 1938; Smith, 1968;  
Givens & Smith, 1980; Nimmo, 1987; Cushman, 2014);  
BC (Milne & Milne, 1938; Ross & Spencer, 1952; Smith, 1968;  
Nimmo & Scudder, 1978; Givens & Smith, 1980; Nimmo, 1987; Cushman, 2014);  
CA (Milne & Milne, 1938; Denning, 1950; Smith, 1968;  
Givens & Smith, 1980; Leland, Fend, Carter, & Mahood, 1986; Nimmo, 1987;  
Erman, 1989; Cushman, 2014; Givens & Ruiter, 2015; Resh & Mendez, 2022);  
CO (Banks, 1900; Banks, 1943; Smith, 1968; Mecom, 1972; Wallace, 1975;  
Givens & Smith, 1980; Canton & Ward, 1981; Stanford & Ward, 1981;  
Herrmann, Ruiter, & Unzicker, 1986;  
Ward, 1986; Ward, 1987; Nimmo, 1987; DeWalt, Stewart, Moulton, & Kennedy, 1994;  
Ruiter, 1996; Ruse & Herrmann, 2000; Zuellig, Kondratieff, Ruiter, & Thorp, 2006;  
Zuellig, Heinold, Kondratieff, & Ruiter, 2012; Cushman, 2014; Givens & Ruiter, 2015);  
ID (Milne & Milne, 1938; Smith, 1968; Newell & Minshall, 1977;  
Givens & Smith, 1980; Cuffney & Minshall, 1981; Nimmo, 1987; Cushman, 2014);  
MT (Denning, 1943; Denning, 1950; Smith, 1968; Newell, 1970;  
Newell & Potter, 1973; Givens & Smith, 1980; Hauer & Stanford, 1981; Roemhild, 1982;  
Nimmo, 1987; Stanford, Hauer, and Ward, 1988; De Jong, 2002; Cushman, 2014;  
Givens & Ruiter, 2015; Stagliano, 2020);  
NM (Milne & Milne, 1938; Smith, 1968; Molles, 1982; Nimmo, 1987; De Jong, 2002;  
Vieira, Kondratieff, Ruiter, & Durfee, 2009; Cushman, 2014);  
NT (Nimmo, 1986; Nimmo, 1987; Cushman, 2014);  
NV (Nimmo, 1987; Ruiter, Baumann, & Flint, 2014; Cushman, 2014);  
OR (Milne & Milne, 1938; Denning, 1950; Anderson, 1967;  
Anderson, 1976; Smith, 1968; Givens & Smith, 1980;  
Anderson, Cooper, & Denning, 1982);

- Anderson, Wisseman, & Courtney, 1984; Nimmo, 1987; Cushman, 2014;  
Givens & Ruiter, 2015);
- QC (Milne & Milne, 1938; Schmid, 1968; Roy & Harper, 1979;  
Nimmo, 1987; Cushman, 2014);
- UT (Milne & Milne, 1938; Denning, 1950; Smith, 1968;  
Givens & Smith, 1980; Baumann & Unzicker, 1981;  
Nimmo, 1987; Cushman, 2014; Givens & Ruiter, 2015);
- WA (Ross, 1941; Smith, 1968; Givens & Smith, 1980; Smith, 1981;  
Nimmo, 1987; Anderson & Wisseman, 1987;  
Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013; Cushman, 2014;  
Givens & Ruiter, 2015);
- WY (Vincent, 1967; Smith, 1968; Givens, 1976; Wiggins, 1977;  
Swegman & Ferrington, 1980; Givens & Smith, 1980;  
Ruiter & Lavigne, 1985; Ruiter, 1996; Nimmo, 1987; Cushman, 2014;  
Givens & Ruiter, 2015);
- YT (Nimmo & Wickstrom, 1984; Nimmo, 1987; Wiggins & Parker, 1997; Cushman, 2014).
- Arctopsyche inermis* Banks, 1943, CO;  
male genitalia (Schmid, 1968);  
male & female genitalia (Givens & Ruiter, 2015);  
CA (Givens & Ruiter, 2015; Resh & Mendez, 2022);  
CO (Givens & Ruiter, 2015);  
ID (Givens & Ruiter, 2015);  
MT (Givens & Ruiter, 2015);  
OR (Givens & Ruiter, 2015);  
UT (Givens & Ruiter, 2015);  
WA (Givens & Ruiter, 2015);  
WY (Givens & Ruiter, 2015).
- Arctopsyche irrorata* Banks, 1905, NC;  
larva (Flint, 1961);  
net (Wallace & Malas, 1976);  
photo of net (Wallace, Webster, & Woodall, 1977);  
wings, male & female genitalia (Nimmo, 1987);  
larval mandibles, 1st and 5th instar foreleg, retreat, net, photos  
of retreat, net (Wallace (1975);  
eastern N Amer (Ross, 1944);  
East Nearctic (Schmid, 1968);  
GA/NC (Wallace, Webster, & Woodall, 1977; Cushman, 2014);  
GA/NC/SC (Gordon & Wallace, 1975);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
GA (Wallace, 1975; Benke & Wallace, 1980);  
NC (Banks, 1905Wallace, 1975; Penrose, Lenat, & Eagleson, 1982;  
Armitage & Tennessen, 1984; Nimmo, 1987; Morse, Hamilton, & Hoffman, 1989;  
DeWalt, Jacobus, & McCafferty, 2007;  
Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011;  
Cushman, 2014);  
SC (Flint, 1961; Nimmo, 1987; Morse, Hamilton & Hoffman, 1989;  
Floyd, Morse, & Harris, 1997; Cushman, 2014);  
TN (Etnier & Schuster, 1979; Nimmo, 1987; Etnier, Baxter, Fraley, & Parker, 1998;  
DeWalt & Heinold, 2005; Zhou et al., 2011; Cushman, 2014);  
VA (Flint, Hoffman, & Parker, 2004; Cushman, 2014  
WV (Tarter & Floyd, 2016).
- Arctopsyche ladogensis* (Kolenati, 1859), *Aphelocheira*, USSR;  
*Arctopsyche ramosa* MacLachlan, 1878 (Milne, 1936);  
larva (Flint, 1961; Lepneva, 1964/70);  
male & female genitalia (Schmid, 1968);

larval gills, male antenna, female midleg, male & female wings,  
 male & female genitalia (Schmid, 1980);  
 maxillary palp, male genitalia (Marshall & Larson, 1982);  
 male & female midtibiae & tarsi (Deutsch, 1985);  
 male & female genitalia (Nimmo, 1987);  
 photos of larva, head & pronotum (Ruiter, Boyle, & Zhou, 2013);  
 circumboreal south to central Sweden and to NH (Schmid, 1968);  
 Hudson Bay (McLachlan, 1878);  
 AB (Nimmo, 1987; Cushman, 2014);  
 AK (Nimmo, 1987; Cushman, 2014);  
 MB (Milne & Milne, 1938; Wiggins, 1961;  
 Flannagan & Flannagan, 1982; Nimmo, 1987;  
 Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruiter, Boyle, & Zhou, 2013;  
 Cushman, 2014);  
 ME (Bilger, 1986; Nimmo, 1987; Cushman, 2014);  
 MI (Leonard and Leonard, 1949; Schmude & Hilsenhoff, 1986; Nimmo, 1987;  
 Yanoviak & McCafferty, 1996; Cushman, 2014;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2020; Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Wiggins, 1961; Marshall & Larson, 1982; Nimmo, 1987; Cushman, 2014);  
 NH (Milne & Milne, 1938; Wiggins, 1961; Schmid, 1968;  
 Nimmo, 1987; Cushman, 2014);  
 NS (Nimmo, 1987; Cushman, 2014);  
 NT (McLachlan, 1878; Wiggins, 1961; Nimmo, 1986; Nimmo, 1987; Cushman, 2014;  
 Cordero, Sánchez-Ramírez, & Currie, 2017);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011; Cushman, 2014);  
 QC (Williams & Williams, 1979; Roy & Harper, 1979; Nimmo, 1987;  
 Harper, 1989; Cushman, 2014);  
 SK (Nimmo, 1987; Cushman, 2014);  
 ? UT (Fischer, 1963; Baumann & Unzicker, 1981; Cushman, 2014;  
 UT records based on error by Fischer, 1963, according to Givens & Ruiter, 2015);  
 VT (Wimmer, 1979; Cushman, 2014);  
 YT (Nimmo & Wickstrom, 1984; Bilger, 1986;  
 Wiggins & Parker, 1997; Cushman, 2014);  
 USSR (Kolenati, 1859);  
 Siberia, northern Europe, Mongolia (Lepneva, 1964/70);  
 Scandinavia, northern USSR (Wiggins, 1961).

*Cheumatopsyche analis* (Banks, 1903), *Hydropsyche*, NJ;  
*Cheumatopsyche pettiti* Banks, 1908 (Ross, 1944;  
 Hoffman & Parker, 1997);  
 nomen dubium (Gordon, 1974);  
 male & female genitalia (Ross, 1944);  
 larval frons (Miller, 1965, not reliable, Flint, pers comm);  
 male & female genitalia (Gordon, 1974);  
 larva (Wiggins, 1977);  
 wings, male & female genitalia (Nimmo, 1987);  
 male genitalia (Houghton, 2012);  
 GA/NC/SC (Gordon & Wallace, 1975);  
 GA/SC (Wallace, 1975; Hudson & Nichols, 1986);  
 NC/SC (Unzicker, Resh, & Unzicker, 1982);  
 OK/TX (Resh, White, & White, 1978);  
 transcontinental (Hamilton & Schuster, 1979);  
 AB (Nimmo, 1987; Moulton & Stewart, 1996);

AL (Harris et al, 1983; Harris, Lago, & O'Neil, 1984; Harris, 1987; Lago & Harris, 1987; Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Hicks & Haynes, 2000a; Hicks & Haynes, 2000b; Harris & O'Neil, 2015; Denson, Rasmussen, & Harris, 2016);

AR (Unzicker, Aggus, & Warren, 1970; Gordon, 1974; Nimmo, 1987; Bowles & Mathis, 1989; Moulton & Stewart, 1996; Bowles, 2020; Bowles, Cheri, Usrey, & Williams, 2020);

BC (Ross & Spencer, 1952; Nimmo, 1987; Nimmo & Scudder, 1978; Nimmo & Scudder, 1983; Moulton & Stewart, 1996);

CO (Gordon, 1974; Herrmann, Ruiter, & Unzicker, 1986; Ward, 1986; Nimmo, 1987; Moulton & Stewart, 1996; Ruse & Herrmann, 2000; Zuellig, Heinold, Kondratieff, & Ruiter, 2012);

CT (Britton, 1920; Miller, 1965, not reliable, Flint, pers comm; Gordon, 1974; Nelson, 1987; Nelson & Downs, 1995; Moulton & Stewart, 1996);

DE (Denning, 1943; Gordon, 1974; Lake, 1984; Nimmo, 1987; Moulton & Stewart, 1996);

FL (Gordon, 1974; Harris, Lago, & Scheiring, 1982; Nimmo, 1987; Pescador, Rasmussen, & Harris, 1995, 2004; Moulton & Stewart, 1996; Rasmussen, 2004; Zhou et al., 2011; Denson, Rasmussen, & Harris, 2016);

GA (Gordon, 1974; Nimmo, 1987; Frazer, Harris, & Ward, 1991; Moulton & Stewart, 1996);

HI (Denning & Beardsley, 1967; Joyce, 1970; Denning & Blickle, 1971; Shiroma, 1972; Kawamura, 1974; Moulton & Stewart, 1996; Flint, Englund, and Kumashiro, 2003; Evenhuis, Arakaki, & Imada, 2020);

IA (Blinn, Ruiter, & Flint, 2009; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

ID (Gordon, 1974; Newell & Minshall, 1977; Nimmo, 1987; Moulton & Stewart, 1996);

IL (Harris, 1971; Gordon, 1974; Nimmo, 1987; Moulton & Stewart, 1996; Zhou et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

IN (Gordon, 1974; Resh, 1978; Resh, 1979; Waltz & McCafferty, 1983; Nimmo, 1987; Moulton & Stewart, 1996; DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

KS (Hamilton & Schuster, 1979; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

KY (Resh, 1975; Haag, Resh, & Neff, 1984; Nimmo, 1987; Floyd & Schuster, 1990; Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006; Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

LA (Lago, Holzenthal, & Harris, 1982; Moulton & Stewart, 1996);

MA (Miller, 1965, not reliable, Flint, pers comm; Gordon, 1974; Neves, 1979; Nimmo, 1987; Moulton & Stewart, 1996);

MB (Lehmkuhl & Kerst, 1979; Flannagan & Lawler, 1972; Flannagan & Flannagan, 1982; Nimmo, 1987; Moulton & Stewart, 1996; Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010);

MD (Gordon, 1974; Moulton & Stewart, 1996);

ME (Miller, 1965, not reliable, Flint, pers comm; Blickle & Morse, 1966; Nimmo, 1987; Moulton & Stewart, 1996; Huryn & Harris, 2000);

MI (Banks, 1908; Gordon, 1974; Nimmo, 1987; Moulton & Stewart, 1996; Ruiter, 2010; Houghton, Brandin, & Brakel, 2011; Houghton, 2016; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018; Houghton, 2022; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MN (Denning, 1943; Etnier, 1965; Gordon, 1974; Mackay, 1986;

Waters, 1987; Nimmo, 1987; MacLean, 1995; Moulton & Stewart, 1996;  
 Monson, 1997; Harris, Kondratieff, & Boyle, 2000;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton & Holzenthal, 2010;  
 Zhou et al., 2011; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Gordon, 1974; Nimmo, 1987; Mathis & Bowles, 1992; Moulton & Stewart, 1996;  
 Ferro & Sites, 2007; Bowles, 2020;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Lago, Holzenthal, & Harris, 1982; Moulton & Stewart, 1996);  
 MT (Newell, 1970; Newell & Potter, 1973; Roemhild, 1982;  
 Nimmo, 1987; Moulton & Stewart, 1996);  
 NB (Ruiter, 2000);  
 NC (Gordon, 1974; Nimmo, 1987; Morse, Hamilton, & Hoffman, 1989;  
 Moulton & Stewart, 1996; Floyd, Morse, & Harris, 1997;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 ND (Denning, 1943; Harris, Lago, & Carlson, 1980; Nimmo, 1987;  
 Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NE (Harris, Kondratieff, & Boyle, 2000; Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Marshall & Larson, 1982; Nimmo, 1987;  
 Moulton & Stewart, 1996);  
 NH (Miller, 1965, not reliable, Flint, pers comm; Nimmo, 1987;  
 Moulton & Stewart, 1996);  
 NJ (Banks, 1903; Smith, 1910;  
 Miller, 1965, not reliable, Flint, pers comm;  
 Gordon, 1974; Nimmo, 1987; Moulton & Stewart, 1996; Zhou et al., 2011);  
 NS (Nimmo, 1987; Moulton & Stewart, 1996; Zhou et al., 2011);  
 NV (Ruiter, Baumann, & Flint, 2014);  
 NY (Banks, 1903; Miller, 1965, not reliable, Flint, pers comm;  
 Gordon, 1974; Nimmo, 1987; Moulton & Stewart, 1996;  
 Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Gordon, 1974; Masteller & Flint, 1979; Petersen & Foote, 1980; Huryn & Foote, 1983;  
 MacLean & MacLean, 1984; Usis & MacLean, 1986; Nimmo, 1987;  
 Garono & MacLean, 1988; Ingold, Weigt, & Guttman, 1988; Moulton & Stewart, 1996;  
 Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Gordon, 1974; Nimmo, 1987; Bowles & Mathis, 1992;  
 Moulton & Stewart, 1996;  
 Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006);  
 ON (Sprules, 1947; Nimmo, 1987; Harper, 1989; Moulton & Stewart, 1996; Zhou et al., 2011;  
 Armitage et al., 2011);  
 OR (Gordon, 1974; Anderson, 1976; Moulton & Stewart, 1996);  
 PA (Miller, 1965, not reliable, Flint, pers comm; Gordon, 1974;  
 Masteller & Flint, 1980; Masteller & Flint, 1984;  
 Swegman, Walker, & Sykora, 1981; Nimmo, 1987;  
 Masteller & Flint, 1992; Moulton & Stewart, 1996);  
 PE (Nimmo, 1987; Moulton & Stewart, 1996);  
 QC (Nimmo, 1966; Nimmo, 1987; Corbet, Schmid, & Augustin, 1966;  
 Roy & Harper, 1975; Roy & Harper, 1979; Harper, 1989;  
 Moulton & Stewart, 1996);  
 SC (Gordon, 1974; Morse, Chapin, Herlong, & Harvey, 1980;  
 Nimmo, 1987; Morse, Hamilton, & Hoffman, 1989;  
 Floyd & Morse, 1993; Moulton & Stewart, 1996;  
 Floyd, Morse, & Harris, 1997; Zhou et al., 2011);



- SD (Gordon, 1974; Nimmo, 1987; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- SK (Gordon, 1974; Nimmo, 1987; Moulton & Stewart, 1996);
- TN (Edwards, 1956; Edwards, 1966; Etnier & Schuster, 1979; Nimmo, 1987; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998; Etnier, Bauer, & Zirkle, 2006; DeWalt, Jacobus, & McCafferty, 2007);
- TX (Edwards & Arnold, 1961; Edwards, 1973; Gordon, 1974; Nimmo, 1987; Moulton & Stewart, 1996; Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997; Bowles, Tiemann, & Easley, 2007);
- UT (Knowlton and Harmston, 1939; Baumann & Unzicker, 1981; Nimmo, 1987; Moulton & Stewart, 1996);
- VA (Gordon, 1974; Parker & Voshell, 1981; Nimmo, 1987; Hoffman & Parker, 1997; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004; Flint, 2011);
- VT (Wimmer, 1979);
- WA (Ross, 1941; Gordon, 1974; Nimmo, 1987; Moulton & Stewart, 1996; Zack, Ruiter, Strenge, & Landolt, 2006; Blinn & Ruiter, 2013);
- WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Steven & Hilsenhoff, 1984; Nimmo, 1987; Hilsenhoff, 1995; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- WV (Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016);
- WY (Gordon, 1974; Ruiter & Lavigne, 1985; Nimmo, 1987; Moulton & Stewart, 1996; Zuellig, Pineda, & Kondratieff, 2002; Zhou et al., 2011; Zuellig, Heinold, Kondratieff, & Ruiter, 2012).
- Cheumatopsyche aphanta Ross, 1938, IL;  
 male genitalia (Miller, 1965, not reliable, Flint, pers comm);  
 male & female genitalia (Gordon, 1974);  
 male & female genitalia (Nimmo, 1987);  
 male genitalia (Houghton, 2012);  
 OK/TX (Resh, White, & White, 1978);  
 AR (Ross, 1944; Unzicker, Aggus, & Warren, 1970; Gordon, 1974; Hamilton & Schuster, 1979; Nimmo, 1987; Bowles & Mathis, 1989; Moulton & Stewart, 1996; Bowles, Cheri, Usrey, & Williams, 2020);  
 IL (Ross, 1938; Gordon, 1974; Hamilton & Schuster, 1979; Nimmo, 1987; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1944; Hamilton & Schuster, 1979; Waltz & McCafferty, 1983; Nimmo, 1987; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton & Schuster, 1979; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Hamilton & Schuster, 1979; Nimmo, 1987; Moulton & Stewart, 1996; Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ME (Huryn & Harris, 2000);  
 MI (Leonard and Leonard, 1949; Hamilton & Schuster, 1979; Nimmo, 1987; Moulton & Stewart, 1996; Houghton, Brandin, & Brakel, 2011; Houghton, 2016; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Gordon, 1974; Hamilton & Schuster, 1979; Nimmo, 1987; MacLean, 1995; Moulton & Stewart, 1996; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

- MO (Gordon, 1974; Hamilton & Schuster, 1979; Nimmo, 1987; Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- NB (Gordon, 1974; Hamilton & Schuster, 1979; Nimmo, 1987; Moulton & Stewart, 1996);
- ND (Harris, Lago, & Carlson, 1980; Nimmo, 1987; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- NH (Miller, 1965, not reliable, Flint, pers comm; Moulton & Stewart, 1996);
- NY (Gordon, 1974; Hamilton & Schuster, 1979; Nimmo, 1987; Moulton & Stewart, 1996);
- OH (McElravy, Arsuffi, & Foote, 1977; Petersen & Foote, 1980; Huryn & Foote, 1983; MacLean & MacLean, 1984; Usis & MacLean, 1986; Nimmo, 1987; Garono & MacLean, 1988; Moulton & Stewart, 1996; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- OK (Moulton & Stewart, 1996);
- PA (Miller, 1965, not reliable, Flint, pers comm; Masteller & Flint, 1992; Moulton & Stewart, 1996);
- QC (Roy & Harper, 1979; Nimmo, 1987; Moulton & Stewart, 1996);
- SD (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- TN (Edwards, 1966; Etnier & Schuster, 1979; Hamilton & Schuster, 1979; Nimmo, 1987; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998);
- TX (Moulton & Stewart, 1996; unconfirmed or dubious according to Moulton & Stewart, 1997);
- VT (Miller, 1965, not reliable, Flint, pers comm; Moulton & Stewart, 1996);
- WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hilsenhoff, 1995; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Cheumatopsyche arizonensis (Ling, 1938), Hydropsychodes, AZ;  
 Cheumatopsyche zion Ross, 1947, UT (Gordon, 1974);  
 male & female genitalia (Gordon, 1974);  
 southwestern United States (Flint, 1967);  
 AZ (Ling, 1938; Gordon, 1974; Jackson, 1988  
 Moulton, Stewart, & Young, 1994; Houghton, 2001; Blinn & Ruiter, 2006;  
 Blinn & Ruiter, 2009a; Blinn & Ruiter, 2009b; Blinn, Ruiter, & Haden, 2012);
- CA (Gordon, 1974; Resh & Mendez, 2022);
- NM (Gordon, 1974; Vieira, Kondratieff, Ruiter, & Durfee, 2009);
- NV (Gordon, 1974; Ruiter, Baumann, & Flint, 2014);
- TX (Ross, 1944; Moulton & Stewart, 1997);
- UT (Ross, 1947; Gordon, 1974; Baumann & Unzicker, 1981);
- WY (Ruiter & Lavigne, 1985);  
 Mexico (Flint, 1967).
- Cheumatopsyche bibbensis Gordon, Harris, & Lago, 1986, AL;  
 AL (Gordon, Harris, & Lago, 1986; Lago & Harris, 1987;  
 Harris, 1990; Harris, O'Neil, & Lago, 1991;  
 Morse et al, 1997).
- Cheumatopsyche burksi Ross, 1941, IL;  
 male genitalia (Miller, 1965, not reliable, Flint, pers comm);  
 male & female genitalia (Gordon, 1974);  
 male & female genitalia (Nimmo, 1987);  
 AL (Harris, Lago, & O'Neil, 1984; Harris, 1987;  
 Lago & Harris, 1987; Harris, O'Neil, & Lago, 1991;  
 Moulton & Stewart, 1996; Hicks & Haynes, 2000a;  
 Hicks & Haynes, 2000b; Harris & O'Neil, 2015);
- AR (Bowles & Mathis, 1989; Moulton & Stewart, 1996; Etnier, 2010);

- CT (Miller, 1965, not reliable, Flint, pers comm;  
Moulton & Stewart, 1996);
- FL (Ross, 1941; Frost, 1966; Gordon, 1974; Gordon, 1984; Nimmo, 1987;  
Pescador, Rasmussen, & Harris, 1995, 2004; Moulton & Stewart, 1996;  
Rasmussen, 2004; Denson, Rasmussen, & Harris, 2016);
- IL (Ross, 1941; Nimmo, 1987; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- IN (Gordon, 1974; Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- KY (Resh, 1975; Nimmo, 1987; Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006;  
Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- LA (Gordon, 1974; Moulton & Stewart, 1996);
- MS (Lago, Holzenthal, & Harris, 1982; Nimmo, 1987;  
Moulton & Stewart, 1996);
- NY (Miller, 1965, not reliable, Flint, pers comm;  
Moulton & Stewart, 1996);
- OK (Bowles & Mathis, 1992; Moulton & Stewart, 1996);
- TN (Edwards, 1966; Etnier & Schuster, 1979; Nimmo, 1987;  
Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998;  
Etnier, Bauer, & Zirkle, 2006);
- TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);
- VA (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004;  
not in VA according to Flint, Hoffman, & Parker, 2008);
- VT (Miller, 1965, not reliable, Flint, pers comm;  
Moulton & Stewart, 1996).
- Cheumatopsyche cahaba Gordon, Harris, & Lago, 1986, AL;  
AL (Gordon, Harris, & Lago, 1986; Lago & Harris, 1987;  
Harris, 1990; Harris, O'Neil, & Lago, 1991;  
Morse et al, 1997).
- Cheumatopsyche campyla Ross, 1938, IL;  
male genitalia (Miller, 1965, not reliable, Flint, pers comm);  
male & female genitalia (Gordon, 1974);  
wings, male & female genitalia (Schmid, 1980);  
male & female genitalia (Nimmo, 1987);  
supermale genitalia (Houghton, 2004b);  
male genitalia (Houghton, 2012);
- NC/SC (Unzicker, Resh, & Morse, 1982);
- OK/TX (Resh, White, & White, 1978);
- AB (Nimmo, 1987; Moulton & Stewart, 1996);
- AL (Gordon, 1974; Harris, Lago, & O'Neil, 1984;  
Lago & Harris, 1987; Harris, 1987; Nimmo, 1987;  
Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991;  
Moulton & Stewart, 1996; Hicks & Haynes, 2000a;  
Hicks & Haynes, 2000b);
- AR (Ross, 1944; Unzicker, Aggus, & Warren, 1970; Gordon, 1974; Nimmo, 1987;  
Bowles & Mathis, 1989; Moulton & Stewart, 1996;  
Bowles, Cheri, Usrey, & Williams, 2020);
- AZ (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);
- BC (Denning, 1943; Ross and Spencer, 1952; Gordon, 1974;  
Nimmo & Scudder, 1978; Nimmo & Scudder, 1983; Nimmo, 1987;  
Moulton & Stewart, 1996);
- CA (Denning, 1956; Nimmo, 1987; Moulton & Stewart, 1996; Resh & Mendez, 2022);
- CO (Herrmann, Ruiter, & Unzicker, 1986; Moulton & Stewart, 1996;  
Zuellig, Heinold, Kondratieff, & Ruiter, 2012);

CT (Miller, 1965, not reliable, Flint, pers comm; Nimmo, 1987; Moulton & Stewart, 1996);

DE (Lake, 1984; Moulton & Stewart, 1996);

FL (Pescador, Rasmussen, & Harris, 2004; Rasmussen, 2004; Denson, Rasmussen, & Harris, 2016);

GA (Ross, 1944; Gordon, 1974; Nimmo, 1987; Moulton & Stewart, 1996);

IA (Ross, 1938; Wenke, 1967; Gordon, 1974; Nimmo, 1987; Moulton & Stewart, 1996; Blinn, Ruiter, & Flint, 2009; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

ID (Denning, 1943; Gordon, 1974; Newell & Minshall, 1977; Nimmo, 1987; Moulton & Stewart, 1996);

IL (Ross, 1938; Harris, 1971; Gordon, 1974; Nimmo, 1987; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

IN (Ross, 1938; Ross, 1944; Gordon, 1974; Waltz & McCafferty, 1983; Nimmo, 1987; Moulton & Stewart, 1996; Zhou et al., 2011; DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

KS (Ross, 1944; Hamilton & Schuster, 1979; Nimmo, 1987; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

KY (Resh, 1975; Haag, Resh, & Neff, 1984; Nimmo, 1987; Floyd & Schuster, 1990; Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006; Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

LB (Nimmo, 1987; Moulton & Stewart, 1996);

MA (Miller, 1965, not reliable, Flint, pers comm; Neves, 1979; Nimmo, 1987; Moulton & Stewart, 1996);

MB (Denning, 1943; Gordon, 1974; Flannagan, 1978; Flannagan & Flannagan, 1982; Resh, Rosenberg, & Wiens, 1983; Nimmo, 1987; Moulton & Stewart, 1996; Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Zhou et al., 2011; Ruiter, Boyle, & Zhou, 2013);

ME (Miller, 1965, not reliable, Flint, pers comm; Blickle & Morse, 1966; Nimmo, 1987; Moulton & Stewart, 1996; Huryn & Harris, 2000);

MI (Ross, 1938; Gordon, 1974; Nimmo, 1987; Davis, Hudson, & Armitage, 1991; Moulton & Stewart, 1996; Houghton, Brandin, & Brakel, 2011; Wright, Pytel, & Houghton, 2013; Houghton, 2016; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018; Houghton & Lardner, 2020; Houghton, 2022; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MN (Denning, 1943; Etnier, 1965; Gordon, 1974; Nimmo, 1987; Moulton & Stewart, 1996; Ruiter, 1996; Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2004a, 2004b; Houghton & Holzenthal, 2010; Zhou et al., 2011; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MO (Ross, 1944; Gordon, 1974; Nimmo, 1987; Mathis & Bowles, 1992; Moulton & Stewart, 1996; Bowles, 2020; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MS (Harris & Lawrence, 1978; Moulton & Stewart, 1996);

MT (Ross, 1938; Newell, 1970; Newell & Potter, 1973; Roemhild, 1982; Nimmo, 1987; Moulton & Stewart, 1996);

NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);

ND (Denning, 1943; Harris, Lago, & Carlson, 1980; Nimmo, 1987; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

NE (Gordon, 1974; Nimmo, 1987; Moulton & Stewart, 1996; Zuellig, Heinold, Kondratieff, & Ruiter, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

NF (Nimmo, 1987; Moulton & Stewart, 1996; Moulton & Stewart, 1996);

NH (Morse and Blickle, 1953; Miller, 1965, not reliable, Flint, pers comm; Nimmo, 1987; Moulton & Stewart, 1996);

NJ (Miller, 1965, not reliable, Flint, pers comm; Nimmo, 1987; Moulton & Stewart, 1996);

NM (Ross, 1944; Gordon, 1974; Nimmo, 1987; Moulton & Stewart, 1996);

NS (Nimmo, 1987; Moulton & Stewart, 1996);

NV (Ruiter, Baumann, & Flint, 2014);

NY (Ross, 1941; Miller, 1965, not reliable, Flint, pers comm; Nimmo, 1987; Moulton & Stewart, 1996; Myers, Kondratieff, Mihuc, & Ruiter, 2011; Tozer, 2018);

OH (Ross, 1938; Marshall, 1939; Petersen & Foote, 1980; Huryn & Foote, 1983; MacLean & MacLean, 1984; Usis & MacLean, 1986; Nimmo, 1987; Garono & MacLean, 1988; Moulton & Stewart, 1996; Houghton, 2004b; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

OK (Gordon, 1974; Nimmo, 1987; Bowles & Mathis, 1992; Moulton & Stewart, 1996; Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006);

ON (Ross, 1938; Gordon, 1974; Nimmo, 1987; Harper, 1989; Blades & Marshall, 1994; Moulton & Stewart, 1996; Zhou et al., 2011);

OR (Ross, 1938; Gordon, 1974; Anderson, 1976; Nimmo, 1987; Anderson & Hansen, 1987; Moulton & Stewart, 1996);

PA (Ross, 1944; Miller, 1965, not reliable, Flint, pers comm; Masteller & Flint, 1979; Nimmo, 1987; Masteller & Flint, 1992; Moulton & Stewart, 1996);

QC (Nimmo, 1966; Nimmo, 1987; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1975; Roy & Harper, 1979; Harper, 1989; Moulton & Stewart, 1996);

SD (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

SK (Gordon, 1974; Nimmo, 1987; Moulton & Stewart, 1996);

TN (Edwards, 1966; Etnier & Schuster, 1979; Nimmo, 1987; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998; Etnier, Bauer, & Zirkle, 2006);

TX (Ross, 1944; Cloud & Stewart, 1974; Rhame & Stewart, 1976; Nimmo, 1987; Moulton & Stewart, 1996; Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997; Bowles, Tiemann, & Easley, 2007);

UT (Knowlton and Harmston, 1939; Baumann & Unzicker, 1981; Nimmo, 1987; Moulton & Stewart, 1996);

VA (Gordon, 1974; Parker & Voshell, 1981; Nimmo, 1987; Hoffman & Parker, 1997; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004; Flint, 2011);

VT (Miller, 1965, not reliable, Flint, pers comm; Wimmer, 1979; Moulton & Stewart, 1996);

WA (Denning, 1943; Gordon, 1974; Nimmo, 1987; Moulton & Stewart, 1996; Newell, Ruiter, & Strenge, 2001; Zack, Ruiter, Strenge, & Landolt, 2006);

WI (Ross, 1938; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Nimmo, 1987; Lillie & Hilsenhoff, 1992; Hilsenhoff, 1995; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

- WV (Gordon, 1974; Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016);  
 WY (Ross, 1938; Ross, 1944; Gordon, 1974; Ruiter & Lavigne, 1985;  
 Nimmo, 1987; Moulton & Stewart, 1996; Ruiter, 1996;  
 Zuellig, Pineda, & Kondratieff, 2002);  
 YT (Wiggins & Parker, 1997).
- Cheumatopsyche comis Edwards and Arnold, 1961, TX;  
 Cheumatopsyche flinti Gordon, 1974, TX (Moulton, 1996);  
 male & female genitalia (Gordon, 1974);  
 NM (Gordon, 1974; Moulton & Stewart, 1996);  
 OK (Moulton & Stewart, 1996);  
 TX (Edwards and Arnold, 1961; Norris, Arnold, & Edwards, 1964;  
 Gordon, 1974; Moulton & Stewart, 1996; Moulton & Stewart, 1997;  
 Bowles, Tiemann, & Easley, 2007).
- Cheumatopsyche edista Gordon, 1974, SC;  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris, Lago, & O'Neil, 1984; Harris, 1987;  
 Lago & Harris, 1987; Harris, O'Neil, & Lago, 1991;  
 Hicks & Haynes, 2000a; Hicks & Haynes, 2000b; Denson, Rasmussen, & Harris, 2016);  
 FL (Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004;  
 Denson, Rasmussen, & Harris, 2016);  
 GA (Gordon, 1974);  
 SC (Gordon, 1974; Morse, Chapin, Herlong, & Harvey, 1980).
- Cheumatopsyche ela Denning, 1942, NC;  
 male & female genitalia (Gordon, 1974);  
 male & female genitalia (Nimmo, 1987);  
 GA/SC (Wallace, 1975);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris, Lago, & O'Neil, 1984; Harris, 1987;  
 Lago & Harris, 1987; Harris, O'Neil, & Lago, 1991);  
 DC (Gordon, 1974);  
 DE (Lake, 1984);  
 GA (Harris, O'Neil, & Lago, 1991);  
 KY (Evans, Floyd, Etnier, Cook, & Vogel, 2017;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MB (Ruiter, Boyle, & Zhou, 2013);  
 MD (Flint, 2008);  
 ME (Blickle & Morse, 1966; Nimmo, 1987);  
 NC (Denning, 1942; Gordon, 1974; Nimmo, 1987;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NY (Gordon, 1974; Nimmo, 1987; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Gordon, 1974; Nimmo, 1987; Zhou et al., 2011);  
 PA (Masteller & Flint, 1992);  
 QC (Roy & Harper, 1979; Nimmo, 1987);  
 TN (Edwards, 1966; Gordon, 1974; Etnier & Schuster, 1979;  
 Nimmo, 1987; Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Gordon, 1974; Parker & Voshell, 1981; Nimmo, 1987; Hoffman & Parker, 1997;  
 Flint, Hoffman, & Parker, 2004; Zhou et al., 2011; Flint, 2011);  
 WV (Tarter, 1990; Tarter & Floyd, 2016).
- Cheumatopsyche enigma Ross, Morse, and Gordon, 1971, GA;  
 male & female genitalia (Gordon, 1974);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AR (Bowles & Mathis, 1989; Moulton & Stewart, 1996);  
 GA (Ross, Morse, and Gordon, 1971; Gordon, 1974);

- Moulton & Stewart, 1996);  
 MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NB (Zhou et al., 2011);  
 NC (Gordon, 1974; Ross & Wallace, 1982;  
 Armitage & Tennessen, 1984;  
 Morse, Hamilton, & Hoffman, 1989; Moulton & Stewart, 1996;  
 Floyd, Morse, & Harris, 1997; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 PA (Masteller & Flint, 1992);  
 SC (Ross, Morse, & Gordon, 1971; Gordon, 1974;  
 Morse, Hamilton, & Hoffman, 1989; Floyd & Morse, 1993;  
 Moulton & Stewart, 1996; Floyd, Morse, & Harris, 1997);  
 VA (Parker & Voshell, 1981; Moulton & Stewart, 1996; as a distinct species,  
 Flint, Hoffman, & Parker, 2004).
- Cheumatopsyche enonis* Ross, 1938, WY;  
*Cheumatopsyche geolca* Denning, 1952, NV (Gordon, 1974);  
 male & female genitalia (Gordon, 1974);  
 male & female genitalia (Nimmo, 1987);  
 AZ (Nimmo, 1987; Houghton, 2001; Blinn & Ruiter, 2006; Blinn & Ruiter, 2009a);  
 CO (Herrmann, Ruiter, & Unzicker, 1986);  
 ID (Gordon, 1974; Newell & Minshall, 1977; Nimmo, 1987);  
 MT (Roemhild, 1982; Nimmo, 1987);  
 NM (Gordon, 1974; Blinn & Ruiter, 2009a);  
 NV (Denning, 1952; Gordon, 1974; Nimmo, 1987; Ruiter, Baumann, & Flint, 2014);  
 OR (Gordon, 1974; Anderson, 1976; Nimmo, 1987);  
 UT (Gordon, 1974; Baumann & Unzicker, 1981; Nimmo, 1987);  
 WY (Ross, 1938; Ruiter & Lavigne, 1985; Nimmo, 1987).
- Cheumatopsyche etrona* Ross, 1941, GA;  
 female genitalia (Gordon, 1972);  
 male & female genitalia (Gordon, 1974);  
 net (Wallace, 1975);  
 GA/NC/SC (Gordon & Wallace, 1975);  
 GA/SC (Wallace, 1975);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 GA (Ross, 1941; Gordon, 1972; Gordon, 1974);  
 NC (Gordon, 1972; Gordon, 1974; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 SC (Gordon, 1972; Gordon, 1974; Morse, Hamilton, & Hoffman, 1989;  
 Floyd, Morse, & Harris, 1997);  
 TN (Etnier & Schuster, 1979; Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Flint, Hoffman, & Parker, 2004).
- Cheumatopsyche gelita* Denning, 1952, AZ;  
 male & female genitalia (Gordon, 1974);  
 AZ (Denning, 1952; Gordon, 1974; Blinn & Ruiter, 2006; Blinn & Ruiter, 2009a);  
 Mexico (Flint, 1967).
- Cheumatopsyche geora* Denning, 1948, GA;  
 female genitalia (Gordon, 1972);  
 male & female genitalia (Gordon, 1974);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris et al, 1983; Harris, Lago, & O'Neil, 1984;  
 Harris, 1987; Lago & Harris, 1987;  
 Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991;  
 Hicks & Haynes, 2000a; Hicks & Haynes, 2000b);  
 CT (Harris, O'Neil, & Lago, 1991; Nelson & Downs, 1995);  
 DE (Lake, 1984);  
 GA (Denning, 1948; Gordon, 1972; Gordon, 1974);

KY (Resh, 1975; Etnier & Schuster, 1979; Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Lago, Holzenthal, & Harris, 1982);  
 NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 OH (Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 PA (Masteller & Flint, 1992);  
 SC (Gordon, 1972; Gordon, 1974; Morse, Hamilton, & Hoffman, 1989);  
 TN (Harris, O'Neil, & Lago, 1991);  
 VA (Gordon, 1974; Parker & Voshell, 1981; Flint, Hoffman, & Parker, 2004; Flint, 2011).  
*Cheumatopsyche gordonae* Lago & Harris, 1983, FL;  
 FL (Lago & Harris, 1983; Harris, Lago, & Scheiring, 1982; Gordon, 1984; Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004);  
 KY (Evans, Floyd, Etnier, Cook, & Vogel, 2017; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).  
*Cheumatopsyche gracilis* (Banks, 1899), Hydropsyche, CO;  
 male & female genitalia (Gordon, 1974);  
 male & female genitalia (Nimmo, 1987);  
 male genitalia (Houghton, 2012);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AB (Nimmo, 1987; Moulton & Stewart, 1996);  
 AL (Harris, Lago, & O'Neil, 1984; Harris, 1987; Lago & Harris, 1987; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 AR (Unzicker, Aggus, & Warren, 1970; Hamilton & Schuster, 1979; Nimmo, 1987; Bowles & Mathis, 1989; Moulton & Stewart, 1996);  
 BC (Ross and Spencer, 1952; Gordon, 1974; Hamilton & Schuster, 1979; Nimmo & Scudder, 1983; Nimmo, 1987; Moulton & Stewart, 1996);  
 CO (Banks, 1899; Hamilton & Schuster, 1979; Herrmann, Ruiter, & Unzicker, 1986; Nimmo, 1987; Moulton & Stewart, 1996; Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 CT (Gordon, 1974; Hamilton & Schuster, 1979; Nimmo, 1987; Nelson & Downs, 1995; Moulton & Stewart, 1996);  
 KS (Hamilton & Schuster, 1979; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LB (Nimmo, 1987; Moulton & Stewart, 1996);  
 MA (Miller, 1965, not reliable, Flint, pers comm; Neves, 1979; Nimmo, 1987; Moulton & Stewart, 1996);  
 MB (Gordon, 1974; Flannagan, 1978; Hamilton & Schuster, 1979; Flannagan & Flannagan, 1982; Nimmo, 1987; Moulton & Stewart, 1996);  
 ME (Miller, 1965, not reliable, Flint, pers comm; Mingo & Gibbs, 1980; Bilger, 1986; Nimmo, 1987; Moulton & Stewart, 1996);  
 MI (Leonard and Leonard, 1949; Ellis, 1962; Gordon, 1974; Hamilton & Schuster, 1979; Nimmo, 1987; Moulton & Stewart, 1996; Houghton, Brandin, & Brakel, 2011; Houghton, 2016; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018; Houghton, 2022; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Denning, 1943; Etnier, 1965; Nimmo, 1974; Nimmo, 1987; Hamilton & Schuster, 1979; Moulton & Stewart, 1996; Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);



MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MT (Newell & Potter, 1973; Roemhild, 1982; Nimmo, 1987);  
NC (Gordon, 1974; Hamilton & Schuster, 1979;  
Etnier & Schuster, 1979; Nimmo, 1987;  
Morse, Hamilton, & Hoffman, 1989; Moulton & Stewart, 1996;  
Floyd, Morse, & Harris, 1997; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
ND (Harris, Lago, & Carlson, 1980; Nimmo, 1987; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NF (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
NJ (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
NS (Gordon, 1974; Hamilton & Schuster, 1979; Nimmo, 1987);  
NY (Gordon, 1974; Hamilton & Schuster, 1979; Nimmo, 1987;  
Moulton & Stewart, 1996; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
OH (Huryn & Foote, 1983; Usis & MacLean, 1986; Garono & MacLean, 1988;  
Moulton & Stewart, 1996; Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
OK (Gordon, 1974; Nimmo, 1987; Hamilton & Schuster, 1979;  
Bowles & Mathis, 1992; Moulton & Stewart, 1996);  
ON (Sprules, 1947; Nimmo, 1987; Harper, 1989;  
Moulton & Stewart, 1996);  
PA (Masteller & Flint, 1979; Nimmo, 1987; Masteller & Flint, 1992;  
Moulton & Stewart, 1996);  
QC (Robert, 1958; Corbet, Schmid, & Augustin, 1966;  
Roy & Harper, 1975; Roy & Harper, 1979;  
Williams & Williams, 1979; Nimmo, 1987; Harper, 1989;  
Moulton & Stewart, 1996);  
SC (Morse, Hamilton, & Hoffman, 1989; Moulton & Stewart, 1996;  
Floyd, Morse, & Harris, 1997);  
TN (Nimmo, 1987; Moulton & Stewart, 1996);  
UT (Gordon, 1974; Hamilton & Schuster, 1979;  
Baumann & Unzicker, 1981; Nimmo, 1987;  
Moulton & Stewart, 1996);  
VA (Gordon, 1974; Hamilton & Schuster, 1979; Nimmo, 1987;  
Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004);  
VT (Miller, 1965, not reliable, Flint, pers comm; Wimmer, 1979;  
Moulton & Stewart, 1996);  
WI (Denning, 1943; Gordon, 1974; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973;  
Hilsenhoff, 1975; Hamilton & Schuster, 1979; Steven & Hilsenhoff, 1984;  
Nimmo, 1987; Hilsenhoff, 1995; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
WV (Gordon, 1974; Hamilton & Schuster, 1979; Nimmo, 1987;  
Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016);  
WY (Ruiter & Lavigne, 1985; Moulton & Stewart, 1996).

Cheumatopsyche gyra Ross, 1938, NC;  
male genitalia (Miller, 1965, not reliable, Flint, pers comm);  
female genitalia (Gordon, 1972);  
male & female genitalia (Gordon, 1974);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
GA (Gordon, 1972; Gordon, 1974; Gordon & Wallace, 1975);  
KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
ME (Miller, 1965, not reliable, Flint, pers comm);  
NC (Ross, 1938; Gordon, 1972; Gordon, 1974;  
Gordon & Wallace, 1975; Armitage & Tennessen, 1984);

Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);  
 PA (Masteller & Flint, 1992);  
 SC (Gordon, 1972; Gordon, 1974; Gordon & Wallace, 1975;  
 Morse, Chapin, Herlong, & Harvey, 1980;  
 Morse, Hamilton, & Hoffman, 1989;  
 Floyd, Morse, & Harris, 1997);  
 VA (Parker & Voshell, 1981; Flint, Hoffman, & Parker, 2004);  
 WV (Tarter, 1990; Tarter & Floyd, 2016).  
 Cheumatopsyche halima Denning, 1948, MA;  
 male & female genitalia (Gordon, 1974);  
 male & female genitalia (Nimmo, 1987);  
 AR (Gordon, 1974; Nimmo, 1987; Bowles & Mathis, 1989;  
 Moulton & Stewart, 1996);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Denning, 1948; Gordon, 1974; Neves, 1979; Nimmo, 1987;  
 Moulton & Stewart, 1996);  
 ME (Gordon, 1974; Nimmo, 1987; Moulton & Stewart, 1996);  
 NB (Nimmo, 1987; Moulton & Stewart, 1996; Zhou et al., 2011);  
 NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (McElravy, Arsuffi, & Foote, 1977; Huryn & Foote, 1983; Nimmo, 1987;  
 Moulton & Stewart, 1996; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 PA (Masteller & Flint, 1979; Nimmo, 1987; Masteller & Flint, 1992;  
 Moulton & Stewart, 1996);  
 QC (Roy & Harper, 1979; Nimmo, 1987; Moulton & Stewart, 1996);  
 SC (Morse, Hamilton, & Hoffman, 1989; Moulton & Stewart, 1996);  
 VA (Gordon, 1974; Parker & Voshell, 1981; Nimmo, 1987;  
 Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004);  
 WV (Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016).  
 Cheumatopsyche harwoodi Denning, 1948, TN;  
 male & female genitalia (Gordon, 1974);  
 male & female genitalia (Nimmo, 1987);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AB (Zhou et al., 2011);  
 AL (Harris, 1987; Lago & Harris, 1987;  
 Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991);  
 CT (Harris, O'Neil, & Lago, 1991);  
 GA (Gordon, 1974; Nimmo, 1987; Frazer, Harris, & Ward, 1991);  
 IN (Waltz & McCafferty, 1983;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Gordon, 1974; Resh, 1975; Nimmo, 1987; Floyd & Schuster, 1990;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MB (Zhou et al., 2011);  
 ME (Gordon, 1974; Nimmo, 1987);  
 NB (Zhou et al., 2011);  
 NC (Floyd, Morse, & Harris, 1997; DeWalt, Jacobus, & McCafferty, 2007;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NS (Nimmo, 1987);  
 NY (Gordon, 1974; Nimmo, 1987; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (McElravy & Foote, 1978, doubtful record, Huryn & Foote, 1983; Nimmo, 1987;  
 Armitage et al., 2011);

Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Nimmo, 1987; Zhou et al., 2011);  
 PA (Masteller & Flint, 1980; Masteller & Flint, 1984;  
 Masteller & Flint, 1992);  
 PE (Nimmo, 1987);  
 RI (Gordon, 1974; Nimmo, 1987; Hunt, 2017);  
 SC (Gordon, 1974; Nimmo, 1987; Floyd, Morse, & Harris, 1997);  
 TN (Denning, 1948; Gordon, 1974; Nimmo, 1987; Etnier, Baxter, Fraley, & Parker, 1998;  
 DeWalt & Heinold, 2005; DeWalt, Jacobus, & McCafferty, 2007);  
 VA (Gordon, 1974; Parker & Voshell, 1981; Nimmo, 1987;  
 Hoffman & Parker, 1997; Flint, Hoffman, & Parker, 2004);  
 WV (Gordon, 1974; Nimmo, 1987; Tarter, 1990; Tarter & Floyd, 2016).  
 Cheumatopsyche helma Ross, 1939, TN;  
 male genitalia (Gordon, 1974);  
 female genitalia (Gordon, Harris, & Lago, 1986);  
 male & female genitalia (Nimmo, 1987);  
 AL (Gordon, Harris, & Lago, 1986; Lago & Harris, 1987;  
 Harris, 1990; Frazer, Harris, & Ward, 1991;  
 Harris, O'Neil, & Lago, 1991);  
 AR (Ruiter, 2000);  
 KY (Ross, 1939; Resh, 1975; Nimmo, 1987;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ME (Miller, 1965, not reliable, Flint, pers comm;  
 Blickle & Morse, 1966; Nimmo, 1987);  
 NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 PA (Masteller & Flint, 1992);  
 TN (Ross, 1939; Gordon, 1974; Nimmo, 1987; Etnier, Baxter, Fraley, & Parker, 1998;  
 DeWalt & Heinold, 2005);  
 WV (Tarter, 1990; Tarter & Floyd, 2016).  
 Cheumatopsyche kinlockensis Gordon, Harris, & Lago, 1986, AL;  
 AL (Gordon, Harris, & Lago, 1986; Harris, 1987; Lago & Harris, 1987; Harris, 1990;  
 Harris, O'Neil, & Lago, 1991; Morse et al, 1997; Hicks & Haynes, 2000a).  
 Cheumatopsyche lasia Ross, 1938, OK;  
 male genitalia (Miller, 1965, not reliable, Flint, pers comm);  
 male & female genitalia (Gordon, 1974);  
 eggs (Rhame & Stewart, 1976);  
 male & female genitalia (Nimmo, 1987);  
 male genitalia (Houghton, 2012);  
 AB (Nimmo, 1987);  
 AR (Bowles & Mathis, 1989);  
 AZ (Gordon, 1974; Nimmo, 1987; Moulton & Stewart, 1996; Blinn & Ruiter, 2006);  
 CO (Ruiter, 1999; Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 IA (Ross, 1938; Hamilton & Schuster, 1979; Nimmo, 1987; Moulton & Stewart, 1996;  
 Blinn, Ruiter, & Flint, 2009;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1938; Harris, 1971; Hamilton & Schuster, 1979; Nimmo, 1987;  
 Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Denning, 1943; Gordon, 1974; Hamilton & Schuster, 1979; Nimmo, 1987;  
 Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MN (Denning, 1943; Etnier, 1965; Gordon, 1974; Hamilton & Schuster, 1979; Nimmo, 1987; Moulton & Stewart, 1996; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MO (Ross, 1944; Hamilton & Schuster, 1979; Nimmo, 1987; Mathis & Bowles, 1992; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MT (Denning, 1943; Hamilton & Schuster, 1979; Roemhild, 1982; Nimmo, 1987; Moulton & Stewart, 1996);

ND (Harris, Lago, & Carlson, 1980; Nimmo, 1987; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

NE (Gordon, 1974; Nimmo, 1987; Moulton & Stewart, 1996; Harris, Kondratieff, & Boyle, 2000; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

NM (Gordon, 1974; Nimmo, 1987; Moulton & Stewart, 1996);

OH (Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

OK (Ross, 1938; Hamilton & Schuster, 1979; Nimmo, 1987; Bowles & Mathis, 1992; Moulton & Stewart, 1996; Zuellig, Kondratieff, Schmidt, Durfee, Ruitter, & Prather, 2006);

PA (Miller, 1965, not reliable, Flint, pers comm; Moulton & Stewart, 1996);

SD (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

SK (Nimmo, 1987);

TX (Denning, 1943; Edwards & Arnold, 1961; Gordon, 1974; Cloud & Stewart, 1974; Rhame & Stewart, 1976; Hamilton & Schuster, 1979; Nimmo, 1987; Moulton & Stewart, 1996; Moulton & Stewart, 1997; Bowles, Tiemann, & Easley, 2007);

WY (Denning, 1943; Hamilton & Schuster, 1979; Ruitter & Lavigne, 1985; Nimmo, 1987; Moulton & Stewart, 1996);

Mexico (Bueno-Soria & Flint, 1978; Moulton & Stewart, 1996).

Cheumatopsyche logani Gordon and Smith, 1974, ID; male genitalia (Gordon, 1974); male genitalia (Nimmo, 1987); ID (Gordon and Smith, 1974; Nimmo, 1987); MT (Roemhild, 1982; Nimmo, 1987); WA (Gordon & Smith, 1974; Gordon, 1974; Nimmo, 1987).

Cheumatopsyche mickeli Denning, 1942, CA; male & female genitalia (Gordon, 1974); male & female genitalia (Nimmo, 1987); CA (Denning, 1942; Ross, 1951; Gordon, 1974; Nimmo, 1987; McElravy & Resh, 1987; Jackson & Resh, 1989; Resh & Mendez, 2022); ID (Nimmo, 1987); OR (Anderson, 1976; Nimmo, 1987); WY (Gordon, 1974; Ruitter & Lavigne, 1985; Nimmo, 1987); Mexico (Ross, 1951; Gordon, 1974; Nimmo, 1987).

Cheumatopsyche minuscula (Banks, 1907), Hydropsyche, MD; Cheumatopsyche montrealensis Nimmo, 1966, QC (Gordon, 1974); male genitalia, larval frons (Miller, 1965, not reliable, Flint, pers comm); male & female genitalia (Gordon, 1974); male & female genitalia (Nimmo, 1987); male genitalia (Houghton, 2012); GA/NC/SC (Gordon & Wallace, 1975);

GA/SC (Wallace, 1975);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris, Lago, & O'Neil, 1984; Harris, 1987;  
     Lago & Harris, 1987; Harris, O'Neil, & Lago, 1991;  
     Moulton & Stewart, 1996);  
 AR (Ross, 1944; Unzicker, Aggus, & Warren, 1970; Gordon, 1974;  
     Hamilton & Schuster, 1979; Nimmo, 1987; Bowles & Mathis, 1989;  
     Moulton & Stewart, 1996; Bowles, Cheri, Usrey, & Williams, 2020);  
 CT (Harris, O'Neil, & Lago, 1991; Nelson & Downs, 1995;  
     Moulton & Stewart, 1996);  
 DC (Gordon, 1974; Moulton & Stewart, 1996);  
 FL (Pescador, Rasmussen, & Harris, 2004; Denson, Rasmussen, & Harris, 2016);  
 GA (Ross, 1944; Gordon, 1974; Hamilton & Schuster, 1979;  
     Nimmo, 1987; Moulton & Stewart, 1996);  
 IL (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton & Schuster, 1979; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Ross, 1944; Resh, 1975; Hamilton & Schuster, 1979; Nimmo, 1987;  
     Moulton & Stewart, 1996; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Miller, 1965, not reliable, Flint, pers comm; Neves, 1979;  
     Nimmo, 1987; Moulton & Stewart, 1996);  
 MB (Gordon, 1974; Flannagan & Flannagan, 1982; Nimmo, 1987;  
     Moulton & Stewart, 1996);  
 MD (Banks, 1907; Gordon, 1974; Hamilton & Schuster, 1979;  
     Nimmo, 1987; Moulton & Stewart, 1996; Flint, 2008);  
 ME (Miller, 1965, not reliable, Flint, pers comm;  
     Blickle & Morse, 1966; Gordon, 1974;  
     Hamilton & Schuster, 1979; Mingo & Gibbs, 1980;  
     Bilger, 1986; Nimmo, 1987; Moulton & Stewart, 1996; Huryn & Harris, 2000);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Denning, 1943; Etnier, 1965; Gordon, 1974; Hamilton & Schuster, 1979; Nimmo, 1987;  
     Moulton & Stewart, 1996; Houghton, Holzenthal, Monson, & MacLean, 2001;  
     Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Gordon, 1974; Nimmo, 1987; Mathis & Bowles, 1992; Moulton & Stewart, 1996;  
     Ferro & Sites, 2007;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Carpenter, 1933; Hamilton & Schuster, 1979; Nimmo, 1987;  
     Moulton & Stewart, 1996; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 ND (Harris, Lago, & Carlson, 1980; Nimmo, 1987; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NH (Morse and Blickle, 1953; Miller, 1965, not reliable, Flint, pers comm;  
     Hamilton & Schuster, 1979; Nimmo, 1987;  
     Moulton & Stewart, 1996);  
 NY (Ross, 1944; Miller, 1965, not reliable, Flint, pers comm;  
     Hamilton & Schuster, 1979; Nimmo, 1987;  
     Moulton & Stewart, 1996; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (McElravy, Arsuffi, & Foote, 1977; Huryn & Foote, 1983; Nimmo, 1987;  
     Moulton & Stewart, 1996; Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Ross, 1944; Gordon, 1974; Hamilton & Schuster, 1979;  
     Nimmo, 1987; Bowles & Mathis, 1992);

- Moulton & Stewart, 1996);  
 ON (Ross, 1944; Gordon, 1974; Hamilton & Schuster, 1979;  
 Nimmo, 1987; Moulton & Stewart, 1996);  
 PA (Miller, 1965, not reliable, but plenty from PA now, Flint, pers comm;  
 Masteller & Flint, 1992;  
 Moulton & Stewart, 1996);  
 QC (Ross, 1944; Corbet, Schmid, & Augustin, 1966; Nimmo, 1966; Gordon, 1974;  
 Roy & Harper, 1975; Roy & Harper, 1979; Hamilton & Schuster, 1979; Nimmo, 1987;  
 Moulton & Stewart, 1996; Lonsdale, 2020);  
 SC (Gordon, 1974; Hamilton & Schuster, 1979; Nimmo, 1987;  
 Morse, Hamilton, & Hoffman, 1989; Moulton & Stewart, 1996);  
 TN (Carpenter, 1933; Edwards, 1966; Hamilton & Schuster, 1979;  
 Etnier & Schuster, 1979; Nimmo, 1987;  
 Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Gordon, 1974; Hamilton & Schuster, 1979; Parker & Voshell, 1981; Nimmo, 1987;  
 Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004; Flint, 2011);  
 VT (Wimmer, 1979; Moulton & Stewart, 1996);  
 WI (Denning, 1943; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
 Hamilton & Schuster, 1979; Nimmo, 1987; Hilsenhoff, 1995; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016).
- Cheumatopsyche mollala Ross, 1941, OR;  
 male & female genitalia (Gordon, 1974);  
 male & female genitalia (Nimmo, 1987);  
 AR (Unzicker, Aggus, & Warren, 1970; Nimmo, 1987; Bowles & Mathis, 1989);  
 CA (Denning, 1956; Nimmo, 1987; Resh & Mendez, 2022);  
 ID (Gordon, 1974; Nimmo, 1987);  
 MO (Etnier, 2010;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Nimmo, 1987);  
 OR (Ross, 1941; Anderson, 1976; Nimmo, 1987)  
 WA (Blinn & Ruitter, 2013).
- Cheumatopsyche morsei Gordon, 1974, LA;  
 LA (Gordon, 1974)  
 TX (Moulton & Stewart, 1997).
- Cheumatopsyche oxa Ross, 1938, IN;  
 male genitalia (Miller, 1965, not reliable, Flint, pers comm);  
 male & female genitalia (Gordon, 1974);  
 male & female genitalia (Nimmo, 1987);  
 male genitalia (Houghton, 2012);  
 larva head, prosternum (Genco, 2018);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AB (Nimmo, 1987; Moulton & Stewart, 1996);  
 AL (Harris, Lago, & O'Neil, 1984; Lago & Harris, 1987;  
 Harris, 1987; Nimmo, 1987; Frazer, Harris, & Ward, 1991;  
 Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996;  
 Hicks & Haynes, 2000a);  
 AR (Unzicker, Aggus, & Warren, 1970; Gordon, 1974; Ross, 1941; Hamilton & Schuster, 1979;  
 Nimmo, 1987; Bowles & Mathis, 1989; Moulton & Stewart, 1996;  
 Bowles, 2020; Bowles, Cheri, Usrey, & Williams, 2020);  
 BC (Nimmo & Scudder, 1983; Nimmo, 1987; Moulton & Stewart, 1996);  
 CT (Miller, 1965, not reliable, Flint, pers comm;  
 Moulton & Stewart, 1996);  
 GA (Ross, 1944; Hamilton & Schuster, 1979; Nimmo, 1987;  
 Moulton & Stewart, 1996);

IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Denning, 1943; Gordon, 1974; Hamilton & Schuster, 1979; Nimmo, 1987;  
     Moulton & Stewart, 1996; Zhou et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1938; Gordon, 1974; Hamilton & Schuster, 1979; Waltz & McCafferty, 1983;  
     Nimmo, 1987; Moulton & Stewart, 1996;  
     DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton & Schuster, 1979; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Hamilton & Schuster, 1979; Nimmo, 1987; Floyd & Schuster, 1990;  
     Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006;  
     Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MB (Cobb, Flannagan, & Friesen, 1984; Nimmo, 1987;  
     Moulton & Stewart, 1996);  
 ME (Miller, 1965, not reliable, Flint, pers comm;  
     Moulton & Stewart, 1996);  
 MI (Ross, 1938; Ellis, 1962; Hamilton & Schuster, 1979; Nimmo, 1987;  
     Moulton & Stewart, 1996; Houghton, Brandin, & Brakel, 2011;  
     Brakel, Wassink, & Houghton, 2015; Houghton, 2015; Houghton, 2016;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
     Houghton, 2022;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Denning, 1943; Etnier, 1965; Hamilton & Schuster, 1979; Nimmo, 1987;  
     Moulton & Stewart, 1996; Ruitter, 1996; Monson, 1997;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Zhou et al., 2011; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Gordon, 1974; Hamilton & Schuster, 1979; Nimmo, 1987; Mathis & Bowles, 1992;  
     Moulton & Stewart, 1996; Ferro & Sites, 2007; Zhou et al., 2011; Bowles, 2020;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Etnier, 2010);  
 MT (Roemhild, 1982; Nimmo, 1987; Moulton & Stewart, 1996);  
 NB (Zhou et al., 2011);  
 NC (Ross, 1944; Hamilton & Schuster, 1979; Nimmo, 1987;  
     Morse, Hamilton, & Hoffman, 1989; Moulton & Stewart, 1996;  
     Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010; Genco, 2018);  
 NH (Morse and Blickle, 1953; Miller, 1965, not reliable, Flint, pers comm;  
     Hamilton & Schuster, 1979; Nimmo, 1987;  
     Moulton & Stewart, 1996);  
 NY (Ross, 1944; Miller, 1965, not reliable, Flint, pers comm;  
     Hamilton & Schuster, 1979; Nimmo, 1987;  
     Moulton & Stewart, 1996; Zhou et al., 2011;  
     Myers, Kondratieff, Mihuc, & Ruitter, 2011);  
 OH (Gordon, 1974; Hamilton & Schuster, 1979; Petersen & Foote, 1980; Huryn & Foote, 1983;  
     MacLean & MacLean, 1984; Usis & MacLean, 1986; Nimmo, 1987;  
     Garono & MacLean, 1988; Moulton & Stewart, 1996; Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Bowles & Mathis, 1992; Moulton & Stewart, 1996);  
 ON (Williams & Hynes, 1973; Nimmo, 1987; Williams & Levens, 1988;  
     Williams, 1991; Moulton & Stewart, 1996);  
 PA (Miller, 1965, not reliable, Flint, pers comm;  
     Swegman, Walker, & Sykora, 1981; Masteller & Flint, 1992;  
     Moulton & Stewart, 1996);  
 QC (Roy & Harper, 1979; Hamilton & Schuster, 1979; Nimmo, 1987);

Moulton & Stewart, 1996);  
 SC (Morse, Hamilton, & Hoffman, 1989; Moulton & Stewart, 1996;  
 Floyd, Morse, & Harris, 1997);  
 SD (Gordon, 1974; Hamilton & Schuster, 1979; Nimmo, 1987; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 SK (Nimo, 1987; Moulton & Stewart, 1996);  
 TN (Ross, 1944; Edwards, 1966; Gordon, 1974;  
 Etnier & Schuster, 1979; Hamilton & Schuster, 1979;  
 Nimmo, 1987; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998;  
 DeWalt & Heinold, 2005; Etnier, Bauer, & Zirkle, 2006);  
 VA (Parker & Voshell, 1981; Nimmo, 1987; Moulton & Stewart, 1996;  
 Flint, Hoffman, & Parker, 2004);  
 VT (Miller, 1965, not reliable, Flint, pers comm;  
 Moulton & Stewart, 1996);  
 WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
 Steven & Hilsenhoff, 1984; Nimmo, 1987;  
 Hilsenhoff, 1995; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Ross, 1944; Hamilton & Schuster, 1979; Nimmo, 1987;  
 Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016);  
 WY (Ruiter & Lavigne, 1985; Moulton & Stewart, 1996).  
 Cheumatopsyche parentum Gordon, 1974, VA;  
 MD (Gordon, 1974);  
 NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 VA (Gordon, 1974; Parker & Voshell, 1981; Parker & Voshell, 1982;  
 Parker & Voshell, 1983; Hoffman & Parker, 1997; Flint, Hoffman, & Parker, 2004).  
 Cheumatopsyche pasella Ross, 1941, KY;  
 male & female genitalia (Gordon, 1974);  
 male & female genitalia (Nimmo, 1987);  
 male genitalia (Houghton, 2012);  
 GA/NC/SC (Gordon & Wallace, 1975);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris et al, 1983; Harris, Lago, & O'Neil, 1984;  
 Harris, 1987; Lago & Harris, 1987;  
 Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991;  
 Moulton & Stewart, 1996; Hicks & Haynes, 2000a;  
 Hicks & Haynes, 2000b);  
 AR (Gordon, 1974; Nimmo, 1987; Bowles & Mathis, 1989;  
 Moulton & Stewart, 1996; Zhou et al., 2011);  
 CT (Miller, 1965, not reliable, Flint, pers comm;  
 Nelson & Downs, 1995; Moulton & Stewart, 1996);  
 DE (Lake, 1984; Moulton & Stewart, 1996);  
 FL (Gordon, 1974; Harris, Lago, & Scheiring, 1982; Nimmo, 1987;  
 Pescador, Rasmussen, & Harris, 1995, 2004; Moulton & Stewart, 1996;  
 Zhou et al., 2011; Denson, Rasmussen, & Harris, 2016);  
 GA (Ross, 1941; Gordon, 1974; Nimmo, 1987;  
 Frazer, Harris, & Ward, 1991; Moulton & Stewart, 1996);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1941; Gordon, 1974; Nimmo, 1987; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1941; Waltz & McCafferty, 1983; Nimmo, 1987; Moulton & Stewart, 1996;  
 DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Ross, 1941; Gordon, 1974; Resh, 1975; Nimmo, 1987; Moulton & Stewart, 1996;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012);



Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Lago, Holzenthal, & Harris, 1982; Moulton & Stewart, 1996);  
 MA (Miller, 1965, not reliable, Flint, pers comm; Gordon, 1974;  
 Neves, 1979; Nimmo, 1987; Moulton & Stewart, 1996);  
 MD (Gordon, 1974; Nimmo, 1987; Moulton & Stewart, 1996);  
 ME (Miller, 1965, not reliable, Flint, pers comm;  
 Blickle & Morse, 1966; Gordon, 1974; Nimmo, 1987;  
 Moulton & Stewart, 1996);  
 MI (Houghton, Brandin, & Brakel, 2011;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Denning, 1943; Etnier, 1965; Nimmo, 1987;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Gordon, 1974; Lago, Holzenthal, & Harris, 1982; Nimmo, 1987;  
 Moulton & Stewart, 1996);  
 MT (Roemhild, 1982; Nimmo, 1987; Moulton & Stewart, 1996);  
 NC (Ross, 1941; Nimmo, 1987; Morse, Hamilton, & Hoffman, 1989;  
 Moulton & Stewart, 1996; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 ND (Harris, 1977; Nimmo, 1987; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NH (Morse and Blickle, 1953; Miller, 1965, not reliable, Flint, pers comm;  
 Nimmo, 1987; Moulton & Stewart, 1996);  
 NJ (Miller, 1965, not reliable, Flint, pers comm;  
 Moulton & Stewart, 1996);  
 NY (Myers, Kondratieff, Mihuc, & Ruitter, 2011);  
 OH (McElravy, Arsuffi, & Foote, 1977; MacLean & MacLean, 1980; Huryn & Foote, 1983;  
 Nimmo, 1987; Garono & MacLean, 1988; Moulton & Stewart, 1996;  
 Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Hall, 1950; Nimmo, 1987; Bowles & Mathis, 1992;  
 Moulton & Stewart, 1996;  
 Zuellig, Kondratieff, Schmidt, Durfee, Ruitter, & Prather, 2006);  
 ON (Nimmo, 1987; Moulton & Stewart, 1996);  
 OR (Anderson, 1976; Nimmo, 1987; Moulton & Stewart, 1996);  
 PA (Ross, 1941; Miller, 1965, not reliable, Flint, pers comm;  
 Gordon, 1974; Nimmo, 1987; Masteller & Flint, 1992;  
 Moulton & Stewart, 1996);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979; Nimmo, 1987;  
 Moulton & Stewart, 1996);  
 RI (Harris, O'Neil, & Lago, 1991, in error, Hunt, 2017; Moulton & Stewart, 1996);  
 SC (Gordon, 1974; Cudney & Wallace, 1980;  
 Morse, Chapin, Herlong, & Harvey, 1980; Nimmo, 1987;  
 Morse, Hamilton, & Hoffman, 1989; Moulton & Stewart, 1996;  
 Floyd, Morse, & Harris, 1997);  
 TN (Ross, 1941; Gordon, 1974; Etnier & Schuster, 1979;  
 Nimmo, 1987; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998;  
 Etnier, Bauer, & Zirkle, 2006);  
 TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);  
 VA (Gordon, 1974; Parker & Voshell, 1981; Nimmo, 1987;  
 Hoffman & Parker, 1997; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004;  
 Zhou et al., 2011);  
 VT (Wimmer, 1979; Moulton & Stewart, 1996);  
 WA (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);

- WI (Ross, 1941; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Steven & Hilsenhoff, 1984; Nimmo, 1987; Hilsenhoff, 1995; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- WV (Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016).
- Cheumatopsyche petersi Ross, Morse, and Gordon, 1971, FL;  
 male & female genitalia (Gordon, 1974);  
 AL (Lago & Harris, 1987; Harris, O'Neil, & Lago, 1991);  
 FL (Ross, Morse, and Gordon, 1971; Gordon, 1974;  
 Harris, Lago, & Scheiring, 1982; Pescador, Rasmussen, & Harris, 1995, 2004;  
 Rasmussen, 2004);  
 MS (Lago, Holzenthal, & Harris, 1982).
- Cheumatopsyche pinaca Ross, 1941, GA;  
 male genitalia (Miller, 1965, not reliable, Flint, pers comm);  
 female genitalia (Gordon, 1972);  
 male & female genitalia (Gordon, 1974);  
 male & female genitalia (Nimmo, 1987);  
 larva head, prosternum (Genco, 2018);  
 GA/NC/SC (Gordon & Wallace, 1975);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris et al, 1983; Harris, 1987; Lago & Harris, 1987;  
 Harris, O'Neil, & Lago, 1991; Hicks & Haynes, 2000a; Harris & O'Neil, 2015;  
 Denson, Rasmussen, & Harris, 2016);  
 DE (Lake, 1984);  
 FL (Gordon, 1974; Nimmo, 1987; Pescador, Rasmussen, & Harris, 1995, 2004;  
 Rasmussen, 2004; Denson, Rasmussen, & Harris, 2016);  
 GA (Ross, 1941; Gordon, 1972; Gordon, 1974; Nimmo, 1987;  
 Frazer, Harris, & Ward, 1991);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Lago, Holzenthal, & Harris, 1982);  
 MA (Gordon, 1974; Neves, 1979; Nimmo, 1987);  
 ME (Blickle & Morse, 1966; Nimmo, 1987);  
 MS (Lago, Holzenthal, & Harris, 1982);  
 NC (Ross, 1941; Gordon, 1972; Gordon, 1974; Nimmo, 1987;  
 Morse, Hamilton, & Hoffman, 1989; Floyd, Morse, & Harris, 1997;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Genco, 2018);  
 NH (Morse and Blickle, 1953; Nimmo, 1987);  
 NJ (Gordon, 1974; Nimmo, 1987);  
 PA (Miller, 1965, not reliable, Flint, pers comm;  
 Masteller & Flint, 1992);  
 RI (Gordon, 1974; Nimmo, 1987; Hunt, 2017);  
 SC (Gordon, 1972; Gordon, 1974;  
 Morse, Chapin, Herlong & Harvey, 1980; Nimmo, 1987;  
 Morse, Hamilton, & Hoffman, 1989; Floyd & Morse, 1993;  
 Floyd, Morse, & Harris, 1997);  
 TN (Etnier & Schuster, 1979; Nimmo, 1987; Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Ross, 1941; Gordon, 1974; Parker & Voshell, 1981; Nimmo, 1987;  
 Flint, Hoffman, & Parker, 2004; Flint, 2011).
- Cheumatopsyche pinula Denning, 1952, AZ;  
 male & female genitalia (Gordon, 1974);  
 AZ (Denning, 1952; Gordon, 1974; Moulton, Stewart, & Young, 1994; Houghton, 2001;  
 Blinn & Ruiter, 2006; Blinn & Ruiter, 2009a; Blinn & Ruiter, 2009b;  
 Blinn, Ruiter, & Haden, 2012);  
 NM (Gordon, 1974; Ruiter, 1996; Blinn & Ruiter, 2009a);  
 Mexico (Bueno-Soria & Flint, 1978).

Cheumatopsyche richardsoni Gordon, 1974, SC;  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 NC (Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 SC (Gordon, 1974; Morse, Chapin, Herlong, & Harvey, 1980;  
 Morse et al, 1997).

Cheumatopsyche robisoni Moulton & Stewart, 1996, AR;  
 AR (Moulton & Stewart, 1996; Etnier, 2010).

Cheumatopsyche rossi Gordon, 1974, AR;  
 AR (Gordon, 1974; Moulton & Stewart, 1996);  
 KS (Hamilton & Schuster, 1979; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OH (Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Bowles & Mathis, 1992; Moulton & Stewart, 1996).

Cheumatopsyche smithi Gordon, 1974, WA;  
 male & female genitalia (Nimmo, 1987);  
 AB (Nimmo, 1987);  
 BC (Nimmo & Scudder, 1983; Nimmo, 1987);  
 MB (Nimmo, 1987);  
 MT (Roemhild, 1982; Nimmo, 1987);  
 ND (Harris, Lago, & Carlson, 1980; Nimmo, 1987;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Nimmo, 1987);  
 OK (Bowles & Mathis, 1992);  
 SK (Nimmo, 1987);  
 TX (Moulton & Stewart, 1997; Bowles, Tiemann, & Easley, 2007);  
 WA (Gordon, 1974; Nimmo, 1987);  
 UT (Baumann & Unzicker, 1981).

Cheumatopsyche sordida (Hagen, 1861), Hydropsyche, Canada;  
 male genitalia, larval frons (Miller, 1965, not reliable, Flint, pers comm);  
 male & female genitalia (Gordon, 1974);  
 male & female genitalia (Nimmo, 1987);  
 male genitalia (Houghton, 2012);  
 Canada (Hagen, 1861);  
 NC/SC (Unzicker, Resh, & Unzicker, 1982);  
 AL (Harris, Lago, & O'Neil, 1984; Lago & Harris, 1987;  
 Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996;  
 Hicks & Haynes, 2000b);  
 AR (Ross, 1944; Unzicker, Aggus, & Warren, 1970; Gordon, 1974; Nimmo, 1987;  
 Bowles & Mathis, 1989; Moulton & Stewart, 1996;  
 Bowles, Cheri, Usrey, & Williams, 2020);  
 CT (Britton, 1920);  
 DC (Hagen, 1861; Moulton & Stewart, 1996);  
 FL (Frost, 1966, doubtful record, more likely to be Cheumatopsyche virginica);  
 GA (Gordon, 1974; Nimmo, 1987; Moulton & Stewart, 1996);  
 IL (Ross, 1944; Nimmo, 1987; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1944; Waltz & McCafferty, 1983; Nimmo, 1987; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Ross, 1944; Resh, 1975; Nimmo, 1987; Moulton & Stewart, 1996;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Lago, Holzenthal, & Harris, 1982; Moulton & Stewart, 1996);

- MB (Denning, 1943; Flannagan & Flannagan, 1982; Nimmo, 1987; Moulton & Stewart, 1996);
- MD (Gordon, 1974; Nimmo, 1987; Moulton & Stewart, 1996);
- ME (Miller, 1965, not reliable, Flint, pers comm; Blickle & Morse, 1966; Gordon, 1974; Nimmo, 1987; Moulton & Stewart, 1996; Hury & Harris, 2000);
- MI (Ross, 1944; Nimmo, 1987; Moulton & Stewart, 1996; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MN (Denning, 1943; Etnier, 1965; Nimmo, 1987; Moulton & Stewart, 1996; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MO (Ross, 1944; Nimmo, 1987; Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007; Bowles, 2020; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MS (Lago, Holzenthal, & Harris, 1982; Moulton & Stewart, 1996);
- NB (Nimmo, 1987; Moulton & Stewart, 1996);
- NC (Banks, 1908; Nimmo, 1987; Moulton & Stewart, 1996; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);
- NH (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);
- NJ (Smith, 1900; Smith, 1910; Miller, 1965, not reliable, Flint, pers comm; Gordon, 1974; Nimmo, 1987; Moulton & Stewart, 1996);
- NY (Sibley, 1926, Betten, 1934; Miller, 1965, not reliable, Flint, pers comm; Nimmo, 1987; Moulton & Stewart, 1996; Myers, Kondratieff, Mihuc, & Ruitter, 2011; Tozer, 2018);
- OK (Betten, 1934; Nimmo, 1987; Bowles & Mathis, 1992; Moulton & Stewart, 1996);
- ON (Nimmo, 1987);
- PA (Ross, 1944; Miller, 1965, not reliable, Flint, pers comm; Gordon, 1974; Nimmo, 1987; Masteller & Flint, 1992; Moulton & Stewart, 1996);
- QC (Ross, 1944; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1975; Roy & Harper, 1979; Nimmo, 1987; Moulton & Stewart, 1996);
- SC (Gordon, 1974; Nimmo, 1987; Moulton & Stewart, 1996);
- TN (Etnier & Schuster, 1979; Nimmo, 1987; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998);
- TX (Edwards, 1973; Nimmo, 1987; Moulton & Stewart, 1996; unconfirmed or dubious according to Moulton & Stewart, 1997);
- VA (Banks, 1904; Gordon, 1974; Parker & Voshell, 1981; Nimmo, 1987; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004; Flint, 2011);
- WI (Ross, 1944; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Nimmo, 1987; Hilsenhoff, 1995; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- WV (Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016).
- Cheumatopsyche speciosa (Banks, 1904), Hydropsyche, MD;  
 male genitalia (Miller, 1965, not reliable, Flint, pers comm);  
 male & female genitalia (Gordon, 1974);  
 male & female tibiae & tarsi (Deutsch, 1985);  
 male & female genitalia (Nimmo, 1987);  
 male genitalia (Houghton, 2012);
- AB (Nimmo, 1987; Moulton & Stewart, 1996);
- AR (Ross, 1944; Unzicker, Aggus, & Warren, 1970; Nimmo, 1987; Bowles & Mathis, 1989; Moulton & Stewart, 1996);

CO (Ruiter, 1990; Moulton & Stewart, 1996);  
 CT (Miller, 1965, not reliable, Flint, pers comm; Moulton & Stewart, 1996);  
 DE (Lake, 1984; Moulton & Stewart, 1996);  
 IA (Blinn, Ruiter, & Flint, 2009;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1944; Nimmo, 1987; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1944; Waltz & McCafferty, 1983; Nimmo, 1987; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Ross, 1944; Resh, 1975; Haag, Resh, & Neff, 1984; Nimmo, 1987; Moulton & Stewart, 1996;  
     Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LB (Nimmo, 1987; Moulton & Stewart, 1996);  
 MB (Flannagan & Flannagan, 1982; Nimmo, 1987;  
     Moulton & Stewart, 1996; Zhou et al., 2011);  
 MD (Banks, 1904; Gordon, 1974; Nimmo, 1987; Moulton & Stewart, 1996);  
 MI (Davis, Hudson, & Armitage, 1991;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Denning, 1943; Etnier, 1965; Gordon, 1974; Nimmo, 1987; MacLean, 1995;  
     Moulton & Stewart, 1996; Monson, 1997;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton & Holzenthal, 2010;  
     Zhou et al., 2011; Houghton, 2012; Houghton & Lardner, 2020;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Ross, 1944; Gordon, 1974; Nimmo, 1987; Mathis & Bowles, 1992;  
     Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Denning, 1943; Roemhild, 1982; Nimmo, 1987;  
     Moulton & Stewart, 1996);  
 NC (Banks, 1908; Nimmo, 1987; Moulton & Stewart, 1996;  
     Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 ND (Harris, Lago, & Carlson, 1980; Nimmo, 1987; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NY (Betten, 1934; Miller, 1965, not reliable, Flint, pers comm;  
     Nimmo, 1987; Moulton & Stewart, 1996; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Ross, 1944; Petersen & Foote, 1980; Huryn & Foote, 1983; Nimmo, 1987;  
     Garono & MacLean, 1988; Moulton & Stewart, 1996; Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Ross, 1944; Nimmo, 1987; Bowles & Mathis, 1992; Moulton & Stewart, 1996);  
 ON (Nimmo, 1987; Harper, 1989; Moulton & Stewart, 1996);  
 PA (Betten, 1934; Miller, 1965, not reliable, Flint, pers comm;  
     Gordon, 1974; Deutsch, 1984; Nimmo, 1987;  
     Masteller & Flint, 1992; Moulton & Stewart, 1996);  
 QC (Nimmo, 1966; Nimmo, 1987; Corbet, 1966;  
     Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1975;  
     Roy & Harper, 1979; Harper, 1989; Moulton & Stewart, 1996);  
 SK (Neave, 1934; Nimmo, 1987; Moulton & Stewart, 1996);  
 TN (Ross, 1944; Edwards, 1966; Etnier & Schuster, 1979;  
     Nimmo, 1987; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Gordon, 1974; Nimmo, 1987; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004);  
 WI (Ross, 1944; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
     Nimmo, 1987; Hilsenhoff, 1995; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).  
 Cheumatopsyche vannotei Gordon, 1974, PA  
 male genitalia (Nimmo, 1987);

- PA (Gordon, 1974; Nimmo, 1987; Masteller & Flint, 1992).
- Cheumatopsyche virginica* Denning, 1949, VA;  
 male & female genitalia (Gordon, 1974);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris, 1987; Lago & Harris, 1987;  
 Harris, O'Neil, & Lago, 1991; Harris & O'Neil, 2015);  
 DE (Lake, 1984);  
 FL (Gordon, 1974; Harris, Lago, & Scheiring, 1982; Gordon, 1984;  
 Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004;  
 Denson, Rasmussen, & Harris, 2016);  
 GA (Gordon, 1974);  
 LA (Lago, Holzenthal, & Harris, 1982);  
 MS (Lago, Holzenthal, & Harris, 1982);  
 NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NJ (Gordon, 1974);  
 SC (Gordon, 1974; Morse, Chapin, Herlong & Harvey, 1980);  
 VA (Denning, 1949; Parker & Voshell, 1981; Flint, Hoffman, & Parker, 2004).
- Cheumatopsyche wabasha* Denning, 1947, MN;  
 male genitalia (Gordon, 1974);  
 male genitalia (Nimmo, 1987);  
 male genitalia (Houghton, 2012);  
 CO (Herrmann, Ruiter, & Unzicker, 1986);  
 DE (Lake, 1984);  
 MN (Denning, 1947; Etnier, 1965; Nimmo, 1987;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OH (Huryn & Foote, 1981; Huryn & Foote, 1983; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OR (Gordon, 1974; Anderson, 1976; Nimmo, 1987);  
 WI (Hilsenhoff, 1975; not in WI, Hilsenhoff, 1981).
- Cheumatopsyche wrighti* Ross, 1947, TN;  
 male genitalia (Gordon, 1974);  
 male genitalia (Nimmo, 1987);  
 MA (Neves, 1979; Nimmo, 1987);  
 ME (Gordon, 1974; Nimmo, 1987);  
 NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NS (Nimmo, 1987);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 PA (Masteller & Flint, 1992);  
 PE (Nimmo, 1987);  
 TN (Ross, 1947; Nimmo, 1987; Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Gordon, 1974; Parker & Voshell, 1981; Nimmo, 1987; Flint, Hoffman, & Parker, 2004);  
 WV (Tarter, 1990; Tarter & Floyd, 2016).
- Diplectrona californica* Banks, 1914, CA  
*Diplectrona margarita* Denning, 1965, CA (Flint, 1966);  
 male genitalia (Flint, 1966);  
 CA (Banks, 1914; Wiggins, 1977; Resh & Mendez, 2022).
- Diplectrona marianae* Reeves, 1999, in Reeves & Paysen, GA;  
 photos of larval head capsules, representing a COI haplotype group  
 (Harvey, Geraci, Robinson, Morse, Kjer, & Zhou, 2012);  
 GA (Reeves & Paysen, 1999);  
 TN (Harvey, Geraci, Robinson, Morse, Kjer, & Zhou, 2012).
- Diplectrona metaqui* Ross, 1970, IL;  
 larval head, mandibles (Edwards, 1966);

male and female heads (Ross, 1970);  
 net (Wallace & Malas, 1976);  
 larva (Wiggins, 1977);  
 photos of larval head capsules, representing 2 different COI haplotype groups  
 (Harvey, Geraci, Robinson, Morse, Kjer, & Zhou, 2012);  
 AL (Zhou et al., 2011; Harvey, Geraci, Robinson, Morse, Kjer, & Zhou, 2012);  
 CT (Bilger, 1986);  
 GA (Wiggins, 1977; Phillippi & Schuster, 1987);  
 IL (Ross, 1970; Wiggins, 1977;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Wiggins, 1977; Waltz & McCafferty, 1983; Phillippi & Schuster, 1987; Zhou et al., 2011;  
 Harvey, Geraci, Robinson, Morse, Kjer, & Zhou, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Wiggins, 1977; Phillippi & Schuster, 1987; Zhou et al., 2011;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Harvey, Geraci, Robinson, Morse, Kjer, & Zhou, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Mathis & Bowles, 1992;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Phillippi & Schuster, 1987; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010;  
 Zhou et al., 2011; Harvey, Geraci, Robinson, Morse, Kjer, & Zhou, 2012);  
 OH (Huryn & Foote, 1981; Huryn & Foote, 1983; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 PA (Masteller & Flint, 1992);  
 SC (Floyd & Morse, 1993; Zhou et al., 2011;  
 Harvey, Geraci, Robinson, Morse, Kjer, & Zhou, 2012);  
 TN (Wiggins, 1977; Etnier & Schuster, 1979; Etnier, Baxter, Fraley, & Parker, 1998;  
 DeWalt, Jacobus, & McCafferty, 2007;  
 Zhou et al., 2011; Harvey, Geraci, Robinson, Morse, Kjer, & Zhou, 2012);  
 VA (Parker & Voshell, 1981; Flint, Hoffman, & Parker, 2004);  
 WV (Zhou et al., 2011; Harvey, Geraci, Robinson, Morse, Kjer, & Zhou, 2012;  
 Tarter & Floyd, 2016).  
*Diplectrona modesta* Banks, 1908, MA;  
 larval head, male genitalia (Ross, 1944);  
 male and female heads (Ross, 1970);  
 net (Wallace & Malas, 1976);  
 photo of net (Wallace, Webster, & Woodall, 1977);  
 larva (Wiggins, 1977, "prob");  
 adult antenna, wings, male & female sternum V glands, male &  
 female genitalia (Schmid, 1980);  
 spermatozoon (Friedländer & Morse, 1982);  
 wings, male & female genitalia (Nimmo, 1987);  
 male genitalia (Houghton, 2012);  
 photos of larval head capsules, representing 4 different COI haplotype groups  
 (Harvey, Geraci, Robinson, Morse, Kjer, & Zhou, 2012);  
 GA/NC (Wallace, Webster, & Woodall, 1977);  
 GA/NC/SC (Gordon & Wallace, 1975);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 widespread throughout the east (Hamilton & Schuster, 1979);  
 AL (Harris et al, 1983; Harris, Lago, & O'Neil, 1984;  
 Harris, 1987; Lago & Harris, 1987;  
 Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991;  
 Moulton & Stewart, 1996; Zhou et al., 2011;  
 Harvey, Geraci, Robinson, Morse, Kjer, & Zhou, 2012; Harris & O'Neil, 2015);  
 AR (Ross, 1944; Unzicker, Aggus & Warren, 1970; Nimmo, 1987; Bowles & Mathis, 1989);

Moulton & Stewart, 1996; Bowles, 2020; Bowles, Cheri, Usrey, & Williams, 2020);  
 CT (Bilger, 1986; Nelson & Downs, 1995; Moulton & Stewart, 1996);  
 DE (Lake, 1984; Moulton & Stewart, 1996);  
 FL (Ross, 1944; Schmid, 1980; Harris, Lago, & Scheiring, 1982;  
     Scheiring, 1985; Nimmo, 1987; Pescador, Rasmussen, & Harris, 1995, 2004;  
     Moulton & Stewart, 1996; Rasmussen, 2004; Denson, Rasmussen, & Harris, 2016);  
 GA (Ross, 1944; Benke & Wallace, 1980; Nimmo, 1987;  
     Moulton & Stewart, 1996; Harvey, Geraci, Robinson, Morse, Kjer, & Zhou, 2012);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1944; Nimmo, 1987; Moulton & Stewart, 1996; Zhou et al., 2011;  
     Harvey, Geraci, Robinson, Morse, Kjer, & Zhou, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1944; Waltz & McCafferty, 1983; Nimmo, 1987;  
     Moulton & Stewart, 1996; Zhou et al., 2011;  
     Harvey, Geraci, Robinson, Morse, Kjer, & Zhou, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton & Schuster, 1979; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Nimmo, 1987; Phillippi & Schuster, 1987;  
     Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006; Zhou et al., 2011;  
     Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Harvey, Geraci, Robinson, Morse, Kjer, & Zhou, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Banks, 1908; Neves, 1979; Bilger, 1986; Nimmo, 1987;  
     Moulton & Stewart, 1996; Whitmore 2008);  
 MD (Zhou et al., 2011; Harvey, Geraci, Robinson, Morse, Kjer, & Zhou, 2012);  
 ME (Procter, 1946; Mingo & Gibbs, 1980; Bilger, 1986;  
     Nimmo, 1987; Moulton & Stewart, 1996);  
 MI (Leonard and Leonard, 1949; Nimmo, 1987;  
     Moulton & Stewart, 1996; Houghton, Brandin, & Brakel, 2011;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
     Houghton & Lardner, 2020;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Bowles, 2020;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Lago, Holzenthal, & Harris, 1982; Moulton & Stewart, 1996);  
 NC (Brimley, 1938; Woodall & Wallace, 1972; Ross & Wallace, 1982;  
     Penrose, Lenat, & Eagleson, 1982; Lenat, 1983;  
     Armitage & Tennessen, 1984; Nimmo, 1987;  
     Huryn & Wallace, 1987; Huryn & Wallace, 1988;  
     Morse, Hamilton, & Hoffman, 1989; Moulton & Stewart, 1996;  
     Floyd, Morse, & Harris, 1997; DeWalt, Jacobus, & McCafferty, 2007;  
     Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011;  
     Harvey, Geraci, Robinson, Morse, Kjer, & Zhou, 2012);  
 NF (Marshall & Larson, 1982; Moulton & Stewart, 1996);  
 NH (Ross, 1944; Morse and Blickle, 1953; Nimmo, 1987;  
     Moulton & Stewart, 1996);  
 NJ (Mendez, Spagna, Holzenthal, & Houghton, 2019);  
 NS (Nimmo, 1987);  
 NY (Sibley, 1926; McCabe, 1986; Nimmo, 1987;  
     Moulton & Stewart, 1996; Myers, Kondratieff, Mihuc, & Ruitter, 2011);  
 OH (McElravy, Arsuffi, & Foote, 1977; Petersen & Foote, 1980;  
     Huryn & Foote, 1983; Nimmo, 1987; Garono & MacLean, 1988);



- Moulton & Stewart, 1996; Zhou et al., 2011; Armitage et al., 2011;  
 Harvey, Geraci, Robinson, Morse, Kjer, & Zhou, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- OK (Ross, 1944; Wiggins, 1977; Hamilton & Schuster, 1979;  
 Nimmo, 1987; Bowles & Mathis, 1992;  
 Moulton & Stewart, 1996);
- ON (Ricker, 1934; Sprules, 1947; Schmid, 1980;  
 Singh, Smith, & Harrison, 1984a; Nimmo, 1987;  
 Williams & Williams, 1987;  
 Williams, Tavares, & Bryant, 1987; Williams, 1991;  
 Moulton & Stewart, 1996; Zhou et al., 2011;  
 Harvey, Geraci, Robinson, Morse, Kjer, & Zhou, 2012);
- PA (Ross, 1941; Masteller & Flint, 1980; Masteller & Flint, 1984;  
 Swegman, Walker, & Sykora, 1981; Nimmo, 1987;  
 Masteller & Flint, 1992; Moulton & Stewart, 1996; Zhou et al., 2011;  
 Harvey, Geraci, Robinson, Morse, Kjer, & Zhou, 2012);
- QC (Roy & Harper, 1979; Schmid, 1980; Nimmo, 1987;  
 Moulton & Stewart, 1996; Zhou et al., 2011;  
 Harvey, Geraci, Robinson, Morse, Kjer, & Zhou, 2012);
- SC (Ross, 1944; Morse, Chapin, Herlong, & Harvey, 1980;  
 Friedländer & Morse, 1982; Nimmo, 1987;  
 Morse, Hamilton, & Hoffman, 1989; Floyd & Morse, 1993;  
 Moulton & Stewart, 1996; Floyd, Morse, & Harris, 1997; Zhou et al., 2011;  
 Harvey, Geraci, Robinson, Morse, Kjer, & Zhou, 2012);
- SD (Wiggins, 1977; Hamilton & Schuster, 1979; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- TN (Ross, 1944; Edwards, 1966; Etnier & Schuster, 1979;  
 Nimmo, 1987; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998;  
 Hamilton, Hamilton, & Lyle, 2002; DeWalt & Heinold, 2005;  
 Etnier, Bauer, & Zirkle, 2006; Zhou et al., 2011;  
 Harvey, Geraci, Robinson, Morse, Kjer, & Zhou, 2012);
- TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);
- VA (Parker & Voshell, 1981; Nimmo, 1987; Moulton & Stewart, 1996;  
 Flint, Hoffman, & Parker, 2004; Zhou et al., 2011; Flint, 2011;  
 Harvey, Geraci, Robinson, Morse, Kjer, & Zhou, 2012);
- VT (Wimmer, 1979; Bilger, 1986; Moulton & Stewart, 1996);
- WI (Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Shapas & Hilsenhoff, 1976;  
 Karl & Hilsenhoff, 1979; Steven & Hilsenhoff, 1984; Schmude & Hilsenhoff, 1986;  
 Nimmo, 1987; Hilsenhoff, 1995; Hilsenhoff, 1996; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- WV (Ross, 1944; Tarter & Hill, 1979; Nimmo, 1987; Tarter, 1990;  
 Griffith & Perry, 1992; Griffith, Barrows, and Perry, 1998;  
 Moulton & Stewart, 1996; Zhou et al., 2011;  
 Harvey, Geraci, Robinson, Morse, Kjer, & Zhou, 2012; Tarter & Floyd, 2016).
- Diplectrona rossi Morse, 1990, in Morse & Barr, LA  
 LA (Morse & Barr, 1990).
- Homoplectra alseae Ross, 1938, OR;  
 male wings (Weaver, 1985);  
 OR (Ross, 1938; Anderson, 1976; Weaver, 1985).
- Homoplectra doringa (Milne, 1936), Diplectrona, NH;  
 Aphropsyche aprilis Ross, 1941, TN (Flint, 1966);  
 female genitalia (Weaver, 1985);  
 wings, male & female genitalia (Nimmo, 1987);  
 NC/SC (Unzicker, Resh, & Morse, 1982);

- AL (Lago & Harris, 1987; Harris, 1987; Harris, 1990;  
Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Zhou et al., 2011);
- AR (Bowles & Mathis, 1989; Moulton & Stewart, 1996; Etnier, 2010;  
Bowles, Cheri, Usrey, & Williams, 2020);
- IL (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- IN (Waltz & McCafferty, 1983; Weaver, 1985; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- KY (Resh, 1975; Weaver, 1985; Nimmo, 1987; Moulton & Stewart, 1996;  
Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MA (Neves, 1979; Weaver, 1985; Nimmo, 1987;  
Moulton & Stewart, 1996);
- NC (Milne, 1936; Wiggins, 1977; Weaver, 1985; Nimmo, 1987;  
Moulton & Stewart, 1996; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010;  
Zhou et al., 2011);
- NH (Milne, 1936; Wiggins, 1977; Weaver, 1985; Nimmo, 1987;  
Moulton & Stewart, 1996);
- NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);
- OH (Bolton, Macy, DeWalt, & Jacobus, 2019;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- TN (Wiggins, 1977; Etnier & Schuster, 1979; Weaver, 1985;  
Nimmo, 1987; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998;  
Zhou et al., 2011);
- VA (Parker & Voshell, 1981; Weaver, 1985; Nimmo, 1987;  
Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004);
- WV (Huryn, 1989; Ruiter, 2000; Zhou et al., 2011; Tarter & Floyd, 2016).
- Homoplectra flinti* Weaver, 1985, NC;  
pupa, retreat (Huryn, 1989);  
NC (Weaver, 1985; Huryn, 1989; Morse et al, 1997;  
Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);  
TN (Morse et al, 1997; Etnier, Baxter, Fraley, & Parker, 1998 [later determined to be *Diplectrona marianae* by Harvey, Geraci, Robinson, Morse, Kjer, & Zhou, 2012].
- Homoplectra luchia* Denning, 1966, OR;  
OR (Denning, 1966; Anderson, 1976;  
Anderson, Cooper, & Denning, 1982; Weaver, 1985).
- Homoplectra monticola* (Flint, 1965), Aphropsyche, VA;  
larva, pupa (Weaver, Swegman, & Sykora, 1979);  
female genitalia (Weaver, 1985);  
NC (Huryn, 1989; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
PA (Weaver, Swegman, & Sykora, 1979; Weaver, 1985; Huryn, 1989;  
Masteller & Flint, 1992);  
VA (Flint, 1965; Wiggins, 1977; Weaver, 1985; Flint, Hoffman, & Parker, 2004);  
WV (Tarter, 1990; Griffith & Perry, 1992;  
Griffith, Barrows, and Perry, 1998; Tarter & Floyd, 2016).
- Homoplectra nigripennis* (Banks, 1911), *Diplectrona*, CA;  
CA (Banks, 1911; Weaver, 1985; Resh & Mendez, 2022).
- Homoplectra norada* Denning, 1975, CA;  
CA (Denning, 1975; Weaver, 1985; Resh & Mendez, 2022).
- Homoplectra oaklandensis* (Ling, 1938), *Diplectrona*, CA;  
CA (Ling, 1938; Weaver, 1985; McElravy & Resh, 1987; Resh & Mendez, 2022).
- Homoplectra schuhi* Denning, 1965, OR;  
OR (Denning, 1965; Anderson, 1976; Weaver, 1985).
- Homoplectra shasta* Denning, 1949, CA;  
CA (Denning, 1949; Weaver, 1985; Resh & Mendez, 2022).
- Homoplectra sierra* Ruiter, 2003, CA;

- CA (Ruiter, 2003; Resh & Mendez, 2022).
- Homoplectra spora Denning, 1952, CA;  
CA (Denning, 1952; Weaver, 1985; Resh & Mendez, 2022).
- Hydropsyche abella Denning, 1952, OR; [probably a synonym of *Hydropsyche amblis*, Flint pers comm];  
CA (Resh & Mendez, 2022);  
NV (Ruiter, Baumann, & Flint, 2014);  
OR (Denning, 1952).
- Hydropsyche aenigma Schefter, Wiggins, & Unzicker, 1986, NY;  
larval head (Schefter & Wiggins, 1986);  
NY (Schefter, Wiggins, & Unzicker, 1986; Schefter & Wiggins, 1986;  
Nimmo, 1987; Myers, Kondratieff, Mihuc, & Ruiter, 2011).
- Hydropsyche aerata Ross, 1938, IL;  
larval head (Schuster & Etnier, 1978);  
male & female genitalia (Nimmo, 1987);  
male head, male genitalia & sternum V (Korecki & Ruiter, 2009);  
IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
IL (Ross, 1938; Schuster & Etnier, 1978; Nimmo, 1987;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
IN (Ross, 1938; Schuster & Etnier, 1978; Waltz & McCafferty, 1983; Nimmo, 1987;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
KY (Houp, 1999; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MI (Ross, 1944; Schuster & Etnier, 1978; Nimmo, 1987;  
Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MO (Harris & Lawrence, 1978;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
OH (Huryn & Foote, 1983; Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
VT (Bilger, 1986)  
WV (Tarter & Floyd, 2016).
- Hydropsyche alabama Lago & Harris, 1991, AL;  
male head, male genitalia & sternum V (Korecki & Ruiter, 2009);  
AL (Harris, O'Neil, & Lago, 1991; Morse et al, 1997; Prather & Morse, 2001)  
FL (Pescador, Rasmussen, & Harris, 2004; Denson, Rasmussen, & Harris, 2016).
- Hydropsyche alhedra Ross, 1939, NC;  
Hydropsyche racona Denning, 1965, WY  
(Schefter, Wiggins, & Unzicker, 1986);  
Hydropsyche riola Denning, 1942, MN  
(Schefter, Wiggins, & Unzicker, 1986);  
larval head (Schuster & Etnier, 1978;  
Schmude & Hilsenhoff, 1986);  
male & female genitalia (Schefter, Wiggins, & Unzicker, 1986);  
photos of larval labrum pectinate setae, frontoclypeal brushlike  
setae, abdominal scale hairs; larval head, pronotum,  
hindtrochanter and femur, abdominal setae, sternum IX, anal  
proleg (Schefter & Wiggins, 1986);  
wings, male & female genitalia (Nimmo, 1987);  
male genitalia (Houghton, 2012);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
AB (Nimmo, 1987; Zhou et al., 2011);  
AK (Schefter & Wiggins, 1986; Nimmo, 1987);  
BC (Ross and Spencer, 1952; Schuster & Etnier, 1978;  
Schefter, Wiggins, & Unzicker, 1986; Nimmo, 1987);

CO (Ruiter, 1990);  
 CT (Bilger, 1986);  
 IA (Blinn, Ruiter, & Flint, 2009;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022)  
 MA (Neves, 1979; Nimmo, 1987);  
 ME (Schefter, Wiggins, & Unzicker, 1986);  
 MB (Cobb, Flannagan, & Friesen, 1984; Schefter, Wiggins, & Unzicker, 1986;  
     Schefter & Wiggins, 1986; Nimmo, 1987;  
     Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Zhou et al., 2011;  
     Ruiter, Boyle, & Zhou, 2013);  
 MI (Yanoviak & McCafferty, 1996; DeWalt & South, 2015; Houghton, 2016;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton, 2022;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Denning, 1942; Etnier, 1965; Schuster & Etnier, 1978;  
     Mackay, 1986; Schefter, Wiggins, & Unzicker, 1986;  
     Schefter & Wiggins, 1986; Waters, 1987; Nimmo, 1987; Monson, 1997;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton & Holzenthal, 2010;  
     Zhou et al., 2011; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Ross, 1939; Schuster & Etnier, 1978;  
     Armitage & Tennessen, 1984;  
     Schefter, Wiggins, & Unzicker, 1986;  
     Schefter & Wiggins, 1986; Nimmo, 1987;  
     Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Park, 2018);  
 ND (Harris, Lago, & Carlson, 1980; Schefter, Wiggins, & Unzicker, 1986;  
     Schefter & Wiggins, 1986; Nimmo, 1987;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011; Tozer, 2018);  
 ON (Schefter, Wiggins, & Unzicker, 1986; Schefter & Wiggins, 1986;  
     Nimmo, 1987; Zhou et al., 2011);  
 PA (Masteller & Flint, 1979; Schefter, Wiggins, & Unzicker, 1986;  
     Nimmo, 1987; Masteller & Flint, 1992);  
 QC (Roy & Harper, 1979; Schefter, Wiggins, & Unzicker, 1986;  
     Nimmo, 1987; Harper, 1989);  
 SD (Schefter, Wiggins, & Unzicker, 1986;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 SK (Schefter, Wiggins, & Unzicker, 1986; Schefter & Wiggins, 1986;  
     Nimmo, 1987);  
 TN (Schuster & Etnier, 1978; Etnier & Schuster, 1979;  
     Schefter, Wiggins, & Unzicker, 1986;  
     Schefter & Wiggins, 1986; Nimmo, 1987; Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Parker & Voshell, 1981; Schefter, Wiggins, & Unzicker, 1986;  
     Nimmo, 1987; Flint, Hoffman, & Parker, 2004; Zhou et al., 2011);  
 VT (Bilger, 1986);  
 WI (Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Schuster & Etnier, 1978;  
     Steven & Hilsenhoff, 1984; Schmude & Hilsenhoff, 1986; Nimmo, 1987;  
     Hilsenhoff, 1995; Hilsenhoff, 1996; Zhou et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Tarter, 1990; Tarter & Floyd, 2016);  
 WY (Denning, 1965; Ruiter & Lavigne, 1985;  
     Schefter, Wiggins, & Unzicker, 1986);  
 YT (Schefter, Wiggins, & Unzicker, 1986);

Schefter & Wiggins, 1986; Wiggins & Parker, 1997).

Hydropsyche alternans (Walker, 1852), Philopotamus, ON;  
 Philopotamus indecisus Walker, 1852, Canada, NS  
 (Betten & Mosely, 1940);  
 Hydropsyche slossonae var recurvata Banks, 1914, ON (Milne, 1936,  
 Hydropsyche recurvata is synonym of Hydropsyche slossonae;  
 Nimmo, 1981);  
 Hydropsyche codona Betten, 1934, NY (Milne, 1936, as synonym of H  
 slossonae; Ross, 1938, as synonym of H recurvata);  
 larval head (Smith & Lehmkuhl, 1980a);  
 adult maxillary palp, foreclaws, male & female wings, male &  
 female sterna V, male & female genitalia (Schmid, 1980);  
 female genitalia (Nimmo, 1981);  
 male genitalia (Marshall & Larson, 1982);  
 male & female genitalia (Schefter, Wiggins, & Unzicker, 1986);  
 larval head, midtrochanter & femur, male genitalia  
 (Schefter & Wiggins, 1986);  
 larval frontoclypeus (Williams, 1987);  
 male & female genitalia (Nimmo, 1987);  
 male genitalia (Houghton, 2012);  
 photos of larva, head, pronotum, procoxa (Ruiter, Boyle, & Zhou, 2013);  
 photos of egg, larva, larval head, capture net, pre-pupa, adult male & female, mesothoracic legs  
 (Miess, Chrisekos, & Strand, 2022).

Canada (Walker, 1852);  
 AB (Sykora, Swegman, & Weaver, 1981; Schefter & Wiggins, 1986; Nimmo, 1987);  
 AK (Schefter & Wiggins, 1986; Nimmo, 1987);  
 BC (Nimmo & Scudder, 1983; Schefter & Wiggins, 1986; Nimmo, 1987);  
 CT (Britton, 1920; Sykora, Swegman, & Weaver, 1981);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1944; Schuster & Etnier, 1978; Sykora, Swegman, & Weaver, 1981; Nimmo, 1987;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Neves, 1979);  
 MB (Neave, 1934; Denning, 1943; Flannagan & Lawler, 1972;  
 Flannagan, 1978; Schuster & Etnier, 1978;  
 Lehmkyhl & Kerst, 1979; Flannagan & Cobb, 1981;  
 Sykora, Swegman, & Weaver, 1981; Flannagan & Flannagan, 1982;  
 Cobb, Flannagan, & Friesen, 1984; Schefter & Wiggins, 1986;  
 Nimmo, 1987; Williams, 1987; Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010;  
 Ruiter, Boyle, & Zhou, 2013; Chatila-Amos, 2021);  
 ME (Blickle & Morse, 1966; Sykora, Swegman & Weaver, 1981);  
 MI (Ross, 1944; Schuster & Etnier, 1978;  
 Sykora, Swegman & Weaver, 1981; Nimmo, 1987;  
 Davis, Hudson, & Armitage, 1991; DeWalt & South, 2015;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022  
 Miess, Chrisekos, & Strand, 2022);  
 MN (Denning, 1943; Etnier, 1965; Schuster & Etnier, 1978;  
 Sykora, Swegman, & Weaver, 1981; Mackay, 1986;  
 Schefter & Wiggins, 1986; Nimmo, 1987; MacLean, 1995; Monson, 1997;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Sykora, Swegman, & Weaver, 1981; Marshall & Larson, 1982;  
 Nimmo, 1987);

NH (Morse & Blickle, 1953);  
 NJ (Smith, 1910);  
 NS (Walker, 1852; Sykora, Swegman, & Weaver, 1981);  
 NT (Nimmo, 1986; Nimmo, 1987; Cordero, Sánchez-Ramírez, & Currie, 2017);  
 NY (Sibley, 1926; Betten, 1934, Schuster & Etnier, 1978;  
     Sykora, Swegman, & Weaver, 1981; Schefter & Wiggins, 1986;  
     Bilger, 1986; Nimmo, 1987; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Marshall, 1939; Schuster & Etnier, 1978; Huryn & Foote, 1983; Nimmo, 1987;  
     Garono & MacLean, 1988; Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Walker, 1852; Banks, 1914; Schuster & Etnier, 1978;  
     Sykora, Swegman & Weaver, 1981; Schefter & Wiggins, 1986; Nimmo, 1987;  
     Harper, 1989);  
 OR (Anderson, 1976);  
 PA (Masteller & Flint, 1979; Nimmo, 1987; Masteller & Flint, 1992);  
 QC (Ross, 1944; Corbet, 1966; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1975;  
     Schuster & Etnier, 1978; Roy & Harper, 1979; Sykora, Swegman & Weaver, 1981;  
     Schefter & Wiggins, 1986; Nimmo, 1987; Harper, 1989;  
     Cordero, Sánchez-Ramírez, & Currie, 2017);  
 SK (Milne, 1943; Schuster & Etnier, 1978; Smith & Lehmkuhl, 1980a;  
     Sykora, Swegman & Weaver, 1981; Schefter & Wiggins, 1986;  
     Nimmo, 1987);  
 VT (Wimmer, 1979);  
 WI (Denning, 1943; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
     Schuster & Etnier, 1978; Sykora, Swegman, & Weaver, 1981;  
     Steven & Hilsenhoff, 1984; Schefter & Wiggins, 1986;  
     Schmude & Hilsenhoff, 1986; Nimmo, 1987; Hilsenhoff, 1995;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 YT (Nimmo & Wickstrom, 1984; Schefter & Wiggins, 1986;  
     Nimmo, 1987; Wiggins & Parker, 1997).  
*Hydropsyche alvata* Denning, 1949, MS;  
     male genitalia (Flint, Voshell, & Parker 1979);  
     male genitalia (Nimmo, 1987);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris, Lago, & O'Neil, 1984; Harris, 1987;  
     Lago & Harris, 1987; Harris, O'Neil, & Lago, 1991;  
     Moulton & Stewart, 1996; Hicks & Haynes, 2000b);  
 AR (Unzicker, Aggus, & Warren, 1970; Nimmo, 1987; Bowles & Mathis, 1989;  
     Moulton & Stewart, 1996; Etnier, 2010; Bowles, Cheri, Usrey, & Williams, 2020);  
 FL (Gordon, 1984; Pescador, Rasmussen, & Harris, 1995, 2004;  
     Moulton & Stewart, 1996 Moulton & Stewart, 1996);  
 GA (Gordon & Wallace, 1975; Moulton & Stewart, 1996);  
 IA (Blinn, Ruiter, & Flint, 2009);  
 IL (Denning, 1949; Nimmo, 1987; Moulton & Stewart, 1996);  
 IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012);  
 LA (Lago, Holzenthal, & Harris, 1982; Moulton & Stewart, 1996);  
 MI (Denning, 1949; Nimmo, 1987; Moulton & Stewart, 1996);  
 MO (Moulton & Stewart, 1996);  
 MS (Denning, 1949; Lago, Holzenthal, & Harris, 1982; Nimmo, 1987;  
     Moulton & Stewart, 1996);  
 NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 OK (Bowles & Mathis, 1992; Moulton & Stewart, 1996);  
 VA (Flint, Voshell, & Parker, 1979; Parker & Voshell, 1981;  
     Nimmo, 1987; Hoffman & Parker, 1997);

- Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004).
- Hydropsyche *amblis* Ross, 1938, OR;  
 Hydropsyche *abella* Denning, 1952, OR (probably a synonym, Flint, pers comm);  
 larval head, male genitalia (Scheffer & Wiggins, 1986);  
 male & female genitalia (Nimmo, 1987);  
 AK (Vineyard, 1982; Scheffer & Wiggins, 1986);  
 BC (Ross and Spencer, 1952; Scheffer & Wiggins, 1986; Nimmo, 1987);  
 CA (Erman, 1989; Resh & Mendez, 2022);  
 OR (Ross, 1938; Denning, 1952; Anderson & Wold, 1972;  
 Anderson, 1976; Scheffer & Wiggins, 1986; Nimmo, 1987;  
 Anderson & Hansen, 1987);  
 WA (Smith, 1981; Scheffer & Wiggins, 1986; Nimmo, 1987;  
 Anderson & Wisseman, 1987; Blinn & Ruiters, 2013);  
 YT (Scheffer & Wiggins, 1986; Wiggins & Parker, 1997).
- Hydropsyche *andersoni* Denning, 1983, OR;  
 OR (Denning, 1983; Anderson, Cooper, & Denning, 1982).
- Hydropsyche *arinale* Ross, 1938, IL;  
 larval head (Schuster & Etnier, 1978);  
 male & female genitalia (Nimmo, 1987);  
 AR (Ross, 1944; Unzicker, Aggus, & Warren, 1970; Schuster & Etnier, 1978;  
 Hamilton & Schuster, 1979; Nimmo, 1987; Bowles & Mathis, 1989;  
 Moulton & Stewart, 1996; Bowles, Cheri, Usrey, & Williams, 2020);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1938; Hamilton & Schuster, 1979; Nimmo, 1987; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Ross, 1944; Schuster & Etnier, 1978; Hamilton & Schuster, 1979; Nimmo, 1987;  
 Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiters, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Ross, 1944; Schuster & Etnier, 1978; Hamilton & Schuster, 1979; Nimmo, 1987;  
 Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Schuster & Etnier, 1978; Hamilton & Schuster, 1979;  
 Nimmo, 1987; Bowles & Mathis, 1992;  
 Moulton & Stewart, 1996);  
 ON (Nimmo, 1987; Moulton & Stewart, 1996);  
 WI (Ross, 1944; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Schuster & Etnier, 1978;  
 Hamilton & Schuster, 1979; Schmude & Hilsenhoff, 1986; Nimmo, 1987;  
 Hilsenhoff, 1995; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Hydropsyche *auricolor* Ulmer, 1905, Mexico;  
 Hydropsyche *solex* Ross, 1944, TX (Bueno-Soria & Flint, 1978);  
 arid western United States (Flint, 1967);  
 AZ (Moulton, Stewart, & Young, 1994; Houghton, 2001; Blinn & Ruiters, 2006;  
 Blinn & Ruiters, 2009a; Blinn & Ruiters, 2009b; Blinn, Ruiters, & Haden, 2012);  
 NM (Ruiters, 1996; Blinn & Ruiters, 2009a);  
 TX (Ross, 1944; Bueno-Soria & Flint, 1978; Moulton & Stewart, 1997);  
 Mexico (Ulmer, 1905; Flint, 1967).
- Hydropsyche *bassi* Flint, Voshell, & Parker, 1979, VA;  
 TN (Schuster & Etnier, 1978; Schuster & Etnier, 1979;  
 Flint, Voshell & Parker, 1979; Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Flint, Voshell, & Parker, 1979; Parker & Voshell, 1981; Flint, Hoffman, & Parker, 2004).

Hydropsyche betteni Ross, 1938, IL;  
     male & female genitalia (Ross, 1944);  
     internal female genitalia (Unzicker, 1968);  
     larva and larval head (Schuster & Etnier, 1978);  
     larval head (Mackay, 1978);  
     female maxillary palp, protibia, hindwing, mesonotum, male  
         genitalia (Marshall & Larson, 1982);  
     pupa (Rutherford, 1985);  
     photo of larval abdominal scale hairs and minute spines  
         (Scheffer & Wiggins, 1986);  
     male & female genitalia (Nimmo, 1987);  
     male genitalia & photo of adult (Houghton, 2012);  
     GA/NC/SC (Gordon & Wallace, 1975);  
     GA/SC (Hudson & Nichols, 1986);  
     MD/VA (Flint & Butler, 1983);  
     NC/SC (Unzicker, Resh, & Morse, 1982);  
     AK (Zhou et al., 2011);  
     AL (Harris et al, 1983; Harris, Lago, & O'Neil, 1984;  
         Harris, 1987; Lago & Harris, 1987;  
         Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991;  
         Moulton & Stewart, 1996; Hicks & Haynes, 2000a;  
         Hicks & Haynes, 2000b);  
     AR (Unzicker, Aggus, & Warren, 1970; Schuster & Etnier, 1978; Hamilton & Schuster, 1979;  
         Nimmo, 1987; Bowles & Mathis, 1989; Moulton & Stewart, 1996;  
         Bowles, 2020; Bowles, Cheri, Usrey, & Williams, 2020);  
     CT (Bilger, 1986; Nelson, 1987; Downs & Godwin, 1987;  
         Nelson & Downs, 1995; Moulton & Stewart, 1996);  
     DE (Lake, 1984; Moulton & Stewart, 1996);  
     FL (Harris & Lawrence, 1978; Moulton & Stewart, 1996; Pescador, Rasmussen, & Harris, 2004;  
         Rasmussen, 2004);  
     GA (Ross, 1944; Schuster & Etnier, 1978;  
         Hamilton & Schuster, 1979; Nimmo, 1987;  
         Frazer, Harris, & Ward, 1991; Moulton & Stewart, 1996);  
     IA (Harris & Lawrence, 1978; Moulton & Stewart, 1996; Blinn, Ruiter, & Flint, 2009;  
         Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
     IL (Ross, 1938; Schuster & Etnier, 1978; Hamilton & Schuster, 1979; Nimmo, 1987;  
         Moulton & Stewart, 1996; Zhou et al., 2011;  
         Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
     IN (Ross, 1938; Schuster & Etnier, 1978; Hamilton & Schuster, 1979; Waltz & McCafferty, 1983;  
         Bright, 1986; Nimmo, 1987; Moulton & Stewart, 1996; Runde & Hellenthal, 2000;  
         Simon, Morris, Robb, & McCoy, 2015;  
         DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
         Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
     KS (Hamilton & Schuster, 1979; Moulton & Stewart, 1996;  
         Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
     KY (Resh, 1975; Schuster & Etnier, 1978; Hamilton & Schuster, 1979; Haag, Resh, & Neff, 1984;  
         Nimmo, 1987; Phillippi & Schuster, 1987; Floyd & Schuster, 1990;  
         Moulton & Stewart, 1996; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
         Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
     LA (Lago, Holzenthal, & Harris, 1982; Moulton & Stewart, 1996);  
     MA (Neves, 1979; Bilger, 1986; Nimmo, 1987; Moulton & Stewart, 1996; Whitmore 2008);  
     MB (Flannagan & Flannagan, 1982; Moulton & Stewart, 1996);  
     MD (Flint, 2008);  
     ME (Blickle & Morse, 1966; Schuster & Etnier, 1978;  
         Hamilton & Schuster, 1979; Mingo & Gibbs, 1980);



Bilger, 1986; Nimmo, 1987; Moulton & Stewart, 1996; Hury & Harris, 2000);  
 MI (Ross, 1944; Petersen & Cummins, 1974; Schuster & Etnier, 1978;  
 Hamilton & Schuster, 1979; Nimmo, 1987; Moulton & Stewart, 1996;  
 Yanoviak & McCafferty, 1996;  
 Houghton, Brandin, & Brakel, 2011; Brakel, Wassink, & Houghton, 2015;  
 DeWalt & South, 2015; Houghton, 2015; Houghton, 2016;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
 Houghton & Lardner, 2020; Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Denning, 1943; Etnier, 1965; Schuster & Etnier, 1978;  
 Lager, Johnson, Williams, & McCullough, 1979;  
 Hamilton & Schuster, 1979; Nimmo, 1987; MacLean, 1995;  
 Moulton & Stewart, 1996; Monson, 1997;  
 Harris, Kondratieff, & Boyle, 2000;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Chamorro & Holzenthal, 2011;  
 Zhou et al., 2011; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Harris & Lawrence, 1978; Mathis & Bowles, 1992; Moulton & Stewart, 1996;  
 Ferro & Sites, 2007; Bowles, 2020;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Lago, Holzenthal, & Harris, 1982; Moulton & Stewart, 1996);  
 NB (Zhou et al., 2011);  
 NC (Wray, 1950; Schuster & Etnier, 1978;  
 Penrose, Lenat, & Eagleson, 1982;  
 Ross & Wallace, 1982; Lenat, 1983; Lenat, 1987; Nimmo, 1987;  
 Morse, Hamilton, & Hoffman, 1989; Moulton & Stewart, 1996;  
 Floyd, Morse, & Harris, 1997; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010;  
 Zhou et al., 2011);  
 ND (Harris & Carlson, 1978; Nimmo, 1987; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Marshall & Larson, 1982; Nimmo, 1987;  
 Moulton & Stewart, 1996);  
 NH (Morse and Blicke, 1953; Schuster & Etnier, 1978;  
 Hamilton & Schuster, 1979; Nimmo, 1987;  
 Moulton & Stewart, 1996);  
 NJ (Mendez, Spagna, Holzenthal, & Houghton, 2019);  
 NS (Nimmo, 1987; Moulton & Stewart, 1996; Zhou et al., 2011);  
 NY (Betten, 1934; McCabe, 1986; Bilger, 1986; Nimmo, 1987; Moulton & Stewart, 1996;  
 Myers, Kondratieff, Mihuc, & Ruitter, 2011; Tozer, 2018);  
 OH (Ross, 1944; Schuster & Etnier, 1978; Hamilton & Schuster, 1979; Petersen & Foote, 1980;  
 Hury & Foote, 1983; MacLean & MacLean, 1984; Usis & MacLean, 1986;  
 Nimmo, 1987; Garono & MacLean, 1988; Moulton & Stewart, 1996;  
 Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Bowles & Mathis, 1992; Moulton & Stewart, 1996);  
 ON (Ross, 1944; Mackay, 1978; Schuster & Etnier, 1978;  
 Hamilton & Schuster, 1979; Rutherford, 1985; Nimmo, 1987;  
 Harper, 1989; Moulton & Stewart, 1996; Zhou et al., 2011);  
 PA (Ross, 1941; Masteller & Flint, 1979; Masteller & Flint, 1984;  
 Schuster & Etnier, 1978; Hamilton & Schuster, 1979;  
 Swegman, Walker, & Sykora, 1981; Nimmo, 1987;  
 Masteller & Flint, 1992; Moulton & Stewart, 1996; Bradt & Ruggiero, 2017);  
 PE (Nimmo, 1987; Moulton & Stewart, 1996);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979; Nimmo, 1987;  
 Harper, 1989; Moulton & Stewart, 1996);

SC (Morse, Chapin, Herlong, & Harvey, 1980; Nimmo, 1987;  
     Morse, Hamilton, & Hoffman, 1989; Floyd & Morse, 1993;  
     Moulton & Stewart, 1996; Floyd, Morse, & Harris, 1997) ; Zhou et al., 2011;  
 SD (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 SK (Nimmo, 1987; Moulton & Stewart, 1996);  
 TN (Edwards, 1966; Schuster & Etnier, 1978;  
     Etnier & Schuster, 1979; Hamilton & Schuster, 1979;  
     Nimmo, 1987; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998;  
     DeWalt & Heinold, 2005; Etnier, Bauer, & Zirkle, 2006;  
     DeWalt, Jacobus, & McCafferty, 2007);  
 VA (Schuster & Etnier, 1978; Parker & Voshell, 1981; Nimmo, 1987; Hoffman & Parker, 1997;  
     Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004; Flint, 2011);  
 VT (Bilger, 1986; Moulton & Stewart, 1996);  
 WI (Ross, 1944; Hilsenhoff et al, 1972;  
     Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Shapas & Hilsenhoff, 1976;  
     Schuster & Etnier, 1978; Hamilton & Schuster, 1979; Steven & Hilsenhoff, 1984;  
     Schmude & Hilsenhoff, 1986; Nimmo, 1987; Lillie & Hilsenhoff, 1992;  
     Hilsenhoff, 1995; Hilsenhoff, 1996; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016).  
 Hydropsycha bidens Ross, 1938, IL;  
     larval head (Schuster & Etnier, 1978);  
     male & female genitalia (Nimmo, 1987);  
     male genitalia (Houghton, 2012);  
 AR (Unzicker, Aggus, & Warren, 1970; Schuster & Etnier, 1978; Hamilton & Schuster, 1979;  
     Nimmo, 1987; Bowles & Mathis, 1989; Moulton & Stewart, 1996;  
     Bowles, Cheri, Usrey, & Williams, 2020);  
 CO (Ruiter, 1990; Moulton & Stewart, 1996);  
 GA (Gordon & Wallace, 1975; Moulton & Stewart, 1996);  
 IA (Ross, 1938; Schuster & Etnier, 1978;  
     Hamilton & Schuster, 1979; Nimmo, 1987;  
     Moulton & Stewart, 1996; Blinn, Ruiter, & Flint, 2009);  
 IL (Ross, 1938; Harris, 1971; Schuster & Etnier, 1978;  
     Hamilton & Schuster, 1979; Nimmo, 1987;  
     Moulton & Stewart, 1996);  
 IN (Ross, 1938; Schuster & Etnier, 1978;  
     Hamilton & Schuster, 1979; Waltz & McCafferty, 1983;  
     Nimmo, 1987; Moulton & Stewart, 1996);  
 KS (Hamilton & Schuster, 1979);  
 KY (Houp, 1999; Floyd, Moulton, Schuster, Parker, & Robinson, 2012);  
 MB (Nimmo, 1987; Moulton & Stewart, 1996);  
 MI (Ross, 1938; Schuster & Etnier, 1978;  
     Hamilton & Schuster, 1979; Nimmo, 1987;  
     Moulton & Stewart, 1996; Wright, Pytel, & Houghton, 2013);  
 MN (Denning, 1943; Etnier, 1965; Schuster & Etnier, 1978;  
     Hamilton & Schuster, 1979; Nimmo, 1987;  
     Moulton & Stewart, 1996;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2004a;  
     Houghton & Holzenthal, 2010; Houghton, 2012);  
 MO (Ross, 1944; Schuster & Etnier, 1978; Hamilton & Schuster, 1979; Nimmo, 1987;  
     Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007; Bowles, 2020);  
 MT (Roemhild, 1982; Nimmo, 1987; Moulton & Stewart, 1996);  
 ND (Harris, Lago, & Carlson, 1980; Nimmo, 1987;  
     Moulton & Stewart, 1996);

- OH (Ross, 1944; Schuster & Etnier, 1978; Hamilton & Schuster, 1979; Hury & Foote, 1983; Nimmo, 1987; Garono & MacLean, 1988; Moulton & Stewart, 1996; Armitage et al., 2011);
- OK (Moulton & Stewart, 1996; Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006);
- QC (Roy & Harper, 1975; Roy & Harper, 1979; Nimmo, 1987; Moulton & Stewart, 1996);
- TX (Schuster & Etnier, 1978; Hamilton & Schuster, 1979; Nimmo, 1987; Moulton & Stewart, 1996; Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997; Bowles, Tiemann, & Easley, 2007);
- WI (Ross, 1938; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Schuster & Etnier, 1978; Hamilton & Schuster, 1979; Steven & Hilsenhoff, 1984; Schmude & Hilsenhoff, 1986; Nimmo, 1987; Lillie & Hilsenhoff, 1992; Hilsenhoff, 1995; Moulton & Stewart, 1996).
- Hydropsyche bidentata Denning, 1948, SC;  
NC/SC (Unzicker, Resh, & Morse, 1982);  
SC (Denning, 1948).
- Hydropsyche bronta Ross, 1938, MI;  
larval head (Schuster & Etnier, 1978, Central Form distinguishable from H bifida, Appalachian Form illustrated);  
larval head (Smith & Lehmkuhl, 1980a);  
phallus (Ross & Unzicker, 1977; Schuster, 1984);  
phallus, female genitalia (Schuster, 1984);  
larval head (Mackay, 1978; Schmude & Hilsenhoff, 1986);  
pupa (Rutherford, 1985);  
photos of larval parietal truncate peg and hairlike setae; larva (Scheffer & Wiggins, 1986);  
male & female genitalia (Nimmo, 1987);  
male genitalia (Houghton, 2012);  
photos of larva, head, pronotum (Ruiter, Boyle, & Zhou, 2013);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
AB (Scheffer & Wiggins, 1986; Nimmo, 1987; Moulton & Stewart, 1996);
- AR (Unzicker, Aggus, & Warren, 1970; Scheffer & Wiggins, 1986; Nimmo, 1987; Bowles & Mathis, 1989; Moulton & Stewart, 1996; Bowles, Cheri, Usrey, & Williams, 2020);
- CO (Herrmann, Ruiter, & Unzicker, 1986; Moulton & Stewart, 1996; Ruse & Herrmann, 2000; Zuellig, Heinold, Kondratieff, & Ruiter, 2012);
- CT (Nelson, 1987; Nelson & Downs, 1995; Moulton & Stewart, 1996);
- DE (Lake, 1984; Moulton & Stewart, 1996);
- IA (Blinn, Ruiter, & Flint, 2009; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- IL (Ross, 1938; Schuster & Etnier, 1978; Scheffer & Wiggins, 1986; Nimmo, 1987; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- IN (Schuster & Etnier, 1978, Central Form; Waltz & McCafferty, 1983; Nimmo, 1987; Moulton & Stewart, 1996; DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- KY (Resh, 1975; Nimmo, 1987; Moulton & Stewart, 1996; Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MA (Schuster & Etnier, 1978, Appalachian Form; Neves, 1979; Bilger, 1986; Nimmo, 1987; Moulton & Stewart, 1996);
- MB (Flannagan, 1978; Flannagan & Flannagan, 1982);

- Schefter & Wiggins, 1986; Nimmo, 1987; Moulton & Stewart, 1996;  
 Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Zhou et al., 2011;  
 Ruiter, Boyle, & Zhou, 2013);
- MD (Ross, 1944; Schuster & Etnier, 1978, Appalachian Form;  
 Schefter & Wiggins, 1986; Nimmo, 1987;  
 Moulton & Stewart, 1996; Flint, 2008);
- MI (Ross, 1938; Nimmo, 1987; Moulton & Stewart, 1996; Houghton, Brandin, & Brakel, 2011;  
 DeWalt & South, 2015;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MN (Denning, 1943; Etnier, 1965; Schuster & Etnier, 1978, Central Form; Nimmo, 1987;  
 Monson, 1997; Moulton & Stewart, 1996; Ruiter, 1996;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Zhou et al., 2011; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007; Bowles, 2020;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- ME (Blickle & Morse, 1966; Nimmo, 1987; Moulton & Stewart, 1996);
- MT (Newell, 1970; Newell & Potter, 1973; Roemhild, 1982;  
 Nimmo, 1987; Moulton & Stewart, 1996);
- NB (Ross, 1944; Nimmo, 1987; Moulton & Stewart, 1996; Zhou et al., 2011);
- NC (Schuster & Etnier, 1978, Appalachian Form;  
 Penrose, Lenat, & Eagleson, 1982; Ross & Wallace, 1982;  
 Schefter & Wiggins, 1986; Nimmo, 1987;  
 Morse, Hamilton, & Hoffman, 1989; Moulton & Stewart, 1996;  
 Floyd, Morse, & Harris, 1997; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010;  
 Park, 2018);
- ND (Harris, Lago, & Carlson, 1980; Nimmo, 1987; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- NE (Harris, Kondratieff, & Boyle, 2000;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- NH (Schuster & Etnier, 1978, Appalachian Form;  
 Moulton & Stewart, 1996);
- NS (Nimmo, 1987; Moulton & Stewart, 1996);
- NY (Ross, 1938; Bilger, 1986; Schefter & Wiggins, 1986; Nimmo, 1987;  
 Moulton & Stewart, 1996; Myers, Kondratieff, Mihuc, & Ruiter, 2011; Tozer, 2018);
- OH (Ross, 1944; Schuster & Etnier, 1978, Central Form; Petersen & Foote, 1980;  
 Huryn & Foote, 1983; MacLean & MacLean, 1984; Usis & MacLean, 1986;  
 Nimmo, 1987; Garono & MacLean, 1988; Moulton & Stewart, 1996;  
 Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- OK (Schefter & Wiggins, 1986; Bowles & Mathis, 1992;  
 Moulton & Stewart, 1996);
- ON (Ross, 1944; Rutherford, 1985; Rutherford, 1986;  
 Rutherford & Mackay, 1985; Rutherford & Mackay, 1986a;  
 Rutherford & Mackay, 1986b; Schefter & Wiggins, 1986;  
 Nimmo, 1987; Blades & Marshall, 1994;  
 Moulton & Stewart, 1996; Zhou et al., 2011);
- PA (Ross, 1944; Swegman, Walker, & Sykora, 1981; Nimmo, 1987;  
 Masteller & Flint, 1992; Moulton & Stewart, 1996);
- QC (Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1975;  
 Roy & Harper, 1979; Schefter & Wiggins, 1986; Nimmo, 1987;  
 Moulton & Stewart, 1996);
- SC (Morse et al, 1979; Nimmo, 1987;  
 Morse, Hamilton, & Hoffman, 1989; Moulton & Stewart, 1996;  
 Floyd, Morse, & Harris, 1997);

- SK (Smith & Lehmkuhl, 1980a; Schefter & Wiggins, 1986; Nimmo, 1987; Moulton & Stewart, 1996);
- TN (Schuster & Etnier, 1978, Appalachian Form; Etnier & Schuster, 1979; Schefter & Wiggins, 1986; Nimmo, 1987; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998);
- VA (Ross, 1944; Schuster & Etnier, 1978, Appalachian Form; Parker & Voshell, 1981; Schefter & Wiggins, 1986; Nimmo, 1987; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004; Flint, 2011);
- VT (Wimmer, 1979; Bilger, 1986; Nimmo, 1987; Moulton & Stewart, 1996);
- WI (Ross, 1938; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Schuster & Etnier, 1978, Central Form; Steven & Hilsenhoff, 1984; Schmude & Hilsenhoff, 1986; Nimmo, 1987; Hilsenhoff, 1995; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- WV (Nugen & Tarter, 1983; Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016);
- WY (Ross, 1944; Ruitter & Lavigne, 1985; Schefter & Wiggins, 1986; Nimmo, 1987; Moulton & Stewart, 1996; Zuellig, Pineda, & Kondratieff, 2002).
- Hydropsyche brunneipennis Flint & Butler, 1983, MD;  
male head, male genitalia & sternum V (Korecki & Ruitter, 2009);  
MD/VA (Flint & Butler, 1983);  
MD (Flint & Butler, 1983; Flint, 2008);  
PA (Masteller & Flint, 1992);  
TN (Flint & Butler, 1983; Etnier, Baxter, Fraley, & Parker, 1998);  
VA (Flint, Hoffman, & Parker, 2004; Flint, 2011);  
WV (Flint & Butler, 1983; Tarter, 1990; Tarter & Floyd, 2016).
- Hydropsyche californica Banks, 1899, CA;  
male & female genitalia (Nimmo, 1987);  
BC (Denning, 1943; Ross & Spencer, 1952; Nimmo, 1987);  
CA (Banks, 1899; Denning, 1956; Nimmo, 1987; McElravy & Resh, 1987; Resh & Mendez, 2022);  
ID (Denning, 1943; Newell & Minshall, 1977; Nimmo, 1987);  
MN (Denning, 1943; Etnier, 1965; Nimmo, 1987; Houghton, Holzenthal, Monson, & MacLean, 2001);  
MT (Nimmo, 1987);  
NM (Ruitter, 1999);  
NV (Ruitter, Baumann, & Flint, 2014);  
OR (Denning, 1943; Anderson, 1976; Nimmo, 1987; Anderson & Hansen, 1987; Anderson & Anderson, 1995);  
UT (Knowlton and Harmston, 1939; Baumann & Unzicker, 1981; Nimmo, 1987);  
WA (Smith, 1981; Nimmo, 1987; Newell, Ruitter, & Strenge, 2001; Zack, Ruitter, Strenge, & Landolt, 2006; Blinn & Ruitter, 2013).
- Hydropsyche carolina Banks, 1938, NC;  
male genitalia (Flint, 1966);  
larval head (Schuster & Etnier, 1978);  
GA/NC/SC (Gordon & Wallace, 1975);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
GA (Schuster & Etnier, 1978; Etnier & Schuster, 1979; Bivens, Carter, & Williams, 2008);  
NC (Banks, 1938; Schuster & Etnier, 1978; Morse, Hamilton, & Hoffman, 1989; Floyd, Morse, & Harris, 1997; Bivens, Carter, & Williams, 2008; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
SC (Morse, Hamilton, & Hoffman, 1989);

- Floyd, Morse, & Harris, 1997; Bivens, Carter, & Williams, 2008);  
 TN (Bivens, Carter, & Williams, 2008);  
 VA (Flint, 2017);  
 WV (Tarter & Floyd, 2016).
- Hydropsyche catawba Ross, 1939, NC;  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 GA (Gordon & Wallace, 1975);  
 NC (Ross 1939; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 TN (Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Flint, Voshell, & Parker, 1979; Morse et al, 1997; Flint, Hoffman, & Parker, 2004).
- Hydropsyche centra Ross, 1938, WA;  
 male & female genitalia (Schefter, Wiggins, & Unzicker, 1986);  
 male & female genitalia (Nimmo, 1987);  
 BC (Ross and Spencer, 1952; Nimmo & Scudder, 1978;  
 Nimmo & Scudder, 1983; Schefter & Wiggins, 1986;  
 Nimmo, 1987);  
 OR (Ross & Spencer, 1952; Anderson, 1976;  
 Schefter & Wiggins, 1986; Nimmo, 1987;  
 Anderson & Hansen, 1987);  
 WA (Ross, 1938; Schefter & Wiggins, 1986; Nimmo, 1987; Blinn & Ruiter, 2013).
- Hydropsyche cheilonis Ross, 1938, IL;  
 male & femlae genitalia (Nimmo, 1987);  
 AL (Harris, Lago, & O'Neil, 1984; Harris, 1987;  
 Lago & Harris, 1987; Frazer, Harris, & Ward, 1991;  
 Harris, O'Neil, & Lago, 1991);  
 IL (Ross, 1938; Schuster & Etnier, 1978; Schefter & Wiggins, 1986; Nimmo, 1987;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1938; Schuster & Etnier, 1978; Waltz & McCafferty, 1983; Nimmo, 1987;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Schuster & Etnier, 1978; Haag, Resh, & Neff, 1984;  
 Phillippi & Schuster, 1987; Floyd & Schuster, 1990;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MI (Ross, 1944; Schuster & Etnier, 1978; Nimmo, 1987;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 OH (Schuster & Etnier, 1978; Huryn & Foote, 1983; Usis & MacLean, 1986;  
 Schefter & Wiggins, 1986; Nimmo, 1987; Garono & MacLean, 1988;  
 Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 PA (Masteller & Flint, 1992);  
 TN (Etnier, 1973; Schuster & Etnier, 1978;  
 Schefter & Wiggins, 1986; Nimmo, 1987; Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Schuster & Etnier, 1978; Parker & Voshell, 1981; Nimmo, 1987;  
 Flint, Hoffman, & Parker, 2004; Zhou et al., 2011);  
 WI (Longridge & Hilsenhoff, 1972, Longridge & Hilsenhoff, 1973,  
 actually C bronta according to Schmude & Hilsenhoff, 1986,  
 who "believe it does not occur this far north"; Hilsenhoff, 1975; Nimmo, 1987;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Schuster & Etnier, 1978; Nimmo, 1987; Tarter, 1990; Tarter & Floyd, 2016).
- Hydropsyche cockerelli Banks, 1905, NM;  
 Hydropsyche bicornuta Denning, 1965, OR (Schefter, Wiggins, & Unzicker, 1986);  
 Hydropsyche jewetti Denning, 1965, MT (Schefter, Wiggins, & Unzicker, 1986);  
 larva (Alstad, 1980);

forewing (Schuster, 1984);  
 male & female genitalia (Schefter, Wiggins, & Unzicker, 1986);  
 photo of larval parietal hairlike seta (Schefter & Wiggins, 1986);  
 male & female genitalia (Nimmo, 1987);  
 AB (Schefter, Wiggins, & Unzicker, 1986; Schefter & Wiggins, 1986; Nimmo, 1987);  
 AZ (Blinn & Ruiter, 2006; Blinn & Ruiter, 2009a);  
 BC (Nimmo & Scudder, 1983; Schefter, Wiggins, & Unzicker, 1986; Nimmo, 1987);  
 CA (Denning, 1956; Denning, 1965; Schefter, Wiggins, & Unzicker, 1986;  
     Schefter & Wiggins, 1986; Nimmo, 1987; Myers & Resh, 1999; Resh & Mendez, 2022);  
 CO (Banks, 1907; Knowlton and Harmston, 1939; Canton & Ward, 1981;  
     Herrmann, Ruiter, & Unzicker, 1986; Schefter, Wiggins, & Unzicker, 1986;  
     Schefter & Wiggins, 1986; Ward, 1986; Nimmo, 1987; Ruiter, 1996;  
     Ruse & Herrmann, 2000; Zack, Ruiter, Strenge, & Landolt, 2006;  
     Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 ID (Newell & Minshall, 1977; Schefter, Wiggins, & Unzicker, 1986; Nimmo, 1987);  
 ME (Blickle & Morse, 1966, but doubtful, far out of rest of  
     range; Schefter & Wiggins, 1986, doubtful; Nimmo, 1987);  
 MT (Denning, 1965; Newell, 1970; Newell & Potter, 1973;  
     Roemhild, 1982; Schefter Wiggins, & Unzicker, 1986;  
     Nimmo, 1987; Stagliano, 2020);  
 NE (Schefter, Wiggins, & Unzicker, 1986;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NM (Banks, 1905; Schefter, Wiggins, & Unzicker, 1986;  
     Schefter & Wiggins, 1986; Nimmo, 1987);  
 OR (Denning, 1965; Anderson, 1976;  
     Schefter, Wiggins, & Unzicker, 1986; Nimmo, 1987);  
 UT (Baumann & Unzicker, 1981; Nimmo, 1987);  
 WA (Smith, 1981; Schefter, Wiggins, & Unzicker, 1986;  
     Nimmo, 1987; Newell, Ruiter, & Strenge, 2001; Blinn & Ruiter, 2013);  
 WY (Dennis & Lavigne, 1975; Gore, 1980; Ruiter & Lavigne, 1985;  
     Schefter, Wiggins, & Unzicker, 1986; Nimmo, 1987;  
     Zuellig, Pineda, & Kondratieff, 2002);  
 YT (Nimmo & Wickstrom, 1984; Schefter, Wiggins, & Unzicker, 1986;  
     Schefter & Wiggins, 1986; Nimmo, 1987;  
     Wiggins & Parker, 1997).  
 Hydropsyche confusa Walker, 1852, NT (type locality not certain, Flint, pers comm)  
     (with synonyms H separata, H guttata and H corbeti according to Nimmo, 1981);  
 Hydropsyche guttata Pictet, 1834, Switzerland [erroneously cited as a synonym of  
     H confusa (Walker, 1852) by Nimmo, 1981; Nimmo, 1987];  
 Hydropsyche separata Banks, 1936, NY, (a synonym of H guttata, Ross & Spencer, 1952;  
     not a synonym of H guttata according to Ross 1965, Smith 1979,  
     Sykora Swegman & Weaver 1981; synonym of H confusa according to Nimmo, 1981);  
 Hydropsyche corbeti Nimmo, 1966, QC, (Schuster & Etnier, 1978)  
     (synonym of H confusa according to Nimmo, 1981);  
 larva (DH Smith, 1979);  
 female genitalia (Nimmo, 1981);  
 protibial spurs, male genitalia (Sykora, Swegman, & Weaver, 1981);  
 male & female genitalia (Nimmo, 1987);  
 male genitalia (Houghton, 2012);  
 AB (Sykora, Swegman, & Weaver, 1981; Nimmo, 1981; Nimmo, 1987);  
 AK (Sykora, Swegman, & Weaver, 1981);  
 BC (Ross & Spencer, 1952; Sykora, Swegman, & Weaver, 1981;  
     Nimmo, 1987);  
 CO (Herrmann, Ruiter, & Unzicker, 1986);  
 ID (Nimmo, 1987);

MB (Denning, 1943; Sykora, Swegman, & Weaver, 1981;  
     Flannagan & Flannagan, 1982; Nimmo, 1987);  
 MN (Denning, 1943; Etnier, 1965; Sykora, Swegman, & Weaver, 1981;  
     Nimmo, 1981; Houghton, Holzenthal, Monson, & MacLean, 2001;  
     Houghton & Holzenthal, 2010; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Ross, 1941; Newell, 1970; Sykora, Swegman, & Weaver, 1981;  
     Roemhild, 1982; Nimmo, 1987);  
 ND (Denning, 1943; Sykora, Swegman, & Weaver, 1981; Nimmo, 1987;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NT (Walker, 1852, according to Betten & Mosely 1940,  
     Sykora, Swegman & Weaver, 1981, and Nimmo, 1981, but type  
     locality not certain, Flint, pers comm; Nimmo, 1987);  
 NY (Banks, 1936; Sykora, Swegman, & Weaver, 1981; Bilger, 1986;  
     Nimmo, 1987);  
 OH (Masteller & Flint, 1979; Sykora, Swegman, & Weaver, 1981;  
     Hurny & Foote, 1983; Nimmo, 1987; Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Sykora, Swegman, & Weaver, 1981; Nimmo, 1987; Williams, 1987, fossil; Harper, 1989);  
 PA (Masteller & Flint, 1979; Nimmo, 1987;  
     Masteller & Flint, 1992);  
 QC (Nimmo, 1966; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1979; Nimmo, 1987;  
     Harper, 1989; Lonsdale, 2020);  
 SK (Banks, 1936; Sykora, Swegman, & Weaver, 1981; Nimmo, 1987);  
 UT (Sykora, Swegman, & Weaver, 1981; Baumann & Unzicker, 1981;  
     Nimmo, 1987);  
 WA (Ross, 1941; Nimmo, 1987);  
 WY (Ruiter & Lavigne, 1985).  
 Hydropsyche cora Denning, 1973, CA;  
     CA (Denning, 1973; Resh & Mendez, 2022).  
 Hydropsyche cuanis Ross, 1938, IL;  
     female genitalia (Schuster, 1984);  
     male & female genitalia (Nimmo, 1987);  
 AL (Lago & Harris, 1991; Harris, O'Neil, & Lago, 1991);  
 CT (Bilger, 1986);  
 IL (Ross, 1938; Ross, 1944; Schuster & Etnier, 1978; Nimmo, 1987;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1944; Schuster & Etnier, 1978; Waltz & McCafferty, 1983; Bright, 1986;  
     Nimmo, 1987; Simon, Morris, Robb, & McCoy, 2015;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Houp, 1999; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Bilger, 1986);  
 MI (Ross, 1938; Ross, 1944; Schuster & Etnier, 1978; Nimmo, 1987;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Lager, Johnson, Williams, & McCullough, 1979, doubtful  
     identification according to  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Nimmo, 1987);  
 OH (Garono & MacLean, 1988, doubtful record according to Armitage et al., 2011);  
 TN (Edwards, 1966; Schuster & Etnier, 1978;  
     Etnier & Schuster, 1979; Nimmo, 1987; Etnier, Baxter, Fraley, & Parker, 1998);  
 VT (Bilger, 1986);  
 WI (Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Schuster & Etnier, 1978;  
     Schmude & Hilsenhoff, 1986; Nimmo, 1987; Hilsenhoff, 1995);



- Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Hydropsyche decalda Ross, 1947, GA;  
 larval head (Schuster & Etnier, 1978);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Lago & Harris, 1987; Harris, 1990;  
 Harris, O'Neil, & Lago, 1991; Harris & O'Neil, 2015);  
 CT (Bilger, 1986);  
 DE (Lake, 1984);  
 FL (Harris, Lago, & Scheiring, 1982; Gordon, 1984;  
 Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004;  
 Denson, Rasmussen, & Harris, 2016);  
 GA (Ross, 1947; Schuster & Etnier, 1978);  
 LA (Schuster & Etnier, 1978);  
 NC (Wray, 1950; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 SC (Morse, Chapin, Herlong, & Harvey, 1980);  
 TX (Schuster & Etnier, 1978; Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);  
 VA (Flint, Hoffman, & Parker, 2009).
- Hydropsyche delrio Ross, 1941, TX;  
 TX (Ross, 1941; Moulton & Stewart, 1997; Bowles, Tiemann, & Easley, 2007);  
 Mexico (Ross, 1944).
- Hydropsyche demora Ross, 1941, GA;  
 larval head (Schuster & Etnier, 1978);  
 GA/NC/SC (Gordon & Wallace, 1975);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Lago & Harris, 1987; Harris, 1990;  
 Harris, O'Neil, & Lago, 1991);  
 GA (Ross, 1941; Schuster & Etnier, 1978);  
 NC (Penrose, Lenat, & Eagleson, 1982; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 TN (Schuster & Etnier, 1978; Etnier & Schuster, 1979; Etnier, Baxter, Fraley, & Parker, 1998).
- Hydropsyche depravata Hagen, 1861, GA;  
 phallus (Schuster, 1984);  
 male & female genitalia (Nimmo, 1987);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris, Lago, & O'Neil, 1984; Harris, 1987;  
 Lago & Harris, 1987; Frazer, Harris, & Ward, 1991;  
 Harris, O'Neil, & Lago, 1991);  
 GA (Hagen, 1861; Schuster & Etnier, 1978; Nimmo, 1987);  
 IN (Ross, 1944; Schuster & Etnier, 1978; Waltz & McCafferty, 1983; Nimmo, 1987;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Ross, 1944; Resh, 1975; Schuster & Etnier, 1978; Nimmo, 1987;  
 Etnier, Bauer, & Zirkle, 2006; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MB (Nimmo, 1987);  
 NC (Brimley, 1938; Schuster & Etnier, 1978; Nimmo, 1987;  
 Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 OH (Huryn & Foote, 1983; Nimmo, 1987; Garono & MacLean, 1988; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 TN (Ross, 1944; Edwards, 1966; Schuster & Etnier, 1978;  
 Etnier & Schuster, 1979; Nimmo, 1987; Etnier, Baxter, Fraley, & Parker, 1998;  
 Etnier, Bauer, & Zirkle, 2006; DeWalt & Heinold, 2005; Zhou et al., 2011);  
 VA (Nimmo, 1987; Flint, Hoffman, & Parker, 2004; Zhou et al., 2011);  
 WV (Harris, O'Neil, & Lago, 1991).
- Hydropsyche dicantha Ross, 1938, ON;  
 larval head (Schuster & Etnier, 1978; Mackay, 1978);  
 pupa (Rutherford, 1985);

male & female genitalia (Nimmo, 1987);  
 male genitalia (Houghton, 2012);  
 MD/VA (Flint & Butler, 1983);  
 AL (Harris, Lago, & O'Neil, 1984; Harris, 1987;  
     Lago & Harris, 1987; Frazer, Harris, & Ward, 1991;  
     Harris, O'Neil, & Lago, 1991; Hicks & Haynes, 2000a);  
 DC (Ross, 1944; Schuster & Etnier, 1978);  
 DE (Lake, 1984; Nimmo, 1987);  
 GA (Frazer, Harris, & Ward, 1991);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Ross, 1944; Resh, 1975; Schuster & Etnier, 1978; Haag, Resh, & Neff, 1984; Nimmo, 1987;  
     Phillippi & Schuster, 1987; Floyd & Schuster, 1990;  
     Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MD (Harris, O'Neil, & Lago, 1991);  
 MI (Ross, 1944; Leonard and Leonard, 1949; Nimmo, 1987;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Schuster & Etnier, 1978; Nimmo, 1987;  
     MacLean, 1995; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NH (Morse and Blickle, 1953; Schuster & Etnier, 1978;  
     Nimmo, 1987);  
 NY (Ross, 1944; Schuster & Etnier, 1978; Bilger, 1986;  
     Nimmo, 1987; Myers, Kondratieff, Mihuc, & Ruitter, 2011);  
 OH (Flint, Voshell, & Parker, 1979; Petersen & Foote, 1980; MacLean & MacLean, 1980;  
     Huryn & Foote, 1983; MacLean & MacLean, 1984; Usis & MacLean, 1986;  
     Nimmo, 1987; Garono & MacLean, 1988; Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Ross, 1938; Ross, 1944; Mackay, 1978; Schuster & Etnier, 1978;  
     Rutherford, 1985; Nimmo, 1987);  
 PA (Flint, Voshell, & Parker, 1979; Nimmo, 1987;  
     Masteller & Flint, 1992);  
 QC (Robert, 1958; Roy & Harper, 1975; Roy & Harper, 1979;  
     Nimmo, 1987);  
 TN (Etnier & Schuster, 1979; Nimmo, 1987; Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Flint, Voshell, & Parker, 1979; Parker & Voshell, 1981; Nimmo, 1987;  
     Flint, Hoffman, & Parker, 2004; Flint, 2011);  
 WI (Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Schuster & Etnier, 1978;  
     Schmude & Hilsenhoff, 1986; Nimmo, 1987; Hilsenhoff, 1995;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Nugen & Tarter, 1983; Tarter, 1990; Tarter & Floyd, 2016).  
 Hydropsyche dorata Denning, 1983, OR;  
     OR (Denning, 1983).  
 Hydropsyche elissoma Ross, 1947, GA;  
     larval head (Schuster & Etnier, 1978);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris, Lago, & O'Neil, 1984; Harris, 1987;  
     Lago & Harris, 1987; Harris, O'Neil, & Lago, 1991; Harris & O'Neil, 2015);  
 FL (Harris, Lago, & Scheiring, 1982; Scheiring, 1985;  
     Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004;  
     Denson, Rasmussen, & Harris, 2016);

GA (Ross, 1947; Schuster & Etnier, 1978);  
 LA (Lago, Holzenthal, & Harris, 1982);  
 NC (Wray, 1950; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 SC (Morse, Chapin, Herlong, & Harvey, 1980).

Hydropsyche etnieri (Schuster and Talak, 1977), Symphitopsyche, TN  
 pupa, male segment V, male genitalia (Schuster, 1984);  
 larval head (Schuster & Etnier, 1978; Schefter & Wiggins, 1986);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 TN (Schuster & Talak, 1977; Schuster & Etnier, 1978;  
 Schefter & Wiggins, 1986; Morse et al, 1997; Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Morse et al, 1997; Flint, Hoffman, & Parker, 2004).

Hydropsyche fattigi Ross, 1941, GA;  
 GA/SC (Wallace, 1975);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Lago & Harris, 1987; Harris, 1990;  
 Harris, O'Neil, & Lago, 1991);  
 GA (Ross, 1941; Gordon & Wallace, 1975);  
 NC (Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 TN (Etnier & Schuster, 1979; Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Flint, Voshell, & Parker, 1979; Parker & Voshell, 1981; Flint, Hoffman, & Parker, 2004).

Hydropsyche fenestra Lago & Harris, 2006, AL;  
 AL (Lago & Harris, 2006).

Hydropsyche franclemonti Flint, 1992, VA;  
 CT (Flint, 1992; Nelson & Downs, 1995);  
 GA (Flint, 1992);  
 NC (Flint, 1992; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 NY (Flint, 1992; Zhou et al., 2011; Myers, Kondratieff, Mihuc, & Ruitter, 2011);  
 QC (Flint, 1992);  
 SC (Flint, 1992);  
 TN (Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Flint, 1992; Flint, Hoffman, & Parker, 2004).

Hydropsyche frisoni Ross, 1938, IL;  
 male & female genitalia (Nimmo, 1987);  
 male genitalia (Lago & Harris, 2006);  
 AL (Schuster & Etnier, 1978; Harris, Lago, & O'Neil, 1984;  
 Harris, 1987; Lago & Harris, 1987; Nimmo, 1987;  
 Harris, O'Neil, & Lago, 1991; Lago & Harris, 2006);  
 CO (Harris & Lawrence, 1978);  
 CT (Bilger, 1986);  
 IA (Nimmo, 1987;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1938; Schuster & Etnier, 1978; Nimmo, 1987; Lago & Harris, 2006;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Nimmo, 1987;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Harris & Lawrence, 1978;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Thoeny & Batch, 1983; Floyd & Schuster, 1990;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MI (Ross, 1938; Schuster & Etnier, 1978; Nimmo, 1987;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Schuster & Etnier, 1978; Nimmo, 1987; Houghton, Holzenthal, Monson, & MacLean, 2001);

- Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Harris & Lawrence, 1978;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NE (Harris & Lawrence, 1978;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OH (Nimmo, 1987; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 TN (Etnier, 1973; Schuster & Etnier, 1978; Nimmo, 1987; Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Flint, Hoffman, & Parker, 2004);  
 WV (Ruiter, 2000; Tarter & Floyd, 2016).
- Hydropsyche hageni* Banks, 1905, VA;  
 larval head (Schuster & Etnier, 1978);  
 male & female genitalia (Nimmo, 1987);  
 MD/VA (Flint & Butler, 1983);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris, Lago, & O'Neil, 1984; Harris, 1987;  
 Lago & Harris, 1987; Nimmo, 1987;  
 Harris, O'Neil, & Lago, 1991);  
 DC (Flint, pers comm);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Denning, 1943; Schuster & Etnier, 1978; Nimmo, 1987;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Simon, Morris, Robb, & McCoy, 2015;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Ross, 1944; Resh, 1975; Schuster & Etnier, 1978; Nimmo, 1987;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MB (Denning, 1943; Schuster & Etnier, 1978;  
 Flannagan & Flannagan, 1982; Nimmo, 1987);  
 MD (Ross, 1938; Schuster & Etnier, 1978; Nimmo, 1987; Flint, 2008);  
 MI (Davis, Hudson, & Armitage, 1991);  
 MN (Denning, 1943, doubtful identification according to  
 Houghton, Holzenthal, Monson, & MacLean, 2001;  
 Etnier, 1965; Schuster & Etnier, 1978; Nimmo, 1987);  
 NC (Banks, 1908; Schuster & Etnier, 1978; Nimmo, 1987;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 OH (McElravy & Foote, 1978, doubtful record, Huryn & Foote, 1983;  
 Petersen & Foote, 1980; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Nimmo, 1987);  
 PA (Masteller & Flint, 1992);  
 QC (Roy & Harper, 1979);  
 TN (Schuster & Etnier, 1978; Etnier & Schuster, 1979;  
 Nimmo, 1987; Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Banks, 1905; Schuster & Etnier, 1978; Parker & Voshell, 1981; Nimmo, 1987;  
 Flint, Hoffman, & Parker, 2004; Flint, 2011);  
 WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973;  
 Hilsenhoff, 1975; Schuster & Etnier, 1978; Nimmo, 1987);  
 WV (Nugen & Tarter, 1983; Tarter, 1990; Tarter & Floyd, 2016).
- Hydropsyche hoffmani* Ross, 1962, VA;  
 larval head (Schuster & Etnier, 1978);  
 pupa (Schuster, 1984);  
 MD/VA (Flint & Butler, 1983);  
 DE (Lake, 1984);  
 KY (Evans, Floyd, Etnier, Cook, & Vogel, 2017);

Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MD (Flint, Voshell, & Parker, 1979; Nugen & Tarter, 1983);  
 NT (Cordero, Sánchez-Ramírez, & Currie, 2017);  
 VA (Ross, 1962; Schuster & Etnier, 1978; Parker & Voshell, 1981; Nugen & Tarter, 1983;  
 Flint, Hoffman, & Parker, 2004; Flint, 2011);  
 WV (Nugen & Tarter, 1983; Tarter, 1990; Tarter & Floyd, 2016).

Hydropsyche impula Denning, 1948, MA;  
 DE (Lake, 1984);  
 MA (Denning, 1948);  
 PA (Masteller & Flint, 1992).

Hydropsyche incommoda Hagen, 1861, Georgien, Winthem;  
 photo of net (Wallace, Webster, & Woodall, 1977);  
 male genitalia (Flint, Voshell, & Parker, 1979);  
 female genitalia (Schuster, 1984);  
 Georgien, Winthem (state or province unknown, Hagen, 1861);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris, Lago, & O'Neil, 1984; Harris, 1987;  
 Lago & Harris, 1987; Harris, O'Neil, & Lago, 1991; Harris & O'Neil, 2015);  
 AR (Unzicker, Aggus, & Warren, 1970; Schuster & Etnier, 1978;  
 Hamilton & Schuster, 1979; Bowles & Mathis, 1989);  
 CO (Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 FL (Schuster & Etnier, 1978; Flint, Voshell, & Parker, 1979;  
 Hamilton & Schuster, 1979; Parker & Voshell, 1981;  
 Harris, Lago, & Scheiring, 1982; Gordon, 1984;  
 Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004;  
 Denson, Rasmussen, & Harris, 2016);  
 GA (Wallace, Webster, & Woodall, 1977; Schuster & Etnier, 1978;  
 Flint, Voshell, & Parker, 1979; Hamilton & Schuster, 1979;  
 Murray-Stoker, Batzer, Murray-Stoker, & McHugh, 2020);  
 IA (Blinn, Ruiter, & Flint, 2009;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Harris, 1971, erroneous, Flint, pers comm;  
 Schuster & Etnier, 1978, erroneous, Flint, pers comm;  
 Hamilton & Schuster, 1979, erroneous, Flint, pers comm;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton & Schuster, 1979;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975, questionable, Flint, pers comm;  
 Schuster & Etnier, 1978, questionable, Flint, pers comm;  
 Hamilton & Schuster, 1979, questionable, Flint, pers comm;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Schuster & Etnier, 1978, questionable, Flint, pers comm;  
 Hamilton & Schuster, 1979, questionable, Flint, pers comm);  
 MD (Flint, Voshell, & Parker, 1979);  
 MI (Davis, Hudson, & Armitage, 1991;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Schuster & Etnier, 1978, probably erroneous, Flint, pers comm;  
 Hamilton & Schuster, 1979, probably erroneous, Flint, pers comm.;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 ND (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NE (Zuellig, Heinold, Kondratieff, & Ruiter, 2012);

- Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NY (Schuster & Etnier, 1978, probably erroneous, Flint, pers comm;  
 Hamilton & Schuster, 1979, probably erroneous, Flint, pers comm.;  
 Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Garono & MacLean, 1988; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979, erroneous,  
 Flint, pers comm);  
 SC (Cudney & Wallace, 1980);  
 SD (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 VA (Flint, Voshell, & Parker, 1979; Parker & Voshell, 1979;  
 Parker & Voshell, 1981; Parker & Voshell, 1982;  
 Parker & Voshell, 1983; Hoffman & Parker, 1997; Flint, Hoffman, & Parker, 2004);  
 WI (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Hydropsyche intricata* Denning, 1965, CA;  
 CA (Denning, 1965; Resh & Mendez, 2022).
- Hydropsyche leonardi* Ross, 1938, MI;  
 larval head (Schuster & Etnier, 1978);  
 male genitalia (Nimmo, 1987);  
 MD/VA (Flint & Butler, 1983);  
 DE (Lake, 1984);  
 MI (Ross, 1938; Schuster & Etnier, 1978; Nugen & Tarter, 1983; Nimmo, 1987;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NY (Bilger, 1986; Tozer, 2018);  
 ON (Nimmo, 1987);  
 PA (Masteller & Flint, 1992);  
 VA (Schuster & Etnier, 1978; Flint, Voshell, & Parker, 1979; Parker & Voshell, 1981;  
 Nugen & Tarter, 1983; Nimmo, 1987; Flint, Hoffman, & Parker, 2004; Flint, 2011);  
 WI (Schmude & Hilsenhoff, 1986; Hilsenhoff, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Nugen & Tarter, 1983; Tarter, 1990; Tarter & Floyd, 2016).
- Hydropsyche macleodi* Flint, 1965, NC;  
 larval head (Schuster & Etnier, 1978);  
 larval head, abdominal gill (Schefter & Wiggins, 1986);  
 GA/NC (Wallace, Webster, & Woodall, 1977);  
 GA/NC/SC (Gordon & Wallace, 1975);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 GA (Schuster & Etnier, 1978; Benke & Wallace, 1980;  
 Nugen & Tarter, 1983; Schefter & Wiggins, 1986);  
 NC (Flint, 1965; Schuster & Etnier, 1978;  
 Penrose, Lenat, & Eagleson, 1982; Nugen & Tarter, 1983;  
 Armitage & Tennessen, 1984; Schefter & Wiggins, 1986;  
 DeWalt, Jacobus, & McCafferty, 2007;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);  
 TN (Schuster & Etnier, 1978; Etnier & Schuster, 1979;  
 Nugen & Tarter, 1983; Schefter & Wiggins, 1986;  
 Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005);  
 VA (Schuster & Etnier, 1978; Parker & Voshell, 1981;  
 Nugen & Tarter, 1983; Schefter & Wiggins, 1986; Flint, Hoffman, & Parker, 2004);  
 WV (Nugen & Tarter, 1983; Schefter & Wiggins, 1986; Tarter, 1990; Tarter & Floyd, 2016).
- ? *Hydropsyche marqueti* Navás, 1907, MT;  
 unidentified (Ross, 1944);  
 MT (Navás, 1907).
- Hydropsyche mississippiensis* Flint, 1972, MS;

larval head (Schuster & Etnier, 1978);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris, Lago, & O'Neil, 1984; Harris, 1987;  
     Lago & Harris, 1987; Harris, O'Neil, & Lago, 1991;  
     Hicks & Haynes, 2000a; Hicks & Haynes, 2000b; Harris & O'Neil, 2015);  
 FL (Pescador, Rasmussen, & Harris, 1995, 2004; Denson, Rasmussen, & Harris, 2016);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Flint, Voshell, & Parker, 1979;  
     Lago, Holzenthal, & Harris, 1982);  
 MS (Flint, 1972; Schuster & Etnier, 1978;  
     Lago, Holzenthal, & Harris, 1982);  
 NC (Penrose, Lenat, & Eagleson, 1982; Lenat, Ruiters, Parker, Robinson, Beaty, & Flint, 2010);  
 SC (Flint, Voshell, & Parker, 1979);  
 TN (Etnier, & Schuster, 1979; Etnier, Baxter, Fraley, & Parker, 1998);  
 TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);  
 VA (Flint, Voshell, & Parker, 1979; Parker & Voshell, 1981; Flint, Hoffman, & Parker, 2004).  
 Hydropsyche morosa Hagen, 1861, Canada, DC, NY;  
     Hydropsyche bifida Banks, 1905, CO (Schefter & Unzicker, 1984;  
         Schefter & Wiggins, 1986);  
     Hydropsyche chlorotica Hagen, 1861, Canada (Ross, 1938);  
     larva, retreat, net (Wiggins, 1977);  
     larval head (Schuster & Etnier, 1978);  
     larval head, thoracic nota (Smith & Lehmkuhl, 1980a);  
     larval head, metafemur, male & female genitalia  
         (Schefter & Unzicker, 1984);  
     pupa (Rutherford, 1985);  
     larval head (Mackay, 1978; Schmude & Hilsenhoff, 1986);  
     larval head, forecoxa, midtrochanter & femur, abdominal setae,  
         sternum IX, anal proleg, male & female genitalia  
         (Schefter & Wiggins, 1986);  
     larval frontoclypeus (Williams, 1987);  
     male & female genitalia (Nimmo, 1987);  
     male genitalia (Houghton, 2012);  
     photos of adults, male & female genitalia (Metcalf, Kurthen, Freedman, & Orfinger, 2022);  
     Canada (Hagen, 1861);  
     GA/NC/SC (Gordon & Wallace, 1975);  
     GA/SC (Wallace, 1975);  
     AB (Nimmo, 1987; Moulton & Stewart, 1996);  
     AR (Bowles & Mathis, 1989; Moulton & Stewart, 1996);  
     BC (Essig, 1926; Nimmo & Scudder, 1978; Schuster & Etnier, 1978;  
         Nimmo & Scudder, 1983; Schefter & Wiggins, 1986;  
         Nimmo, 1987; Moulton & Stewart, 1996);  
     CO (Banks, 1905; Schuster & Etnier, 1978; Schefter & Unzicker, 1984;  
         Herrmann, Ruiters, & Unzicker, 1986; Nimmo, 1987; Moulton & Stewart, 1996;  
         Zuellig, Heinold, Kondratieff, & Ruiters, 2012);  
     CT (Bilger, 1986; Nelson, 1987; Nelson & Downs, 1995;  
         Moulton & Stewart, 1996);  
     DC (Hagen, 1861; Moulton & Stewart, 1996);  
     DE (Lake, 1984; Nimmo, 1987; Moulton & Stewart, 1996);  
     GA (Schefter & Wiggins, 1986; Moulton & Stewart, 1996);  
     IA (Harris & Lawrence, 1978; Moulton & Stewart, 1996;  
         Blinn, Ruiters, & Flint, 2009, as *H. bifida*; Zhou et al., 2011;  
         Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
     ID (Newell & Minshall, 1977; Nimmo, 1987; Moulton & Stewart, 1996);

IL (Hagen, 1861; Ross, 1944; Schuster & Etnier, 1978; Schefter & Unzicker, 1984; Schefter & Wiggins, 1986; Nimmo, 1987; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

IN (Harris & Lawrence, 1978; Waltz & McCafferty, 1983; Moulton & Stewart, 1996; Runde & Hellenthal, 2000; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

KS (Hamilton & Schuster, 1979; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

KY (Resh, 1975; Nimmo, 1987; Moulton & Stewart, 1996; Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MA (Neves, 1979; Bilger, 1986; Nimmo, 1987; Moulton & Stewart, 1996);

MB (Denning, 1943; Flannagan, 1978; Schuster & Etnier, 1978; Hamilton & Schuster, 1979; Flannagan & Flannagan, 1982; Schefter & Wiggins, 1986; Nimmo, 1987; Moulton & Stewart, 1996);

ME (Blickle & Morse, 1966; Schuster & Etnier, 1978; Hamilton & Schuster, 1979; Mingo & Gibbs, 1980; Bilger, 1986; Nimmo, 1987; Moulton & Stewart, 1996; Huryn & Harris, 2000);

MI (Ross, 1944; Leonard and Leonard, 1949; Schuster & Etnier, 1978; Hamilton & Schuster, 1979; Nimmo, 1987; Williams, 1987, fossil; Davis, Hudson, & Armitage, 1991; Moulton & Stewart, 1996; Yanoviak & McCafferty, 1996; Ruiter, 2010; Houghton, Brandin, & Brakel, 2011; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018; Houghton & Lardner, 2020; Houghton, 2022; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022; Metcalfe, Kurthen, Freedman, & Orfinger, 2022);

MN (Denning, 1943; Etnier, 1965; Schuster & Etnier, 1978; Hamilton & Schuster, 1979; Schefter & Unzicker, 1984; Schefter & Wiggins, 1986; Nimmo, 1987; MacLean, 1995; Moulton & Stewart, 1996; Ruiter, 1996; Harris, Kondratieff, & Boyle, 2000; Houghton, Holzenthal, Monson, & MacLean, 2001; Zhou et al., 2011; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MO (Schefter & Unzicker, 1984; Mathis & Bowles, 1992; Moulton, Beitinger, Stewart, & Currie, 1993; Moulton & Stewart, 1996; Ferro & Sites, 2007; Bowles, 2020; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MT (Newell, 1970; Newell & Potter, 1973; Roemhild, 1982; Nimmo, 1987; Moulton & Stewart, 1996);

NB (Schefter & Unzicker, 1984; Nimmo, 1987; Moulton & Stewart, 1996; Zhou et al., 2011);

NC (Brimley, 1938; Schuster & Etnier, 1978; Hamilton & Schuster, 1979; Penrose, Lenat, & Eagleson, 1982; Schefter & Unzicker, 1984; Lenat & Penrose, 1987; Nimmo, 1987; Moulton & Stewart, 1996; DeWalt, Jacobus, & McCafferty, 2007; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Park, 2018);

ND (Harris, Lago, & Carlson, 1980; Schefter & Wiggins, 1986; Nimmo, 1987; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

NH (Morse and Blickle, 1953; Schuster & Etnier, 1978; Hamilton & Schuster, 1979; Nimmo, 1987; Moulton & Stewart, 1996);

NJ (Hagen, 1873; Smith, 1890; Hamilton & Schuster, 1979; Nimmo, 1987; Moulton & Stewart, 1996; Zhou et al., 2011);



NS (Schefter & Wiggins, 1986; Nimmo, 1987; Moulton & Stewart, 1996);  
 NT (Nimmo, 1986; Nimmo, 1987);  
 NY (Hagen, 1861; Ross, 1944; Schuster & Etnier, 1978;  
     Hamilton & Schuster, 1979; Schefter & Unzicker, 1984;  
     Bilger, 1986; Schefter & Wiggins, 1986; Nimmo, 1987;  
     Moulton & Stewart, 1996; Myers, Kondratieff, Mihuc, & Ruiters, 2011; Tozer, 2018);  
 OH (MacLean & MacLean, 1980; Huryn & Foote, 1983; Usis & MacLean, 1986;  
     Garono & MacLean, 1988; Moulton & Stewart, 1996; Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Ross, 1944; Schuster & Etnier, 1978; Nimmo, 1987;  
     Bowles & Mathis, 1992; Moulton & Stewart, 1996);  
 ON (Ross, 1944; Peterson, 1952; Wiggins, 1977; Mackay, 1978;  
     Schuster & Etnier, 1978; Hamilton & Schuster, 1979;  
     Schefter & Unzicker, 1984; Rutherford, 1985;  
     Rutherford, 1986; Rutherford & Mackay, 1985;  
     Rutherford & Mackay, 1986a; Rutherford & Mackay, 1986b;  
     Schefter & Wiggins, 1986; Nimmo, 1987; Harper, 1989;  
     Matczak & Mackay, 1990; Moulton & Stewart, 1996; Zhou et al., 2011);  
 PA (Masteller & Flint, 1979; Swegman, Walker, & Sykora, 1981, as  
     C sparna; Nimmo, 1987; Masteller & Flint, 1992;  
     Moulton & Stewart, 1996; Bradt & Ruggiero, 2017);  
 QC (Robert, 1958; Corbet, Schmid, & Augustin, 1966; Corbet, 1966; Roy & Harper, 1975;  
     Schuster & Etnier, 1978; Roy & Harper, 1979; Hamilton & Schuster, 1979;  
     Williams & Williams, 1979; Schefter & Unzicker, 1984; Schefter & Wiggins, 1986;  
     Nimmo, 1987; Harper, 1989; Moulton & Stewart, 1996;  
     Cordero, Sánchez-Ramírez, & Currie, 2017);  
 SC (Morse, Hamilton, & Hoffman, 1989; Moulton & Stewart, 1996;  
     Floyd, Morse, & Harris, 1997);  
 SD (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 SK (Smith & Lehmkuhl, 1980a; Schefter & Unzicker, 1984;  
     Schefter & Wiggins, 1986; Nimmo, 1987;  
     Moulton & Stewart, 1996);  
 TN (Edwards, 1966, record dubious according to Schuster & Etnier, 1978 and  
     Etnier, Baxter, Fraley, & Parker, 1998;  
     Schuster & Etnier, 1978;  
     Etnier & Schuster, 1979; Hamilton & Schuster, 1979;  
     Schefter & Unzicker, 1984; Schefter & Wiggins, 1986;  
     Nimmo, 1987; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998;  
     DeWalt & Heinold, 2005.);  
 UT (Harris & Lawrence, 1978; Moulton & Stewart, 1996);  
 VA (Ross, 1944; Schuster & Etnier, 1978;  
     Hamilton & Schuster, 1979; Parker & Voshell, 1981;  
     Schefter & Unzicker, 1984; Schefter & Wiggins, 1986;  
     Nimmo, 1987; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004;  
     Zhou et al., 2011);  
 VT (Wimmer, 1979; Bilger, 1986; Moulton & Stewart, 1996);  
 WA (Essig, 1926; Schuster & Etnier, 1978; Nimmo, 1987;  
     Moulton & Stewart, 1996);  
 WI (Ross, 1944; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
     Schuster & Etnier, 1978; Hamilton & Schuster, 1979; Steven & Hilsenhoff, 1984;  
     Schefter & Unzicker, 1984; Schmude & Hilsenhoff, 1986; Schefter & Wiggins, 1986;  
     Nimmo, 1987; Hilsenhoff, 1995; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Ross, 1944; Schuster & Etnier, 1978; Nugen & Tarter, 1983;  
     Nimmo, 1987; Tarter, 1990; Griffith & Perry, 1992);

- Moulton & Stewart, 1996; Tarter & Floyd, 2016);  
 WY (Ross, 1944; Schuster & Etnier, 1978;  
 Hamilton & Schuster, 1979; Gore, 1980;  
 Ruiter & Lavigne, 1985; Nimmo, 1987;  
 Moulton & Stewart, 1996).
- Hydropsyche occidentalis* Banks, 1900, WA;  
*Hydropsyche novamexicanus* Banks, 1904, NM (Milne, 1936);  
 retreats (Mecom, 1970);  
 larva (Alstad, 1980);  
 male & female genitalia (Nimmo, 1987);  
 photos of larva & egg masses (Miller, Schroer, Fleri, & Kennedy, 2020);  
 AB (Nimmo, 1987);  
 AZ (Nimmo, 1987; Moulton, Stewart, & Young, 1994; Houghton, 2001; Blinn & Ruiter, 2006;  
 Blinn & Ruiter, 2009a; Blinn & Ruiter, 2009b; Blinn, Ruiter, & Haden, 2012);  
 BC (Ulmer, 1907; Ross & Spencer, 1952; Nimmo & Scudder, 1978; Nimmo, 1987);  
 CA (Simmons, 1942; Resh, & Sorg, 1978; Nimmo, 1987; McElravy & Resh, 1987; Erman, 1989;  
 Resh & Mendez, 2022);  
 CO (Dodds and Hisaw, 1925; Mecom, 1970; Canton & Ward, 1981;  
 Herrmann, Ruiter, & Unzicker, 1986; Ward, 1986; Nimmo, 1987;  
 Ruse & Herrmann, 2000; Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 ID (Newell & Minshall, 1977; Nimmo, 1987);  
 MT (Newell, 1970; Newell & Potter, 1973; Roemhild, 1982; Nimmo, 1987; Stagliano, 2020);  
 NE (Harris, Kondratieff, & Boyle, 2000;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NM (Banks, 1904, Ross, 1941; Nimmo, 1987; Ruiter, 1996;  
 Vieira, Kondratieff, Ruiter, & Durfee, 2009; Blinn & Ruiter, 2009a);  
 NV (Ruiter, 1999; Ruiter, Baumann, & Flint, 2014);  
 OR (Anderson, 1976; Nimmo, 1987);  
 SD (Ruiter, 1999;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 SK (Nimmo, 1987);  
 UT (Knowlton & Harmston, 1939; Baumann & Unzicker, 1981;  
 Nimmo, 1987; Miller, Schroer, Fleri, & Kennedy, 2020);  
 WA (Banks, 1900; Nimmo, 1987; Zack, Ruiter, Strenge, & Landolt, 2006; Blinn & Ruiter, 2013);  
 WY (Gore, 1980; Ruiter & Lavigne, 1985; Nimmo, 1987; Ruiter, 1996;  
 Zuellig, Pineda, & Kondratieff, 2002);  
 Mexico (Knowlton & Harmston, 1939; Nimmo, 1987).
- Hydropsyche ophthalmica* Flint, 1965, WV;  
 DE (Lake, 1984);  
 NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 PA (Masteller & Flint, 1992);  
 VA (Flint, Voshell, & Parker, 1979; Parker & Voshell, 1981; Flint, Hoffman, & Parker, 2004;  
 Flint, 2011);  
 WV (Flint, 1965; Tarter, 1990; Tarter & Floyd, 2016).
- Hydropsyche orris* Ross, 1938, IL;  
*Hydropsyche cornuta* Ross, 1938, IL (preoccupied by *H. cornuta* Martynov, 1909);  
 photos of larvae (Wallace, 1975);  
 net (Wallace & Malas, 1976);  
 photos of net (Wallace, Webster, & Woodall, 1977);  
 larval head (Schuster & Etnier, 1978);  
 male genitalia (Flint, Voshell, & Parker, 1979);  
 male segment V (Schuster, 1984);  
 male & female genitalia (Nimmo, 1987);  
 male genitalia (Houghton, 2012);  
 OK/TX (Resh, White & White, 1978);

AL (Ross, 1944; Schuster & Etnier, 1978; Harris et al, 1983; Hamilton & Schuster, 1979; Harris, Lago, & O'Neil, 1984; Harris, 1987; Lago & Harris, 1987; Nimmo, 1987; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Hicks & Haynes, 2000a; Hicks & Haynes, 2000b);

AR (Ross, 1944; Unzicker, Aggus & Warren, 1970; Schuster & Etnier, 1978; Hamilton & Schuster, 1979; Nimmo, 1987; Bowles & Mathis, 1989; Moulton & Stewart, 1996; Bowles, Cheri, Usrey, & Williams, 2020);

FL (Gordon, 1984; Pescador, Rasmussen, & Harris, 1995, 2004; Moulton & Stewart, 1996);

GA (Ross, 1944; Wallace, 1975; Wallace, Webster, & Woodall, 1977; Schuster & Etnier, 1978; Hamilton & Schuster, 1979; Nimmo, 1987 [the preceding references are mostly erroneous, Flint, pers comm]; Moulton & Stewart, 1996);

IA (Wenke, 1967; Nimmo, 1987; Moulton & Stewart, 1996; Blinn, Ruiter, & Flint, 2009);

IL (Ross, 1938; Schuster & Etnier, 1978; Hamilton & Schuster, 1979; Nimmo, 1987; Moulton & Stewart, 1996);

IN (Ross, 1944; Schuster & Etnier, 1978; Hamilton & Schuster, 1979; Waltz & McCafferty, 1983; Bright, 1986; Nimmo, 1987; Moulton & Stewart, 1996);

KS (Hamilton & Schuster, 1979; Moulton & Stewart, 1996);

KY (Ross, 1944; Resh, 1975; Schuster & Etnier, 1978; Hamilton & Schuster, 1979; Nimmo, 1987; Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006; Floyd, Moulton, Schuster, Parker, & Robinson, 2012);

LA (Lago, Holzenthal, & Harris, 1982; Nimmo, 1987; Moulton & Stewart, 1996);

MI (Ross, 1938; Schuster & Etnier, 1978; Hamilton & Schuster, 1979; Nimmo, 1987; Moulton & Stewart, 1996);

MN (Denning, 1943; Etnier, 1965; Schuster & Etnier, 1978; Lager, Johnson, Williams, & McCullough, 1979; Hamilton & Schuster, 1979; Nimmo, 1987; Ruiter, 1996; Moulton & Stewart, 1996; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012);

MO (Nimmo, 1987; Mathis & Bowles, 1992; Moulton & Stewart, 1996);

MS (Lago, Holzenthal, & Harris, 1982; Nimmo, 1987; Moulton & Stewart, 1996);

NC (Wray, 1950, probably erroneous, Flint, pers comm; Nimmo, 1987, probably erroneous, Flint, pers comm; Moulton & Stewart, 1996);

NE (Ruiter, 1996; Harris, Kondratieff, & Boyle, 2000);

NY (Bilger, 1986, probably erroneous, Flint, pers comm; Moulton & Stewart, 1996);

OH (Ross, 1944; Schuster & Etnier, 1978; Hamilton & Schuster, 1979; MacLean & MacLean, 1980; Huryn & Foote, 1983; MacLean & MacLean, 1984; Usis & MacLean, 1986; Nimmo, 1987; Garono & MacLean, 1988; Moulton & Stewart, 1996; Armitage et al., 2011);

OK (Nimmo, 1987; Bowles & Mathis, 1992; Moulton & Stewart, 1996; Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006);

PA (Masteller & Flint, 1992);

SD (Nimmo, 1987; Moulton & Stewart, 1996);

TN (Ross, 1944; Edwards, 1955; Edwards, 1956; Edwards, 1966; Etnier & Schuster, 1979; Hamilton & Schuster, 1979; Nimmo, 1987; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998);

Etnier, Bauer, & Zirkle, 2006);

TX (Ross, 1941; Edwards & Arnold, 1961; Edwards, 1973; Schuster & Etnier, 1978; Hamilton & Schuster, 1979; Nimmo, 1987; Moulton & Stewart, 1996; Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);

WI (Ross, 1938; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Shapas & Hilsenhoff, 1976; Schuster & Etnier, 1978; Hamilton & Schuster, 1979; Schmude & Hilsenhoff, 1986; Nimmo, 1987; Lillie & Hilsenhoff, 1992; Hilsenhoff, 1995; Moulton & Stewart, 1996);

WV (Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016).

Hydropsyche oslari Banks, 1905, CO;

Hydropsyche partita Banks, 1914, CA (Ross, 1938);

larva (Alstad, 1980);

male & female genitalia (Schefter & Wiggins, 1986);

male & female genitalia (Nimmo, 1987);

AB (Schefter & Wiggins, 1986; Nimmo, 1987);

AZ (Ross, 1941; Haddock, 1977; Nimmo, 1987; Moulton, Stewart, & Young, 1994; Ruiter, 1996; Houghton, 2001; Blinn & Ruiter, 2006; Blinn & Ruiter, 2009a; Blinn & Ruiter, 2009b; Blinn, Ruiter, & Haden, 2012; Metcalfe, Kennedy, Marks, Smith, & Muehlbauer, 2020);

BC (Essig, 1926; Ross & Spencer, 1952; Nimmo & Scudder, 1978; Schefter & Wiggins, 1986; Nimmo, 1987);

CA (Banks, 1914; Resh & Sorg, 1978; Leland, Fend, Carter, & Mahood, 1986; Schefter & Wiggins, 1986; Nimmo, 1987; McElravy & Resh, 1987; Hemphill, 1988; Erman, 1989; Givens, 2014; Resh & Mendez, 2022);

CO (Banks, 1905; Canton & Ward, 1981; Herrmann, Ruiter, & Unzicker, 1986; Ward, 1986; Schefter & Wiggins, 1986; Nimmo, 1987; DeWalt, Stewart, Moulton, & Kennedy, 1994; Ruiter, 1996; Ruse & Herrmann, 2000; Zuellig, Heinold, Kondratieff, & Ruiter, 2012; Metcalfe, Kennedy, Marks, Smith, & Muehlbauer, 2020);

ID (Newell & Minshall, 1977; Schefter & Wiggins, 1986; Nimmo, 1987);

MT (Roemhild, 1982; Nimmo, 1987; Stagliano, 2020);

ND (Schefter & Wiggins, 1986; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

NM (Banks, 1914; Nimmo, 1987; Vieira, Kondratieff, Ruiter, & Durfee, 2009; Kremer, 2019; Kremer & Caldwell, 2022);

NV (Ruiter, Baumann, & Flint, 2014);

OR (Anderson, 1976; Anderson, Cooper, & Denning, 1982; Schefter & Wiggins, 1986; Nimmo, 1987; Anderson & Hansen, 1987);

SD (Ruiter, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

TX (Moulton & Stewart, 1997);

UT (Banks, 1914; Knowlton and Harmston, 1939; Baumann & Unzicker, 1981; Schefter & Wiggins, 1986; Nimmo, 1987; Metcalfe, Kennedy, Marks, Smith, & Muehlbauer, 2020);

WA (Smith, 1981; Schefter & Wiggins, 1986; Nimmo, 1987; Anderson & Wisseman, 1987; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013);

WY (Swegman & Ferrington, 1980; Ruiter & Lavigne, 1985; Schefter & Wiggins, 1986; Nimmo, 1987);

YT (Nimmo & Wickstrom, 1984; Schefter & Wiggins, 1986; Nimmo, 1987; Wiggins & Parker, 1997);

Mexico (Flint, 1967; Schefter & Wiggins, 1986; Nimmo, 1987).

Hydropsyche patera Schuster and Etnier, 1978, TN

larval head (Schuster & Etnier, 1978);  
 KY (Houp, 1999; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OH (Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 TN (Schuster & Etnier, 1978; Morse et al, 1997; Etnier, Baxter, Fraley, & Parker, 1998).

Hydropsyche phalerata Hagen, 1861, Canada, DC, PA;  
 larval head (Schuster & Etnier, 1978);  
 male & female midtibiae & tarsi (Deutsch, 1985);  
 male & female genitalia (Nimmo, 1987);  
 male genitalia (Houghton, 2012);  
 male head, male genitalia & sternum V (Korecki & Ruiter, 2009);  
 Canada (Hagen, 1861);  
 MD/VA (Flint & Butler, 1983);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris, 1987; Lago & Harris, 1987;  
     Harris, O'Neil, & Lago, 1991);  
 DC (Hagen, 1861);  
 DE (Lake, 1984);  
 FL (Flint, Voshell, & Parker, 1979; Nimmo, 1987; Pescador, Rasmussen, & Harris, 1995);  
 GA (Ross, 1944; Schuster & Etnier, 1978; Nimmo, 1987);  
 IA (Blinn, Ruiter, & Flint, 2009;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1944; Schuster & Etnier, 1978; Nimmo, 1987;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1944; Schuster & Etnier, 1978; Waltz & McCafferty, 1983; Nimmo, 1987;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Banks, 1894, not this species, Hamilton, Schuster, & DuBois, 1983; Schuster & Etnier, 1978;  
     Nimmo, 1987;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Ross, 1944; Resh, 1975; Schuster & Etnier, 1978; Nimmo, 1987;  
     Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Neves, 1979; Nimmo, 1987);  
 MD (Flint, Voshell, & Parker, 1979; Nimmo, 1987; Flint, 2008);  
 ME (Huryn & Harris, 2000);  
 MI (Ross, 1944; Leonard & Leonard, 1949; Schuster & Etnier, 1978; Nimmo, 1987;  
     Davis, Hudson, & Armitage, 1991;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Denning, 1943; Etnier, 1965; Schuster & Etnier, 1978; Nimmo, 1987; Ruiter, 1996;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Lago, Holzenthal, & Harris, 1982);  
 NC (Ross, 1944; Schuster & Etnier, 1978; Nimmo, 1987;  
     Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 ND (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NJ (Smith, 1890; Smith, 1900; Smith, 1910;  
     Schuster & Etnier, 1978; Nimmo, 1987);  
 NY (Banks, 1892; Schuster & Etnier, 1978; Bilger, 1986; Nimmo, 1987;  
     records doubted by Myers, Kondratieff, Mihuc, & Ruiter, 2011; Tozer, 2018);  
 OH (Ross, 1944; Schuster & Etnier, 1978; Huryn & Foote, 1983; Usis & MacLean, 1986;  
     Nimmo, 1987; Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Nimmo, 1987);

- PA (Hagen, 1861; Schuster & Etnier, 1978; Deutsch, 1984; Nimmo, 1987; Masteller & Flint, 1992);
- QC (Roy & Harper, 1979; Nimmo, 1987);
- TN (Ross, 1944; Schuster & Etnier, 1978; Etnier & Schuster, 1979; Nimmo, 1987; Etnier, Baxter, Fraley, & Parker, 1998);
- VA (Ross, 1938; Schuster & Etnier, 1978; Flint, Voshell, & Parker, 1979; Parker & Voshell, 1981; Nimmo, 1987; Flint, Hoffman, & Parker, 2004; Flint, 2011);
- WI (Ross, 1944; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Schuster & Etnier, 1978; Schmude & Hilsenhoff, 1986; Nimmo, 1987; Hilsenhoff, 1995; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- WV (Nugen & Tarter, 1983; Tarter, 1990; Tarter & Floyd, 2016).
- Hydropsyche philo Ross, 1941, CA;  
CA (Ross, 1941; Ross, 1951; McElravy & Resh, 1987; Jackson & Resh, 1989; Resh & Mendez, 2022);  
UT (Baumann & Unzicker, 1981);  
Mexico (Ross, 1951; Bueno-Soria & Flint, 1978).
- Hydropsyche piatrix Ross, 1938, MO;  
larval head (Schuster & Etnier, 1978);  
larval head, sternum IX, anal proleg (Schefter & Wiggins, 1986);  
male & female genitalia (Nimmo, 1987);
- AR (Ross, 1938; Unzicker, Aggus, & Warren, 1970; Schuster & Etnier, 1978; Schefter & Wiggins, 1986; Nimmo, 1987; Bowles & Mathis, 1989; Moulton & Stewart, 1996);
- MO (Ross, 1938; Schuster & Etnier, 1978; Schefter & Wiggins, 1986; Nimmo, 1987; Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- ND (Harris, 1977; Harris & Carlson, 1978; Nimmo, 1987; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- QC (Corbet, Schmid, & Augustin, 1966, probably a misidentification, Schuster & Etnier, 1978; Roy & Harper, 1975; Roy & Harper, 1979; Nimmo, 1987).
- Hydropsyche placoda Ross, 1941, WI;  
larval head, A9 sternum, anal legs (Schmude & Hilsenhoff, 1986);  
male & female genitalia (Nimmo, 1987);  
male genitalia (Houghton, 2012);
- AB (Nimmo, 1987);
- IA (Blinn, Ruiter, & Flint, 2009; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- IL (Ross, 1941; Nimmo, 1987; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- IN (Waltz & McCafferty, 1983; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MB (Nimmo, 1987);
- MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MN (Ross, 1941; Etnier, 1965; Nimmo, 1987; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MT (Ross, 1944; Roemhild, 1982; Nimmo, 1987);
- NY (Ross, 1941; Nimmo, 1987);
- OH (Garono & MacLean, 1988; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- ON (Ross, 1941; Munroe, 1951; Nimmo, 1987);
- PA (Masteller & Flint, 1992);
- QC (Nimmo, 1966; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1975; Roy & Harper, 1979; Nimmo, 1987);

SD (Ross, 1941; Nimmo, 1987;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
SK (Nimmo, 1987);  
TN (Edwards, 1966, uncertain record according to  
Etnier & Schuster, 1979, & Etnier, Baxter, Fraley, & Parker, 1998);  
WI (Ross, 1941; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973;  
Schmude & Hilsenhoff, 1986; Nimmo, 1987; Hilsenhoff, 1995;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).

Hydropsyche potomacensis Flint, 1965, VA;  
VA (Flint, 1965; Schuster & Etnier, 1978; Parker & Voshell, 1981;  
Flint, Hoffman, & Parker, 2004).

Hydropsyche protis Ross, 1938, UT;  
AZ (Ruiter, 1999);  
NV (Ruiter, Baumann, & Flint, 2014);  
UT (Ross, 1938; Baumann & Unzicker, 1981)  
WY (Ruiter, 1999).

Hydropsyche quitcupaha Korecki & Ruiter, 2009, UT;  
UT (Korecki & Ruiter, 2009).

Hydropsyche reciproca (Walker, 1852), Philopotamus, "North America?";  
Hydropsyche dubia Walker, 1852, "North America ?" (Milne, 1936;  
Nimmo, 1981);  
female genitalia (Nimmo, 1981);  
North America (Walker, 1852);  
CT (Britton, 1938).

Hydropsyche reiseni Denning, 1975, OK;  
OK (Denning, 1975; Bowles & Mathis, 1992).

Hydropsyche rossi Flint, Voshell, and Parker, 1979, MS;  
male & female genitalia (Nimmo, 1987);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
AL (Harris et al, 1983; Harris, Lago, & O'Neil, 1984;  
Harris, 1987; Lago & Harris, 1987;  
Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996;  
Hicks & Haynes, 2000a; Hicks & Haynes, 2000b; Harris & O'Neil, 2015);  
AR (Flint, Voshell, & Parker, 1979; Nimmo, 1987;  
Moulton & Stewart, 1996);  
FL (Ross, 1944; Flint, Voshell, & Parker, 1979; Nimmo, 1987;  
Pescador, Rasmussen, & Harris, 1995, 2004; Moulton & Stewart, 1996;  
Rasmussen, 2004; Zhou et al., 2011; Denson, Rasmussen, & Harris, 2016);  
GA (Flint, Voshell, & Parker, 1979; Nimmo, 1987; Moulton & Stewart, 1996;  
Murray-Stoker, Batzer, Murray-Stoker, & McHugh, 2020);  
IL (Ross, 1944; Flint, Voshell, & Parker, 1979; Nimmo, 1987; Moulton & Stewart, 1996;  
Zhou et al., 2011);  
IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996);  
KY (Flint, Voshell, & Parker, 1979; Nimmo, 1987;  
Moulton & Stewart, 1996; Houpp, 1999; Etnier, Bauer, & Zirkle, 2006;  
Floyd, Moulton, Schuster, Parker, & Robinson, 2012);  
LA (Banks, 1907, uncertain record; Flint, Voshell, & Parker, 1979;  
Lago, Holzenthal, & Harris, 1982; Moulton & Stewart, 1996; Zhou et al., 2011);  
MO (Flint, Voshell, & Parker, 1979; Nimmo, 1987; Moulton & Stewart, 1996; Bowles, 2020);  
MS (Flint, Voshell, and Parker, 1979;  
Lago, Holzenthal, & Harris, 1982; Nimmo, 1987;  
Moulton & Stewart, 1996);  
NC (Ross, 1944; Flint, Voshell, & Parker, 1979; Nimmo, 1987;  
Moulton & Stewart, 1996; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010;  
Zhou et al., 2011);

NY (Betten, 1936, unlikely record; Moulton & Stewart, 1996);  
 OH (Armitage et al., 2011);  
 OK (Bowles & Mathis, 1992; Moulton & Stewart, 1996;  
     Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006);  
 ON (Zhou et al., 2011);  
 SC (Flint, Voshell, & Parker, 1979; Cudney & Wallace, 1980;  
     Nimmo, 1987; Moulton & Stewart, 1996);  
 TN (Flint, Voshell, & Parker, 1979; Nimmo, 1987;  
     Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998;  
     Etnier, Bauer, & Zirkle, 2006);  
 TX (Flint, Voshell, & Parker, 1979; Moulton & Stewart, 1996;  
     Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997;  
     Bowles, Tiemann, & Easley, 2007);  
 VA (Flint, Voshell, & Parker, 1979; Parker & Voshell, 1981;  
     Nimmo, 1987; Hoffman & Parker, 1997;  
     Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004);  
 WV (Tarter & Floyd, 2016).  
*Hydropsyche rotosa* Ross, 1947, TN;  
     AL (Lago & Harris, 1987; Harris, 1990;  
         Harris, O'Neil, & Lago, 1991; Morse et al, 1997);  
     TN (Ross, 1947; Morse et al, 1997; Etnier, Baxter, Fraley, & Parker, 1998);  
     VA (Parker & Voshell, 1981; Morse et al, 1997; Flint, Hoffman, & Parker, 2004).  
*Hydropsyche scalaris* Hagen, 1861, Canada, DC;  
     larval head (Schuster & Etnier, 1978);  
     larva (Schuster, 1984);  
     larval A9 sternum, anal legs (Schmude & Hilsenhoff, 1986);  
     male & female genitalia (Nimmo, 1987);  
     male genitalia (Houghton, 2012);  
     Canada (Hagen, 1861);  
     MD/VA (Flint & Butler, 1983);  
     NC/SC (Unzicker, Resh, & Morse, 1982);  
     AL (Harris, Lago, & O'Neil, 1984; Lago & Harris, 1987;  
         Harris, 1990; Harris, O'Neil, & Lago, 1991;  
         Moulton & Stewart, 1996);  
     AR (Unzicker, Aggus, & Warren, 1970; Schuster & Etnier, 1978; Flint, Voshell, & Parker, 1979;  
         Hamilton & Schuster, 1979; Nimmo, 1987; Bowles & Mathis, 1989;  
         Moulton & Stewart, 1996; Bowles, Cheri, Usrey, & Williams, 2020);  
     CO (Dodds and Hisaw, 1925, record suspect; Nimmo, 1987);  
     CT (Britton, 1938; Nelson & Downs, 1995);  
     DC (Hagen, 1861; Moulton & Stewart, 1996);  
     DE (Lake, 1984; Moulton & Stewart, 1996);  
     FL (Betten, 1934, record suspect);  
     GA (Ross, 1944; Schuster & Etnier, 1978;  
         Flint, Voshell, & Parker, 1979; Hamilton & Schuster, 1979;  
         Hamilton & Schuster, 1979; Nimmo, 1987;  
         Moulton & Stewart, 1996);  
     IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
     IL (Nimmo, 1987; Moulton & Stewart, 1996;  
         Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
     IN (Ross, 1944; Schuster & Etnier, 1978; Flint, Voshell, & Parker, 1979;  
         Hamilton & Schuster, 1979; Waltz & McCafferty, 1983; Nimmo, 1987;  
         Moulton & Stewart, 1996;  
         Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
     KS (Banks, 1892, record suspect; Hamilton & Schuster, 1979; Nimmo, 1987;  
         Moulton & Stewart, 1996);



Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MB (Neave, 1934, record suspect; Flannagan, 1978, record suspect;  
Flannagan & Flannagan, 1982, record suspect; Nimmo, 1987;  
Moulton & Stewart, 1996);

MD (Banks, 1904, record suspect; Flint, Voshell, & Parker, 1979;  
Nimmo, 1987; Moulton & Stewart, 1996; Flint, 2008);

ME (Blickle & Morse, 1966; Schuster & Etnier, 1978;  
Flint, Voshell, & Parker, 1979; Hamilton & Schuster, 1979;  
Nimmo, 1987; Moulton & Stewart, 1996);

MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MN (Denning, 1943, record suspect; Etnier, 1965;  
Schuster & Etnier, 1978; Flint, Voshell, & Parker, 1979;  
Hamilton & Schuster, 1979; Nimmo, 1987; Ruitter, 1996; Moulton & Stewart, 1996;  
Houghton, Holzenthal, Monson, & MacLean, 2001; Zhou et al., 2011; Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MO (Ross, 1944; Schuster & Etnier, 1978; Flint, Voshell, & Parker, 1979;  
Hamilton & Schuster, 1979; Nimmo, 1987; Mathis & Bowles, 1992;  
Moulton & Stewart, 1996; Ferro & Sites, 2007;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

NC (Banks, 1908, record suspect; Nimmo, 1987;  
Moulton & Stewart, 1996; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);

NE (Harris, Kondratieff, & Boyle, 2000;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

NJ (Smith, 1890; Smith, 1900, Smith, 1910, records suspect; Nimmo, 1987;  
Moulton & Stewart, 1996);

NM (Banks, 1904, record suspect; Nimmo, 1987);

NY (Betten, 1901, Betten, 1926, records suspect; Bilger, 1986, record suspect;  
Flint, Voshell, & Parker, 1979; Tozer, 2018;  
Nimmo, 1987; Moulton & Stewart, 1996; Myers, Kondratieff, Mihuc, & Ruitter, 2011);

OH (Masteller & Flint, 1979; MacLean & MacLean, 1980; Huryn & Foote, 1983;  
MacLean & MacLean, 1984; Nimmo, 1987; Garono & MacLean, 1988;  
Moulton & Stewart, 1996; Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

OK (Ross, 1944; Schuster & Etnier, 1978; Flint, Voshell, & Parker, 1979;  
Hamilton & Schuster, 1979; Nimmo, 1987; Bowles & Mathis, 1992;  
Moulton & Stewart, 1996;  
Zuellig, Kondratieff, Schmidt, Durfee, Ruitter, & Prather, 2006);

ON (Ross, 1944; Schuster & Etnier, 1978; Mackay, 1979;  
Flint, Voshell, & Parker, 1979; Hamilton & Schuster, 1979;  
Nimmo, 1987; Zhou et al., 2011);

PA (Masteller & Flint, 1979; Nimmo, 1987; Masteller & Flint, 1992;  
Moulton & Stewart, 1996);

QC (Robert, 1958; Nimmo, 1966; Corbet, 1966;  
Corbet, Schmid, & Augustin, 1966; Schuster & Etnier, 1978;  
Roy & Harper, 1979; Flint, Voshell, & Parker, 1979;  
Hamilton & Schuster, 1979; Nimmo, 1987;  
Moulton & Stewart, 1996; Zhou et al., 2011);

SC (Zhou et al., 2011);

TN (Edwards, 1956; Edwards, 1966, records suspect;  
Schuster & Etnier, 1978; Hamilton & Schuster, 1979;  
Nimmo, 1987; Moulton & Stewart, 1996);

TX (Edwards, 1973; Flint, Voshell, & Parker, 1979; Nimmo, 1987;  
Moulton & Stewart, 1996;  
unconfirmed or dubious according to Moulton & Stewart, 1997);

- VA (Banks, 1904, record suspect; Flint, Voshell, & Parker, 1979; Parker & Voshell, 1981; Nimmo, 1987; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004; Zhou et al., 2011; Flint, 2011);
- VT (Wimmer, 1979);
- WI (Ross, 1944; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Schuster & Etnier, 1978; Flint, Voshell, & Parker, 1979; Hamilton & Schuster, 1979; Schmude & Hilsenhoff, 1986; Nimmo, 1987; Lillie & Hilsenhoff, 1992; Hilsenhoff, 1995; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- WV (Tarter & Hill, 1979; Nugen & Tarter, 1983; Tarter, 1990; Moulton & Stewart, 1996; Zhou et al., 2011; Tarter & Floyd, 2016);
- WY (Muttkowski, 1929, record suspect; Moulton & Stewart, 1996).
- Hydropsyche simulans Ross, 1938, IL;  
 phallus (Ross & Unzicker, 1977; Schuster, 1984);  
 larva (Schuster & Etnier, 1978);  
 net (Rhame & Stewart, 1976);  
 forewing (Schuster, 1984);  
 male & female genitalia (Nimmo, 1987);  
 maxillary palp, male genitalia, & photo of adult (Houghton, 2012);
- AL (Lago & Harris, 1987; Harris, 1990; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);
- AR (Unzicker, Aggus & Warren, 1970; Nimmo, 1987; Bowles & Mathis, 1989; Moulton & Stewart, 1996; Zhou et al., 2011; Bowles, Cheri, Usrey, & Williams, 2020);
- CO (Herrmann, Ruiter, & Unzicker, 1986; Moulton & Stewart, 1996; Zuellig, Heinold, Kondratieff, & Ruiter, 2012);
- FL (Mattson, Epler, & Hein, 1995);
- IA (Ross, 1938; Schuster & Etnier, 1978; Moulton & Stewart, 1996; Blinn, Ruiter, & Flint, 2009; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- IL (Ross, 1938; Schuster & Etnier, 1978; Hamilton & Schuster, 1979; Nimmo, 1987; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- IN (Ross, 1938; Schuster & Etnier, 1978; Hamilton & Schuster, 1979; Waltz & McCafferty, 1983; Bright, 1986; Nimmo, 1987; Moulton & Stewart, 1996; Simon, Morris, Robb, & McCoy, 2015; DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- KS (Ross, 1944; Schuster & Etnier, 1978; Hamilton & Schuster, 1979; Nimmo, 1987; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- KY (Ross, 1944; Resh, 1975; Schuster & Etnier, 1978; Hamilton & Schuster, 1979; Nimmo, 1987; Moulton & Stewart, 1996; Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MA (Bilger, 1986, probably erroneous, Flint, pers comm; Moulton & Stewart, 1996);
- MB (Harris & Lawrence, 1978; Moulton & Stewart, 1996);
- MI (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Zhou et al., 2011; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MN (Denning, 1943; Etnier, 1965; Schuster & Etnier, 1978; Lager, Johnson, Williams, & McCullough, 1979; Hamilton & Schuster, 1979; Moulton & Stewart, 1996; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton & Holzenthal, 2010; Zhou et al., 2011; Houghton, 2012; Houghton & Lardner, 2020; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MO (Ross, 1944; Schuster & Etnier, 1978; Hamilton & Schuster, 1979; Mathis & Bowles, 1992;

- Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Lago, Holzenthal, & Harris, 1982; Moulton & Stewart, 1996);  
 MT (Roemhild, 1982; Nimmo, 1987; Moulton & Stewart, 1996);  
 NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 ND (Harris & Carlson, 1978; Nimmo, 1987; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NE (Nimmo, 1987; Moulton & Stewart, 1996; Harris, Kondratieff, & Boyle, 2000;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OH (Denning, 1943; Schuster & Etnier, 1978; Hamilton & Schuster, 1979; Huryn & Foote, 1983;  
 Usis & MacLean, 1986; Nimmo, 1987; Garono & MacLean, 1988;  
 Moulton & Stewart, 1996; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Denning, 1943; Schuster & Etnier, 1978;  
 Hamilton & Schuster, 1979; Nimmo, 1987;  
 Bowles & Mathis, 1992; Moulton & Stewart, 1996;  
 Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006);  
 ON (Nimmo, 1987; Moulton & Stewart, 1996);  
 SC (Biondi, 2011);  
 TN (Ross, 1944; Edwards, 1955; Edwards, 1956; Edwards, 1966;  
 Schuster & Etnier, 1978; Etnier & Schuster, 1979;  
 Hamilton & Schuster, 1979; Nimmo, 1987;  
 Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998;  
 DeWalt & Heinold, 2005; Zhou et al., 2011);  
 TX (Cloud & Stewart, 1974; Rhame & Stewart, 1976;  
 Schuster & Etnier, 1978; Hamilton & Schuster, 1979;  
 Nimmo, 1987; Moulton, Beitinger, Stewart, & Currie, 1993;  
 Moulton & Stewart, 1996; Moulton & Stewart, 1997;  
 Bowles, Tiemann, & Easley, 2007; Zhou et al., 2011);  
 WI (Ross, 1938; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Shapas & Hilsenhoff, 1976;  
 Schuster & Etnier, 1978; Hamilton & Schuster, 1979; Schmude & Hilsenhoff, 1986;  
 Narf, 1985; Lillie & Hilsenhoff, 1992; Hilsenhoff, 1995; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Nugen & Tarter, 1983; Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016);  
 WY (Ross, 1963; Ruiter & Lavigne, 1985;  
 Moulton & Stewart, 1996).  
 Hydropsyche slossonae Banks, 1905, NH;  
 male & female genitalia (Ross, 1944);  
 larval head (Mackay, 1978; Schuster & Etnier, 1978;  
 Schmude & Hilsenhoff, 1986);  
 male genitalia (Marshall & Larson, 1982);  
 larva (Schuster, 1984);  
 pupa (Rutherford, 1985);  
 larval head, thorax, hindtrochanter & femur, sternum IX, anal  
 proleg (Scheffer & Wiggins, 1986);  
 male & female genitalia (Nimmo, 1987);  
 male genitalia (Houghton, 2012);  
 GA/NC/SC (Gordon & Wallace, 1975);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AB (Scheffer & Wiggins, 1986; Nimmo, 1987; Moulton & Stewart, 1996; Zhou et al., 2011);  
 AR (Unzicker, Aggus, & Warren, 1970; Schuster & Etnier, 1978; Scheffer & Wiggins, 1986;  
 Nimmo, 1987; Bowles & Mathis, 1989; Moulton & Stewart, 1996; Bowles, 2020;);  
 BC (Nimmo & Scudder, 1983; Scheffer & Wiggins, 1986; Nimmo, 1987;  
 Moulton & Stewart, 1996);  
 CO (Scheffer & Wiggins, 1986; Ruiter, 1990);

Moulton & Stewart, 1996);  
 CT (Nelson, 1987; Nelson & Downs, 1995; Moulton & Stewart, 1996);  
 DE (Lake, 1984; Moulton & Stewart, 1996);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1944; Schuster & Etnier, 1978; Nimmo, 1987; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Bright, 1986; Moulton & Stewart, 1996;  
 Runde & Hellenthal, 2000;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Thoeny & Batch, 1983; Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LB (Nimmo, 1987; Moulton & Stewart, 1996);  
 MA (Neves, 1979; Bilger, 1986; Nimmo, 1987;  
 Moulton & Stewart, 1996);  
 MB (Flannagan, 1978; Flannagan & Cobb, 1981;  
 Flannagan & Flannagan, 1982; Schefter & Wiggins, 1986;  
 Moulton & Stewart, 1996; Zhou et al., 2011);  
 ME (Blickle & Morse, 1966; Schuster & Etnier, 1978; Nimmo, 1987;  
 Moulton & Stewart, 1996);  
 MI (Ross, 1944; Ellis, 1962; Petersen & Cummins, 1974; Schuster & Etnier, 1978; Nimmo, 1987;  
 Moulton & Stewart, 1996; Yanoviak & McCafferty, 1996;  
 Houghton, Brandin, & Brakel, 2011; Zhou et al., 2011;  
 Wright, Pytel, & Houghton, 2013; Houghton & Shoup, 2014;  
 Brakel, Wassink, & Houghton, 2015; DeWalt & South, 2015; Houghton, 2015;  
 Houghton, 2016;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Denning, 1943; Etnier, 1965; Schuster & Etnier, 1978;  
 Lager, Johnson, Williams, & McCullough, 1979; Schefter & Wiggins, 1986;  
 Waters, 1987; Nimmo, 1987; MacLean, 1995; Moulton & Stewart, 1996; Monson, 1997;  
 Harris, Kondratieff, & Boyle, 2000;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton & Holzenthal, 2010;  
 Zhou et al., 2011; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Roemhild, 1982; Schefter & Wiggins, 1986; Nimmo, 1987; Moulton & Stewart, 1996;  
 Stagliano, 2020);  
 NB (Schefter & Wiggins, 1986; Nimmo, 1987;  
 Moulton & Stewart, 1996);  
 NC (Brimley, 1938; Schuster & Etnier, 1978; Ross & Wallace, 1982;  
 Armitage & Tennessen, 1984; Schefter & Wiggins, 1986;  
 Nimmo, 1987; Morse, Hamilton, & Hoffman, 1989;  
 Moulton & Stewart, 1996; Floyd, Morse, & Harris, 1997;  
 DeWalt, Jacobus, & McCafferty, 2007;  
 Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 ND (Harris & Carlson, 1978; Schefter & Wiggins, 1986; Nimmo, 1987;  
 Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Banks, 1908; Schuster & Etnier, 1978; Marshall & Larson, 1982;  
 Nimmo, 1987; Moulton & Stewart, 1996);  
 NH (Banks, 1905; Schuster & Etnier, 1978; Moulton & Stewart, 1996);  
 NJ (Schefter & Wiggins, 1986; Moulton & Stewart, 1996);

- NS (Nimmo, 1987; Moulton & Stewart, 1996; Zhou et al., 2011);
- NT (Nimmo, 1981; Nimmo, 1986; Nimmo, 1987;  
Moulton & Stewart, 1996);
- NY (Ross, 1944; Schuster & Etnier, 1978; McCabe, 1986;  
Schefter & Wiggins, 1986; Bilger, 1986; Nimmo, 1987;  
Moulton & Stewart, 1996; Myers, Kondratieff, Mihuc, & Ruiter, 2011; Tozer, 2018);
- OH (McElravy, Arsuffi, & Foote, 1977; Petersen & Foote, 1980; Huryn & Foote, 1983;  
MacLean & MacLean, 1984; Usis & MacLean, 1986; Schefter & Wiggins, 1986;  
Nimmo, 1987; Garono & MacLean, 1988; Moulton & Stewart, 1996;  
Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- ON (Mackay, 1978; Rutherford & Mackay, 1985;  
Rutherford & Mackay, 1986a; Rutherford & Mackay, 1986b;  
Schefter & Wiggins, 1986; Rutherford, 1986; Nimmo, 1987;  
Moulton & Stewart, 1996);
- PA (Ross, 1941; Schuster & Etnier, 1978;  
Swegman, Walker, & Sykora, 1981; Schefter & Wiggins, 1986;  
Nimmo, 1987; Masteller & Flint, 1992;  
Moulton & Stewart, 1996; Bradt & Ruggiero, 2017);
- QC (Roy & Harper, 1975; Roy & Harper, 1979; Schefter & Wiggins, 1986; Nimmo, 1987;  
Harper, 1989; Moulton & Stewart, 1996);
- SC (Schefter & Wiggins, 1986; Morse, Hamilton, & Hoffman, 1989;  
Moulton & Stewart, 1996; Floyd, Morse, & Harris, 1997; Zhou et al., 2011);
- SD (Zhou et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- SK (Ross, 1944; Schuster & Etnier, 1978; Schefter & Wiggins, 1986;  
Nimmo, 1987; Moulton & Stewart, 1996);
- TN (Edwards, 1966; Schuster & Etnier, 1978;  
Etnier & Schuster, 1979; Nimmo, 1987;  
Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998;  
DeWalt & Heinold, 2005; Etnier, Bauer, & Zirkle, 2006; Zhou et al., 2011);
- VA (Schuster & Etnier, 1978; Parker & Voshell, 1981;  
Schefter & Wiggins, 1986; Nimmo, 1987;  
Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004; Zhou et al., 2011);
- VT (Wimmer, 1979; Bilger, 1986; Schefter & Wiggins, 1986;  
Nimmo, 1987; Moulton & Stewart, 1996);
- WI (Ross, 1944; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
Shapas & Hilsenhoff, 1976; Schuster & Etnier, 1978; Karl & Hilsenhoff, 1979;  
Schmude & Hilsenhoff, 1986; Nimmo, 1987; Hilsenhoff, 1995; Hilsenhoff, 1996;  
Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- WV (Nugen & Tarter, 1983; Schefter & Wiggins, 1986; Nimmo, 1987;  
Moulton & Stewart, 1996; Tarter & Floyd, 2016);
- WY (Ruiter & Lavigne, 1985; Moulton & Stewart, 1996).
- Hydropsyche sparna Ross, 1938, MI;  
male & female genitalia (Ross, 1944);  
larval head (Schuster & Etnier, 1978; Mackay, 1978;  
Schmude & Hilsenhoff, 1986);  
male genitalia (Marshall & Larson, 1982);  
pupa (Rutherford, 1985);  
photos of larval pronotal seta 22, parietal truncate peg setae;  
larval head, pronotum, legs, sternum IX, anal proleg  
(Schefter & Wiggins, 1986);  
male & female genitalia (Nimmo, 1987);  
male genitalia (Houghton, 2012);

GA/NC (Wallace, Webster, & Woodall, 1977);  
 GA/NC/SC (Gordon & Wallace, 1975);  
 GA/SC (Wallace, 1975; Hudson & Nichols, 1986);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Schuster & Etnier, 1978; Harris et al, 1983;  
     Harris, Lago, & O'Neil, 1984; Lago & Harris, 1987;  
     Harris, 1987; Nimmo, 1987; Frazer, Harris, & Ward, 1991;  
     Harris, O'Neil, & Lago, 1991; Hicks & Haynes, 2000a);  
 CT (Bilger, 1986; Nimmo, 1987; Nelson, 1987; Nelson & Downs, 1995);  
 DE (Lake, 1984);  
 GA (Ross, 1944; Schuster & Etnier, 1978; Benke & Wallace, 1980;  
     Schefter & Wiggins, 1986; Nimmo, 1987;  
     Frazer, Harris, & Ward, 1991; );  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Schefter & Wiggins, 1986;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Bright, 1986; Runde & Hellenthal, 2000;  
     DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton, Schuster, & DuBois, 1983;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Schuster & Etnier, 1978; Nimmo, 1987; Phillippi & Schuster, 1987;  
     Floyd & Schuster, 1990; Etnier, Bauer, & Zirkle, 2006;  
     Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LB (Nimmo, 1987);  
 MA (Neves, 1979; Bilger, 1986; Nimmo, 1987; Whitmore 2008);  
 MB (Flannagan & Flannagan, 1982; Schefter & Wiggins, 1986; Nimmo, 1987);  
 MD (Flint, 2008);  
 ME (Blickle & Morse, 1966; Schuster & Etnier, 1978; Mingo & Gibbs, 1980; Bilger, 1986;  
     Schefter & Wiggins, 1986; Nimmo, 1987; Huryn & Harris, 2000);  
 MI (Ross, 1938; Schuster & Etnier, 1978; Schefter & Wiggins, 1986; Nimmo, 1987;  
     Yanoviak & McCafferty, 1996; Houghton, Brandin, & Brakel, 2011; Zhou et al., 2011;  
     Wright, Pytel, & Houghton, 2013; Brakel, Wassink, & Houghton, 2015;  
     Houghton, 2015; Houghton, 2016;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
     Houghton & Lardner, 2020; Houghton, 2022;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Denning, 1943; Etnier, 1965; Schuster & Etnier, 1978; Schefter & Wiggins, 1986;  
     Nimmo, 1987; MacLean, 1995; Houghton, Holzenthal, Monson, & MacLean, 2001;  
     Houghton & Holzenthal, 2010; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Lago, Holzenthal, & Harris, 1982);  
 NB (Nimmo, 1987; Zhou et al., 2011);  
 NC (Howell, 1939; Schuster & Etnier, 1978;  
     Penrose, Lenat, & Eagleson, 1982; Ross & Wallace, 1982;  
     Armitage & Tennessen, 1984; Schefter & Wiggins, 1986;  
     Nimmo, 1987; Morse, Hamilton, & Hoffman, 1989; Floyd, Morse, & Harris, 1997;  
     DeWalt, Jacobus, & McCafferty, 2007;  
     Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010; Park, 2018);  
 NF (Marshall & Larson, 1982; Schefter & Wiggins, 1986; Nimmo, 1987; Zhou et al., 2011;  
     Cordero, Sánchez-Ramírez, & Currie, 2017);  
 NH (Morse and Blickle, 1953; Nimmo, 1987);  
 NJ (Zhou et al., 2011);  
 NS (Ross, 1944; Schuster & Etnier, 1978; Nimmo, 1987; Zhou et al., 2011);

- NY (Ross, 1938; Schuster & Etnier, 1978; Bilger, 1986; Schefter & Wiggins, 1986; Nimmo, 1987; Zhou et al., 2011; Myers, Kondratieff, Mihuc, & Ruiter, 2011; Tozer, 2018);
- OH (McElravy, Arsuffi, & Foote, 1977; Petersen & Foote, 1980; Huryn & Foote, 1983; Nimmo, 1987; Garono & MacLean, 1988; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- ON (Ross, 1944; Williams & Hynes, 1973; Mackay, 1978; Schuster & Etnier, 1978; Rutherford, 1985; Rutherford, 1986; Rutherford & Mackay, 1985; Rutherford & Mackay, 1986a; Rutherford & Mackay, 1986b; Schefter & Wiggins, 1986; Nimmo, 1987; Williams, Tavares, & Bryant, 1987; Harper, 1989; Blades & Marshall, 1994; Zhou et al., 2011);
- PA (Masteller & Flint, 1979; Masteller & Flint, 1984; Schefter & Wiggins, 1986; Nimmo, 1987; Masteller & Flint, 1992; Bradt & Ruggiero, 2017);
- PE (Nimmo, 1987);
- QC (Robert, 1958; Roy & Harper, 1975; Roy & Harper, 1979; Williams & Williams, 1979; Schefter & Wiggins, 1986; Nimmo, 1987; Harper, 1989);
- SC (Ross, 1944; Schuster & Etnier, 1978; Morse, Chapin, Herlong & Harvey, 1980; Friedländer & Morse, 1982; Nimmo, 1987; Morse, Hamilton, & Hoffman, 1989; Floyd & Morse, 1993; Floyd, Morse, & Harris, 1997);
- TN (Ross, 1938, Schuster & Etnier, 1978; Etnier & Schuster, 1979; Schefter & Wiggins, 1986; Nimmo, 1987; Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005; Etnier, Bauer, & Zirkle, 2006; DeWalt, Jacobus, & McCafferty, 2007; Zhou et al., 2011);
- VA (Ross, 1944; Schuster & Etnier, 1978; Parker & Voshell, 1981; Parker & Voshell, 1982; Parker & Voshell, 1983; Schefter & Wiggins, 1986; Nimmo, 1987; Flint, Hoffman, & Parker, 2004; Zhou et al., 2011; Flint, 2011);
- VT (Wimmer, 1979; Schefter & Wiggins, 1986; Bilger, 1986; Nimmo, 1987; Zhou et al., 2011);
- WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Schuster & Etnier, 1978; Steven & Hilsenhoff, 1984; Narf, 1985; Schmude & Hilsenhoff, 1986; Schefter & Wiggins, 1986; Nimmo, 1987; Hilsenhoff, 1995; Hilsenhoff, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- WV (Ross, 1944; Hill & Tarter, 1978; Schuster & Etnier, 1978; Tarter & Hill, 1979; Nugen & Tarter, 1983; Schefter & Wiggins, 1986; Nimmo, 1987; Tarter, 1990; Griffith & Perry, 1992; Tarter & Floyd, 2016).
- Hydropsyche tana Ross, 1938, MT;  
 larval frontoclypeus (Schefter & Wiggins, 1986);  
 male & female genitalia (Nimmo, 1987);
- BC (Nimmo & Scudder, 1983; Schefter & Wiggins, 1986; Nimmo, 1987);
- CA (Schefter & Wiggins, 1986; Resh & Mendez, 2022);
- ID (Smith, 1969; Schefter & Wiggins, 1986; Nimmo, 1987);
- MT (Ross, 1938; Newell, 1970; Newell & Potter, 1973; Roemhild, 1982; Schefter & Wiggins, 1986; Nimmo, 1987);
- NV (Ruiter, Baumann, & Flint, 2014);
- OR (Kraft, 1963, misidentification, Anderson & Hansen, 1987).
- Hydropsyche valanis Ross, 1938, IL;  
 larval head (Schuster & Etnier, 1978);  
 male & female genitalia (Nimmo, 1987);

- IA (Ross, 1938; Schuster & Etnier, 1978; Nimmo, 1987; Blinn, Ruiter, & Flint, 2009; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- IL (Ross, 1938; Harris, 1971; Schuster & Etnier, 1978; Nimmo, 1987; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- IN (Ross, 1938; Schuster & Etnier, 1978; Waltz & McCafferty, 1983; Nimmo, 1987; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- KS (Hamilton, Schuster, & DuBois, 1983; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- KY (Resh, 1975; Schuster & Etnier, 1978; Nimmo, 1987; Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MI (Davis, Hudson, & Armitage, 1991; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MN (Ross, 1944; Etnier, 1965; Schuster & Etnier, 1978; Nimmo, 1987; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- NY (Bilger, 1986, record suspect, Flint, pers comm; Myers, Kondratieff, Mihuc, & Ruiter, 2011);
- OH (Schuster & Etnier, 1978; Huryn & Foote, 1983; MacLean & MacLean, 1984; Usis & MacLean, 1986; Nimmo, 1987; Garono & MacLean, 1988; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- PA (Masteller & Flint, 1992);
- VT (Bilger, 1986, record suspect, Flint, pers comm);
- WI (Ross, 1938; Schuster & Etnier, 1978; Nimmo, 1987);
- WV (Tarter & Floyd, 2016).
- Hydropsyche vanaca Denning, 1965, NM;  
female genitalia (Ruiter & Blinn, 2009);  
AZ (Ruiter & Blinn, 2009);  
NM (Denning, 1965; Vieira, Kondratieff, Ruiter, & Durfee, 2009).
- Hydropsyche venada Ross, 1941, AZ;  
larval head (Schefter & Wiggins, 1986);  
female genitalia (Ruiter & Blinn, 2009);  
AZ (Ross, 1941; Schefter & Wiggins, 1986;  
Moulton, Stewart, & Young, 1994; Ruiter, 1996;  
Houghton, 2001; Blinn & Ruiter, 2006; Blinn & Ruiter, 2009a; Blinn & Ruiter, 2009b);  
NM (Ross, 1941; Schefter & Wiggins, 1986; Ruiter, 1996);  
NV (Schefter & Wiggins, 1986; Ruiter, Baumann, & Flint, 2014).
- Hydropsyche ventura Ross, 1941, ON;  
larval head (Schuster & Etnier, 1978);  
larval head, abdominal gill, male & female genitalia  
(Schefter & Wiggins, 1986);  
male & female genitalia (Nimmo, 1987);  
CT (Nelson, 1987; Nelson & Downs, 1995);  
KY (Phillippi & Schuster, 1987; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MA (Neves, 1979; Nugen & Tarter, 1983; Nimmo, 1987);  
ME (Blickle & Morse, 1966; Etnier, 1973; Nugen & Tarter, 1983;  
Schefter & Wiggins, 1986; Nimmo, 1987);  
MN (Phillippi & Schuster, 1987, doubtful identification according  
to Houghton, Holzenthal, Monson, & MacLean, 2001);  
NC (Lenat & Penrose, 1987; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Park, 2018);  
NF (Schuster & Etnier, 1978; Nugen & Tarter, 1983; Nimmo, 1987);  
NY (Schuster & Etnier, 1978; Nugen & Tarter, 1983; Nimmo, 1987;  
Myers, Kondratieff, Mihuc, & Ruiter, 2011; Tozer, 2018);  
OH (Armitage et al., 2011);



Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Ross, 1941; Schuster & Etnier, 1978;  
 Singh, Smith, & Harrison, 1984a; Schefter & Wiggins, 1986;  
 Nimmo, 1987);  
 PA (Masteller & Flint, 1980; Schmid, 1984; Nugen & Tarter, 1983;  
 Schefter & Wiggins, 1986; Nimmo, 1987;  
 Phillippi & Schuster, 1987; Masteller & Flint, 1992);  
 QC (Roy & Harper, 1979; Schefter & Wiggins, 1986; Nimmo, 1987);  
 TN (Etnier, 1973; Schuster & Etnier, 1978;  
 Etnier & Schuster, 1979; Nugen & Tarter, 1983;  
 Schefter & Wiggins, 1986; Nimmo, 1987; Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Schuster & Etnier, 1978; Parker & Voshell, 1981;  
 Nugen & Tarter, 1983; Schefter & Wiggins, 1986;  
 Nimmo, 1987; Flint, Hoffman, & Parker, 2004);  
 VT (Bilger, 1986);  
 WV (Nugen & Tarter, 1983; Schefter & Wiggins, 1986;  
 Phillippi & Schuster, 1987; Tarter, 1990;  
 Griffith & Perry, 1992; Tarter & Floyd, 2016).  
*Hydropsyche venularis* Banks, 1914, DC;  
 larval head (Schuster & Etnier, 1978);  
 net (Wallace, 1975);  
 male & female genitalia (Nimmo, 1987);  
 GA/NC/SC (Gordon & Wallace, 1975);  
 GA/SC (Wallace, 1975; Hudson & Nichols, 1986);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris, Lago, & O'Neil, 1984; Harris, 1987;  
 Lago & Harris, 1987; Frazer, Harris, & Ward, 1991;  
 Harris, O'Neil, & Lago, 1991; Hicks & Haynes, 2000a);  
 CT (Bilger, 1986, record suspect, Flint, pers comm);  
 DC (Banks, 1914; Schuster & Etnier, 1978);  
 GA (Wallace, 1975; Nimmo, 1987);  
 IN (Bright, 1986);  
 KY (Resh, 1975; Schuster & Etnier, 1978; Nimmo, 1987;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MD (Nimmo, 1987);  
 MO (Banks, 1914, record suspect; Schuster & Etnier, 1978; Nimmo, 1987;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Etnier, 1973; Schuster & Etnier, 1978; Nimmo, 1987;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);  
 NY (Betten, 1926, record suspect; Schuster & Etnier, 1978;  
 Bilger, 1986; Nimmo, 1987; Myers, Kondratieff, Mihuc, & Ruiter, 2011; Tozer, 2018);  
 PA (Masteller & Flint, 1992);  
 SC (Flint, Voshell, & Parker 1979; Nimmo, 1987;  
 Morse, Hamilton, & Hoffman, 1989);  
 TN (Etnier, 1973; Schuster & Etnier, 1978; Nimmo, 1987; Etnier, Baxter, Fraley, & Parker, 1998;  
 Zhou et al., 2011);  
 VA (Banks, 1914, record suspect; Schuster & Etnier, 1978;  
 Flint, Voshell, & Parker, 1979; Parker & Voshell, 1979;  
 Parker & Voshell, 1981; Parker & Voshell, 1982;  
 Parker & Voshell, 1983; Nimmo, 1987;  
 Hoffman & Parker, 1997; Flint, Hoffman, & Parker, 2004; Zhou et al., 2011);  
 VT (Bilger, 1986, record suspect, Flint, pers comm);  
 WI (Banks, 1914, record suspect; Schuster & Etnier, 1978;  
 Nimmo, 1987);

WV (Tarter, 1990; Tarter & Floyd, 2016).

Hydropsyche vexa Ross, 1938, WI;  
 larval head, pronotum, midtrochanter & femur  
 (Schefter & Wiggins, 1986);  
 male & female genitalia (Nimmo, 1987);  
 male genitalia (Houghton, 2012);  
 photos of larva, head, pronotum, procoxa (Ruiter, Boyle, & Zhou, 2013);  
 AB (Schefter & Wiggins, 1986; Nimmo, 1987);  
 ID (Schefter & Wiggins, 1986);  
 MB (Denning, 1943; Flannagan & Flannagan, 1982;  
 Schefter & Wiggins, 1986; Nimmo, 1987;  
 Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruiter, Boyle, & Zhou, 2013);  
 ME (Blickle & Morse, 1966; Nimmo, 1987);  
 MI (Leonard and Leonard, 1949; Nimmo, 1987; Houghton, 2016;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Denning, 1943; Etnier, 1965; Schefter & Wiggins, 1986; Nimmo, 1987; Monson, 1997;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NB (Nimmo, 1987);  
 ND (Denning, 1943; Nimmo, 1987;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NH (Morse and Blickle, 1953; Nimmo, 1987);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 QC (Nimmo, 1966; Nimmo, 1987; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1979);  
 SK (Schefter & Wiggins, 1986; Nimmo, 1987);  
 VT (Wimmer, 1979);  
 WI (Ross, 1938; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
 Schmude & Hilsenhoff, 1986; Schefter & Wiggins, 1986; Nimmo, 1987;  
 Hilsenhoff, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).

Hydropsyche walkeri Betten and Mosely, 1940, ON;  
 Hydropsyche maculicornis Walker, 1852, Canada (preoccupied by  
 FJ Pictet, 1834, now in Tinodes);  
 male & female genitalia in copulo (Unzicker, 1968);  
 larval head (Schuster & Etnier, 1978; Smith & Lehmkuhl, 1980a);  
 photos of larval parietal truncate peg and hairlike setae; larval  
 head, sternum IX, anal proleg (Schefter & Wiggins, 1986);  
 male & female genitalia (Nimmo, 1987);  
 male genitalia (Houghton, 2012);  
 near NC/SC (Unzicker, Resh, & Morse, 1982);  
 AB (Schefter & Wiggins, 1986);  
 CT (Nelson & Downs, 1995);  
 DE (Lake, 1984);  
 MA (Neves, 1979; Nimmo, 1987);  
 MB (Flannagan, 1978; Flannagan & Flannagan, 1982; Nimmo, 1987);  
 ME (Blickle & Morse, 1966; Mingo & Gibbs, 1980; Bilger, 1986;  
 Schefter & Wiggins, 1986; Nimmo, 1987);  
 MI (Leonard and Leonard, 1949; Nimmo, 1987; Yanoviak & McCafferty, 1996;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Schuster & Etnier, 1978; Schefter & Wiggins, 1986; Nimmo, 1987;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012);

Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 ND (Harris, Lago, & Harris, 1980; Nimmo, 1987;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NH (Morse and Blickle, 1953; Nimmo, 1987);  
 NY (Ross, 1944; Schuster & Etnier, 1978; Nimmo, 1987;  
 Myers, Kondratieff, Mihuc, & Ruiter, 2011; Tozer, 2018);  
 OH (McElravy, Arsuffi, & Foote, 1977; Huryn & Foote, 1983; Usis & MacLean, 1986;  
 Nimmo, 1987; Garono & MacLean, 1988; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Betten and Mosely, 1940; Schuster & Etnier, 1978;  
 Schefter & Wiggins, 1986; Nimmo, 1987; Harper, 1989);  
 PA (Masteller & Flint, 1992);  
 QC (Ross, 1944; Robert, 1958; Corbet, Schmid, & Augustin, 1966;  
 Roy & Harper, 1975; Schuster & Etnier, 1978;  
 Roy & Harper 1979; Nimmo, 1987; Harper, 1989);  
 SK (Smith & Lehmkuhl, 1980a; Nimmo, 1987);  
 VA (Schuster & Etnier, 1978; Parker & Voshell, 1981;  
 Schefter & Wiggins, 1986; Nimmo, 1987; Flint, Hoffman, & Parker, 2004);  
 VT (Schefter & Wiggins, 1986);  
 WI (Ross, 1944; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
 Schuster & Etnier, 1978; Schmude & Hilsenhoff, 1986; Schefter & Wiggins, 1986;  
 Nimmo, 1987; Hilsenhoff, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Nugen & Tarter, 1983; Schefter & Wiggins, 1986; Tarter, 1990; Tarter & Floyd, 2016).  
 Hydropsyche winema Denning, 1965, OR;  
 OR (Denning, 1965; Anderson, 1976).

Leptonema albovirens (Walker, 1852), Macronema, Venezuela;  
 male & female genitalia (Flint, 1968);  
 male & female genitalia (Flint, 1981);  
 habitus, head, maxillary palp, wings, midleg, male & female  
 genitalia (Flint, 1987);  
 TX (Flint, 1968; Wiggins, 1977; Bueno-Soria & Flint, 1978; Moulton & Stewart, 1997);  
 Belize (Flint, 1991; Bueno-Soria & Flint, 1978);  
 Colombia (Flint, 1991; Bueno-Soria & Flint, 1978);  
 Costa Rica (Flint, 1991; Bueno-Soria & Flint, 1978);  
 Grenada (Flint, 1991; Bueno-Soria & Flint, 1978; Botosaneanu, 2002);  
 Guatemala (Flint, 1991; Bueno-Soria & Flint, 1978);  
 Guayana (Bueno-Soria & Flint, 1978)  
 Honduras (Flint, 1991; Bueno-Soria & Flint, 1978);  
 Margarita (Botosaneanu, 2002);  
 Mexico (Flint, 1991; Bueno-Soria & Flint, 1978);  
 Nicaragua (Flint, 1991; Bueno-Soria & Flint, 1978);  
 Panama (Flint, 1991; Bueno-Soria & Flint, 1978);  
 St Vincent (Flint, 1991; Bueno-Soria & Flint, 1978; Botosaneanu, 2002);  
 Tobago (Flint, 1991; Botosaneanu, 2002);  
 Trinidad (Flint, 1991; Bueno-Soria & Flint, 1978; Botosaneanu, 2002);  
 Venezuela (Flint, 1991);  
 from Texas and Mexico through Central America to Colombia and Venezuela  
 (Botosaneanu, 2002).

Macrostemum carolina (Banks, 1909), Macronema, NC;  
 retreat (Wallace & Sherberger, 1974; Wallace, 1975);  
 net (Wallace & Malas, 1976);

male head, male & female genitalia (Nimmo, 1987);  
 GA/SC (Gordon & Wallace, 1975);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 NY to FL to OK (Wiggins, 1977);  
 AL (Wallace, 1975; Harris, Lago, & O'Neil, 1984;  
     Lago & Harris, 1987; Harris, 1987; Nimmo, 1987;  
     Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996;  
     Hicks & Haynes, 2000a; Hicks & Haynes, 2000b; Harris & O'Neil, 2015);  
 AR (Unzicker, Aggus, & Warren, 1970; Wallace, 1975; Nimmo, 1987;  
     Bowles & Mathis, 1989; Moulton & Stewart, 1996);  
 DE (Lake, 1984; Moulton & Stewart, 1996);  
 FL (Betten, 1934; Wallace & Sherberger, 1974; Wallace, 1975;  
     Wiggins, 1977; Harris, Lago, & Scheiring, 1982;  
     Scheiring, 1985; Nimmo, 1987; Pescador, Rasmussen, & Harris, 1995, 2004;  
     Mattson, Epler, & Hein, 1995; Moulton & Stewart, 1996; Rasmussen, 2004;  
     Denson, Rasmussen, & Harris, 2016);  
 GA (Betten, 1934; Wallace, 1975; Wallace, Webster, & Woodall, 1977; Nimmo, 1987;  
     Moulton & Stewart, 1996; Murray-Stoker, Batzer, Murray-Stoker, & McHugh, 2020);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1944; Nimmo, 1987; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1944; Wallace, 1975; Waltz & McCafferty, 1983; Nimmo, 1987;  
     Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Ross, 1944; Wallace, 1975; Lago, Holzenthal, & Harris, 1982; Nimmo, 1987;  
     Moulton & Stewart, 1996);  
 MD (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 MO (Wallace, 1975; Nimmo, 1987; Mathis & Bowles, 1992; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Lago, Holzenthal, & Harris, 1982; Nimmo, 1987; Moulton & Stewart, 1996);  
 NC (Banks, 1909; Wallace, 1975; Lenat, 1983; Nimmo, 1987;  
     Moulton & Stewart, 1996; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NJ (Ross, 1941; Nimmo, 1987; Moulton & Stewart, 1996);  
 NY (Ross, 1944; Wiggins, 1977; Bilger, 1986; Nimmo, 1987;  
     Moulton & Stewart, 1996; Tozer, 2018);  
 OK (Ross, 1944; Wallace, 1975; Wiggins, 1977; Nimmo, 1987;  
     Bowles & Mathis, 1992; Moulton & Stewart, 1996);  
 PA (Nimmo, 1987; Moulton & Stewart, 1996);  
 SC (Ross, 1944; Wallace, 1975; Cudney & Wallace, 1980;  
     Morse, Chapin, Herlong, & Harvey, 1980; Nimmo, 1987;  
     Moulton & Stewart, 1996);  
 TN (Wallace, 1975; Moulton & Stewart, 1996);  
 TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);  
 VA (Parker & Voshell, 1981; Nimmo, 1987; Hoffman & Parker, 1997;  
     Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004).  
*Macrostemum transversum* (Walker, 1852), *Hydropsyche*, GA;  
     *Macronema polygrammatum* McLachlan, 1871, North America  
     (Milne, 1936);  
 retreat, photos of retreat, net (Wallace, 1975);  
 AL (Wallace, 1975; Harris, Lago, & O'Neil, 1984; Harris, 1987;  
     Lago & Harris, 1987; Harris, O'Neil, & Lago, 1991;  
     Hicks & Haynes, 2000b);  
 GA (Walker, 1852; Wallace, 1975; Wiggins, 1977; Nimmo, 1987);  
 IN (Ross, 1944; Wallace, 1975; Wiggins, 1977; Waltz & McCafferty, 1983; Nimmo, 1987;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MD (Banks, 1904; Nimmo, 1987);  
 MS (Lago, Holzenthal, & Harris, 1982);  
 OH (Nimmo, 1987;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 VA (Wallace, 1975; Parker & Voshell, 1981; Nimmo, 1987; Flint, Hoffman, & Parker, 2004).  
*Macrostemum zebratum* (Hagen, 1861), *Macronema*, Canada, DC, MD, NY, VA;  
 male genitalia (Ross, 1944);  
 retreat and net (Wallace, 1975);  
 net (Wallace & Malas, 1976);  
 larva, retreat, net (Wiggins, 1977);  
 adult metathorax (Wimmer, 1979);  
 male & female midtibiae & tarsi (Deutsch, 1985);  
 male head, male & female genitalia (Nimmo, 1987);  
 male genitalia (Houghton, 2012);  
 Canada (Hagen, 1861);  
 GA/NC/SC (Gordon & Wallace, 1975);  
 GA/SC (Wallace, 1975);  
 MN to QC to NH to IL to GA, UT (Wiggins, 1977);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris et al, 1983; Harris, Lago, & O'Neil, 1984;  
     Lago & Harris, 1987; Frazer, Harris, & Ward, 1991;  
     Harris, O'Neil, & Lago, 1991; Hicks & Haynes, 2000a);  
 CT (Ross, 1944; Wallace, 1975; Nelson & Downs, 1995);  
 DC (Hagen, 1861);  
 DE (Lake, 1984; Nimmo, 1987);  
 GA (Ross, 1944; Wallace, 1975; Wiggins, 1977; Nimmo, 1987);  
 IA (Wallace, 1975; Blinn, Ruiter, & Flint, 2009;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Betten, 1934; Wiggins, 1977; Nimmo, 1987;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Betten, 1934; Ross, 1944; Wallace, 1975; Waltz & McCafferty, 1983; Bright, 1986;  
     Nimmo, 1987;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Ross, 1944; Wallace, 1975; Resh, 1975; Nimmo, 1987;  
     Floyd & Schuster, 1990; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Morgan and O'Neil, 1931; Neves, 1979; Bilger, 1986);  
 MD (Hagen, 1861; Flint, 2008);  
 ME (Ross, 1944; Blickle & Morse, 1966; Wallace, 1975;  
     Mingo & Gibbs, 1979; Mingo & Gibbs, 1980; Bilger, 1986;  
     Nimmo, 1987; Huryn & Harris, 2000);  
 MI (Ross, 1944; Wallace, 1975; Nimmo, 1987; Davis, Hudson, & Armitage, 1991;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton, 2022;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Denning, 1943; Etnier, 1965; Wallace, 1975; Wiggins, 1977;  
     Lager, Johnson, Williams, & McCullough, 1979; Nimmo, 1987; Ruiter, 1996;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Mathis & Bowles, 1992;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Brimley, 1938; Nimmo, 1987; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 ND (Harris, Lago, & Carlson, 1980; Nimmo, 1987;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NH (Hagen, 1873; Wiggins, 1977; Nimmo, 1987);

NJ (Smith, 1890; Smith, 1900; Smith, 1910; Nimmo, 1987);  
 NY (Hagen, 1861; Wallace, 1975; Bilger, 1986; Nimmo, 1987;  
 Myers, Kondratieff, Mihuc, & Ruiter, 2011; Tozer, 2018);  
 OH (Ross, 1944; Wallace, 1975; MacLean & MacLean, 1980; Huryn & Foote, 1983;  
 Usis & MacLean, 1986; Nimmo, 1987; Garono & MacLean, 1988;  
 Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Ross, 1944; Peterson, 1952; Wallace, 1975; Wiggins, 1977; Nimmo, 1987;  
 Ciborowski and Corkum, 1988);  
 PA (Ross, 1941; Hyland, 1948; Wallace, 1975; Nimmo, 1987; Masteller & Flint, 1992);  
 QC (Robert, 1958; Corbet, 1966; Corbet, Schmid, & Augustin, 1966; Wallace, 1975;  
 Roy & Harper, 1975; Roy & Harper, 1979; Wiggins, 1977; Nimmo, 1987);  
 SC (Wallace, 1975);  
 TN (Dendy, 1944; Edwards, 1966; Wallace, 1975;  
 Etnier & Schuster, 1979; Nimmo, 1987; Etnier, Baxter, Fraley, & Parker, 1998);  
 UT (Knowlton and Harmston, 1939; Ross, 1944; Wiggins, 1977;  
 Baumann & Unzicker, 1981; Nimmo, 1987);  
 VA (Hagen, 1861; Hoffman & Merkel, 1948; Wallace, 1975; Parker & Voshell, 1979;  
 Parker & Voshell, 1981; Parker & Voshell, 1982; Parker & Voshell, 1983;  
 Nimmo, 1987; Hoffman & Parker, 1997; Flint, Hoffman, & Parker, 2004; Flint, 2011);  
 VT (Wimmer, 1979);  
 WI (Ross, 1944; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Wallace, 1975;  
 Hilsenhoff, 1975; Schmude & Hilsenhoff, 1986; Nimmo 1987; Hilsenhoff, 1995;  
 Houghton & Lardner, 2020;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Wallace, 1975; Nimmo, 1987; Tarter, 1990; Tarter & Floyd, 2016).

*Oropsyche howellae* Ross, 1941, NC;

larva (Wiggins, 1977, possibly this species);

NC/SC (Unzicker, Resh, & Morse, 1982);

NC (Ross, 1941; Wiggins, 1977; Morse et al, 1997;

Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);

TN (Etnier & Schuster, 1979, refers to *Homoplectra flinti* according to

Etnier, Baxter, Fraley, & Parker, 1998 [later determined to be *Diplectrona marianae* by Harvey, Geraci, Robinson, Morse, Kjer, & Zhou, 2012]).

*Parapsyche almota* Ross, 1938, WA;

*Arctopsyche oregonensis* Ling, 1938, OR (Ross, 1944);

larva (Smith, 1968);

male genitalia (Schmid, 1968);

larval gills, pupa, male & female genitalia (Givens & Smith, 1980);

male & female midtibiae & tarsi (Deutsch, 1985);

male & female genitalia (Nimmo, 1987);

western North America, ID (Smith, 1968);

West Nearctic (Schmid, 1968);

female genitalia, male & female pupal apical processes, pupal mandibles, hook plates & pupal case, larval ventral apotome & gills, SEMs larval abdominal tergal setae (Givens, 2015);

BC (Ross, 1938; Ross & Spencer, 1952; Smith, 1968; Givens & Smith, 1980;

Nimmo & Scudder, 1983; Nimmo, 1987; Williams & Williams, 1987);

CA (Denning, 1956; Smith, 1868; Givens, & Smith, 1980; Nimmo, 1987;

McElravy & Resh, 1987; Erman, 1989; Erman & Erman, 1990; Myers & Resh, 1999;  
 Givens, 2015; Resh & Mendez, 2022);

CO (Smith, 1968; Givens & Smith, 1980; Herrmann, Ruiter, & Unzicker, 1986; Nimmo, 1987;

Zuellig, Heinold, Kondratieff, & Ruiter, 2012; Givens, 2015);

ID (Smith, 1968; Newell & Minshall, 1977; Givens & Smith, 1980; Nimmo, 1987; Givens, 2015);

MT (Newell, 1970; Newell & Potter, 1973; Roemhild, 1982;  
     Nimmo, 1987; Givens, 2015);  
 NM (Nimmo, 1987);  
 NV (Smith, 1968; Givens & Smith, 1980; Nimmo, 1987; Ruiter, Baumann, & Flint, 2014;  
     Givens, 2015);  
 OR (Ling, 1938; Smith, 1968; Anderson, 1976; Givens & Smith, 1980;  
     Nimmo, 1987; Anderson & Hansen, 1987; Anderson, 1997; Givens, 2015);  
 UT (Denning, 1949; Smith, 1968; Givens & Smith, 1980;  
     Baumann & Unzicker, 1981; Nimmo, 1987);  
 WA (Ross, 1938; Smith, 1968; Givens & Smith, 1980; Nimmo, 1987;  
     Newell, Ruiter, & Streng, 2001; Blinn & Ruiter, 2013; Givens, 2015).  
*Parapsyche apicalis* (Banks, 1908), Arctopsyche, NH, NY;  
     larva, pupa (Flint, 1961);  
     male genitalia (Schmid, 1968);  
     larva (Wiggins, 1977);  
     male & female genitalia (Nimmo, 1987);  
     male genitalia (Houghton, 2012);  
     East Nearctic (Schmid, 1968);  
     NC/SC (Unzicker, Resh, & Morse, 1982);  
     CO (Milne, 1938; uncertain, Schmid, 1968; uncertain, Nimmo, 1987);  
     CT (Nelson, 1987; Nelson & Downs, 1995);  
     IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
     MA (Milne & Milne, 1938; Neves, 1979; Nimmo, 1987);  
     ME (Johnson, 1927; Blickle & Morse, 1966; Mingo & Gibbs, 1979;  
         Bilger, 1986; Nimmo, 1987);  
     MI (Leonard and Leonard, 1949; Ellis, 1962; Nimmo, 1987; Houghton, Brandin, & Brakel, 2011;  
         Houghton & Shoup, 2014; DeWalt & South, 2015; Houghton, 2015;  
         Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
         Houghton & Lardner, 2020; Houghton, 2022;  
         Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
     MN (Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
         Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
     NC (Milne & Milne, 1938; Ross & Wallace, 1982;  
         Huryn & Wallace, 1987; Huryn & Wallace, 1988; Nimmo, 1987;  
         Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);  
     NF (Marshall & Larson, 1982; Nimmo, 1987; Williams, 1991);  
     NH (Banks, 1908);  
     NS (Milne & Milne, 1938; Nimmo, 1987);  
     NY (Banks, 1908; McCabe, 1986; Nimmo, 1987; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
     OH (Huryn & Foote, 1981; Huryn & Foote, 1983; Armitage et al., 2011;  
         Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
     ON (Sprules, 1947; Singh, Smith, & Harrison, 1984a; Nimmo, 1987; Williams & Williams, 1987;  
         Williams, Tavares, & Bryant, 1987; Harper, 1989; Williams, 1991; Zhou et al., 2011);  
     PA (Masteller & Flint, 1979; Masteller & Flint, 1984;  
         Swegman, Walker, & Sykora, 1981; Nimmo, 1987;  
         Masteller & Flint, 1992);  
     PE (Nimmo, 1987; Dobrin & Giberson, 2003);  
     QC (Robert, 1958; Roy & Harper, 1975; Roy & Harper, 1979;  
         Williams & Williams, 1979; Nimmo, 1987; Harper, 1989; Zhou et al., 2011);  
     RI (Nimmo, 1987; Hunt, 2017);  
     SC (Morse, Hamilton, & Hoffman, 1989);  
     TN (Flint, 1961; Etnier & Schuster, 1979; Nimmo, 1987; Etnier, Baxter, Fraley, & Parker, 1998);  
     VA (Flint, 1961; Wiggins, 1977; Parker & Voshell, 1981;  
         Nimmo, 1987; Flint, Hoffman, & Parker, 2004; Zhou et al., 2011);  
     VT (Wimmer, 1979; Bilger, 1986; Nimmo, 1987);

- WI (Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Shapas & Hilsenhoff, 1976; Karl & Hilsenhoff, 1979; Schmude & Hilsenhoff, 1986; Nimmo, 1987; Hilsenhoff, 1995; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- WV (Tarter, 1990; Griffith & Perry, 1992; Griffith, Barrows, and Perry, 1998; Tarter & Floyd, 2016).
- Parapsyche cardis* Ross, 1938, NC;  
 larva, pupa (Flint, 1961);  
 male genitalia (Schmid, 1968);  
 net (Wallace & Malas, 1976);  
 GA/NC (Wallace, Webster, & Woodall, 1977);  
 GA/NC/SC (Gordon & Wallace, 1975);  
 GA, TN (Flint, 1961);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 GA (Benke & Wallace, 1980);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- NC (Ross, 1938; Schmid, 1968; Woodall & Wallace, 1972; Penrose, Lenat, & Eagleson, 1982; Ross & Wallace, 1982; Armitage & Tennessen, 1984; Huryn & Wallace, 1987; Huryn & Wallace, 1988; Morse, Hamilton, & Hoffman, 1989; Floyd, Morse, & Harris, 1997; DeWalt, Jacobus, & McCafferty, 2007; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);
- SC (Morse, Hamilton, & Hoffman, 1989; Floyd & Morse, 1993; Floyd, Morse, & Harris, 1997);
- TN (Etnier & Schuster, 1979; Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005);
- VA (Flint, Hoffman, & Parker, 2004; Zhou et al., 2011).
- Parapsyche elsis* Milne, 1936, BC;  
*Arctopsyche brevipennis* Ling, 1938, CA (Ross, 1944);  
 larva (Smith, 1968; Givens, 1976);  
 male genitalia (Schmid, 1968);  
 male & female genitalia (Schmid, 1980);  
 larval gills, pupa, case, male & female genitalia (Givens & Smith, 1980);  
 male & female genitalia (Nimmo, 1987);  
 female genitalia, pupal apical processes, pupal mandibles, hook plates & pupal case, larval ventral apotome & gills, SEMs larval abdominal tergal setae (Givens, 2015);  
 photo & SEMs of capture net (Frandsen, Bursell, Taylor, Wilson, Steeneck, & Stewart, 2019);  
 West Nearctic (Schmid, 1968);
- AB (Milne, 1936; Smith, 1968; Givens & Smith, 1980; Nimmo, 1987; Williams, 1991);
- AK (Ellis, 1978; Vineyard, 1982; Nimmo, 1987; Givens, 2015);
- BC (Milne, 1936; Ross & Spencer, 1952; Smith, 1968; Nimmo & Scudder, 1978; Nimmo & Scudder, 1983; Givens & Smith, 1980; Nimmo, 1987; Williams & Williams, 1987; Williams, 1991);
- CA (Ling, 1938; Smith, 1968; Resh & Sorg, 1978; Givens & Smith, 1980; Nimmo, 1987; Erman, 1989; Givens, 2014; Givens, 2015; Resh & Mendez, 2022);
- CO (Givens & Smith, 1980; Herrmann, Ruiter, & Unzicker, 1986; Ruiter, 1996; Givens, 2015);
- ID (Smith, 1968; Newell & Minshall, 1977; Givens & Smith, 1980; Nimmo, 1987; Givens, 2015);
- MT (Smith, 1968; Newell, 1970; Newell & Potter, 1973; Givens & Smith, 1980; Roemhild, 1982; Nimmo, 1987; Jones & Resh, 1988; Stanford, Hauer, and Ward, 1988; Givens, 2015);
- NC (Milne and Milne, 1938, a misidentification according to Flint, 1961; uncertain, Schmid, 1968; Smith 1968, Givens & Smith, 1980; Nimmo, 1987);
- NT (Nimmo, 1986; Nimmo, 1987);



- NV (Givens & Smith, 1980; Ruiter, Baumann, & Flint, 2014);  
 OR (Milne, 1936; Kraft, 1963, misidentification,  
 Anderson & Hansen, 1987; Anderson & Wold, 1972;  
 Anderson, 1976; Givens & Smith, 1980;  
 Anderson, Cooper, & Denning, 1982;  
 Anderson, Wisseman, & Courtney, 1984; Nimmo, 1987; Givens, 2015);  
 UT (Smith, 1968; Givens & Smith, 1980; Baumann & Unzicker, 1981;  
 Nimmo, 1987; Frandsen, Bursell, Taylor, Wilson, Steeneck, & Stewart, 2019);  
 WA (Smith, 1968; Givens & Smith, 1980; Smith, 1981; Nimmo, 1987;  
 Anderson & Wisseman, 1987; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005;  
 Blinn & Ruiter, 2013; Givens, 2015);  
 WY (Smith, 1968; Givens, 1976; Givens & Smith, 1980; Ruiter & Lavigne, 1985; Nimmo, 1987;  
 Ruiter, 1996; Perez-Cruet, 2020);  
 YT (Nimmo & Wickstrom, 1984; Nimmo, 1987; Wiggins & Parker, 1997; Givens, 2015).
- Parapsyche extensa* Denning, 1949, CA;  
 male genitalia (Givens & Smith, 1980);  
 female genitalia, pupal case, larval head, ventral apotome & gills, SEMs larval abdominal tergal  
 setae (Givens, 2015);  
 CA (Denning, 1949; Schmid, 1968; Givens & Smith, 1980; Givens, 2014; Givens, 2015;  
 Resh & Mendez, 2022).
- Parapsyche spinata* Denning, 1949, OR;  
 male genitalia (Givens & Smith, 1980);  
 female genitalia, male pupal apical processes, pupal mandibles, hook plates & pupal case, larval  
 ventral apotome & gills, SEMs larval abdominal tergal setae (Givens, 2015);  
 CA (Denning, 1956; Givens, 2015; Resh & Mendez, 2022);  
 OR (Denning, 1949; Schmid, 1968; Anderson, 1976; Givens, 2015);  
 UT (Baumann & Unzicker, 1981).
- Parapsyche turbinata* Schmid, 1968, OR;  
 female genitalia (Schmid, 1968);  
 male & female genitalia (Givens & Smith, 1980);  
 female genitalia, male pupal apical processes, pupal mandibles, hook plates & pupal case, larval  
 ventral apotome & gills, SEMs larval abdominal tergal setae (Givens, 2015);  
 CA (Schmid, 1968; Givens, 2015; Resh & Mendez, 2022);  
 OR (Schmid, 1968; Anderson, 1976; Givens, 2015; Lonsdale, 2020).
- Potamyia flava* (Hagen, 1861), *Macronema*, MO;  
*Hydropsyche kansensis* Banks, 1905, KS (Milne, 1936);  
 phallus (Ross & Unzicker, 1977);  
 larva (Wiggins, 1977);  
 wings, male genitalia (Schmid, 1980);  
 wings, male & female genitalia (Nimmo, 1987);  
 male genitalia & photo of adult (Houghton, 2012);  
 GA/SC (Gordon & Wallace, 1975);  
 MD/VA (Flint & Butler, 1983);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 OK/TX (Resh, White, & White, 1978);  
 AL (Harris, Lago, & O'Neil, 1984; Harris, 1987;  
 Lago & Harris, 1987; Harris, O'Neil, & Lago, 1991;  
 Moulton & Stewart, 1996; Hicks & Haynes, 2000b; Harris & O'Neil, 2015);  
 AR (Ross, 1941; Unzicker, Aggus, & Warren, 1970; Hamilton & Schuster, 1979; Nimmo, 1987;  
 Bowles & Mathis, 1989; Moulton & Stewart, 1996;  
 Bowles, Cheri, Usrey, & Williams, 2020);  
 CO (Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 DE (Lake, 1984; Moulton & Stewart, 1996);  
 FL (Gordon, 1984; Pescador, Rasmussen, & Harris, 1995, 2004);

Moulton & Stewart, 1996; Rasmussen, 2004; Denson, Rasmussen, & Harris, 2016);  
 GA (Hamilton & Schuster, 1979; Nimmo, 1987; Moulton & Stewart, 1996);  
 IA (Denning, 1943; Wenke, 1967; Hamilton & Schuster, 1979; Nimmo, 1987;  
 Moulton & Stewart, 1996; Blinn, Ruiter, & Flint, 2009;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Betten, 1934; Harris, 1971; Hamilton & Schuster, 1979; Nimmo, 1987;  
 Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Banks, 1907; Hamilton & Schuster, 1979; Waltz & McCafferty, 1983; Bright, 1986;  
 Nimmo, 1987; Moulton & Stewart, 1996;  
 DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
 Houghton & Lardner, 2020;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Banks, 1905; Hamilton & Schuster, 1979; Nimmo, 1987; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Ross, 1944; Resh, 1975; Hamilton & Schuster, 1979; Nimmo, 1987;  
 Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 MB (Nimmo, 1987; Moulton & Stewart, 1996);  
 MD (Moulton & Stewart, 1996);  
 MI (Ross, 1944; Hamilton & Schuster, 1979; Nimmo, 1987; Davis, Hudson, & Armitage, 1991;  
 Moulton & Stewart, 1996; Houghton, Brandin, & Brakel, 2011;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Denning, 1943; Etnier, 1965; Wiggins, 1977; Hamilton & Schuster, 1979; Nimmo, 1987;  
 Ruiter, 1996; Moulton & Stewart, 1996;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2004a;  
 Houghton & Holzenthal, 2010; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Hagen, 1861; Hamilton & Schuster, 1979; Nimmo, 1987; Mathis & Bowles, 1992;  
 Moulton & Stewart, 1996; Ferro & Sites, 2007; Bowles, 2020;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Lago, Holzenthal, & Harris, 1982; Moulton & Stewart, 1996);  
 MT (Newell & Potter, 1973; Wiggins, 1977; Roemhild, 1982;  
 Nimmo, 1987; Moulton & Stewart, 1996);  
 NC (Moulton & Stewart, 1996);  
 ND (Denning, 1943; Hamilton & Schuster, 1979; Harris, Lago, & Carlson, 1980; Nimmo, 1987;  
 Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NE (Nimmo, 1987, suspect, Flint, pers comm;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NY (Bilger, 1986; Moulton & Stewart, 1996);  
 OH (Denning, 1943; Hamilton & Schuster, 1979; MacLean & MacLean, 1980;  
 Huryn & Foote, 1983; MacLean & MacLean, 1984; Usis & MacLean, 1986;  
 Nimmo, 1987; Garono & MacLean, 1988; Moulton & Stewart, 1996;  
 Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Ross, 1944; Hamilton & Schuster, 1979; Nimmo, 1987;  
 Bowles & Mathis, 1992; Moulton & Stewart, 1996;  
 Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006);  
 ON (Schmid, 1980; Moulton & Stewart, 1996);  
 PA (Masteller & Flint, 1979; Nimmo, 1987; Masteller & Flint, 1992);

Moulton & Stewart, 1996);  
 QC (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 SC (Floyd & Morse, 1993; Moulton & Stewart, 1996);  
 SD (Ross, 1944; Wiggins, 1977; Hamilton & Schuster, 1979; Nimmo, 1987;  
 Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 TN (Dendy, 1944; Edwards, 1956; Edwards, 1966;  
 Etnier & Schuster, 1979; Hamilton & Schuster, 1979;  
 Nimmo, 1987; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998;  
 Etnier, Bauer, & Zirkle, 2006);  
 TX (Ross, 1944; Edwards, 1973; Hamilton & Schuster, 1979;  
 Nimmo, 1987; Moulton & Stewart, 1996;  
 Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);  
 VA (Parker & Voshell, 1981; Nimmo, 1987; Moulton & Stewart, 1996;  
 Flint, Hoffman, & Parker, 2004);  
 WI (Denning, 1943; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Shapas & Hilsenhoff, 1976;  
 Hamilton & Schuster, 1979; Steven & Hilsenhoff, 1984; Schmude & Hilsenhoff, 1986;  
 Nimmo, 1987; Lillie & Hilsenhoff, 1992; Hilsenhoff, 1995; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016).

*Smicridea arizonensis* Flint, 1974, AZ;  
 AZ (Flint, 1974; Moulton, Stewart, & Young, 1994; Blinn & Ruiter, 2006;  
 Blinn & Ruiter, 2009b).  
*Smicridea dispar* (Banks, 1905), *Polycentropus*, AZ;  
*Smicridea utico* Ross, 1947, UT (Flint, 1974);  
 larva, forewing, male & female genitalia (Flint, 1974);  
 AZ (Banks, 1905; Houghton, 2001; Blinn & Ruiter, 2006; Blinn & Ruiter, 2009a;  
 Blinn & Ruiter, 2009b);  
 CA (Denning, 1956; Resh & Mendez, 2022);  
 UT (Ross, 1947; Baumann & Unzicker, 1981);  
 Mexico (Ross, 1947; Flint, 1974).  
*Smicridea fasciatella* McLachlan, 1871, TX;  
*Hydropsyche divisa* Banks, 1903, AZ (Milne, 1936);  
 larva, forewing, male & female genitalia (Flint, 1974);  
 larva (Wiggins, 1977);  
 AZ (Flint, 1974; Moulton & Stewart, 1996; Blinn & Ruiter, 2006; Blinn & Ruiter, 2009a;  
 Blinn & Ruiter, 2009b; Blinn, Ruiter, & Haden, 2012;  
 Cavallaro, Sanders, & Hladik, 2022);  
 CA (Ruiter, 1999; Cavallaro, Medeiros, Halloran, & Millar, 2022; Resh & Mendez, 2022);  
 CO (Flint, 1974; Herrmann, Ruiter, & Unzicker, 1986;  
 Moulton & Stewart, 1996);  
 NM (Banks, 1904; Moulton & Stewart, 1996);  
 NV (Ruiter, Baumann, & Flint, 2014);  
 OK (Ross, 1944; Hall, 1950; Flint, 1974; Wiggins, 1977;  
 Bowles & Mathis, 1992; Moulton & Stewart, 1996;  
 Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006);  
 TN (Edwards, 1966; uncertain record according to  
 Etnier & Schuster, 1979 and Etnier, Baxter, Fraley, & Parker, 1998);  
 TX (McLachlan, 1871; Hall, 1950; Kimmins and Denning, 1951; Edwards & Arnold, 1961;  
 Edwards, 1973; Flint, 1974; Moulton & Stewart, 1996; Moulton & Stewart, 1997;  
 Bowles, Tiemann, & Easley, 2007; Diaz & Alexander, 2012; Rázuri-Gonzales, 2020);  
 Mexico (Flint, 1967).  
*Smicridea signata* (Banks, 1903), *Pellopsyche*, CO;  
 forewing, male & female genitalia (Flint, 1974);

male genitalia (Rázuri-Gonzales & Holzenthal, 2016; Rázuri-Gonzales, 2020);  
 wing venation (Rázuri-Gonzales, 2020);  
 AZ (Flint, 1974; Blinn & Ruiter, 2006; Blinn & Ruiter, 2009a;  
     Rázuri-Gonzales & Holzenthal, 2016; Rázuri-Gonzales, 2020);  
 CO (Banks, 1903; Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
     Rázuri-Gonzales & Holzenthal, 2016; Rázuri-Gonzales, 2020);  
 NM (Flint, 1974; Blinn & Ruiter, 2009a;  
     Rázuri-Gonzales & Holzenthal, 2016; Rázuri-Gonzales, 2020);  
 OK (Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006);  
 TX (Moulton & Stewart, 1997; Rázuri-Gonzales & Holzenthal, 2016; Rázuri-Gonzales, 2020);  
 UT (Flint, 1974; Baumann & Unzicker, 1981;  
     Rázuri-Gonzales & Holzenthal, 2016; Rázuri-Gonzales, 2020);  
 Belize, Guatemala, El Salvador, Honduras, Nicaragua, Costa Rica,  
     Panama (Bueno-Soria & Flint, 1978);  
 Mexico (Flint, 1974);  
 Mexico, Guatemala (Rázuri-Gonzales & Holzenthal, 2016).

Hydroptilidae (17 genera, 309 species) —Microcaddisflies

- Agraylea cognatella* McLachlan, 1880, Finland;  
 AK (Kendrick & Huryn, 2014);  
 YT (Wiggins & Parker, 1997).
- Agraylea costello* Ross, 1941, ON;  
 male sternum 7, genitalia (Blickle, 1979);  
 AR (Etnier, 2010);  
 ME (Wiggins, 1977; Blickle, 1979);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 ON (Ross, 1941; Wiggins, 1977; Blickle, 1979; Schmid, 1980);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979; Blickle, 1979;  
     Schmid, 1980);  
 VA (Parker & Voshell, 1981; Flint, Hoffman, & Parker, 2004);  
 WI (Blickle, 1979; Hilsenhoff, 1995;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Agraylea multipunctata* Curtis, 1834, Britain;  
*Allotrichia flavida* Banks, 1907, CO (Ross, 1944);  
*Agraylea fraterna* Banks, 1907, VA (Milne, 1936);  
*Allotrichia signata* Banks, 1904, VA (Milne, 1936);  
 first instar larva, second instar mandible, third instar larva,  
     last instar larva, case, case construction, pupal mandible,  
     abdominal hooks, case (Lepneva, 1964/70);  
 first and last instar larva, case (Hickin, 1967);  
 larva, case (Wiggins, 1977, probably this species);  
 female genitalia (Nielsen, 1978; Nielsen, 1980);  
 male sternum 7, genitalia (Blickle, 1979);  
 male head, maxillary palp, wings, sterna V & VII, male & female  
     genitalia (Schmid 1980);  
 wings, male genitalia (Tobias & Tobias, 1981);  
 male genitalia & photo of adult (Houghton, 2012);  
 Canada (Ross, 1944);  
 NB to BC to OR to IL, VA (Blickle, 1979);  
 BC (Ross and Spencer, 1952; Blickle, 1979; Flannagan & MacDonald, 1987);  
 CO (Banks, 1907; Dodds and Hisaw, 1925; Ross, 1944; Canton & Ward, 1981; Wiggins, 1977;  
     Herrmann, 1977; Herrmann, Ruiter, & Unzicker, 1986; Ruiter, 1996;  
     Ruse & Herrmann, 2000; Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
     Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
 CT (Nelson & Downs, 1995);

DE (Lake, 1984);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Betten, 1934; Blickle, 1979;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
     Houghton & Lardner, 2020;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Neves, 1979);  
 ME (Ross, 1944; Hury & Harris, 2000);  
 MB (Flannagan & MacDonald, 1975; Flannagan, 1978; Flannagan & Flannagan, 1982);  
 MI (Ross, 1944; Ellis, 1962; Davis, Hudson, & Armitage, 1991; Ruiter, 2010;  
     Houghton, Brandin, & Brakel, 2011; Wright, Pytel, & Houghton, 2013; Houghton, 2015;  
     Houghton, 2016;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton, 2022;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Denning, 1937; Ross, 1944; Etnier, 1965; Ruiter, 1996; Monson, 1997;  
     Houghton & Holzenthal, 2010; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Newell, 1970; Newell & Potter, 1973; Roemhild, 1982);  
 NB (Blickle, 1979; Flannagan & MacDonald, 1987);  
 ND (Denning, 1947; Harris, Lago, & Carlson, 1980;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NE (Harris, Kondratieff, & Boyle, 2000;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NH (Morse and Blickle, 1953);  
 NM (Vieira, Kondratieff, Ruiter, & Durfee, 2009);  
 NS (Flannagan & MacDonald, 1987);  
 NT (Flannagan & MacDonald, 1987);  
 NY (Morton, 1905; Banks, 1907; Betten, 1926; Ross, 1944;  
     Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Marshall, 1939; Hury & Foote, 1983; MacLean & MacLean, 1984; Usis & MacLean, 1986;  
     Garono & MacLean, 1988; Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Judd, 1949; Wiggins, 1977; Flannagan & MacDonald, 1987;  
     Harper, 1989);  
 OR (Anderson, 1976; Blickle, 1979; Anderson, Cooper, & Denning, 1982);  
 PA (Masteller & Flint, 1979; Swegman, Walker, & Sykora, 1981;  
     Masteller & Flint, 1992);  
 QC (Nimmo, 1966; Corbet, 1966; Corbet, Schmid, & Augustin, 1966;  
     Roy & Harper, 1979; Flannagan & MacDonald, 1987;  
     Harper, 1989);  
 SD (Ross, 1944;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 TN (Edwards, 1966; Wiggins, 1977; Etnier & Schuster, 1979;  
     Etnier, Baxter, Fraley, & Parker, 1998);  
 UT (Baumann & Unzicker, 1981);  
 VA (Banks, 1904; Banks, 1907; Ross, 1938; Ross, 1944;  
     Blickle, 1979; Flint, Hoffman, & Parker, 2004);  
 VT (Wimmer, 1979);  
 WA (Zack, Ruiter, Strenge, & Landolt, 2006; Blinn & Ruiter, 2013);  
 WI (Muttkowski, 1918; Betten, 1934; Ross, 1944; Hilsenhoff et al, 1972;  
     Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Shapas & Hilsenhoff, 1976);

- Steven & Hilsenhoff, 1984; Hilsenhoff, 1995;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
WY (Ruiter & Lavigne, 1985);  
YT (Nimmo & Wickstrom, 1984);  
Britain (Curtis, 1834; Hickin, 1967);  
Holarctic (Blickle, 1979);  
Europe, northwestern Siberia (Lepneva, 1964/70);  
Europe (Tobias & Tobias, 1981).
- Agryalea saltesea* Ross, 1938, MT;  
male sternum 7, genitalia (Blickle, 1979);  
AK (Vineyard, 1982);  
BC (Nimmo & Scudder, 1983);  
CA (Denning, 1956; Blickle, 1979; Leland, Fend, Carter, & Mahood, 1986;  
Resh & Mendez, 2022);  
CO (Herrmann, Ruiter, & Unzicker, 1986; Ruiter, 1996; Ruse & Herrmann, 2000;  
Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
MT (Ross, 1938; Newell, 1970; Newell & Potter, 1973; Blickle, 1979; Roemhild, 1982);  
OR (Anderson, 1976; Blickle, 1979; Hawkins, Murphy & Anderson, 1982;  
Anderson, Cooper, & Denning, 1982);  
UT (Baumann & Unzicker, 1981);  
WA (Anderson & Wisseman, 1987; Blinn & Ruiter, 2013)  
WY (Ruiter, 1999).
- Alisotrichia arizonica* (Blickle & Denning, 1977), Riptila, AZ;  
antenna, male genitalia (Blickle, 1979);  
AZ (Blickle & Denning, 1977; Blickle, 1979;  
Moulton, Stewart, & Young, 1994; Blinn & Ruiter, 2006);  
TX (Moulton & Stewart, 1997; Bowles, Harris, & Bueno-Soria, 1999);  
UT (Blickle, 1979; Baumann & Unzicker, 1981;  
Harris & Holzenthal, 1993).
- Dibusa angata* Ross, 1939, NC;  
larva, case (Wiggins, 1977, probably this species);  
male genitalia (Blickle, 1979);  
larva, pupa, case (Resh & Houp, 1986);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
AL (Harris, Lago, & O'Neil, 1984; Harris, 1986; Harris, 1987;  
Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991;  
Moulton & Stewart, 1996; Hicks & Haynes, 2000a);  
AR (Unzicker, Aggus, & Warren, 1970; Wiggins, 1977; Blickle, 1979; Resh & Houp, 1986;  
Bowles & Mathis, 1989; Moulton & Stewart, 1996; Etnier, 2010;  
Bowles, Cheri, Usrey, & Williams, 2020);  
GA (Resh & Houp, 1986; Moulton & Stewart, 1996);  
IN (Waltz & McCafferty, 1983; Resh & Houp, 1986; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
KY (Resh, 1975; Wiggins, 1977; Blickle, 1979; Resh, & Houp, 1986; Floyd & Schuster, 1990;  
Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006;  
Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MA (Neves, 1979; Bilger, 1986; Moulton & Stewart, 1996; Whitmore 2008);  
ME (Bilger, 1986; Moulton & Stewart, 1996);  
NB (Zhou et al., 2011);  
NC (Ross, 1939; Wiggins, 1977; Blickle, 1979; Lenat, 1983;  
Lenat, 1987; Resh & Houp, 1986; Moulton & Stewart, 1996;  
Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);

NH (Blickle, 1964; Resh & Houp, 1986; Moulton & Stewart, 1996);  
OH (Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
ON (Resh & Houp, 1986; Moulton & Stewart, 1996);  
OK (Ross, 1944; Wiggins, 1977; Blickle, 1979; Resh & Houp, 1986;  
Bowles & Mathis, 1992; Moulton & Stewart, 1996);  
ON (Wiggins, 1977; Resh & Houp, 1986);  
PA (Masteller & Flint, 1980; Resh & Houp, 1986;  
Masteller & Flint, 1992; Moulton & Stewart, 1996);  
SC (Morse et al, 1979; Resh & Houp, 1986;  
Moulton & Stewart, 1996);  
TN (Edwards, 1966; Wiggins, 1977; Etnier & Schuster, 1979;  
Blickle, 1979; Resh & Houp, 1986; Moulton & Stewart, 1996;  
Etnier, Baxter, Fraley, & Parker, 1998; Etnier, Bauer, & Zirkle, 2006);  
VA (Parker & Voshell, 1981; Resh & Houp, 1986;  
Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004);  
VT (Bilger, 1986; Moulton & Stewart, 1996);  
WV (Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016).

*Hydroptila abbotti* Moulton & Harris, 1997, TX;  
male genitalia (Moulton & Harris, 1997);  
TX (Abbott, Stewart, & Moulton, 1997; Moulton & Harris, 1997).

*Hydroptila acadia* Ross, 1941, NS  
male genitalia (Blickle, 1979; Harris, Rasmussen, & Denson, 2012);  
AL (Harris, Rasmussen, & Denson, 2012; Harris & O'Neil, 2015);  
FL (Pescador, Rasmussen, & Harris, 1995; Harris, Rasmussen, & Denson, 2012;  
Denson, Rasmussen, & Harris, 2016);  
NS (Ross, 1941; Blickle, 1979);  
VA (Flint, Hoffman, & Parker, 2004).

*Hydroptila acuminata* Bueno-Soria, 1984, Mexico (Tamaulipas);  
TX (Moulton & Stewart, 1997; Bowles, Tiemann & Easley, 2007);  
Mexico (Tamaulipas)

*Hydroptila ajax* Ross, 1938, IL;  
male genitalia (Blickle, 1979; Bueno-Soria, 1984; Harris, Rasmussen, & Denson, 2012;  
Houghton, 2012);  
AZ (Blinn & Ruiter, 2006; Blinn & Ruiter, 2009a; Blinn & Ruiter, 2009b;  
Blinn, Ruiter, & Haden, 2012);  
CA (Ruiter, 1999; Resh & Mendez, 2022);  
CO (Herrmann, Ruiter, & Unzicker, 1986; Moulton & Stewart, 1996; Ruse & Herrmann, 2000;  
Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
FL (Harris, Rasmussen, & Denson, 2012);  
IA (Wenke, 1967; Moulton & Stewart, 1996; Blinn, Ruiter, & Flint, 2009;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
ID (Ross, 1938; Blickle, 1979; Moulton & Stewart, 1996);  
IL (Ross, 1938; Harris, 1971; Hamilton & Schuster, 1978; Blickle, 1979;  
Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
IN (Ross, 1944; Hamilton & Schuster, 1978; Blickle, 1979; Waltz & McCafferty, 1983;  
Moulton & Stewart, 1996;  
DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
KS (Hamilton & Schuster, 1978; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
KY (Resh, 1975; Hamilton & Schuster, 1978; Blickle, 1979; Haag, Resh, & Neff, 1984;  
Moulton & Stewart, 1996; Floyd, Moulton, Schuster, Parker, & Robinson, 2012);

Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MB (Flannagan, 1978; Flannagan & Flannagan, 1982);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Denning, 1947; Etnier, 1965; Blickle, 1979; Moulton & Stewart, 1996;  
 Harris, Kondratieff, & Boyle, 2000; Houghton, Holzenthal, Monson, & MacLean, 2001;  
 Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Blickle, 1979; Roemhild, 1982; Moulton & Stewart, 1996);  
 NE (Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NV (Ruiter, Baumann, & Flint, 2014);  
 NY (Ross, 1944; Hamilton & Schuster, 1978; Blickle, 1979;  
 Moulton & Stewart, 1996);  
 OH (McElravy, Arsuffi, & Foote, 1977; Hamilton & Schuster, 1978; Petersen & Foote, 1980;  
 Huryn & Foote, 1983; Usis & MacLean, 1986; Garono & MacLean, 1988;  
 Moulton & Stewart, 1996; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Ross, 1944; Hamilton & Schuster, 1978; Blickle, 1979;  
 Bowles & Mathis, 1992; Moulton & Stewart, 1996;  
 Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006);  
 OR (Ross, 1938; Anderson, 1976; Hamilton & Schuster, 1978;  
 Blickle, 1979; Moulton & Stewart, 1996);  
 PA (Masteller & Flint, 1992);  
 SD (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 TX (Blickle, 1979; Moulton & Stewart, 1996;  
 Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997;  
 Bowles, Tiemann & Easley, 2007);  
 UT (Baumann & Unzicker, 1981; Moulton & Stewart, 1996);  
 VA (Parker & Voshell, 1981; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004);  
 WA (Ross, 1938; Hamilton & Schuster, 1978; Blickle, 1979;  
 Moulton & Stewart, 1996; Zack, Ruiter, Strenge, & Landolt, 2006;  
 Blinn & Ruiter, 2013);  
 WI (Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Blickle, 1979; Hilsenhoff, 1995;  
 Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Tarter & Donahoe, 1988; Tarter, 1990;  
 Moulton & Stewart, 1996; Tarter & Floyd, 2016);  
 WY (Ross, 1938; Denning, 1948; Hamilton & Schuster, 1978;  
 Moulton & Stewart, 1996);  
 Mexico (Bueno-Soria, 1984, redescription;  
 Moulton & Stewart, 1996).  
*Hydroptila alabama* Harris & Kelley, 1984, AL;  
 AL (Harris & Kelley, 1984; Harris, 1986; Harris, 1987;  
 Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991;  
 Hicks & Haynes, 2000a; Hicks & Haynes, 2000b);  
 FL (Harris, Rasmussen, & Denson, 2012; Denson, Rasmussen, & Harris, 2016);  
 GA (Frazer, Harris, & Ward, 1991);  
 ME (Huryn & Harris, 2000);  
 NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 PA (Masteller & Flint, 1992);  
 TN (Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005);



TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997).  
*Hydroptila albicornis* Hagen, 1861, Canada;  
 male genitalia (Blickle, 1979; Houghton, 2012);  
 Canada (Hagen, 1861);  
 AR (Unzicker, Aggus, & Warren, 1970; Blickle, 1979; Bowles & Mathis, 1989;  
 Moulton & Stewart, 1996; Bowles, Cheri, Usrey, & Williams, 2020);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1944; Blickle, 1979; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1944; Blickle, 1979; Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
 DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MB (Flannagan, 1978; Flannagan & Flannagan, 1982;  
 Moulton & Stewart, 1996);  
 ME (Blickle, 1979; Moulton & Stewart, 1996);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Denning, 1947; Etnier, 1965; Blickle, 1979; MacLean, 1995;  
 Moulton & Stewart, 1996; Monson, 1997;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Ross, 1944; Blickle, 1979; Mathis & Bowles, 1992; Moulton & Stewart, 1996;  
 Ferro & Sites, 2007;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NY (Sibley, 1926; Blickle, 1979; Moulton & Stewart, 1996;  
 Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Marshall, 1939; Blickle, 1979; Huryn & Foote, 1983; Garono & MacLean, 1988;  
 Moulton & Stewart, 1996; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Blickle, 1979; Bowles & Mathis, 1992;  
 Moulton & Stewart, 1996);  
 ON (Ross, 1944; Blickle, 1979; Moulton & Stewart, 1996);  
 QC (Nimmo, 1966; Corbet, Schmid, & Augustin, 1966;  
 Roy & Harper, 1979; Moulton & Stewart, 1996);  
 TN (Edwards, 1966; Etnier & Schuster, 1979;  
 Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998);  
 WI (Ross, 1944; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
 Blickle, 1979; Hilsenhoff, 1995; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).  
*Hydroptila amoena* Ross, 1938, IL;  
 male genitalia (Blickle, 1979; Harris, 1985; Houghton, 2012);  
 AL (Harris et al, 1983; Harris, Lago, & O'Neil, 1984;  
 Harris, 1986; Harris, 1987; Harris, O'Neil, & Lago, 1991;  
 Moulton & Stewart, 1996);  
 AR (Unzicker, Aggus, & Warren, 1970; Blickle, 1979;  
 Bowles & Mathis, 1989; Moulton & Stewart, 1996);  
 IL (Ross, 1938; Blickle, 1979; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Blickle, 1979; Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MI (Houghton, Brandin, & Brakel, 2011; Houghton, 2016);

- Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
Houghton, 2022;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MN (Denning, 1947; Etnier, 1965; Blickle, 1979; MacLean, 1995; Moulton & Stewart, 1996;  
Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MO (Moulton & Stewart, 1996; Ferro & Sites, 2007; Etnier, 2010;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NH (Morse and Blickle, 1953, record suspect,  
Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
OH (Huryh & Foote, 1981; Huryh & Foote, 1983; Usis & MacLean, 1986;  
Garono & MacLean, 1988; Moulton & Stewart, 1996; Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
OK (Ross, 1938; Blickle, 1979; Bowles & Mathis, 1992;  
Moulton & Stewart, 1996);  
PA (Masteller & Flint, 1992);  
QC (Robert, 1958; Roy & Harper, 1975; Roy & Harper, 1979; Blickle, 1979;  
Moulton & Stewart, 1996);  
SC (Floyd & Morse, 1993);  
TN (Etnier & Schuster, 1979; Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006);  
VA (Parker & Voshell, 1981; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004);  
WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Blickle, 1979;  
Hilsenhoff, 1995; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022  
WV (Tarter & Floyd, 2016).
- Hydroptila ampoda* Ross, 1941, NS;  
male genitalia (Blickle, 1979; Houghton, 2012);  
male head (with gland everted) (Schmid, 1980);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
CT (Nelson, 1987; Nelson & Downs, 1995);  
KY (Resh, 1975; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
ME (Blickle, 1979);  
MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
Houghton, 2022;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MN (Etnier, 1968; Blickle, 1979;  
Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NB (Blickle, 1979);  
NC (Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
NH (Morse and Blickle, 1957; Blickle, 1979);  
NS (Ross, 1941);  
NY (Myers, Kondratieff, Mihuc, & Ruitter, 2011);  
PA (Masteller & Flint, 1992);  
QC (Ross, 1941; Robert, 1958; Roy & Harper, 1975; Roy & Harper, 1979; Blickle, 1979);  
TN (Etnier, Baxter, Fraley, & Parker, 1998);  
VA (Flint, 2014; Flint, 2017);  
WI (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Hydroptila angusta* Ross, 1938, IL;  
male genitalia (Blickle, 1979; Bueno-Soria, 1984; Houghton, 2012);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
OK/TX (Resh, White, & White, 1978);  
AL (Harris et al, 1983; Harris, Lago, & O'Neil, 1984; Harris, 1986; Harris, 1987;  
Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Hicks & Haynes, 2000b);

AR (Frazer, Robison, & Harris, 1991; Moulton & Stewart, 1996);  
CO (Ruiter, 1990; Moulton & Stewart, 1996);  
IA (Blinn, Ruiter, & Flint, 2009;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
IL (Ross, 1938; Harris, 1971; Hamilton & Schuster, 1978; Blickle, 1979; Bueno-Soria, 1984;  
Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
IN (Ross, 1944; Hamilton & Schuster, 1978; Blickle, 1979; Waltz & McCafferty, 1983;  
Moulton & Stewart, 1996; DeWalt, South, Robertson, Marburger, Smith, & Brinson,  
2016;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
KS (Hamilton & Schuster, 1978; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
KY (Resh, 1975; Hamilton & Schuster, 1978; Blickle, 1979; Haag, Resh, & Neff, 1984;  
Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006;  
Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MB (Flannagan, 1978; Flannagan & Flannagan, 1982; Moulton & Stewart, 1996);  
MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MN (Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MO (Hamilton & Schuster, 1978; Blickle, 1979;  
Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MS (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
NC (Moulton & Stewart, 1996);  
ND (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NM (Hamilton & Schuster, 1978; Blickle, 1979;  
Moulton & Stewart, 1996);  
OH (Hamilton & Schuster, 1978; Blickle, 1979; Huryn & Foote, 1983; Usis & MacLean, 1986;  
Garono & MacLean, 1988; Moulton & Stewart, 1996; Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
OK (Hamilton & Schuster, 1978; Blickle, 1979;  
Bowles & Mathis, 1992; Moulton & Stewart, 1996;  
Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006);  
PA (Masteller & Flint, 1992);  
SC (Morse, Chapin, Herlong, & Harvey, 1980; Moulton & Stewart, 1996);  
SD (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
TN (Etnier, Bauer, & Zirkle, 2006);  
TX (Edwards, 1973; Hamilton & Schuster, 1978; Blickle, 1979; Moulton & Stewart, 1997;  
Houghton & Stewart, 1998; Moulton & Stewart, 1996;  
Abbott, Stewart, & Moulton, 1997; Bowles, Tiemann & Easley, 2007);  
WI (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
WY (Ruiter, 1999);  
Mexico (Bueno-Soria & Flint, 1978; Moulton & Stewart, 1996).  
Hydroptila anisoforicata Parker and Voshell, 1979, VA;  
VA (Parker & Voshell, 1979; Parker & Voshell, 1981;  
Morse et al, 1997; Flint, Hoffman, & Parker, 2004).  
Hydroptila antennopedia Sykora & Harris, 1994, PA;  
male genitalia (Houghton, 2012);  
ME (Sykora & Harris, 1994);  
MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
Houghton, 2022;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

- MN (Sykora & Harris, 1994; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- NH (Sykora & Harris, 1994);
- NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);
- PA (Sykora & Harris, 1994).
- Hydroptila apalachicola* Harris, Pescador & Rasmussen, 1998, FL; male genitalia (Harris, Pescador & Rasmussen, 1998); FL (Harris, Pescador & Rasmussen, 1998; Pescador, Rasmussen, & Harris, 2004; Rasmussen, 2004; Harris, Rasmussen, & Denson, 2012).
- Hydroptila arctia* Ross, 1938, ID; *Hydroptila acoma* Denning, 1947, CA (Blickle, 1979); male genitalia (Blickle, 1979; Bueno-Soria, 1984; Flint, Englund, and Kumashiro, 2003); AZ (Blickle, 1979; Moulton, Stewart, & Young, 1994; Ruiter, 1996; Houghton, 2001; Blinn & Ruiter, 2006; Blinn & Ruiter, 2009a; Blinn & Ruiter, 2009b; Blinn, Ruiter, & Haden, 2012); BC (Denning, 1947; Ross & Spencer, 1952; Blickle, 1979; Nimmo & Scudder, 1983); CA (Resh & Sorg, 1978; Blickle, 1979; McElravy & Resh, 1987; Resh & Mendez, 2022); CO (Flint, & Herrmann, 1976; Herrmann, Ruiter, & Unzicker, 1986; Zuellig, Heinold, Kondratieff, & Ruiter, 2012); HI (Denning & Blickle, 1971, error according to Flint, Englund, and Kumashiro, 2003; Blickle, 1979, error according to Flint, Englund, and Kumashiro, 2003); IA (Blinn, Ruiter, & Flint, 2009; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022); ID (Ross, 1938; Blickle, 1979); MT (Roemhild, 1982); NM (Ruiter, 1999; Vieira, Kondratieff, Ruiter, & Durfee, 2009); NV (Ruiter, Baumann, & Flint, 2014); OR (Anderson & Anderson, 1995); SD (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022); TX (Moulton & Stewart, 1997); UT (Blickle, 1979; Baumann & Unzicker, 1981); WA (Zack, Ruiter, Strenge, & Landolt, 2006; Blinn & Ruiter, 2013); Mexico (Bueno-Soria, 1984, redescription).
- Hydroptila argosa* Ross, 1938, WY; male genitalia (Blickle, 1979); CA (Denning, 1956; Resh & Sorg, 1978; Blickle, 1979; Resh & Mendez, 2022); CO (Herrmann, Ruiter, & Unzicker, 1986; Ruse & Herrmann, 2000; Zuellig, Heinold, Kondratieff, & Ruiter, 2012); ID (Ross, 1938; Blickle, 1979); MT (Blickle, 1979; Roemhild, 1982); NV (Blickle, 1979; Ruiter, Baumann, & Flint, 2014); OR (Blickle, 1979); UT (Blickle, 1979; Baumann & Unzicker, 1981); WA (Blickle, 1979; Newell, Ruiter, & Strenge, 2001; Zack, Ruiter, Strenge, & Landolt, 2006; Blinn & Ruiter, 2013); WY (Ross, 1938; Denning, 1948; Ruiter & Lavigne, 1985).
- Hydroptila armata* Ross, 1938, IN; male genitalia (Blickle, 1979; Houghton, 2012); larva (Keiper & Foote, 1999); AL (Harris et al, 1983; Harris, Lago, & O'Neil, 1984; Harris, 1986; Harris, 1987; Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Hicks & Haynes, 2000a; Hicks & Haynes, 2000b); AR (Unzicker, Aggus, & Warren, 1970; Hamilton & Schuster, 1978; Blickle, 1979);

Bowles & Mathis, 1989; Moulton & Stewart, 1996;  
 Bowles, Cheri, Usrey, & Williams, 2020);  
 IL (Ross, 1938; Harris, 1971; Hamilton & Schuster, 1978;  
 Blickle, 1979; Moulton & Stewart, 1996; Zhou et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1938; Ross, 1944; Hamilton & Schuster, 1978; Blickle, 1979;  
 Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
 DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 FL (Pescador, Rasmussen, & Harris, 1995, 2004; Harris, Rasmussen, & Denson, 2012;  
 Denson, Rasmussen, & Harris, 2016);  
 KS (Hamilton & Schuster, 1978;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Hamilton & Schuster, 1978; Blickle, 1979; Haag, Resh & Neff, 1984;  
 Floyd & Schuster, 1990; Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MB (Flannagan, 1978; Flannagan & Flannagan, 1982; Moulton & Stewart, 1996);  
 MD (Flint, 2008);  
 MI (Ross, 1944; Leonard and Leonard, 1949; Hamilton & Schuster, 1978; Blickle, 1979;  
 Moulton & Stewart, 1996; Ruitter, 2010; Houghton, Brandin, & Brakel, 2011;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Denning, 1947; Etnier, 1965; Hamilton & Schuster, 1978; Blickle, 1979;  
 Moulton & Stewart, 1996; Monson, 1997;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Zhou et al., 2011; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007; Bowles, 2020;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Harris, Lago, & Holzenthal, 1982; Moulton & Stewart, 1996);  
 NC (Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Morse and Blickle, 1957; Hamilton & Schuster, 1978;  
 Blickle, 1979; Moulton & Stewart, 1996);  
 NY (Harris & Lawrence, 1978; Moulton & Stewart, 1996);  
 OH (McElravy, Arsuffi, & Foote, 1977; Petersen & Foote, 1980; Huryn & Foote, 1983;  
 Garono & MacLean, 1988; Keiper & Foote, 1999; Moulton & Stewart, 1996;  
 Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Ross, 1944; Hamilton & Schuster, 1978; Blickle, 1979;  
 Bowles & Mathis, 1992; Moulton & Stewart, 1996;  
 Zuellig, Kondratieff, Schmidt, Durfee, Ruitter, & Prather, 2006);  
 ON (Zhou et al., 2011);  
 PA (Masteller & Flint, 1992);  
 QC (Nimmo, 1966; Corbet, Schmid, & Augustin, 1966;  
 Hamilton & Schuster, 1978; Roy & Harper, 1979;  
 Moulton & Stewart, 1996);  
 SC (Unzicker, Resh, & Morse, 1982; Moulton & Stewart, 1996);  
 TN (Edwards, 1966; Hamilton & Schuster, 1978;  
 Etnier & Schuster, 1979; Moulton & Stewart, 1996;  
 Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005;  
 Etnier, Bauer, & Zirkle, 2006);  
 TX (Edwards, 1973; Hamilton & Schuster, 1978;  
 Moulton & Stewart, 1996;  
 unconfirmed or dubious according to Moulton & Stewart, 1997);  
 VA (Parker & Voshell, 1981; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004);

- WI (Ross, 1938; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hamilton & Schuster, 1978; Blickle, 1979; Hilsenhoff, 1995; Moulton & Stewart, 1996; Flint, 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Tarter & Donahoe, 1988; Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016).
- Hydroptila artesa* Mathis & Bowles, 1990, MO;  
 AR (Mathis & Bowles, 1990; Moulton & Stewart, 1996);  
 MO (Mathis & Bowles, 1990; Mathis & Bowles, 1992; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 VA (Flint, Hoffman, & Parker, 2004).
- Hydroptila auriscuspa* Harris, Rasmussen, & Denson, 2012, FL;  
 FL (Harris, Rasmussen, & Denson, 2012).
- Hydroptila berneri* Ross, 1941, FL;  
 male genitalia (Blickle, 1979);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris, 1986; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 AR (Bowles & Mathis, 1989; Moulton & Stewart, 1996);  
 FL (Ross, 1941; Blickle, 1979; Pescador, Rasmussen, & Harris, 1995, 2004; Moulton & Stewart, 1996; Rasmussen, 2004; Harris, Rasmussen, & Denson, 2012; Denson, Rasmussen, & Harris, 2016);  
 LA (Harris, Lago, & Holzenthal, 1982; Moulton & Stewart, 1996);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965, not this species, Etnier, 1968; Moulton & Stewart, 1996);  
 NC (Moulton & Stewart, 1996);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979; Blickle, 1979; Moulton & Stewart, 1996);  
 SC (Moulton & Stewart, 1996);  
 TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);  
 WI (Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Blickle, 1979; Hilsenhoff, 1995; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Hydroptila blicklei* Sykora & Harris, 1994, ME;  
 ME (Sykora & Harris, 1994);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011).
- Hydroptila bribriae* Harris, 2002, FL;  
 FL (Harris, 2002; Pescador, Rasmussen, & Harris, 2004; Rasmussen, 2004; Harris, Rasmussen, & Denson, 2012).
- Hydroptila broweri* Blickle, 1963, ME  
 male genitalia (Blickle, 1979);  
 AR (Frazer, Robison, & Harris, 1991; Moulton & Stewart, 1996; Bowles, Cheri, Usrey, & Williams, 2020);  
 ME (Blickle, 1963; Blickle, 1979; Moulton & Stewart, 1996);  
 MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007; Etnier, 2010; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NH (Blickle, 1963; Moulton & Stewart, 1996).
- Hydroptila callia* Denning, 1948, NC;  
 male genitalia (Blickle, 1979; Houghton, 2012);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris, Lago, & O'Neil, 1984; Harris, 1986; Harris, 1987; Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991);  
 CO (Blickle, 1979);  
 MI (Leonard and Leonard, 1949; Blickle, 1979);

Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1968; Blickle, 1979; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Denning, 1948; Blickle, 1979; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010;  
 Zhou et al., 2011);  
 NH (Morse and Blickle, 1953; Blickle, 1979);  
 NS (Zhou et al., 2011);  
 OH (Huryn & Foote, 1983; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 PA (Masteller & Flint, 1992);  
 QC (Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1975;  
 Roy & Harper, 1979; Blickle, 1979);  
 SC (Morse, Hamilton, & Hoffman, 1989);  
 TN (Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005);  
 VA (Parker & Voshell, 1981; Flint, Hoffman, & Parker, 2004);  
 WI (Blickle, 1979; Hilsenhoff, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WY (Blickle, 1979).  
*Hydroptila carolae* Holzenthal & Kelley, 1983, SC;  
 SC (Holzenthal & Kelley, 1983).  
*Hydroptila chattanooga* Frazer & Harris, 1991, AL;  
 AL (Frazer & Harris, 1991; Frazer, Harris, & Ward, 1991);  
 ME (Huryn & Harris, 2000);  
 OH (Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 PA (Masteller & Flint, 1992)  
 TN (DeWalt & Heinold, 2005).  
*Hydroptila cheaha* Harris, 1991, AL;  
 AL (Harris, 1991; Harris, O'Neil, & Lago, 1991;  
 Morse et al, 1997).  
*Hydroptila chelops* Harris, 1985, AL;  
 AL (Harris, 1985; Harris, 1986; Harris, 1990;  
 Harris, O'Neil, & Lago, 1991).  
*Hydroptila circangula* Harris, 1985, AL;  
 AL (Harris, 1985; Harris, 1986; Harris, O'Neil, & Lago, 1991; Harris & O'Neil, 2015);  
 FL (Harris, O'Neil, & Lago, 1991; Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004;  
 Harris, Rasmussen, & Denson, 2012; Denson, Rasmussen, & Harris, 2016).  
*Hydroptila consimilis* Morton, 1905, NY, TX;  
 male genitalia (Blickle, 1979);  
 wings & male genitalia (Houghton, 2012);  
 photos of larva & case (Ruiter, Boyle, & Zhou, 2013);  
 transcontinental (Hamilton & Schuster, 1978);  
 AB (Blickle, 1979; Moulton & Stewart, 1996);  
 AL (Harris, 1986; Harris, 1987; Harris, O'Neil, & Lago, 1991;  
 Moulton & Stewart, 1996);  
 AR (Unzicker, Aggus, & Warren, 1970; Blickle, 1979; Bowles & Mathis, 1989;  
 Moulton & Stewart, 1996; Bowles, 2020; Bowles, Cheri, Usrey, & Williams, 2020);  
 AZ (Ross, 1944; Blickle, 1979; Moulton & Stewart, 1996;  
 Houghton, 2001; Blinn & Ruiter, 2006);  
 BC (Ross, 1944; Ross and Spencer, 1952; Blickle, 1979; Moulton & Stewart, 1996);  
 CO (Herrmann, Ruiter, & Unzicker, 1986; Moulton & Stewart, 1996;  
 Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 CT (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 DE (Lake, 1984; Moulton & Stewart, 1996);

IA (Blinn, Ruiter, & Flint, 2009;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

ID (Blickle, 1979; Moulton & Stewart, 1996);

IL (Ross, 1944; Blickle, 1979; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996  
DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

KS (Hamilton & Schuster, 1978; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

KY (Resh, 1975; Blickle, 1979; Haag, Resh & Neff, 1984; Floyd & Schuster, 1990;  
Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006;  
Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MB (Denning, 1947; Flannagan, 1978; Flannagan & Flannagan, 1982;  
Cobb, Flannagan, & Friesen, 1984; Moulton & Stewart, 1996;  
Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruiter, Boyle, & Zhou, 2013);

ME (Blickle, 1979; Moulton & Stewart, 1996);

MI (Leonard and Leonard, 1949; Ellis, 1962; Blickle, 1979;  
Davis, Hudson, & Armitage, 1991; Moulton & Stewart, 1996;  
Houghton, Brandin, & Brakel, 2011; Houghton, 2016;  
Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
Houghton, 2022;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MN (Denning, 1947; Etnier, 1965; Blickle, 1979; MacLean, 1995; Moulton & Stewart, 1996;  
Harris, Kondratieff, & Boyle, 2000; Houghton, Holzenthal, Monson, & MacLean, 2001;  
Houghton & Holzenthal, 2010; Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MO (Harris & Lawrence, 1978; Mathis & Bowles, 1992; Moulton & Stewart, 1996;  
Ferro & Sites, 2007; Bowles, 2020;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MT (Newell, 1970; Roemhild, 1982; Moulton & Stewart, 1996);

NB (Harris & Lawrence, 1978; Moulton & Stewart, 1996);

ND (Ruiter, 1999;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

NH (Morse and Blickle, 1957; Blickle, 1979; Moulton & Stewart, 1996);

NM (Blickle, 1979; Moulton & Stewart, 1996);

NT (Wiens et al, 1975);

NV (Ruiter, Baumann, & Flint, 2014);

NY (Morton, 1905; Blickle, 1979; Moulton & Stewart, 1996);

OH (McElravy, Arsuffi, & Foote, 1977; Masteller & Flint, 1979; Petersen & Foote, 1980;  
Huryn & Foote, 1983; Usis & MacLean, 1986; Garono & MacLean, 1988;  
Moulton & Stewart, 1996; Keiper & Foote, 2000; Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

OK (Ross, 1944; Anderson, 1976; Blickle, 1979; Bowles & Mathis, 1992;  
Moulton & Stewart, 1996;  
Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006);

ON (Singh, Smith, & Harrison, 1984a; Moulton & Stewart, 1996);

OR (Ross, 1944; Blickle, 1979; Masteller & Flint, 1984; Moulton & Stewart, 1996);

PA (Swegman, Walker, & Sykora, 1981; Light & Adler, 1983;  
Masteller & Flint, 1992; Moulton & Stewart, 1996);

QC (Nimmo, 1966; Corbet, Schmid, & Augustin, 1966;  
Roy & Harper, 1979; Moulton & Stewart, 1996);

SC (Biondi, 2011);

SD (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);



- TN (Ross, 1944; Edwards, 1966; Etnier & Schuster, 1979; Blickle, 1979; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998; Etnier, Bauer, & Zirkle, 2006);
- TX (Morton, 1905; Edwards & Arnold, 1961; Edwards, 1973; Blickle, 1979; Moulton & Stewart, 1996; Moulton & Stewart, 1997; Bowles, Tiemann & Easley, 2007);
- UT (Ross, 1944; Blickle, 1979; Baumann & Unzicker, 1981; Moulton & Stewart, 1996);
- VA (Ross, 1944; Blickle, 1979; Parker & Voshell, 1981; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004; Flint, 2011);
- VT (Harris & Lawrence, 1978; Moulton & Stewart, 1996);
- WA (Blickle, 1979; Moulton & Stewart, 1996; Blinn & Ruitter, 2013);
- WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Blickle, 1979; Steven & Hilsenhoff, 1984; Hilsenhoff, 1995; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- WY (Ross, 1944; Ruitter & Lavigne, 1985; Moulton & Stewart, 1996).
- Hydroptila cottaquilla* Harris, 1994, AL;  
*Hydroptila setigera* Harris, 1986 (Harris, 1994);  
 AL (Harris, 1986; Harris, 1990; Harris, O'Neil, & Lago, 1991; Morse et al, 1997).
- Hydroptila coweetensis* Huryn, 1985, NC;  
 AL (Harris, 1986; Harris, 1987; Harris, 1990; Harris, O'Neil, & Lago, 1991; Morse et al, 1997);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Huryn, 1985; Morse et al, 1997; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 VA (Flint, Hoffman, & Parker, 2004).
- Hydroptila cretosa* Harris, 1985, AL;  
 AL (Harris, 1985; Harris, 1986; Harris, 1987; Hicks & Haynes, 2000b);  
 MS (Harris, O'Neil, & Lago, 1991).
- Hydroptila criokera* Harris, Rasmussen, & Denson, 2012, FL;  
 FL (Harris, Rasmussen, & Denson, 2012).
- Hydroptila danieli* Harris & Armitage, 2011, OH;  
 OH (Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Hydroptila decia* Etnier & Way, 1973, TN  
*Hydroptila choco loco* Harris, 1985, AL (Harris & Etnier, 1994);  
 male genitalia (Blickle, 1979; as *Hydroptila choco loco* Harris, 1985 (Harris & Etnier, 1994));  
 AL (as *Hydroptila choco loco* Harris, 1985, Harris, 1986, Harris, O'Neil, & Lago, 1991);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 TN (Etnier & Way, 1973; Blickle, 1979; Morse et al, 1997; Etnier, Baxter, Fraley, & Parker, 1998).
- Hydroptila delineata* Morton, 1905, NY;  
 male genitalia (Blickle, 1979; Houghton, 2012);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris, Lago, & O'Neil, 1984; Harris, 1986; Harris, 1987; Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 AR (Bowles & Mathis, 1989; Moulton & Stewart, 1996);  
 IN (Ross, 1944; Blickle, 1979; Waltz & McCafferty, 1983; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Blickle, 1979; Moulton & Stewart, 1996; Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ME (Huryn & Harris, 2000);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

- MN (Etnier, 1968; Blickle, 1979; Moulton & Stewart, 1996;  
Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NC (Moulton & Stewart, 1996; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
NH (Blickle, 1979; Moulton & Stewart, 1996);  
NS (Ross, 1944; Blickle, 1979; Moulton & Stewart, 1996);  
NY (Morton, 1905; Ross, 1944; Blickle, 1979;  
Moulton & Stewart, 1996);  
OH (Usis & Foote, 1989; Moulton & Stewart, 1996; Armitage et al., 2011);  
PA (Masteller & Flint, 1992);  
QC (Roy & Harper, 1979; Moulton & Stewart, 1996);  
SC (Moulton & Stewart, 1996);  
TN (Etnier, 1973; Blickle, 1979; Moulton & Stewart, 1996;  
Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005);  
VA (Parker & Voshell, 1981; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004;  
Flint, 2011);  
WI (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
WV (Tarter & Donahoe, 1988; Tarter, 1990;  
Moulton & Stewart, 1996; Tarter & Floyd, 2016).
- Hydroptila dentata* Ross, 1938, VA;  
male genitalia (Blickle, 1979);  
ME (Blickle, 1979);  
NH (Blickle, 1979);  
NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
PA (Masteller & Flint, 1992);  
VA (Ross, 1938; Ross, 1944; Blickle, 1979;  
Parker & Voshell, 1981; Flint, Hoffman, & Parker, 2004).
- Hydroptila denza* Ross, 1948, Mexico;  
NM (Waltz & McCafferty, 1983);  
Mexico (Ross, 1948).
- Hydroptila disgalera* Holzenthal & Kelley, 1983, SC;  
AL (Holzenthal & Kelley, 1983; Harris, 1986; Harris, 1987;  
Harris, O'Neil, & Lago, 1991; Hicks & Haynes, 2000a; Harris & O'Neil, 2015);  
FL (Pescador, Rasmussen, & Harris, 2004; Rasmussen, 2004;  
Harris, Rasmussen, & Denson, 2012; Denson, Rasmussen, & Harris, 2016);  
SC (Holzenthal & Kelley, 1983).
- Dominican Republic, Mexico (San Luis Potosi), Ecuador, Peru (Botosaneanu, 2002).
- Hydroptila ebroensis* Harris, Rasmussen, & Denson, 2012, FL;  
FL (Harris, Rasmussen, & Denson, 2012).
- Hydroptila eglinensis* Harris, 2002, FL;  
FL (Harris, 2002; Pescador, Rasmussen, & Harris, 2004; Rasmussen, 2004;  
Harris, Rasmussen, & Denson, 2012).
- Hydroptila englishi* Hamilton, 1989, SC [in work by  
Morse, Hamilton, & Hoffman, 1989];  
NC/SC (Morse et al, 1997);  
NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
SC (Morse, Hamilton, & Hoffman, 1989).
- Hydroptila eramosa* Harper, 1973, ON;  
male genitalia (Blickle, 1979);  
ON (Harper, 1973; Blickle, 1979);  
VA (Parker & Voshell, 1981; Flint, Hoffman, & Parker, 2004).
- Hydroptila fiskei* Blickle, 1963, ME;  
male genitalia (Blickle, 1979);  
KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012);

Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ME (Blickle, 1963; Blickle, 1979; Mingo & Gibbs, 1980; Hury & Harris, 2000);  
 MI (Houghton, 2020; Houghton, 2022);  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Houghton, 2020);  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Morse, Hamilton, & Hoffman, 1989; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Blickle, 1979);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 ON (Houghton, 2020);  
 PA (Masteller & Flint, 1992);  
 TN (DeWalt & Heinold, 2005);  
 VA (Parker & Voshell, 1981; Flint, Hoffman, & Parker, 2004; Flint, 2014).  
*Hydroptila fowelsi* Harris & Sykora, 1996, WV;  
 OH (Armitage et al., 2011);  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Harris & Sykora, 1996).  
*Hydroptila fuscina* Harris, 1985, AL;  
 AL (Harris, 1985; Harris, 1986; Harris, 1987; Harris, 1990;  
 Harris, O'Neil, & Lago, 1991; Morse et al, 1997).  
*Hydroptila grandiosa* Ross, 1938, IL;  
 male genitalia (Blickle, 1979; Houghton, 2012);  
 AL (Harris et al, 1983; Harris, 1986; Harris, 1987; Harris, 1990;  
 Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 AR (Unzicker, Aggus, & Warren, 1970; Hamilton & Schuster, 1978; Blickle, 1979;  
 Bowles & Mathis, 1989; Moulton & Stewart, 1996;  
 Bowles, Cheri, Usrey, & Williams, 2020);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1938; Ross, 1944; Hamilton & Schuster, 1978; Blickle, 1979; Moulton & Stewart, 1996;  
 Zhou et al., 2011);  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1938; Ross, 1944; Hamilton & Schuster, 1978; Blickle, 1979;  
 Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
 DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton & Schuster, 1978; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Blickle, 1979; Floyd, 1992; Moulton & Stewart, 1996;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MB (Flannagan, 1978; Flannagan & Flannagan, 1982; Moulton & Stewart, 1996);  
 MI (Houghton, Brandin, & Brakel, 2011; Wright, Pytel, & Houghton, 2013; Houghton, 2016;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Denning, 1947; Etnier, 1965; Hamilton & Schuster, 1978; Blickle, 1979;  
 Moulton & Stewart, 1996; Monson, 1997;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Ross, 1944; Hamilton & Schuster, 1978; Blickle, 1979; Mathis & Bowles, 1992;  
 Moulton & Stewart, 1996; Ferro & Sites, 2007;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Harris, Lago, & Holzenthal, 1982; Moulton & Stewart, 1996);  
 OH (McElravy, Arsuffi, & Foote, 1977; Hury & Foote, 1983; Usis & MacLean, 1986;  
 Moulton & Stewart, 1996; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

- OK (Ross, 1944; Hamilton & Schuster, 1978; Blickle, 1979;  
Bowles & Mathis, 1992; Moulton & Stewart, 1996);  
PA (Masteller & Flint, 1992);  
TN (Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005);  
TX (Edwards, 1973; Hamilton & Schuster, 1978; Moulton & Stewart, 1996;  
Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);  
VA (Parker & Voshell, 1981; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004);  
WI (Ross, 1944; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
Hamilton & Schuster, 1978; Blickle, 1979; Steven & Hilsenhoff, 1984; Hilsenhoff, 1995;  
Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
WV (Tarter & Donahoe, 1988; Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016).
- Hydroptila gunda* Milne, 1936, VA;  
*Hydroptila dodgei* Denning, 1947, GA (Blickle, 1979);  
male genitalia (Blickle, 1979);  
AL (Harris, Lago, & O'Neil, 1984; Harris, 1986; Harris, 1987;  
Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991;  
Hicks & Haynes, 2000a; Hicks & Haynes, 2000b; Harris & O'Neil, 2015);  
CT (Harris, O'Neil, & Lago, 1991);  
GA (Blickle, 1979);  
IL (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
IN (Waltz & McCafferty, 1983;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
FL (Harris, Rasmussen, & Denson, 2012; Denson, Rasmussen, & Harris, 2016);  
KY (Floyd & Schuster, 1990; Etnier, Bauer, & Zirkle, 2006;  
Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
ME (Huryn & Harris, 2000);  
MS (Harris, Lago, & Holzenthal, 1982);  
NC (Morse, Hamilton, & Hoffman, 1989; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
NH (Morse and Blickle, 1953; Blickle, 1979);  
NJ (Milne, 1936);  
OH (Usis & Foote, 1989; Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
PA (Masteller & Flint, 1992);  
QC (Roy & Harper, 1979);  
SC (Morse, Hamilton, & Hoffman, 1989; Floyd & Morse, 1993;  
Floyd, Morse, & Harris, 1997);  
TN (Harris, O'Neil, & Lago, 1991; Etnier, Baxter, Fraley, & Parker, 1998;  
Etnier, Bauer, & Zirkle, 2006);  
VA (Milne, 1936; Ross, 1944; Blickle, 1979; Parker & Voshell, 1981;  
Flint, Hoffman, & Parker, 2004; Flint, 2011).
- Hydroptila hamata* Morton, 1905, NY;  
internal female genitalia (Unzicker, 1968);  
male genitalia (Blickle, 1979; Bueno-Soria, 1984; Houghton, 2012);  
GA/SC (Hudson & Nichols, 1986);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
OK/TX (Resh, White, & White, 1978);  
AL (Harris et al, 1983; Harris, Lago, & O'Neil, 1984;  
Harris, 1986; Harris, 1987; Frazer, Harris, & Ward, 1991;  
Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996;  
Hicks & Haynes, 2000a; Hicks & Haynes, 2000b);  
AR (Ross, 1944; Blickle, 1979; Bowles & Mathis, 1989; Moulton & Stewart, 1996;  
Bowles, Cheri, Usrey, & Williams, 2020);  
AZ (Ross, 1944; Blickle, 1979; Moulton & Stewart, 1996);

Houghton, 2001; Blinn & Ruiter, 2006; Blinn & Ruiter, 2009a; Blinn & Ruiter, 2009b);  
 CA (Blickle, 1979; Moulton & Stewart, 1996; Resh & Mendez, 2022);  
 CO (Blickle, 1979; Moulton & Stewart, 1996);  
 CT (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 FL (Harris, Lago, & Scheiring, 1982; Pescador, Rasmussen, & Harris, 1995, 2004;  
 Moulton & Stewart, 1996; Harris, Rasmussen, & Denson, 2012;  
 Denson, Rasmussen, & Harris, 2016);  
 GA (Moulton & Stewart, 1996);  
 ID (Blickle, 1979; Moulton & Stewart, 1996);  
 IL (Ross, 1944; Harris, 1971; Blickle, 1979; Moulton & Stewart, 1996; Zhou et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1944; Blickle, 1979; Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Ross, 1944; Resh, 1975; Blickle, 1979; Haag, Resh, & Neff, 1984; Floyd & Schuster, 1990;  
 Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Harris, Lago, & Holzenthal, 1982; Moulton & Stewart, 1996);  
 MB (Flannagan & Flannagan, 1982; Moulton & Stewart, 1996);  
 ME (Blickle, 1979; Moulton & Stewart, 1996; Huryn & Harris, 2000);  
 MI (Ross, 1944; Blickle, 1979; Leonard and Leonard, 1949; Moulton & Stewart, 1996;  
 Houghton, Brandin, & Brakel, 2011;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Denning, 1947; Etnier, 1965; Blickle, 1979; MacLean, 1995;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Ross, 1944; Blickle, 1979; Mathis & Bowles, 1992; Moulton & Stewart, 1996;  
 Ferro & Sites, 2007; Bowles, 2020;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Harris, Lago, & Holzenthal, 1982; Moulton & Stewart, 1996);  
 MT (Newell, 1970; Roemhild, 1982; Moulton & Stewart, 1996);  
 NC (Ross, 1944; Wray, 1950; Blickle, 1979;  
 Morse, Hamilton, & Hoffman, 1989; Moulton & Stewart, 1996;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Morse and Blickle, 1953; Blickle, 1979; Moulton & Stewart, 1996);  
 NM (Ross, 1944; Blickle, 1979; Moulton & Stewart, 1996);  
 NY (Morton, 1905; Ross, 1944; Blickle, 1979; Bilger, 1986;  
 Moulton & Stewart, 1996; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Marshall, 1939; Petersen & Foote, 1980; Huryn & Foote, 1983; Usis & MacLean, 1986;  
 Garono & MacLean, 1988; Moulton & Stewart, 1996; Moulton & Stewart, 1996;  
 Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Ross, 1944; Blickle, 1979; Bowles & Mathis, 1992; Moulton & Stewart, 1996;  
 Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006);  
 ON (Ross, 1944; Blickle, 1979; Moulton & Stewart, 1996; Zhou et al., 2011);  
 OR (Ross, 1944; Anderson, 1976; Blickle, 1979; Moulton & Stewart, 1996);  
 PA (Ross, 1944; Blickle, 1979; Masteller & Flint, 1992; Moulton & Stewart, 1996);  
 QC (Nimmo, 1966; Corbet, Schmid, & Augustin, 1966;  
 Roy & Harper, 1979; Moulton & Stewart, 1996);  
 SC (Morse, Hamilton, & Hoffman, 1989; Moulton & Stewart, 1996;  
 Floyd, Morse, & Harris, 1997);  
 TN (Etnier & Schuster, 1979; Moulton & Stewart, 1996;  
 Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005);

- Etnier, Bauer, & Zirkle, 2006);  
 TX (Ross, 1944; Hall, 1950; Edwards, 1973; Blickle, 1979;  
 Moulton & Stewart, 1996; Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997;  
 Bowles, Tiemann & Easley, 2007);  
 UT (Blickle, 1979; Baumann & Unzicker, 1981; Moulton & Stewart, 1996);  
 VA (Ross, 1944; Blickle, 1979; Parker & Voshell, 1981; Flint, Hoffman, & Parker, 2004;  
 Flint, 2014);  
 VT (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 WA (Ross, 1944; Blickle, 1979; Moulton & Stewart, 1996; Blinn & Ruiter, 2013);  
 WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
 Steven & Hilsenhoff, 1984; Hilsenhoff, 1995); Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022  
 WV (Bueno-Soria, 1984; Tarter & Donahoe, 1988; Tarter, 1990;  
 Moulton & Stewart, 1996; Tarter & Floyd, 2016);  
 WY (Ross, 1944; Blickle, 1979; Ruiter & Lavigne, 1985;  
 Moulton & Stewart, 1996);  
 "Mexico" (Bueno-Soria & Flint, 1978; Moulton & Stewart, 1996).
- Hydroptila hamiltoni* Harris, 2002, FL;  
 FL (Harris, 2002; Pescador, Rasmussen, & Harris, 2004; Rasmussen, 2004;  
 Harris, Rasmussen, & Denson, 2012).
- Hydroptila holzenthali* Sykora & Harris, 1994, MS;  
 MS (Sykora & Harris, 1994).
- Hydroptila homochitta* Harris & Sykora, 1996, MS;  
 MS (Harris & Sykora, 1996).
- Hydroptila howelli* RE Houp, KH Houp, & SC Harris, 1998, KY;  
 male genitalia (RE Houp, RH Houp & SC Harris, 1998);  
 KY (RE Houp, KH Houp, & SC Harris, 1998;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Hydroptila icona* Mosely, 1937, Mexico;  
 male genitalia (Blickle, 1979; Bueno-Soria, 1984; Harris, Rasmussen, & Denson, 2012);  
 female genitalia (Flint, Englund, and Kumashiro, 2003);  
 OK/TX (Resh, White, & White, 1978);  
 AZ (Blickle, 1979; Moulton, Stewart, & Young, 1994; Moulton & Stewart, 1996;  
 Blinn & Ruiter, 2006; Blinn & Ruiter, 2009a; Blinn & Ruiter, 2009b;  
 Blinn, Ruiter, & Haden, 2012);  
 CA (Blickle, 1979; Moulton & Stewart, 1996; Tozer, 2022; Resh & Mendez, 2022);  
 CO (Herrmann, Ruiter, & Unzicker, 1986; Moulton & Stewart, 1996);  
 FL (Harris, Rasmussen, & Denson, 2012);  
 HI (Flint, Englund, and Kumashiro, 2003);  
 NM (Blickle, 1979; Moulton & Stewart, 1996);  
 OK (Ross, 1944; Blickle, 1979; Bowles & Mathis, 1992;  
 Moulton & Stewart, 1996);  
 TX (Ross, 1944; Cloud & Stewart, 1974; Blickle, 1979;  
 Houghton & Stewart, 1998; Moulton & Stewart, 1996; Moulton & Stewart, 1997;  
 Bowles, Tiemann & Easley, 2007);  
 Mexico (Mosely, 1937; Bueno-Soria, 1984; Moulton & Stewart, 1996);  
 Honduras (Bueno-Soria & Flint, 1978);  
 Panama (Flint, Englund, and Kumashiro, 2003).
- Hydroptila jackmanni* Blickle, 1963, ME;  
 male genitalia (Blickle, 1979; Houghton, 2012);  
 female genitalia (Hurn, 1983);  
 AL (Harris, Kondratieff, & Stark, 1996);  
 IN (Waltz & McCafferty, 1983;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

- KY (Etnier, Bauer, & Zirkle, 2006; Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MB (Cobb, Flannagan, & Friesen, 1984);
- ME (Blickle, 1963; Blickle, 1979);
- MI (Houghton, Brandin, & Brakel, 2011; Houghton, 2016; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018; Houghton, 2022; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MN (Etnier, 1965; Blickle, 1979; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- NH (Blickle, 1963);
- OH (McElravy, Arsuffi, & Foote, 1977; Huryn, 1983; Huryn & Foote, 1983; Usis & MacLean, 1986; Garono & MacLean, 1988; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- PA (Swegman, Walker, & Sykora, 1981; Masteller & Flint, 1992);
- QC (Roy & Harper, 1979);
- TN (Etnier, Bauer, & Zirkle, 2006);
- VA (Parker & Voshell, 1979; Flint, Hoffman, & Parker, 2004);
- WI (Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Blickle, 1979; Steven & Hilsenhoff, 1984; Hilsenhoff, 1995; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- WY (Ruiter & Lavigne, 1985).
- Hydroptila koryaki* Harris & Sykora, 1996, WV;  
OH (Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
WV (Harris & Sykora, 1996; Tarter & Floyd, 2016).
- Hydroptila kuehnei* RE Houp, KH Houp, & SC Harris, 1998, KY;  
male genitalia (RE Houp, RH Houp, & SC Harris, 1998);  
KY (RE Houp, KH Houp, & SC Harris, 1998; Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Hydroptila lagoi* Harris, 1985, AL;  
AL (Harris, 1985; Harris, 1986; Harris, 1987; Harris, 1990; Harris, O'Neil, & Lago, 1991; Morse et al, 1997).
- Hydroptila latosa* Ross, 1947, GA;  
male genitalia (Blickle, 1979; Harris, Rasmussen, & Denson, 2012);  
AL (Harris, 1986; Harris, O'Neil, & Lago, 1991; Harris & O'Neil, 2015);  
FL (Harris, Lago, & Scheiring, 1982; Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004; Harris, Rasmussen, & Denson, 2012; Denson, Rasmussen, & Harris, 2016);  
GA (Ross, 1947; Blickle, 1979);  
SC (Biondi, 2011).
- Hydroptila lennoxii* Blickle, 1969, NH;  
male genitalia (Blickle, 1979);  
AL (Harris, 1990; Harris, O'Neil, & Lago, 1991);  
KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NH (Blickle, 1969; Blickle, 1979);  
OH (Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
VA (Flint, Hoffman, & Parker, 2004).
- Hydroptila lenora* Blickle & Denning, 1977, OR  
male genitalia (Blickle, 1979);  
OR (Blickle, & Denning, 1977; Blickle, 1979).

*Hydroptila licina* Frazer & Harris, 1991, AL;  
 AL (Frazer & Harris, 1991; Frazer, Harris, & Ward, 1991);  
 GA (Frazer & Harris, 1991; Frazer, Harris, & Ward, 1991).

*Hydroptila lloganae* Blickle, 1961, FL  
*Hydroptila morsei* Sykora & Harris, 1994 (Etnier & Baxter, 1999);  
 male genitalia (Blickle, 1979; Etnier & Baxter, 1999; Harris, Rasmussen, & Denson, 2012);  
 FL (Blickle, 1961; Blickle, 1979; Sykora & Harris, 1994;  
 Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004;  
 Harris, Rasmussen, & Denson, 2012);  
 LA (Etnier & Baxter, 1999);  
 NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 SC (Sykora & Harris, 1994; Etnier & Baxter, 1999);  
 TX (Sykora & Harris, 1994; Moulton & Stewart, 1997).

*Hydroptila lonchera* Blickle and Morse, 1954, NH;  
 male genitalia (Blickle, 1979);  
 AL (Harris, 1986; Harris, O'Neil, & Lago, 1991);  
 NH (Blickle & Morse, 1954; Blickle, 1979);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Usis & Foote, 1989; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 VA (Flint, Hoffman, & Parker, 2004; Flint, 2014; Flint, 2017).

*Hydroptila maculata* Banks, 1904a, VA;  
*Hydroptila transversa* Banks, 1907, DC (Ross, 1938);  
 male genitalia (Blickle, 1979; Harris, Rasmussen, & Denson, 2012);  
 DC (Banks, 1904b; Blickle, 1979);  
 FL (Blickle, 1979; Pescador, Rasmussen, & Harris, 1995, 2004;  
 Harris, Rasmussen, & Denson, 2012);  
 ME (Blickle, 1979);  
 NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Blickle, 1979);  
 VA (Banks, 1904a; Blickle, 1979; Flint, Hoffman, & Parker, 2004).

*Hydroptila melia* Ross, 1938, OK;  
 male genitalia (Blickle, 1979);  
 OK (Ross, 1938; Blickle, 1979; Bowles & Mathis, 1992;  
 Moulton & Stewart, 1996);  
 TX (Moulton & Stewart, 1996; Moulton & Stewart, 1997; Bowles, Tiemann & Easley, 2007).

*Hydroptila metoeca* Blickle & Morse, 1954, NH;  
 male genitalia (Blickle, 1979; Houghton, 2012);  
 DE (Lake, 1984; Blickle, 1979);  
 ME (Blickle, 1979; Huryn & Harris, 2000);  
 MI (Houghton, Brandin, & Brakel, 2011; Wright, Pytel, & Houghton, 2013; Houghton, 2015;  
 Houghton, 2016;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1968; Blickle, 1979; Houghton, Holzenthal, Monson, & MacLean, 2001;  
 Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Blickle, 1979; Marshall & Larson, 1982);  
 NH (Blickle, & Morse, 1954; Blickle, 1979);  
 NJ (Blickle, 1979);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Usis & Foote, 1989; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 PA (Masteller & Flint, 1992);  
 VA (Parker & Voshell, 1981; Flint, Hoffman, & Parker, 2004);



WI (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).

*Hydroptila metteei* Harris, 1991, AL;  
 AL (Harris, 1991; Harris, O'Neil, & Lago, 1991;  
 Morse et al, 1997);  
 FL (Harris, Rasmussen, & Denson, 2012; Denson, Rasmussen, & Harris, 2016);

*Hydroptila micropotamis* Harris, 1989, AL;  
 AL (Harris, 1989; Harris, 1990; Frazer, Harris, & Ward, 1991;  
 Harris, O'Neil, & Lago, 1991; Morse et al, 1997);  
 GA (Frazer, Harris, & Ward, 1991).

*Hydroptila modica* Mosely, 1937, Mexico;  
 male genitalia (Blickle, 1979);  
 AZ (Blickle, 1979; Blinn & Ruiter, 2006);  
 NM (Vieira, Kondratieff, Ruiter, & Durfee, 2009);  
 OR (Blickle, 1979);  
 TX (Moulton & Stewart, 1997; Bowles, Tiemann & Easley, 2007);  
 WA (Newell, Ruiter, & Streng, 2001; Blinn & Ruiter, 2013);  
 Mexico (Mosely, 1937).

*Hydroptila molsonae* Blickle, 1961, FL;  
 male genitalia (Blickle, 1979);  
 AL (Harris, 1986; Harris, O'Neil, & Lago, 1991; Harris & O'Neil, 2015);  
 FL (Blickle, 1961; Blickle, 1979; Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004;  
 Harris, Rasmussen, & Denson, 2012; Denson, Rasmussen, & Harris, 2016);  
 LA (Harris, Lago, & Holzenthal, 1982);  
 MS (Harris, Lago, & Holzenthal, 1982).

*Hydroptila murtlei* Harris, Rasmussen, & Denson, 2012, FL;  
 FL (Harris, Rasmussen, & Denson, 2012; Denson, Rasmussen, & Harris, 2016).

*Hydroptila nicoli* Ross, 1941, NS  
 male genitalia (Blickle, 1979);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NS (Ross, 1941; Blickle, 1979);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 VA (Flint, 2014; Flint, 2017).

*Hydroptila novicola* Blickle and Morse, 1954, NH;  
 male genitalia (Blickle, 1979; Harris, Rasmussen, & Denson, 2012; Houghton, 2012);  
 AL (Harris et al, 1983; Harris, Lago, & O'Neil, 1984;  
 Harris, 1986; Harris, 1987; Frazer, Harris, & Ward, 1991;  
 Harris, O'Neil, & Lago, 1991; Hicks & Haynes, 2000a;  
 Hicks & Haynes, 2000b; Harris & O'Neil, 2015);  
 FL (Pescador, Rasmussen, & Harris, 2004; Rasmussen, 2004;  
 Harris, Rasmussen, & Denson, 2012);  
 GA (Harris, O'Neil, & Lago, 1991);  
 LA (Harris, O'Neil, & Lago, 1991);  
 ME (Blickle, 1979; Huryn & Harris, 2000);  
 MI (Houghton, 2016;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1968; Blickle, 1979; Houghton, Holzenthal, Monson, & MacLean, 2001;  
 Houghton & Holzenthal, 2003; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Harris, Lago, & Holzenthal, 1982);  
 NH (Blickle & Morse, 1954; Blickle, 1979);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 QC (Roy & Harper, 1979);

- TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997).
- Hydroptila oakmulgeensis* Harris, 1985, AL;  
AL (Harris, 1985; Harris, 1986; Harris, 1987;  
Harris, O'Neil, & Lago, 1991; Hicks & Haynes, 2000a).
- Hydroptila okaloosa* Harris, 2002, FL;  
FL (Harris, 2002; Rasmussen, 2004; Harris, Rasmussen, & Denson, 2012).
- Hydroptila oneili* Harris, 1985, AL;  
AL (Harris, 1985; Harris, 1986; Harris, 1987; Frazer, Harris, & Ward, 1991;  
Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Hicks & Haynes, 2000a);  
AR (Moulton & Stewart, 1996);  
GA (Frazer, Harris, & Ward, 1991; Moulton & Stewart, 1996);  
KY (Etnier, Bauer, & Zirkle, 2006; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MO (Ferro & Sites, 2007;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
TN (Etnier, Baxter, Fraley, & Parker, 1998; Etnier, Bauer, & Zirkle, 2006;  
DeWalt, Jacobus, & McCafferty, 2007).
- Hydroptila ouachita* Holzenthal & Kelley, 1983, LA;  
LA (Holzenthal & Kelley, 1983)  
TX (Moulton & Stewart, 1997).
- Hydroptila parachelops* Sykora & Harris, 1994, PA;  
ME (Sykora & Harris, 1994);  
PA (Sykora & Harris, 1994).
- Hydroptila paralatosa* Harris, 1985, AL;  
AL (Harris, 1985; Harris, 1986; Harris, 1987;  
Harris, O'Neil, & Lago, 1991; Hicks & Haynes, 2000a)  
FL (Harris, Rasmussen, & Denson, 2012; Denson, Rasmussen, & Harris, 2016).
- Hydroptila paramoena* Harris, 1985, AL;  
AL (Harris, 1985; Harris, 1986; Harris, 1987;  
Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991;  
Hicks & Haynes, 2000a);  
GA (Frazer, Harris, & Ward, 1991)  
KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022)  
TN (Etnier, Baxter, Fraley, & Parker, 1998).
- Hydroptila parastrepha* Kelley & Harris, 1983, AL;  
AL (Kelley & Harris, 1983; Harris, 1986; Harris, 1990;  
Harris, O'Neil, & Lago, 1991);  
FL (Harris, O'Neil, & Lago, 1991; Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004;  
Harris, Rasmussen, & Denson, 2012).
- Hydroptila paraxella* Harris & Armitage, 2011, OH;  
KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
OH (Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Hydroptila patriciae* Harris, 1985, AL;  
AL (Harris, 1985; Harris, 1986; Harris, 1987; Harris, 1990;  
Harris, O'Neil, & Lago, 1991)  
TN (Etnier, Baxter, Fraley, & Parker, 1998).
- Hydroptila pecos* Ross, 1941, NM;  
male genitalia (Blickle, 1979);  
AZ (Blickle, 1979; Blinn & Ruiter, 2006);  
CO (Denning, 1948; Hamilton & Schuster, 1978; Blickle, 1979;  
Herrmann, Ruiter, & Unzicker, 1986; Ruse & Herrmann, 2000;  
Zuellig, Heinold, Kondratieff, & Ruiter, 2012);

KS (Hamilton & Schuster, 1978;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Ruiter, 1999);  
 NE (Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NM (Ross, 1941; Hamilton & Schuster, 1978; Blickle, 1979);  
 SD (Ruiter, 1999;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 TX (Moulton & Stewart, 1997);  
 WY (Denning, 1948; Hamilton & Schuster, 1978; Blickle, 1979; Ruiter & Lavigne, 1985;  
     Zuellig, Pineda, & Kondratieff, 2002).  
 Hydroptila perdita Morton, 1905, NY;  
     male genitalia (Blickle, 1979; Houghton, 2012);  
     larva (Keiper & Foote, 1999);  
 AL (Harris et al, 1983; Harris, 1986; Harris, 1987;  
     Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 AR (Ross, 1944; Unzicker, Aggus, & Warren, 1970; Hamilton & Schuster, 1978; Blickle, 1979;  
     Bowles & Mathis, 1989; Moulton & Stewart, 1996; Bowles, 2020;  
     Bowles, Cheri, Usrey, & Williams, 2020);  
 DE (Lake, 1984; Moulton & Stewart, 1996);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1944; Hamilton & Schuster, 1978; Blickle, 1979; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
     DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton & Schuster, 1978; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Hamilton & Schuster, 1978; Blickle, 1979; Haag, Resh & Neff, 1984;  
     Floyd, 1992; Moulton & Stewart, 1996);  
     Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022  
 MB (Flannagan, 1978; Flannagan & Flannagan, 1982;  
     Flannagan & MacDonald, 1982; Moulton & Stewart, 1996);  
 MD (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 MI (Ross, 1944; Leonard and Leonard, 1949; Hamilton & Schuster, 1978; Blickle, 1979;  
     Moulton & Stewart, 1996;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Denning, 1947; Etnier, 1965; Hamilton & Schuster, 1978; Blickle, 1979;  
     Moulton & Stewart, 1996; Monson, 1997;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Harris & Lawrence, 1978; Mathis & Bowles, 1992; Moulton & Stewart, 1996;  
     Ferro & Sites, 2007; Bowles, 2020;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NH (Blickle, 1979; Moulton & Stewart, 1996);  
 NY (Morton, 1905; Ross, 1944; Hamilton & Schuster, 1978; Blickle, 1979;  
     Moulton & Stewart, 1996);  
 OH (McElravy, Arsuffi, & Foote, 1977; Petersen & Foote, 1980; Huryn & Foote, 1983;  
     Usis & MacLean, 1986; Garono & MacLean, 1988; Keiper & Foote, 1999;  
     Moulton & Stewart, 1996; Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Bowles & Mathis, 1992; Moulton & Stewart, 1996;  
     Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006);

- ON (Ross, 1944; Hamilton & Schuster, 1978; Blickle, 1979;  
Flannagan & MacDonald, 1982; Moulton & Stewart, 1996);
- PA (Ross, 1944; Hamilton & Schuster, 1978; Blickle, 1979;  
Masteller & Flint, 1992; Moulton & Stewart, 1996);
- QC (Nimmo, 1966; Corbet, Schmid, & Augustin, 1966;  
Hamilton & Schuster, 1978; Roy & Harper, 1979;  
Flannagan & MacDonald, 1982; Moulton & Stewart, 1996);
- TN (Etnier, Bauer, & Zirkle, 2006);
- VA (Flint, Hoffman, & Parker, 2004; Flint, 2011);
- WI (Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Blickle, 1979; Hilsenhoff, 1995;  
Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- WV (Tarter & Donahoe, 1988; Tarter, 1990;  
Moulton & Stewart, 1996; Tarter & Floyd, 2016).
- Hydroptila poirrieri* Holzenthal & Kelley, 1983, MS;  
LA (Harris, Lago, & Holzenthal, 1982; Holzenthal & Kelley, 1983);  
MO (Etnier, 2010;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MS (Holzenthal & Kelley, 1983; Harris, Lago, & Holzenthal, 1982).
- Hydroptila potosina* Bueno-Soria, 1984, Mexico (San Luis Potosi);  
Male and female genitalia (Flint, Englund, and Kumashiro, 2003);  
HI (Joyce, 1969; Polhemus, 1995; Flint, Englund, & Kumashiro, 2003);  
TX (Moulton & Stewart, 1997; Flint, Englund, and Kumashiro, 2003; Bandera Co, Medina R. and  
Val Verde Co, San Felipe Spr, Del Rio, and Val Verde Co, Devils R, Dolan Falls, Flint  
personal communication;  
Bowles, Tiemann & Easley, 2007);  
Mexico (Bueno-Soria, 1984).
- Hydroptila protera* Ross, 1938, OK;  
male genitalia (Blickle, 1979);  
OK (Ross, 1938; Ross, 1944; Blickle, 1979; Bowles & Mathis, 1992;  
Moulton & Stewart, 1996);  
TX (Moulton & Stewart, 1996; Bowles, Tiemann & Easley, 2007; Moulton & Stewart, 1997).
- Hydroptila pullatus* Denning, 1948, WY  
male genitalia (Blickle, 1979);  
WY (Denning, 1948; Blickle, 1979; Ruiter & Lavigne, 1985).
- Hydroptila quinola* Ross, 1947, ON;  
male genitalia (Blickle, 1979; Houghton, 2012);  
NC/SC (Unzicker, Resh, & Unzicker, 1982);  
AL (Harris et al, 1983; Harris, Lago, & O'Neil, 1984;  
Harris, 1986; Harris, 1987; Harris, O'Neil, & Lago, 1991;  
Moulton & Stewart, 1996; Hicks & Haynes, 2000a;  
Hicks & Haynes, 2000b; Harris & O'Neil, 2015; Denson, Rasmussen, & Harris, 2016);  
AR (Bowles & Mathis, 1989; Moulton & Stewart, 1996; Etnier, 2010);  
CT (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
FL (Blickle, 1979; Harris, Lago, & Scheiring, 1982;  
Pescador, Rasmussen, & Harris, 1995, 2004; Moulton & Stewart, 1996;  
Rasmussen, 2004; Harris, Rasmussen, & Denson, 2012;  
Denson, Rasmussen, & Harris, 2016);  
GA (Frazer, Harris, & Ward, 1991; Moulton & Stewart, 1996);  
KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
ME (Blickle, 1979; Moulton & Stewart, 1996; Huryn & Harris, 2000);  
MI (Houghton, 2016;  
Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

- MN (Etnier, 1968; Blickle, 1979; Moulton & Stewart, 1996; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MS (Harris, Lago, & Holzenthal, 1982; Moulton & Stewart, 1996);
- NC (Moulton & Stewart, 1996; Floyd, Morse, & Harris, 1997; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);
- NH (Morse and Blickle, 1957; Blickle, 1979; Moulton & Stewart, 1996);
- ON (Ross, 1947; Blickle, 1979; Moulton & Stewart, 1996);
- PA (Masteller & Flint, 1992);
- QC (Roy & Harper, 1975; Roy & Harper, 1979; Blickle 1979; Moulton & Stewart, 1996);
- SC (Morse et al, 1979; Morse, Hamilton, & Hoffman, 1989; Floyd & Morse, 1993; Moulton & Stewart, 1996; Floyd, Morse, & Harris, 1997);
- TN (Etnier, Baxter, Fraley, & Parker, 1998);
- TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);
- VA (Parker & Voshell, 1981; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004);
- WI (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Hydroptila recurvata* Harris & Kelley, 1984, AL;  
AL (Harris & Kelley, 1984; Harris, 1986; Harris, 1987; Harris, 1990; Harris, O'Neil, & Lago, 1991).
- Hydroptila remita* Blickle and Morse, 1954, NH;  
male genitalia (Blickle, 1979);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
AL (Harris, 1986; Harris, 1987; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Hicks & Haynes, 2000a; Harris & O'Neil, 2015);  
AR (Moulton & Stewart, 1996; Etnier, 2010);  
FL (Blickle, 1979; Harris, Lago, & Scheiring, 1982; Pescador, Rasmussen, & Harris, 1995, 2004; Moulton & Stewart, 1996; Rasmussen, 2004; Harris, Rasmussen, & Denson, 2012; Denson, Rasmussen, & Harris, 2016);  
KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
LA (Harris, Lago, & Holzenthal, 1982; Moulton & Stewart, 1996);  
ME (Blickle, 1979; Moulton & Stewart, 1996; Huryn & Harris, 2000);  
MS (Harris, Lago, & Holzenthal, 1982; Moulton & Stewart, 1996);  
NC (Moulton & Stewart, 1996; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);  
NH (Blickle & Morse, 1954; Blickle, 1979; Moulton & Stewart, 1996);  
NJ (Blickle, 1979; Moulton & Stewart, 1996);  
PA (Harris, O'Neil, & Lago, 1991; Masteller & Flint, 1992; Moulton & Stewart, 1996);  
SC (Morse, Chapin, Herlong, & Harvey, 1980; Moulton & Stewart, 1996);  
TN (Etnier & Schuster, 1979; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998);  
TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);  
VA (Flint, Hoffman, & Parker, 2008).
- Hydroptila roberta* Hamilton & Holzenthal, 1986, GA;  
GA (Hamilton & Holzenthal, 1986).
- Hydroptila rono* Ross, 1941, UT;  
male genitalia (Blickle, 1979; Bueno-Soria, 1984; Houghton, 2012);  
AZ (Blickle, 1979; Moulton, Stewart, & Young, 1994; Ruiter, 1996; Houghton, 2001; Blinn & Ruiter, 2006; Blinn & Ruiter, 2009b; Blinn, Ruiter, & Haden, 2012);  
BC (Ross and Spencer, 1952; Hamilton & Schuster, 1978; Nimmo & Scudder, 1983);  
CA (Denning, 1956; Hamilton & Schuster, 1978; Blickle, 1979; Erman, 1987; Erman, 1989; Erman & Erman, 1990; Givens, 2014; Resh & Mendez, 2022);  
CO (Ross, 1941; Blickle, 1979; Herrmann, Ruiter, & Unzicker, 1986; DeWalt, Stewart, Moulton, & Kennedy, 1994; Ruiter, 1996; Zuellig, Heinold, Kondratieff, & Ruiter, 2012);

- KS (Hamilton & Schuster, 1978;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MN (Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MT (Ross, 1941; Newell, 1970; Hamilton & Schuster, 1978; Blickle, 1979; Roemhild, 1982);
- NM (Waltz & McCafferty, 1983; Vieira, Kondratieff, Ruiter, & Durfee, 2009);
- NV (Blickle, 1979; Ruiter, Baumann, & Flint, 2014);
- OR (Anderson, 1967; Anderson, 1976; Hamilton & Schuster, 1978;  
Blickle, 1979; Anderson & Anderson, 1995);
- PA (Light & Adler, 1983; Masteller & Flint, 1992);
- QC (Roy & Harper, 1979; Harper, 1989);
- TX (Moulton & Stewart, 1997);
- UT (Ross, 1941; Hamilton & Schuster, 1978;  
Baumann & Unzicker, 1981; Bueno-Soria, 1984, redescription);
- WA (Harris & Lawrence, 1978; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005;  
Blinn & Ruiter, 2013);
- WY (Hamilton & Schuster, 1978; Ruiter & Lavigne, 1985;  
Zuellig, Pineda, & Kondratieff, 2002);
- YT (Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997);
- Mexico (Bueno-Soria & Flint, 1978).
- Hydroptila salmo* Ross, 1941, WI;  
male genitalia (Blickle, 1979; Houghton, 2012);
- MB (Flannagan & Lawler, 1972; Flannagan & Flannagan, 1982);
- ME (Blickle, 1979);
- MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
Houghton, 2022;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MN (Etnier, 1965; Blickle, 1979; MacLean, 1995;  
Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- NH (Morse and Blickle, 1957; Blickle, 1979);
- OH (Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- QC (Roy & Harper, 1979);
- WI (Ross, 1941; Blickle, 1979; Hilsenhoff, 1995;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022)
- WY (Ruiter, 1999).
- Hydroptila sandersoni* Mathis & Bowles, 1990, AR;  
AL (Harris, O'Neil, & Lago, 1991; Mathis & Bowles, 1992;  
Moulton & Stewart, 1996);
- AR (Mathis & Bowles, 1990; Moulton & Stewart, 1996; Etnier, 2010;  
Bowles, Cheri, Usrey, & Williams, 2020);
- KY (Floyd, 1992; Moulton & Stewart, 1996;  
Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MO (Moulton & Stewart, 1996; Ferro & Sites, 2007;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- OH (Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- OK (Bowles & Mathis, 1992; Moulton & Stewart, 1996).
- Hydroptila santarosa* Harris, Rasmussen, & Denson, 2012, FL;  
FL (Harris, Rasmussen, & Denson, 2012).
- Hydroptila sarahae* Harris, 2002, FL;  
FL (Harris, 2002; Rasmussen, 2004; Harris, Rasmussen, & Denson, 2012).
- Hydroptila scheiringi* Harris, 1986, AL;

- AL (Harris, 1986; Harris, 1990; Harris, O'Neil, & Lago, 1991; Morse et al, 1997)
- FL (Harris, Rasmussen, & Denson, 2012).
- Hydroptila scolops* Ross, 1938, IL;  
 male genitalia (Blickle, 1979; Houghton, 2012);  
 IL (Ross, 1938; Ross, 1944; Hamilton & Schuster, 1978; Blickle, 1979; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton & Schuster, 1978; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MB (Flannagan & Flannagan, 1982);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Blickle, 1979; MacLean, 1995; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Ferro & Sites, 2007; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);  
 WI (Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Blickle, 1979; Lillie & Hilsenhoff, 1992; Hilsenhoff, 1995; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Hydroptila spatulata* Morton, 1905, NY;  
 male genitalia (Blickle, 1979; Houghton, 2012);  
 wings, male & female genitalia (Schmid 1980);  
 MD/VA (Flint & Butler, 1983);  
 AL (Harris et al, 1983; Harris, Lago, & O'Neil, 1984; Harris, 1986; Harris, 1987; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 AR (Bowles & Mathis, 1989; Moulton & Stewart, 1996; Etnier, 2010);  
 DE (Lake, 1984; Moulton & Stewart, 1996);  
 IL (Ross, 1944; Blickle, 1979; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1944; Blickle, 1979; Waltz & McCafferty, 1983; Moulton & Stewart, 1996; DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Etnier, 1973; Resh, 1975; Blickle, 1979; Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006; Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MB (Flannagan, 1978; Flannagan & Flannagan, 1982; Moulton & Stewart, 1996; Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruitter, Boyle, & Zhou, 2013);  
 MD (Moulton & Stewart, 1996; Flint, 2008);  
 MI (Ross, 1944; Leonard and Leonard, 1949; Blickle, 1979; Davis, Hudson, & Armitage, 1991; Moulton & Stewart, 1996; Houghton, Brandin, & Brakel, 2011; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Denning, 1947; Etnier, 1965; Blickle, 1979; Moulton & Stewart, 1996; Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Harris & Lawrence, 1978; Mathis & Bowles, 1992; Moulton & Stewart, 1996; Etnier, 2010; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NH (Blickle, 1979; Moulton & Stewart, 1996);  
 NY (Morton, 1905; Ross, 1944; Blickle, 1979; Moulton & Stewart, 1996; Tozer, 2018);

- OH (Marshall, 1939; Huryñ & Foote, 1983; Garono & MacLean, 1988; Moulton & Stewart, 1996; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- OK (Bowles & Mathis, 1992; Moulton & Stewart, 1996);
- PA (Swegman, Walker, & Sykora, 1981; Masteller & Flint, 1992; Moulton & Stewart, 1996);
- QC (Ross, 1944; Corbet, 1966; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1975; Roy & Harper, 1979; Blickle, 1979; Moulton & Stewart, 1996);
- TN (Etnier & Schuster, 1979; Blickle, 1979; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998; Etnier, Bauer, & Zirkle, 2006);
- VA (Parker & Voshell, 1981; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004; Flint, 2011);
- WI (Ross, 1944; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Blickle, 1979; Hilsenhoff, 1995; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- WV (Tarter & Floyd, 2016).
- Hydroptila spinata* Blickle and Morse, 1954, NH;  
male genitalia (Blickle, 1979);  
AL (Harris, 1986; Harris, 1987; Harris, 1990; Harris, O'Neil, & Lago, 1991);  
ME (Blickle, 1979);  
NH (Blickle & Morse, 1954; Blickle, 1979);  
NY (Myers, Kondratieff, Mihuc, & Ruitter, 2011);  
PA (Swegman, Walker, & Sykora, 1981; Masteller & Flint, 1992);  
QC (Williams & Williams, 1979; Williams, 1981);  
VA (Parker & Voshell, 1981; Flint, Hoffman, & Parker, 2004).
- Hydroptila strepha* Ross, 1941, PA;  
male genitalia (Blickle, 1979; Sykora & Harris, 1994);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
AR (Moulton & Stewart, 1996);  
FL (Frost, 1966);  
ME (Blickle, 1979; Moulton & Stewart, 1996);  
MN (Etnier, 1965, doubtful identification according to Houghton, Holzenthal, Monson, & MacLean, 2001, specimens re-identified as *Hydroptila antennopodia* according to Houghton, 2012; Blickle, 1979; Moulton & Stewart, 1996);  
MO (Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MS (Harris, Lago, & Holzenthal, 1982; Moulton & Stewart, 1996; Moulton & Stewart, 1996);  
NH (Morse and Blickle, 1957; Blickle, 1979; Moulton & Stewart, 1996);  
OH (McElravy, Arsuffi, & Foote, 1977; Huryñ & Foote, 1983; Moulton & Stewart, 1996; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
PA (Ross, 1941; Blickle, 1979; Masteller & Flint, 1992);  
SC (Morse et al, 1979; Morse, Chapin, Herlong & Harvey, 1980; Moulton & Stewart, 1996);  
WI (Blickle, 1979; Hilsenhoff, 1995; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Hydroptila sykora* Harris, 2002, FL;  
FL (Harris, 2002; Pescador, Rasmussen, & Harris, 2004; Harris, Rasmussen, & Denson, 2012).
- Hydroptila talladega* Harris, 1985, AL;  
AL (Harris, 1985; Harris, 1986; Harris, 1990; Harris, O'Neil, & Lago, 1991; Morse et al, 1997);  
GA (Frazer, Harris, & Ward, 1991);  
KY (Houp, 1999; Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NC (Morse, Hamilton, & Hoffman, 1989; Morse et al, 1997; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);  
OH (Armitage et al., 2011);



Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 PA (Masteller & Flint, 1992);  
 SC (Morse, Hamilton, & Hoffman, 1989; Morse et al, 1997; Floyd, Morse, & Harris, 1997);  
 TN (Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005);  
 VA (Flint, Hoffman, & Parker, 2004).

*Hydroptila tomah* Harris & Hury, 2000, ME;  
 ME (Harris & Hury, 2000).

*Hydroptila tortosa* Ross, 1938, VA;  
 male genitalia (Blickle, 1979);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 ME (Blickle, 1979);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1968; Blickle, 1979; Houghton, Holzenthal, Monson, & MacLean, 2001;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Morse, Hamilton, & Hoffman, 1989; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Blickle, 1979);  
 SC (Morse et al, 1979);  
 VA (Ross, 1938; Ross, 1944; Blickle, 1979; Flint, Hoffman, & Parker, 2004).

*Hydroptila tridentata* Holzenthal & Kelley, 1983, SC;  
 SC (Holzenthal & Kelley, 1983).

*Hydroptila tusculum* Ross, 1947, TN;  
 male genitalia (Blickle, 1979);  
 AL (Harris, 1986; Harris, 1987; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 LA (Harris, Lago, & Holzenthal, 1982; Moulton & Stewart, 1996);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Harris, Lago, & Holzenthal, 1982; Moulton & Stewart, 1996);  
 TN (Ross, 1947; Blickle, 1979; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998);  
 WI (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).

*Hydroptila vala* Ross, 1938, IL;  
 male genitalia (Blickle, 1979);  
 AL (Harris, 1986; Harris, 1987; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996;  
 Hicks & Haynes, 2000a);  
 AR (Bowles & Mathis, 1989; Moulton & Stewart, 1996; Etnier, 2010);  
 IL (Ross, 1938; Ross, 1944; Blickle, 1979; Moulton & Stewart, 1996; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Blickle, 1979; Moulton & Stewart, 1996;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MB (Flannagan & Flannagan, 1982; Moulton & Stewart, 1996);  
 OH (McElravy, Arsuffi, & Foote, 1977; Hury & Foote, 1983; Garono & MacLean, 1988;  
 Moulton & Stewart, 1996; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Ross, 1944; Blickle, 1979; Bowles & Mathis, 1992; Moulton & Stewart, 1996);  
 TN (Etnier & Schuster, 1979; Moulton & Stewart, 1996;  
 Etnier, Baxter, Fraley, & Parker, 1998; Etnier, Bauer, & Zirkle, 2006);  
 VA (Flint, Hoffman, & Parker, 2004).

*Hydroptila valhalla* Denning, 1947, MN;  
 male genitalia (Blickle, 1979; Houghton, 2012);

- AL (Harris, 1986; Harris, 1990; Harris, O'Neil, & Lago, 1991);  
 ME (Blickle, 1979; Huryñ & Harris, 2000);  
 MI (Leonard and Leonard, 1949; Blickle, 1979; Houghton, 2016;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
     Houghton, 2022;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Denning, 1947; Etnier, 1965; Etnier, 1968; Blickle, 1979;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Zhou et al., 2011; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NH (Morse and Blickle, 1957; Blickle, 1979);  
 OH (Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 TN (Etnier, Baxter, Fraley, & Parker, 1998; DeWalt, Jacobus, & McCafferty, 2007);  
 WI (Blickle, 1979; Steven & Hilsenhoff, 1984; Hilsenhoff, 1995;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Hydroptila virgata* Ross, 1938, IL;  
 male genitalia (Blickle, 1979);  
 AL (Harris et al, 1983; Harris, 1986; Harris, 1987; Harris, O'Neil, & Lago, 1991;  
     Moulton & Stewart, 1996; Hicks & Haynes, 2000a);  
 AR (Ross, 1944; Unzicker, Aggus, & Warren, 1970; Blickle, 1979; Bowles & Mathis, 1989;  
     Moulton & Stewart, 1996; Bowles, Cheri, Usrey, & Williams, 2020);  
 DE (Blickle, 1979; Lake, 1984; Moulton & Stewart, 1996);  
 IL (Ross, 1938; Ross, 1944; Blickle, 1979; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Blickle, 1979; Moulton & Stewart, 1996;  
     Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MB (Flannagan, 1978; Flannagan & Flannagan, 1982; Moulton & Stewart, 1996);  
 MN (Etnier, 1965, doubtful identification according to  
     Houghton, Holzenthal, Monson, MacLean, 2001;  
     Blickle, 1979; Moulton & Stewart, 1996);  
 MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Bowles, 2020;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NH (Morse and Blickle 1957; Blickle, 1979; Moulton & Stewart, 1996);  
 OH (McElravy, Arsuffi, & Foote, 1977; Huryñ & Foote, 1983; Garono & MacLean, 1988;  
     Moulton & Stewart, 1996; Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Ross, 1944; Blickle, 1979; Bowles & Mathis, 1992; Moulton & Stewart, 1996);  
 QC (Nimmo, 1966; Corbet, Schmid, & Augustin, 1966;  
     Roy & Harper, 1979; Moulton & Stewart, 1996);  
 TN (Etnier & Schuster, 1979; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Flint, Hoffman, & Parker, 2004);  
 WI (Blickle, 1979; Steven & Hilsenhoff, 1984; Hilsenhoff, 1995; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Hydroptila wakulla* Denning, 1947, FL  
 male genitalia (Blickle, 1979; Harris, Rasmussen, & Denson, 2012);  
 FL (Denning, 1947; Blickle, 1979; Pescador, Rasmussen, & Harris, 1995, 2004;  
     Harris, Rasmussen, & Denson, 2012).
- Hydroptila waskesia* Ross, 1944, SK;  
 male genitalia (Blickle, 1979; Houghton, 2012);  
 AL (Harris et al, 1983; Harris, Lago, & O'Neil, 1984;  
     Harris, 1986; Harris, 1987; Harris, O'Neil, & Lago, 1991);  
 KY (Houp, 1999; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1968; Blickle, 1979; Houghton, Holzenthal, Monson, & MacLean, 2001);

Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OH (Huryn & Foote, 1983; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 PA (Masteller & Flint, 1992);  
 QC (Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1979; Blickle, 1979);  
 SK (Ross, 1944; Blickle, 1979);  
 TN (Etnier, 1973; Blickle, 1979; Etnier, Baxter, Fraley, & Parker, 1998).  
*Hydroptila waubesiana* Betten, 1934, WI;  
 male genitalia (Blickle, 1979; Houghton, 2012);  
 GA/SC (Hudson & Nichols, 1986);  
 MD/VA (Flint & Butler, 1983);  
 OK/TX (Resh, White, & White, 1978);  
 ubiquitous east of the Rocky Mountains (Hamilton & Schuster, 1978);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris et al, 1983; Harris, Lago, & O'Neil, 1984; Harris, 1986; Harris, 1987;  
 Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996;  
 Hicks & Haynes, 2000a; Hicks & Haynes, 2000b; Harris & O'Neil, 2015;  
 Denson, Rasmussen, & Harris, 2016);  
 AR (Unzicker, Aggus & Warren, 1970; Blickle, 1979; Bowles & Mathis, 1989;  
 Moulton & Stewart, 1996; Zhou et al., 2011; Bowles, Cheri, Usrey, & Williams, 2020);  
 CO (Herrmann, Ruiter, & Unzicker, 1986; Moulton & Stewart, 1996; Ruse & Herrmann, 2000;  
 Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 DE (Lake, 1984; Moulton & Stewart, 1996);  
 FL (Blickle, 1979; Pescador, Rasmussen, & Harris, 1995, 2004; Moulton & Stewart, 1996;  
 Rasmussen, 2004; Harris, Rasmussen, & Denson, 2012;  
 Denson, Rasmussen, & Harris, 2016);  
 GA (Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 IA (Wenke, 1967; Moulton & Stewart, 1996; Blinn, Ruiter, & Flint, 2009;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1944; Harris, 1971; Blickle, 1979; Moulton & Stewart, 1996; Zhou et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1944; Blickle, 1979; Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
 DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton & Schuster, 1978; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Blickle, 1979; Haag, Resh, & Neff, 1984;  
 Floyd & Schuster, 1990; Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Denning, 1947; Blickle, 1979; Moulton & Stewart, 1996);  
 MB (Denning, 1947; Flannagan & Flannagan, 1982; Resh, Rosenberg, & Wiens, 1983;  
 Moulton & Stewart, 1996);  
 MD (Moulton & Stewart, 1996; Flint, 2008);  
 MI (Ross, 1944; Blickle, 1979; Davis, Hudson, & Armitage, 1991;  
 Moulton & Stewart, 1996; Houghton, Brandin, & Brakel, 2011; Houghton, 2016;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Denning, 1947; Etnier, 1965; Blickle, 1979; MacLean, 1995; Moulton & Stewart, 1996;  
 Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001; Zhou et al., 2011;  
 Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Harris & Lawrence, 1978; Mathis & Bowles, 1992; Moulton & Stewart, 1996);

Ferro & Sites, 2007; Bowles, 2020;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Harris, Lago, & Holzenthal, 1982; Moulton & Stewart, 1996);  
 MT (Roemhild, 1982; Moulton & Stewart, 1996);  
 NC (Moulton & Stewart, 1996; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 ND (Denning, 1947; Harris, Lago, & Carlson, 1980; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NJ (Blickle, 1979; Moulton & Stewart, 1996);  
 NY (Harris & Lawrence; Moulton & Stewart, 1996);  
 OH (Marshall, 1939; Ross, 1944; Blickle, 1979; Petersen & Foote, 1980; Huryn & Foote, 1983;  
 Usis & MacLean, 1986; Garono & MacLean, 1988;  
 Keiper, Casamatta & Foote, 1998; Moulton & Stewart, 1996; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Bowles & Mathis, 1992; Moulton & Stewart, 1996;  
 Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006);  
 ON (Ross, 1944; Blickle, 1979; Moulton & Stewart, 1996; Zhou et al., 2011);  
 PA (Swegman, Walker, & Sykora, 1981; Masteller & Flint, 1992; Moulton & Stewart, 1996);  
 QC (Nimmo, 1966; Corbet, 1966; Corbet, Schmid, & Augustin, 1966;  
 Roy & Harper, 1979; Moulton & Stewart, 1996; Zhou et al., 2011);  
 SC (Morse, Chapin, Herlong, & Harvey, 1980; Moulton & Stewart, 1996);  
 SK (Milne, 1943; Blickle, 1979; Moulton & Stewart, 1996);  
 TN (Etnier, Baxter, Fraley, & Parker, 1998; Etnier, Bauer, & Zirkle, 2006);  
 TX (Moulton & Stewart, 1996; Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997;  
 Bowles, Tiemann & Easley, 2007);  
 VA (Parker & Voshell, 1981; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004;  
 Flint, 2011);  
 WI (Betten, 1934; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
 Blickle, 1979; Steven & Hilsenhoff, 1984; Lillie & Hilsenhoff, 1992; Hilsenhoff, 1995;  
 Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022  
 WV (Tarter & Floyd, 2016).  
 Hydroptila wetumpka Harris, 1991, AL;  
 AL (Harris, 1991; Harris, O'Neil, & Lago, 1991; Morse et al, 1997)  
 FL (Harris, Rasmussen, & Denson, 2012).  
 Hydroptila wyomia Denning, 1948, WY;  
 male genitalia (Blickle, 1979; Houghton, 2012);  
 MB (Flannagan & Flannagan, 1982);  
 ME (Blickle, 1979);  
 MI (Leonard and Leonard, 1949; Blickle, 1979; Houghton, Brandin, & Brakel, 2011;  
 Houghton, 2016;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (MacLean, 1995; Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001;  
 Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NH (Morse & Blickle, 1957; Blickle, 1979);  
 QC (Roy & Harper, 1979; Harper, 1989);  
 WI (Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Blickle, 1979; Hilsenhoff, 1981;  
 Steven & Hilsenhoff, 1984; Hilsenhoff, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WY (Denning, 1948; Blickle, 1979; Ruiter & Lavigne, 1985).  
 Hydroptila xella Ross, 1941, TN;  
 male genitalia (Blickle, 1979);  
 AL (Harris, 1986; Harris, 1990; Harris, O'Neil, & Lago, 1991);

- IL (Blickle, 1979);  
 NH (Blickle, 1979);  
 TN (Ross, 1941; Blickle, 1979; Etnier, Baxter, Fraley, & Parker, 1998).
- Hydroptila xera* Ross, 1938, ID;  
 female genitalia (Denning, 1948);  
 male genitalia (Blickle, 1979; Houghton, 2012);  
 BC (Ross & Spencer, 1952; Blickle, 1979; Nimmo & Scudder, 1983);  
 CA (Denning, 1956; Blickle, 1979; Resh & Mendez, 2022);  
 CO (Herrmann, Ruiter, & Unzicker, 1986; Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 ID (Ross, 1938; Blickle, 1979);  
 ME (Blickle, 1979);  
 MI (Houghton, Brandin, & Brakel, 2011; Houghton, 2016;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton & Lardner, 2020; Houghton, 2022;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Blickle, 1979; Roemhild, 1982);  
 NH (Blickle, 1979);  
 NM (Vieira, Kondratieff, Ruiter, & Durfee, 2009);  
 NV (Ruiter, Baumann, & Flint, 2014);  
 OR (Nimmo, 1979; Blickle, 1979);  
 QC (Roy & Harper, 1979; Harper, 1989);  
 UT (Baumann & Unzicker, 1981);  
 WA (Zack, Ruiter, Strenge, & Landolt, 2006; Blinn & Ruiter, 2013);  
 WI (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WY (Denning, 1948; Blickle, 1979; Ruiter & Lavigne, 1985).
- Hydroptila xoncla* Ross, 1941, NS;  
 male genitalia (Blickle, 1979);  
 DE (Blickle, 1979; Lake, 1984);  
 ME (Blickle, 1979; Mingo & Gibbs, 1980; Bilger, 1986; Huryn & Harris, 2000);  
 NH (Morse & Blickle, 1957; Blickle, 1979);  
 NS (Ross, 1941; Blickle, 1979);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 QC (Robert, 1958; Roy & Harper, 1975; Roy & Harper, 1979; Blickle, 1979).
- Ithytrichia clavata* Morton, 1905, NY;  
 larva, case (Wiggins, 1977, probably this species);  
 male genitalia (Blickle, 1979; Moulton, Harris, & Slusark, 1999; Houghton, 2012);  
 wings, female sternum VII, male & female genitalia (Schmid, 1980);  
 transcontinental (Wiggins, 1977; Hamilton & Schuster, 1978);  
 AB (probably Hinchliffe, 2012);  
 AR (Moulton & Stewart, 1996; Etnier, 2010);  
 AZ (Moulton, Stewart, & Young, 1994, but this record is in error  
     according to Moulton, Harris, & Slusark, 1999; Blinn & Ruiter, 2006;  
     Blinn & Ruiter, 2009b);  
 BC (Ross, 1944; Ross & Spencer, 1952; Blickle, 1979; Moulton & Stewart, 1996);  
 CA (Ross, 1944; Blickle, 1979; Moulton & Stewart, 1996; Moulton, Harris, & Slusark, 1999;  
     Resh & Mendez, 2022);  
 FL (Moulton, Harris, & Slusark, 1999; Harris, Rasmussen, & Denson, 2012);  
 IL (Ross, 1944; Blickle, 1979; Moulton & Stewart, 1996; Moulton, Harris, & Slusark, 1999;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton & Schuster, 1978; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MB (Flannagan & Flannagan, 1982; Moulton & Stewart, 1996; Moulton, Harris, & Slusark, 1999);

- ME (Blickle, 1979; Mingo & Gibbs, 1980; Bilger, 1986; Moulton & Stewart, 1996; Moulton, Harris, & Slusark, 1999; Huryn & Harris, 2000);
- MI (Craig & Chriscinske, 2007, “likely” ; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018; Houghton, 2022; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MN (Denning, 1947; Etnier, 1965; MacLean, 1995; Moulton & Stewart, 1996; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Moulton, Harris, & Slusark, 1999; Ferro & Sites, 2007; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MT (Roemhild, 1982; Moulton & Stewart, 1996);
- NH (Morse & Blickle, 1953; Blickle, 1979; Moulton & Stewart, 1996);
- NY (Morton, 1905; Ross, 1944; Bilger, 1986; Moulton & Stewart, 1996; Myers, Kondratieff, Mihuc, & Ruiter, 2011);
- OH (Marshall, 1939; Huryn & Foote, 1983; Garono & MacLean, 1988; Moulton & Stewart, 1996; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- OK (Ross, 1944; Blickle, 1979; Bowles & Mathis, 1992; Moulton & Stewart, 1996);
- ON (Wiggins, 1977; Moulton & Stewart, 1996);
- PA (Ross, 1944; Blickle, 1979; Masteller & Flint, 1992; Moulton & Stewart, 1996; Moulton, Harris, & Slusark, 1999);
- QC (Roy & Harper, 1975; Roy & Harper, 1979; Blickle, 1979; Moulton & Stewart, 1996; Moulton, Harris, & Slusark, 1999);
- TX (Cloud & Stewart, 1974; Houghton & Stewart, 1998; Moulton & Stewart, 1996; Moulton & Stewart, 1997; Moulton, Harris, & Slusark, 1999; Bowles, Tiemann & Easley, 2007);
- UT (Baumann & Unzicker, 1981; Moulton & Stewart, 1996);
- VA (Parker & Voshell, 1981; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004);
- WI (Muttikowski, 1918; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hilsenhoff, 1995; Moulton & Stewart, 1996; Moulton, Harris, & Slusark, 1999; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- WY (Ruiter & Lavigne, 1985; Moulton & Stewart, 1996);
- Europe;
- Holarctic (Fischer 1961; Fischer, 1971; Wiggins, 1977).
- Ithytrichia mazon* Ross, 1944, IL; male genitalia (Blickle, 1979; Moulton, Harris, & Slusark, 1999);
- AR (Frazer, Robison, & Harris, 1991; Moulton & Stewart, 1996; Moulton, Harris, & Slusark, 1999);
- IL (Ross, 1944; Wiggins, 1977; Blickle, 1979; Moulton & Stewart, 1996; Moulton, Harris, & Slusark, 1999; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- KY (Resh, 1975; Blickle, 1979; Moulton & Stewart, 1996; Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- OH (Moulton, Harris, & Slusark, 1999; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- OK (Moulton, Harris, & Slusark, 1999).
- Ithytrichia mexicana* Harris & Contreras-Ramos, 1989, Mexico (Tamaulipas); male genitalia (Moulton, Harris, & Slusark, 1999);
- AZ (Moulton, Harris, & Slusark, 1999; Houghton, 2001; Blinn & Ruiter, 2006; Blinn & Ruiter, 2009a; Blinn & Ruiter, 2009b);
- NM (Moulton, Harris, & Slusark, 1999; Vieira, Kondratieff, Ruiter, & Durfee, 2009);

NV (Ruiter, Baumann, & Flint, 2014);  
Mexico (Tamaulipas) (Harris & Contreras-Ramos, 1989).

- Leucotrichia limpia* Ross, 1944, TX;  
larval head, anal proleg, male genitalia (Flint, 1970);  
male genitalia (Blickle, 1979; Thomson & Holzenthal, 2015);  
AZ (Flint, 1970; Wiggins, 1977; Blickle, 1979;  
Moulton, Stewart, & Young, 1994; Blinn & Ruiter, 2006; Blinn & Ruiter, 2009b;  
Thomson & Holzenthal, 2015);  
NV (Ruiter, Baumann, & Flint, 2014);  
TX (Ross, 1944; Flint, 1970; Wiggins, 1977; Blickle, 1979; Moulton & Stewart, 1997;  
Bowles, Tiemann & Easley, 2007; Thomson & Holzenthal, 2015);  
UT (Baumann & Unzicker, 1981);  
Mexico (Wiggins, 1977);  
Mexico, Costa Rica (Bueno-Soria & Flint, 1978).
- Leucotrichia pictipes* (Banks, 1911), *Orthotrichia*, NY;  
larva (Ross, 1944);  
larval mesonotum, adult head, antenna, pronotum, male genitalia  
(Flint, 1970);  
photos of larva, case (Anderson, 1976);  
larva, case (Wiggins, 1977, probably this species);  
male genitalia (Blickle, 1979; Houghton, 2012);  
adult antenna, pronotum, wings, male & female genitalia  
(Schmid, 1980);  
head & male genitalia (Thomson & Holzenthal, 2015);  
MD/VA (Flint & Butler, 1983);  
MN to OR to CA to NY to VA (Wiggins, 1977);  
near NC/SC (Unzicker, Resh, & Morse, 1982);  
AL (Harris, 1986; Harris, 1990; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
AZ (Flint, 1970; Blickle, 1979; Moulton & Stewart, 1996; Blinn & Ruiter, 2006);  
CA (Denning, 1948; Denning, 1956; Flint, 1970; Wiggins, 1977; Blickle, 1979;  
Moulton & Stewart, 1996; Thomson & Holzenthal, 2015; Resh & Mendez, 2022);  
CO (Ross, 1944; Flint, 1970; Blickle, 1979; Herrmann, Ruiter, & Unzicker, 1986;  
Moulton & Stewart, 1996; Ruse & Herrmann, 2000;  
Zuellig, Heinold, Kondratieff, & Ruiter, 2012; Thomson & Holzenthal, 2015);  
CT (Banks, 1911; Britton, 1920; Blickle, 1979; Bilger, 1986; Nelson & Downs, 1995;  
Moulton & Stewart, 1996);  
DE (Lake, 1984; Moulton & Stewart, 1996);  
ID (Ross, 1944; Flint, 1970; Blickle, 1979; Moulton & Stewart, 1996);  
IL (Ross, 1944; Flint, 1970; Blickle, 1979; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
KS (Hamilton, Schuster, & DuBois, 1983; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
KY (Houp, 1999; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MA (Bilger, 1986; Moulton & Stewart, 1996);  
MD (Thomson & Holzenthal, 2015);  
MI (Ross, 1944; Flint, 1970; Blickle, 1979; Yanoviak & McCafferty, 1996;  
Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
Houghton, 2022;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MN (Denning, 1947; Etnier, 1965; Flint, 1970; Wiggins, 1977; Blickle, 1979;  
Moulton & Stewart, 1996; Houghton, Holzenthal, Monson, & MacLean, 2001;  
Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MT (Blickle, 1979; Roemhild, 1982; Moulton & Stewart, 1996; Thomson & Holzenthal, 2015; Stagliano, 2020);

NC (Armitage & Tennessen, 1984; Lenat & Penrose, 1987; Moulton & Stewart, 1996; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);

NM (Flint, 1970; Blickle, 1979; Moulton & Stewart, 1996; Thomson & Holzenthal, 2015);

NV (Flint, 1970; Blickle, 1979; Moulton & Stewart, 1996; Zhou et al., 2011; Ruiter, Baumann, & Flint, 2014);

NY (Banks, 1911; Flint, 1970; Wiggins, 1977; Blickle, 1979; Bilger, 1986; Moulton & Stewart, 1996; Myers, Kondratieff, Mihuc, & Ruiter, 2011; Thomson & Holzenthal, 2015);

OH (Keiper & Bartolotta, 2003; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

OR (Ross, 1944; Flint, 1970; Anderson, 1976; Wiggins, 1977; Blickle, 1979; Moulton & Stewart, 1996; Thomson & Holzenthal, 2015);

PA (Masteller & Flint, 1992; Thomson & Holzenthal, 2015);

SD (Ruiter, 1999; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

TN (Etnier & Schuster, 1979; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998);

UT (Flint, 1970; Blickle, 1979; Baumann & Unzicker, 1981; Moulton & Stewart, 1996);

VA (Flint, 1970; Wiggins, 1977; Blickle, 1979; Parker & Voshell, 1981; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004);

VT (Bilger, 1986; Moulton & Stewart, 1996);

WA (Newell, Ruiter, & Streng, 2001);

WI (Ross, 1944; Flint, 1970; Longridge & Hilsenhoff, 1973; Shapas & Hilsenhoff, 1976; Hilsenhoff, 1975; Blickle, 1979; Hilsenhoff, 1995; Moulton & Stewart, 1996; Thomson & Holzenthal, 2015; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

WV (Flint, 1970; Blickle, 1979; Tarter, 1990; Moulton & Stewart, 1996; Thomson & Holzenthal, 2015; Tarter & Floyd, 2016);

WY (Ross, 1944; Flint, 1970; Blickle, 1979; Ruiter & Lavigne, 1985; Moulton & Stewart, 1996; Thomson & Holzenthal, 2015).

*Leucotrichia sarita* Ross, 1944, TX;  
 male & female genitalia (Flint, 1968);  
 larval mesonotum, adult head, pronotum, male genitalia (Flint, 1970);  
 male genitalia (Blickle, 1979);  
 head & male genitalia (Thomson & Holzenthal, 2015);

AZ (Blickle, 1979; Blinn & Ruiter, 2006);

CA (Thomson & Holzenthal, 2015; Resh & Mendez, 2022);

MD (Thomson & Holzenthal, 2015);

NM (Thomson & Holzenthal, 2015);

NV (Thomson & Holzenthal, 2015);

OR (Thomson & Holzenthal, 2015);

TX (Ross, 1944; Edwards & Arnold, 1961; Flint, 1970; Wiggins, 1977; Blickle, 1979; Moulton & Stewart, 1997; Bowles, Tiemann & Easley, 2007; Diaz & Alexander, 2012; Thomson & Holzenthal, 2015);

VA (Thomson & Holzenthal, 2015);

Mexico (Wiggins, 1977);

Mexico, Guatemala, El Salvador, Costa Rica, Granada (Bueno-Soria & Flint, 1978).

*Mayatrichia acuna* Ross, 1944, TX;



male genitalia (Blickle, 1979);  
 AZ (Blinn & Ruiter, 2006; Blinn & Ruiter, 2009a);  
 CO (Herrmann, Ruiter, & Unzicker, 1986);  
 TX (Ross, 1944; Wiggins, 1977; Blickle, 1979; Moulton & Stewart, 1997;  
     Bowles, Tiemann & Easley, 2007);  
 UT (Blickle, 1979; Baumann & Unzicker, 1981);  
 WY (Ruiter & Lavigne, 1985).  
 Mayatrichia ayama Mosely, 1937, Mexico;  
 larva, male & female genitalia (Ross, 1944);  
 male genitalia (Blickle, 1979; Houghton, 2012);  
 wings, male & female genitalia (Schmid, 1980);  
 AB to QC to FL to Mexico (Blickle, 1979);  
 widely distributed east of the Rocky Mountains  
     (Hamilton & Schuster, 1978);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AB (Blickle, 1979; Moulton & Stewart, 1996);  
 AL (Harris, Lago, & O'Neil, 1984; Harris, 1986; Harris, 1987;  
     Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991;  
     Moulton & Stewart, 1996; Hicks & Haynes, 2000a);  
 AR (Moulton & Stewart, 1996; Etnier, 2010);  
 AZ (Moulton, Stewart, & Young, 1994; Blinn & Ruiter, 2006; Blinn & Ruiter, 2009a);  
 CO (Ruiter, 1990; Moulton & Stewart, 1996; Ruse & Herrmann, 2000);  
 FL (Ross, 1944; Wiggins, 1977; Blickle, 1979;  
     Harris, Lago, & Scheiring, 1982; Pescador, Rasmussen, & Harris, 1995, 2004;  
     Mattson, Epler, & Hein, 1995; Moulton & Stewart, 1996; Rasmussen, 2004;  
     Harris, Rasmussen, & Denson, 2012; Denson, Rasmussen, & Harris, 2016);  
 GA (Ross, 1944; Moulton & Stewart, 1996);  
 IA (Ross, 1944; Wenke, 1967; Moulton & Stewart, 1996; Blinn, Ruiter, & Flint, 2009;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1944; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton & Schuster, 1978; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Ross, 1944; Resh, 1975; Moulton & Stewart, 1996;  
     Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MB (Flannagan, 1978; Flannagan & Flannagan, 1982; Moulton & Stewart, 1996);  
 ME (Wiggins, 1977; Schmid, 1980; Moulton & Stewart, 1996; Huryn & Harris, 2000);  
 MI (Leonard & Leonard, 1949; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton, 2022;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Denning, 1947; Etnier, 1965; Lager, Johnson, Williams, & McCullough, 1979;  
     MacLean, 1995; Moulton & Stewart, 1996;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Zhou et al., 2011; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Ross, 1944; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Harris, Lago, & Holzenthal, 1982; Moulton & Stewart, 1996);  
 MT (Ross, 1944; Wiggins, 1977; Blickle, 1979; Roemhild, 1982;  
     Schmid, 1980; Moulton & Stewart, 1996);  
 NC (Morse, Hamilton, & Hoffman, 1989; Moulton & Stewart, 1996;  
     Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);

- NE (Blickle, 1979; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- NH (Morse & Blickle, 1957; Moulton & Stewart, 1996);
- NT (Wiens et al, 1975; Moulton & Stewart, 1996);
- NV (Ruiter, Baumann, & Flint, 2014);
- NY (Ross, 1944; Bilger, 1986; Moulton & Stewart, 1996;  
Myers, Kondratieff, Mihuc, & Ruiter, 2011);
- OH (McElravy, Arsuffi, & Foote, 1977; Huryn & Foote, 1983;  
Moulton & Stewart, 1996; Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- OK (Ross, 1944; Bowles & Mathis, 1992; Moulton & Stewart, 1996);
- ON (Wiggins, 1977; Moulton & Stewart, 1996);
- PA (Ross, 1944; Masteller & Flint, 1992; Moulton & Stewart, 1996);
- QC (Roy & Harper, 1975; Roy & Harper, 1979; Blickle, 1979;  
Schmid, 1980; Moulton & Stewart, 1996);
- SC (Morse, Chapin, Herlong, & Harvey, 1980;  
Morse, Hamilton, & Hoffman, 1989; Moulton & Stewart, 1996);
- SK (Denning, 1948; Wiggins, 1977; Moulton & Stewart, 1996);
- TN (Ross, 1944; Etnier & Schuster, 1979; Moulton & Stewart, 1996;  
Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005);
- TX (Ross, 1944; Edwards & Arnold, 1961; Edwards, 1973; Moulton & Stewart, 1996;  
Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997;  
Bowles, Tiemann & Easley, 2007);
- UT (Wiggins, 1977; Blickle, 1979; Baumann & Unzicker, 1981; Moulton & Stewart, 1996);
- VA (Parker & Voshell, 1981; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004;  
Flint, 2011);
- VT (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);
- WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
Lillie & Hilsenhoff, 1992; Hilsenhoff, 1995; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- WV (Tarter & Floyd, 2016);
- WY (Denning, 1948; Wiggins, 1977; Ruiter & Lavigne, 1985);
- Honduras, Costa Rica (Bueno-Soria & Flint, 1978;  
Moulton & Stewart, 1996);
- Mexico (Mosely, 1937; Blickle, 1979; Schmid, 1980;  
Moulton & Stewart, 1996).
- Mayatrachia moselyi* Blickle & Denning, 1977, UT;  
male genitalia (Blickle, 1979);  
UT (Blickle & Denning, 1977; Blickle, 1979).
- Mayatrachia ponta* Ross, 1944, OK;  
larva, case (Wiggins, 1977);  
male genitalia (Blickle, 1979);  
AZ (Blinn & Ruiter, 2006);  
OK (Ross, 1944; Wiggins, 1977; Blickle, 1979;  
Bowles & Mathis, 1992; Moulton & Stewart, 1996);  
TX (Moulton & Stewart, 1997; Bowles, Tiemann & Easley, 2007);  
WY (Ruiter & Lavigne, 1985; Moulton & Stewart, 1996).
- Mayatrachia tuscaloosa* Harris & Sykora, 1996, AL;  
male genitalia (Harris & Flint, 2016);  
AL (Harris & Sykora, 1996);  
TX (Harris & Flint, 2016);  
Mexico (Harris & Flint, 2016).
- Metrichia arizonensis* (Flint, 1972), *Ochrotrichia*, AZ;  
male genitalia (Blickle, 1979);

- AZ (Flint, 1972; Blickle, 1979; Blinn & Ruiter, 2006).
- Metrichia mastelleri* Harris & Flint, 2016, AZ;  
male: head, maxillary palp, thorax, abdominal segments V & VI, wings, legs, genitalia (Harris & Flint, 2016);  
AZ (Harris & Flint, 2016).
- Metrichia nigrutta* (Banks, 1907), *Ochrotrichia*, TX;  
*Metrichia volada* Blickle & Denning, 1977  
(Moulton, Stewart, & Young, 1994);  
male genitalia (Blickle, 1979);  
larva and case (Edwards & Arnold, 1961);  
wings, male genitalia (Flint, 1972);  
AZ (Blickle & Denning, 1977; Blickle, 1979;  
Moulton, Stewart, & Young, 1994; Moulton & Stewart, 1996; Blinn & Ruiter, 2006;  
Blinn & Ruiter, 2009b);  
OK (Blickle, 1979, Moulton, Stewart, & Young, 1994;  
Bowles & Mathis, 1992; Moulton & Stewart, 1996);  
TX (Banks, 1907; Edwards & Arnold, 1961; Edwards, 1973;  
Blickle, 1979; Moulton, Stewart, & Young, 1994;  
Moulton & Stewart, 1996; Moulton & Stewart, 1997; Bowles, Tiemann & Easley, 2007);  
Mexico, El Salvador (Flint, 1972).
- Neotrichia alabamensis* Kelley & Harris, 1983, AL;  
male & female genitalia (Harris & Rasmussen, 2010);  
male genitalia (Keth, Harris, & Armitage, 2015);  
AL (Kelley & Harris, 1983; Harris, 1986; Harris, 1987;  
Harris, O'Neil, & Lago, 1991; Harris & Rasmussen, 2010;  
Keth, Harris, & Armitage, 2015);  
FL (Pescador, Rasmussen, & Harris, 1995, 2004; Harris & Rasmussen, 2010;  
Harris, Rasmussen, & Denson, 2012; Keth, Harris, & Armitage, 2015);  
MS (Harris, O'Neil, & Lago, 1991, Harris & Rasmussen, 2010; Keth, Harris, & Armitage, 2015).
- Neotrichia arkansasensis* Mathis & Bowles, 1990, AR;  
male genitalia (Keth, Harris, & Armitage, 2015);  
AR (Mathis & Bowles, 1990; Keth, Harris, & Armitage, 2015; Bowles, 2020);  
MO (Moulton & Stewart, 1996; Keth, Harris, & Armitage, 2015;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Neotrichia armitagei* Harris, 1991, FL;  
male & female genitalia (Harris & Rasmussen, 2010);  
male genitalia (Keth, Harris, & Armitage, 2015);  
AL (Harris & Rasmussen, 2010; Keth, Harris, & Armitage, 2015);  
FL (Harris, 1991; Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004;  
Harris, Rasmussen, & Denson, 2012; Keth, Harris, & Armitage, 2015;  
Denson, Rasmussen, & Harris, 2016);  
GA (Harris & Rasmussen, 2010; Keth, Harris, & Armitage, 2015);  
MS (Harris & Rasmussen, 2010; Keth, Harris, & Armitage, 2015);  
TX (Harris & Rasmussen, 2010; Keth, Harris, & Armitage, 2015).
- Neotrichia blinni* Ruiter, 2007, AZ;  
male genitalia (Ruiter, 2007; Keth, Harris, & Armitage, 2015);  
AZ (Ruiter, 2007; Keth, Harris, & Armitage, 2015).
- Neotrichia canixa* (Mosely, 1937), Mexico, Chiapas;  
male genitalia (Keth, Harris, & Armitage, 2015);  
AZ (Keth, Harris, & Armitage, 2015).
- Neotrichia caxima* (Mosely, 1937), *Guerrotrichia*, Mexico;  
male genitalia (Blickle, 1979);  
TX (Blickle, 1979; unconfirmed or dubious according to Moulton & Stewart, 1997);  
Mexico (Mosely, 1937).

- Neotrichia cliffordi* Keth, 2015, UT (in the work of Keth, Harris, & Armitage, 2015);  
 male genitalia (Keth, Harris, & Armitage, 2015);  
 UT (Keth, Harris, & Armitage, 2015).
- Neotrichia collata* Morton, 1905, NY [?];  
 male genitalia (Blickle, 1979; Keth, Harris, & Armitage, 2015);  
 head, thorax, wings, mouthparts, legs, abdominal segments I-VI (Keth, Harris, & Armitage, 2015);  
 Specimens need to be reexamined to verify if they are *Neotrichia collata* or *Neotrichia doppelganger* (Keth, Harris, & Armitage, 2015);  
 ?NC/SC (Unzicker, Resh, & Morse, 1982);  
 ?AL (Harris et al, 1983; Harris, 1986; Harris, 1987;  
 Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991;  
 Moulton & Stewart, 1996);  
 ?AR (Etnier, 2010);  
 ?IL (Ross, 1944; Blickle, 1979; Moulton & Stewart, 1996);  
 ?KY (Ross, 1944; Resh, 1975; Blickle, 1979;  
 Moulton & Stewart, 1996; Floyd, Moulton, Schuster, Parker, & Robinson, 2012);  
 ?ME (Blickle, 1979; Moulton & Stewart, 1996);  
 ?NY (Morton, 1905; Ross, 1944; Blickle, 1979;  
 Moulton & Stewart, 1996; Myers, Kondratieff, Mihuc, & Ruitter, 2011);  
 ?SC (Morse et al, 1979; Morse, Hamilton, & Hoffman, 1989;  
 Floyd & Morse, 1993; Moulton & Stewart, 1996);  
 ?UT (Baumann & Unzicker, 1981; Moulton & Stewart, 1996);  
 ?VT (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996).
- Neotrichia contrerasi* Harris & Flint, 2016, Mexico;  
 male genitalia (Harris & Flint, 2016);  
 AZ (Harris & Flint, 2016);  
 Mexico (Harris & Flint, 2016).
- Neotrichia doppelganger* Keth, 2015, AL (in the work of Keth, Harris, & Armitage, 2015);  
 male genitalia (Keth, Harris, & Armitage, 2015);  
 AL (Keth, Harris, & Armitage, 2015);  
 IL (Keth, Harris, & Armitage, 2015);  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ME (Keth, Harris, & Armitage, 2015);  
 PA (Keth, Harris, & Armitage, 2015);  
 VA (Flint, 2014; Keth, Harris, & Armitage, 2015; Flint, 2017).
- Neotrichia downsi* Ruitter, 1990, CO;  
 male genitalia (Keth, Harris, & Armitage, 2015);  
 CO (Ruitter, 1990; Keth, Harris, & Armitage, 2015).
- Neotrichia dracanamalama* Harris, 2010, VA (in the work of Harris & Rasmussen, 2010);  
 male & female genitalia (Harris & Rasmussen, 2010);  
 male genitalia (Keth, Harris, & Armitage, 2015);  
 VA (Harris & Rasmussen, 2010; Keth, Harris, & Armitage, 2015).
- Neotrichia edalis* Ross, 1941, OK;  
 male genitalia (Blickle, 1979);  
 male & female genitalia (Keth, Harris, & Armitage, 2015);  
 AR (Bowles, Cheri, Usrey, & Williams, 2020);  
 IL (Blickle, 1979; Moulton & Stewart, 1996; Keth, Harris, & Armitage, 2015);  
 MO (Blickle, 1979; Moulton & Stewart, 1996; Keth, Harris, & Armitage, 2015);  
 OK (Ross, 1941; Bowles & Mathis, 1992; Moulton & Stewart, 1996;  
 Keth, Harris, & Armitage, 2015);  
 TX (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Moulton & Stewart, 1997;  
 Bowles, Tiemann & Easley, 2007; Keth, Harris, & Armitage, 2015).
- Neotrichia ersitis* Denning, 1948, SK;  
 male genitalia (Blickle, 1979; Keth, Harris, & Armitage, 2015);  
 MT (Blickle, 1979; Roemhild, 1982; Keth, Harris, & Armitage, 2015);

SK (Denning, 1948; Blickle, 1979; Schmid, 1980; Keth, Harris, & Armitage, 2015).  
*Neotrichia falca* Ross, 1938, IL;  
 male genitalia (Blickle, 1979; Houghton, 2012; Keth, Harris, & Armitage, 2015);  
 male & female genitalia (Harris & Rasmussen, 2010);  
 IL (Ross, 1938; Ross, 1944; Hamilton & Schuster, 1978;  
 Blickle, 1979; Harris & Rasmussen, 2010; Keth, Harris, & Armitage, 2015;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton & Schuster, 1978; Harris & Rasmussen, 2010; Keth, Harris, & Armitage, 2015;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Houghton, Holzenthal, Monson, & MacLean, 2001; Harris & Rasmussen, 2010;  
 Houghton, 2012; Keth, Harris, & Armitage, 2015;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OH (Huryh & Foote, 1981; Huryh & Foote, 1983; Harris & Rasmussen, 2010;  
 Armitage et al., 2011; Keth, Harris, & Armitage, 2015;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 SC (Morse, Chapin, Herlong, & Harvey, 1980; Harris & Rasmussen, 2010;  
 Keth, Harris, & Armitage, 2015);  
 WI (Blickle, 1979; Harris & Rasmussen, 2010; Keth, Harris, & Armitage, 2015;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).  
*Neotrichia gilaensis* Keth, 2015, AZ (in the work of Keth, Harris, & Armitage, 2015);  
 male genitalia (Keth, Harris, & Armitage, 2015);  
 AZ (Keth, Harris, & Armitage, 2015).  
*Neotrichia gladia* Keth, 2015, AZ (in the work of Keth, Harris, & Armitage, 2015);  
 male genitalia (Keth, Harris, & Armitage, 2015);  
 AZ (Keth, Harris, & Armitage, 2015).  
*Neotrichia grehani* Keth, 2015, OR (in the work of Keth, Harris, & Armitage, 2015);  
 male genitalia (Keth, Harris, & Armitage, 2015);  
 OR (Keth, Harris, & Armitage, 2015).  
*Neotrichia halia* Denning, 1948, WY;  
*Neotrichia numii* Ross, 1948, CO (Blickle, 1979);  
 male genitalia (Blickle, 1979; Houghton, 2012; Keth, Harris, & Armitage, 2015);  
 female genitalia (Schmid, 1980);  
 AB (Schmid, 1980; Keth, Harris, & Armitage, 2015);  
 AZ (Blickle, 1979; Blinn & Ruiter, 2006; Keth, Harris, & Armitage, 2015);  
 CA (Blickle, 1979; Keth, Harris, & Armitage, 2015; Resh & Mendez, 2022);  
 CO (Ross, 1948; Blickle, 1979; Herrmann, Ruiter, & Unzicker, 1986; Ruse & Herrmann, 2000;  
 Keth, Harris, & Armitage, 2015);  
 ME (Blickle, 1979; Keth, Harris, & Armitage, 2015);  
 MI (Davis, Hudson, & Armitage, 1991; Keth, Harris, & Armitage, 2015;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012,  
 Keth, Harris, & Armitage, 2015;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Blickle, 1979; Roemhild, 1982; Keth, Harris, & Armitage, 2015);  
 NY (Blickle, 1979; Keth, Harris, & Armitage, 2015);  
 QC (Roy & Harper, 1979; Keth, Harris, & Armitage, 2015);  
 OR (Keth, Harris, & Armitage, 2015);  
 SK (Keth, Harris, & Armitage, 2015);  
 UT (Baumann & Unzicker, 1981; Keth, Harris, & Armitage, 2015);  
 WI (Blickle, 1979; Keth, Harris, & Armitage, 2015;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WY (Denning, 1948; Blickle, 1979; Ruiter & Lavigne, 1985; Keth, Harris, & Armitage, 2015).  
*Neotrichia juani* Harris & Tiemann, 1993, TX;

male genitalia (Keth, Harris, & Armitage, 2015);  
 TX (Harris & Tiemann, 1993; Moulton & Stewart, 1997; Bowles, Tiemann & Easley, 2007;  
 Keth, Harris, & Armitage, 2015).

*Neotrichia kimi* Keth, 2015, CA (in the work of Keth, Harris, & Armitage, 2015);  
 male genitalia (Keth, Harris, & Armitage, 2015);  
 CA (Keth, Harris, & Armitage, 2015; Resh & Mendez, 2022).

*Neotrichia kitae* Ross, 1941, MO;  
 male genitalia (Blickle, 1979; Keth, Harris, & Armitage, 2015);  
 MO (Ross, 1941; Blickle, 1979; Mathis & Bowles, 1992;  
 Moulton & Stewart, 1996; Keth, Harris, & Armitage, 2015;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Keth, Harris, & Armitage, 2015).

*Neotrichia mcpheroni* Keth, 2015, TX (in the work of Keth, Harris, & Armitage, 2015);  
 male genitalia (Keth, Harris, & Armitage, 2015);  
 TX (Keth, Harris, & Armitage, 2015).

*Neotrichia mentonensis* Frazer & Harris, 1991, GA;  
 male & female genitalia (Harris & Rasmussen, 2010);  
 male genitalia (Keth, Harris, & Armitage, 2015);  
 AL (Harris & Rasmussen, 2010; Keth, Harris, & Armitage, 2015);  
 GA (Frazer & Harris, 1991; Frazer, Harris, & Ward, 1991; Harris & Rasmussen, 2010;  
 Keth, Harris, & Armitage, 2015).

*Neotrichia minutisimella* (Chambers, 1873), Cyllene, no locality mentioned;  
 male genitalia (Blickle, 1979; Houghton, 2012; Keth, Harris, & Armitage, 2015);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 OK/TX (Resh, White, & White, 1978);  
 AL (Harris, Lago, & O'Neil, 1984; Harris, 1986; Harris, 1987;  
 Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991;  
 Moulton & Stewart, 1996; Harris & O'Neil, 2015; Keth, Harris, & Armitage, 2015);  
 AR (Unzicker, Aggus, & Warren, 1970; Hamilton & Schuster, 1978;  
 Blickle, 1979; Bowles & Mathis, 1989;  
 Moulton & Stewart, 1996; Keth, Harris, & Armitage, 2015);  
 FL (Hamilton & Schuster, 1978; Blickle, 1979;  
 Pescador, Rasmussen, & Harris, 1995, 2004; Moulton & Stewart, 1996;  
 Rasmussen, 2004; Harris, Rasmussen, & Denson, 2012; Keth, Harris, & Armitage, 2015;  
 Denson, Rasmussen, & Harris, 2016);  
 GA (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Keth, Harris, & Armitage, 2015);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1944; Harris, 1971; Hamilton & Schuster, 1978;  
 Blickle, 1979; Moulton & Stewart, 1996; Keth, Harris, & Armitage, 2015;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1944; Hamilton & Schuster, 1978; Blickle, 1979;  
 Waltz & McCafferty, 1983; Moulton & Stewart, 1996; Keth, Harris, & Armitage, 2015;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton & Schuster, 1978; Moulton & Stewart, 1996; Keth, Harris, & Armitage, 2015;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Ross, 1944; Resh, 1975; Hamilton & Schuster, 1978; Blickle, 1979;  
 Moulton & Stewart, 1996; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Keth, Harris, & Armitage, 2015;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Denning, 1947; Hamilton & Schuster, 1978;  
 Moulton & Stewart, 1996; Keth, Harris, & Armitage, 2015);  
 MB (Schmid, 1980; Moulton & Stewart, 1996);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012);

- Keth, Harris, & Armitage, 2015;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Ross, 1944; Hamilton & Schuster, 1978; Blickle, 1979; Mathis & Bowles, 1992;  
 Moulton & Stewart, 1996; Keth, Harris, & Armitage, 2015;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Harris, Lago, & Holzenthal, 1982; Moulton & Stewart, 1996;  
 Keth, Harris, & Armitage, 2015);  
 NC (Moulton & Stewart, 1996; Keth, Harris, & Armitage, 2015);  
 OK (Ross, 1944; Hamilton & Schuster, 1978; Blickle, 1979;  
 Bowles & Mathis, 1992; Moulton & Stewart, 1996; Keth, Harris, & Armitage, 2015);  
 SC (Morse, Chapin, Herlong, & Harvey, 1980;  
 Moulton & Stewart, 1996; Keth, Harris, & Armitage, 2015);  
 TX (Moulton & Stewart, 1996; Moulton & Stewart, 1997; Bowles, Tiemann & Easley, 2007;  
 Keth, Harris, & Armitage, 2015).
- Neotrichia mobilensis* Harris, 1985, AL;  
 male & female genitalia (Harris & Rasmussen, 2010);  
 male genitalia (Keth, Harris, & Armitage, 2015);  
 AL (Harris, 1985; Harris, 1986; Harris, 1990;  
 Harris, O'Neil, & Lago, 1991; Harris & Rasmussen, 2010; Harris & O'Neil, 2015;  
 Keth, Harris, & Armitage, 2015);  
 TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997; Harris & Rasmussen, 2010;  
 Keth, Harris, & Armitage, 2015);  
 Mexico (Harris & Flint, 2016).
- Neotrichia mojavensis* Keth, 2015, AZ (in the work of Keth, Harris, & Armitage, 2015);  
 male genitalia (Keth, Harris, & Armitage, 2015);  
 AZ (Keth, Harris, & Armitage, 2015).
- Neotrichia okopa* Ross, 1939, PA;  
 male genitalia (Blickle, 1979; Houghton, 2012; Keth, Harris, & Armitage, 2015);  
 wings, male genitalia (Schmid, 1980);  
 AL (Harris, 1986; Harris, 1987; Frazer, Harris, & Ward, 1991;  
 Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996;  
 Keth, Harris, & Armitage, 2015);  
 AR (Hamilton & Schuster, 1978; Frazer, Robison, & Harris, 1991; Moulton & Stewart, 1996;  
 Keth, Harris, & Armitage, 2015; Bowles, Cheri, Usrey, & Williams, 2020);  
 AZ (Blinn & Ruiter, 2009b; Blinn, Ruiter, & Haden, 2012; Keth, Harris, & Armitage, 2015);  
 CA (Blickle, 1979; Moulton & Stewart, 1996; Keth, Harris, & Armitage, 2015;  
 Resh & Mendez, 2022);  
 CO (Canton & Ward, 1981; Herrmann, Ruiter, & Unzicker, 1986;  
 Moulton & Stewart, 1996; Keth, Harris, & Armitage, 2015);  
 FL (Hamilton & Schuster, 1978; Blickle, 1979;  
 Pescador, Rasmussen, & Harris, 1995, 2004; Moulton & Stewart, 1996;  
 FL record dubious (Harris, Rasmussen, & Denson, 2012;  
 Keth, Harris, & Armitage, 2015);  
 IL (Ross, 1944; Hamilton & Schuster, 1978; Blickle, 1979; Moulton & Stewart, 1996;  
 Keth, Harris, & Armitage, 2015;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Hamilton & Schuster, 1978; Moulton & Stewart, 1996; Keth, Harris, & Armitage, 2015;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton & Schuster, 1978; Moulton & Stewart, 1996; Keth, Harris, & Armitage, 2015;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Hamilton & Schuster, 1978; Blickle, 1979;  
 Haag, Resh, & Neff, 1984; Moulton & Stewart, 1996;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Keth, Harris, & Armitage, 2015;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MB (Flannagan, 1978; Flannagan & Flannagan, 1982);

- Moulton & Stewart, 1996; Keth, Harris, & Armitage, 2015);  
 ME (Blickle, 1979; Moulton & Stewart, 1996; Keth, Harris, & Armitage, 2015);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; MacLean, 1995; Moulton & Stewart, 1996;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Keth, Harris, & Armitage, 2015;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Hamilton & Schuster, 1978; Moulton & Stewart, 1996; Keth, Harris, & Armitage, 2015;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NH (Morse & Blickle, 1957; Blickle, 1979;  
 Moulton & Stewart, 1996; Keth, Harris, & Armitage, 2015);  
 NY (Hamilton & Schuster, 1978; Moulton & Stewart, 1996; Keth, Harris, & Armitage, 2015);  
 OH (Marshall, 1939; Ross, 1939; Blickle, 1979; Huryn & Foote, 1983; Moulton & Stewart, 1996;  
 Armitage et al., 2011; Keth, Harris, & Armitage, 2015;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Ross, 1939; Hamilton & Schuster, 1978; Blickle, 1979;  
 Bowles & Mathis, 1992; Moulton & Stewart, 1996; Keth, Harris, & Armitage, 2015);  
 ON (Hamilton & Schuster, 1978; Schmid, 1980;  
 Moulton & Stewart, 1996; Keth, Harris, & Armitage, 2015);  
 OR (Blickle, 1979; Moulton & Stewart, 1996; Keth, Harris, & Armitage, 2015);  
 PA (Ross, 1939; Blickle, 1979; Masteller & Flint, 1992;  
 Moulton & Stewart, 1996; Keth, Harris, & Armitage, 2015);  
 QC (Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1975;  
 Roy & Harper, 1979; Blickle, 1979; Schmid, 1980;  
 Moulton & Stewart, 1996; Keth, Harris, & Armitage, 2015);  
 TX (Edwards, 1973; Hamilton & Schuster, 1978; Moulton & Stewart, 1996;  
 Moulton & Stewart, 1997; Bowles, Tiemann & Easley, 2007;  
 Keth, Harris, & Armitage, 2015);  
 WI (Hamilton & Schuster, 1978; Blickle, 1979; Moulton & Stewart, 1996;  
 Keth, Harris, & Armitage, 2015;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Neotrichia olorina* (Mosely, 1937), Exitrichia, Mexico;  
 AZ (Blinn & Ruiter, 2009a);  
 Mexico (Mosely, 1937).
- Neotrichia osmena* Ross, 1944, UT;  
*Neotrichia panneus* Denning, 1948, WY (Blickle, 1979);  
 male genitalia (Blickle, 1979; Keth, Harris, & Armitage, 2015);  
 AZ (Houghton, 2001; Blinn & Ruiter, 2006; Keth, Harris, & Armitage, 2015);  
 CO (Herrmann, Ruiter, & Unzicker, 1986; Keth, Harris, & Armitage, 2015);  
 ME (Keth, Harris, & Armitage, 2015);  
 TX (Moulton & Stewart, 1997; Bowles, Tiemann & Easley, 2007;  
 Keth, Harris, & Armitage, 2015);  
 UT (Ross, 1944; Blickle, 1979; Keth, Harris, & Armitage, 2015);  
 WY (Blickle, 1979; Ruiter & Lavigne, 1985; Keth, Harris, & Armitage, 2015).
- Neotrichia paraokopa* Keth, 2015, MO (in the work of Keth, Harris, & Armitage, 2015);  
 male genitalia (Keth, Harris, & Armitage, 2015);  
 MO (Keth, Harris, & Armitage, 2015;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Neotrichia pinnacles* Harris & Flint, 2016, CA;  
 male genitalia (Harris & Flint, 2016);  
 CA (Harris & Flint, 2016; Resh & Mendez, 2022).
- Neotrichia rasmusseni* Harris & Keth, 2002, FL;  
 male & female genitalia (Harris & Rasmussen, 2010);



- male genitalia (Keth, Harris, & Armitage, 2015);  
 FL (Harris & Keth, 2002; Pescador, Rasmussen, & Harris, 2004; Harris & Rasmussen, 2010;  
 Harris, Rasmussen, & Denson, 2012; Keth, Harris, & Armitage, 2015).
- Neotrichia riegeli* Ross, 1941, IL;  
 male genitalia (Blickle, 1979; Keth, Harris, & Armitage, 2015);  
 male & female genitalia (Harris & Rasmussen, 2010);  
 AR (Moulton & Stewart, 1996; Etnier, 2010; Harris & Rasmussen, 2010;  
 Keth, Harris, & Armitage, 2015);  
 IL (Ross, 1941; Blickle, 1979; Moulton & Stewart, 1996; Harris & Rasmussen, 2010;  
 Keth, Harris, & Armitage, 2015;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Blickle, 1979; Moulton & Stewart, 1996; Harris & Rasmussen, 2010;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Keth, Harris, & Armitage, 2015;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Moulton & Stewart, 1996; Harris & Rasmussen, 2010; Keth, Harris, & Armitage, 2015).
- Neotrichia sandersoni* Harris & Flint, 2016, AZ;  
 male genitalia (Harris & Flint, 2016);  
 AZ (Harris & Flint, 2016).
- Neotrichia sandyae* Ruitter, 2007, AZ;  
 male genitalia (Ruitter, 2007; Keth, Harris, & Armitage, 2015);  
 AZ (Ruitter, 2007; Keth, Harris, & Armitage, 2015).
- Neotrichia sepulga* Harris, 1991, AL;  
 male genitalia (Keth, Harris, & Armitage, 2015);  
 AL (Harris, 1991; Harris, O'Neil, & Lago, 1991;  
 Morse et al, 1997; Keth, Harris, & Armitage, 2015).
- Neotrichia sonora* Ross, 1944, TX  
 male genitalia (Blickle, 1979; Keth, Harris, & Armitage, 2015);  
 AZ (Keth, Harris, & Armitage, 2015);  
 NM (Keth, Harris, & Armitage, 2015);  
 TX (Ross, 1944; Blickle, 1979; Moulton & Stewart, 1997; Keth, Harris, & Armitage, 2015).
- Neotrichia staufferi* Keth, 2015, IL (in the work of Keth, Harris, & Armitage, 2015);  
 male genitalia (Keth, Harris, & Armitage, 2015);  
 IL (Keth, Harris, & Armitage, 2015;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Neotrichia vibrans* Ross, 1938, IL;  
*Neotrichia ranea* Denning, 1947 (Ross, 1948);  
 male genitalia (Blickle, 1979; Houghton, 2012; Keth, Harris, & Armitage, 2015);  
 AL (Harris, Lago, & O'Neil, 1984; Harris, 1986; Harris, 1987;  
 Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991;  
 Moulton & Stewart, 1996; Hicks & Haynes, 2000a;  
 Hicks & Haynes, 2000b; Harris & O'Neil, 2015; Keth, Harris, & Armitage, 2015;  
 Denson, Rasmussen, & Harris, 2016);  
 AR (Unzicker, Aggus, & Warren, 1970; Blickle, 1979; Bowles & Mathis, 1989;  
 Moulton & Stewart, 1996; Keth, Harris, & Armitage, 2015;  
 Bowles, Cheri, Usrey, & Williams, 2020);  
 FL (Denning, 1947; Blickle, 1979; Pescador, Rasmussen, & Harris, 1995, 2004;  
 Moulton & Stewart, 1996; Rasmussen, 2004; Harris, Rasmussen, & Denson, 2012;  
 Keth, Harris, & Armitage, 2015; Denson, Rasmussen, & Harris, 2016);  
 GA (Denning, 1947; Frazer, Harris, & Ward, 1991;  
 Moulton & Stewart, 1996; Keth, Harris, & Armitage, 2015);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1938; Ross, 1944; Moulton & Stewart, 1996; Keth, Harris, & Armitage, 2015;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton, Schuster, & DuBois, 1983; Moulton & Stewart, 1996;  
 Keth, Harris, & Armitage, 2015);

Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Haag, Resh, & Neff, 1984; Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Keth, Harris, & Armitage, 2015;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ME (Blickle, 1979; Moulton & Stewart, 1996; Huryn & Harris, 2000;  
 Keth, Harris, & Armitage, 2015);  
 MI (Houghton, Brandin, & Brakel, 2011; Wright, Pytel, & Houghton, 2013;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Moulton & Stewart, 1996;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Keth, Harris, & Armitage, 2015;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Ross, 1944; Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007;  
 Etnier, 2010; Keth, Harris, & Armitage, 2015; Bowles, 2020;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Harris, Lago, & Holzenthal, 1982; Moulton & Stewart, 1996;  
 Keth, Harris, & Armitage, 2015);  
 NH (Morse & Blickle, 1953; Blickle, 1979;  
 Moulton & Stewart, 1996; Keth, Harris, & Armitage, 2015);  
 NY (Myers, Kondratieff, Mihuc, & Ruitter, 2011; Keth, Harris, & Armitage, 2015);  
 OH (Huryn & Foote, 1981; Huryn & Foote, 1983; Usis & Foote, 1989;  
 Moulton & Stewart, 1996; Armitage et al., 2011; Keth, Harris, & Armitage, 2015;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Bowles & Mathis, 1992; Moulton & Stewart, 1996; Keth, Harris, & Armitage, 2015);  
 SC (Unzicker, Resh, & Morse, 1982; Moulton & Stewart, 1996; Keth, Harris, & Armitage, 2015);  
 TN (Etnier & Schuster, 1979; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998;  
 Keth, Harris, & Armitage, 2015);  
 TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997;  
 Bowles, Tiemann & Easley, 2007; Keth, Harris, & Armitage, 2015);  
 VA (Parker & Voshell, 1981; Hoffman & Parker, 1997;  
 Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004;  
 Keth, Harris, & Armitage, 2015);  
 WI (Blickle, 1979; Moulton & Stewart, 1996; Keth, Harris, & Armitage, 2015;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Tarter & Donahoe, 1988; Tarter, 1990; Moulton & Stewart, 1996;  
 Keth, Harris, & Armitage, 2015; Tarter & Floyd, 2016);  
 Mexico (Bueno-Soria & Flint, 1978; Moulton & Stewart, 1996; Keth, Harris, & Armitage, 2015).

*Nothotrichia shasta* Harris & Armitage, 1997, CA  
 male head, thorax, legs, & genitalia (Harris & Armitage, 1997);  
 larva & case (Parys & Harris, 2013);  
 CA (Harris & Armitage, 1997; Parys & Harris, 2013; Resh & Mendez, 2022).

*Ochrotrichia alexanderi* Denning & Blickle, 1972, CA  
 male genitalia (Blickle, 1979);  
 CA (Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979; Resh & Mendez, 2022).

*Ochrotrichia alsea* Denning & Blickle, 1972, OR;  
 male genitalia (Blickle, 1979; Ruitter & Harris, 2015);  
 AR (Ruitter & Harris, 2015);  
 CA (Ruitter, 1999; Resh & Mendez, 2022);  
 MT (Roemhild, 1982);  
 NV (Ruitter & Harris, 2015);  
 OR (Denning & Blickle, 1972; Anderson, 1976;  
 Blickle & Denning, 1977; Blickle, 1979)

- SD (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
WA (Blinn & Ruiters, 2013).
- Ochrotrichia anisca* (Ross, 1941), Polytrichia, IL;  
male genitalia (Blickle, 1979; Frazer & Harris, 1991);  
AR (Ross, 1941; Unzicker, Aggus, & Warren, 1970; Denning & Blickle, 1972;  
Blickle & Denning, 1977; Blickle, 1979; Bowles & Mathis, 1989;  
Frazer & Harris, 1991; Moulton & Stewart, 1996;  
Bowles, Cheri, Usrey, & Williams, 2020);  
IL (Ross, 1941; Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979;  
Frazer & Harris, 1991; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
KS (Hamilton, Schuster, & DuBois, 1983; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
KY (Blickle, 1979; Frazer & Harris, 1991; Moulton & Stewart, 1996;  
Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
OK (Ross, 1941; Denning & Blickle, 1972; Blickle & Denning, 1977;  
Blickle, 1979; Frazer & Harris, 1991;  
Bowles & Mathis, 1992; Moulton & Stewart, 1996);  
TX (Edwards, 1973; Moulton & Stewart, 1996; Moulton & Stewart, 1997).
- Ochrotrichia apalachicola* Harris, Pescador & Rasmussen, 1998, FL;  
male genitalia (Harris, Pescador & Rasmussen, 1998);  
FL (Harris, Pescador & Rasmussen, 1998; Pescador, Rasmussen, & Harris, 2004;  
Rasmussen, 2004; Harris, Rasmussen, & Denson, 2012).
- Ochrotrichia argentea* Flint & Blickle, 1972 [in the work of  
Denning & Blickle, 1972], NM;  
male genitalia (Blickle, 1979; Ruiters & Harris, 2015);  
AZ (Blickle, 1979; Blinn & Ruiters, 2006);  
NM (Denning & Blickle, 1972; Blickle & Denning, 1977;  
Blickle, 1979; Vieira, Kondratieff, Ruiters, & Durfee, 2009);  
Mexico (Ruiters & Harris, 2015).
- Ochrotrichia arizonica* Denning & Blickle, 1972, AZ;  
male genitalia (Blickle, 1979);  
larva, case, male genitalia (English & Hamilton, 1986);  
AZ (Denning & Blickle, 1972; Blickle & Denning, 1977;  
Blickle, 1979; English & Hamilton, 1986; Blinn & Ruiters, 2006);  
CA (Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979; Resh, 1983;  
Myers & Resh, 1999; Resh & Mendez, 2022);  
KS (English & Hamilton, 1986;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NM (English & Hamilton, 1986);  
TX (Moulton & Stewart, 1997);  
UT (Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979;  
Baumann & Unzicker, 1981).
- Ochrotrichia arva* (Ross, 1941), Polytrichia, TN;  
male genitalia (Blickle, 1979);  
AL (Harris, 1986; Harris, 1990; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
AR (Moulton & Stewart, 1996; Bowles, Cheri, Usrey, & Williams, 2020);  
KY (Houp, 1999; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MI (Ellis, 1962; Moulton & Stewart, 1996;  
Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiters, Bright, Hudson, & Armitage, 2018;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

OH (McElravy, Arsuffi, & Foote, 1977; Huryn & Foote, 1983; Garono & MacLean, 1988; Moulton & Stewart, 1996; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

TN (Ross, 1941; Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998);

VA (Parker & Voshell, 1981; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004);

WI (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).

*Ochrotrichia bickfordae* Ruiters, 2011, CA;  
CA (Ruiters, 2011; Resh & Mendez, 2022).

*Ochrotrichia bogani* Ruiters, 2011, CA;  
AZ (Ruiters, 2011);  
CA (Ruiters, 2011; Resh & Mendez, 2022).

*Ochrotrichia* (O.) *boquillas* Moulton & Harris, 1997, TX.  
male genitalia (Moulton & Harris, 1997);  
TX (Moulton & Harris, 1997; Bowles, Tiemann & Easley, 2007).

*Ochrotrichia boydi* Ruiters & Harris, 2015, CA;  
male genitalia (Ruiters & Harris, 2015);  
CA (Ruiters & Harris, 2015; Resh & Mendez, 2022).

*Ochrotrichia buccata* Denning & Blickle, 1972, CA;  
male genitalia (Blickle, 1979);  
CA (Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979; Resh & Mendez, 2022);  
ID (Denning & Blickle, 1972; Blickle & Denning, 1977).

*Ochrotrichia burdicki* Denning, 1989, CA;  
CA (Denning, 1989; Resh & Mendez, 2022).

*Ochrotrichia capitana* Ross, 1944, TX;  
male genitalia (Blickle, 1979);  
TX (Ross, 1944; Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979; Moulton & Stewart, 1997; Bowles, Tiemann & Easley, 2007).

*Ochrotrichia cochisei* Ruiters & Harris, 2015, AZ;  
male genitalia (Ruiters & Harris, 2015);  
AZ (Ruiters & Harris, 2015).

*Ochrotrichia confusa* (Morton, 1905), *Ithytrichia*, NY;  
larva, case (Vaillant, 1984);  
male genitalia (Ross, 1944; Blickle, 1979; Ruiters & Harris, 2015);  
AL (Harris, 1986; Harris, 1987; Harris, O'Neil, & Lago, 1991; Hicks & Haynes, 2000b);  
CA (Ruiters & Harris, 2015; Resh & Mendez, 2022);  
FL (Pescador, Rasmussen, & Harris, 2004; Rasmussen, 2004; Harris, Rasmussen, & Denson, 2012);  
KY (Blickle, 1979; Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NC (Harris, O'Neil, & Lago, 1991; Lenat, Ruiters, Parker, Robinson, Beaty, & Flint, 2010);  
NY (Morton, 1905; Ross, 1944; Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979);

OH (McElravy & Foote, 1978, doubtful record, Huryn & Foote, 1983; Garono & MacLean, 1988; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

ON (Sinclair & Marshall, 1986; Williams & Williams, 1987);

PA (Masteller & Flint, 1984; Masteller & Flint, 1992);

SC (Morse, Hamilton, & Hoffman, 1989);

TN (Ross, 1944; Denning & Blickle, 1972; Blickle & Denning, 1977; Etnier & Schuster, 1979; Blickle, 1979; Vaillant, 1984; Etnier, Baxter, Fraley, & Parker, 1998);

- TX (Moulton & Stewart, 1997; Ruiters & Harris, 2015).
- Ochrotrichia contorta* (Ross, 1941), Polytrichia, MO;  
 male genitalia (Blickle, 1979; Frazer & Harris, 1991);  
 AR (Blickle & Denning, 1977; Blickle, 1979; Frazer & Harris, 1991;  
 Bowles, Cheri, Usrey, & Williams, 2020);  
 MO (Ross, 1941; Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979;  
 Frazer & Harris, 1991; Mathis & Bowles, 1992; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Ochrotrichia dactylophora* Flint, 1965, AZ;  
 male genitalia (Blickle, 1979);  
 AZ (Flint, 1965; Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979;  
 Moulton, Stewart, & Young, 1994; Ruiters, 1996; Houghton, 2001; Blinn & Ruiters, 2006;  
 Blinn & Ruiters, 2009a; Blinn & Ruiters, 2009b; Blinn, Ruiters, & Haden, 2012);  
 NM (Flint, 1965; Denning & Blickle, 1972; Blickle & Denning, 1977;  
 Blickle, 1979);  
 TX (Moulton & Stewart, 1997);  
 Mexico (Blickle & Denning, 1977).
- Ochrotrichia dardeni* Harris, 1986, AL;  
 AL (Harris, 1986; Harris, O'Neil, & Lago, 1991;  
 Hicks & Haynes, 2000b);  
 WV (Tarter & Donahoe, 1988; Tarter, 1990; Tarter & Floyd, 2016).
- Ochrotrichia denningi* Blickle & Morse, 1957, NH;  
 male genitalia (Blickle, 1979; Frazer & Harris, 1991);  
 ME (Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979; Frazer & Harris, 1991);  
 NH (Blickle & Morse, 1957; Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979;  
 Frazer & Harris, 1991);  
 PA (Masteller & Flint, 1992);  
 VA (Flint, Hoffman, & Parker, 2004);  
 WV (Blickle, 1979; Tarter & Donahoe, 1988; Tarter, 1990; Frazer & Harris, 1991;  
 Tarter & Floyd, 2016).
- Ochrotrichia eliaga* (Ross, 1941), Polytrichia, TN;  
 male genitalia (Blickle, 1979);  
 AL (Harris, 1986; Harris, 1990; Harris, O'Neil, & Lago, 1991;  
 Moulton & Stewart, 1996);  
 AR (Frazer, Robison, & Harris, 1991; Moulton & Stewart, 1996; Bowles, 2020;  
 Bowles, Cheri, Usrey, & Williams, 2020);  
 IL (Ross, 1941; Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979;  
 Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Houp, 1999; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007; Bowles, 2020;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OH (Garono & MacLean, 1988, doubtful record according to Armitage et al., 2011;  
 Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Bowles & Mathis, 1992; Moulton & Stewart, 1996);  
 TN (Ross, 1941; Denning & Blickle, 1972; Blickle & Denning, 1977;  
 Blickle, 1979; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998;  
 Etnier, Bauer, & Zirkle, 2006);  
 WV (Tarter & Floyd, 2016).
- Ochrotrichia elongiralla* Harris, 1986, AL;  
 AL (Harris, 1986; Harris, 1990; Harris, O'Neil, & Lago, 1991);

- Morse et al, 1997; Hicks & Haynes, 2000a)  
 TN (Etnier, Baxter, Fraley, & Parker, 1998).
- Ochrotrichia escalantea* Ruitter & Harris, 2015, UT;  
 male genitalia (Ruitter & Harris, 2015);  
 AZ (Ruitter & Harris, 2015);  
 UT (Ruitter & Harris, 2015).
- Ochrotrichia felipe* Ross, 1944, TX;  
 male genitalia (Ross, 1947; Flint, 1972; Blickle, 1979);  
 TX (Ross, 1944; Denning & Blickle, 1972; Blickle & Denning, 1977;  
 Blickle, 1979; Moulton & Stewart, 1997; Bowles, Tiemann & Easley, 2007);  
 Mexico (Flint, 1972; Blickle & Denning, 1977).
- Ochrotrichia footei* Keiper & Harris, 2002, CA;  
 CA (Keiper & Harris, 2002; Resh & Mendez, 2022).
- Ochrotrichia fossi* Ruitter & Harris, 2015, CA;  
 male genitalia (Ruitter & Harris, 2015);  
 CA (Ruitter & Harris, 2015; Resh & Mendez, 2022).
- Ochrotrichia graysoni* Parker & Voshell, 1980, VA;  
 AL (Harris, Lago, & O'Neil, 1984; Harris, 1986; Harris, 1987;  
 Harris, 1990; Harris, O'Neil, & Lago, 1991);  
 PA (Masteller & Flint, 1992);  
 TN (DeWalt & Heinold, 2005);  
 VA (Parker & Voshell, 1980; Flint, Hoffman, & Parker, 2004);  
 WV (Tarter & Donahoe, 1988; Tarter, 1990; Tarter & Floyd, 2016).
- Ochrotrichia* (O.) *guadalupensis* Harris & Moulton, 1993, TX;  
 TX (Harris & Moulton, 1993; Moulton & Stewart, 1997).
- Ochrotrichia hadria* Denning & Blickle, 1972, CA  
 male genitalia (Blickle, 1979);  
 CA (Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979; Resh & Mendez, 2022).
- Ochrotrichia honeyi* Blickle & Denning, 1977, CA  
 male genitalia (Blickle, 1979);  
 CA (Blickle & Denning, 1977; Blickle, 1979; Resh & Mendez, 2022).
- Ochrotrichia ildria* Denning & Blickle, 1972, AZ;  
 male genitalia (Blickle, 1979);  
 AZ (Denning & Blickle, 1972; Blickle & Denning, 1977;  
 Blickle, 1979; Moulton, Stewart, & Young, 1994;  
 Houghton, 2001; Blinn & Ruitter, 2006; Blinn & Ruitter, 2009b);  
 UT (Blickle, 1979; Baumann & Unzicker, 1981).
- Ochrotrichia logana* (Ross, 1941), *Polytrichia*, UT;  
 female genitalia (Blickle & Denning, 1977);  
 male genitalia (Blickle, 1979);  
 AK (Ruitter, 1999; Kendrick & Huryn, 2014);  
 AZ (Blickle, 1979; Blinn & Ruitter, 2006; Blinn & Ruitter, 2009a; Blinn, Ruitter, & Haden, 2012);  
 CA (Blickle & Denning, 1977; Blickle, 1979; Resh & Mendez, 2022);  
 CO (Flint & Herrmann, 1976; Blickle, 1979; Canton & Ward, 1981;  
 Herrmann, Ruitter, & Unzicker, 1986; Ruitter, 1996; Ruse & Herrmann, 2000;  
 Zuellig, Heinold, Kondratieff, & Ruitter, 2012);  
 ID (Denning & Blickle, 1972; Blickle & Denning, 1977; Newell & Minshall, 1977;  
 Blickle, 1979);  
 NM (Vieira, Kondratieff, Ruitter, & Durfee, 2009);  
 OR (Blickle & Denning, 1977; Blickle, 1979);  
 UT (Ross, 1941; Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979);  
 WY (Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979; Ruitter & Lavigne, 1985).
- Ochrotrichia lometa* (Ross, 1941), *Polytrichia*, NM;  
 male genitalia (Blickle, 1979);  
 AZ (Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979; Ruitter, 1996);

Blinn & Ruiters, 2006; Blinn & Ruiters, 2009a; Blinn, Ruiters, & Haden, 2012);  
 CA (Denning, 1956; Denning & Blickle, 1972; Blickle & Denning, 1977; Resh & Sorg, 1978;  
 Blickle, 1979; Resh & Mendez, 2022);  
 CO (Denning & Blickle, 1972; Blickle & Denning, 1977;  
 Blickle, 1979);  
 NM (Ross, 1941; Denning & Blickle, 1972; Blickle & Denning, 1977;  
 Blickle, 1979);  
 NV (Denning & Blickle, 1972; Blickle & Denning, 1977;  
 Blickle, 1979; Ruiters, Baumann, & Flint, 2014);  
 UT (Ross, 1944; Denning & Blickle, 1972; Blickle & Denning, 1977;  
 Blickle, 1979; Baumann & Unzicker, 1981);  
 WY (Ruiters & Lavigne, 1985).  
*Ochrotrichia lucia* Denning & Blickle, 1972, CA;  
 male genitalia (Blickle, 1979);  
 CA (Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979; Resh & Mendez, 2022);  
 OR (Blickle & Denning 1977; Blickle, 1979).  
*Ochrotrichia malanae* Ruiters & Harris, 2015, CA;  
 male genitalia (Ruiters & Harris, 2015);  
 CA (Ruiters & Harris, 2015; Resh & Mendez, 2022).  
*Ochrotrichia mono* (Ross, 1941), *Polytrichia*, CA  
 male genitalia (Blickle, 1979);  
 CA (Ross, 1941; Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979;  
 Resh & Mendez, 2022).  
*Ochrotrichia myersae* Ruiters & Harris, 2015, CA  
 male genitalia, (Ruiters & Harris, 2015);  
 CA (Ruiters & Harris, 2015; Resh & Mendez, 2022).  
*Ochrotrichia nacora* Denning & Blickle, 1972, CA;  
 male genitalia (Blickle, 1979; Ruiters & Harris, 2015);  
 CA (Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979; Ruiters & Harris, 2015;  
 Resh & Mendez, 2022);  
 OR (Denning & Blickle, 1972; Anderson, 1976;  
 Blickle & Denning, 1977; Ruiters & Harris, 2015).  
*Ochrotrichia okaloosa* Harris, 1987, FL;  
 FL (Harris, 1987; Pescador, Rasmussen, & Harris, 1995, 2004;  
 Harris, Rasmussen, & Denson, 2012).  
*Ochrotrichia okanoganensis* Flint, 1965, WA;  
 male genitalia (Blickle, 1979);  
 OR (Blickle, 1979);  
 WA (Flint, 1965; Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979).  
*Ochrotrichia oregona* (Ross, 1938), *Polytrichia*, OR;  
 female genitalia (Denning, 1948);  
 male genitalia (Blickle, 1979);  
 CO (Denning, 1948; Denning & Blickle, 1972;  
 Blickle & Denning, 1977; Blickle, 1979);  
 ID (Blickle, 1979);  
 MT (Blickle, 1979; Roemhild, 1982);  
 OR (Ross, 1938; Ross, 1944; Anderson, 1976;  
 Denning & Blickle, 1972; Blickle & Denning, 1977;  
 Blickle, 1979);  
 WA (Blickle, 1979);  
 WY (Denning, 1948; Denning & Blickle, 1972;  
 Blickle & Denning, 1977; Ruiters & Lavigne, 1985).  
*Ochrotrichia phenosa* Ross, 1947, OR;  
 male genitalia (Blickle, 1979);  
 CA (Blickle, 1979);

- OR (Ross, 1947; Anderson, 1976; Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979).
- Ochrotrichia potomus* Denning, 1948, WY;  
male genitalia (Blickle, 1979);  
MT (Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979; Roemhild, 1982; Frazer & Harris, 1991);  
OK (Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979; Frazer & Harris, 1991; Bowles & Mathis, 1992);  
PA (Denning & Blickle, 1972; Blickle & Denning, 1977);  
UT (Blickle, 1979; Baumann & Unzicker, 1981; Frazer & Harris, 1991);  
WY (Denning, 1948; Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979; Ruiter & Lavigne, 1985; Frazer & Harris, 1991).
- Ochrotrichia provosti* Blickle, 1961, FL  
male genitalia (Blickle, 1963; Blickle, 1979);  
FL (Blickle, 1961; Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979; Pescador, Rasmussen, & Harris, 1995, 2004; Harris, Rasmussen, & Denson, 2012).
- Ochrotrichia quadrispina* Denning & Blickle, 1972, AZ;  
male genitalia (Blickle, 1979);  
larva (Keiper & Walton, 2000);  
AZ (Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979; Moulton, Stewart, & Young, 1994; Blinn & Ruiter, 2006; Blinn & Ruiter, 2009b);  
CA (Keiper & Walton, 2000; Resh & Mendez, 2022);  
CO (Vaillant, 1984);  
UT (Blickle, 1979; Baumann & Unzicker, 1981).
- Ochrotrichia riesi* Ross, 1944, IL;  
male genitalia (Blickle, 1979);  
AL (Harris, Lago, & O'Neil, 1984; Harris, 1986; Harris, 1987; Harris, 1990; Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
AR (Moulton & Stewart, 1996; Bowles, 2020; Bowles, Cheri, Usrey, & Williams, 2020);  
IL (Ross, 1944; Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
KY (Houp, 1999; Floyd, Moulton, Schuster, Parker, & Robinson, 2012);  
MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Etnier, 2010; Bowles, 2020; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
TN (Edwards, 1966; Etnier & Schuster, 1979; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998);  
WI (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Ochrotrichia robisoni* Frazer & Harris, 1991, AR;  
AR (Frazer & Harris, 1991; Moulton & Stewart, 1996; Etnier, 2010);  
OK (Moulton & Stewart, 1996).
- Ochrotrichia rothi* Denning & Blickle, 1972, AZ  
male genitalia (Blickle, 1979; Ruiter & Harris, 2015);  
AZ (Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979; Ruiter, 1996; Blinn & Ruiter, 2006; Ruiter & Harris, 2015);  
CA (Ruiter & Harris, 2015; Resh & Mendez, 2022);



TX (Moulton & Stewart, 1997; Ruitter & Harris, 2015);  
 UT (Ruitter & Harris, 2015).

*Ochrotrichia salaris* Blickle & Denning, 1977, CA;  
 male genitalia (Blickle, 1979);  
 CA (Blickle & Denning, 1977; Blickle & Denning, 1977; Blickle, 1979; Resh & Mendez, 2022);  
 OR (Blickle, 1979).

*Ochrotrichia shawnee* (Ross, 1938), Polytrichia, IL;  
 male genitalia (Blickle, 1979; Frazer & Harris, 1991);  
 AL (Harris, 1986; Harris, 1987; Harris, O'Neil, & Lago, 1991; Frazer & Harris, 1991;  
 Moulton & Stewart, 1996; Hicks & Haynes, 2000a);  
 IL (Ross, 1938; Ross, 1944; Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979;  
 Frazer & Harris, 1991; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Blickle, 1979; Floyd & Schuster, 1990; Frazer & Harris, 1991;  
 Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NY (Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979; Frazer & Harris, 1991;  
 Moulton & Stewart, 1996);  
 PA (Masteller & Flint, 1992);  
 TN (Edwards, 1966; Etnier & Schuster, 1979; Frazer & Harris, 1991; Moulton & Stewart, 1996;  
 Etnier, Baxter, Fraley, & Parker, 1998; Etnier, Bauer, & Zirkle, 2006);  
 WV (Tarter & Floyd, 2016).

*Ochrotrichia spinosa* (Ross, 1938), Polytrichia, OK;  
 male genitalia (Blickle, 1979; Houghton, 2012);  
 AR (Bowles & Mathis, 1989; Moulton & Stewart, 1996);  
 IL (Ross, 1944; Denning & Blickle, 1972; Blickle & Denning, 1977;  
 Blickle, 1979; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Denning & Blickle, 1972; Blickle & Denning, 1977;  
 Blickle, 1979; Haag, Resh, & Neff, 1984;  
 Moulton & Stewart, 1996; Floyd, Moulton, Schuster, Parker, & Robinson, 2012);  
 MB (Cobb, Flannagan, & Friesen, 1984; Moulton & Stewart, 1996);  
 MI (Houghton, Brandin, & Brakel, 2011;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1968; Blickle, 1979; Moulton & Stewart, 1996;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007; Bowles, 2020;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NT (Wiens et al, 1975; Moulton & Stewart, 1996);  
 OH (McElravy, Arsuffi, & Foote, 1977; Petersen & Foote, 1980;  
 Huryn & Foote, 1983; Usis & MacLean, 1986;  
 Keiper & Foote, 2000; Moulton & Stewart, 1996; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Ross, 1938; Denning & Blickle, 1972; Blickle & Denning, 1977;  
 Blickle, 1979; Bowles & Mathis, 1992;  
 Moulton & Stewart, 1996);  
 PA (Swegman, Walker, & Sykora, 1981; Masteller & Flint, 1992;  
 Moulton & Stewart, 1996);  
 WI (Denning & Blickle, 1972; Longridge & Hilsenhoff, 1973;  
 Hilsenhoff, 1975; Blickle & Denning, 1977; Blickle, 1979;  
 Steven & Hilsenhoff, 1984; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).

- Ochrotrichia spinulata* Denning & Blickle, 1972, AZ;  
 male genitalia (Blickle, 1979);  
 AZ (Denning & Blickle, 1972; Blickle & Denning, 1977;  
 Blickle, 1979; Ruiter, 1996; Blinn & Ruiter, 2006);  
 NM (Blickle, 1979);  
 TX (Moulton & Stewart, 1997).
- Ochrotrichia stylata* (Ross, 1938), *Polytrichia*, WY;  
 male genitalia (Ross, 1944; Flint, 1972; Blickle, 1979; Frazer & Harris, 1991);  
 AZ (Flint, 1972; Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979;  
 Frazer & Harris, 1991; Moulton, Stewart, & Young, 1994; Moulton & Stewart, 1996;  
 Houghton, 2001; Blinn & Ruiter, 2006; Blinn & Ruiter, 2009a; Blinn & Ruiter, 2009b);  
 BC (Nimmo & Scudder, 1983; Moulton & Stewart, 1996);  
 CA (Flint, 1972; Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979;  
 Frazer & Harris, 1991; Moulton & Stewart, 1996; Resh & Mendez, 2022);  
 CO (Denning, 1948; Flint, 1972; Denning & Blickle, 1972; Blickle & Denning, 1977;  
 Blickle, 1979; Herrmann, Ruiter, & Unzicker, 1986; Frazer & Harris, 1991;  
 Moulton & Stewart, 1996; Ruse & Herrmann, 2000;  
 Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 ID (Denning & Blickle, 1972; Blickle & Denning, 1977; Newell & Minshall, 1977; Blickle, 1979;  
 Frazer & Harris, 1991; Moulton & Stewart, 1996);  
 MN (Denning & Blickle, 1972, doubtful identification according to  
 Houghton, Holzenthal, Monson, MacLean, 2001;  
 Blickle & Denning, 1977; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Ross, 1938; Newell, 1970; Flint, 1972; Denning & Blickle, 1972; Blickle & Denning, 1977;  
 Blickle, 1979; Roemhild, 1982; Frazer & Harris, 1991; Moulton & Stewart, 1996);  
 ND (Harris, Lago, & Carlson, 1980; Frazer & Harris, 1991; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NE (Harris, Kondratieff, & Boyle, 2000;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NM (Ruiter, 1999);  
 OK (Ross, 1938; Flint, 1972; Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979;  
 Frazer & Harris, 1991; Bowles & Mathis, 1992; Moulton & Stewart, 1996);  
 OR (Flint, 1972; Anderson, 1976; Blickle, 1979; Frazer & Harris, 1991;  
 Moulton & Stewart, 1996);  
 SD (Denning, 1948; Flint, 1972; Denning & Blickle, 1972; Blickle & Denning, 1977;  
 Blickle, 1979; Frazer & Harris, 1991; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 TX (Moulton & Stewart, 1997; Bowles, Tiemann & Easley, 2007);  
 UT (Denning, 1948; Flint, 1972; Denning & Blickle, 1972; Blickle & Denning, 1977;  
 Baumann & Unzicker, 1981; Moulton & Stewart, 1996);  
 WA (Blickle, 1979; Frazer & Harris, 1991; Moulton & Stewart, 1996);  
 WY (Ross, 1938; Denning, 1947; Flint, 1972; Denning & Blickle, 1972; Blickle & Denning, 1977;  
 Blickle, 1979; Ruiter & Lavigne, 1985; Frazer & Harris, 1991; Moulton & Stewart, 1996;  
 Zuellig, Pineda, & Kondratieff, 2002);  
 Central America (Blickle, 1979);  
 Mexico, Guatemala (Blickle & Denning, 1977;  
 Bueno-Soria & Flint, 1978; Moulton & Stewart, 1996).
- Ochrotrichia susanae* Flint & Herrmann, 1976, CO  
 male genitalia (Blickle, 1979);  
 CO (Flint & Herrmann, 1976; Blickle, 1979; Zuellig, Heinold, Kondratieff, & Ruiter, 2012).
- Ochrotrichia tarsalis* (Hagen, 1861), *Hydroptila*, Canada;  
 male genitalia (Ross, 1944; Flint, 1972; Blickle, 1979;  
 Frazer & Harris, 1991; Houghton, 2012);  
 wings, male & female genitalia (Schmid, 1980);

Canada (Hagen, 1861);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 OK/TX (Resh, White, & White, 1978);  
 AL (Harris, Lago, & O'Neil, 1984; Harris, 1986; Harris, 1987; Frazer, Harris, & Ward, 1991;  
 Harris, O'Neil, & Lago, 1991; Frazer & Harris, 1991);  
 AR (Unzicker, Aggus, & Warren, 1970; Blickle, 1979; Bowles & Mathis, 1989;  
 Frazer & Harris, 1991; Bowles, Cheri, Usrey, & Williams, 2020);  
 AZ (Harris, O'Neil, & Lago, 1991; Frazer & Harris, 1991; Moulton, Stewart, & Young, 1994;  
 Blinn & Ruiter, 2006; Blinn & Ruiter, 2009a; Blinn & Ruiter, 2009b);  
 FL (Flint, 1972; Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979;  
 Frazer & Harris, 1991; Pescador, Rasmussen, & Harris, 1995, 2004;  
 Harris, Rasmussen, & Denson, 2012);  
 IA (Wenke, 1967; Blinn, Ruiter, & Flint, 2009;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1944; Harris, 1971; Flint, 1972; Denning & Blickle, 1972; Blickle & Denning, 1977;  
 Blickle, 1979; Frazer & Harris, 1991;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1944; Flint, 1972; Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979;  
 Waltz & McCafferty, 1983; Frazer & Harris, 1991;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton & Schuster, 1978; Frazer & Harris, 1991);  
 KY (Resh, 1975; Haag, Resh, & Neff, 1984; Frazer & Harris, 1991;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Harris, Lago, & Holzenthal, 1982; Frazer & Harris, 1991);  
 MB (Flannagan, 1978; Flannagan & Flannagan, 1982);  
 MD (Flint, 2008);  
 MI (Harris, O'Neil, & Lago, 1991; Frazer & Harris, 1991; Davis, Hudson, & Armitage, 1991;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979;  
 Frazer & Harris, 1991; Ruiter, 1996;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Ross, 1944; Flint, 1972; Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979;  
 Frazer & Harris, 1991; Mathis & Bowles, 1992; Ferro & Sites, 2007;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Harris, Lago, & Holzenthal, 1982; Frazer & Harris, 1991);  
 NC (Frazer & Harris, 1991; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NE (Harris, Kondratieff, & Boyle, 2000;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NY (Betten, 1934; Ross, 1944; Flint, 1972; Denning & Blickle, 1972; Blickle & Denning, 1977;  
 Blickle, 1979; Schmid, 1980; Frazer & Harris, 1991;  
 Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Marshall, 1939; Huryn & Foote, 1981; Huryn & Foote, 1983; Garono & MacLean, 1988;  
 Frazer & Harris, 1991; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Ross, 1944; Flint, 1972; Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979;  
 Frazer & Harris, 1991; Bowles & Mathis, 1992;  
 Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006);  
 ON (Ross, 1944; Flint, 1972; Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979;  
 Schmid, 1980);  
 PA (Masteller & Flint, 1992);  
 SC (Frazer & Harris, 1991);

- SD (Ruiter, 1999;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
TN (Etnier, Baxter, Fraley, & Parker, 1998; Etnier, Bauer, & Zirkle, 2006);  
TX (Ross, 1944; Edwards & Arnold, 1961; Flint, 1972; Denning & Blickle, 1972; Edwards, 1973;  
Blickle & Denning, 1977; Blickle, 1979; Frazer & Harris, 1991;  
Houghton & Stewart, 1998; Abbott, Stewart, & Moulton, 1997;  
Moulton & Stewart, 1997; Bowles, Tiemann & Easley, 2007);  
VA (Flint, 1972; Blickle, 1979; Parker & Voshell, 1981; Frazer & Harris, 1991;  
Flint, Hoffman, & Parker, 2004; Flint, 2011);  
VT (Bilger, 1986);  
WA (Blinn & Ruiter, 2013);  
WI (Ross, 1944; Flint, 1972; Denning & Blickle, 1972; Longridge & Hilsenhoff, 1973;  
Hilsenhoff, 1975; Blickle & Denning, 1977; Blickle, 1979; Frazer & Harris, 1991;  
Hilsenhoff, 1995;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
WV (Tarter & Donahoe, 1988; Tarter, 1990; Tarter & Floyd, 2016);  
Mexico (Flint, 1972; Blickle & Denning, 1977; Schmid, 1980).
- Ochrotrichia* (O.) *tenanga* Mosely, 1937, Mexico;  
Mexico, Guatemala, Honduras, Costa Rica, Panama, Venezuela, Peru  
(Flint & Reyes, 1991).
- Ochrotrichia tenuata* Blickle & Denning, 1977, OR;  
male genitalia (Blickle, 1979; Ruiter & Harris, 2015);  
CA (Blickle, 1979; Ruiter & Harris, 2015; Resh & Mendez, 2022);  
OR (Blickle & Denning, 1977; Blickle, 1979; Ruiter & Harris, 2015);  
UT (Ruiter & Harris, 2015).
- Ochrotrichia transylvanica* Harris & Floyd, 1997, NC;  
male genitalia (Floyd, Morse, & Harris, 1997);  
NC (Floyd, Morse, & Harris, 1997; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010).
- Ochrotrichia trapoiza* Ross, 1947, CO;  
male genitalia (Blickle, 1979);  
CA (Denning, 1956; Blickle, 1979; Erman, 1987; Erman, 1989; Erman & Erman, 1990;  
Resh & Mendez, 2022);  
CO (Ross, 1947; Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979);  
UT (Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979;  
Baumann & Unzicker, 1981);  
WA (Blickle, 1979);  
WY (Ruiter, 1996).
- Ochrotrichia tuscaloosa* Harris & Kelley, 1984, AL;  
male genitalia (Frazer & Harris, 1991);  
AL (Harris & Kelley, 1984; Harris, 1986; Harris, 1987; Harris, 1990;  
Harris, O'Neil, & Lago, 1991; Frazer & Harris, 1991).
- Ochrotrichia unio* (Ross, 1941), *Polytrichia*, IL;  
male genitalia (Blickle, 1979);  
IL (Ross, 1941; Denning & Blickle, 1972; Blickle, 1979; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
KY (Blickle, 1979; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
OH (Harris & Lawrence, 1978, doubtful record according to Armitage et al., 2011;  
Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
TN (Edwards, 1966; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998).
- Ochrotrichia vertreesi* Denning & Blickle, 1972, OR;  
male genitalia (Blickle, 1979; Ruiter & Harris, 2015);

- CA (Blickle, 1979; Ruiters & Harris, 2015; Resh & Mendez, 2022);  
 OR (Denning & Blickle, 1972; Anderson, 1976;  
 Blickle & Denning, 1977; Blickle, 1979).
- Ochrotrichia weddleae* Ross, 1944, OK;  
 male genitalia (Blickle, 1979);  
 AR (Unzicker, Aggus, & Warren, 1970; Blickle, 1979;  
 Bowles & Mathis, 1989; Moulton & Stewart, 1996; Etnier, 2010);  
 OK (Ross, 1944; Denning & Blickle, 1972; Blickle & Denning, 1977;  
 Blickle, 1979; Bowles & Mathis, 1992;  
 Moulton & Stewart, 1996).
- Ochrotrichia weoka* Harris, 1989, AL;  
 AL (Harris, 1989; Harris, 1990; Harris, O'Neil, & Lago, 1991; Morse et al, 1997);  
 VA (Roble, Flint, & Harris, 2019).
- Ochrotrichia wojcickyi* Blickle, 1963, ME;  
 male genitalia (Blickle, 1979);  
 IN (Waltz & McCafferty, 1983;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MB (Cobb, Flannagan, & Friesen, 1984);  
 ME (Blickle, 1963; Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979);  
 MN (Denning & Blickle, 1972, doubtful identification according to  
 Houghton, Holzenthal, Monson, & MacLean, 2001;  
 Blickle & Denning, 1977; Blickle, 1979);  
 NH (Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979);  
 OH (McElravy, Arsuffi, & Foote, 1977; Blickle, 1979; Huryn & Foote, 1983; Usis & Foote, 1989;  
 Keiper & Foote, 2000; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 PA (Swegman, Walker, & Sykora, 1981; Light & Adler, 1983; Masteller & Flint, 1984;  
 Masteller & Flint, 1992);  
 TN (Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Parker & Voshell, 1981; Flint, Hoffman, & Parker, 2004);  
 WV (Tarter & Floyd, 2016).
- Ochrotrichia xena* (Ross, 1938), *Polytrichia*, IL;  
 male genitalia (Blickle, 1979);  
 mandible (Keiper, 1998);  
 larva (Keiper, 1999);  
 AR (Bowles & Mathis, 1989; Moulton & Stewart, 1996; Etnier, 2010);  
 IL (Ross, 1938; Ross, 1944; Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979;  
 Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Blickle, 1979; Moulton & Stewart, 1996;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OH (Keiper & Foote, 1998; Keiper, 1998; Keiper, 1999; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 TN (Edwards, 1966; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998;  
 Etnier, Bauer, & Zirkle, 2006).
- Ochrotrichia yavapai* Ruiters & Harris, 2015, AZ;  
 male genitalia (Ruiters & Harris, 2015);  
 AZ (Ruiters & Harris, 2015);

UT (Ruiter & Harris, 2015).  
*Ochrotrichia zioni* Denning & Blickle, 1972, UT  
 male genitalia (Blickle, 1979);  
 UT (Denning & Blickle, 1972; Blickle & Denning, 1977; Blickle, 1979).

*Orthotrichia aegerfasciella* (Chambers, 1873), Clymene, KY;  
*Orthotrichia americana*, Banks, 1904, DC (Flint, 1966);  
*Orthotrichia brachiata* Morton, 1905, NY (Ross, 1938);  
*Oxyethira dorsalis* Banks, 1904, VA (Ross, 1944);  
 male genitalia (Kingsolver & Ross, 1961; Blickle, 1979; Houghton, 2012);  
 larva (Keiper, 2002);  
 male & female genitalia (Harris & Rasmussen, 2019);  
 widespread east of the Rocky Mountains  
 (Hamilton & Schuster, 1978);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 OK/TX (Resh, White, & White, 1978);  
 AL (Harris et al, 1983; Harris, Lago, & O'Neil, 1984; Harris, 1986; Harris, 1987;  
 Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996;  
 Hicks & Haynes, 2000a; Hicks & Haynes, 2000b; Harris & O'Neil, 2015;  
 Denson, Rasmussen, & Harris, 2016);  
 AR (Unzicker, Aggus, & Warren, 1970; Blickle, 1979; Bowles & Mathis, 1989;  
 Moulton & Stewart, 1996; Bowles, 2020; Bowles, Cheri, Usrey, & Williams, 2020);  
 CO (Ruiter, 1999; Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 CT (Kingsolver & Ross, 1961; Blickle, 1979; Nelson & Downs, 1995; Moulton & Stewart, 1996);  
 DC (Banks, 1904; Kingsolver & Ross, 1961; Moulton & Stewart, 1996);  
 DE (Lake, 1984; Moulton & Stewart, 1996);  
 FL (Denning, 1947; Frost, 1966; Blickle, 1979; Pescador, Rasmussen, & Harris, 1995, 2004;  
 Moulton & Stewart, 1996; Rasmussen, 2004; Harris, Rasmussen, & Denson, 2012;  
 Denson, Rasmussen, & Harris, 2016; Harris & Rasmussen, 2019);  
 GA (Denning, 1947; Frazer, Harris, & Ward, 1991; Moulton & Stewart, 1996);  
 IA (Blinn, Ruiter, & Flint, 2009;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1944; Harris, 1971; Blickle, 1979; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Kingsolver & Ross, 1961; Blickle, 1979; Waltz & McCafferty, 1983;  
 Moulton & Stewart, 1996;  
 DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton & Schuster, 1978; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Chambers, 1873; Ross, 1944; Resh, 1975; Blickle, 1979;  
 Haag, Resh, & Neff, 1984; Floyd & Schuster, 1990;  
 Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Kingsolver & Ross, 1961; Blickle, 1979;  
 Harris, Lago, & Holzenthal, 1982; Moulton & Stewart, 1996);  
 MA (Neves, 1979; Moulton & Stewart, 1996);  
 MD (Banks, 1904; Ross, 1944; Blickle, 1979; Moulton & Stewart, 1996; Flint, 2008);  
 ME (Procter, 1946; Kingsolver & Ross, 1961; Blickle, 1979; Moulton & Stewart, 1996);  
 MI (Davis, Hudson, & Armitage, 1991; Houghton, Brandin, & Brakel, 2011;  
 Wright, Pytel, & Houghton, 2013;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton & Lardner, 2020; Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

- MN (Ross, 1944; Denning, 1947; Etnier, 1965; Blickle, 1979; Moulton & Stewart, 1996; Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MO (Harris & Lawrence, 1978; Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007; Bowles, 2020; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MS (Harris, Lago, & Holzenthal, 1982; Moulton & Stewart, 1996);
- NC (McAtee, 1915; Moulton & Stewart, 1996; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);
- NH (Morse & Blickle, 1953; Blickle, 1979; Moulton & Stewart, 1996);
- NJ (Blickle, 1979; Moulton & Stewart, 1996);
- NY (Morton, 1905; Banks, 1907; Blickle, 1979; Moulton & Stewart, 1996; Myers, Kondratieff, Mihuc, & Ruiter, 2011);
- OH (Marshall, 1939; Petersen & Foote, 1980; Hury & Foote, 1983; MacLean & MacLean, 1984; Usis & MacLean, 1986; Garono & MacLean, 1988; Moulton & Stewart, 1996; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- OK (Bowles & Mathis, 1992; Moulton & Stewart, 1996; Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006);
- ON (Schmid, 1980; Flannagan & MacDonald, 1987; Moulton & Stewart, 1996);
- PA (Swegman, Walker, & Sykora, 1981; Masteller & Flint, 1992; Moulton & Stewart, 1996);
- QC (Nimmo, 1966; Moulton & Stewart, 1996);
- SC (Morse, Chapin, Herlong & Harvey, 1980; Morse, Hamilton, & Hoffman, 1989; Moulton & Stewart, 1996);
- TN (Edwards, 1955; Edwards, 1956; Edwards, 1966; Etnier & Schuster, 1979; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998; Etnier, Bauer, & Zirkle, 2006);
- TX (Ross, 1944; Edwards & Arnold, 1961; Edwards, 1973; Blickle, 1979; Moulton & Stewart, 1996; Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997; Bowles, Tiemann & Easley, 2007);
- VA (Banks, 1904; Ross, 1944; Blickle, 1979; Parker & Voshell, 1981; Hoffman & Parker, 1997; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004; Flint, 2011);
- WA (Blinn & Ruiter, 2013);
- WI (Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Blickle, 1979; Steven & Hilsenhoff, 1984; Hilsenhoff, 1995; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- WV (Tarter & Floyd, 2016);
- Cuba (Botosaneanu, 1979; Moulton & Stewart, 1996; Botosaneanu, 2002);
- Haiti (Botosaneanu, 2002);
- Mexico (Bueno-Soria & Flint, 1978; Moulton & Stewart, 1996).
- Orthotrichia baldufi* Kingsolver and Ross, 1961, MN;  
 male genitalia (Blickle, 1979; Houghton, 2012);  
 male & female genitalia (Harris & Rasmussen, 2019);
- AL (Harris, 1986; Harris, 1987; Harris, 1990; Harris, O'Neil, & Lago, 1991; Harris & O'Neil, 2015; Harris & Rasmussen, 2019);
- FL (Kingsolver & Ross, 1961; Frost, 1966; Blickle, 1979; Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004; Harris, Rasmussen, & Denson, 2012; Harris & Rasmussen, 2019);
- ID (Harris & Rasmussen, 2019);
- ME (Blickle, 1979; Hury & Harris, 2000; Harris & Rasmussen, 2019);
- MI (Houghton, Brandin, & Brakel, 2011; Wright, Pytel, & Houghton, 2013; Houghton, 2016; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018; Houghton, 2022; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MN (Kingsolver & Ross, 1961; Etnier, 1965; Blickle, 1979; Monson, 1997;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
     Harris & Rasmussen, 2019;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NH (Kingsolver & Ross, 1961; Blickle, 1979);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 QC (Roy & Harper, 1979);  
 TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);  
 WI (Blickle, 1979; Hilsenhoff, 1995;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).  
*Orthotrichia cristata* Morton, 1905, IL;  
 male & female genitalia (Flint, 1968; Harris & Rasmussen, 2019);  
 male genitalia (Kingsolver & Ross, 1961; Blickle, 1979; Houghton, 2012);  
 wings, male sternum VII, male & female genitalia (Schmid, 1980);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 widespread east of the Rocky Mountains (Hamilton & Schuster, 1978);  
 AL (Harris et al, 1983; Harris, Lago, & O'Neil, 1984; Harris, 1986; Harris, 1987;  
     Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Hicks & Haynes, 2000a;  
     Hicks & Haynes, 2000b; Harris & O'Neil, 2015; Denson, Rasmussen, & Harris, 2016);  
 AR (Bowles & Mathis, 1989; Moulton & Stewart, 1996; Etnier, 2010;  
     Bowles, Cheri, Usrey, & Williams, 2020);  
 BC (Ross, 1944; Ross & Spencer, 1952; Wiggins, 1977; Blickle, 1979; Schmid, 1980);  
 CO (Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 DE (Blickle, 1979; Lake, 1984; Moulton & Stewart, 1996);  
 FL (Denning, 1947; Blickle, 1979; Pescador, Rasmussen, & Harris, 1995, 2004;  
     Moulton & Stewart, 1996; Rasmussen, 2004; Harris, Rasmussen, & Denson, 2012;  
     Denson, Rasmussen, & Harris, 2016; Harris & Rasmussen, 2019);  
 GA (Denning, 1947; Moulton & Stewart, 1996);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Morton, 1905; Ross, 1944; Kingsolver & Ross, 1961; Harris, 1971; Blickle, 1979;  
     Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Kingsolver & Ross, 1961; Blickle, 1979; Waltz & McCafferty, 1983;  
     Moulton & Stewart, 1996;  
     DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton & Schuster, 1978; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Blickle, 1979; Resh, 1975; Haag, Resh, & Neff, 1984; Floyd, 1992;  
     Moulton & Stewart, 1996;  
     Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Denning, 1947; Moulton & Stewart, 1996);  
 MB (Flannagan & Flannagan, 1982; Moulton & Stewart, 1996);  
 ME (Blickle, 1979; Moulton & Stewart, 1996; Huryn & Harris, 2000);  
 MI (Ross, 1944; Blickle, 1979; Davis, Hudson, & Armitage, 1991;  
     Moulton & Stewart, 1996; Houghton, Brandin, & Brakel, 2011;  
     Wright, Pytel, & Houghton, 2013; Houghton, 2016;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton, 2022;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Denning, 1947; Etnier, 1965; Moulton & Stewart, 1996; Monson, 1997;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007; Etnier, 2010);



- Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Harris, Lago, & Holzenthal, 1982; Moulton & Stewart, 1996);  
 MT (Ross, 1944; Wiggins, 1977; Blickle, 1979; Roemhild, 1982; Moulton & Stewart, 1996);  
 NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Morse & Blickle, 1953; Blickle, 1979; Moulton & Stewart, 1996);  
 NY (Ulmer, 1907; Moulton & Stewart, 1996; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Huryn & Foote, 1983; Usis & MacLean, 1986; Garono & MacLean, 1988;  
 Moulton & Stewart, 1996; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Ross, 1944; Blickle, 1979; Bowles & Mathis, 1992; Moulton & Stewart, 1996;  
 Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006);  
 ON (Schmid, 1980; Moulton & Stewart, 1996);  
 PA (Swegman, Walker, & Sykora, 1981; Masteller & Flint, 1992; Moulton & Stewart, 1996);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979; Blickle, 1979;  
 Schmid, 1980; Moulton & Stewart, 1996);  
 TN (Ross, 1944; Blickle, 1979; Moulton & Stewart, 1996;  
 Etnier, Baxter, Fraley, & Parker, 1998; Etnier, Bauer, & Zirkle, 2006);  
 TX (Ross, 1944; Edwards, 1973; Blickle, 1979;  
 Houghton & Stewart, 1998; Moulton & Stewart, 1996;  
 Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997;  
 Bowles, Tiemann & Easley, 2007);  
 VA (Parker & Voshell, 1981; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004);  
 WA (Blinn & Ruiter, 2013);  
 WI (Kingsolver & Ross, 1961; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973;  
 Hilsenhoff, 1975; Blickle, 1979; Hilsenhoff, 1995; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Tarter & Floyd, 2016);  
 Cuba (Botosaneanu, 1977; Botosaneanu, 1979; Botosaneanu, 2002);  
 Jamaica (Flint, 1968; Botosaneanu, 2002).
- Orthotrichia curta* Kingsolver and Ross, 1961, FL;  
 male genitalia (Blickle, 1979; Houghton, 2012);  
 male & female genitalia (Harris & Rasmussen, 2019);  
 AL (Harris et al, 1983; Harris, 1986; Harris, 1987;  
 Harris, O'Neil, & Lago, 1991; Harris & O'Neil, 2015);  
 AR (Etnier, 2010);  
 FL (Kingsolver & Ross, 1961; Blickle, 1979;  
 Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004;  
 Harris, Rasmussen, & Denson, 2012; Denson, Rasmussen, & Harris, 2016;  
 Harris & Rasmussen, 2019);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Harris, Lago, & Holzenthal, 1982);  
 MI (Houghton, 2016;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 QC (Roy & Harper, 1979);  
 TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);  
 WI (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Orthotrichia dentata* Kingsolver and Ross, 1961, FL;  
 male genitalia (Blickle, 1979);  
 male & female genitalia (Harris & Rasmussen, 2019);  
 NC/SC (Unzicker, Resh, & Morse, 1982);

- FL (Kingsolver & Ross, 1961; Blickle, 1979;  
Pescador, Rasmussen, & Harris, 1995, 2004; Harris, Rasmussen, & Denson, 2012;  
Denson, Rasmussen, & Harris, 2016; Harris & Rasmussen, 2019);  
MS (Harris, Lago, & Holzenthal, 1982);  
SC (Morse, Chapin, Herlong, & Harvey, 1980);  
VA (Flint, Hoffman, & Parker, 2009).
- Orthotrichia instabilis* Denning, 1948, FL;  
female genitalia (Blickle & Morse, 1957);  
male genitalia (Kingsolver & Ross, 1961; Blickle, 1979);  
male & female genitalia (Harris & Rasmussen, 2019);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
AL (Harris, 1986; Harris, 1990; Harris, O'Neil, & Lago, 1991;  
Moulton & Stewart, 1996; Denson, Rasmussen, & Harris, 2016);  
AR (Bowles & Mathis, 1989; Moulton & Stewart, 1996; Etnier, 2010);  
FL (Denning, 1948; Kingsolver & Ross, 1961; Blickle, 1979;  
Pescador, Rasmussen, & Harris, 1995, 2004; Moulton & Stewart, 1996;  
Harris, Rasmussen, & Denson, 2012; Denson, Rasmussen, & Harris, 2016;  
Harris & Rasmussen, 2019);  
NH (Blickle & Morse, 1957; Kingsolver & Ross, 1961;  
Blickle, 1979; Moulton & Stewart, 1996);  
SC (Morse, 1982; Moulton & Stewart, 1996);  
TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997).
- Oxyethira (Oxytrichia) abacatia* Denning, 1947, GA;  
male genitalia (Blickle, 1979; Blickle, 1980;  
Moulton & Harris, 1999);  
female genitalia (Kelley & Morse, 1982);  
southeastern U.S.A. (Kelley, 1984);  
AL (Harris, 1986; Harris, 1987; Harris, O'Neil, & Lago, 1991;  
Moulton & Harris, 1999; Harris & O'Neil, 2015);  
FL (Blickle, 1979; Kelley & Morse, 1982;  
Pescador, Rasmussen, & Harris, 1995, 2004; Moulton & Harris, 1999; Rasmussen, 2004;  
Harris, Rasmussen, & Denson, 2012; Denson, Rasmussen, & Harris, 2016);  
GA (Denning, 1947; Blickle, 1979; Kelley & Morse, 1982; Moulton & Harris, 1999);  
MN (Monson, 1997);  
NC (Moulton & Harris, 1999; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
NH (Morse & Blickle, 1957; misidentification according to Blickle, 1966);  
SC (Kelley & Morse, 1982);  
TX (Moulton & Stewart, 1997; Moulton & Harris, 1999);  
VA (Flint, 2014; Flint, 2017).
- Oxyethira (Dampfitrichia) aculea* Ross, 1941, OK;  
male genitalia (Blickle, 1979);  
female genitalia (Kelley & Morse, 1982);  
southwestern U.S.A. (Kelley, 1984);  
AL (Harris, Kondratieff, & Stark, 1996; Moulton & Stewart, 1996);  
AZ (Blickle, 1979; Kelley & Morse, 1982;  
Moulton, Stewart, & Young, 1994; Blinn & Ruiter, 2006);  
NM (Ross, 1941; Blickle, 1979; Kelley & Morse, 1982; Moulton & Stewart, 1996);  
NV (Ruiter, Baumann, & Flint, 2014);  
OK (Ross, 1941; Blickle, 1979; Kelley & Morse, 1982;  
Bowles & Mathis, 1992; Moulton & Stewart, 1996);  
TX (Ross, 1941; Blickle, 1979; Moulton & Stewart, 1996; Moulton & Stewart, 1997);  
Mexico (Bueno-Soria & Flint, 1978; Kelley, 1984;  
Moulton & Stewart, 1996; Bowles, Tiemann & Easley, 2007).
- Oxyethira (Oxytrichia) aeola* Ross, 1938, BC;

- male genitalia (Blickle, 1979; Blickle, 1980;  
Moulton & Harris, 1999; Houghton, 2012);  
northwestern U.S.A., southwestern Canada (Kelley, 1984);  
records from PA (Masteller & Flint, 1992), MI, NJ are  
misidentifications according to Moulton & Harris, 1999;  
AB (Blickle, 1979);  
BC (Ross, 1938; Blickle, 1979; Moulton & Harris, 1999);  
MB (Cobb, Flannagan, & Friesen, 1984);  
MI (Houghton, Brandin, & Brakel, 2011;  
Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MN (Blickle, 1979; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MT (Blickle, 1979; Roemhild, 1982);  
NH (Morse & Blickle, 1957; record doubtful Moulton & Harris, 1999);  
OR (Blickle, 1979);  
PA (Masteller & Flint, 1992);  
QC (Roy & Harper, 1979; Harper, 1989; records doubtful Moulton & Harris, 1999);  
SK (Blickle, 1979);  
WA (Blickle, 1979).
- Oxyethira* (*O.*) *allagashensis* Blickle, 1963, ME;  
male genitalia (Blickle, 1979; Kelley, 1985);  
northeastern U.S.A., eastern Canada (Kelley, 1984; Kelley, 1985);  
ME (Blickle, 1963; Blickle, 1979);  
NJ (Blickle, 1979);  
QC (Roy & Harper, 1979; Harper, 1989).
- Oxyethira* (*Oxytrichia*) *anabola* Blickle, 1966, NH;  
male genitalia (Blickle, 1979; Blickle, 1980; Houghton, 2012);  
eastern U.S.A. (Kelley, 1984);  
AL (Harris, 1986; Harris, 1990; Harris, O'Neil, & Lago, 1991; Moulton & Harris, 1999);  
ME (Blickle, 1966; Blickle, 1979; Moulton & Harris, 1999; Huryn & Harris, 2000);  
MI (Moulton & Harris, 1999;  
Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MN (Blickle, 1979; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NF (Moulton & Harris, 1999);  
NH (Blickle, 1966; Blickle, 1979; Moulton & Harris, 1999);  
NJ (Blickle, 1979);  
ON (Blickle, 1979);  
PA (Moulton & Harris, 1999);  
QC (Roy & Harper, 1975; Roy & Harper, 1979; Blickle, 1979; Harper, 1989);  
VA (Flint, Hoffman, & Parker, 2009);  
WI (Steven & Hilsenhoff, 1984; Hilsenhoff, 1995;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Oxyethira* (*Holarctotrichia*) *araya* Ross, 1941, NB;  
male genitalia (Blickle, 1979; Houghton, 2012);  
male & female genitalia (Kelley, 1986);  
northeastern U.S.A., southeastern Canada (Kelley, 1984;  
Kelley, 1986);  
ME (Blickle, 1979);  
MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
Houghton, 2022;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MN (Etnier, 1965; Blickle, 1979; Monson, 1997);

- Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NB (Ross, 1941; Blickle, 1979);  
NS (Blickle, 1979);  
QC (Roy & Harper, 1979; Harper, 1989);  
WI (Blickle, 1979; Hilsenhoff, 1995;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
YT (Blickle, 1979; Wiggins & Parker, 1997).
- Oxyethira (*Dampfitrichia*) arizona Ross, 1948, AZ;  
Oxyethira cirrifera Flint, 1964, Puerto Rico  
(Kelley & Morse, 1982);  
male & female genitalia (Flint, 1968);  
male genitalia (Blickle, 1979; Harris, Rasmussen, & Denson, 2012);  
female genitalia (Kelley & Morse, 1982);  
larva (Keiper & Walton, 1999);  
southwestern U.S.A., northern Mexico (Kelley, 1984);  
AZ (Ross, 1948; Blickle, 1979; Blinn & Ruitter, 2006; Blinn & Ruitter, 2009a;  
Blinn, Ruitter, & Haden, 2012);  
CA (Keiper & Walton, 1999; Tozer, 2022; Resh & Mendez, 2022);  
FL (Harris, Rasmussen, & Denson, 2012);  
NV (Ruitter, Baumann, & Flint, 2014);  
? Buento Rino (Flint, pers comm);  
Cuba (Botosaneanu, 2002);  
Dominica (Flint, pers comm; Botosaneanu, 2002);  
Haiti (Botosaneanu, 2002);  
Jamaica (Flint, 1968; Botosaneanu, 2002);  
Martinique (Botosaneanu, 2002);  
Mexico (Bueno-Soria & Flint, 1978);  
Puerto Rico (Botosaneanu, 2002).
- Oxyethira (*Loxotrichia*) azteca (Mosely, 1937), *Loxotrichia*, Mexico;  
[some records and descriptions are for *O. parce* Edwards & Arnold  
(Flint & Reyes, 1991)]  
male & female genitalia (Flint, 1968);  
male genitalia (Flint, 1974; Blickle, 1979);  
male & female genitalia (Flint, 1981);  
male genitalia (Flint & Reyes, 1991);  
female genitalia (Kelley & Morse, 1982);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
southwestern U.S.A. to Argentina (Kelley, 1984);  
NC (Moulton & Stewart, 1996);  
OK (Moulton & Stewart, 1996;  
Zuellig, Kondratieff, Schmidt, Durfee, Ruitter, & Prather, 2006);  
SC (White & Fox, 1979; Morse, Chapin, Herlong, & Harvey, 1980; Moulton & Stewart, 1996);  
TX (Kelley & Morse, 1982; Moulton & Stewart, 1996; Moulton & Stewart, 1997;  
Bowles, Tiemann & Easley, 2007);  
Belize, Guatemala, Honduras, Costa Rica, Panamá, Venezuela,  
Surinam, Granada, Argentina (Bueno-Soria & Flint, 1978;  
Moulton & Stewart, 1996);  
Grenada (Botosaneanu, 2002);  
Mexico (Mosely, 1937; Moulton & Stewart, 1996);  
Trinidad (Botosaneanu, 2002);  
Tobago (Botosaneanu, 2002).
- Oxyethira (*Holarctotrichia*) chrysocara Harris, 2002, FL;  
FL (Harris, 2002; Pescador, Rasmussen, & Harris, 2004; Rasmussen, 2004;  
Harris, Rasmussen, & Denson, 2012).

*Oxyethira* (*O.*) *coercens* Morton, 1905, NY;  
 male genitalia (Blickle, 1979; Kelley, 1985; Houghton, 2012);  
 northeastern U.S.A., eastern Canada (Kelley, 1984);  
 northern AL to southeastern Canada, MT (Kelley, 1985);  
 AL (Harris, Lago, & O'Neil, 1984; Harris, 1986; Harris, 1990;  
 Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 AR (Bowles & Mathis, 1989; Moulton & Stewart, 1996;  
 Bowles, Cheri, Usrey, & Williams, 2020);  
 IL (Ross, 1944; Blickle, 1979; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1944; Blickle, 1979; Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MB (Ruiter, Boyle, & Zhou, 2013);  
 ME (Blickle, 1979; Moulton & Stewart, 1996; Huryn & Harris, 2000);  
 MI (Houghton, 2016;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Blickle, 1979; Moulton & Stewart, 1996;  
 Monson, 1997;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Etnier, 2010;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Blickle, 1979; Roemhild, 1982; Kelley, 1985; Moulton & Stewart, 1996);  
 NH (Morse & Blickle, 1957; Blickle, 1979; Moulton & Stewart, 1996);  
 NY (Morton, 1905; Ross, 1944; Blickle, 1979; Moulton & Stewart, 1996);  
 OK (Ross, 1944; Blickle, 1979; Kelley & Morse, 1982;  
 Bowles & Mathis, 1992; Moulton & Stewart, 1996);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979; Blickle, 1979; Moulton & Stewart, 1996);  
 TX (Edwards, 1973; Moulton & Stewart, 1996; Moulton & Stewart, 1997);  
 VA (Parker & Voshell, 1981; Kelley & Morse, 1982;  
 Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004);  
 WI (Blickle, 1979; Hilsenhoff, 1995; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Tarter & Floyd, 2016).  
*Oxyethira* (*Oxytrichia*) *dualis* Morton, 1905, NM;  
*Oxyethira* *allosi* Blickle, 1980, CA (Kelley & Morse, 1982);  
 male genitalia (Ross, 1944; Blickle, 1979);  
 female genitalia (Kelley & Morse, 1982);  
 U.S.A. except Southeast (Kelley, 1984);  
 AL (Harris, 1986; Harris, 1987; Harris, 1990;  
 Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 AR (Unzicker, Aggus, & Warren, 1970; Hamilton & Schuster, 1978; Blickle, 1979;  
 Kelley & Morse, 1982; Bowles & Mathis, 1989; Moulton & Stewart, 1996;  
 Bowles, Cheri, Usrey, & Williams, 2020);  
 AZ (Kelley & Morse, 1982; Moulton, Stewart, & Young, 1994;  
 Moulton & Stewart, 1996; Blinn & Ruiter, 2006; Blinn & Ruiter, 2009a);  
 CA (Ross, 1944; Hamilton & Schuster, 1978; Blickle, 1979; Moulton & Stewart, 1996;  
 Resh & Mendez, 2022);  
 CO (Flint & Herrmann, 1976; Herrmann, Ruiter, & Unzicker, 1986; Moulton & Stewart, 1996;  
 Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
 Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
 IL (Blickle, 1979; Moulton & Stewart, 1996);  
 IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996);

- Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton & Schuster, 1978; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Ross, 1944; Hamilton & Schuster, 1978; Blickle, 1979;  
 Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007; Bowles, 2020;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Blickle, 1979; Blickle, 1980; Roemhild, 1982; Moulton & Stewart, 1996);  
 NH (Blickle, 1979; Moulton & Stewart, 1996);  
 NM (Morton, 1905; Ross, 1944; Hamilton & Schuster, 1978; Blickle, 1979;  
 Kelley & Morse, 1982; Moulton & Stewart, 1996);  
 NY (Banks, 1907; Ross, 1944; Hamilton & Schuster, 1978;  
 Blickle, 1979; Moulton & Stewart, 1996);  
 OH (McElravy, Arsuffi, & Foote, 1977, doubtful record, Huryn & Foote, 1983;  
 MacLean & MacLean, 1984; Garono & MacLean, 1988; Moulton & Stewart, 1996;  
 Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Bowles & Mathis, 1992; Moulton & Stewart, 1996);  
 OR (Blickle, 1979; Moulton & Stewart, 1996);  
 PA (Masteller & Flint, 1992);  
 SC (Biondi, 2011);  
 TN (Etnier & Schuster, 1979; Kelley & Morse, 1982;  
 Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998);  
 TX (Ross, 1944; Edwards, 1973; Hamilton & Schuster, 1978; Blickle, 1979;  
 Kelley & Morse, 1982; Moulton & Stewart, 1996; Moulton & Stewart, 1997);  
 UT (Blickle, 1980; Baumann & Unzicker, 1981; Moulton & Stewart, 1996);  
 VA (Ross, 1944; Hamilton & Schuster, 1978; Blickle, 1979;  
 Kelley & Morse, 1982; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004);  
 VT (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 WA (Blinn & Ruiter, 2013);  
 WY (Ruiter & Lavigne, 1985; Moulton & Stewart, 1996;  
 Zuellig, Pineda, & Kondratieff, 2002).
- Oxyethira* (*Holarctotrichia*) *dunbartonensis* Kelley, 1981, SC;  
 female genitalia (Kelley & Morse, 1982);  
 GA (Kelley, 1981; Kelley & Morse, 1982);  
 SC (Kelley, 1981; Kelley & Morse, 1982)  
 VA (Flint, 2017, females only, males needed to confirm identity).
- Oxyethira* (*O.*) *ecornuta* Morton, 1893, Finland;  
 larva (Siltala, 1904);  
 male genitalia (Kelley, 1985; Houghton, 2012);  
 eastern Canada (Kelley 1984);  
 MI (Ruiter, 2010;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Monson & Holzenthal, 1993; Monson, 1997;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton & Holzenthal, 2003;  
 Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Kelley, 1985);  
 Finland (Morton, 1893);  
 Sweden (Kelley, 1985).
- Oxyethira* (*Holarctotrichia*) *elerobi* (Blickle, 1961), *Neotrichia*, FL;  
 male genitalia (Blickle, 1979);  
 male & female genitalia (Kelley, 1981);  
 female genitalia (Kelley & Morse, 1982);  
 southeastern U.S.A. (Kelley, 1984);

AL (Harris, 1986; Harris, 1987; Harris, O'Neil, & Lago, 1991; Harris & O'Neil, 2015);  
 FL (Blickle, 1961; Blickle, 1979; Harris, Lago, & Scheiring, 1982;  
     Kelley & Morse, 1982; Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004;  
     Harris, Rasmussen, & Denson, 2012; Denson, Rasmussen, & Harris, 2016);  
 LA (Harris, O'Neil, & Lago, 1991);  
 SC (Kelley & Morse, 1982);  
 TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997).

*Oxyethira* (*Dampftrichia*) *florida* Denning, 1947, FL;  
 male genitalia (Blickle, 1979);  
 female genitalia (Kelley & Morse, 1982);  
 FL (Denning, 1947; Blickle, 1979; Kelley & Morse, 1982;  
     Kelley, 1984; Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004;  
     Harris, Rasmussen, & Denson, 2012);  
 TX (Edwards & Arnold, 1961; unconfirmed or dubious according to Moulton & Stewart, 1997);  
 Cuba (Botosaneanu, 2002).

*Oxyethira* (*Holarctotrichia*) *forcipata* Mosely, 1934, MI [this locality  
 is in NY, Flint, pers comm];  
 male genitalia (Blickle, 1979);  
 female genitalia (Kelley & Morse, 1982);  
 male & female genitalia (Kelley, 1986);  
 male genitalia & photo of adult (Houghton, 2012);  
 eastern U.S.A., southeastern Canada (Kelley, 1984);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 southern Appalachians to ON to WI (Kelley, 1986);  
 AL (Harris, Lago, & O'Neil, 1984; Harris, 1986; Harris, 1987;  
     Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991;  
     Moulton & Stewart, 1996);  
 AR (Bowles & Mathis, 1989; Moulton & Stewart, 1996;  
     Bowles, Cheri, Usrey, & Williams, 2020);  
 CT (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 GA (Kelley & Morse, 1982; Frazer, Harris, & Ward, 1991;  
     Moulton & Stewart, 1996);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Blickle, 1979; Moulton & Stewart, 1996);  
 IN (DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Floyd & Schuster, 1990; Moulton & Stewart, 1996;  
     Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ME (Blickle, 1979; Moulton & Stewart, 1996; Huryn & Harris, 2000);  
 MI (Mosely, 1934, but this record is actually for NY, Flint, pers comm;  
     Leonard & Leonard, 1949; Blickle, 1979; Moulton & Stewart, 1996; Ruiters, 2010;  
     Houghton, Brandin, & Brakel, 2011; Houghton, 2016;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiters, Bright, Hudson, & Armitage, 2018;  
     Houghton, 2022;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1968; Blickle, 1979; Moulton & Stewart, 1996; Monson, 1997;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Kelley & Morse, 1982; Moulton & Stewart, 1996;  
     Lenat, Ruiters, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Morse & Blickle, 1953; Blickle, 1979; Moulton & Stewart, 1996);  
 NY (Mosely, 1934, MI record is actually NY, Flint, pers comm);

Ross, 1944; Blickle, 1979; Moulton & Stewart, 1996;  
 Myers, Kondratieff, Mihuc, & Ruiters, 2011);  
 OH (McElravy, Arsuffi, & Foote, 1977; Petersen & Foote, 1980; Huryn & Foote, 1983;  
 Usis & MacLean, 1986; Garono & MacLean, 1988; Moulton & Stewart, 1996;  
 Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Zuellig, Kondratieff, Schmidt, Durfee, Ruiters, & Prather, 2006);  
 ON (Ross, 1944; Blickle, 1979; Moulton & Stewart, 1996);  
 PA (Masteller & Flint, 1979; Swegman, Walker, & Sykora, 1981;  
 Masteller & Flint, 1992; Moulton & Stewart, 1996);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979; Blickle, 1979; Moulton & Stewart, 1996);  
 RI (Hunt, 2017);  
 SC (Kelley & Morse, 1982; Moulton & Stewart, 1996);  
 TN (Etnier & Schuster, 1979; Moulton & Stewart, 1996;  
 Etnier, Baxter, Fraley, & Parker, 1998; Etnier, Bauer, & Zirkle, 2006);  
 TX (Edwards & Arnold, 1961);  
 VA (Ross, 1944; Blickle, 1979; Parker & Voshell, 1981;  
 Kelley & Morse, 1982; Hoffman & Parker, 1997;  
 Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004);  
 WI (Ross, 1944; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
 Blickle, 1979; Hilsenhoff, 1995; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).  
 Oxyethira (Argyrobothrus) glasa (Ross, 1941), Loxotrichia, OK;  
 male genitalia (Blickle, 1979);  
 female genitalia (Kelley & Morse, 1982);  
 southeastern U.S.A. (Kelley, 1984);  
 AL (Harris, 1986; Harris, 1987; Frazer, Harris, & Ward, 1991;  
 Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Harris & O'Neil, 2015);  
 AR (Etnier, 2010);  
 FL (Blickle, 1979; Kelley & Morse, 1982;  
 Harris, Lago, & Scheiring, 1982; Pescador, Rasmussen, & Harris, 1995, 2004;  
 Moulton & Stewart, 1996; Rasmussen, 2004; Harris, Rasmussen, & Denson, 2012;  
 Denson, Rasmussen, & Harris, 2016);  
 GA (Blickle, 1979; Kelley & Morse, 1982; Moulton & Stewart, 1996);  
 LA (Blickle, 1979; Kelley & Morse, 1982;  
 Harris, Lago, & Holzenthal, 1982; Moulton & Stewart, 1996);  
 MS (Harris, Lago, & Holzenthal, 1982; Moulton & Stewart, 1996);  
 NC (Lenat, Ruiters, Parker, Robinson, Beaty, & Flint, 2010);  
 OK (Ross, 1941; Blickle, 1979; Kelley & Morse, 1982;  
 Bowles & Mathis, 1992; Moulton & Stewart, 1996);  
 SC (Kelley & Morse, 1982; Moulton & Stewart, 1996);  
 TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);  
 VA (Flint, Hoffman, & Parker, 2009);  
 Costa Rica (Botosaneanu, 2002);  
 Cuba (Botosaneanu, 1979; Moulton & Stewart, 1996; Botosaneanu, 2002).  
 Oxyethira (O.) grisea Betten, 1934, NY;  
 male genitalia (Blickle, 1979);  
 female genitalia (Kelley & Morse, 1982);  
 male & female genitalia (Kelley, 1985);  
 eastern U.S.A., southeastern Canada (Kelley, 1982);  
 SC north to northeastern U.S.A. and west to IL (Kelley, 1985);  
 AL (Harris, 1986; Harris, 1987; Frazer, Harris, & Ward, 1991;  
 Harris, O'Neil, & Lago, 1991);  
 DE (Lake, 1984);  
 FL (Rasmussen, 2004; Harris, Rasmussen, & Denson, 2012);



GA (Frazer, Harris, & Ward, 1991);  
 IL (Ross, 1944; Blickle, 1979;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1944; Blickle, 1979; Waltz & McCafferty, 1983;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Harris, O'Neil, & Lago, 1991);  
 ME (Procter, 1946; Blickle, 1979; Huryn & Harris, 2000);  
 MI (Denning, 1948;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Harris, O'Neil, & Lago, 1991);  
 NC (Morse, Hamilton, & Hoffman, 1989; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Morse & Blickle, 1953; Blickle, 1979);  
 NJ (Blickle, 1979);  
 NS (Ruitter, 2000);  
 NY (Betten, 1934; Ross, 1944; Blickle, 1979; Myers, Kondratieff, Mihuc, & Ruitter, 2011);  
 OH (Usis & Foote, 1989; Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 PA (Masteller & Flint, 1992);  
 QC (Roy & Harper, 1979; Harper, 1989);  
 SC (Kelley & Morse, 1982; Morse, Hamilton, & Hoffman, 1989);  
 TN (Etnier & Schuster, 1979; Kelley & Morse, 1982; Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Kelley & Morse, 1982; Flint, Hoffman, & Parker, 2004; Flint, 2011);  
 WV (Tarter & Floyd, 2016).

Oxyethira (Holarctotrichia) itascae Monson and Holzenthal, 1993, MN;  
 male genitalia (Monson & Holzenthal, 1993; Houghton, 2012);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Monson & Holzenthal, 1993; Monson, 1997;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton & Holzenthal, 2003;  
     Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).

Oxyethira (Loxotrichia) janella Denning, 1948, FL;  
 Oxyethira neglecta Flint, 1964, Puerto Rico (Blickle, 1979);  
 male & female genitalia (Flint, 1968);  
 male genitalia (Blickle, 1979);  
 female genitalia (Kelley & Morse, 1982);  
 southeastern U.S.A. to Amazon (Kelley, 1984);  
 AL (Harris et al, 1983; Harris, Lago, & O'Neil, 1984;  
     Harris, 1986; Harris, 1987; Harris, O'Neil, & Lago, 1991;  
     Moulton & Stewart, 1996; Hicks & Haynes, 2000a;  
     Hicks & Haynes, 2000b; Harris & O'Neil, 2015; Denson, Rasmussen, & Harris, 2016);  
 AR (Moulton & Stewart, 1996);  
 FL (Denning, 1948; Frost, 1966; Blickle, 1979; Harris, Lago, & Scheiring, 1982;  
     Kelley & Morse, 1982; Pescador, Rasmussen, & Harris, 1995, 2004;  
     Moulton & Stewart, 1996; Rasmussen, 2004; Harris, Rasmussen, & Denson, 2012;  
     Denson, Rasmussen, & Harris, 2016);  
 GA (Kelley & Morse, 1982; Moulton & Stewart, 1996);  
 LA (Denning, 1948; Blickle, 1979; Kelley & Morse, 1982;  
     Harris, Lago, & Holzenthal, 1982; Moulton & Stewart, 1996);  
 MS (Kelley & Morse, 1982; Harris, Lago, & Holzenthal, 1982; Moulton & Stewart, 1996);  
 NC (Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 OK (Zuellig, Kondratieff, Schmidt, Durfee, Ruitter, & Prather, 2006);

- SC (Kelley & Morse, 1982; Moulton & Stewart, 1996; Floyd, Morse, & Harris, 1997);  
 TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997;  
     Bowles, Tiemann & Easley, 2007);  
 VA (Flint, Hoffman, & Parker, 2004);  
 Central America (Blickle, 1979; Moulton & Stewart, 1996);  
 South America (Moulton & Stewart, 1996);  
 Antilles (Blickle, 1979);  
 Costa Rica (Bueno-Soria & Flint, 1978);  
 Cuba (Botosaneanu, 1977; Malicky, 1983; Botosaneanu, 2002);  
 Dominica (Bueno-Soria & Flint, 1978; Malicky, 1983; Botosaneanu, 2002);  
 FL to Panama (Malicky, 1983);  
 Grenada (Bueno-Soria & Flint, 1978; Malicky, 1983);  
 Guadelupe (Malicky, 1983; Botosaneanu, 2002);  
 Haiti (Botosaneanu, 2002);  
 Honduras (Bueno-Soria & Flint, 1978);  
 Jamaica (Bueno-Soria & Flint, 1978; Malicky, 1983; Botosaneanu, 2002);  
 Panama (Bueno-Soria & Flint, 1978);  
 Puerto Rico (Flint, 1964; Bueno-Soria & Flint, 1978; Malicky, 1983;  
     Botosaneanu, 2002);  
 Dominican Republic (Botosaneanu, 2002);  
 St. Lucia (Bueno-Soria & Flint, 1978; Malicky, 1983);  
 St. Thomas (Malicky, 1983; Botosaneanu, 2002);  
 St. Vincent (Malicky, 1983).
- Oxyethira* (*Holarctotrichia*) *kelleyi* Harris, 1987, in the work of  
     Harris & Armitage, 1987, FL;  
     FL (Harris & Armitage, 1987; Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004;  
     Harris, Rasmussen, & Denson, 2012).
- Oxyethira* (*Dactylotrichia*) *kingi* Holzenthal & Kelley, 1983, FL;  
     FL (Holzenthal & Kelley, 1983; Pescador, Rasmussen, & Harris, 1995, 2004;  
     Harris, Rasmussen, & Denson, 2012).
- Oxyethira* (*O.*) *lumipollex* Kelley & Harris, 1983, AL;  
     male genitalia (Kelley, 1985; Harris, Rasmussen, & Denson, 2012);  
     AL (Kelley & Harris, 1983; Kelley, 1985; Harris, 1986;  
     Harris, 1987; Harris, O'Neil, & Lago, 1991).
- Oxyethira* (*O.*) *lumosa* Ross, 1948, FL;  
     male genitalia (Blickle, 1979);  
     female genitalia (Kelley & Morse, 1982);  
     male & female genitalia (Kelley, 1985);  
     NC/SC (Unzicker, Resh, & Morse, 1982);  
     southeastern U.S.A. (Kelley, 1982; Kelley, 1985);  
     AL (Harris, 1986; Harris, 1987; Harris, O'Neil, & Lago, 1991; Harris & O'Neil, 2015);  
     FL (Ross, 1948; Frost, 1966; Blickle, 1979; Kelley & Morse, 1982;  
     Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004;  
     Harris, Rasmussen, & Denson, 2012; Denson, Rasmussen, & Harris, 2016);  
     GA (Kelley & Morse, 1982);  
     SC (Morse, Chapin, Herlong, & Harvey, 1980; Kelley & Morse, 1982);  
     TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997).
- Oxyethira* (*Dampfitrichia*) *maya* Denning, 1947, GA;  
     male genitalia (Zimmerman, 1957; Blickle, 1979);  
     female genitalia (Kelley & Morse, 1982);  
     southeastern U.S.A., HI (Kelley, 1984);  
     AL (Harris, 1986; Harris, 1987; Harris, 1990;  
     Harris, O'Neil, & Lago, 1991; Harris & O'Neil, 2015;  
     Denson, Rasmussen, & Harris, 2016);

- FL (Blickle, 1979; Kelley & Morse, 1982; Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004; Harris, Rasmussen, & Denson, 2012; Denson, Rasmussen, & Harris, 2016);
- GA (Denning, 1947; Blickle, 1979; Kelley & Morse, 1982);
- HI (Zimmerman, 1943; Ross, 1948; Zimmerman, 1957; Adachi, 1958; Beardsley, 1960; Beardsley, 1971; Blickle, 1979; Kelley, 1984; Flint, Englund, and Kumashiro, 2003; Evenhuis, Arakaki, & Imada, 2020);
- TX (Moulton & Stewart, 1997; Flint, Englund, and Kumashiro, 2003; Bowles, Tiemann & Easley, 2007);
- Cuba (Botosaneanu, 1977);
- Mexico (Kelley, 1984).
- Oxyethira* (subgenus uncertain?) *mcgregori* Harris & Huryn, 2000, AL  
AL (Harris & Huryn, 2000);  
TN (Harris & Huryn, 2000).
- Oxyethira* (*Holarctotrichia*) *michiganensis* Mosely, 1934, MI [actually NY according to Blickle & Morse, 1954];  
*Oxyethira sodalis* Ross & Spencer, 1952, BC (Blickle, 1979);  
male genitalia (Blickle, 1954; Blickle, 1979; Houghton, 2012);  
female genitalia (Kelley & Morse, 1982);  
male & female genitalia (Kelley, 1986);  
eastern and northern U.S.A., Canada (Kelley, 1984);  
eastern Nearctic (Kelley, 1986);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
AL (Harris, 1986; Harris, 1990; Harris, O'Neil, & Lago, 1991);  
BC (Ross & Spencer, 1952; Morse & Blickle, 1957; Blickle, 1979);  
CT (Harris, O'Neil, & Lago, 1991);  
GA (Blickle, 1979; Kelley & Morse, 1982);  
ME (Blickle, 1979; Huryn & Harris, 2000);  
MI (Mosely, 1934, actually NY, Blickle & Morse, 1954;  
Leonard & Leonard, 1949, doubtful record, Blickle & Morse, 1954;  
Houghton, Brandin, & Brakel, 2011; Houghton, 2016;  
Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
Houghton, 2022;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MN (Etnier, 1965; Blickle, 1979; MacLean, 1995; Monson, 1997;  
Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NB (Zhou et al., 2011);  
NC (Morse, Hamilton, & Hoffman, 1989; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
NH (Blickle & Morse, 1954; Blickle, 1979);  
NY (Mosely, 1934, MI record actually is NY, Blickle & Morse, 1954;  
Ross, 1944; Blickle, 1979; Myers, Kondratieff, Mihuc, & Ruitter, 2011);  
OH (Huryn & Foote, 1983; Usis & Foote, 1989; Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
PA (Harris, O'Neil, & Lago, 1991; Masteller & Flint, 1992);  
QC (Roy & Harper, 1979; Harper, 1989);  
SC (Kelley & Morse, 1982; Morse, Hamilton, & Hoffman, 1989;  
Floyd, Morse, & Harris, 1997);  
TN (Etnier, Baxter, Fraley, & Parker, 1998);  
VA (Parker & Voshell, 1981; Kelley & Morse, 1982; Flint, Hoffman, & Parker, 2004);  
WI (Blickle, 1979; Hilsenhoff, 1995;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Oxyethira* (*Oxytrichia*) *mirabilis* Morton, 1904, Scotland;  
*Oxyethira barnstoni* Harper, 1976, QC (Kelley & Morse, 1982);  
male genitalia (Blickle, 1979; Blickle, 1980; Moulton & Harris, 1999);

Canada (Kelley, 1984);  
 QC (Roy & Harper, 1979; Harper, 1989; Moulton & Harris, 1999);  
 northern Europe (Kelley, 1984);  
 Scotland (Morton, 1904).

*Oxyethira* (*O.*) *novasota* Ross, 1944, TX;  
 male genitalia (Blickle, 1979);  
 female genitalia (Kelley & Morse, 1982);  
 male & female genitalia (Kelley, 1985);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 southeastern U.S.A. west to TX (Kelley, 1982; Kelley, 1985);  
 AL (Harris et al, 1983; Harris, Lago, & O'Neil, 1984;  
     Harris, 1986; Harris, 1987; Harris, O'Neil, & Lago, 1991;  
     Moulton & Stewart, 1996; Hicks & Haynes, 2000a;  
     Hicks & Haynes, 2000b; Harris & O'Neil, 2015; Denson, Rasmussen, & Harris, 2016);  
 AR (Bowles & Mathis, 1989; Moulton & Stewart, 1996);  
 FL (Blickle, 1979; Harris, Lago, & Scheiring, 1982;  
     Kelley & Morse, 1982; Pescador, Rasmussen, & Harris, 1995, 2004;  
     Moulton & Stewart, 1996; Rasmussen, 2004; Harris, Rasmussen, & Denson, 2012;  
     Denson, Rasmussen, & Harris, 2016);  
 GA (Kelley & Morse, 1982; Moulton & Stewart, 1996);  
 IL (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Harris, Lago, & Holzenthal, 1982; Kelley & Morse, 1982; Moulton & Stewart, 1996);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Ferro & Sites, 2007;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Harris, Lago, & Holzenthal, 1982; Kelley & Morse, 1982; Moulton & Stewart, 1996);  
 NC (Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);  
 OH (Garono & MacLean, 1988; Moulton & Stewart, 1996; Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 SC (Kelley & Morse, 1982; Moulton & Stewart, 1996);  
 TN (Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005);  
 TX (Ross, 1944; Blickle, 1979; Kelley & Morse, 1982;  
     Moulton & Stewart, 1996; Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997).

*Oxyethira* (*Holarctotrichia*) *obtatus* Denning, 1947, MN;  
 male genitalia (Blickle, 1979; Houghton, 2012);  
 male & female genitalia (Kelley, 1986);  
 northeastern North America (Kelley, 1986);  
 northeastern U.S.A., southeastern Canada (Kelley, 1984);  
 DE (Blickle, 1979; Lake, 1984);  
 ME (Blickle, 1979; Huryn & Harris, 2000);  
 MI (Houghton, Brandin, & Brakel, 2011; Wright, Pytel, & Houghton, 2013; Houghton, 2016;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
     Houghton, 2022;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Denning, 1947; Etnier, 1965; Blickle, 1979; Monson, 1997;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Blickle, 1979; Marshall & Larson, 1982);  
 NH (Morse & Blickle, 1957; Blickle, 1979);  
 NY (Myers, Kondratieff, Mihuc, & Ruitter, 2011);  
 QC (Roy & Harper, 1979; Blickle, 1979; Harper, 1989);  
 WI (Blickle, 1979; Hilsenhoff, 1995);

Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).

*Oxyethira (Dampftrichia) pallida* (Banks, 1904), *Orthotrichia*, DC;  
*Oxyethira cibola* Denning, 1948, GA (Ross, 1948);  
*Oxyethira viminalis* Morton, 1905, NY (Ross, 1938);  
male genitalia (Ross, 1944; Blickle, 1979; Houghton, 2012);  
female genitalia (Kelley & Morse, 1982);  
OK/TX (Resh, White, & White, 1978);  
widespread east of the Rocky Mountains  
(Hamilton & Schuster, 1978);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
AL (Ross, 1948; Blickle, 1979; Kelley & Morse, 1982;  
Harris et al, 1983; Harris, Lago, & O'Neil, 1984;  
Harris, 1986; Harris, 1987; Frazer, Harris, & Ward, 1991;  
Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996;  
Hicks & Haynes, 2000a; Hicks & Haynes, 2000b; Harris & O'Neil, 2015;  
Denson, Rasmussen, & Harris, 2016);  
AR (Bowles & Mathis, 1989; Moulton & Stewart, 1996;  
Bowles, Cheri, Usrey, & Williams, 2020);  
AZ (Blickle, 1979; Moulton, Stewart, & Young, 1994;  
Moulton & Stewart, 1996; Blinn & Ruiter, 2006; Blinn & Ruiter, 2009a);  
CA (Denning, 1956; Moulton & Stewart, 1996; Resh & Mendez, 2022);  
CO (Ruiter, 1999; Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
DC (Banks, 1904; Blickle, 1979; Moulton & Stewart, 1996);  
DE (Lake, 1984; Moulton & Stewart, 1996);  
FL (Blickle, 1979; Kelley & Morse, 1982; Pescador, Rasmussen, & Harris, 1995, 2004;  
Moulton & Stewart, 1996; Rasmussen, 2004; Harris, Rasmussen, & Denson, 2012;  
Denson, Rasmussen, & Harris, 2016);  
GA (Denning, 1948; Blickle, 1979; Kelley & Morse, 1982; Moulton & Stewart, 1996);  
IA (Blinn, Ruiter, & Flint, 2009;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
IL (Ross, 1944; Harris, 1971; Blickle, 1979; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
KS (Hamilton & Schuster, 1978; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
KY (Blickle, 1979; Resh, 1975; Haag, Resh, & Neff, 1984;  
Floyd & Schuster, 1990; Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006;  
Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
LA (Kelley & Morse, 1982; Harris, Lago, & Holzenthal, 1982; Moulton & Stewart, 1996);  
MD (Blickle, 1979; Moulton & Stewart, 1996);  
ME (Procter, 1946; Blickle, 1979; Moulton & Stewart, 1996);  
MI (Harris, O'Neil, & Lago, 1991; Davis, Hudson, & Armitage, 1991; Moulton & Stewart, 1996;  
Houghton, Brandin, & Brakel, 2011; Houghton, 2016;  
Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MN (Etnier, 1965; Blickle, 1979; Moulton & Stewart, 1996;  
Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MO (Harris & Lawrence, 1978; Mathis & Bowles, 1992; Moulton & Stewart, 1996;  
Ferro & Sites, 2007; Bowles, 2020;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MS (Kelley & Morse, 1982; Harris, Lago & Holzenthal, 1982; Moulton & Stewart, 1996);

NB (Blickle, 1979; Moulton & Stewart, 1996);  
 NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NE (Ross, 1944; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NH (Morse & Blickle, 1953; Blickle, 1979; Moulton & Stewart, 1996; Armitage et al., 2011);  
 NY (Morton, 1905; Ross, 1944; Blickle, 1979; Moulton & Stewart, 1996);  
 OH (Marshall, 1939; Petersen & Foote, 1980; Huryn & Foote, 1983; MacLean & MacLean, 1984;  
     Usis & MacLean, 1986; Garono & MacLean, 1988;  
     Keiper, Casamatta & Foote, 1998; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Ross, 1944; Blickle, 1979; Kelley & Morse, 1982;  
     Bowles & Mathis, 1992; Moulton & Stewart, 1996;  
     Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006; Zhou et al., 2011);  
 PA (Masteller & Flint, 1992);  
 QC (Williams & Williams, 1979; Moulton & Stewart, 1996);  
 SC (Morse, Chapin, Herlong, & Harvey, 1980; Kelley & Morse, 1982; Moulton & Stewart, 1996);  
 TN (Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005;  
     Etnier, Bauer, & Zirkle, 2006);  
 TX (Ross, 1944; Moulton & Stewart, 1996; Abbott, Stewart, & Moulton, 1997;  
     Moulton & Stewart, 1997; Bowles, Tiemann & Easley, 2007);  
 VA (Ross, 1944; Blickle, 1979; Parker & Voshell, 1981; Moulton & Stewart, 1996;  
     Flint, Hoffman, & Parker, 2004; Flint, 2011);  
 WI (Ross, 1944; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975  
     Hilsenhoff, 1995; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Tarter & Donahoe, 1988; Tarter, 1990;  
     Moulton & Stewart, 1996; Tarter & Floyd, 2016);  
 WY (Blickle, 1979; Ruiter & Lavigne, 1985; Moulton & Stewart, 1996).  
*Oxyethira* (*Loxotrichia*) *parce* (Edwards & Arnold, 1961), Protoptila, TX;  
 [synonym of *O. azteca* (Mosely) (Flint, 1981); synonymy in error  
     (Flint & Reyes, 1991)];  
 male genitalia (Flint & Reyes, 1991);  
 southern United States to Chile (Flint, 1991);  
 AL (Harris, Kondratieff, & Stark, 1996);  
 TX (Edwards & Arnold, 1961; Moulton & Stewart, 1997);  
 Colombia (Flint & Reyes, 1991);  
 Margarita (Botosaneanu, 2002);  
 Peru (Flint & Reyes, 1991);  
 Trinidad (Botosaneanu, 2002);  
 Venezuela (Flint & Reyes, 1991);  
 From USA (Texas) and Mexico through Central America to northern South America, Peru,  
 Argentina (Botosaneanu, 2002).  
*Oxyethira* (*O.*) *pembertonensis* Harris & Flint, 2016, BC;  
 male & female genitalia (Harris & Flint, 2016);  
 BC (Harris & Flint, 2016).  
*Oxyethira* *pescadori* Harris & Keth, 2002, AL;  
 AL (Harris & Keth, 2002; Harris & O'Neil, 2015);  
 AR (Etnier, 2010);  
 FL (Harris & Keth, 2002; Pescador, Rasmussen, & Harris, 2004; Rasmussen, 2004;  
     Harris, Rasmussen, & Denson, 2012; Denson, Rasmussen, & Harris, 2016);  
 KY (Etnier, Bauer, & Zirkle, 2006; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 TN (Etnier, Bauer, & Zirkle, 2006);  
 VA (Flint, Hoffman, & Parker, 2004).

*Oxyethira* (*O.*) *rivicola* Blickle and Morse, 1954, NH;  
 male genitalia (Blickle, 1979; Houghton, 2012);  
 female genitalia (Kelley & Morse, 1982);  
 male & female genitalia (Kelley, 1985);  
 northeastern U.S.A., eastern Canada (Kelley, 1984);  
 Southern Appalachian Mountains north to southeastern Canada (Kelley, 1985);  
 AL (Harris, 1986; Harris, 1987; Frazer, Harris, & Ward, 1991;  
     Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996;  
     Hicks & Haynes, 2000a);  
 AR (Bowles & Mathis, 1989; Moulton & Stewart, 1996; Etnier, 2010);  
 GA (Frazer, Harris, & Ward, 1991; Moulton & Stewart, 1996);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ME (Blickle, 1979; Moulton & Stewart, 1996; Hury & Harris, 2000);  
 MI (Houghton, Brandin, & Brakel, 2011; Houghton, 2015; Houghton, 2016;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton, 2022;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Blickle, 1979; MacLean, 1995; Moulton & Stewart, 1996;  
     Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NH (Blickle & Morse, 1954; Blickle, 1979; Moulton & Stewart, 1996);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 PA (Masteller & Flint, 1992);  
 QC (Roy & Harper, 1979; Harper, 1989; Moulton & Stewart, 1996);  
 SC (Floyd, Morse, & Harris, 1997);  
 TN (Etnier, 1973; Blickle, 1979; Kelley & Morse, 1982;  
     Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Kelley & Morse, 1982; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004);  
 WI (Blickle, 1979; Hilsenhoff, 1995; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).  
*Oxyethira* (*Argyrobothrus*) *roberti* Roy & Harper, 1980, QC;  
*Oxyethira leonensis* Kelley, 1981, FL (Kelley, 1984);  
 larva, pupa, case (Back, 1983);  
 AL (Back, 1983; Harris et al, 1983; Harris, 1986; Harris, 1987;  
     Harris, O'Neil, & Lago, 1991; Harris & O'Neil, 2015);  
 FL (Kelley, 1981; Kelley & Morse, 1982; Back, 1983;  
     Pescador, Rasmussen, & Harris, 1995, 2004; Harris, Rasmussen, & Denson, 2012;  
     Denson, Rasmussen, & Harris, 2016);  
 QC (Roy & Harper, 1980);  
 SC (Back, 1983);  
 TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997).  
*Oxyethira* (*O.*) *rossi* Blickle and Morse, 1957, NH;  
*Oxyethira beneri* Etnier, 1965, MN (Etnier, 1968);  
 male genitalia (Blickle, 1979; Houghton, 2012);  
 female genitalia (Kelley & Morse, 1982);  
 male & female genitalia (Kelley, 1985);  
 northeastern U.S.A., southeastern Canada (Kelley, 1984);  
 Southern Appalachian Mountains north to southeastern Canada and  
     west to MN (Kelley, 1985);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ME (Blickle, 1979; Hury & Harris, 2000);  
 MN (Etnier, 1965; Blickle, 1979; Kelley, 1985;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012);

Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NH (Blickle & Morse, 1957; Blickle, 1979);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 TN (Etnier & Schuster, 1979; Kelley & Morse, 1982; Etnier, Baxter, Fraley, & Parker, 1998);  
 WI (Blickle, 1979; Hilsenhoff, 1995);  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).  
*Oxyethira* (*O.*) *savanniensis* Kelley & Harris, 1983, SC;  
 possible female genitalia (Kelley, 1981, as *O. dunbartonensis*, Kelley, 1985);  
 male genitalia (Kelley, 1985);  
 southeastern U.S.A. (Kelley, 1985);  
 AL (Kelley & Harris, 1983; Harris, 1986; Harris, 1990;  
 Harris, O'Neil, & Lago, 1991; Harris & O'Neil, 2015);  
 FL (Harris, O'Neil, & Lago, 1991; Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004;  
 Harris, Rasmussen, & Denson, 2012; Denson, Rasmussen, & Harris, 2016);  
 SC (Kelley & Harris, 1983).  
*Oxyethira* (*Holarctotrichia*) *serrata* Ross, 1938, IL;  
 larva (Ross, 1944);  
 male genitalia (Blickle, 1979; Houghton, 2012);  
 wings, male & female genitalia (Schmid, 1980);  
 female genitalia (Kelley & Morse, 1982);  
 male & female genitalia (Kelley, 1986);  
 eastern Nearctic (Kelley, 1986);  
 northeastern U.S.A., southeastern Canada (Kelley, 1984);  
 AB (Blickle, 1979);  
 BC (Denning, 1947; Ross & Spencer, 1952; Blickle, 1979);  
 CO (Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 CT (Downs & Godwin, 1987; Nelson & Downs, 1995);  
 ID (Blickle, 1979);  
 IL (Ross, 1938; Ross, 1944; Blickle, 1979;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MB (Flannagan & Lawler, 1972; Flannagan & Flannagan, 1982;  
 Resh, Rosenberg, & Wiens, 1983);  
 ME (Blickle, 1979);  
 MI (Ross, 1938; Leonard & Leonard, 1949; Blickle, 1979; Houghton, Brandin, & Brakel, 2011;  
 Houghton, 2016;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Denning, 1947; Etnier, 1965; Blickle, 1979; Monson, 1997;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ND (Harris, Lago, & Carlson, 1980;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NH (Morse & Blickle, 1953; Blickle, 1979);  
 NY (Ross, 1944; Blickle, 1979);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979; Blickle, 1979; Harper, 1989);  
 ? (check) SK (Oluin, 1960);  
 TN (Edwards, 1966; Etnier & Schuster, 1979; Kelley & Morse, 1982;  
 Etnier, Baxter, Fraley, & Parker, 1998);  
 UT (Baumann & Unzicker, 1981);  
 WA (Blinn & Ruiter, 2013);  
 WI (Ross, 1938; Ross, 1944; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973;  
 Hilsenhoff, 1975; Blickle, 1979; Hilsenhoff, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);



- WY (Denning, 1948; Blickle, 1979; Ruiter & Lavigne, 1985).
- Oxyethira* (*Holarctotrichia*) *setosa* Denning, 1947, GA;  
 male genitalia (Blickle, 1979);  
 AL (Harris, 1986; Harris, 1987; Harris, O'Neil, & Lago, 1991; Harris & O'Neil, 2015);  
 FL (Blickle, 1979; Harris, Lago, & Scheiring, 1982;  
 Kelley & Morse, 1982; Kelley, 1984;  
 Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004;  
 Harris, Rasmussen, & Denson, 2012; Denson, Rasmussen, & Harris, 2016);  
 GA (Denning, 1947; Blickle, 1979; Kelley & Morse, 1982;  
 Kelley, 1984).
- Oxyethira* (*O.*) *sida* Blickle & Morse, 1954, NH;  
 male genitalia (Blickle, 1979; Kelley, 1985; Houghton, 2012);  
 northeastern U.S.A. to WI (Kelley, 1985);  
 ME (Blickle, 1979; Huryn & Harris, 2000);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Blickle, 1979;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Blickle, 1979; Marshall & Larson, 1982);  
 NH (Blickle & Morse, 1954; Blickle, 1979);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 PA (Masteller & Flint, 1992);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979; Blickle, 1979);  
 WI (Blickle, 1979; Kelley, 1985; Hilsenhoff, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Oxyethira simulatrix* Flint, 1968, Jamaica;  
*Oxyethira simulatrix cubana* Kumanski, Cuba (Flint & Sykora, 2004);  
 male genitalia (Harris, Rasmussen, & Denson, 2012);  
 FL (Harris, Rasmussen, & Denson, 2012)  
 wide distribution on the greater Antilles (not yet recorded from Puerto Rico), Costa Rica, Mexico,  
 Panama, Haiti, & Dominican Republic (Flint & Sykora, 2004);  
 Nicaragua (Chamorro-Lacayo, Maes, Holzenthal, & Blahnik, 2007).
- Oxyethira* (*Oxytrichia*) *sininsigne* Kelley, 1981, FL;  
 female genitalia (Kelley & Morse, 1982);  
 southeastern U.S.A. (Kelley, 1984);  
 AL (Harris, 1986; Harris, 1990; Harris, O'Neil, & Lago, 1991; Harris & O'Neil, 2015);  
 FL (Kelley, 1981; Kelley & Morse, 1982; Pescador, Rasmussen, & Harris, 1995, 2004;  
 Harris, Rasmussen, & Denson, 2012; Denson, Rasmussen, & Harris, 2016);  
 LA (Harris, Lago, & Holzenthal, 1982; Kelley & Morse, 1982);  
 SC (Kelley, 1981; Kelley & Morse, 1982).
- Oxyethira* (*Dampfitrichia*) *ulmeri* Mosely, 1937, Mexico;  
 male genitalia (Blickle, 1979);  
 female genitalia (Kelley & Morse, 1982);  
 southwestern U.S.A. (Kelley, 1984);  
 TX (Ross, 1944; Blickle, 1979; Kelley & Morse, 1982;  
 Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997;  
 Bowles, Tiemann, & Easley, 2007);  
 Mexico (Mosely, 1937; Ross, 1944; Bueno-Soria & Flint, 1978;  
 Kelley, 1984).
- Oxyethira* (*Dampfitrichia*) *verna* Ross, 1938, IL;  
 male genitalia (Blickle, 1979; Houghton, 2012);  
 female genitalia (Kelley & Morse, 1982);

NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris, 1986; Harris, 1987; Harris, O'Neil, & Lago, 1991; Harris & O'Neil, 2015);  
 FL (Denning, 1947; Blickle, 1979; Kelley & Morse, 1982;  
     Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004;  
     Harris, Rasmussen, & Denson, 2012);  
 IL (Ross, 1938; Ross, 1944; Blickle, 1979;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Denning, 1947; Blickle, 1979; Harris, Lago, & Holzenthal, 1982; Kelley & Morse, 1982);  
 ME (Blickle, 1979);  
 MI (Blickle, 1979; Davis, Hudson, & Armitage, 1991;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitel, Bright, Hudson, & Armitage, 2018;  
     Houghton, 2022;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Blickle, 1979; Monson & Holzenthal, 1993; Monson, 1997;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NB (Ross, 1944; Blickle, 1979; Flannagan & MacDonald, 1987);  
 NC (Lenat, Ruitel, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Morse & Blickle, 1957; Blickle, 1979);  
 NJ (Blickle, 1979);  
 ON (Flannagan & MacDonald, 1987);  
 SC (Kelley & Morse, 1982);  
 TN (Blickle, 1979);  
 TX (Kelley & Morse, 1982; Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);  
 WI (Blickle, 1979; Hilsenhoff, 1995;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).  
*Oxyethira* (*Argyrobothrus*) *zeronia* Ross, 1941, MI;  
*Oxyethira walteri* Denning, 1947, FL (Blickle, 1979);  
 male genitalia (Blickle, 1979; Houghton, 2012);  
 female genitalia (Kelley & Morse, 1982);  
 eastern U.S.A., southeastern Canada (Kelley, 1984);  
 AL (Harris, Lago, & O'Neil, 1984; Harris, 1986; Harris, 1987;  
     Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991;  
     Moulton & Stewart, 1996; Hicks & Haynes, 2000a; Harris & O'Neil, 2015);  
 AR (Bowles & Mathis, 1989; Moulton & Stewart, 1996; Etnier, 2010;  
     Bowles, Cheri, Usrey, & Williams, 2020);  
 FL (Blickle, 1979; Kelley & Morse, 1982;  
     Harris, Lago, & Scheiring, 1982; Pescador, Rasmussen, & Harris, 1995, 2004;  
     Moulton & Stewart, 1996; Rasmussen, 2004; Harris, Rasmussen, & Denson, 2012;  
     Denson, Rasmussen, & Harris, 2016);  
 GA (Denning, 1947; Blickle, 1979; Kelley & Morse, 1982;  
     Frazer, Harris, & Ward, 1991; Moulton & Stewart, 1996);  
 IL (Ross, 1944; Hamilton & Schuster, 1978; Blickle, 1979; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton & Schuster, 1978; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Floyd & Schuster, 1990; Moulton & Stewart, 1996;  
     Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Denning, 1947; Blickle, 1979; Kelley & Morse, 1982; Moulton & Stewart, 1996);  
 ME (Hamilton & Schuster, 1978; Blickle, 1979; Moulton & Stewart, 1996);  
 MI (Ross, 1941; Hamilton & Schuster, 1978; Blickle, 1979;  
     Moulton & Stewart, 1996; Houghton, Brandin, & Brakel, 2011; Houghton, 2016;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitel, Bright, Hudson, & Armitage, 2018;  
     Houghton, 2022);

Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1968; Blickle, 1979; Moulton & Stewart, 1996; Monson, 1997;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Harris, Lago, & Holzenthal, 1982; Moulton & Stewart, 1996);  
 NC (Kelley & Morse, 1982; Moulton & Stewart, 1996;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Morse & Blickle, 1953; Hamilton & Schuster, 1978; Blickle, 1979;  
 Moulton & Stewart, 1996);  
 NJ (Blickle, 1979; Moulton & Stewart, 1996);  
 NS (Blickle, 1979; Moulton & Stewart, 1996);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Huryn & Foote, 1983; Moulton & Stewart, 1996; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Bowles & Mathis, 1992; Moulton & Stewart, 1996;  
 Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006);  
 PA (Masteller & Flint, 1992);  
 QC (Roy & Harper, 1979; Harper, 1989; Moulton & Stewart, 1996);  
 RI (Hunt, 2017);  
 SC (Kelley & Morse, 1982; Morse, Hamilton, & Hoffman, 1989; Moulton & Stewart, 1996);  
 TN (Etnier, 1973; Hamilton & Schuster, 1978; Blickle, 1979; Kelley & Morse, 1982;  
 Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998;  
 Etnier, Bauer, & Zirkle, 2006);  
 TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);  
 VA (Parker & Voshell, 1981; Kelley & Morse, 1982;  
 Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004);  
 WA (Blinn & Ruiter, 2013);  
 WI (Blickle, 1979; Hilsenhoff, 1995; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).

*Palaeagapetus celsus* (Ross, 1938), *Paragapetus*, NC;  
 larva, case (Flint, 1962; Wiggins, 1977);  
 male genitalia (Blickle, 1979);  
 wings, male & female abdominal segments V-X, male & female genitalia  
 (Ito, Wisseman, Morse, Colbo, & Weaver, 2014);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Ito, Wisseman, Morse, Colbo, & Weaver, 2014;  
 Evans, Floyd, Etnier, Cook, & Vogel, 2017;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ME (Bilger, 1986; only know from 1 larval record from EPA database according to  
 Ito, Wisseman, Morse, Colbo, & Weaver, 2014);  
 NB (Harris & Lawrence, 1978 [listed as occurring but no collection information or specimens are  
 known according to Ito, Wisseman, Morse, Colbo, & Weaver, 2014]);  
 NC (Ross, 1938; Wray, 1950; Wiggins, 1977; Blickle, 1979; Huryn & Wallace, 1988;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011;  
 Ito, Wisseman, Morse, Colbo, & Weaver, 2014);  
 NF (Ito, Wisseman, Morse, Colbo, & Weaver, 2014);  
 NH (Ross, 1944; Blickle, 1979; Ito, Wisseman, Morse, Colbo, & Weaver, 2014);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011; Ito, Wisseman, Morse, Colbo, & Weaver, 2014);  
 OK (Blickle, 1979; Bowles & Mathis, 1992; no specimens known according to  
 Ito, Wisseman, Morse, Colbo, & Weaver, 2014);  
 PA (Blickle, 1979; Masteller & Flint, 1980; Masteller & Flint, 1992);

- Ito, Wisseman, Morse, Colbo, & Weaver, 2014);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979; Wiggins, 1977;  
 Blickle, 1979; Williams & Williams, 1987;  
 Ito, Wisseman, Morse, Colbo, & Weaver, 2014);  
 TN (Ross, 1944; Wiggins, 1977; Etnier & Schuster, 1979;  
 Blickle, 1979; Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005;  
 Ito, Wisseman, Morse, Colbo, & Weaver, 2014);  
 VA (Parker & Voshell, 1981; Flint, Hoffman, & Parker, 2004;  
 Ito, Wisseman, Morse, Colbo, & Weaver, 2014);  
 VT (Wimmer, 1979; Ito, Wisseman, Morse, Colbo, & Weaver, 2014);  
 WV (Tarter, 1990; Griffith & Perry, 1992; Ito, Wisseman, Morse, Colbo, & Weaver, 2014;  
 Tarter & Floyd, 2016).
- Palaeagapetus nearcticus* Banks, 1936, WA;  
*Palaeagapetus guppyi* Schmid, 1951, BC (Botosaneanu & Levanidova, 1987);  
 male genitalia (Blickle, 1979);  
 male head & thorax, wings, male & female abdominal segments V-X, male & female genitalia,  
 final instar & case, early instar, egg (Ito, Wisseman, Morse, Colbo, & Weaver, 2014);  
 BC (Schmid, 1951; Schmid & Guppy, 1952; Blickle, 1979; Williams & Williams, 1987;  
 Ito, Wisseman, Morse, Colbo, & Weaver, 2014);  
 CA (Denning, 1956; Blickle, 1979; Ito, Wisseman, Morse, Colbo, & Weaver, 2014;  
 Resh & Mendez, 2022);  
 OR (Anderson & Wold, 1972; Anderson, 1976; Blickle, 1979;  
 Ito, Wisseman, Morse, Colbo, & Weaver, 2014);  
 WA (Banks, 1936; Ross, 1944; Blickle, 1979; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005;  
 Ito, Wisseman, Morse, Colbo, & Weaver, 2014).
- Paucicalcaria ozarkensis* Mathis & Bowles, 1989, AR;  
 AR (Mathis & Bowles, 1989; Moulton & Stewart, 1996; Etnier, 2010).
- Stactobiella Brustia* (Ross, 1938), *Stactobia*, WY;  
 male genitalia (Blickle, 1979);  
 AZ (Blickle, 1979; Blinn & Ruiter, 2006);  
 CO (Herrmann, Ruiter, & Unzicker, 1986; Ruse & Herrmann, 2000);  
 OR (Blickle, 1979);  
 UT (Blickle, 1979; Baumann & Unzicker, 1981);  
 WY (Ross, 1938; Denning, 1948; Blickle, 1979; Ruiter & Lavigne, 1985).
- Stactobiella cahaba* Harris, 1985, AL;  
 AL (Harris, 1985; Harris, 1986; Harris, 1990; Harris, O'Neil, & Lago, 1991; Morse et al, 1997).
- Stactobiella delira* (Ross, 1938), *Stactobia*, WI;  
 male genitalia (Blickle, 1979; Houghton, 2012);  
 wings, male & female genitalia (Schmid, 1980);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris, 1986; Harris, 1987; Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991;  
 Moulton & Stewart, 1996; Hicks & Haynes, 2000a);  
 AR (Smith, 1969; Hamilton & Schuster, 1978; Bowles & Mathis, 1989; Moulton & Stewart, 1996;  
 Etnier, 2010; Bowles, Cheri, Usrey, & Williams, 2020);  
 BC (Nimmo & Scudder, 1983; Moulton & Stewart, 1996);  
 CA (Blickle, 1979; Moulton & Stewart, 1996; Resh & Mendez, 2022);  
 CO (Denning, 1947; Denning, 1948; Hamilton & Schuster, 1978; Swegman & Ferrington, 1980;  
 DeWalt, Stewart, Moulton, & Kennedy, 1994; Moulton & Stewart, 1996;  
 Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 ID (Smith, 1969; Hamilton & Schuster, 1978; Blickle, 1979; Moulton & Stewart, 1996);  
 IL (Blickle, 1979; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996);

- Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton & Schuster, 1978; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Smith, 1969; Resh, 1975; Hamilton & Schuster, 1978; Blickle, 1979;  
 Floyd & Schuster, 1990; Moulton & Stewart, 1996;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ME (Hamilton & Schuster, 1978; Moulton & Stewart, 1996; Huryn & Harris, 2000);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Moulton & Stewart, 1996;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Schmid, 1980; Moulton & Stewart, 1996);  
 NB (Zhou et al., 2011);  
 NC (Smith, 1969; Hamilton & Schuster, 1978; Morse, Hamilton, & Hoffman, 1989;  
 Moulton & Stewart, 1996; DeWalt, Jacobus, & McCafferty, 2007;  
 Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Morse & Blickle, 1953; Hamilton & Schuster, 1978; Blickle, 1979;  
 Moulton & Stewart, 1996);  
 NY (Myers, Kondratieff, Mihuc, & Ruitter, 2011);  
 OH (Huryn & Foote, 1981; Huryn & Foote, 1983; Moulton & Stewart, 1996;  
 Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Smith, 1969; Hamilton & Schuster, 1978; Blickle, 1979;  
 Bowles & Mathis, 1992; Moulton & Stewart, 1996);  
 OR (Blickle, 1979; Anderson & Hansen, 1987; Moulton & Stewart, 1996);  
 PA (Masteller & Flint, 1980; Masteller & Flint, 1992; Moulton & Stewart, 1996);  
 SC (Morse et al, 1979; Morse, Hamilton, & Hoffman, 1989;  
 Floyd & Morse, 1993; Moulton & Stewart, 1996;  
 Floyd, Morse, & Harris, 1997);  
 TN (Smith, 1969; Hamilton & Schuster, 1978; Blickle, 1979;  
 Etnier & Schuster, 1979; Moulton & Stewart, 1996;  
 Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005);  
 VA (Parker & Voshell, 1981; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004);  
 WA (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996;  
 Zack, Ruitter, Strenge, & Landolt, 2006; Blinn & Ruitter, 2013);  
 WI (Ross, 1938; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
 Hamilton & Schuster, 1978; Blickle, 1979; Hilsenhoff, 1995; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Denning, 1948; Smith, 1969; Hamilton & Schuster, 1978; Tarter & Donahoe, 1988;  
 Tarter, 1990; Griffith & Perry, 1992; Moulton & Stewart, 1996; Tarter & Floyd, 2016);  
 WY (Denning, 1948; Hamilton & Schuster, 1978; Blickle, 1979;  
 Ruitter & Lavigne, 1985; Moulton & Stewart, 1996);  
 YT (Wiggins & Parker, 1997).  
 Stactobiella martynovi Blickle and Denning, 1977, TN;  
 Stactobiella solzhenitsyni Sykora & Weaver, 1978, PA  
 (Weaver, 1990b);  
 male genitalia (Blickle, 1979);  
 AL (Harris et al, 1983; Harris, Lago, & O'Neil, 1984;  
 Harris, 1986; Harris, 1987; Harris, O'Neil, & Lago, 1991);  
 KY (Houp, 1999; Floyd, Moulton, Schuster, Parker, & Robinson, 2012);

Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Morse, Hamilton, & Hoffman, 1989; DeWalt, Jacobus, & McCafferty, 2007;  
 Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);  
 NY (Myers, Kondratieff, Mihuc, & Ruitter, 2011);  
 OH (Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 PA (Harris, O'Neil, & Lago, 1991; Masteller & Flint, 1992);  
 SC (Morse, Hamilton, & Hoffman, 1989; Floyd, Morse, & Harris, 1997);  
 TN (Blickle & Denning, 1977; Blickle, 1979; Etnier, Baxter, Fraley, & Parker, 1998;  
 DeWalt & Heinold, 2005; Etnier, Bauer, & Zirkle, 2006);  
 VA (Parker & Voshell, 1981; Flint, Hoffman, & Parker, 2004).  
*Stactobiella palmata* (Ross, 1938), *Stactobia*, WI;  
 male genitalia (Blickle, 1979; Houghton, 2012);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AB (Blickle, 1979; Moulton & Stewart, 1996);  
 AL (Harris et al, 1983; Harris, 1986; Harris, 1987;  
 Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991;  
 Moulton & Stewart, 1996; Hicks & Haynes, 2000a);  
 AR (Frazer, Robison, & Harris, 1991; Moulton & Stewart, 1996; Etnier, 2010;  
 Bowles, Cheri, Usrey, & Williams, 2020);  
 IL (Ross, 1938; Ross, 1944; Hamilton & Schuster, 1978; Blickle, 1979;  
 Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton & Schuster, 1978; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Ross, 1938; Resh, 1975; Hamilton & Schuster, 1978;  
 Blickle, 1979; Haag, Resh, & Neff, 1984;  
 Floyd & Schuster, 1990; Moulton & Stewart, 1996;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MB (Flannagan, 1978; Flannagan & Flannagan, 1982;  
 Cobb, Flannagan, & Friesen, 1984; Moulton & Stewart, 1996);  
 ME (Hamilton & Schuster, 1978; Blickle, 1979; Moulton & Stewart, 1996);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1968; Moulton & Stewart, 1996; Harris, Kondratieff, & Boyle, 2000;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Morse & Blickle, 1953; Hamilton & Schuster, 1978;  
 Blickle, 1979; Moulton & Stewart, 1996);  
 NS (Ruitter, 2000);  
 NY (Myers, Kondratieff, Mihuc, & Ruitter, 2011);  
 OH (Huryn & Foote, 1983; Usis & MacLean, 1986; Moulton & Stewart, 1996;  
 Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Ross, 1944; Hamilton & Schuster, 1978; Blickle, 1979;  
 Bowles & Mathis, 1992; Moulton & Stewart, 1996);  
 OR (Blickle, 1979; Moulton & Stewart, 1996);  
 PA (Masteller & Flint, 1992);  
 SD (Blickle, 1979; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

TN (Ross, 1938; Hamilton & Schuster, 1978;  
Etnier & Schuster, 1979; Blickle, 1979;  
Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998);  
VA (Parker & Voshell, 1981; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004);  
WI (Ross, 1938; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hamilton & Schuster, 1978;  
Blickle, 1979; Schmid, 1980; Steven & Hilsenhoff, 1984; Hilsenhoff, 1995;  
Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
WV (Tarter & Floyd, 2016).

*Zumatrachia notosa* (Ross, 1944), *Leucotrichia*, MT;  
male genitalia (Flint, 1970; Blickle, 1979);  
AZ (Blickle, 1979; Houghton, 2001; Blinn & Ruiters, 2006);  
MT (Ross, 1944; Flint, 1970; Wiggins, 1977; Blickle, 1979; Roemhild, 1982; Stagliano, 2020);  
NM (Ruiters, 1999; Blinn & Ruiters, 2009a).

Lepidostomatidae (2 genera, 72 species) —Bizarre Caddisflies

*Lepidostoma acarola* Denning, 1962, AZ;  
case, wings, male and female genitalia (Weaver, 1988);  
AZ (Denning, 1962; Weaver, 1988; Weaver, 2002; Blinn & Ruiters, 2006);  
NM (Weaver, 1988; Weaver, 2002).

*Lepidostoma americanum* (Banks, 1897), *Olemira*, NY;  
female genitalia (Flint & Wiggins, 1961);  
head, wings, male and female genitalia (Weaver, 1988);  
male genitalia (Houghton, 2012);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
eastern Nearctic (Weaver, 2002);  
CT (Nelson & Downs, 1995);  
DE (Lake, 1984; Weaver, 1988);  
GA (Ross, 1946; Weaver, 1988);  
MA (Banks, 1914; Neves, 1979; Weaver, 1988);  
MB (Ross, 1946);  
ME (Johnson, 1927; Procter, 1946; Blickle & Morse, 1966;  
Mingo & Gibbs, 1980; Bilger, 1986; Weaver, 1988);  
MN (Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NC (Flint & Wiggins, 1961; Armitage & Tennesen, 1984;  
Weaver, 1988; Morse, Hamilton, & Hoffman, 1989;  
Floyd, Morse, & Harris, 1997; Lenat, Ruiters, Parker, Robinson, Beaty, & Flint, 2010);  
NH (Morse & Blickle, 1953; Weaver, 1988);  
NY (Banks, 1897; Weaver, 1988; Myers, Kondratieff, Mihuc, & Ruiters, 2011);  
PA (Weaver, 1988; Masteller & Flint, 1992);  
QC (Roy & Harper, 1975; Roy & Harper, 1979; Weaver, 1988);  
SC (Weaver, 1988; Morse, Hamilton, & Hoffman, 1989;  
Floyd, Morse, & Harris, 1997);  
TN (Etnier & Schuster, 1979; Etnier, Baxter, Fraley, & Parker, 1998);  
VA (Banks, 1914; Parker & Voshell, 1981; Weaver, 1988; Flint, Hoffman, & Parker, 2008;  
Zhou et al., 2011);  
VT (Wimmer, 1979);  
WV (Tarter & Floyd, 2016).

*Lepidostoma apache* Houghton, 2001, AZ;  
AZ (Houghton, 2001; Weaver, 2002; Blinn & Ruiters, 2006)  
NV (Ruiters, Baumann, & Flint, 2014).

*Lepidostoma aporna* Denning, 1949, UT;  
male genitalia (Weaver, 1988);

female genitalia (Ruiter & Blinn, 2009);  
 AZ (Ruiter, 1999; Blinn & Ruiter, 2006; Blinn & Ruiter, 2009b);  
 CO (Ruiter, 1999);  
 MT (Roemhild, 1982; Weaver, 1988; Weaver, 2002);  
 NV (Ruiter, Baumann, & Flint, 2014);  
 UT (Denning, 1954; Weaver, 1988; Weaver, 2002).

*Lepidostoma astanea* Denning, 1954, CA;  
*Lepidostoma goedeni* Denning, 1971, OR (Weaver, 1988);  
 wings, male genitalia (Weaver, 1988);  
 CA (Denning, 1954; Weaver, 1988; Weaver, 2002; Resh & Mendez, 2022);  
 OR (Denning, 1971; Anderson, 1976; Weaver, 1988; Weaver, 2002).

*Lepidostoma bakeri* Flint, 1965, AZ;  
 male and female genitalia (Weaver, 1988);  
 AZ to Guatemala (Flint & Bueno-Soria, 1977);  
 AZ (Flint, 1965; Flint & Bueno-Soria, 1977; Weaver, 1988; Weaver, 2002; Blinn & Ruiter, 2006);  
 CO (Weaver, 1988);  
 Guatemala (Weaver, 1988);  
 Mexico (Flint, 1967; Weaver, 1988).

*Lepidostoma baxea* Denning, 1958, CA;  
 male and female genitalia (Weaver, 1988);  
 CA (Denning, 1958; Weaver, 1988; Weaver, 2002; Resh & Mendez, 2022).

*Lepidostoma bryanti* (Banks, 1908), Alepomyia, NF;  
*Lepidostoma wisconsinensis* Vorhies, 1909, WI (Ross, 1938);  
 male & female genitalia (Leonard & Leonard, 1949; Weaver, 1988);  
 adult meso- and metatibia, male genitalia  
 (Marshall & Larson, 1982);  
 male genitalia (Houghton, 2012);  
 eastern Nearctic (Weaver, 2002);  
 CT (Britton, 1938);  
 GA (Weaver, 1988);  
 MA (Neves, 1979; Weaver, 1988);  
 MB (Zhou et al., 2011);  
 ME (Blickle & Morse, 1966; Weaver, 1988; Huryn & Harris, 2000);  
 MI (Leonard & Leonard, 1949; Ellis, 1962; Weaver, 1988; Houghton, Brandin, & Brakel, 2011;  
 Wright, Pytel, & Houghton, 2013; Brakel, Wassink, & Houghton, 2015;  
 Houghton, 2015; Houghton, 2016;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton & Lardner, 2020; Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Weaver, 1988; MacLean, 1995; Monson, 1997;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Zhou et al., 2011; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NB (Zhou et al., 2011);  
 NC (Weaver, 1988; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NF (Banks, 1908; Ross, 1938; Marshall & Larson, 1982; Weaver, 1988);  
 NH (Morse & Blickle, 1953; Weaver, 1988);  
 NS (Banks, 1930; Weaver, 1988);  
 NY (Sibley, 1926; Betten, 1934; Ross, 1946; Weaver, 1988;  
 Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 ON (Singh, Smith, & Harrison, 1984a; Weaver, 1988);  
 PA (Ross, 1946; Weaver, 1988; Masteller & Flint, 1992);  
 QC (Roy & Harper, 1979; Weaver, 1988);  
 RI (Weaver, 1988; Hunt, 2017);  
 SC (Floyd, Morse, & Harris, 1997);  
 TN (Weaver, 1988; Etnier, Baxter, Fraley, & Parker, 1998);



- VA (Parker & Voshell, 1981; Weaver, 1988; Flint, Hoffman, & Parker, 2008);  
 WI (Vorhies, 1909; Ross, 1946; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973;  
 Hilsenhoff, 1975; Karl & Hilsenhoff, 1979; Steven & Hilsenhoff, 1984;  
 Weaver, 1988; Hilsenhoff, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Lepidostoma cantha* Ross, 1941, CA;  
 forewing, male and female genitalia (Weaver, 1988);  
 CA (Ross, 1941; McElravy & Resh, 1987; Weaver, 1988; Weaver, 2002; Resh & Mendez, 2022).
- Lepidostoma carolina* (Banks, 1911), Notiopsyche, NC;  
 male and female genitalia (Weaver, 1988);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 NC (Banks, 1911; Weaver, 1988; Weaver, 2002;  
 Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 SC (Denning, 1949; Morse, Chapin, Herlong, & Harvey, 1980;  
 Weaver, 1988; Weaver, 2002).
- Lepidostoma carrolli* Flint, 1958, NJ;  
 male & female genitalia (Flint & Wiggins, 1961);  
 male genitalia (Weaver, 1988);  
 female genitalia (Flint & Wiggins, 1961);  
 photograph of male (Denson, Rasmussen, & Harris, 2016);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 eastern Nearctic (Weaver, 2002);  
 AR (Moulton & Stewart, 1996; Etnier, 2010);  
 CT (Nelson, 1987; Nelson & Downs, 1995; Moulton & Stewart, 1996);  
 FL (Denson, Rasmussen, & Harris, 2016);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MD (Weaver, 1988; Moulton & Stewart, 1996);  
 ME (Flint & Wiggins, 1961; Blickle & Morse, 1966; Weaver, 1988; Moulton & Stewart, 1996);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Moulton & Stewart, 1996);  
 NJ (Flint, 1958; Weaver, 1988; Moulton & Stewart, 1996);  
 OH (Huryn & Foote, 1983; Weaver, 1988; Moulton & Stewart, 1996; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 PA (Masteller & Flint, 1979; Weaver, 1988;  
 Masteller & Flint, 1992; Moulton & Stewart, 1996);  
 SC (Morse, Chapin, Herlong, & Harvey, 1980; Weaver, 1988; Moulton & Stewart, 1996);  
 TN (Etnier, 1973; Etnier & Schuster, 1979; Weaver, 1988;  
 Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Flint, Hoffman, & Parker, 2008; Zhou et al., 2011).
- Lepidostoma cascaden* (Milne, 1936), Jenortha, BC;  
*Lepidostoma pleca* Ross, 1938, WA (Ross, 1944);  
*Lepidostoma mira* Denning, 1954, CA (Weaver, 1988);  
 male genitalia (Ross, 1938);  
 female genitalia (Ross, 1946);  
 male antenna, forewing, phallus (Schmid, 1980, as "*Lepidostoma cascadis*");  
 mesoscutellum, male wings, male and female genitalia  
 (Weaver, 1988);  
 AK, AB [CA to YT](Denning, 1954);  
 western Nearctic (Weaver, 2002);  
 AB (Denning, 1954; Weaver, 1988);  
 AK (Denning, 1954; Weaver, 1988);  
 BC (Milne, 1936; Schmid & Guppy, 1952; Ross & Spencer, 1952;  
 Nimmo & Scudder, 1978; Weaver, 1988);

- CA (Denning, 1954; Ross, 1956; Leland, Fend, Carter, & Mahood, 1986; Weaver, 1988; Erman, 1989; Erman & Erman, 1990; Myers & Resh, 1999; Resh & Mendez, 2022);
- CO (Ross, 1946; Herrmann, Ruiters, & Unzicker, 1986; Weaver, 1988; DeWalt, Stewart, Moulton, & Kennedy, 1994; Ruiters, 1996; Zuellig, Kondratieff, Ruiters, & Thorp, 2006; Zuellig, Heinold, Kondratieff, & Ruiters, 2012);
- ID (Ross, 1946; Smith, 1969; Weaver, 1988);
- MT (Ross, 1946; Newell & Potter, 1973; Roemhild, 1982; Weaver, 1988; Jones & Resh, 1988);
- NM (Ruiters, 1999; Vieira, Kondratieff, Ruiters, & Durfee, 2009);
- NV (Weaver, 1988; Ruiters, Baumann, & Flint, 2014);
- OR (Anderson, 1976; Anderson, 1980; Anderson, Cooper, & Denning, 1982; Anderson, Wisseman, & Courtney, 1984; Weaver, 1988);
- UT (Baumann & Unzicker, 1981; Weaver, 1988);
- WA (Ross, 1938; Ross, 1944; Anderson & Wisseman, 1987; Weaver, 1988; Ruiters, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiters, 2013);
- WY (Denning, 1949; Weaver, 1988; Ruiters & Lavigne, 1985; Ruiters, 1996);
- YT (Denning, 1954; Nimmo & Wickstrom, 1984; Weaver, 1988; Wiggins & Parker, 1997).
- Lepidostoma castalianum* Weaver and Myers, 1998, CA; male & female genitalia (Weaver & Myers, 1998); CA (Weaver & Myers, 1998; Myers & Resh, 1999; Weaver, 2002; Resh & Mendez, 2022).
- Lepidostoma cinereum* (Banks, 1899), Silo, CA; *Lepidostoma strophis* Ross, 1938, MI (Weaver, 1988); male genitalia (Ross, 1938; Ross, 1946; Marshall & Larson, 1982; Houghton, 2012); scape, male and female genitalia (Weaver, 1988); Nearctic (Weaver, 2002); AB (Weaver, 1988); AK (Weaver, 1988); BC (Ross, 1938; Schmid & Guppy 1952; Ross & Spencer, 1952; Nimmo & Scudder, 1978; Weaver, 1988); CA (Banks, 1899; Ross, 1946; Denning, 1956; McElravy & Resh, 1987; Weaver, 1988; Resh & Mendez, 2022); CO (Ross, 1946; Herrmann, Ruiters, & Unzicker, 1986; Weaver, 1988; Zuellig, Heinold, Kondratieff, & Ruiters, 2012); ID (Denning, 1954; Newell & Minshall, 1977; Weaver, 1988); MB (Resh, Rosenberg, & Wiens, 1983); ME (Weaver, 1988); MI (Ross, 1938; Leonard & Leonard, 1949; Ellis, 1962; Weaver, 1988; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiters, Bright, Hudson, & Armitage, 2018; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022); MN (Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022); MT (Ross, 1946; Newell, 1970; Newell & Potter, 1973; Roemhild, 1982; Weaver, 1988); NF (Marshall & Larson, 1982; Weaver, 1988); NT (Nimmo, 1986; Weaver, 1988); ON (Blades & Marshall, 1994); OR (Ross, 1946; Anderson, 1976; Anderson & Hansen, 1987; Weaver, 1988; Anderson & Anderson, 1995); QC (Roy & Harper, 1979; Weaver, 1988; Harper, 1989); SK (Weaver, 1988); UT (Ross, 1946; Baumann & Unzicker, 1981; Weaver, 1988);

- WA (Weaver, 1988; Newell, Ruiters, & Strenge, 2001; Zack, Ruiters, Strenge, & Landolt, 2006; Blinn & Ruiters, 2013; Claeson, Crisafulli, & Gerth, 2018);
- WY (Weaver, 1988);
- YT (Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997).
- Lepidostoma compressum* Etnier and Way, 1973, TN;  
 male genitalia (Weaver, 1988);  
 AL (Harris, Kondratieff, & Stark, 1996);  
 TN (Etnier & Way, 1973; Weaver, 1988; Morse et al, 1997; Etnier, Baxter, Fraley, & Parker, 1998; Weaver, 2002).
- Lepidostoma costale* (Banks, 1914), Olemira, NY;  
 male and female genitalia (Weaver, 1988);  
 male genitalia (Houghton, 2012);  
 eastern Nearctic (Weaver, 2002);  
 CT (Weaver, 1988; Nelson & Downs, 1995);  
 DE (Lake, 1984; Weaver, 1988);  
 MA (Neves, 1979; Weaver, 1988);  
 ME (Ross, 1946; Blickle & Morse, 1966; Mingo & Gibbs, 1980; Bilger, 1986; Weaver, 1988; Huryn & Harris, 2000);  
 MI (Ross, 1946; Ellis, 1962; Petersen & Cummins, 1974; Weaver, 1988; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiters, Bright, Hudson, & Armitage, 2018; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Weaver, 1988; Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NH (Morse & Blickle, 1953; Weaver, 1988);  
 NY (Banks, 1914; Weaver, 1988; Myers, Kondratieff, Mihuc, & Ruiters, 2011);  
 OH (Garono & MacLean, 1988; Usis & Foote, 1989; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Ross, 1946; Weaver, 1988; Harper, 1989);  
 PA (Masteller & Flint, 1979; Masteller & Flint, 1984; Swegman, Walker, & Sykora, 1981; Weaver, 1988; Masteller & Flint, 1992);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979; Weaver, 1988; Harper, 1989);  
 VA (Weaver, 1988; not in VA according to Flint, Hoffman, & Parker, 2008);  
 VT (Wimmer, 1979);  
 WI (Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Karl & Hilsenhoff, 1979; Steven & Hilsenhoff, 1984; Weaver, 1988; Hilsenhoff, 1995; Hilsenhoff, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Lepidostoma deceptivum* (Banks, 1907), Thremma, NM;  
 female genitalia (Weaver, 1988);  
 NM (Banks, 1907; Weaver, 1988; Weaver, 2002).
- Lepidostoma ermanae* Weaver, 1988, CA;  
 CA (Weaver, 1988; Erman & Erman, 1990; Erman, 1998; Weaver, 2002; Resh & Mendez, 2022).
- Lepidostoma errigena* Denning, 1954, CA;  
 male and female genitalia (Weaver, 1988);  
 CA (Denning, 1954; Weaver, 1988; Weaver, 2002; Resh & Mendez, 2022).
- Lepidostoma etnieri* Weaver, 1988, TN;  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 TN (Weaver, 1988; Morse et al, 1997; Etnier, Baxter, Fraley, & Parker, 1998; Weaver, 2002).
- Lepidostoma excavatum* Flint and Wiggins, 1961, TN;  
 male and female genitalia (Weaver, 1988);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 NC (Flint & Wiggins, 1961; Weaver, 1988; Weaver, 2002; Lenat, Ruiters, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);  
 TN (Flint & Wiggins, 1961; Weaver, 1988; Etnier, Baxter, Fraley, & Parker, 1998);

- Weaver, 2002);  
 VA (Parker & Voshell, 1981; not in VA according to Flint, Hoffman, & Parker, 2008;  
 Zhou et al., 2011).
- Lepidostoma flinti* Wallace and Sherberger, 1972, NC;  
 male and female genitalia (Weaver, 1988);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 NC (Wallace & Sherberger, 1972; Weaver, 1988;  
 Morse, Hamilton, & Hoffman, 1989; Morse et al, 1997; Weaver, 2002;  
 Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 SC (Weaver, 1988; Floyd, Morse, & Harris, 1997;  
 Morse et al, 1997; Weaver, 2002).
- Lepidostoma frosti* (Milne, 1936), Atomyia, NY;  
 female genitalia (Flint & Wiggins, 1961);  
 case, larval head, male and female genitalia (Weaver, 1988);  
 eastern Nearctic (Weaver, 2002);  
 CT (Nelson & Downs, 1995);  
 MA (Denning, 1949; Neves, 1979; Weaver, 1988);  
 ME (Procter, 1946; Denning, 1949; Blickle & Morse, 1966;  
 Weaver, 1988);  
 NC (Flint & Wiggins, 1961; Weaver, 1988;  
 Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);  
 NH (Milne, 1936; Morse & Blickle, 1953; Weaver, 1988);  
 NS (Denning, 1954; Weaver, 1988);  
 NY (Milne, 1936; Weaver, 1988; Myers, Kondratieff, Mihuc, & Ruitter, 2011);  
 PA (Adler, Light, & Cameron, 1985; Weaver, 1988;  
 Masteller & Flint, 1992);  
 QC (Ross, 1946; Roy & Harper, 1975; Roy & Harper, 1979;  
 Weaver, 1988);  
 RI (Weaver, 1988; Hunt, 2017);  
 TN (Flint & Wiggins, 1961; Etnier & Schuster, 1979; Weaver, 1988;  
 Etnier, Baxter, Fraley, & Parker, 1998);  
 VT (Wimmer, 1979).
- Lepidostoma glenni* Wallace and Sherberger, 1972, GA;  
 male genitalia (Weaver, 1988);  
 GA (Wallace & Sherberger, 1972; Weaver, 1988;  
 Morse et al, 1997; Weaver, 2002).
- Lepidostoma griseum* (Banks, 1911), Phanopsyche, NY;  
 male & female genitalia (Flint & Wiggins, 1961);  
 mesonotum, head, wings, male and female genitalia (Weaver, 1988);  
 male genitalia (Houghton, 2012);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 eastern Nearctic (Weaver, 2002);  
 AL (Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991;  
 Moulton & Stewart, 1996);  
 AR (Moulton & Stewart, 1996; Bowles, Cheri, Usrey, & Williams, 2020);  
 CO (Herrmann, Ruitter, & Unzicker, 1986; not CO, Weaver, 1988, and  
 Ruitter, 1990);  
 CT (Nelson, 1987; Nelson & Downs, 1995; Moulton & Stewart, 1996);  
 DE (Lake, 1984; Weaver, 1988; Moulton & Stewart, 1996);  
 FL (Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004);  
 GA (Flint & Wiggins, 1961; Weaver, 1988; Moulton & Stewart, 1996);  
 IL (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Weaver, 1988; Moulton & Stewart, 1996;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

- MA (Flint & Wiggins, 1961; Weaver, 1988; Moulton & Stewart, 1996);  
 ME (Flint & Wiggins, 1961; Blickle & Morse, 1966; Weaver, 1988; Moulton & Stewart, 1996);  
 MI (Ross, 1946; Leonard & Leonard, 1949; Ellis, 1962; Weaver, 1988; Moulton & Stewart, 1996;  
 Houghton, Brandin, & Brakel, 2011; Houghton, 2015;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Carpenter, 1933; Armitage & Tennesen, 1984;  
 Huryn & Wallace, 1987; Huryn & Wallace, 1988; Weaver, 1988;  
 Morse, Hamilton, & Hoffman, 1989; Moulton & Stewart, 1996;  
 Floyd, Morse, & Harris, 1997; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Morse & Blickle, 1953; Weaver, 1988; Moulton & Stewart, 1996);  
 NJ (Carpenter, 1933; Weaver, 1988; Moulton & Stewart, 1996);  
 NS (Weaver, 1988; Moulton & Stewart, 1996);  
 NY (Banks, 1911; Weaver, 1988; Moulton & Stewart, 1996;  
 Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Huryn & Foote, 1981; Huryn & Foote, 1983; MacLean & MacLean, 1984; Weaver, 1988;  
 Garono & MacLean, 1988; Moulton & Stewart, 1996; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Sprules, 1947; Singh, Smith, & Harrison, 1984a; Weaver, 1988; Moulton & Stewart, 1996);  
 PA (Ross, 1946; Masteller & Flint, 1980; Masteller & Flint, 1984;  
 Swegman, Walker, & Sykora, 1981; Weaver, 1988; Masteller & Flint, 1992;  
 Moulton & Stewart, 1996);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979; Weaver, 1988;  
 Moulton & Stewart, 1996; Zhou et al., 2011);  
 SC (Weaver, 1988; Morse, Hamilton, & Hoffman, 1989;  
 Moulton & Stewart, 1996; Floyd, Morse, & Harris, 1997);  
 TN (Carpenter, 1933; Etnier & Schuster, 1979; Weaver, 1988;  
 Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Flint & Wiggins, 1961; Weaver, 1988; Moulton & Stewart, 1996;  
 Flint, Hoffman, & Parker, 2008; Zhou et al., 2011);  
 VT (Wimmer, 1979; Moulton & Stewart, 1996);  
 WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
 Karl & Hilsenhoff, 1979; Steven & Hilsenhoff, 1984; Weaver, 1988; Hilsenhoff, 1995;  
 Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Tarter & Hill, 1979; Weaver, 1988; Tarter, 1990; Griffith & Perry, 1992;  
 Moulton & Stewart, 1996; Zhou et al., 2011; Tarter & Floyd, 2016).
- Lepidostoma hoodi* Ross, 1948, OR;  
 head, wings, male and female genitalia (Weaver, 1988);  
 northwestern Nearctic (Weaver, 2002);  
 BC (Schmid & Guppy, 1952; Ross & Spencer, 1952; Weaver, 1988);  
 OR (Ross, 1948; Anderson & Wold, 1972; Anderson, 1976; Anderson, Cooper, & Denning, 1982;  
 Anderson, Wisseman, & Courtney, 1984; Weaver, 1988; Anderson, 1997);  
 WA (Denning, 1954; Anderson & Wisseman, 1987; Weaver, 1988;  
 Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013).
- Lepidostoma jewetti* Ross, 1946, WA;  
 wings, male and female genitalia (Weaver, 1988);  
 western Nearctic (Weaver, 2002);  
 BC (Denning, 1949; Ross & Spencer, 1952; Schmid, & Guppy, 1952;  
 Nimmo & Scudder, 1978; Weaver, 1988);  
 CA (Denning, 1949; Weaver, 1988; Resh & Mendez, 2022);  
 OR (Ross & Spencer, 1952; Anderson, 1976; Weaver, 1988; Anderson, 1997);

- WA (Ross, 1946; Anderson & Wisseman, 1987; Weaver, 1988; Blinn & Ruiters, 2013).
- Lepidostoma knulli* Ross, 1946, AZ;  
*Lepidostoma leechi* Denning, 1962, Mexico (Flint & Bueno-Soria, 1977);  
 case, male and female genitalia (Weaver, 1988);  
 AZ (Ross, 1946; Flint, 1977; Weaver, 1988; Moulton, Stewart, & Young, 1994; Houghton, 2001;  
 Weaver, 2002; Blinn & Ruiters, 2006; Blinn & Ruiters, 2009b);  
 MT (Newell, 1970);  
 NM (Waltz & McCafferty, 1983; Weaver, 1988; Weaver, 2002);  
 TX (Moulton & Stewart, 1997);  
 Mexico (Denning, 1946; Flint, 1967; Flint & Bueno-Soria, 1977; Weaver, 1988).
- Lepidostoma lacinatum* Flint, 1967, Mexico;  
 male genitalia (Denning, 1973);  
 wings, male genitalia (Weaver, 1988);  
 AZ (Denning, 1973; Weaver, 1988; Weaver, 2002; Blinn & Ruiters, 2006);  
 Mexico (Flint, 1967; Flint & Bueno-Soria, 1977; Weaver, 1988).
- Lepidostoma latipenne* (Banks, 1905), Notiopsyche, NC;  
 female genitalia (Flint & Wiggins, 1961);  
 male and female head and mesonota, wings, male and female  
 genitalia (Weaver, 1988);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 eastern Nearctic (Weaver, 2002);  
 AL (Harris, Lago, & O'Neil, 1984; Harris, 1987; Weaver, 1988; Harris & Lago, 1990;  
 Harris, O'Neil, & Lago, 1991; Hicks & Haynes, 2000a);  
 DE (Lake, 1984; Weaver, 1988);  
 FL (Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004);  
 GA (Ross, 1946; Weaver, 1988);  
 MA (Neves, 1979);  
 NC (Banks, 1905; Armitage & Tennessen, 1984; Weaver, 1988;  
 Morse, Hamilton, & Hoffman, 1989; Floyd, Morse, & Harris, 1997;  
 Lenat, Ruiters, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Morse & Blickle, 1953; Weaver, 1988);  
 NS (Ross, 1946; Weaver, 1988);  
 NY (Myers, Kondratieff, Mihuc, & Ruiters, 2011);  
 PA (Weaver, 1988; Masteller & Flint, 1992);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979);  
 SC (Flint & Wiggins, 1961; Morse, Chapin, Herlong, & Harvey, 1980;  
 Weaver, 1988; Morse, Hamilton, & Hoffman, 1989;  
 Floyd & Morse, 1993; Floyd, Morse, & Harris, 1997; Zhou et al., 2011);  
 TN (Carpenter, 1933; Etnier & Schuster, 1979; Weaver, 1988;  
 Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Parker & Voshell, 1981; Weaver, 1988; Flint, Hoffman, & Parker, 2008);  
 VT (Wimmer, 1979).
- Lepidostoma lescheni* Bowles, Mathis, & Weaver, 1994, AR;  
 female head, genitalia (Moulton, Robison, & Crump, 1999);  
 AR (Bowles & Mathis, 1989 [as *Lepidostoma* species B]; Bowles, Mathis, & Weaver, 1994;  
 Moulton & Stewart, 1996; Moulton, Robison, & Crump, 1999; Weaver, 2002)  
 MO (Weaver, 2002;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Weaver, 2002).
- Lepidostoma liba* Ross, 1941, IL;  
 male & female genitalia (Flint & Wiggins, 1961);  
 case, male and female genitalia (Weaver, 1988);  
 male genitalia (Houghton, 2012);  
 AR (Bowles & Mathis, 1989; Moulton & Stewart, 1996;  
 Bowles, 2020; Bowles, Cheri, Usrey, & Williams, 2020);

- IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1941; Weaver, 1988; Moulton & Stewart, 1996; Weaver, 2002  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OH (Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 TN (Edwards, 1966, uncertain record according to  
     Etnier & Schuster, 1979, Weaver, 1988, and Etnier, Baxter, Fraley, & Parker, 1998);  
 WI (Steven & Hilsenhoff, 1984; Weaver, 1988; Hilsenhoff, 1995; Moulton & Stewart, 1996;  
     Weaver, 2002;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Lepidostoma licola* Denning, 1975, CA;  
 head, wings, male genitalia (Weaver, 1988);  
 CA (Denning, 1975; Weaver, 1988; Weaver, 2002; Resh & Mendez, 2022).
- Lepidostoma lobatum* Wallace and Sherberger, 1972, NC;  
 male genitalia (Weaver, 1988);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 GA (Wallace & Sherberger, 1972; Weaver, 1988; Morse et al, 1997; Weaver, 2002);  
 NC (Wallace & Sherberger, 1972; Weaver, 1988; Morse et al, 1997;  
     Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 TN (Etnier, Baxter, Fraley, & Parker, 1998).
- Lepidostoma lotor* Ross, 1946, CA;  
 male genitalia (Weaver, 1988);  
 CA (Ross, 1946; Weaver, 1988; Weaver, 2002; Resh & Mendez, 2022).
- Lepidostoma lydia* Ross, 1939, VA;  
 male and female genitalia (Weaver, 1988);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 eastern Nearctic (Weaver, 2002);  
 GA (Weaver, 1988);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Neves, 1979; Weaver, 1988);  
 NC (Armitage & Tennessen, 1984; Huryn & Wallace, 1987;  
     Huryn & Wallace, 1988; Weaver, 1988; Morse, Hamilton, & Hoffman, 1989;  
     Floyd, Morse, & Harris, 1997; DeWalt, Jacobus, & McCafferty, 2007;  
     Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);  
 NF (Weaver, 1988);  
 NH (Ross, 1946; Weaver, 1988);  
 NS (Weaver, 1988; Zhou et al., 2011);  
 NY (Ross, 1946; Weaver, 1988; Zhou et al., 2011; Myers, Kondratieff, Mihuc, & Ruitter, 2011);  
 OH (Ruitter, 2000; Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 PA (Weaver, 1988; Masteller & Flint, 1992);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979; Weaver, 1988);  
 SC (Weaver, 1988; Morse, Hamilton, & Hoffman, 1989; Floyd, Morse, & Harris, 1997);  
 TN (Etnier & Schuster, 1979; Weaver, 1988; Etnier, Baxter, Fraley, & Parker, 1998;  
     DeWalt & Heinold, 2005);  
 VA (Ross, 1939; Parker & Voshell, 1981; Weaver, 1988; Flint, Hoffman, & Parker, 2008;  
     Zhou et al., 2011);  
 VT (Wimmer, 1979);

- WV (Tarter & Floyd, 2016).
- Lepidostoma mexicanum* (Banks, 1901), Olemira, Mexico;  
*Atomyoides bispinosus* Ulmer, 1911, Costa Rica (Flint & Bueno-Soria, 1977);  
*Lepidostoma alexanderi* Denning, 1962, AZ (Flint, 1967);  
 male genitalia (Denning, 1962);  
 head, male and female genitalia (Weaver, 1988);  
 AZ to Costa Rica, Mexico (Flint, 1967);  
 AZ (Weaver, 1988; Weaver, 2002; Blinn & Ruitter, 2006);  
 CO (Weaver, 1988);  
 Costa Rica (Ulmer, 1911);  
 Mexico (Banks, 1901);  
 Mexico, Guatemala, Costa Rica, Panama (Bueno-Soria & Flint, 1978;  
 Weaver, 1988).
- Lepidostoma mitchelli* Flint and Wiggins, 1961, NC;  
 male and female genitalia (Weaver, 1988);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 NC (Flint & Wiggins, 1961; Weaver, 1988; Morse et al, 1997; Weaver, 2002;  
 Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 TN (Weaver, 1988; Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Parker & Voshell, 1981; Flint, Hoffman, & Parker, 2008).
- Lepidostoma modestum* (Banks, 1905), Atomyia, NC;  
 male genitalia (Etnier & Way, 1973);  
 head, wings, male and female genitalia (Weaver, 1988);  
 eastern Nearctic (Weaver, 2002);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 NC (Banks, 1905; Weaver, 1988; Morse, Hamilton, & Hoffman, 1989;  
 Floyd, Morse, & Harris, 1997; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010;  
 Zhou et al., 2011);  
 NH (Morse & Blickle, 1953; Weaver, 1988);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979; Weaver, 1988; Harper, 1989);  
 SC (Morse, Hamilton, & Hoffman, 1989; Floyd, Morse, & Harris, 1997);  
 TN (Döhler, 1915; Weaver, 1988);  
 VA (Weaver, 1988; Flint, Hoffman, & Parker, 2008; Zhou et al., 2011).
- Lepidostoma morsei* Weaver, 1988, MS;  
 FL (Weaver, 1988; Pescador, Rasmussen, & Harris, 1995, 2004; Weaver, 2002);  
 MS (Weaver, 1988);  
 TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997).
- Lepidostoma ojanum* Weaver and Myers, 1998, CA;  
 male & female genitalia (Weaver & Myers, 1998);  
 CA (Weaver & Myers, 1998; Myers & Resh, 1999; Weaver, 2002; Resh & Mendez, 2022)  
 NV (Weaver, 2002; Ruitter, Baumann, & Flint, 2014).
- Lepidostoma ontario* Ross, 1941, ON;  
 case, larval head, male and female genitalia (Weaver, 1988);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 eastern Nearctic (Weaver, 2002);  
 AL (Harris, Kondratieff, & Stark, 1996);  
 CT (Nelson & Downs, 1995);  
 MA (Neves, 1979; Weaver, 1988; Flint & Harp, 1990);  
 ME (Denning, 1949; Blickle & Morse, 1966; Weaver, 1988; Flint & Harp, 1990);  
 NB (Zhou et al., 2011);  
 NC (Wray, 1950; Weaver, 1988; Flint & Harp, 1990; DeWalt, Jacobus, & McCafferty, 2007;  
 Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 NF (Weaver, 1988; Flint & Harp, 1990);  
 NH (Ross, 1941; Weaver, 1988; Flint & Harp, 1990);  
 NS (Denning, 1954; Weaver, 1988; Flint & Harp, 1990);



- NY (Zhou et al., 2011; Myers, Kondratieff, Mihuc, & Ruiters, 2011);  
 ON (Ross, 1941; Weaver, 1988; Flint & Harp, 1990);  
 PA (Adler, Light, & Cameron, 1985; Masteller & Flint, 1992);  
 QC (Robert, 1958; Roy & Harper, 1975; Roy & Harper, 1979;  
     Weaver, 1988; Flint & Harp, 1990);  
 SC (Weaver, 1988; Flint & Harp, 1990; Floyd & Morse, 1993);  
 TN (Etnier & Schuster, 1979; Weaver, 1988; Flint & Harp, 1990;  
     Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005);  
 VA (Weaver, 1988; Flint & Harp, 1990; Flint, Hoffman, & Parker, 2008);  
 VT (Wimmer, 1979; Zhou et al., 2011).
- Lepidostoma ormeum* Ross, 1946, UT;  
*Lepidostoma querla* Denning, 1949, AZ (Weaver, 1988);  
*Lepidostoma moneka* Denning, 1968, AZ (Weaver, 1988);  
 male and female genitalia (Weaver, 1988);  
 southwestern Nearctic (Weaver, 2002);  
 AZ (Weaver, 1988; Moulton, Stewart, & Young, 1994; Ruiters, 1996; Houghton, 2001;  
     Blinn & Ruiters, 2006);  
 CO (Denning, 1948; Canton & Ward, 1981; Herrmann, Ruiters, & Unzicker, 1986; Weaver, 1988;  
     Ruiters, 1996; Zuellig, Heinold, Kondratieff, & Ruiters, 2012);  
 NM (Weaver, 1988);  
 NV (Ruiters, Baumann, & Flint, 2014);  
 UT (Ross, 1946; Baumann & Unzicker, 1981; Weaver, 1988);  
 WY (Ruiters & Lavigne, 1985; Weaver, 1988).
- Lepidostoma ozarkense* Flint & Harp, 1990, AR;  
 eastern Nearctic (Weaver, 2002);  
 AR (Flint & Harp, 1990; Moulton & Stewart, 1996; Etnier, 2010);  
 OK (Flint & Harp, 1990; Bowles & Mathis, 1992; Moulton & Stewart, 1996).
- Lepidostoma pictile* (Banks, 1899), Mormonia, NH;  
*Lepidostoma swannanoa* Ross, 1939, NC (Weaver, 1988);  
 male genitalia (Ross, 1939; Marshall & Larson, 1982);  
 female genitalia (Ross, 1946, as *L. ontario*);  
 male and female genitalia (Weaver, 1988);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 northeastern North America (Wiggins, 1961);  
 eastern Nearctic (Weaver, 2002);  
 CT (Nelson & Downs, 1995);  
 KY (Floyd & Schuster, 1990; Etnier, Bauer, & Zirkle, 2006;  
     Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Denning, 1954; Neves, 1979; Weaver, 1988);  
 ME (Mingo & Gibbs, 1980; Bilger, 1986; Weaver, 1988; Huryn & Harris, 2000);  
 NB (Zhou et al., 2011);  
 NC (Ross, 1939; DeWalt, Jacobus, & McCafferty, 2007;  
     Lenat, Ruiters, Parker, Robinson, Beaty, & Flint, 2010);  
 NF (Wiggins, 1961; Marshall & Larson, 1982; Weaver, 1988);  
 NH (Banks, 1899; Ross, 1946; Weaver, 1988);  
 NJ (Zhou et al., 2011);  
 NS (Weaver, 1988);  
 NY (Ross, 1946; Weaver, 1988; Myers, Kondratieff, Mihuc, & Ruiters, 2011);  
 PA (Masteller & Flint, 1992);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979;  
     Williams & Williams, 1979; Weaver, 1988; Harper, 1989);  
 TN (Etnier & Schuster, 1979; Weaver, 1988; Etnier, Baxter, Fraley, & Parker, 1998;  
     DeWalt & Heinold, 2005; Etnier, Bauer, & Zirkle, 2006);  
 VA (Parker & Voshell, 1981; Weaver, 1988; Flint, Hoffman, & Parker, 2008);

- WV (Weaver, 1988; Tarter, 1990; Tarter & Floyd, 2016).
- Lepidostoma pluviale* (Milne, 1936), Olemira, CO;  
*Lepidostoma rhino* Ross, 1946, Mexico (Weaver, 1988);  
*Lepidostoma veleda* Denning, 1948, WY (Weaver, 1988);  
 male genitalia (Ross, 1941);  
 larva, case (Ross, 1946);  
 male wings (Schmid, 1980);  
 case, head, wings, male and female genitalia (Weaver, 1988);  
 western Nearctic (Weaver, 2002);  
 AB (Weaver, 1988);  
 BC (Ross & Spencer, 1952; Schmid & Guppy, 1952 [misidentification of *L. rhino*], not in BC, Flint & Bueno-Soria, 1977; Nimmo & Scudder, 1978; Weaver, 1988);  
 CA (Weaver, 1988; Resh & Mendez, 2022);  
 CO (Milne, 1936; Ross, 1946; Denning, 1948; Flint & Herrmann, 1976; Short, Canton, & Ward, 1980; Ward, 1981; Herrmann, Ruitter, & Unzicker, 1986; Ward, 1986; Weaver, 1988; DeWalt, Stewart, Moulton, & Kennedy, 1994; Ruitter, 1996);  
 CO (Ruse & Herrmann, 2000; Zuellig, Heinold, Kondratieff, & Ruitter, 2012);  
 ID (Newell & Minshall, 1977; Weaver, 1988);  
 MB (Cobb, Flannagan, & Friesen, 1984);  
 MT (Ross, 1946; Newell, 1970; Newell & Potter, 1973; Roemhild, 1982; Weaver, 1988);  
 NM (Weaver, 1988; Vieira, Kondratieff, Ruitter, & Durfee, 2009);  
 NV (Ruitter, Baumann, & Flint, 2014);  
 OR (Anderson, 1976; Weaver, 1988);  
 SD (Weaver, 1988; Ruitter, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 UT (Knowlton & Harmston, 1939; Baumann & Unzicker, 1981; Weaver, 1988);  
 WY (Milne, 1936; Ross, 1946; Denning, 1948; Denning, 1949; Swegman & Ferrington, 1980; Ruitter & Lavigne, 1985; Weaver, 1988; Ruitter, 1996);  
 YT (Wiggins & Parker, 1997);  
 Mexico (Ross, 1946).
- Lepidostoma podagrum* (McLachlan, 1871), Nosopus, CA;  
 male genitalia (Kimmins & Denning, 1951);  
 head and thorax, wings, male and female genitalia (Weaver, 1988);  
 head, prothorax, wings, male genitalia (Weaver, 2002);  
 western Nearctic (Weaver, 2002);  
 AB (Weaver, 1988);  
 CA (McLachlan, 1871; Weaver, 1988; Resh & Mendez, 2022);  
 ID (Newell & Minshall, 1977; Weaver, 1988);  
 MT (Newell & Potter, 1973; Roemhild, 1982; Weaver, 1988);  
 NV (Ruitter, Baumann, & Flint, 2014);  
 OR (Anderson, 1976; Anderson, Cooper, & Denning, 1982; Weaver, 1988);  
 UT (Baumann & Unzicker, 1981; Weaver, 1988);  
 WY (Denning, 1954; Ruitter & Lavigne, 1985; Weaver, 1988).
- Lepidostoma prominens* (Banks, 1930), Arcadopsyche, NS;  
 male and female genitalia (Weaver, 1988);  
 male genitalia (Houghton, 2012);  
 eastern Nearctic (Weaver, 2002);  
 LB (Weaver, 1988);  
 MA (Denning, 1949; Weaver, 1988);  
 MB (Cobb, Flannagan, & Friesen, 1984);  
 MN (Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012);

- Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NH (Denning, 1949; Weaver, 1988);  
 NS (Banks, 1930; Weaver, 1988);  
 QC (Ross, 1946; Roy & Harper, 1975; Roy & Harper, 1979;  
 Williams & Williams, 1979; Weaver, 1988; Harper, 1989);  
 VT (Wimmer, 1979);  
 WI (Ruiter, 2000);  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Lepidostoma quercinum* Ross, 1938, OR;  
 head, male and female genitalia (Weaver, 1988);  
 northwestern Nearctic (Weaver, 2002);  
 BC (Schmid & Guppy, 1952; Nimmo & Scudder, 1978; Weaver, 1988);  
 ID (Denning, 1949; Weaver, 1988);  
 MT (Roemhild, 1982; Weaver, 1988);  
 OR (Ross, 1938; Anderson & Wold, 1972; Anderson, 1976; Anderson, 1978;  
 Anderson, 1979; Dudley & Anderson, 1982; Anderson & Hansen, 1987; Weaver, 1988);  
 WA (Denning, 1954; Weaver, 1988).
- Lepidostoma rayneri* Ross, 1941, CA;  
*Lepidostoma crypta* Denning, 1964, CA (Weaver, 1988);  
*Lepidostoma fischeri* Denning, 1968, OR (Weaver, 1988);  
 male and female genitalia (Weaver, 1988);  
 western Nearctic (Weaver, 2002);  
 BC (Ross, 1946; Ross & Spencer, 1952; Weaver, 1988);  
 CA (Ross, 1941; Denning, 1964; Leland, Fend, Carter, & Mahood, 1986;  
 McElravy & Resh, 1987; Weaver, 1988; Givens, 2014; Resh & Mendez, 2022);  
 MT (Roemhild, 1982);  
 NV (Ruiter, Baumann, & Flint, 2014);  
 OR (Denning, 1968; Ross, 1941; Anderson, 1976; Weaver, 1988);  
 WA (Ross, 1946; Weaver, 1988; Blinn & Ruiter, 2013).
- Lepidostoma recina* Denning, 1954, OR;  
*Lepidostoma calensis* Denning, 1968, CA (Weaver, 1988);  
 head, male and female genitalia (Weaver, 1988);  
 CA (Weaver, 1988; Weaver, 2002; Resh & Mendez, 2022);  
 OR (Denning, 1954; Anderson, 1976;  
 Anderson, Cooper, & Denning, 1982;  
 Wisseman & Anderson, 1984; Weaver, 1988; Weaver, 2002);  
 WA (Anderson & Wisseman, 1987; Blinn & Ruiter, 2013).
- Lepidostoma reosa* Denning, 1954, MA;  
 wings, male genitalia (Weaver, 1988);  
 eastern Nearctic (Weaver, 2002);  
 MA (Denning, 1954; Neves, 1979; Weaver, 1988);  
 ME (Weaver, 1988);  
 NB (Weaver, 1988);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 WV (Ruiter, 2000; Tarter & Floyd, 2016).
- Lepidostoma roafi* (Milne, 1936), Atomyia, CO;  
 male & female genitalia (Ross, 1946);  
 wings, male and female genitalia (Weaver, 1988);  
 CA-OR (Dudley & Anderson, 1982);  
 western Nearctic (Weaver, 2002);  
 AB (Denning, 1954; Weaver, 1988);  
 AK (Denning, 1954; Ellis, 1978; Vineyard, 1982; Weaver, 1988);  
 BC (Milne, 1936; Schmid, & Guppy, 1952; Ross & Spencer, 1952); Ross, 1946; Weaver, 1988);  
 CA (Ross, 1946; Weaver, 1988; Erman, 1987; Erman, 1989; Erman & Erman, 1990;  
 Myers & Resh, 1999; Resh & Mendez, 2022);

CO (Milne, 1936; Ross, 1946; Herrmann, Ruiter, & Unzicker, 1986; Weaver, 1988; Ruiter, 1996; Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 ID (Weaver, 1988);  
 MT (Ross, 1946; Newell, 1970; Newell & Potter, 1973; Roemhild, 1982; Weaver, 1988);  
 NM (Ross, 1941; Weaver, 1988);  
 NV (Weaver, 1988; Ruiter, Baumann, & Flint, 2014);  
 OR (Anderson & Wold, 1972; Anderson, 1976; Dudley & Anderson, 1982; Anderson, Cooper, & Denning, 1982; Anderson, Wisseman, & Courtney, 1984; Anderson & Hansen, 1987; Weaver, 1988; Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 SD (Denning, 1949; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 UT (Baumann & Unzicker, 1981; Weaver, 1988);  
 WA (Ross, 1946; Weaver, 1988; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013);  
 WY (Ross, 1946; Ruiter & Lavigne, 1985; Weaver, 1988);  
 YT (Denning 1954; Nimmo & Wickstrom, 1984; Weaver, 1988; Wiggins & Parker, 1997).

*Lepidostoma sackeni* (Banks, 1936), Mormomyia, NH;  
 male & female genitalia (Flint & Wiggins, 1961; Weaver, 1988);  
 male genitalia (Houghton, 2012);  
 eastern Nearctic (Weaver, 2002);  
 CT (Nelson & Downs, 1995);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Flint & Wiggins, 1961; Weaver, 1988; Zhou et al., 2011);  
 ME (Procter, 1946; Blickle & Morse, 1966; Weaver, 1988; Huryn & Harris, 2000);  
 MI (Leonard & Leonard, 1949; Ellis, 1962; Weaver, 1988; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018; Houghton, 2022; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (MacLean, 1995; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ND (Harris, Lago, & Carlson, 1980; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Marshall & Larson, 1982; Weaver, 1988);  
 NH (Banks, 1936; Weaver, 1988);  
 NS (Weaver, 1988);  
 NY (Banks, 1936; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Huryn & Foote, 1981; Huryn & Foote, 1983; Weaver, 1988; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Flint & Wiggins, 1961; Weaver, 1988; Zhou et al., 2011);  
 PA (Banks, 1936; Masteller & Flint, 1979; Masteller & Flint, 1984; Swegman, Walker, & Sykora, 1981; Weaver, 1988; Masteller & Flint, 1992);  
 QC (Robert, 1958; Roy & Harper, 1975; Roy & Harper, 1979; Weaver, 1988);  
 TN (Moulton, 2007);  
 VT (Wimmer, 1979);  
 WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Steven & Hilsenhoff, 1984; Weaver, 1988; Hilsenhoff, 1995; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Tarter & Hill, 1979; Weaver, 1988; Tarter, 1990; Tarter & Floyd, 2016).

*Lepidostoma sommermanae* Ross, 1946, CT;  
 male & female genitalia (Flint & Wiggins, 1961);  
 male and female genitalia (Weaver, 1988);  
 Canada (McConnochie & Likens, 1970);

- eastern Nearctic (Weaver, 2002);  
 CT (Ross, 1946; Weaver, 1988; Nelson & Downs, 1995);  
 DE (Lake, 1984; Weaver, 1988);  
 IL (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Weaver, 1988;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Flint & Wiggins, 1961; Weaver, 1988; Whitmore 2008);  
 NC (Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (McConnochie & Likens, 1970; Weaver, 1988);  
 NY (Ross, 1946; Weaver, 1988);  
 OH (Huryn & Foote, 1981; Huryn & Foote, 1983; Weaver, 1988; Usis & Foote, 1989;  
     Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Sinclair & Marshall, 1986; Williams & Williams, 1987; Williams, 1991);  
 PA (Ross, 1946; Swegman, Walker, & Sykora, 1981; Weaver, 1988; Masteller & Flint, 1992);  
 QC (Roy & Harper, 1979; Weaver, 1988);  
 VA (Flint & Wiggins, 1961; Weaver, 1988, Moulton, 2007; Flint, Hoffman, & Parker, 2008;  
     Flint, 2011);  
 VT (Wimmer, 1979).
- Lepidostoma spicatum* Denning, 1954, ID  
*Lepidostoma roemhildi* Denning, 1983, MT (Weaver, 1988);  
 head, male genitalia (Weaver, 1988);  
 western Nearctic (Weaver, 2002);  
 AB (Weaver, 1988);  
 ID (Denning, 1954; Weaver, 1988);  
 MT (Newell, 1970; Newell & Potter, 1973; Roemhild, 1982; Weaver, 1988; Jones & Resh, 1988);  
 UT (Weaver, 1988).
- Lepidostoma stigma* Banks, 1907, CO;  
*Lepidostoma knowltoni* Ross, 1938, UT (Weaver, 1988);  
 scape, forewing, male and female genitalia (Weaver, 1988);  
 western Nearctic (Weaver, 2002);  
 BC (Nimmo & Scudder, 1983; Weaver, 1988);  
 CO (Banks, 1907; Ross, 1946; Canton & Ward, 1981; Herrmann, Ruitter, & Unzicker, 1986;  
     Weaver, 1988);  
 MT (Ross, 1946; Newell & Potter, 1973; Roemhild, 1982; Weaver, 1988);  
 OR (Anderson, 1976; Weaver, 1988);  
 UT (Ross, 1938; Weaver, 1988);  
 WY (Ruitter & Lavigne, 1985; Weaver, 1988);  
 YT (Nimmo & Wickstrom, 1984; Weaver, 1988; Wiggins & Parker, 1997).
- Lepidostoma styliiferum* Flint and Wiggins, 1961, NC;  
 male genitalia (Weaver, 1988);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 NC (Flint & Wiggins, 1961; Weaver, 2002;  
     Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 SC (Weaver, 1988; Weaver, 2002);  
 TN (Weaver, 1988; Weaver, 2002; Zhou et al., 2011);  
 WV (Tarter, 1990; Tarter & Floyd, 2016).
- Lepidostoma tibiale* (Carpenter, 1933), Neuropsyche, NC;  
*Lepidostoma rileyi* Denning, 1948, NC (Weaver, 1988, or a previous author);  
 male and female genitalia (Weaver, 1988);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 southeastern Nearctic (Weaver, 2002);  
 AL (Harris, 1987; Weaver, 1988; Harris & Lago, 1990;  
     Harris, O'Neil, & Lago, 1991);  
 GA (Ross, 1946; Weaver, 1988);

NC (Carpenter, 1933; Denning, 1948; Weaver, 1988; DeWalt, Jacobus, & McCafferty, 2007; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);

SC (Weaver, 1988; Floyd, Morse, & Harris, 1997);

TN (Ross, 1946; Etnier & Schuster, 1979; Weaver, 1988; Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005);

VA (Parker & Voshell, 1981; Weaver, 1988; Hoffman & Parker, 1997; Flint, Hoffman, & Parker, 2008; Zhou et al., 2011).

*Lepidostoma togatum* (Hagen, 1861), Mormonia, Canada;

*Silo pallidus* Banks, 1897, NY (Milne, 1936);

*Pristosilo canadensis* Banks, 1899, Canada (Ross, 1944);

male & female antennal base and palpi and wings, male genitalia (Betten, 1934);

female genitalia (Ross, 1946);

internal female genitalia (Unzicker, 1968);

male head, female antenna, midtibia, male & female wings, male & female genitalia (Schmid, 1980);

male genitalia (Marshall & Larson, 1982; Houghton, 2012);

wings, male and female genitalia (Weaver, 1988);

photos of larva, head, case (Ruitter, Boyle, & Zhou, 2013);

Canada (Hagen, 1861; Banks, 1899);

NC/SC (Unzicker, Resh, & Morse, 1982);

widespread Nearctic (Weaver, 2002);

AB (Denning, 1954; Weaver, 1988; Moulton & Stewart, 1996);

AL (Weaver, 1988; Harris & Lago, 1990; Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Zhou, 2011);

AR (Ross, 1946; Unzicker, Aggus, & Warren, 1970; Weaver, 1988; Bowles & Mathis, 1989; Moulton & Stewart, 1996; Bowles, Cheri, Usrey, & Williams, 2020);

CT (Ross, 1946; Weaver, 1988; Nelson & Downs, 1995; Moulton & Stewart, 1996);

DC (Hagen, 1861; Weaver, 1988; Moulton & Stewart, 1996);

DE (Lake, 1984; Weaver, 1988; Moulton & Stewart, 1996);

GA (Betten, 1934; Weaver, 1988; Moulton & Stewart, 1996; Zhou, 2011);

IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

IN (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

KY (Ross, 1946; Resh, 1975; Weaver, 1988; Floyd & Schuster, 1990; Moulton & Stewart, 1996; Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MA (Neves, 1979; Moulton & Stewart, 1996);

MB (Flannagan & Flannagan, 1982; Moulton & Stewart, 1996; Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Zhou, 2011; Ruitter, Boyle, & Zhou, 2013; Chatila-Amos, 2021);

MD (Weaver, 1988; Moulton & Stewart, 1996; Flint, 2008);

ME (Ross, 1946; Blicke & Morse, 1966; Mingo & Gibbs, 1980; Bilger, 1986; Weaver, 1988; Moulton & Stewart, 1996; Huryn & Harris, 2000);

MI (Ross, 1946; Ellis, 1962; Weaver, 1988; Moulton & Stewart, 1996; Houghton, Brandin, & Brakel, 2011; Wright, Pytel, & Houghton, 2013; Brakel, Wassink, & Houghton, 2015; DeWalt & South, 2015; Houghton, 2015; Houghton, 2016; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018; Houghton & Lardner, 2020; Houghton, 2022; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MN (Etnier, 1965; Weaver, 1988; MacLean, 1995; Moulton & Stewart, 1996; Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2004a; Houghton & Holzenthal, 2010; Zhou, 2011; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MO (Ross, 1946; Weaver, 1988; Mathis & Bowles, 1992; Moulton & Stewart, 1996);

- Ferro & Sites, 2007; Bowles, 2020;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NB (Zhou, 2011);  
 NC (Ross, 1946; Weaver, 1988; Moulton & Stewart, 1996;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 ND (Harris, Lago, & Carslon, 1980; Weaver, 1988; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Banks, 1908; Marshall & Larson, 1982; Weaver, 1988; Moulton & Stewart, 1996);  
 NH (Morse & Blickle, 1953; Weaver, 1988; Moulton & Stewart, 1996);  
 NJ (Smith, 1900; Smith, 1910; Moulton & Stewart, 1996; Zhou, 2011);  
 NS (Denning, 1954; Moulton & Stewart, 1996; Zhou, 2011);  
 NT (Nimmo, 1986; Weaver, 1988; Moulton & Stewart, 1996;  
 Cordero, Sánchez-Ramírez, & Currie, 2017);  
 NY (Banks, 1897; Betten, 1926; Weaver, 1988; Moulton & Stewart, 1996;  
 Myers, Kondratieff, Mihuc, & Ruiter, 2011; Tozer, 2018);  
 OH (Masteller & Flint, 1979; Huryn & Foote, 1983; Weaver, 1988; Moulton & Stewart, 1996;  
 Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Bowles & Mathis, 1992; Moulton & Stewart, 1996);  
 ON (Weaver, 1988; Harper, 1989; Moulton & Stewart, 1996; Zhou, 2011;  
 Cordero, Sánchez-Ramírez, & Currie, 2017);  
 PA (Ross, 1946; Weaver, 1988; Masteller & Flint, 1992; Moulton & Stewart, 1996);  
 QC (Robert, 1958; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1975; Roy & Harper, 1979;  
 Williams & Williams, 1979; Weaver, 1988; Harper, 1989; Moulton & Stewart, 1996);  
 RI (Weaver, 1988; Moulton & Stewart, 1996; Hunt, 2017);  
 SC (Weaver, 1988);  
 SK (Milne, 1943; Weaver, 1988; Moulton & Stewart, 1996);  
 TN (Ross, 1946; Etnier & Schuster, 1979; Weaver, 1988; Moulton & Stewart, 1996;  
 Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005);  
 VA (Parker & Voshell, 1981; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2008;  
 Flint, 2011);  
 VT (Wimmer, 1979; Moulton & Stewart, 1996);  
 WI (Ross, 1946; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
 Weaver, 1988; Hilsenhoff, 1995; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Weaver, 1988; Tarter, 1990; Griffith & Perry, 1992; Moulton & Stewart, 1996;  
 Tarter & Floyd, 2016).
- Lepidostoma uinta Houghton, 2001, UT;  
 UT (Houghton, 2001; Weaver, 2002).
- Lepidostoma unicolor (Banks, 1911), Mormomyia, CA;  
 male & female genitalia (Ross, 1946);  
 head, wings, male and female genitalia (Weaver, 1988);  
 male genitalia (Houghton, 2012);  
 CO-ID-WY (Dudley & Anderson, 1982);  
 Nearctic (Weaver, 2002);  
 AB (Weaver, 1988);  
 AZ (Denning, 1954; Weaver, 1988; Ruiter, 1996; Houghton, 2001; Blinn & Ruiter, 2006;  
 Blinn & Ruiter, 2009a);  
 BC (Ross, 1946; Schmid & Guppy, 1952; Ross & Spencer, 1952;  
 Winterbourn, 1971; Nimmo & Scudder, 1978; Weaver, 1988);  
 CA (Banks, 1911; Resh & Sorg, 1978; Dudley & Anderson, 1982; Weaver, 1988;  
 Erman & Erman, 1990; Givens, 2014; Resh & Mendez, 2022);  
 CO (Ross, 1946; Herrmann, Ruiter, & Unzicker, 1986; Weaver, 1988; Ruiter, 1996;  
 Zuellig, Kondratieff, Ruiter, & Thorp, 2006;  
 Zuellig, Heinold, Kondratieff, & Ruiter, 2012);

ID (Ross, 1946; Newell & Minshall, 1977; Weaver, 1988);  
 MB (Cobb, Flannagan, & Friesen, 1984);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiters, Bright, Hudson, & Armitage, 2018;  
     Houghton, 2022;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Ross, 1946; Etnier, 1965; Weaver, 1988;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Roemhild, 1982; Weaver, 1988);  
 ND (Harris, Lago, & Carlson, 1980;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NM (Weaver, 1988; Vieira, Kondratieff, Ruiters, & Durfee, 2009);  
 NV (Ruiters, Baumann, & Flint, 2014);  
 OR (Anderson & Wold, 1972; Anderson, 1976; Anderson, 1978; Anderson, 1980;  
     Dudley & Anderson, 1982; Anderson, Cooper, & Denning, 1982;  
     Anderson, Wisseman, & Courtney, 1984; Anderson & Hansen, 1987; Weaver, 1988;  
     Anderson & Anderson, 1995);  
 QC (Roy & Harper, 1979; Weaver, 1988; Harper, 1989);  
 SK (Ross, 1946; Weaver, 1988);  
 SD (Weaver, 1988; Ruiters, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 UT (Knowlton & Harmston, 1939; Baumann & Unzicker, 1981;  
     Weaver, 1988);  
 WA (Anderson & Wisseman, 1987; Blinn & Ruiters, 2013);  
 WY (Ross, 1946; Lavigne, 1970; Ruiters & Lavigne, 1985;  
     Weaver, 1988; Ruiters, 1996);  
 YT (Wiggins & Parker, 1997).  
*Lepidostoma vernale* (Banks, 1897), Mormonia, NY;  
 male & female genitalia (Flint & Wiggins, 1961);  
 male genitalia (Marshall & Larson, 1982);  
 head, wings, male and female genitalia (Weaver, 1988);  
 head, wings, male genitalia (Weaver, 2002);  
 northeastern North America (Wiggins, 1961);  
 eastern Nearctic (Weaver, 2002);  
 CT (Weaver, 1988; Nelson & Downs, 1995);  
 MA (Denning, 1949; Neves, 1979; Weaver, 1988);  
 MD (Weaver, 1988);  
 ME (Weaver, 1988);  
 MI (Weaver, 1988; Houghton, Brandin, & Brakel, 2011; Houghton, 2015;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiters, Bright, Hudson, & Armitage, 2018;  
     Houghton, 2022;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Ross, 1946, Etnier & Schuster, 1979, misidentifications, Weaver, 1988);  
 NF (Wiggins, 1961; Marshall & Larson, 1982; Weaver, 1988);  
 NH (Denning, 1949; Weaver, 1988);  
 NS (Banks, 1930; Weaver, 1988);  
 NY (Banks, 1897; Ross, 1946; Weaver, 1988; Myers, Kondratieff, Mihuc, & Ruiters, 2011);  
 OH (Huryn & Foote, 1981; Huryn & Foote, 1983; Weaver, 1988; Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Williams & Williams, 1987; Williams, Tavares, & Bryant, 1987;  
     Weaver, 1988; D. Williams, 1991; N. Williams, 1991);  
 PA (Masteller & Flint, 1979; Swegman, Walker, & Sykora, 1981;  
     Weaver, 1988; Masteller & Flint, 1992);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979; Weaver, 1988);  
 VA (Weaver, 1988; Flint, Hoffman, & Parker, 2008; Flint, 2011);



- VT (Wimmer, 1979);  
 WI (Steven & Hilsenhoff, 1984; Weaver, 1988; Hilsenhoff, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Weaver, 1988; Tarter, 1990; Griffith & Perry, 1992; Tarter & Floyd, 2016).
- Lepidostoma veroda* Ross, 1948, OR;  
 head, wings, male and female genitalia (Weaver, 1988);  
 CA (Weaver, 1988; Erman, 1987; Erman, 1989; Erman & Erman, 1990; Erman, 1998;  
 Weaver, 2002; Resh & Mendez, 2022);  
 OR (Ross, 1948; Anderson, 1976; Anderson, Cooper, & Denning, 1982;  
 Anderson, Wisseman, & Courtney, 1984; Weaver, 1988; Weaver, 2002);  
 WA (Anderson & Wisseman, 1987; Weaver, 1988; Weaver, 2002).
- Lepidostoma weaveri* Harris, 1986, AL;  
 AL (Harris, 1986; Harris, 1987; Weaver, 1988; Harris & Lago, 1990; Harris, 1990;  
 Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Morse et al, 1997;  
 Hicks & Haynes, 2000a; Weaver, 2002).
- Lepidostoma wigginsi* Weaver, 2002, NC;  
*Lepidostoma serratum* Flint & Wiggins, 1961, NC (Weaver, 2002);  
 male and female genitalia (Weaver, 1988);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 eastern Nearctic (Weaver, 2002);  
 CT (Nelson, 1987; Weaver, 1988; Nelson & Downs, 1995);  
 FL (Pescador, Rasmussen, & Harris, 2004; Rasmussen, 2004);  
 LA (Weaver, 1988);  
 NC (Flint & Wiggins, 1961; Weaver, 1988; Morse, Hamilton, & Hoffman, 1989;  
 Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 PA (Masteller & Flint, 1992);  
 SC (Morse, Hamilton, & Hoffman, 1989);  
 TN (Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Moulton, 2007; Flint, Hoffman, & Parker, 2008; Flint, 2014; Flint, 2017).
- Theliopsyche corona* Ross, 1938, TN;  
 male and female genitalia, wings, head (Weaver, 1988);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 NC (Ross, 1944; Weaver, 1988; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010;  
 Zhou, 2011);  
 TN (Ross, 1938; Weaver, 1988; Etnier, Baxter, Fraley, & Parker, 1998).
- Theliopsyche epilonis* Ross, 1938, NC;  
 male and female genitalia (Weaver, 1988);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 NC (Ross, 1938; Weaver, 1988; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010;  
 Zhou, 2011);  
 TN (Ross, 1946; Weaver, 1988; Etnier, Baxter, Fraley, & Parker, 1998).
- Theliopsyche grisea* (Hagen, 1861), Silo, NJ;  
 male genitalia (Weaver, 1988);  
 female genitalia (Schmid, 1980);  
 male head, male & female wings, male & female genitalia  
 (Schmid, 1980);  
 Canada (McConnochie & Likens, 1970);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 NC (Weaver, 1988; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (McConnochie & Likens, 1970; Schmid, 1980; Weaver, 1988);  
 NJ (Hagen, 1861; Weaver, 1988);  
 NY (Banks, 1892; Weaver, 1988);  
 PA (Weaver, 1988; Masteller & Flint, 1992);  
 SC (Weaver, 1988; Zhou, 2011);

- TN (Weaver, 1988; Etnier, Baxter, Fraley, & Parker, 1998; DeWalt, Jacobus, & McCafferty, 2007);  
 VA (Parker & Voshell, 1981; Weaver, 1988; Flint, Hoffman, & Parker, 2008; Zhou, 2011; Flint, 2017).
- Theliopsyche melas* Edwards, 1956, TN;  
 female genitalia (Edwards, 1956);  
 larva, case (Wiggins, 1977);  
 larval head, hindwing, male genitalia (Weaver, 1988);  
 AL (Harris & Lago, 1990; Harris, 1990; Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991);  
 KY (Resh, 1975; Weaver, 1988; Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 TN (Edwards, 1956; Wiggins, 1977; Weaver, 1988; Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Parker & Voshell, 1981; Weaver, 1988; Flint, Hoffman, & Parker, 2008);  
 WV (Tarter, 1990; Tarter & Floyd, 2016).
- Theliopsyche parva* Banks, 1911, NY;  
 wings, male and female genitalia (Weaver, 1988);  
 MA (Weaver, 1988);  
 NY (Banks, 1911; Weaver, 1988; Myers, Kondratieff, Mihuc, & Ruitter, 2011);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979; Schmid, 1980; Weaver, 1988).
- Theliopsyche tallapoosa* Harris, 1986, AL;  
 AL (Harris, 1986; Weaver, 1988; Harris & Lago, 1990; Harris, 1990; Harris, O'Neil, & Lago, 1991; Morse et al, 1997).

Leptoceridae (7 genera, 124 species) —Long-horned Caddisflies

- Ceraclea alabamae* Harris, 1989, AL;  
 AL (Harris, 1989; Harris & Lago, 1990; Harris, 1990; Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Morse et al, 1997);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 PA (Masteller & Flint, 1992).
- Ceraclea alagma* (Ross, 1938), Athripsodes, IL;  
 male genitalia (Morse, 1975; Marshall & Larson, 1982; Houghton, 2012);  
 larva, pupa, case (Resh, 1976);  
 north central and northeastern North America (Morse, 1975);  
 CT (Downs & Godwin, 1987; Nelson & Downs, 1995);  
 DE (Lake, 1984);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1938; Resh, 1976; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Whitmore 2008);  
 MB (Resh, 1976; Flannagan & Flannagan, 1982);  
 ME (Blickle & Morse, 1966; Huryn & Harris, 2000);  
 MI (Ross, 1944; Ellis, 1962; Houghton, Brandin, & Brakel, 2011; Houghton, 2016; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018; Houghton, 2022; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Ross, 1944; Etnier, 1965; MacLean, 1995; Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Resh, 1976);  
 ND (Harris, Lago, & Carlson, 1980; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

NE (Harris, Kondratieff, & Boyle, 2000;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NF (Marshall & Larson, 1982);  
NH (Morse & Blickle, 1953);  
NY (Ross, 1944; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
OH (McElravy, Arsuffi, & Foote, 1977; Huryn & Foote, 1983; MacLean & MacLean, 1984;  
Usis & MacLean, 1986; Garono & MacLean, 1988; Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
ON (Resh, 1976);  
PA (Masteller & Flint, 1979; Masteller & Flint, 1992);  
QC (Robert, 1958; Corbet, Schmid, & Augustin, 1966;  
Roy & Harper, 1975; Roy & Harper, 1979);  
VT (Wimmer, 1979);  
WA (Zack, Ruiter, Strenge, & Landolt, 2006; Blinn & Ruiter, 2013);  
WI (Ross, 1938; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
Resh, 1976; Hilsenhoff, 1995;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).

*Ceraclea albosticta* (Hagen, 1861), *Leptocerus*, Winthem, North America;  
*Athripsodes saccus* Ross, 1938, OH (Morse, 1975);  
male genitalia (Morse, 1975; Houghton, 2012);  
Great Lakes region (Morse, 1975);  
Winthem (Hagen, 1861, state or province unknown);  
IL (Ross, 1944;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MN (Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NY (Betten, 1934);  
OH (Ross, 1938; Marshall, 1939; Huryn & Foote, 1983; Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
PA (Masteller & Flint, 1979; Masteller & Flint, 1992);  
QC (Ross, 1944; Robert, 1958; Roy & Harper, 1975; Roy & Harper, 1979;  
Williams & Williams, 1979; Harper, 1989);  
WI (Hilsenhoff, 1975;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).

*Ceraclea alces* (Ross, 1941), *Athripsodes*, WI;  
male genitalia (Morse, 1975; Houghton, 2012);  
larva, pupa, case (Resh, 1976);  
north central North America (Morse, 1975);  
AL (Harris & Lago, 1990; Harris, 1990;  
Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991);  
IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MA (Whitmore 2008);  
ME (Blickle & Morse, 1966);  
MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MN (Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
ON (Ross, 1941; Resh, 1976);  
QC (Roy & Harper, 1975; Roy & Harper, 1979);  
WI (Ross, 1941; Hilsenhoff, 1981; Hilsenhoff, 1995;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).

*Ceraclea ancylus* (Vorhies, 1909), *Leptocerus*, WI;

male genitalia (Resh, 1974, Morse, 1975; D.H. Smith, 1979; Houghton, 2012);  
 larva, pupa, case (Resh, 1976);  
 central and eastern North America (Morse, 1975);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris, Lago, & O'Neil, 1984; Harris, 1987; Harris & Lago, 1990;  
     Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Hicks & Haynes, 2000a);  
 AR (Unzicker, Aggus & Warren, 1970; Bowles & Mathis, 1989; Moulton & Stewart, 1996;  
     Bowles, Cheri, Usrey, & Williams, 2020);  
 CT (Nelson & Downs, 1995);  
 DE (Lake, 1984; Moulton & Stewart, 1996);  
 GA (Ross, 1944; Moulton & Stewart, 1996; Zhou, 2011);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1944; Resh, 1976; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton, Schuster, & DuBois, 1983; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Resh, 1976; Resh, 1977; Resh, 1978; Resh, 1979;  
     Haag, Resh, & Neff, 1984; Floyd & Schuster, 1990;  
     Moulton & Stewart, 1996; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Neves, 1979; Moulton & Stewart, 1996);  
 MB (Neave, 1934; Resh, 1976; Flannagan & Flannagan, 1982);  
 ME (Blickle & Morse, 1966; Moulton & Stewart, 1996);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
     Houghton, 2022;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Lager, Johnson, Williams, & McCullough, 1979;  
     MacLean, 1995; Moulton & Stewart, 1996; Monson, 1997;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Zhou, 2011; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Sullivan, 1929; Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Howell, 1939; Resh, 1976; Lenat, 1983;  
     Moulton & Stewart, 1996 Moulton & Stewart, 1996;  
     Floyd, Morse, & Harris, 1997; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 ND (Harris, Lago, & Carlson, 1980; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NY (Betten, 1934; Moulton & Stewart, 1996; Myers, Kondratieff, Mihuc, & Ruitter, 2011);  
 OH (Marshall, 1939; Ross, 1944; Huryn & Foote, 1983; MacLean & MacLean, 1984;  
     Moulton & Stewart, 1996; Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Ross, 1944; Bowles & Mathis, 1992; Moulton & Stewart, 1996);  
 ON (Adamstone, 1924; Munroe, 1951; Resh, 1976; Harper, 1989; Moulton & Stewart, 1996;  
     Zhou, 2011);  
 PA (Masteller & Flint, 1992);  
 SD (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 TN (Howell, 1941; Edwards, 1966; Etnier & Schuster, 1979;  
     Moulton & Stewart, 1996);  
 PA (Masteller & Flint, 1979; Moulton & Stewart, 1996);  
 QC (Nimmo, 1966; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1975;  
     Roy & Harper, 1979; Williams & Williams, 1979; Harper, 1989;  
     Moulton & Stewart, 1996);  
 SC (Moulton & Stewart, 1996; Floyd, Morse, & Harris, 1997);

TN (Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Parker & Voshell, 1981; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2008; Flint, 2011);  
 WI (Vorhies, 1909; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Shapas & Hilsenhoff, 1976; Resh, 1976; Hilsenhoff, 1995; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Tarter & Floyd, 2016).

*Ceraclea annulicornis* (Stephens, 1836), *Leptocerus*, Britain;  
*Leptocerus futilis* Banks, 1914, ON (Milne, 1934);  
*Leptocerus lugens* Hagen, 1861, Canada (Milne, 1934);  
*Leptocerus recurvatus* Banks, 1908, NY (Milne, 1934);  
*Leptocerus retactus* Banks, 1914, ON (Milne, 1934);  
 male genitalia, pupal anal rods, case (Morse, 1975);  
 larval head, mesonotum, case (Morse & Wallace, 1976);  
 larval case (Lepneva, 1964/70);  
 larva, pupa, case (Lepneva, 1966/71; Resh, 1976);  
 male head, foreclaws, maxillary palp, male & female wings, male & female genitalia (Schmid, 1980);  
 male genitalia (Marshall & Larson, 1982; Houghton, 2012);  
 photos of larva & case, head, abdomen posterior (Ruiter, Boyle, & Zhou, 2013);  
 Holarctic region (Morse, 1975);  
 AK (Ross, 1944);  
 CA (Denning, 1956; Resh & Mendez, 2022);  
 CO (Ross, 1944; Herrmann, Ruiter, & Unzicker, 1986);  
 CT (Nelson & Downs, 1995);  
 ID (Newell & Minshall, 1977);  
 MB (Lehmkuhl & Kerst, 1979; Flannagan & Flannagan, 1982; Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruiter, Boyle, & Zhou, 2013; Chatila-Amos, 2021);  
 ME (Blickle & Morse, 1966);  
 MI (Leonard & Leonard 1949; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Lager, Johnson, Williams, & McCullough, 1979; MacLean, 1995; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Newell, 1970; Newell & Potter, 1973; Roemhild, 1982);  
 NF (Marshall & Larson, 1982);  
 NY (Banks, 1908; Ross, 1944; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 ON (Banks, 1914; Ross, 1938; Ross, 1944);  
 OR (Ross, 1944; Anderson, 1976);  
 QC (Ross, 1944; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1975; Roy & Harper, 1979; Williams & Williams, 1979; Harper, 1989);  
 SK (Smith, 1975);  
 WA (Blinn & Ruiter, 2013);  
 WI (Ross, 1944; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Resh, 1976; Hilsenhoff, 1995; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WY (Ruiter, 1999);  
 YT (Wiggins & Parker, 1997);  
 England (Stephens, 1836);  
 Europe, Siberia, Amur region, Chukchee National District, Japan (Lepneva, 1966/71).

*Ceraclea arielles* (Denning, 1942), *Athripsodes*, MN;  
*Athripsodes pfadti* Denning, 1948, WY (Morse, 1975);

male genitalia (Morse, 1975; Houghton, 2012);  
 larva, pupa, case (Resh, 1976);  
 north central North America (Morse, 1975);  
 BC (Nimmo & Scudder, 1983);  
 CO (Ruiter, 1990);  
 MB (Flannagan & Flannagan, 1982; Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010;  
     Ruiter, Boyle, & Zhou, 2013);  
 MI (Leonard & Leonard, 1949; Houghton, Brandin, & Brakel, 2011;  
     Wright, Pytel, & Houghton, 2013;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton & Lardner, 2020; Houghton, 2022;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Denning, 1942; Etnier, 1965; Monson, 1997;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 SK (Resh, 1976);  
 WI (Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hilsenhoff, 1995;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WY (Denning, 1948; Ruiter & Lavigne, 1985).  
*Ceraclea brevis* (Etnier, 1968), Athripsodes, MN  
     male genitalia (Morse, 1975);  
     MN (Etnier, 1968; Morse, 1975;  
         may be an “aberrant” specimen of *Ceraclea tarsipunctata* according to Houghton, 2012;  
         Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).  
*Ceraclea cama* (Flint, 1965), Athripsodes, NC;  
     male genitalia (Morse, 1975);  
     NC/SC (Unzicker, Resh & Morse, 1982);  
     NC (Flint, 1965; Morse, 1975; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010).  
*Ceraclea cancellata* (Betten, 1934), Leptocerus, NY;  
     Athripsodes improcerus Edwards, 1956, TN (Morse, 1975);  
     male & female genitalia (Ross, 1944; Morse, 1975);  
     male genitalia (Morse & Wallace, 1976; Marshall & Larson, 1982);  
     larva, pupa, case (Resh, 1976);  
     male genitalia & photo of adult (Houghton, 2012);  
     central and eastern North America (Morse, 1975);  
     NC/SC (Unzicker, Resh, & Morse, 1982);  
     AL (Harris et al, 1983; Harris, Lago, & O’Neil, 1984; Harris, 1987; Harris & Lago, 1990;  
         Frazer, Harris, & Ward, 1991; Harris, O’Neil, & Lago, 1991;  
         Moulton & Stewart, 1996; Hicks & Haynes, 2000a; Zhou, 2011; Harris & O’Neil, 2015;  
         Denson, Rasmussen, & Harris, 2016);  
     AR (Ross, 1944; Unzicker, Aggus, & Warren, 1970; Bowles & Mathis, 1989;  
         Moulton & Stewart, 1996; Bowles, Cheri, Usrey, & Williams, 2020);  
     BC (Ross & Spencer, 1952; Nimmo & Scudder, 1983; Moulton & Stewart, 1996);  
     CT (Harris, O’Neil, & Lago, 1991; Nelson & Downs, 1995; Moulton & Stewart, 1996);  
     DE (Lake, 1984; Moulton & Stewart, 1996);  
     FL (Betten, 1934; Gordon, 1984; Pescador, Rasmussen, & Harris, 1995, 2004;  
         Moulton & Stewart, 1996; Rasmussen, 2004; Zhou, 2011;  
         Denson, Rasmussen, & Harris, 2016);  
     GA (Ross, 1944; Moulton & Stewart, 1996; Zhou, 2011);  
     IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
     IL (Ross, 1944; Resh, 1976; Moulton & Stewart, 1996;  
         Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
     IN (Ross, 1944; Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
         Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
     KS (Hamilton, Schuster, & DuBois, 1983; Moulton & Stewart, 1996);

Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Ross, 1944; Resh, 1975; Resh, 1976; Haag, Resh, & Neff, 1984;  
 Floyd & Schuster, 1990; Moulton & Stewart, 1996;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 MA (Neves, 1979; Moulton & Stewart, 1996);  
 MB (Flannagan & Flannagan, 1982; Moulton & Stewart, 1996; Zhou, 2011);  
 ME (Blickle & Morse, 1966; Moulton & Stewart, 1996; Huryn & Harris, 2000; Zhou, 2011);  
 MI (Leonard & Leonard, 1949; Ellis, 1962; Davis, Hudson, & Armitage, 1991;  
 Moulton & Stewart, 1996; Houghton, Brandin, & Brakel, 2011;  
 Wright, Pytel, & Houghton, 2013; Houghton, 2016;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Elkins, 1936; Etnier, 1965; MacLean, 1995; Moulton & Stewart, 1996;  
 Ruitter, 1996; Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001;  
 Houghton, 2004a; Houghton & Holzenthal, 2010; Zhou, 2011; Houghton, 2012  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Ross, 1944; Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007;  
 Bowles, 2020;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996);  
 MT (Roemhild, 1982; Moulton & Stewart, 1996);  
 NC (Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 ND (Harris, Lago, & Carlson, 1980; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Marshall & Larson, 1982; Moulton & Stewart, 1996; Zhou, 2011);  
 NH (Morse & Blickle, 1953; Moulton & Stewart, 1996);  
 NS (Zhou, 2011);  
 NY (Betten, 1934; Myers, Kondratieff, Mihuc, & Ruitter, 2011; Tozer, 2018);  
 OH (Marshall, 1939; Ross, 1944; Huryn & Foote, 1983; Usis & MacLean, 1986;  
 Garono & MacLean, 1988; Moulton & Stewart, 1996; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Ross, 1944; Bowles & Mathis, 1992; Moulton & Stewart, 1996;  
 Zuellig, Kondratieff, Schmidt, Durfee, Ruitter, & Prather, 2006);  
 ON (Munroe, 1951; Moulton & Stewart, 1996; Zhou, 2011);  
 PA (Ross, 1941; Masteller & Flint, 1992; Moulton & Stewart, 1996);  
 QC (Ross, 1944; Robert, 1958; Corbet, 1966; Corbet, Schmid, & Augustin, 1966;  
 Roy & Harper, 1975; Roy & Harper, 1979; Harper, 1989; Moulton & Stewart, 1996;  
 Zhou, 2011);  
 SC (Morse, Chapin, Herlong, & Harvey, 1980;  
 Moulton & Stewart, 1996; Floyd, Morse, & Harris, 1997);  
 SD (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 TN (Ross, 1944; Edwards, 1956; Edwards, 1966; Etnier & Schuster, 1979;  
 Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998;  
 DeWalt & Heinold, 2005; Etnier, Bauer, & Zirkle, 2006; Zhou, 2011);  
 VA (Parker & Voshell, 1981; Hoffman & Parker, 1997; Moulton & Stewart, 1996;  
 Flint, Hoffman, & Parker, 2008; Zhou, 2011; Flint, 2011);  
 WI (Ross, 1944; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
 Lillie & Hilsenhoff, 1992; Hilsenhoff, 1995; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Glover & Tarter, 1990; Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016);  
 YT (Wiggins & Parker, 1997).  
 Ceraclea cophya (Ross, 1938), Athripsodes, WY;

male genitalia (Morse, 1975);  
 BC (Ross & Spencer, 1952);  
 CO (Herrmann, Ruitter, & Unzicker, 1986);  
 ID (Newell & Minshall, 1977);  
 MT (Roemhild, 1982);  
 WY (Ross, 1938; Morse, 1975; Ruitter & Lavigne, 1985).  
*Ceraclea diluta* (Hagen, 1861), *Leptocerus*, IL;  
*Leptocerus retactus* Banks, 1914, ON (Morse, 1975);  
 male & female genitalia (Ross, 1944);  
 male genitalia (Morse, 1975; Marshall & Larson, 1982; Houghton, 2012);  
 larva, pupa, case (Resh, 1976);  
 larval head & thorax (Resh, 1979);  
 adult mesonotum (Marshall & Larson, 1982);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 north central and eastern North America (Morse, 1975);  
 AL (Harris & Lago, 1990; Frazer, Harris, & Ward, 1991;  
     Harris, O'Neil, & Lago, 1991; Harris & O'Neil, 2015);  
 AR (Harris, O'Neil, & Lago, 1991);  
 CT (Harris, O'Neil, & Lago, 1991; Nelson & Downs, 1995);  
 DE (Lake, 1984);  
 FL (Harris, O'Neil, & Lago, 1991; Pescador, Rasmussen, & Harris, 1995, 2004;  
     Rasmussen, 2004);  
 GA (Ross, 1944);  
 IL (Hagen, 1861; Banks, 1892; Resh, 1976;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1944; Waltz & McCafferty, 1983;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Banks, 1894; Hamilton, Schuster, & DuBois, 1983;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Houp, 1999; Harris, O'Neil, & Lago, 1991;  
     Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Harris, O'Neil, & Lago, 1991);  
 MA (Harris, O'Neil, & Lago, 1991);  
 MB (Flannagan & Flannagan, 1982);  
 ME (Blickle & Morse, 1966; Hury & Harris, 2000);  
 MI (Leonard & Leonard, 1949; Resh, 1976; Yanoviak & McCafferty, 1996;  
     Davis, Hudson, & Armitage, 1991; Houghton, Brandin, & Brakel, 2011;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Ross, 1944; Etnier, 1965; MacLean, 1995; Lager, Johnson, Williams, & McCullough, 1979;  
     Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001; Zhou, 2011;  
     Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Harris, O'Neil, & Lago, 1991;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Holzenthal, Harris, & Lago, 1982);  
 MT (Harris, O'Neil, & Lago, 1991);  
 NB (Zhou, 2011);  
 NC (Floyd, Morse, & Harris, 1997; DeWalt, Jacobus, & McCafferty, 2007;  
     Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 ND (Harris, Lago, & Carlson, 1980;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Marshall & Larson, 1982);  
 NH (Morse & Blickle, 1953);



NS (Zhou, 2011);  
 NY (Betten, 1934; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Marshall, 1939; Ross, 1944; Huryrn & Foote, 1983; Garono & MacLean, 1988;  
     Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Harris, O'Neil, & Lago, 1991; Bowles & Mathis, 1992);  
 ON (Banks, 1914; Ross, 1944; Munroe, 1951; Resh, 1976;  
     Harper, 1989; Zhou, 2011);  
 PA (Hyland, 1948; Masteller & Flint, 1992);  
 QC (Ross, 1944; Robert, 1958; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1975;  
     Roy & Harper, 1979; Williams & Williams, 1979; Harper, 1989);  
 SC (Morse, Chapin, Herlong, & Harvey, 1980; Morse, Hamilton, & Hoffman, 1989;  
     Floyd, Morse, & Harris, 1997);  
 TN (Etnier & Schuster, 1979; Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Resh, 1976; Parker & Voshell, 1981; Hoffman & Parker, 1997;  
     Flint, Hoffman, & Parker, 2008; Zhou, 2011);  
 VT (Wimmer, 1979);  
 WI (Vorhies, 1909; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
     Resh, 1976; Hilsenhoff, 1995;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Glover & Tarter, 1990; Tarter, 1990; Tarter & Floyd, 2016).  
*Ceraclea enodis* Whitlock & Morse, 1994, NC;  
 AR (possibly Etnier, 2010);  
 CT (Whitlock & Morse, 1994);  
 GA (Whitlock & Morse, 1994);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Whitlock & Morse, 1994;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Whitlock & Morse, 1994; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 ON (Whitlock & Morse, 1994);  
 SC (Whitlock & Morse, 1994);  
 TN (Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Flint, Hoffman, & Parker, 2008).  
*Ceraclea erratica* (Milne, 1936), Athripsodes, QC;  
 male genitalia (Morse, 1975);  
 phallus (Schmid, 1980);  
 Great Lakes region (Morse, 1975);  
 IL (Ross, 1944;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MB (Milne, 1936; Flannagan & Flannagan, 1982; Ruiter, Boyle, & Zhou, 2013);  
 MI (Davis, Hudson, & Armitage, 1991;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Ross, 1944; Huryrn & Foote, 1983; Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Milne, 1936);  
 QC (Milne, 1936; Ross, 1944; Robert, 1958; Corbet, Schmid, & Augustin, 1966;  
     Roy & Harper, 1975; Roy & Harper, 1979);  
 WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hilsenhoff, 1995;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).  
*Ceraclea erulla* (Ross, 1938), Athripsodes, OH;

male genitalia (Morse, 1975);  
 OH (Ross, 1938; Morse, 1975; Huryñ & Foote, 1983; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).  
*Ceraclea excisa* (Morton, 1904), Leptocerus, Finland;  
*Athripsodes miscus* Ross, 1941, WI (Morse, 1975);  
*Athripsodes perplexus nordus* Milne, 1934, AK (Morse, 1975);  
*Athripsodes scopulosus* Leonard & Leonard, 1949, MI  
 (Morse, 1975);  
 larval case (Lepneva, 1964/70);  
 male genitalia, larval head, pupal mandible and lateral tubercle of A1 (Morse, 1975);  
 larva, pupa, case (Lepneva, 1966/71; different for "misca" and "excisa," Resh, 1976);  
 male genitalia (Houghton, 2012);  
 photos of larva & case, head, abdomen posterior (Ruiter, Boyle, & Zhou, 2013);  
 northern Holarctic region (Morse, 1975);  
 AB (Richardson & Clifford, 1986);  
 AK (Milne, 1934);  
 MA (Neves, 1979);  
 MB (Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruiter, Boyle, & Zhou, 2013;  
 Chatila-Amos, 2021);  
 MI Leonard & Leonard, 1949;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Ross 1941; Etnier, 1965; Lager, Johnson, Williams, & McCullough, 1979; Monson, 1997;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NY (Leonard & Leonard, 1949);  
 ON (Resh, 1976; Cordero, Sánchez-Ramírez, & Currie, 2017);  
 QC (Roy & Harper, 1979; Harper, 1989);  
 WI (Ross, 1941; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Resh, 1976; Hilsenhoff, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 Finland (Morton, 1904);  
 northern Europe, eastern Siberia, Amur region (Lepneva, 1966/71).  
*Ceraclea flava* (Banks, 1904), Leptocerus, VA;  
 male genitalia (Resh, 1974);  
 male genitalia (Morse, 1975; Houghton, 2012);  
 larva, pupa, case (Resh, 1976);  
 central and eastern North America (Morse, 1975);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris, Lago, & O'Neil, 1984; Harris, 1987; Harris & Lago, 1990;  
 Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996;  
 Hicks & Haynes, 2000a; Hicks & Haynes, 2000b; Zhou, 2011; Harris & O'Neil, 2015);  
 AR (Bowles & Mathis, 1989; Moulton & Stewart, 1996);  
 DC (Banks, 1904; Moulton & Stewart, 1996);  
 DE (Lake, 1984; Moulton & Stewart, 1996);  
 FL (Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004; Zhou, 2011;  
 Denson, Rasmussen, & Harris, 2016);  
 IA (Wenke, 1967; Moulton & Stewart, 1996; Blinn, Ruiter, & Flint, 2009;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1944; Resh, 1976; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1944; Resh, 1976; Waltz & McCafferty, 1983;  
 Moulton & Stewart, 1996; Simon, Morris, Robb, & McCoy, 2015;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton, Schuster, & DuBois, 1983; Moulton & Stewart, 1996);

- Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Ross, 1944; Resh, 1975; Moulton & Stewart, 1996; Zhou, 2011;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MD (Flint, 2008);  
 MI (Leonard & Leonard, 1949; Davis, Hudson, & Armitage, 1991; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Ross, 1944; Etnier, 1965; Resh, 1976; Moulton & Stewart, 1996;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton & Holzenthal, 2010;  
 Zhou, 2011; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996);  
 NC (Moulton & Stewart, 1996; DeWalt, Jacobus, & McCafferty, 2007;  
 Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Morse & Blickle, 1953; Moulton & Stewart, 1996);  
 NY (McCabe, 1986; Moulton & Stewart, 1996; Myers, Kondratieff, Mihuc, & Ruitter, 2011);  
 OH (Huryn & Foote, 1983; Usis & MacLean, 1986; Moulton & Stewart, 1996;  
 Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Bowles & Mathis, 1992; Moulton & Stewart, 1996);  
 ON (Resh, 1976; Moulton & Stewart, 1996);  
 PA (Ross, 1941; Masteller & Flint, 1992; Moulton & Stewart, 1996);  
 SC (Morse, Chapin, Herlong, & Harvey, 1980; Moulton & Stewart, 1996);  
 TN (Edwards, 1966; Etnier & Schuster, 1979;  
 Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998;  
 DeWalt & Heinold, 2005);  
 TX (Edwards & Arnold, 1961; Edwards, 1973; Moulton & Stewart, 1996;  
 Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);  
 VA (Banks, 1904; Parker & Voshell, 1981; Moulton & Stewart, 1996;  
 Flint, Hoffman, & Parker, 2008; Zhou, 2011; Flint, 2011);  
 WI (Ross, 1944; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
 Resh, 1976; Lillie & Hilsenhoff, 1992; Hilsenhoff, 1995;  
 Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Glover & Tarter, 1990; Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016).  
 ? Ceraclea floridana (Banks, 1903), Leptocerus, FL; nomen dubium;  
 FL (Banks, 1903; Morse, 1975; Gordon, 1984;  
 Pescador, Rasmussen, & Harris, 1995, 2004).  
 Ceraclea joannae Morse & Lenat, 2006; NC  
 NC (Morse & Lenat, 2006; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 Ceraclea latahensis (Smith, 1962), Athripsodes, ID;  
 phallus (Denning, 1966);  
 male genitalia (Morse, 1975);  
 central western North America (Morse, 1975);  
 BC (Nimmo & Scudder, 1983);  
 CA (Denning, 1966; Resh & Mendez, 2022);  
 ID (Smith, 1962);  
 NV (Denning, 1966; Ruitter, Baumann, & Flint, 2014);  
 OR (Denning, 1966; Anderson, 1976);  
 WA (Denning, 1966; Newell, Ruitter, & Strenge, 2001).  
 Ceraclea limnetes Rasmussen & Harris, 2008, in Rasmussen, Harris, & Denson, FL

FL (Rasmussen, Harris, & Denson, 2008; Denson, Rasmussen, & Harris, 2016).

*Ceraclea maccalmonti* Moulton & Stewart, 1992, MO;  
 MO (Moulton & Stewart, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).

*Ceraclea maculata* (Banks, 1899), *Leptocerus*, DC;  
*Leptocerus inornatus* Banks, 1914, TX (Flint, 1966);  
*Leptocerus transversus* Ross nec Hagen, 1944 (Morse, 1975);  
 male genitalia (Resh, 1974);  
 male genitalia (Morse, 1975);  
 larva, pupa, case (Resh, 1976);  
 larval head, pupal anal rods, male genitalia (Resh, 1976);  
 larval head & thorax (Resh, 1979);  
 male genitalia & photo of adult (Houghton, 2012);  
 central and eastern North America (Morse, 1975);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 OK/TX (Resh, White, & White, 1978);  
 AL (Harris et al, 1983; Harris, Lago, & O'Neil, 1984;  
 Harris, 1987; Harris & Lago, 1990;  
 Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991;  
 Moulton & Stewart, 1996; Hicks & Haynes, 2000a;  
 Hicks & Haynes, 2000b; Harris & O'Neil, 2015; Denson, Rasmussen, & Harris, 2016);  
 AR (Ross, 1944; Unzicker, Aggus, & Warren, 1970; Bowles & Mathis, 1989;  
 Moulton & Stewart, 1996; Zhou, 2011; Bowles, Cheri, Usrey, & Williams, 2020);  
 BC (Nimmo & Scudder, 1978; Moulton & Stewart, 1996);  
 CA (Denning, 1956; Moulton & Stewart, 1996; Resh & Mendez, 2022);  
 CO (Herrmann, Ruiter, & Unzicker, 1986; Moulton & Stewart, 1996;  
 Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 CT (Nelson, 1987; Nelson & Downs, 1995; Moulton & Stewart, 1996);  
 DC (Banks, 1899; Ross, 1944; Moulton & Stewart, 1996);  
 DE (Lake, 1984; Moulton & Stewart, 1996);  
 FL (Harris, Lago, & Scheiring, 1982; Gordon, 1984;  
 Pescador, Rasmussen, & Harris, 1995, 2004;  
 Moulton & Stewart, 1996; Rasmussen, 2004; Zhou, 2011;  
 Denson, Rasmussen, & Harris, 2016);  
 GA (Ross, 1944; Moulton & Stewart, 1996;  
 Murray-Stoker, Batzer, Murray-Stoker, & McHugh, 2020);  
 IA (Ross, 1944; Wenke, 1967; Moulton & Stewart, 1996; Blinn, Ruiter, & Flint, 2009;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ID (Smith, 1965; Moulton & Stewart, 1996);  
 IL (Ross, 1944; Harris, 1971; Resh, 1976; Moulton & Stewart, 1996; Zhou, 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1944; Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton, Schuster, & DuBois, 1983; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Ross, 1944; Resh, 1975; Haag, Resh, & Neff, 1984; Floyd & Schuster, 1990;  
 Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006; Zhou, 2011;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996);  
 MA (Neves, 1979; Moulton & Stewart, 1996);  
 MD (Flint, 2008);  
 ME (Procter, 1946; Blickle & Morse, 1966; Moulton & Stewart, 1996);  
 MI (Leonard & Leonard, 1949; Ellis, 1962; Moulton & Stewart, 1996; Houghton, 2016);

Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Ross, 1944; Etnier, 1965; Lager, Johnson, Williams, & McCullough, 1979; Ruiter, 1996;  
 Monson, 1997; Harris, Kondratieff, & Boyle, 2000;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Zhou, 2011; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Ross, 1944; Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996);  
 MT (Newell, 1970; Newell & Potter, 1973; Moulton & Stewart, 1996);  
 NB (Ross, 1944; Moulton & Stewart, 1996);  
 NC (Banks, 1908; Lenat, 1987; Moulton & Stewart, 1996;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 ND (Harris, Lago, & Carlson, 1980; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NE (Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NH (Morse & Blickle, 1953; Moulton & Stewart, 1996);  
 NJ (Smith, 1900; Smith, 1910; Moulton & Stewart, 1996);  
 NY (?Sibley, 1926; ?Betten, 1934; Moulton & Stewart, 1996;  
 Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Ross, 1944; MacLean & MacLean, 1980; Hury & Foote, 1983; MacLean & MacLean, 1984;  
 Usis & MacLean, 1986; Moulton & Stewart, 1996; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Ross, 1944; Bowles & Mathis, 1992; Moulton & Stewart, 1996;  
 Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006);  
 ON (Zhou, 2011);  
 OR (Anderson, 1976; Moulton & Stewart, 1996);  
 PA (Ross, 1944; Masteller & Flint, 1992; Moulton & Stewart, 1996);  
 QC (Roy & Harper, 1979; Moulton & Stewart, 1996);  
 RI (Hunt, 2017);  
 SC (Morse, Chapin, Herlong, & Harvey, 1980; Moulton & Stewart, 1996; Zhou, 2011);  
 SD (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 TN (Ross, 1944; Edwards, 1955; Edwards, 1966; Etnier & Schuster, 1979;  
 Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998;  
 Etnier, Bauer, & Zirkle, 2006);  
 TX (Banks, 1914; Ross, 1944; Edwards & Arnold, 1961; Cloud & Stewart, 1974;  
 Moulton & Stewart, 1996; Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997;  
 Bowles, Tiemann, & Easley, 2007);  
 VA (Banks, 1907; Parker & Voshell, 1981; Hoffman & Parker, 1997; Moulton & Stewart, 1996;  
 Flint, Hoffman, & Parker, 2008; Flint, 2011);  
 VT (Wimmer, 1979; Moulton & Stewart, 1996);  
 WI (Ross, 1944; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
 Hilsenhoff, 1995; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Glover & Tarter, 1990; Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016).  
 Ceraclea mentiea (Walker, 1852), Leptocerus, ON;  
 Leptocerus vanus Betten, 1934, NY (Betten & Mosely, 1940);  
 male genitalia (Morse, 1975; Houghton, 2012);  
 larva, pupa, case (Resh, 1976);  
 larval head & thorax (Resh, 1979);  
 north central and northeastern North America (Morse, 1975);  
 AL (Harris & Lago, 1990; Harris, 1990;  
 Harris, O'Neil, & Lago, 1991);

DC (Banks, 1904; Betten, 1934);  
 IL (Ross, 1944; Resh, 1976;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MI (Davis, Hudson, & Armitage, 1991;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018);  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Ruiter, 1996; Houghton, Holzenthal, Monson, & MacLean, 2001;  
     Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Lenat & Penrose, 1987; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Morse & Blickle, 1953);  
 NJ (Smith, 1900; Smith, 1910);  
 NY (Betten, 1934; Ross, 1944; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 ON (Walker, 1852; Ross, 1944; Munroe, 1951);  
 PA (Masteller & Flint, 1992);  
 QC (Roy & Harper, 1979);  
 VA (Harris, O'Neil, & Lago, 1991; not in VA according to Flint, Hoffman, & Parker, 2008);  
 WI (Ross, 1944; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hilsenhoff, 1995;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).

*Ceraclea neffi* (Resh, 1974), Athripsodes, VA;  
 larva, pupa, case (Resh, 1976);  
 AL (Harris & Lago, 1990; Harris, 1990;  
     Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton, Schuster, & DuBois, 1983;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1974; Resh, 1975; Resh, 1976; Morse, 1975;  
     Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MI (Davis, Hudson, & Armitage, 1991;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Lager, Johnson, Williams, & McCullough, 1979, doubtful identification according to  
     Houghton, Holzenthal, Monson, & MacLean, 2001;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 OH (Huryn & Foote, 1981, misidentification, Huryn & Foote, 1983;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 TN (Etnier & Schuster, 1979; Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Resh, 1974; Morse, 1975; Resh, 1976; Parker & Voshell, 1981;  
     Flint, Hoffman, & Parker, 2008);  
 WV (Glover & Tarter, 1990; Tarter, 1990; Tarter & Floyd, 2016).

*Ceraclea nepha* (Ross, 1944), Athripsodes, IL;  
 male genitalia (Morse, 1975; Morse & Wallace, 1976);  
 central North America (Morse, 1975);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris et al, 1983; Harris, Lago, & O'Neil, 1984; Harris, 1987; Harris & Lago, 1990;  
     Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996;  
     Hicks & Haynes, 2000a; Hicks & Haynes, 2000b; Harris & O'Neil, 2015);  
 AR (Unzicker, Aggus, & Warren, 1970; Bowles & Mathis, 1989; Moulton & Stewart, 1996);  
 DE (Lake, 1984; Moulton & Stewart, 1996);  
 FL (Harris, Lago, & Scheiring, 1982; Gordon, 1984;  
     Pescador, Rasmussen, & Harris, 1995, 2004; Moulton & Stewart, 1996;  
     Rasmussen, 2004; Denson, Rasmussen, & Harris, 2016);

- GA (Resh, 1976; Moulton & Stewart, 1996);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1944; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton, Schuster, & DuBois, 1983; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Floyd & Schuster, 1990; Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006;  
     Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MI (Leonard & Leonard, 1949; Ellis, 1962;  
     Moulton & Stewart, 1996; considered doubtful according to  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022  
 MN (Etnier, 1965; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Moulton & Stewart, 1996; Ferro & Sites, 2007;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996);  
 NC (Morse, Hamilton, & Hoffman, 1989; Moulton & Stewart, 1996;  
     Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 OH (Bolton, Macy, DeWalt, & Jacobus, 2019;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Ross, 1944; Bowles & Mathis, 1992; Moulton & Stewart, 1996);  
 SC (Morse, Hamilton, & Hoffman, 1989; Moulton & Stewart, 1996;  
     Floyd, Morse, & Harris, 1997);  
 TN (Edwards, 1956; Edwards, 1966; Etnier & Schuster, 1979; Moulton & Stewart, 1996;  
     Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005;  
     Etnier, Bauer, & Zirkle, 2006; Zhou, 2011);  
 TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);  
 VA (Hoffman & Parker, 1997; Flint, Hoffman, & Parker, 2008; Zhou, 2011);  
 WI (Hilsenhoff, 1975;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Ceraclea nigronervosa* (Retzius, 1783), Phryganea, possibly Sweden;  
 larva (Lepneva, 1966/71, as "Athripsodes fulvus," Wallace, 1978);  
 male genitalia (Morse, 1975);  
 larval antenna (Resh, Morse & Wallace, 1976);  
 larva, case (Resh, 1976);  
 larva, pupa, case (Resh, 1976; Solem & Resh, 1981);  
 wings, male & female genitalia (Tobias & Tobias, 1981);  
 male & female genitalia (Wiggins & Parker, 1997);  
 photos of larva & case, head, abdomen posterior (Ruitter, Boyle, & Zhou, 2013);  
 northwestern North America (Morse, 1965);  
 AK (Webb, Cole, & Simmons, 2022);  
 BC (Nimmo & Scudder, 1978);  
 MB (Ruitter, Boyle, & Zhou, 2013; Chatila-Amos, 2021);  
 NT (Cordero, Sánchez-Ramírez, & Currie, 2017);  
 WY (Resh, 1976);  
 YT (Wiggins & Parker, 1997);  
 Sweden (Retzius, 1783, possibly);  
 northern Palearctic Region;  
 Europe (Tobias & Tobias, 1981).
- Ceraclea ophioderus* (Ross, 1938), Athripsodes, IL;  
 male genitalia (Morse, 1975);  
 central and southeastern North America (Morse, 1975);  
 NC/SC (Unzicker, Resh, & Morse, 1982);

- AL (Harris, Lago, & O'Neil, 1984; Harris, 1987; Harris & Lago, 1990; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Hicks & Haynes, 2000b; Harris & O'Neil, 2015);
- AR (Moulton & Stewart, 1996);
- FL (Gordon, 1984; Pescador, Rasmussen, & Harris, 1995, 2004; Moulton & Stewart, 1996; Rasmussen, 2004; Denson, Rasmussen, & Harris, 2016);
- IL (Ross, 1938; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- KY (Houp, 1999; Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- LA (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996);
- MO (Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MS (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996);
- NC (Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);
- NY (Tozer, 2018);
- TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);
- VA (Hoffman & Parker, 1997; Flint, Hoffman, & Parker, 2008);
- WI (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- WV (Glover & Tarter, 1990; Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016).
- Ceraclea protonepha* Morse and Ross, in Morse, 1975, VA;  
 larva, case (Resh, 1976);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris et al, 1983; Harris, Lago, & O'Neil, 1984; Harris, 1987; Harris & Lago, 1990; Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Hicks & Haynes, 2000a; Hicks & Haynes, 2000b; Harris & O'Neil, 2015);  
 DE (Lake, 1984);  
 FL (Morse, 1975; Harris, Lago, & Scheiring, 1982; Gordon, 1984; Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004; Denson, Rasmussen, & Harris, 2016);  
 GA (Morse, 1975);  
 KS (Hamilton, Schuster, & DuBois, 1983; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Floyd & Schuster, 1990; Etnier, Bauer, & Zirkle, 2006; Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Harris, O'Neil, & Lago, 1991);  
 MS (Holzenthal, Harris, & Lago, 1982);  
 NC (Morse, Hamilton, & Hoffman, 1989; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 OH (Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 SC (Morse, Chapin, Herlong, & Harvey, 1980; Morse, Hamilton, & Hoffman, 1989; Floyd & Morse, 1993; Floyd, Morse, & Harris, 1997);  
 TN (Etnier & Schuster, 1979; Etnier, Baxter, Fraley, & Parker, 1998; Etnier, Bauer, & Zirkle, 2006);  
 TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);  
 VA (Morse, 1975; Hoffman & Parker, 1997; Flint, Hoffman, & Parker, 2008).
- Ceraclea punctata* (Banks, 1894), *Mystacides*, KS;  
 male genitalia (Morse, 1975);  
 larva, pupa, case (Resh, 1976);  
 central & northeastern North America (Morse, 1975);  
 AR (Ross, 1944; Unzicker, Aggus & Warren, 1970; Bowles & Mathis, 1989; Moulton & Stewart, 1996);



DC (Banks, 1904; Moulton & Stewart, 1996);  
 IL (Ross, 1944; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Banks, 1894; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1976; Moulton & Stewart, 1996;  
     Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MD (Banks, 1904; Moulton & Stewart, 1996);  
 ME (Ross, 1944; Blickle & Morse, 1966; Bilger, 1986; Moulton & Stewart, 1996);  
 MI (Leonard & Leonard, 1949; Moulton & Stewart, 1996; Yanoviak & McCafferty, 1996;  
     considered doubtful according to  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018);  
 MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Morse & Blickle, 1953; Moulton & Stewart, 1996);  
 NY (Betten, 1934; Bilger, 1986; Moulton & Stewart, 1996;  
     Myers, Kondratieff, Mihuc, & Ruitter, 2011; Tozer, 2018);  
 OH (Resh, 1976; Moulton & Stewart, 1996; Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Bowles & Mathis, 1992; Moulton & Stewart, 1996;  
     Zuellig, Kondratieff, Schmidt, Durfee, Ruitter, & Prather, 2006);  
 PA (Masteller & Flint, 1992);  
 QC (Nimmo, 1966; Corbet, Schmid, & Augustin, 1966;  
     Roy & Harper, 1979; Moulton & Stewart, 1996);  
 TN (Edwards, 1955; Edwards, 1956; Edwards, 1966; Etnier & Schuster, 1979;  
     Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Parker & Voshell, 1981; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2008;  
     Flint, 2011);  
 WI (Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hilsenhoff, 1995;  
     Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Tarter & Floyd, 2016).  
*Ceraclea resurgens* (Walker, 1852), *Leptocerus*, ON;  
*Leptocerus aspinosus* Betten, 1934, IL, NY (Milne, 1936);  
*Leptocerus variegatus* Hagen, 1861, IL (Ross, 1938);  
 larval case (Edwards, 1966);  
 male genitalia (Morse, 1975; Houghton, 2012);  
 photos of larvae in cases (Anderson, 1976);  
 larva, pupa, case (Resh, 1976);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 northern transcontinental North America (Morse, 1975);  
 AL (Harris, Lago, & O'Neil, 1984; Harris & Lago, 1990; Frazer, Harris, & Ward, 1991;  
     Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 BC (Ross & Spencer, 1952; Moulton & Stewart, 1996);  
 CO (Herrmann, 1988; Ruitter, 1990; Moulton & Stewart, 1996);  
 CT (Harris, O'Neil, & Lago, 1991; Nelson & Downs, 1995; Moulton & Stewart, 1996);  
 DC (Banks, 1892; Moulton & Stewart, 1996);  
 FL (Gordon, 1984; Pescador, Rasmussen, & Harris, 1995, 2004;  
     Moulton & Stewart, 1996; Rasmussen, 2004; Denson, Rasmussen, & Harris, 2016);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Hagen, 1861; Banks, 1892; Betten, 1934; Ross, 1941; Moulton & Stewart, 1996);

- Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Resh, 1976; Floyd & Schuster, 1990;  
 Moulton & Stewart, 1996; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996);  
 MB (Neave, 1934; Flannagan & Flannagan, 1982; Moulton & Stewart, 1996;  
 Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruiter, Boyle, & Zhou, 2013);  
 ME (Ross, 1941; Blickle & Morse, 1966; Moulton & Stewart, 1996; Huryn & Harris, 2000);  
 MI (Ross, 1944; Ellis, 1962; Davis, Hudson, & Armitage, 1991; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton & Lardner, 2020; Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Ross, 1944; Etnier, 1965; Lager, Johnson, Williams, & McCullough, 1979; MacLean, 1995;  
 Moulton & Stewart, 1996; Monson, 1997;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Roemhild, 1982; Moulton & Stewart, 1996);  
 NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 ND (Harris, Lago, & Carlson, 1980; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NH (Morse & Blickle, 1953; Moulton & Stewart, 1996);  
 NJ (Smith, 1900; Smith, 1910; Moulton & Stewart, 1996);  
 NY (Betten, 1926; Betten, 1934; McCabe, 1986; Moulton & Stewart, 1996;  
 Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Marshall, 1939; Huryn & Foote, 1983; Garono & MacLean, 1988;  
 Moulton & Stewart, 1996; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Ross, 1944; Bowles & Mathis, 1992; Moulton & Stewart, 1996);  
 ON (Walker, 1852; Betten, 1934; Ross, 1944; Munroe, 1951;  
 Resh, 1976; Harper, 1989; Moulton & Stewart, 1996);  
 OR (Anderson, 1976; Resh, 1976; Moulton & Stewart, 1996);  
 PA (Masteller & Flint, 1979; Swegman, Walker, & Sykora, 1981;  
 Masteller & Flint, 1992; Moulton & Stewart, 1996);  
 QC (Ross, 1944; Robert, 1958; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1975;  
 Roy & Harper, 1979; Williams & Williams, 1979; Harper, 1989;  
 Moulton & Stewart, 1996);  
 SC (Morse, Chapin, Herlong, & Harvey, 1980; Moulton & Stewart, 1996);  
 SK (Milne, 1943; Moulton & Stewart, 1996);  
 TN (Edwards, 1966; Etnier & Schuster, 1979;  
 Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2008;  
 Flint, 2011);  
 WI (Ross, 1944; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
 Resh, 1976; Hilsenhoff, 1995; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WY (Ruiter, 1996);  
 YT (Wiggins & Parker, 1997).  
 Ceraclea ruthae (Flint, 1965), Athripsodes, MA;  
 male genitalia (Morse, 1975; Marshall & Larson, 1982);  
 northeastern North America [but not MI record of  
 Leonard and Leonard, 1949] (Morse, 1975);  
 MA (Flint, 1965; Neves, 1979);  
 NF (Marshall & Larson, 1982);

- NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 PA (Masteller & Flint, 1979; Masteller & Flint, 1992);  
 QC (Roy & Harper, 1979);  
 VA (Flint, Hoffman, & Parker, 2008);  
 VT (Wimmer, 1979).
- Ceraclea slossonae* (Banks, 1938), Athripsodes, FL;  
 Athripsodes daggyi Denning, 1948, GA (Flint, 1966);  
 male genitalia (Morse, 1975);  
 larva, pupa, case (Resh, 1976);  
 larval head & thorax (Resh, 1979);  
 central and southeastern North America (Morse, 1975);  
 CT (Nelson & Downs, 1995);  
 FL (Banks, 1938; Gordon, 1984; Pescador, Rasmussen, & Harris, 1995, 2004);  
 GA (Denning, 1948);  
 IA (Blinn, Ruiter, & Flint, 2009;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MD (Flint, 2008);  
 MS (Holzenthal, Harris, & Lago, 1982);  
 NC (Brimley, 1938; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 PA (Banks, 1938; Masteller & Flint, 1992);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979);  
 VA (Resh, 1976; Resh, 1979; Parker & Voshell, 1981;  
     Hoffman & Parker, 1997; Flint, Hoffman, & Parker, 2008);  
 WV (Glover & Tarter, 1990; Tarter, 1990; Tarter & Floyd, 2016).
- Ceraclea spongillovorax* (Resh, 1974), Athripsodes, IL;  
 larva, pupa, case (Resh, 1976);  
 larval head, pupal anal rods, male genitalia (Resh, 1976);  
 MD/VA (Flint & Butler, 1983);  
 AL (Resh, 1976);  
 FL (Gordon, 1984; Pescador, Rasmussen, & Harris, 1995;  
     doubtful or erroneous according to Pescador, Rasmussen, & Harris, 2004);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Resh, 1976; Morse, 1975;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton, Schuster, & DuBois, 1983;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Holzenthal, Harris, & Lago, 1982);  
 MS (Holzenthal, Harris, & Lago, 1982);  
 VA (Flint, Hoffman, & Parker, 2008; Flint, 2011).
- Ceraclea submacula* (Walker, 1852), Leptocerus, Canada;  
 male genitalia (Morse, 1975);  
 larva, pupa, case (Resh, 1976);  
 larval gills (Schmid, 1980);  
 Canada (Walker, 1852);  
 Great Lakes region (Morse, 1975);  
 NY (Betten, 1926; Betten, 1934);  
 OH (Marshall, 1939; Ross, 1944; Hury & Flint, 1983; Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Munroe, 1951; Resh, 1976);  
 QC (Nimmo, 1966; Corbet, Schmid, & Augustin, 1966);

Roy & Harper, 1975; Roy & Harper, 1979; Resh, 1976);  
 TN (Edwards, 1966; Etnier & Schuster, 1979; Etnier, Baxter, Fraley, & Parker, 1998);  
 VT (Wimmer, 1979).

*Ceraclea tarsipunctata* (Vorhies, 1909), *Leptocerus*, WI;  
 male genitalia (Ross, 1944; Houghton, 2012);  
 internal female genitalia (Unzicker, 1968);  
 adult maxillary palp, pro- and mesonota, wings, male & female genitalia (Morse, 1975);  
 adult maxillary palp (Morse & Wallace, 1976);  
 larva, pupa, case (Resh, 1976);  
 GA/SC (Hudson & Nichols, 1986);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 northern and eastern North America (Morse, 1975);  
 AL (Harris et al, 1983; Harris, Lago, & O'Neil, 1984;  
 Harris, 1987; Harris & Lago, 1990;  
 Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991;  
 Moulton & Stewart, 1996; Hicks & Haynes, 2000a;  
 Hicks & Haynes, 2000b; Harris & O'Neil, 2015);  
 AR (Ross, 1944; Unzicker, Aggus & Warren, 1970; Bowles & Mathis, 1989;  
 Moulton & Stewart, 1996; Bowles, Cheri, Usrey, & Williams, 2020);  
 CA (Denning, 1956; Moulton & Stewart, 1996; Resh & Mendez, 2022);  
 CO (Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 CT (Harris, O'Neil, & Lago, 1991; Nelson & Downs, 1995; Moulton & Stewart, 1996);  
 DE (Lake, 1984);  
 FL (Harris, Lago, & Scheiring, 1982; Gordon, 1984; Pescador, Rasmussen, & Harris, 1995, 2004;  
 Moulton & Stewart, 1996; Rasmussen, 2004; Zhou, 2011;  
 Denson, Rasmussen, & Harris, 2016);  
 GA (Ross, 1944; Moulton & Stewart, 1996; Zhou, 2011);  
 IA (Blinn, Ruiter, & Flint, 2009;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ID (Newell & Minshall, 1977; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 IL (Ross, 1944; Resh, 1976; Moulton & Stewart, 1996; Zhou, 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1944; Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
 DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton, Schuster, & DuBois, 1983; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Ross, 1944; Resh, 1975; Resh, 1976; Haag, Resh, & Neff, 1984;  
 Floyd & Schuster, 1990; Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996);  
 MA (Neves, 1979; Bilger, 1986; Moulton & Stewart, 1996; Whitmore 2008);  
 MB (Neave, 1934; Flannagan & Flannagan, 1982; Moulton & Stewart, 1996);  
 ME (Ross, 1944; Blicke & Morse, 1966; Moulton & Stewart, 1996; Huryn & Harris, 2000);  
 MI (Leonard & Leonard, 1949; Ellis, 1962;  
 Davis, Hudson, & Armitage, 1991; Moulton & Stewart, 1996;  
 Houghton, Brandin, & Brakel, 2011; Wright, Pytel, & Houghton, 2013; Houghton, 2016;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton & Lardner, 2020; Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Ross, 1944; Etnier, 1965; Harris, O'Neil, & Lago, 1991; MacLean, 1995;  
 Moulton & Stewart, 1996; Ruiter, 1996; Monson, 1997;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton & Holzenthal, 2010;  
 Zhou, 2011; Houghton, 2012);

- Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MO (Ross, 1944; Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007;  
Bowles, 2020;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MS (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996);  
MT (Roemhild, 1982; Moulton & Stewart, 1996);  
NB (Ross, 1944; Moulton & Stewart, 1996);  
NC (Lenat, 1983; Morse, Hamilton, & Hoffman, 1989;  
Moulton & Stewart, 1996; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
ND (Harris, Lago, & Carlson, 1980; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NH (Morse & Blickle, 1953; Moulton & Stewart, 1996);  
NV (Ruiter, Baumann, & Flint, 2014);  
NY (Betten, 1926; Moulton & Stewart, 1996; Zhou, 2011;  
Myers, Kondratieff, Mihuc, & Ruiter, 2011; Tozer, 2018);  
OH (Marshall, 1939; Petersen & Foote, 1980; Hurn & Foote, 1983; MacLean & MacLean, 1984;  
Usis & MacLean, 1986; Garono & MacLean, 1988; Moulton & Stewart, 1996;  
Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
OK (Bowles & Mathis, 1992; Moulton & Stewart, 1996);  
ON (Ross, 1944; Munroe, 1951; Moulton & Stewart, 1996; Zhou, 2011);  
OR (Anderson, 1976; Moulton & Stewart, 1996);  
PA (Ross, 1941; Swegman, Walker, & Sykora, 1981;  
Masteller & Flint, 1992; Moulton & Stewart, 1996);  
QC (Nimmo, 1966; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1975;  
Roy & Harper, 1979; Moulton & Stewart, 1996);  
SC (Morse, Chapin, Herlong, & Harvey, 1980; Morse, Hamilton, & Hoffman, 1989;  
Moulton & Stewart, 1996; Floyd, Morse, & Harris, 1997; Zhou, 2011);  
SD (Ross, 1944; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
SK (Milne, 1943; Moulton & Stewart, 1996);  
TN (Edwards, 1955; 1966; Etnier & Schuster, 1979; Moulton & Stewart, 1996;  
Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005;  
DeWalt, Jacobus, & McCafferty, 2007; Etnier, Bauer, & Zirkle, 2006; Zhou, 2011);  
TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);  
VA (Parker & Voshell, 1981; Hoffman & Parker, 1997; Moulton & Stewart, 1996;  
Flint, Hoffman, & Parker, 2008; Flint, 2011);  
VT (Wimmer, 1979; Bilger, 1986; Moulton & Stewart, 1996);  
WA (Blinn & Ruiter, 2013);  
WI (Vorhies, 1909; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973;  
Hilsenhoff, 1975; Resh, 1976; Steven & Hilsenhoff, 1984; Lillie & Hilsenhoff, 1992;  
Hilsenhoff, 1995; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
WV (Glover & Tarter, 1990; Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016);  
WY (Ruiter & Lavigne, 1985; Moulton & Stewart, 1996).
- Ceraclea transversa* (Hagen, 1861), *Leptocerus*, DC;  
*Leptocerus angustus* Banks, 1914, ON (Morse, 1975);  
larva (Ross, 1944, as sp. a; Roback, 1968);  
male & female genitalia (Ross, 1944);  
adult head and mesopleuron and coxa, male genitalia (Morse, 1975);  
adult head (Morse & Wallace, 1976);  
larva, pupa, case (Resh, 1976);  
larval head, mesonotum, case (Resh, Morse, & Wallace, 1976);  
male genitalia (Marshall & Larson, 1982);  
male genitalia & photo of adult (Houghton, 2012);

central & eastern North America (Morse, 1975);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris et al, 1983; Harris, Lago, & O'Neil, 1984; Harris, 1987; Harris & Lago, 1990;  
     Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996;  
     Hicks & Haynes, 2000a; Hicks & Haynes, 2000b; Harris & O'Neil, 2015);  
 AR (Bowles & Mathis, 1989; Moulton & Stewart, 1996;  
     Bowles, Cheri, Usrey, & Williams, 2020);  
 CT (Nelson, 1987; Nelson & Downs, 1995; Moulton & Stewart, 1996);  
 DC (Hagen, 1861; Moulton & Stewart, 1996);  
 DE (Lake, 1984; Moulton & Stewart, 1996);  
 FL (Gordon, 1984; Pescador, Rasmussen, & Harris, 1995, 2004; Moulton & Stewart, 1996;  
     Rasmussen, 2004; Zhou, 2011; Denson, Rasmussen, & Harris, 2016);  
 GA (Zhou, 2011);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ID (Newell & Minshall, 1977; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 IL (Ross, 1944; Resh, 1976; Moulton & Stewart, 1996; Zhou, 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton, Schuster, & DuBois, 1983; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Resh, 1976; Haag, Resh, & Neff, 1984; Floyd & Schuster, 1990;  
     Moulton & Stewart, 1996; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 MA (Neves, 1979; Moulton & Stewart, 1996);  
 MB (Flannagan, 1978; Flannagan & Flannagan, 1982; Moulton & Stewart, 1996; Zhou, 2011);  
 MD (Flint, 2008);  
 ME (Ross, 1944; Blicke & Morse, 1966; Bilger, 1986;  
     Moulton & Stewart, 1996; Huryn & Harris, 2000);  
 MI (Ross, 1944; Resh, 1976; Davis, Hudson, & Armitage, 1991;  
     Moulton & Stewart, 1996; Houghton, Brandin, & Brakel, 2011; Houghton, 2016;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
     Houghton, 2022;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Ross, 1944; Etnier, 1965; Resh, 1976; MacLean, 1995; Moulton & Stewart, 1996;  
     Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2004a;  
     Houghton & Holzenthal, 2010; Zhou, 2011; Houghton, 2012;  
     Houghton & Lardner, 2020;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Resh, 1976; Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007;  
     Bowles, 2020;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996);  
 MT (Roemhild, 1982; Moulton & Stewart, 1996);  
 NC (Wray, 1950; Lenat, 1987; Moulton & Stewart, 1996; DeWalt, Jacobus, & McCafferty, 2007;  
     Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010; Zhou, 2011);  
 ND (Harris, Lago, & Carlson, 1980; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NE (Harris, Kondratieff, & Boyle, 2000;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Marshall & Larson, 1982; Moulton & Stewart, 1996);  
 NH (Morse & Blicke, 1953; Moulton & Stewart, 1996);  
 NS (Zhou, 2011);  
 NV (Ruitter, Baumann, & Flint, 2014);

NY (Ross, 1944; Moulton & Stewart, 1996; Zhou, 2011;  
     Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Marshall, 1939; Huryñ & Foote, 1983; Usis & MacLean, 1986; Garono & MacLean, 1988;  
     Moulton & Stewart, 1996; Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Ross, 1944; Bowles & Mathis, 1992; Moulton & Stewart, 1996);  
 ON (Banks, 1914; Munroe, 1951; Harper, 1989; Moulton & Stewart, 1996);  
 PA (Ross, 1944; Swegman, Walker, & Sykora, 1981; Masteller & Flint, 1992;  
     Moulton & Stewart, 1996);  
 QC (Ross, 1944; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1975; Roy & Harper, 1979;  
     Williams & Williams, 1979; Harper, 1989; Moulton & Stewart, 1996);  
 SC (Morse, Chapin, Herlong, & Harvey, 1980; Moulton & Stewart, 1996; Zhou, 2011);  
 TN (Edwards, 1966; Resh, 1976; Etnier & Schuster, 1979; Moulton & Stewart, 1996;  
     Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005;  
     Etnier, Bauer, & Zirkle, 2006; DeWalt, Jacobus, & McCafferty, 2007; Zhou, 2011);  
 TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);  
 VA (Parker & Voshell, 1981; Hoffman & Parker, 1997; Moulton & Stewart, 1996;  
     Flint, Hoffman, & Parker, 2008; Zhou, 2011; Flint, 2011);  
 VT (Bilger, 1986; Moulton & Stewart, 1996);  
 WI (Ross, 1944; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
     Resh, 1976; Steven & Hilsenhoff, 1984; Hilsenhoff, 1995; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Glover & Tarter, 1990; Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016).  
*Ceraclea uvalo* (Ross, 1938), Athripsodes, PA;  
     male genitalia (Morse, 1975);  
     central eastern North America (Morse, 1975);  
     MD (Flint, 2008);  
     NY (Ross, 1944);  
     PA (Ross, 1938);  
     QC (Nimmo, 1966; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1979)  
     VA (Flint, Hoffman, & Parker, 2008; Flint, 2011).  
*Ceraclea vertreesi* (Denning, 1966), Athripsodes, OR;  
     male genitalia (Morse, 1975);  
     BC (Morse, 1975);  
     MN (Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001;  
         doubtful, specimens likely to be *Ceraclea resurgens* according to Houghton, 2012);  
     OR (Denning, 1966; Morse, 1975; Anderson, 1976).  
*Ceraclea wetzeli* (Ross, 1941), Athripsodes, PA;  
     male genitalia (Morse, 1975; Houghton, 2012);  
     northeastern North America (Morse, 1975);  
     ME (Mingo & Gibbs, 1980; Bilger, 1986; Huryñ & Harris, 2000);  
     MI (Leonard & Leonard, 1949; Houghton, 2016;  
         Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
         Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
     MN (Etnier, 1968; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
         Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
     NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
     ON (Ross, 1941);  
     PA (Ross, 1941; Masteller & Flint, 1992);  
     QC (Robert, 1958);  
     WI (Ross, 1941; Hilsenhoff, 1995;  
         Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
     WV (Glover & Tarter, 1990; Tarter, 1990; Tarter & Floyd, 2016).

*Leptocerus americanus* (Banks, 1899), Setodes, DC;

larva, case (Wiggins, 1977);  
 wings, male & female genitalia (Schmid, 1980);  
 male genitalia & photo of adult (Houghton, 2012);  
 MN to ME to TX to TN (Wiggins, 1977);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris & Lago, 1990; Harris, O'Neil, & Lago, 1991;  
     Moulton & Stewart, 1996; Hicks & Haynes, 2000a; Harris & O'Neil, 2015);  
 AR (Unzicker, Aggus & Warren, 1970; Bowles & Mathis, 1989; Moulton & Stewart, 1996;  
     Etnier, 2010; Bowles, Cheri, Usrey, & Williams, 2020);  
 CO (Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 CT (Banks, 1907; Bilger, 1986; Nelson, 1987; Nelson & Downs, 1995;  
     Moulton & Stewart, 1996);  
 DC (Banks, 1899; Moulton & Stewart, 1996);  
 DE (Lake, 1984; Moulton & Stewart, 1996);  
 FL (Banks, 1905; Gordon, 1984; Pescador, Rasmussen, & Harris, 1995, 2004;  
     Moulton & Stewart, 1996; Rasmussen, 2004; Zhou, 2011;  
     Denson, Rasmussen, & Harris, 2016);  
 GA (Zhou, 2011);  
 IA (Blinn, Ruiter, & Flint, 2009;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1944; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Betten, 1934; Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
     DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton, Schuster, & DuBois, 1983; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Etnier, Bauer, & Zirkle, 2006; Zhou, 2011;  
     Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996);  
 MA (Neves, 1979; Bilger, 1986; Moulton & Stewart, 1996);  
 ME (Blickle & Morse, 1966; Wiggins, 1977; Bilger, 1986; Moulton & Stewart, 1996);  
 MI (Betten, 1934; Leonard & Leonard, 1949; Ellis, 1962;  
     Moulton & Stewart, 1996; Houghton, Brandin, & Brakel, 2011;  
     Wright, Pytel, & Houghton, 2013; Brakel, Wassink, & Houghton, 2015; Houghton, 2016;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton & Lardner, 2020; Houghton, 2022;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Wiggins, 1977; Moulton & Stewart, 1996; Ruiter, 1996; Monson, 1997;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton & Holzenthal, 2010;  
     Zhou, 2011; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Ferro & Sites, 2007;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996);  
 NC (Moulton & Stewart, 1996);  
 ND (Harris, Lago, & Carlson, 1980; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NE (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NH (Morse & Blickle, 1953; Moulton & Stewart, 1996);  
 NY (Lloyd, 1921; Sibley, 1926; Wiggins, 1977; Moulton & Stewart, 1996;  
     Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (McElravy, Arsuffi, & Foote, 1977; Petersen & Foote, 1980; Huryn & Foote, 1983;  
     MacLean & MacLean, 1984; Usis & MacLean, 1986; Garono & MacLean, 1988);



Moulton & Stewart, 1996; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Bowles & Mathis, 1992; Moulton & Stewart, 1996;  
 Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006);  
 ON (Rawson, 1930; Judd, 1949; Crowell, 1967; Flannagan & MacDonald, 1987;  
 Moulton & Stewart, 1996; Zhou, 2011);  
 PA (Ross, 1941; Swegman, Walker, & Sykora, 1981; Masteller & Flint, 1984;  
 Masteller & Flint, 1992; Moulton & Stewart, 1996);  
 QC (Nimmo, 1966; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1979;  
 Moulton & Stewart, 1996; Zhou, 2011);  
 SC (Morse, Chapin, Herlong, & Harvey, 1980; Moulton & Stewart, 1996);  
 SD (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 TN (Edwards, 1955; 1966; Wiggins, 1977; Etnier & Schuster, 1979;  
 Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998;  
 DeWalt & Heinold, 2005; Etnier, Bauer, & Zirkle, 2006);  
 TX (Edwards, 1973; Wiggins, 1977; Moulton & Stewart, 1996;  
 Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);  
 VA (Banks, 1907; Parker & Voshell, 1981; Moulton & Stewart, 1996;  
 Flint, Hoffman, & Parker, 2008);  
 VT (Wimmer, 1979);  
 WI (Vorhies, 1909; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
 Steven & Hilsenhoff, 1984; Hilsenhoff, 1995; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Glover & Tarter, 1990; Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016).

*Mystacides alafimbriatus* Hill-Griffin, 1912, OR;  
 larval head, pro & mesonota, male & female genitalia (Yamamoto & Wiggins, 1964);  
 AK (Yamamoto & Wiggins, 1964; Vineyard, 1982);  
 BC (Schmid & Guppy, 1952; Hardy, 1955; Ross & Spencer, 1952; Yamamoto & Wiggins, 1964;  
 Winterbourn, 1971; Nimmo & Scudder, 1978);  
 CA (Denning, 1956; Yamamoto & Wiggins, 1964; McElravy & Resh, 1987; Givens, 2014;  
 Resh & Mendez, 2022);  
 CO (Dodds & Hisaw, 1925);  
 ID (Yamamoto & Wiggins, 1964; Newell & Minshall, 1977);  
 MT (Yamamoto & Wiggins, 1964; Newell, 1970; Newell & Potter, 1973;  
 Roemhild, 1982);  
 NC (Lenat, 1983 [doubtful record]);  
 NY (Tozer, 2018);  
 OR (Hill-Griffin, 1912; Yamamoto & Wiggins, 1964; Anderson, 1976;  
 Anderson, Cooper, & Denning, 1982);  
 UT (Baumann & Unzicker, 1981);  
 WA (Ross, 1941; Yamamoto & Wiggins, 1964; Sherk, 1986;  
 Anderson & Wisseman, 1987; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005;  
 Zack, Ruiter, Strenge, & Landolt, 2006; Blinn & Ruiter, 2013);  
 WY (Yamamoto & Wiggins, 1964; Ruiter & Lavigne, 1985;  
 Ruiter, 1996);  
 YT (Yamamoto & Wiggins, 1964; Nimmo & Wickstrom, 1984;  
 Wiggins & Parker, 1997);  
 Mexico (Yamamoto & Wiggins, 1964).  
*Mystacides interjectus* (Banks, 1914), *Oecetina longicornis*, ON;  
*Mystacides interjecta canadensis* Banks, 1924, QC (Yamamoto & Ross, 1966);  
*Phryganea longicornis* auctt nec Linnaeus, 1758, (Yamamoto & Ross, 1966);  
 larval head, pro & mesonota, gill arrangement, male & female  
 genitalia (Yamamoto & Wiggins, 1964);  
 larva, case (Lepneva, 1966/71, as "*Mystacides sibirica*");

male genitalia (Wiggins & Parker, 1997);  
 male genitalia & photo of adult (Houghton, 2012);  
 photos of larva & case, head (Ruiter, Boyle, & Zhou, 2013);  
 Canada (Neave, 1929);  
 AB (Yamamoto & Wiggins, 1964; Richardson & Clifford, 1986;  
     Flannagan & MacDonald, 1987);  
 AK (Yamamoto & Wiggins, 1964; Flannagan & MacDonald, 1987);  
 BC (Yamamoto & Wiggins, 1964; Nimmo & Scudder, 1978; Flannagan & MacDonald, 1987);  
 CO (Dodds & Hisaw, 1925; Ross, 1944; Yamamoto & Wiggins, 1964;  
     Herrmann, Ruiter, & Unzicker, 1986; Ruiter, 1996;  
     Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
     Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Betten, 1934; Ross, 1944; Yamamoto & Wiggins, 1964;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Yamamoto & Wiggins, 1964; Waltz & McCafferty, 1983);  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022  
 MA (Yamamoto & Wiggins, 1964; Whitmore 2008);  
 MB (Yamamoto & Wiggins, 1964; Flannagan & Flannagan, 1982;  
     Flannagan & MacDonald, 1987; Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010;  
     Ruiter, Boyle, & Zhou, 2013; Chatila-Amos, 2021);  
 ME (Yamamoto & Wiggins, 1964; Blickle & Morse, 1966; Bilger, 1986);  
 MI (Moffet, 1943; Ross, 1944; Leonard & Leonard, 1949; Ellis, 1962;  
     Yamamoto & Wiggins, 1964; Davis, Hudson, & Armitage, 1991;  
     Houghton, Brandin, & Brakel, 2011; DeWalt & South, 2015; Houghton, 2016;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton & Lardner, 2020; Houghton, 2022;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Denning, 1937; Yamamoto & Wiggins, 1964; Etnier, 1965; Ruiter, 1996; Monson, 1997;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton & Holzenthal, 2010;  
     Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Yamamoto & Wiggins, 1964; Newell, 1970; Newell & Potter, 1973; Roemhild, 1982);  
 ND (Yamamoto & Wiggins, 1964; Harris, Lago, & Carlson, 1980;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NH (Morse & Blickle, 1953);  
 NT (Yamamoto & Wiggins, 1964; Nimmo, 1986; Flannagan & MacDonald, 1987);  
 NY (Betten, 1926; Betten, 1934; Ross, 1944; Yamamoto & Wiggins, 1964;  
     Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (McElravy, Arsuffi, & Foote, 1977; Hury & Foote, 1983; Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Banks, 1914; Ross, 1938; Ross, 1944; Yamamoto & Wiggins, 1964;  
     Flannagan & MacDonald, 1987);  
 PA (Ross, 1944; Yamamoto & Wiggins, 1964; Masteller & Flint, 1992);  
 QC (Banks, 1924; Ross, 1944; Yamamoto & Wiggins, 1964;  
     Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1975; Roy & Harper, 1979;  
     Flannagan & MacDonald, 1987; Harper, 1989);  
 SD (Yamamoto & Wiggins, 1964;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 SK (Yamamoto & Wiggins, 1964; Flannagan & MacDonald, 1987);  
 VT (Bilger, 1986);  
 WI (Ross, 1944; Yamamoto & Wiggins, 1964; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
     Hilsenhoff, 1995;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WY (Yamamoto & Wiggins, 1964; Ruiter & Lavigne, 1985);

YT (Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997);  
Altai, Baikal, Amur (Martynov, 1924);  
not northern Europe (Yamamoto & Ross, 1966);  
eastern Siberia, Maritime Territory, Amur region  
(Lepneva, 1966/71).

- Mystacides longicornis* (Linnaeus, 1758), Phryganea, Sweden;  
CO (Mousa, Nachappa, Ruitter, Givens, & Fairchild, 2022, erroneous, pers comm D. Givens).
- Mystacides sepulchralis* (Walker, 1852), Leptocerus, ON;  
larval habitus, head, pro & mesonota, pupa, case, male & female  
genitalia (Yamamoto & Wiggins, 1964);  
larva, case (Wiggins, 1977);  
wings, male & female genitalia (Schmid, 1980);  
female maxillary palp, mesotibia, male genitalia  
(Marshall & Larson, 1982);  
male genitalia & photo of adult (Houghton, 2012);  
GA/SC (Hudson & Nichols, 1986);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
AB (Yamamoto & Wiggins, 1964; Moulton & Stewart, 1996);  
AL (Harris et al, 1983; Harris, Lago, & O'Neil, 1984; Harris, 1987; Harris & Lago, 1990;  
Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991;  
Moulton & Stewart, 1996; Hicks & Haynes, 2000a);  
AK (Yamamoto & Wiggins, 1964; Moulton & Stewart, 1996; Kendrick & Huryn, 2014);  
AR (Ross, 1944; Unzicker, Aggus & Warren, 1970; Bowles & Mathis, 1989;  
Moulton & Stewart, 1996; Etnier, 2010; Bowles, Cheri, Usrey, & Williams, 2020);  
BC (Ross & Spencer, 1952; Yamamoto & Wiggins, 1964; Moulton & Stewart, 1996);  
CA (Denning, 1956; Moulton & Stewart, 1996; Givens, 2014; Resh & Mendez, 2022);  
CT (Yamamoto & Wiggins, 1964; Nelson & Downs, 1995; Moulton & Stewart, 1996);  
DE (Lake, 1984; Moulton & Stewart, 1996);  
GA (Ross, 1944; Yamamoto & Wiggins, 1964; Frazer, Harris, & Ward, 1991;  
Moulton & Stewart, 1996; Zhou, 2011);  
IL (Betten, 1934; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
IN (Betten, 1934; Yamamoto & Wiggins, 1964; Waltz & McCafferty, 1983;  
Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
KY (Resh, 1975; Floyd & Schuster, 1990; Moulton & Stewart, 1996;  
Etnier, Bauer, & Zirkle, 2006; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MA (Yamamoto & Wiggins, 1964; Neves, 1979; Moulton & Stewart, 1996; Whitmore 2008);  
MB (Neave, 1943; Yamamoto & Wiggins, 1964; Flannagan & Lawler, 1972; Wiggins, 1977;  
Flannagan & Flannagan, 1982; Resh, Rosenberg, & Wiens, 1983;  
Moulton & Stewart, 1996; Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010;  
Zhou, 2011; Ruitter, Boyle, & Zhou, 2013);  
ME (Ulmer, 1906; Procter, 1946; Yamamoto & Wiggins, 1964;  
Blickle & Morse, 1966; Mingo & Gibbs, 1979;  
Mingo & Gibbs, 1980; Bilger, 1986; Moulton & Stewart, 1996; Huryn & Harris, 2000);  
MI (Ross, 1944; Ellis, 1962; Yamamoto & Wiggins, 1964;  
Davis, Hudson, & Armitage, 1991; Moulton & Stewart, 1996;  
Houghton, Brandin, & Brakel, 2011; DeWalt & South, 2015; Houghton, 2016;  
Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
Houghton, 2022;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MN (Ross, 1944; Yamamoto & Wiggins, 1964; Etnier, 1965;  
Lager, Johnson, Williams, & McCullough, 1979;  
MacLean, 1995; Moulton & Stewart, 1996; Monson, 1997;

Houghton, Holzenthal, Monson, & MacLean, 2001; Zhou, 2011; Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MO (Yamamoto & Wiggins, 1964; Mathis & Bowles, 1992; Moulton & Stewart, 1996;  
Bowles, 2020;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MT (Newell, 1970; Newell & Potter, 1973; Roemhild, 1982; Moulton & Stewart, 1996);  
NB (Ross, 1944; Yamamoto & Wiggins, 1964; Moulton & Stewart, 1996);  
NC (Moulton & Stewart, 1996; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010;  
Zhou, 2011);  
ND (Harris, Lago, & Carlson, 1980; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NF (Yamamoto & Wiggins, 1964; Marshall & Larson, 1982; Moulton & Stewart, 1996);  
NH (Ross, 1944; Morse & Blickle, 1953; Yamamoto & Wiggins, 1964;  
Moulton & Stewart, 1996);  
NJ (Smith, 1910; Yamamoto & Wiggins, 1964; Moulton & Stewart, 1996; Zhou, 2011);  
NS (Ross, 1944; Yamamoto & Wiggins, 1964; Moulton & Stewart, 1996);  
NT (Yamamoto & Wiggins, 1964; Nimmo, 1986; Moulton & Stewart, 1996);  
NY (Lloyd, 1921; Betten, 1934; Milne, 1936; Yamamoto & Wiggins, 1964; McCabe, 1986;  
Moulton & Stewart, 1996; Zhou, 2011; Myers, Kondratieff, Mihuc, & Ruiter, 2011;  
Tozer, 2018);  
OH (Marshall, 1939; Yamamoto & Wiggins, 1964; Huryn & Foote, 1983;  
MacLean & MacLean, 1984; Moulton & Stewart, 1996; Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
OK (Moulton & Stewart, 1996);  
ON (Walker, 1852; Ricker, 1932; Yamamoto & Wiggins, 1964; Harper, 1989;  
Moulton & Stewart, 1996; Zhou, 2011);  
PA (Ross, 1941; Yamamoto & Wiggins, 1964; Swegman, Walker, & Sykora, 1981;  
Masteller & Flint, 1992; Moulton & Stewart, 1996);  
QC (Ross, 1944; Yamamoto & Wiggins, 1964; Robert, 1958;  
Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1975; Roy & Harper, 1979;  
Williams & Williams, 1979; Harper, 1989; Moulton & Stewart, 1996);  
SC (Moulton & Stewart, 1996; Floyd, Morse, & Harris, 1997; Zhou, 2011);  
SD (Yamamoto & Wiggins, 1964; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
SK (Milne, 1943; Yamamoto & Wiggins, 1964; Moulton & Stewart, 1996);  
TN (Yamamoto & Wiggins, 1964; Edwards, 1966; Etnier & Schuster, 1979;  
Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998;  
DeWalt & Heinold, 2005; Etnier, Bauer, & Zirkle, 2006);  
VA (Ross, 1941; Yamamoto & Wiggins, 1964; Parker & Voshell, 1981;  
Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2008; Flint, 2011);  
VT (Yamamoto & Wiggins, 1964; Wimmer, 1979; Bilger, 1986; Moulton & Stewart, 1996);  
WI (Ross, 1944; Yamamoto & Wiggins, 1964; Hilsenhoff et al, 1972;  
Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Steven & Hilsenhoff, 1984;  
Hilsenhoff, 1995; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
WV (Yamamoto & Wiggins, 1964; Glover & Tarter, 1990;  
Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016);  
WY (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
YT (Yamamoto & Wiggins, 1964; Nimmo & Wickstrom 1984;  
Wiggins & Parker, 1997; Moulton & Stewart, 1996).

*Nectopsyche albida* (Walker, 1852), *Leptocerus*, ON;  
*Setodes nivea* Hagen, 1861, Canada (Milne, 1934);  
*Mystacides uwarowii* Kolenati, 1859, North America (Milne, 1934);  
photos of larva, case (Haddock, 1977);

larval head, hindleg, male head (Haddock, 1977);  
 female genitalia (Schmid, 1980);  
 photo of eggs, larval head (Tozer, Resh, & Solem, 1981);  
 larval head, pro- & mesonotum (Glover & Floyd, 2004);  
 AK (Ross, 1944);  
 BC (Ross & Spencer, 1952; Haddock, 1977; Glover & Floyd, 2004);  
 CA (Resh & Mendez, 2022);  
 DC (Banks, 1892, Banks, 1904, doubtful record, Haddock, 1977);  
 FL (Banks, 1892, doubtful record, Haddock, 1977; Gordon, 1984;  
     doubtful or erroneous according to Pescador, Rasmussen, & Harris, 1995, 2004);  
 GA (Banks, 1892, doubtful record, Haddock, 1977);  
 IA (Haddock, 1977; Glover & Floyd, 2004; Blinn, Ruiter, & Flint, 2009;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Betten, 1934; Haddock, 1977; Glover & Floyd, 2004;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Tozer, Resh, & Solem, 1981; Waltz & McCafferty, 1983; Glover & Floyd, 2004;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Banks, 1894; Hamilton, Schuster, & DuBois, 1983; Glover & Floyd, 2004;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Glover & Floyd, 2004; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Haddock, 1977; Glover & Floyd, 2004);  
 MB (Neave, 1934; Haddock, 1977; Flannagan, 1978;  
     Flannagan & Flannagan, 1982; Glover & Floyd, 2004);  
 ME (Mingo & Gibbs, 1979; Bilger, 1986);  
 MI (Leonard & Leonard, 1949; Ellis, 1962; Haddock, 1977; Glover & Floyd, 2004;  
     Houghton, Brandin, & Brakel, 2011; Wright, Pytel, & Houghton, 2013; Houghton, 2016;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton, 2022;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Haddock, 1977; Monson, 1997;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Glover & Floyd, 2004;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Haddock, 1977; Glover & Floyd, 2004;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Holzenthal, Harris, & Lago, 1982; Glover & Floyd, 2004);  
 MT (Newell, 1970; Roemhild, 1982);  
 NC (Brimley, 1938 [probably not this species, according to range of Haddock, 1977]);  
 ND (Harris, Lago, & Carlson, 1980; Glover & Floyd, 2004;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NH (Morse & Blicke, 1953);  
 NJ (Smith, 1900; Smith, 1910; Haddock, 1977; Glover & Floyd, 2004);  
 NY (Betten, 1926; Haddock, 1977; McCabe, 1986; Glover & Floyd, 2004);  
 OH (Banks, 1892, doubtful record, Haddock, 1977; Huryn & Foote, 1983;  
     Garono & MacLean, 1988; Ingold, Weigt, & Guttman, 1988; Glover & Floyd, 2004;  
     Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Walker, 1852; Rawson, 1930; Haddock, 1977; Harper, 1989; Glover & Floyd, 2004);  
 PA (Banks, 1892, doubtful record, Haddock, 1977;  
     Masteller & Flint, 1979; Masteller & Flint, 1992; Glover & Floyd, 2004);  
 QC (Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1975;  
     Roy & Harper, 1979; Haddock, 1977; Harper, 1989; Glover & Floyd, 2004);  
 SC (Banks, 1892, doubtful record, Haddock, 1977);  
 SK (Milne, 1943);  
 TX (Hall, 1950 [probably not this species, according to range of Haddock, 1977]);

UT (Baumann & Unzicker, 1981);  
 VA (Flint, Hoffman, & Parker, 2008);  
 VT (Haddock, 1977; Wimmer, 1979; Bilger, 1986; Glover & Floyd, 2004);  
 WI (Vorhies, 1909; Betten, 1934; Longridge & Hilsenhoff, 1973;  
     Hilsenhoff, 1975; Haddock, 1977; Hilsenhoff, 1995; Glover & Floyd, 2004;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).  
*Nectopsyche candida* (Hagen, 1861), Setodes, FL;  
     male sternum IX, inferior appendage (Haddock, 1977);  
     male genitalia & photo of adult (Houghton, 2012);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Haddock, 1977; Harris, Lago, & O'Neil, 1984; Harris, 1987;  
     Harris & Lago, 1990; Harris, O'Neil, & Lago, 1991;  
     Moulton & Stewart, 1996; Hicks & Haynes, 2000a;  
     Hicks & Haynes, 2000b; Glover & Floyd, 2004; Harris & O'Neil, 2015);  
 AR (Unzicker, Aggus, & Warren, 1970; Haddock, 1977; Bowles & Mathis, 1989;  
     Moulton & Stewart, 1996; Glover & Floyd, 2004; Zhou, 2011;  
     Bowles, Cheri, Usrey, & Williams, 2020);  
 FL (Hagen, 1861; Haddock, 1977; Harris, Lago, & Scheiring, 1982; Gordon, 1984;  
     Pescador, Rasmussen, & Harris, 1995, 2004; Mattson, Epler, & Hein, 1995;  
     Moulton & Stewart, 1996; Rasmussen, 2004; Glover & Floyd, 2004; Zhou, 2011;  
     Denson, Rasmussen, & Harris, 2016);  
 GA (Hagen, 1861; Haddock, 1977; Moulton & Stewart, 1996; Glover & Floyd, 2004);  
 IA (Ross, 1944; Moulton & Stewart, 1996; Blinn, Ruiter, & Flint, 2009;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1944; Harris, 1971; Haddock, 1977; Moulton & Stewart, 1996; Glover & Floyd, 2004;  
     Zhou, 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1944; Haddock, 1977; Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
     Glover & Floyd, 2004; Simon, Morris, Robb, & McCoy, 2015;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton, Schuster, & DuBois, 1983; Moulton & Stewart, 1996; Glover & Floyd, 2004;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Ross, 1944; Resh, 1975; Haag, Resh, & Neff, 1984; Moulton & Stewart, 1996;  
     Glover & Floyd, 2004; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996; Glover & Floyd, 2004;  
     Zhou, 2011);  
 MD (Flint, 2008);  
 ME (Bilger, 1986; Moulton & Stewart, 1996; Glover & Floyd, 2004);  
 MI (Haddock, 1977; Moulton & Stewart, 1996; Glover & Floyd, 2004; Houghton, 2016;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton & Lardner, 2020;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Lager, Johnson, Williams, & McCullough, 1979; Moulton & Stewart, 1996;  
     Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001;  
     Glover & Floyd, 2004; Zhou, 2011; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Haddock, 1977; Mathis & Bowles, 1992;  
     Moulton & Stewart, 1996; Glover & Floyd, 2004; Ferro & Sites, 2007;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Haddock, 1977; Holzenthal, Harris, & Lago, 1982;  
     Moulton & Stewart, 1996; Glover & Floyd, 2004);  
 MT (Roemhild, 1982; Moulton & Stewart, 1996);  
 NC (Moulton & Stewart, 1996; Glover & Floyd, 2004;  
     Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);

ND (Harris, Lago, & Carlson, 1980; Moulton & Stewart, 1996; Glover & Floyd, 2004;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NE (Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NH (Morse & Blickle, 1953; Moulton & Stewart, 1996);  
 NJ (Smith, 1890; Moulton & Stewart, 1996);  
 NY (Glover & Floyd, 2004);  
 OH (Hagen, 1861; Haddock, 1977; Hury & Foote, 1983; Usis & MacLean, 1986;  
     Garono & MacLean, 1988; Moulton & Stewart, 1996; Glover & Floyd, 2004;  
     Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Haddock, 1977; Bowles & Mathis, 1992; Moulton & Stewart, 1996; Glover & Floyd, 2004;  
     Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006);  
 ON (Haddock, 1977; Moulton & Stewart, 1996; Glover & Floyd, 2004; Zhou, 2011);  
 PA (Hagen, 1861; Masteller & Flint, 1992; Moulton & Stewart, 1996);  
 QC (Nimmo, 1966; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1975;  
     Roy & Harper, 1979; Moulton & Stewart, 1996; Glover & Floyd, 2004);  
 SC (Hagen, 1861; Haddock, 1977; Morse, Chapin, Herlong, & Harvey, 1980;  
     Morse, Hamilton, & Hoffman, 1989; Moulton & Stewart, 1996;  
     Floyd, Morse, & Harris, 1997; Glover & Floyd, 2004; Zhou, 2011);  
 TN (Haddock, 1977; Etnier & Schuster, 1979;  
     Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998;  
     Glover & Floyd, 2004; Etnier, Bauer, & Zirkle, 2006);  
 TX (Cloud & Stewart, 1974; Moulton & Stewart, 1996;  
     Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997; Glover & Floyd, 2004);  
 VA (Haddock, 1977; Parker & Voshell, 1981; Hoffman & Parker, 1997;  
     Moulton & Stewart, 1996; Glover & Floyd, 2004; Flint, Hoffman, & Parker, 2008;  
     Zhou, 2011; Flint, 2011);  
 WI (Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Shapas & Hilsenhoff, 1976;  
     Haddock, 1977; Lillie & Hilsenhoff, 1992; Hilsenhoff, 1995;  
     Moulton & Stewart, 1996; Glover & Floyd, 2004;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Glover & Tarter, 1990; Tarter, 1990; Moulton & Stewart, 1996; Glover & Floyd, 2004;  
     Tarter & Floyd, 2016).  
 Nectopsyche diarina (Ross, 1944), Leptocella, IL;  
     photos of larva, case (Haddock, 1977);  
     larval head, hindleg (Haddock, 1977);  
     larval head, pro- & mesonotum (Glover & Floyd, 2004);  
     male genitalia (Houghton, 2012);  
 CO Ward, 1981; Herrmann, Ruiter, & Unzicker, 1986; Ward, 1986; Moulton & Stewart, 1996;  
     Glover & Floyd, 2004; Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 DE (Glover & Floyd, 2004);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ID (Haddock, 1977; Newell & Minshall, 1977; Moulton & Stewart, 1996; Glover & Floyd, 2004);  
 IL (Ross, 1944; Harris, 1971; Haddock, 1977; Moulton & Stewart, 1996; Glover & Floyd, 2004;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1944; Haddock, 1977; Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
     Glover & Floyd, 2004; DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Haddock, 1977; Hamilton, Schuster, & DuBois, 1983; Moulton & Stewart, 1996;  
     Glover & Floyd, 2004;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MB (Flannagan, 1978; Flannagan & Flannagan, 1982; Moulton & Stewart, 1996;  
     Glover & Floyd, 2004);

- MI (Ross, 1944; Haddock, 1977; Davis, Hudson, & Armitage, 1991; Moulton & Stewart, 1996; Glover & Floyd, 2004; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiten, Bright, Hudson, & Armitage, 2018; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MN (Etnier, 1965; Haddock, 1977; Moulton & Stewart, 1996; Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001; Glover & Floyd, 2004; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Glover & Floyd, 2004; Ferro & Sites, 2007; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MT (Roemhild, 1982; Moulton & Stewart, 1996);
- ND (Haddock, 1977; Harris, Lago, & Carlson, 1980; Moulton & Stewart, 1996; Glover & Floyd, 2004; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- NE (Haddock, 1977; Moulton & Stewart, 1996; Glover & Floyd, 2004; Zuellig, Heinold, Kondratieff, & Ruiten, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- NY (Haddock, 1977; Moulton & Stewart, 1996; Glover & Floyd, 2004; Myers, Kondratieff, Mihuc, & Ruiten, 2011);
- OH (Haddock, 1977; McElravy, Arsuffi, & Foote, 1977; Huryn & Foote, 1983; Usis & MacLean, 1986; Garono & MacLean, 1988; Moulton & Stewart, 1996; Glover & Floyd, 2004; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- OK (Moulton & Stewart, 1996);
- ON (Haddock, 1977; Moulton & Stewart, 1996; Glover & Floyd, 2004);
- SD (Ross, 1944; Haddock, 1977; Moulton & Stewart, 1996; Glover & Floyd, 2004; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- SK (Haddock, 1977; Moulton & Stewart, 1996; Glover & Floyd, 2004);
- TX (Edwards & Arnold, 1961; Moulton & Stewart, 1996; Moulton & Stewart, 1997; Glover & Floyd, 2004);
- UT (Haddock, 1977; Baumann & Unzicker, 1981; Moulton & Stewart, 1996; Glover & Floyd, 2004);
- VA (Parker & Voshell, 1981; Moulton & Stewart, 1996; Glover & Floyd, 2004; not in VA according to Flint, Hoffman, & Parker, 2008);
- VT (Wimmer, 1979; Moulton & Stewart, 1996);
- WI (Haddock, 1977; Hilsenhoff, 1981; Hilsenhoff, 1995; Moulton & Stewart, 1996; Glover & Floyd, 2004; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- WY (Haddock, 1977; Ruiten & Lavigne, 1985; Moulton & Stewart, 1996; Glover & Floyd, 2004).
- Nectopsyche dorsalis* (Banks, 1901), Leptocella, Mexico; larval head, male head, sternum IX (Haddock, 1977); southwestern United States to Venezuela and Colombia (Flint, 1991);
- AZ (Haddock, 1977; Blinn & Ruiten, 2006; Blinn & Ruiten, 2009a; Blinn & Ruiten, 2009b);
- CA (Haddock, 1977; Resh & Mendez, 2022);
- Mexico (Banks, 1901; Haddock, 1977);
- Central America (Haddock, 1977).
- Nectopsyche exquisita* (Walker, 1852), Leptocerus, GA; *Setodes piffardii* McLachlan, 1863, NS (Haddock, 1977); larval head, male sternum IX, inferior appendage (Haddock, 1977); larval gills, male & female wings, male genitalia (Schmid, 1980); larval head, thorax, metasternum, & case (Glover & Floyd, 2004); male genitalia & photo of adult (Houghton, 2012);



GA/SC (Hudson & Nichols, 1986);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris et al, 1983; Harris, Lago, & O'Neil, 1984; Harris, 1987; Harris & Lago, 1990; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Hicks & Haynes, 2000a; Hicks & Haynes, 2000b; Harris & O'Neil, 2015; Denson, Rasmussen, & Harris, 2016);  
 AR (Ross, 1944; Unzicker, Aggus, & Warren, 1970; Haddock, 1977; Bowles & Mathis, 1989; Moulton & Stewart, 1996; Glover & Floyd, 2004; Bowles, Cheri, Usrey, & Williams, 2020);  
 CT (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 DC (Hagen, 1861; Moulton & Stewart, 1996);  
 DE (Lake, 1984; Moulton & Stewart, 1996; Glover & Floyd, 2004);  
 FL (Betten, 1934; Ross, 1944; Haddock, 1977; Harris, Lago, & Scheiring, 1982; Gordon, 1984; Pescador, Rasmussen, & Harris, 1995, 2004; Mattson, Epler, & Hein, 1995; Moulton & Stewart, 1996; Rasmussen, 2004; Glover & Floyd, 2004; Denson, Rasmussen, & Harris, 2016);  
 GA (Walker, 1852; Ross, 1944; Haddock, 1977; Moulton & Stewart, 1996; Glover & Floyd, 2004);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1944; Haddock, 1977; Moulton & Stewart, 1996; Glover & Floyd, 2004; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1944; Waltz & McCafferty, 1983; Moulton & Stewart, 1996; Simon, Morris, Robb, & McCoy, 2015; DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton, Schuster, & DuBois, 1983; Moulton & Stewart, 1996; Glover & Floyd, 2004; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Ross, 1944; Resh, 1975; Haag, Resh, & Neff, 1984; Floyd & Schuster, 1990; Moulton & Stewart, 1996; Glover & Floyd, 2004; Etnier, Bauer, & Zirkle, 2006; Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Whitmore 2008);  
 MB (Haddock, 1977; Moulton & Stewart, 1996; Glover & Floyd, 2004);  
 MD (Haddock, 1977; Moulton & Stewart, 1996; Glover & Floyd, 2004; Flint, 2008);  
 ME (Hagen, 1873; Ross, 1944; Procter, 1946; Blickle & Morse, 1966; Haddock, 1977; Moulton & Stewart, 1996; Huryn & Harris, 2000; Glover & Floyd, 2004);  
 MI (Ross, 1944; Leonard & Leonard, 1949; Haddock, 1977; Davis, Hudson, & Armitage, 1991; Moulton & Stewart, 1996; Glover & Floyd, 2004; Houghton, Brandin, & Brakel, 2011; Houghton, 2016; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018; Houghton, 2022; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Ross, 1944; Etnier, 1965; Haddock, 1977; Moulton & Stewart, 1996; Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001; Glover & Floyd, 2004; Zhou, 2011; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Ross, 1944; Haddock, 1977; Mathis & Bowles, 1992; Moulton & Stewart, 1996; Glover & Floyd, 2004; Ferro & Sites, 2007; Bowles, 2020; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996; Glover & Floyd, 2004);  
 NB (Haddock, 1977; Moulton & Stewart, 1996; Glover & Floyd, 2004);  
 NC (Ross, 1944; Haddock, 1977; Wray, 1950; Lenat, 1987; Moulton & Stewart, 1996; Glover & Floyd, 2004; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 ND (Harris, Lago, & Carlson, 1980; Moulton & Stewart, 1996; Glover & Floyd, 2004);

Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NE (Haddock, 1977; Moulton & Stewart, 1996; Glover & Floyd, 2004);  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NH (Morse & Blickle, 1953; Haddock, 1977; Moulton & Stewart, 1996; Glover & Floyd, 2004);  
 NJ (Smith, 1900; Smith, 1910; Moulton & Stewart, 1996);  
 NS (McLachlan, 1863; Haddock, 1977; Moulton & Stewart, 1996; Glover & Floyd, 2004);  
 NY (Ulmer, 1905; Ross, 1944; Haddock, 1977; Moulton & Stewart, 1996; Glover & Floyd, 2004;  
 Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Marshall, 1939; Petersen & Foote, 1980; Hury & Foote, 1983; Garono & MacLean, 1988;  
 Moulton & Stewart, 1996; Glover & Floyd, 2004; Armitage et al., 2011);  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Haddock, 1977; Bowles & Mathis, 1992; Moulton & Stewart, 1996; Glover & Floyd, 2004);  
 ON (Ross, 1944; Haddock, 1977; Moulton & Stewart, 1996; Glover & Floyd, 2004; Zhou, 2011);  
 PA (Ross, 1941; Ross, 1944; Haddock, 1977; Moulton & Stewart, 1996; Glover & Floyd, 2004);  
 QC (Ross, 1944; Robert, 1958; Corbet, Schmid, & Augustin, 1966;  
 Roy & Harper, 1975; Roy & Harper, 1979; Haddock, 1977;  
 Masteller & Flint, 1992; Moulton & Stewart, 1996; Glover & Floyd, 2004);  
 SC (Ross, 1944; Haddock, 1977; White, Weaver, & Fox, 1980;  
 Moulton & Stewart, 1996; Floyd, Morse, & Harris, 1997; Glover & Floyd, 2004);  
 TN (Ross, 1944; Edwards, 1955; Edwards, 1966; Haddock, 1977;  
 Etnier & Schuster, 1979; Moulton & Stewart, 1996;  
 Etnier, Baxter, Fraley, & Parker, 1998; Glover & Floyd, 2004; DeWalt & Heinold, 2005;  
 Etnier, Bauer, & Zirkle, 2006;  
 DeWalt, Jacobus, & McCafferty, 2007);  
 TX (Edwards & Arnold, 1961; Edwards, 1973; Moulton & Stewart, 1996;  
 Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997; Glover & Floyd, 2004);  
 VA (Parker & Voshell, 1981; Hoffman & Parker, 1997; Moulton & Stewart, 1996;  
 Glover & Floyd, 2004; Flint, Hoffman, & Parker, 2008; Zhou, 2011; Flint, 2011);  
 VT (Ross, 1944; Haddock, 1977; Wimmer, 1979; Moulton & Stewart, 1996;  
 Glover & Floyd, 2004);  
 WI (Vorhies, 1909; Ross, 1944; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Haddock, 1977;  
 Hilsenhoff, 1995; Moulton & Stewart, 1996; Glover & Floyd, 2004;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Glover & Tarter, 1990; Tarter, 1990; Moulton & Stewart, 1996; Glover & Floyd, 2004;  
 Tarter & Floyd, 2016).  
 Nectopsyche gracilis (Banks, 1901), Leptocella, Mexico;  
 Leptocella exilis Banks, 1905 (Haddock, 1977 );  
 Leptocella gracilis Banks, 1904 (preoccupied by Leptocella gracilis Banks, 1901; renamed  
 Leptocella exilis Banks, 1905);  
 Leptocella intervena Banks, 1914, TX (Haddock, 1977);  
 male genitalia (Flint, 1967);  
 larval head (Haddock, 1977);  
 larva, case (Wiggins, 1977);  
 AZ (Haddock, 1977; Blinn & Ruiter, 2006);  
 CA (Haddock, 1977; Resh & Mendez, 2022);  
 CO (Banks, 1907, both Leptocella gracilis and Leptocella exilis; Ward, 1981; Ward, 1986;  
 Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 NM (Banks, 1904, both Leptocella gracilis and Leptocella exilis; Banks, 1905, as Leptocella  
 exilis; Banks, 1907, both Leptocella gracilis and Leptocella exilis; Haddock, 1977;  
 Blinn & Ruiter, 2009a, as Nectopsyche intervena);  
 NV (Ruiter, Baumann, & Flint, 2014);  
 OR (Anderson, 1976; Haddock, 1977);  
 SK (Haddock, 1977);  
 TX (Banks, 1914; Haddock, 1977; Moulton & Stewart, 1997; Bowles, Tiemann, & Easley, 2007);  
 UT (Haddock, 1977; Baumann & Unzicker, 1981);

- WA (Haddock, 1977);  
 Mexico (Banks, 1901; Haddock, 1977).
- Nectopsyche lahontanensis* Haddock, 1977, UT;  
 larval hindleg, male head, inferior appendage (Haddock, 1977);  
 AZ (Blinn & Ruiter, 2006);  
 BC (Haddock, 1977; Nimmo & Scudder, 1983);  
 CA (Haddock, 1977; Resh & Mendez, 2022);  
 CO (Herrmann, Ruiter, & Unzicker, 1986; Ruse & Herrmann, 2000;  
 Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 ID (Haddock, 1977);  
 MT (Roemhild, 1982);  
 NV (Haddock, 1977; Ruiter, Baumann, & Flint, 2014);  
 OR (Haddock, 1977);  
 UT (Haddock, 1977);  
 WA (Zack, Ruiter, Strenge, & Landolt, 2006);  
 WY (Haddock, 1977; Ruiter & Lavigne, 1985).
- Nectopsyche minuta* (Banks, 1900), *Leptocella*, WA;  
 larval head (Haddock, 1977);  
 AZ (Banks, 1903; Blinn & Ruiter, 2006);  
 CA (Haddock, 1977; Resh & Mendez, 2022);  
 ID (Haddock, 1977);  
 NV (Haddock, 1977; Ruiter, Baumann, & Flint, 2014);  
 WA (Banks, 1900; Haddock, 1977).
- Nectopsyche paludicola* Harris, 1986, AL;  
 larval head, pro- & mesonotum, metasternum (Glover & Floyd, 2004);  
 AL (Harris, 1986; Harris & Lago, 1990;  
 Harris, O'Neil, & Lago, 1991; Glover & Floyd, 2004; Harris & O'Neil, 2015);  
 FL (Gordon, 1984, "n. sp." may be this species;  
 Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004).
- Nectopsyche pavid*a (Hagen, 1861), *Setodes*, DC;  
 larval head, hindleg, male head, sternum IX (Haddock, 1977);  
 larval head, pro- & mesonotum, ventral apotome, & case (Glover & Floyd, 2004);  
 male genitalia (Houghton, 2012);  
 MD/VA (Flint & Butler, 1983);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris et al, 1983; Harris, Lago, & O'Neil, 1984; Harris, 1987; Harris & Lago, 1990;  
 Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996;  
 Hicks & Haynes, 2000a; Hicks & Haynes, 2000b; Glover & Floyd, 2004;  
 Harris & O'Neil, 2015; Denson, Rasmussen, & Harris, 2016);  
 AR (Ross, 1944; Unzicker, Aggus, & Warren, 1970; Haddock, 1977; Bowles & Mathis, 1989;  
 Moulton & Stewart, 1996; Glover & Floyd, 2004;  
 Bowles, Cheri, Usrey, & Williams, 2020);  
 CT (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 DC (Hagen, 1861; Moulton & Stewart, 1996);  
 FL (Betten, 1934; Frost, 1966; Haddock, 1977; Gordon, 1984;  
 Pescador, Rasmussen, & Harris, 1995, 2004; Mattson, Epler, & Hein, 1995;  
 Moulton & Stewart, 1996; Glover & Floyd, 2004; Rasmussen, 2004;  
 Denson, Rasmussen, & Harris, 2016);  
 GA (Ross, 1944; Haddock, 1977; Frazer, Harris, & Ward, 1991;  
 Moulton & Stewart, 1996; Glover & Floyd, 2004);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1944; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
 DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016);

Houghton & Lardner, 2020;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton, Schuster, & DuBois, 1983; Moulton & Stewart, 1996; Glover & Floyd, 2004;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Ross, 1944; Resh, 1975; Moulton & Stewart, 1996; Glover & Floyd, 2004;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996; Glover & Floyd, 2004);  
 MA (Ross, 1944; Haddock, 1977; Neves, 1979; Moulton & Stewart, 1996;  
 Glover & Floyd, 2004);  
 MD (Banks, 1907; Moulton & Stewart, 1996);  
 ME (Procter, 1946; Blickle & Morse, 1966; Moulton & Stewart, 1996);  
 MI (Ross, 1944; Haddock, 1977; Moulton & Stewart, 1996; Glover & Floyd, 2004;  
 Houghton, Brandin, & Brakel, 2011; Houghton, 2016;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Moulton & Stewart, 1996;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Glover & Floyd, 2004;  
 Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Ross, 1944; Mathis & Bowles, 1992; Moulton & Stewart, 1996; Glover & Floyd, 2004;  
 Ferro & Sites, 2007; Bowles, 2020;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Haddock, 1977; Hlozenthal, Harris, & Lago, 1982;  
 Moulton & Stewart, 1996; Glover & Floyd, 2004);  
 NC (Moulton & Stewart, 1996; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Morse & Blickle, 1953; Haddock, 1977;  
 Moulton & Stewart, 1996; Glover & Floyd, 2004);  
 NJ (Haddock, 1977; Moulton & Stewart, 1996; Glover & Floyd, 2004);  
 NY (Betten, 1926; Moulton & Stewart, 1996; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Haddock, 1977; Huryn & Foote, 1983; Garono & MacLean, 1988; Moulton & Stewart, 1996;  
 Glover & Floyd, 2004; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Ross, 1944; Bowles & Mathis, 1992; Moulton & Stewart, 1996; Glover & Floyd, 2004;  
 Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006);  
 ON (Haddock, 1977; Moulton & Stewart, 1996; Glover & Floyd, 2004);  
 QC (Robert, 1958; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1975; Roy & Harper, 1979;  
 Moulton & Stewart, 1996; Glover & Floyd, 2004);  
 SC (Morse, Chapin, Herlong, & Harvey, 1980;  
 Moulton & Stewart, 1996; Glover & Floyd, 2004);  
 TN (Ross, 1944; Edwards, 1955; Edwards, 1966; Etnier & Schuster, 1979;  
 Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998; Glover & Floyd, 2004;  
 Etnier, Bauer, & Zirkle, 2006);  
 TX (Edwards & Arnold, 1961; Edwards, 1973; Haddock, 1977;  
 Moulton & Stewart, 1996; Abbott, Stewart, & Moulton, 1997;  
 Moulton & Stewart, 1997; Glover & Floyd, 2004; Bowles, Tiemann, & Easley, 2007);  
 VA (Haddock, 1977; Parker & Voshell, 1981; Hoffman & Parker, 1997;  
 Moulton & Stewart, 1996; Glover & Floyd, 2004; Flint, Hoffman, & Parker, 2008;  
 Flint, 2011);  
 WI (Ross, 1944; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Haddock, 1977;  
 Steven & Hilsenhoff, 1984; Hilsenhoff, 1995; Moulton & Stewart, 1996;  
 Glover & Floyd, 2004;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Glover, & Tarter, 1990; Tarter, 1990);

- Moulton & Stewart, 1996; Glover & Floyd, 2004; Tarter & Floyd, 2016);  
 Central America, Mexico (Haddock, 1977; Moulton & Stewart, 1996);  
 Mexico (Moulton & Stewart, 1996).
- Nectopsyche spiloma* (Ross, 1944), Leptocella, KS;  
 male head (Haddock, 1977);  
 adult habitus, adult head & thorax, male genitalia (Holzenthall & Rios-Touma, 2018);  
 AL (Harris, Lago, & O'Neil, 1984; Harris & Lago, 1990; Harris, O'Neil, & Lago, 1991;  
 Moulton & Stewart, 1996; Glover & Floyd, 2004; Harris & O'Neil, 2015);  
 AR (Haddock, 1977; Moulton & Stewart, 1996; Glover & Floyd, 2004);  
 FL (Denson, Rasmussen, & Harris, 2016);  
 IL (Ross, 1944; Haddock, 1977; Moulton & Stewart, 1996; Glover & Floyd, 2004;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthall, Blahnik, & Snitgen, 2022);  
 KS (Ross, 1944; Haddock, 1977; Moulton & Stewart, 1996; Glover & Floyd, 2004;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthall, Blahnik, & Snitgen, 2022);  
 LA (Haddock, 1977; Moulton & Stewart, 1996; Glover & Floyd, 2004);  
 MO (Ross, 1944; Moulton & Stewart, 1996; Glover & Floyd, 2004;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthall, Blahnik, & Snitgen, 2022);  
 MS (Haddock, 1977; Holzenthall, Harris, & Lago, 1982;  
 Moulton & Stewart, 1996; Glover & Floyd, 2004);  
 OK (Bowles & Mathis, 1992; Moulton & Stewart, 1996; Glover & Floyd, 2004);  
 SD (Haddock, 1977; Moulton & Stewart, 1996; Glover & Floyd, 2004;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthall, Blahnik, & Snitgen, 2022);  
 TX (Ross, 1944; Edwards, 1973; Haddock, 1977; Moulton & Stewart, 1996;  
 Moulton & Stewart, 1997; Glover & Floyd, 2004);  
 Central America, Mexico (Haddock, 1977; Moulton & Stewart, 1996);  
 Guatemala, Honduras, Mexico, Nicaragua, Panama, Costa Rica,  
 Ecuador, Peru (Flint & Reyes, 1991;  
 Moulton & Stewart, 1996).
- Nectopsyche stigmatica* (Banks, 1914), Leptocella, NM;  
 Leptocella vakaca Schmid, 1950, NM (Navás, 1917; Haddock, 1977);  
 male genitalia (Flint, 1966);  
 larval head, male head (Haddock, 1977);  
 AZ (Haddock, 1977; Moulton, Stewart, & Young, 1994;  
 Houghton, 2001; Blinn & Ruitter, 2006; Blinn & Ruitter, 2009b);  
 CO (Haddock, 1977; Ward, 1981; Ward, 1986; Herrmann, Ruitter, & Unzicker, 1986;  
 Zuellig, Heinold, Kondratieff, & Ruitter, 2012);  
 NE (Zuellig, Heinold, Kondratieff, & Ruitter, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthall, Blahnik, & Snitgen, 2022);  
 NM (Banks, 1914; Haddock, 1977; Ruitter, 1996; Vieira, Kondratieff, Ruitter, & Durfee, 2009);  
 WY (Denning, 1948; Haddock, 1977; Ruitter & Lavigne, 1985);  
 Mexico (Bueno-Soria & Flint, 1978).
- Nectopsyche tavana* (Ross, 1944), Leptocella, FL;  
 larva, case (Daigle & Haddock, 1981);  
 larval head, pro- & mesonotum, metasternum (Glover & Floyd, 2004);  
 FL (Ross, 1944; Haddock, 1977; Daigle & Haddock, 1981;  
 Gordon, 1984; Pescador, Rasmussen, & Harris, 1995, 2004; Glover & Floyd, 2004).
- Nectopsyche texana* (Banks, 1905), Leptocella, TX;  
 TX (Banks, 1905).
- Nectopsyche waccamawensis* Glover & Floyd, 2004; NC  
 NC (Glover & Floyd, 2004; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010).
- Oecetis apache* Blahnik & Holzenthall, 2014, AZ;  
 AZ (Houghton, 2001 [as *Oecetis metlacensis* Bueno Soria, 1981 according to Blahnik &  
 Holzenthall, 2014]; Blahnik & Holzenthall, 2014);

Blinn & Ruiter, 2006 [as *Oecetis metlacensis* Bueno Soria, 1981]);  
 NM (Blahnik & Holzenthal, 2014).

*Oecetis arizonica* Denning, 1951, AZ;  
 larva (Floyd, 1995);  
 AZ (Denning, 1951; Floyd, 1995; Ruiter, 1996; Blinn & Ruiter, 2006; Blinn & Ruiter, 2009b);  
 CO (Herrmann, Ruiter, & Unzicker, 1986);  
 Mexico (Flint, 1967).

*Oecetis avara* (Banks, 1895), Setodes, Canada;  
 larva, male & female genitalia (Ross, 1944);  
 photos of larvae in cases (Anderson, 1976);  
 larva, pupa, photo of pupal case, male & female genitalia  
 (Smith & Lehmkuhl, 1980b);  
 male genitalia (Bueno-Soria, 1981);  
 larva (Floyd, 1995);  
 male genitalia & photo of adult (Houghton, 2012; Blahnik & Holzenthal, 2014);  
 Canada (Banks, 1895);  
 Canada to Ecuador and Venezuela (Flint, 1991);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AB (Floyd, 1995);  
 AL (Ross, 1944; Harris et al, 1983; Harris, Lago, & O'Neil, 1984; Harris, 1987;  
 Harris & Lago, 1990; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996;  
 Hicks & Haynes, 2000a; Hicks & Haynes, 2000b);  
 AR (Unzicker, Aggus, & Warren, 1970; Bowles & Mathis, 1989; Moulton & Stewart, 1996;  
 Bowles, Cheri, Usrey, & Williams, 2020);  
 AZ (Moulton, Stewart, & Young, 1994; Floyd, 1995; Ruiter, 1996; Blinn & Ruiter, 2006;  
 Blinn & Ruiter, 2009a; Blinn & Ruiter, 2009b);  
 BC (Clemens et al, 1939; Ross, 1944; Ross & Spencer, 1952);  
 CA (Floyd, 1995; Givens, 2014; Resh & Mendez, 2022);  
 CO (Ward, 1981; Ward, 1986; Canton & Ward, 1981; Herrmann, Ruiter, & Unzicker, 1986;  
 Floyd, 1995; Moulton & Stewart, 1996; Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 CT (Britton, 1920; Nelson & Downs, 1995);  
 DC (Banks, 1904; Moulton & Stewart, 1996);  
 DE (Lake, 1984; Moulton & Stewart, 1996);  
 FL (Pescador, Rasmussen, & Harris, 1995, 2004; Zhou, 2011; Blahnik & Holzenthal, 2014;  
 Denson, Rasmussen, & Harris, 2016);  
 GA (Ross, 1944; Moulton & Stewart, 1996);  
 IA (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Blinn, Ruiter, & Flint, 2009;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ID (Ross, 1944; Smith & Lehmkuhl, 1980b; Moulton & Stewart, 1996);  
 IL (Ross, 1944; Floyd, 1995; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1944; Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton, Schuster, & DuBois, 1983; Moulton & Stewart, 1996;  
 Blahnik & Holzenthal, 2014;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Ross, 1944; Resh, 1975; Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Neves, 1979; Bilger, 1986; Moulton & Stewart, 1996; Whitmore 2008);  
 MB (Flannagan, 1978; Flannagan & Flannagan, 1982; Cobb, Flannagan, & Friesen, 1984;  
 Floyd, 1995; Zhou, 2011);  
 MD (Ross, 1944; Floyd, 1995; Moulton & Stewart, 1996; Flint, 2008;  
 Blahnik & Holzenthal, 2014);  
 ME (Ross, 1944; Blicke & Morse, 1966; Mingo & Gibbs, 1980;

Bilger, 1986; Floyd, 1995; Moulton & Stewart, 1996; Huryn & Harris, 2000);  
 MI (Ross, 1944; Leonard & Leonard, 1949; Ellis, 1962;  
 Davis, Hudson, & Armitage, 1991; Moulton & Stewart, 1996;  
 Houghton, Brandin, & Brakel, 2011; DeWalt & South, 2015;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton & Lardner, 2020; Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Ross, 1944; Etnier, 1965; Lager, Johnson, Williams, & McCullough, 1979; Floyd, 1995;  
 Moulton & Stewart, 1996; Monson, 1997;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton & Holzenthal, 2010;  
 Zhou, 2011; Houghton, 2012; Blahnik & Holzenthal, 2014;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Ross, 1944; Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Holzenthal, Harris, & Lago, 1982; Floyd, 1995; Moulton & Stewart, 1996);  
 MT (Ross, 1944; Newell, 1970; Newell & Potter, 1973; Smith & Lehmkuhl, 1980b;  
 Roemhild, 1982; Moulton & Stewart, 1996);  
 NC (Banks, 1908; Floyd, 1995; Moulton & Stewart, 1996; DeWalt, Jacobus, & McCafferty, 2007;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Zhou, 2011);  
 ND (Harris, Lago, & Carlson, 1980; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NH (Morse & Blickle, 1953; Moulton & Stewart, 1996);  
 NJ (Smith, 1900; Smith, 1910; Moulton & Stewart, 1996);  
 NM (Ross, 1944; Waltz & McCafferty, 1983; Ruiter, 1996; Moulton & Stewart, 1996;  
 Blinn & Ruiter, 2009a);  
 NS (Ross, 1944; Floyd, 1995; Zhou, 2011);  
 NV (Ruiter, Baumann, & Flint, 2014);  
 NY (Sibley, 1926; Ross, 1944; Osgood, 1957; Bilger, 1986; Floyd, 1995;  
 Moulton & Stewart, 1996; Myers, Kondratieff, Mihuc, & Ruiter, 2011;  
 Blahnik & Holzenthal, 2014; Tozer, 2018);  
 OH (Marshall, 1939; Ross, 1944; Huryn & Foote, 1983; Floyd, 1995; Moulton & Stewart, 1996;  
 Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Ross, 1944; Bowles & Mathis, 1992; Floyd, 1995; Moulton & Stewart, 1996;  
 Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006);  
 ON (Ross, 1944; Sprules, 1947; Munroe, 1951; Smith & Lehmkuhl, 1980b; Floyd, 1995;  
 Zhou, 2011);  
 OR (Ross, 1944; Anderson, 1976; Floyd, 1995; Moulton & Stewart, 1996);  
 PA (Ross, 1944; Hyland, 1948; Masteller & Flint, 1992; Moulton & Stewart, 1996);  
 QC (Robert, 1958; Corbet, Schmid, & Augustin, 1966;  
 Roy & Harper, 1975; Roy & Harper, 1979; Floyd, 1995; Blahnik & Holzenthal, 2014);  
 SC (Morse, Hamilton, & Hoffman, 1989; Floyd, 1995;  
 Moulton & Stewart, 1996; Floyd, Morse, & Harris, 1997; Zhou, 2011);  
 SD (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 SK (Milne, 1943; Smith & Lehmkuhl, 1980b);  
 TN (Ross, 1944; Edwards, 1955; Edwards, 1966; Etnier & Schuster, 1979;  
 Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998;  
 DeWalt & Heinold, 2005; Etnier, Bauer, & Zirkle, 2006; Zhou, 2011);  
 TX (Ross, 1944; Hall, 1950; Edwards & Arnold, 1961; Edwards, 1973; Floyd, 1995;  
 Moulton & Stewart, 1996; Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997;  
 Bowles, Tiemann, & Easley, 2007);  
 UT (Baumann & Unzicker, 1981; Moulton & Stewart, 1996);  
 VA (Parker & Voshell, 1981; Floyd, 1995; Moulton & Stewart, 1996;  
 Flint, Hoffman, & Parker, 2008; Zhou, 2011; Flint, 2011);  
 VT (Wimmer, 1979; Bilger, 1986; Moulton & Stewart, 1996);

- WA (Newell, Ruiter, & Streng, 2001; Zack, Ruiter, Streng, & Landolt, 2006; Blinn & Ruiter, 2013);
- WI (Ross, 1944; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Shapas & Hilsenhoff, 1976; Steven & Hilsenhoff, 1984; Lillie & Hilsenhoff, 1992; Floyd, 1995; Hilsenhoff, 1995; Moulton & Stewart, 1996; Blahnik & Holzenthal, 2014; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- WV (Ross, 1944; Glover & Tarter, 1990; Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016);
- WY (Ross, 1944; Ruiter & Lavigne, 1985; Moulton & Stewart, 1996; Ruiter, 1996; Zhou, 2011);
- Belize (Bueno-Soria & Flint, 1978; Moulton & Stewart, 1996);
- Costa Rica (Bueno-Soria & Flint, 1978; Moulton & Stewart, 1996);
- El Salvador (Bueno-Soria & Flint, 1978; Moulton & Stewart, 1996);
- Guatemala (Bueno-Soria & Flint, 1978; Moulton & Stewart, 1996);
- Honduras (Bueno-Soria & Flint, 1978; Moulton & Stewart, 1996);
- Mexico (Bueno-Soria & Flint, 1978; Moulton & Stewart, 1996);
- Nicaragua (Bueno-Soria & Flint, 1978; Moulton & Stewart, 1996);
- Panama (Bueno-Soria & Flint, 1978; Moulton & Stewart, 1996);
- Venezuela (Bueno-Soria & Flint, 1978; Moulton & Stewart, 1996).
- ? *Oecetis cinerascens* (Hagen, 1861), Setodes, DC;
- Oecetina floridana* Banks, 1899, FL (Milne, 1935; but Ross, 1938, referred to Milne when calling *O. floridana* a synonym of *Oecetis inconspicua*);
- Oecetina fumosa* Banks, 1899, DC (Ross, 1938);
- larva (Floyd, 1995);
- male genitalia (Houghton, 2012);
- MD/VA (Flint & Butler, 1983);
- NC/SC (Unzicker, Resh, & Morse, 1982);
- OK/TX (Resh, White, & White, 1978);
- AB (Floyd, 1995);
- AL (Ross, 1941; Harris et al, 1983; Harris, Lago, & O'Neil, 1984; Harris, 1987; Harris & Lago, 1990; Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Hicks & Haynes, 2000a; Hicks & Haynes, 2000b; Zuellig, Heinold, Kondratieff, & Ruiter, 2012; Harris & O'Neil, 2015; Denson, Rasmussen, & Harris, 2016);
- AR (Ross, 1944; Unzicker, Aggus, & Warren, 1970; Bowles & Mathis, 1989; Moulton & Stewart, 1996; Bowles, Cheri, Usrey, & Williams, 2020);
- CO (Ruiter, 1999; Zuellig, Heinold, Kondratieff, & Ruiter, 2012);
- CT (Nelson, 1987; Downs & Godwin, 1987; Nelson & Downs, 1995; Moulton & Stewart, 1996);
- DC (Hagen, 1861; Banks, 1899; Moulton & Stewart, 1996);
- DE (Lake, 1984; Moulton & Stewart, 1996);
- FL (Banks, 1899; Harris, Lago, & Scheiring, 1982; Gordon, 1984; Floyd, 1995; Pescador, Rasmussen, & Harris, 1995, 2004; Moulton & Stewart, 1996; Rasmussen, 2004; Denson, Rasmussen, & Harris, 2016);
- GA (Ross, 1944; Moulton & Stewart, 1996);
- IA (Blinn, Ruiter, & Flint, 2009; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- IL (Betten, 1934; Ross, 1944; Floyd, 1995; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- IN (Waltz & McCafferty, 1983; Floyd, 1995; Moulton & Stewart, 1996; Simon, Morris, Robb, & McCoy, 2015; DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- KS (Hamilton, Schuster, & DuBois, 1983; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);



KY (Resh, 1975; Haag, Resh, & Neff, 1984; Floyd & Schuster, 1990;  
     Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006;  
     Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Holzenthal, Harris, & Lago, 1982;  
     Sparks, Jackson, Carpenter, & Muller, 1986; Moulton & Stewart, 1996);  
 MA (Ross, 1944; Neves, 1979; Bilger, 1986; Moulton & Stewart, 1996; Whitmore 2008);  
 MD (Banks, 1904; Floyd, 1995; Moulton & Stewart, 1996);  
 ME (Ross, 1944; Procter, 1946; Blickle & Morse, 1966; Moulton & Stewart, 1996);  
 MI (Moffet, 1943; Ross, 1944; Leonard & Leonard, 1949;  
     Ellis, 1962; Davis, Hudson, & Armitage, 1991; Floyd, 1995;  
     Moulton & Stewart, 1996; Houghton, Brandin, & Brakel, 2011;  
     Wright, Pytel, & Houghton, 2013; DeWalt & South, 2015; Houghton, 2016;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
     Houghton, 2022;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Ross, 1944; Etnier, 1965; Lager, Johnson, Williams, & McCullough, 1979; Floyd, 1995;  
     MacLean, 1995; Moulton & Stewart, 1996; Ruitter, 1996; Monson, 1997;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton & Holzenthal, 2010;  
     Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Ross, 1944; Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007;  
     Bowles, 2020;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996);  
 NB (Ross, 1944; Moulton & Stewart, 1996);  
 NC (Floyd, 1995; DeWalt, Jacobus, & McCafferty, 2007;  
     Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 ND (Harris, Lago, & Carlson, 1980; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NE (Ruitter, 1996; Harris, Kondratieff, & Boyle, 2000;  
     Zuellig, Heinold, Kondratieff, & Ruitter, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NH (Morse & Blickle, 1953);  
 NJ (Smith, 1900; Smith, 1910; Moulton & Stewart, 1996);  
 NS (Ross, 1944; Moulton & Stewart, 1996);  
 NY (Betten, 1934; Ross, 1944; McCabe, 1986; Bilger, 1986; Floyd, 1995;  
     Moulton & Stewart, 1996; Myers, Kondratieff, Mihuc, & Ruitter, 2011; Tozer, 2018);  
 OH (Marshall, 1939; Ross, 1944; Petersen & Foote, 1980; Huryn & Foote, 1983;  
     MacLean & MacLean, 1984; Usis & MacLean, 1986; Garono & MacLean, 1988;  
     Floyd, 1995; Moulton & Stewart, 1996; Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Ross, 1944; Sublette, 1957; Bowles & Mathis, 1992;  
     Moulton & Stewart, 1996;  
     Zuellig, Kondratieff, Schmidt, Durfee, Ruitter, & Prather, 2006);  
 ON (Ross, 1944; Floyd, 1995; Moulton & Stewart, 1996);  
 PA (Ross, 1944; Hyland, 1948; Swegman, Walker, & Sykora, 1981;  
     Masteller & Flint, 1992; Moulton & Stewart, 1996);  
 QC (Ross, 1944; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1975; Roy & Harper, 1979;  
     Moulton & Stewart, 1996);  
 RI (Hunt, 2017);  
 SC (Morse, Chapin, Herlong, & Harvey, 1980; Floyd, 1995; Moulton & Stewart, 1996);  
 SD (Ross, 1944; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 SK (Ross, 1944; Floyd, 1995; Moulton & Stewart, 1996);

- TN (Ross, 1944; Edwards, 1955; 1966; Etnier & Schuster, 1979; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998; Etnier, Bauer, & Zirkle, 2006; DeWalt, Jacobus, & McCafferty, 2007);
- TX (Tucker, 1908; Ross, 1944; Hall, 1950; Edwards, 1973; Moulton & Stewart, 1996; Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997; Bowles, Tiemann, & Easley, 2007);
- VA (Banks, 1907; Ross, 1944; Parker & Voshell, 1981; Hoffman & Parker, 1997; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2008; Flint, 2011);
- VT (Wimmer, 1979; Moulton & Stewart, 1996);
- WA (Zack, Ruiter, Strenge, & Landolt, 2006);
- WI (Betten, 1934; Ross, 1944; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Steven & Hilsenhoff, 1984; Lillie & Hilsenhoff, 1992; Floyd, 1995; Hilsenhoff, 1995; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- WV (Glover & Tarter, 1990; Tarter, 1990; Griffith & Perry, 1992; Moulton & Stewart, 1996; Tarter & Floyd, 2016);
- Mexico (Bueno-Soria & Flint, 1978; Moulton & Stewart, 1996).
- Oecetis daytona* Ross, 1947, FL;  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris & Lago, 1990; Harris, 1990; Harris, O'Neil, & Lago, 1991);  
 FL (Ross, 1947; Gordon, 1984; Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004; Denson, Rasmussen, & Harris, 2016);  
 MS (Holzenthal, Harris, & Lago, 1982);  
 SC (Floyd, 1995).
- Oecetis disjuncta* (Banks, 1920), *Oecetina*, CA;  
 male genitalia and photo of adult male (Blahnik & Holzenthal, 2014);  
 CA (Banks, 1920; Blahnik & Holzenthal, 2014; Givens, 2014; Resh & Mendez, 2022);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018);  
 OR (Blahnik & Holzenthal, 2014);
- Oecetis ditissa* Ross, 1966, IL;  
 male genitalia (Houghton, 2012);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 OK/TX (Resh, White, & White, 1978);  
 AL (Harris et al, 1983; Harris, Lago, & O'Neil, 1984; Harris, 1987; Harris & Lago, 1990; Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Hicks & Haynes, 2000a; Hicks & Haynes, 2000b; Harris & O'Neil, 2015; Denson, Rasmussen, & Harris, 2016);  
 AR (Bowles & Mathis, 1989; Moulton & Stewart, 1996; Bowles, 2020; Bowles, Cheri, Usrey, & Williams, 2020);  
 FL (Gordon, 1984; Pescador, Rasmussen, & Harris, 1995, 2004; Moulton & Stewart, 1996; Rasmussen, 2004; Denson, Rasmussen, & Harris, 2016);  
 GA (Floyd, 1995);  
 IA (Blinn, Ruiter, & Flint, 2009; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1966; Harris, 1971; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1966; Waltz & McCafferty, 1983; Moulton & Stewart, 1996; DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton, Schuster, & DuBois, 1983; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Haag, Resh, & Neff, 1984; Floyd & Schuster, 1990; Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006; Floyd, Moulton, Schuster, Parker, & Robinson, 2012);

- Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996);  
 MA (Neves, 1979; Moulton & Stewart, 1996);  
 MD (Flint, 2008);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007; Bowles, 2020;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996);  
 NC (Floyd, 1995; Moulton & Stewart, 1996;  
 Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 OH (Ross, 1966; Huryn & Foote, 1983; MacLean & MacLean, 1984; Usis & MacLean, 1986;  
 Garono & MacLean, 1988; Moulton & Stewart, 1996; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Bowles & Mathis, 1992; Moulton & Stewart, 1996;  
 Zuellig, Kondratieff, Schmidt, Durfee, Ruitter, & Prather, 2006);  
 PA (Masteller & Flint, 1979; Masteller & Flint, 1992; Moulton & Stewart, 1996);  
 SC (Morse, Chapin, Herlong, & Harvey, 1980; Moulton & Stewart, 1996);  
 TN (Ross, 1966; Etnier & Schuster, 1979; Moulton & Stewart, 1996;  
 Etnier, Baxter, Fraley, & Parker, 1998; Etnier, Bauer, & Zirkle, 2006);  
 TX (Floyd, 1995; Moulton & Stewart, 1996;  
 Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);  
 VA (Parker & Voshell, 1981; Hoffman & Parker, 1997;  
 Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2008);  
 WI (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Tarter & Floyd, 2016).
- Oecetis eddlestoni* Ross, 1938, PA;  
 larva (Floyd, 1995);  
 AR (Unzicker, Aggus, & Warren, 1970; Bowles & Mathis, 1989; Moulton & Stewart, 1993;  
 Moulton & Stewart, 1996; Bowles, Cheri, Usrey, & Williams, 2020);  
 IL (Ross, 1944; Floyd, 1995; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton, Schuster, & DuBois, 1983; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OH (Marshall, 1939; Huryn & Foote, 1983; Moulton & Stewart, 1996; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Ross, 1944; Bowles & Mathis, 1992; Moulton & Stewart, 1993; Moulton & Stewart, 1996);  
 PA (Ross, 1938; Masteller & Flint, 1992; Moulton & Stewart, 1996);  
 TN (Edwards, 1956; Edwards, 1966, uncertain records according to  
 Etnier & Schuster, 1979, and Etnier, Baxter, Fraley, & Parker, 1998);  
 VT (Bilger, 1986; Moulton & Stewart, 1996).
- ? *Oecetis floridana* (Banks, 1905), Setodes, FL, [nomen nudum; preoccupied by  
*Oecetina floridana* Banks, 1899 (Holzenthal, 1982)];  
 FL (Banks, 1905; Pescador, Rasmussen, & Harris, 1995, 2004).
- Oecetis georgia* Ross, 1941, GA;  
 larva (Floyd, 1995);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris, 1987; Harris & Lago, 1990; Harris, O'Neil, & Lago, 1991; Floyd, 1995;  
 Hicks & Haynes, 2000a; Harris & O'Neil, 2015);  
 FL (Harris, Lago, & Scheiring, 1982; Gordon, 1984; Floyd, 1995;  
 Pescador, Rasmussen, & Harris, 1995, 2004; Pescador & Harris, 1995;  
 Rasmussen, 2004; Denson, Rasmussen, & Harris, 2016);  
 GA (Ross, 1941; Floyd, 1995);

LA (Holzenthall, Harris, & Lago, 1982);  
 NC (Floyd, 1995; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 SC (Floyd, 1995; Floyd, Morse, & Harris, 1997);  
 TN (Etnier, Baxter, Fraley, & Parker, 1998);  
 TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997).  
*Oecetis houghtoni* Blahnik & Holzenthall, 2014, MN  
   AR (Blahnik & Holzenthall, 2014);  
   MI (Blahnik & Holzenthall, 2014;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthall, Blahnik, & Snitgen, 2022);  
   MN (Blahnik & Holzenthall, 2014;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthall, Blahnik, & Snitgen, 2022);  
   MS (Blahnik & Holzenthall, 2014);  
   ON (Blahnik & Holzenthall, 2014).  
*Oecetis immobilis* (Hagen, 1861), Setodes, Canada;  
   larva (Floyd, 1995);  
   male genitalia (Houghton, 2012);  
   photos of larva & case, head, thorax (Ruiter, Boyle, & Zhou, 2013);  
   Canada (Hagen, 1861);  
   AB (Richardson & Clifford, 1986);  
   BC (Ross & Spencer, 1952);  
   CO (Ruiter, 1999);  
   IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthall, Blahnik, & Snitgen, 2022);  
   IL (Ross, 1944;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthall, Blahnik, & Snitgen, 2022);  
   IN (Betten, 1934; Waltz & McCafferty, 1983;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthall, Blahnik, & Snitgen, 2022);  
   MB (Flannagan & Flannagan, 1982; Resh, Rosenberg, & Wiens, 1983;  
     Ruiter, Boyle, & Zhou, 2013; Chatila-Amos, 2021);  
   ME (Blickle & Morse, 1966);  
   MI (Ross, 1944; Davis, Hudson, & Armitage, 1991; Houghton, 2016;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton, 2022;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthall, Blahnik, & Snitgen, 2022);  
   MN (Etnier, 1965; Houghton, Holzenthall, Monson, & MacLean, 2001; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthall, Blahnik, & Snitgen, 2022);  
   MT (Newell, 1970; Newell & Potter, 1973; Roemhild, 1982);  
   NB (Ross, 1944);  
   ND (Harris, Lago, & Carlson, 1980;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthall, Blahnik, & Snitgen, 2022);  
   NH (Morse & Blickle, 1953);  
   NS (Ross, 1944);  
   NY (Betten, 1926);  
   OH (Marshall, 1939; Huryn & Foote, 1983; MacLean & MacLean, 1984;  
     Garono & MacLean, 1988; Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthall, Blahnik, & Snitgen, 2022);  
   ON (Harper, 1989);  
   PA (Masteller & Flint, 1979; Masteller & Flint, 1992);  
   QC (Nimmo, 1966; Corbet, Schmid, & Augustin, 1966;  
     Roy & Harper, 1975; Roy & Harper, 1979; Harper, 1989);  
   SK (Milne, 1943);  
   VT (Wimmer, 1979);  
   WA (Newell, Ruiter, & Strenge, 2001; Zack, Ruiter, Strenge, & Landolt, 2006);  
   WI (Ross, 1944; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hilsenhoff, 1995;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthall, Blahnik, & Snitgen, 2022);

YT (Floyd, 1995; Wiggins & Parker, 1997).

Oecetis inconspicua (Walker, 1852), Leptocerus, GA;  
 Oecetina apicalis Banks, 1907, TX (Milne, 1935; Ross, 1944);  
 Setodes flaveolata Hagen, 1861, DC (Milne, 1934; Ross, 1938);  
 Oecetina flavida Banks, 1899, FL (Milne, 1935; Ross, 1938);  
 Setodes incerta Provancher, 1877, Canada (Betten & Mosely, 1940);  
 Oecetina inornata Banks, 1907, AZ (Milne, 1935; Ross, 1944);  
 Setodes micans Hagen, 1861, DC (Milne, 1935; Ross, 1938);  
 Oecetina parvula Banks, 1899, DC (Milne, 1935; Ross, 1938);  
 Setodes sagitta Hagen, 1861, FL (Milne, 1935; Ross, 1938);  
 male & female genitalia (Ross, 1944; Flint, 1968);  
 adult mesothorax (Wimmer, 1979);  
 wings, male & female genitalia (Schmid, 1980);  
 male & female genitalia (Flint, 1981);  
 male genitalia (Marshall & Larson, 1982);  
 male genitalia & photo of adult (Houghton, 2012);  
 photo of adult habitus (Hribar & Rasmussen, 2021);  
 Canada to Greater Antilles, Colombia, and Venezuela (Flint, 1991);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 OK/TX (Resh, White, & White, 1978);  
 AB (Richardson & Clifford, 1986; Moulton & Stewart, 1996; Zhou, 2011);  
 AK (Vineyard, 1982; Moulton & Stewart, 1996);  
 AL (Ross, 1941; Ross, 1944; Harris et al, 1983; Harris, O'Neil, & Lago, 1984; Harris, 1987;  
 Harris & Lago, 1990; Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991;  
 Moulton & Stewart, 1996; Hicks & Haynes, 2000a; Hicks & Haynes, 2000b;  
 Harris & O'Neil, 2015; Denson, Rasmussen, & Harris, 2016);  
 AR (Ross, 1941; Ross, 1944; Unzicker, Aggus, & Warren, 1970; Bowles & Mathis, 1989;  
 Moulton & Stewart, 1996; Zhou, 2011; Bowles, 2020;  
 Bowles, Cheri, Usrey, & Williams, 2020);  
 AZ (Banks, 1907; Moulton & Stewart, 1996; Blinn & Ruiter, 2006; Blinn & Ruiter, 2009a);  
 BC (Clemens et al, 1939; Ross, 1944; Ross & Spencer, 1952;  
 Winterbourn, 1971; Nimmo & Scudder, 1978;  
 Flannagan & MacDonald, 1987; Moulton & Stewart, 1996);  
 CA (Ross, 1944; Ross, 1951; Denning, 1956; Herrmann, 1977;  
 Resh & Sorg, 1978; Moulton & Stewart, 1996; Tozer, 2022; Resh & Mendez, 2022);  
 CO (Herrmann, Ruiter, & Unzicker, 1986; Ruiter, 1996; Moulton & Stewart, 1996;  
 Ruse & Herrmann, 2000; Zhou, 2011; Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
 Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
 CT (Nelson, 1987; Downs & Godwin, 1987; Nelson & Downs, 1995; Moulton & Stewart, 1996);  
 DC (Hagen, 1861; Banks, 1892; Banks, 1899; Ross, 1938; Moulton & Stewart, 1996);  
 DE (Lake, 1984; Moulton & Stewart, 1996);  
 FL (Hagen, 1861; Banks, 1899; Betten, 1934; Ross, 1938; Ross, 1944; Frost, 1966; Gordon, 1984;  
 Pescador, Rasmussen, & Harris, 1995, 2004; Moulton & Stewart, 1996;  
 Rasmussen, 2004; Zhou, 2011; Denson, Rasmussen, & Harris, 2016;  
 Hribar & Rasmussen, 2021);  
 GA (Walker, 1852; Ross, 1944; Hoffman & Hamilton, 1988; Frazer, Harris, & Ward, 1991;  
 Moulton & Stewart, 1996; Zhou, 2011);  
 IA (Ross, 1944; Moulton & Stewart, 1996; Blinn, Ruiter, & Flint, 2009;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Betten, 1934; Ross, 1944; Harris, 1971; Moulton & Stewart, 1996; Zhou, 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Betten, 1934; Ross, 1944; Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
 DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Banks, 1894; Ross, 1944; Hamilton, Schuster, & DuBois, 1983; Moulton & Stewart, 1996);

Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Ross, 1944; Resh, 1975; Haag, Resh, & Neff, 1984; Floyd & Schuster, 1990;  
 Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006; Zhou, 2011;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Hagen, 1861; Banks, 1892; Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996);  
 MA (Ross, 1944; Neves, 1979; Bilger, 1986; Moulton & Stewart, 1996);  
 MB (Neave, 1934; Flannagan, 1978; Flannagan & Cobb, 1981;  
 Flannagan & Flannagan, 1982; Resh, Rosenberg, & Wiens, 1983;  
 Flannagan & MacDonald, 1987; Moulton & Stewart, 1996; Zhou, 2011;  
 Chatila-Amos, 2021);  
 MD (Banks, 1907; Moulton & Stewart, 1996; Flint, 2008);  
 ME (Johnson, 1927; Ross, 1944; Procter, 1946; Blicke & Morse, 1966; Mingo & Gibbs, 1980;  
 Bilger, 1986; Moulton & Stewart, 1996; Huryn & Harris, 2000);  
 MI (Betten, 1934; Moffet, 1943; Ross, 1944; Leonard & Leonard, 1949; Ellis, 1962;  
 Davis, Hudson, & Armitage, 1991; Moulton & Stewart, 1996;  
 Yanoviak & McCafferty, 1996; Ruiter, 2010;  
 Houghton, Brandin, & Brakel, 2011; Zhou, 2011; Wright, Pytel, & Houghton, 2013;  
 Houghton, 2015; Houghton, 2016;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton & Lardner, 2020; Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Ross, 1944; Etnier, 1965; MacLean, 1995; Moulton & Stewart, 1996; Ruiter, 1996;  
 Monson, 1997; Harris, Kondratieff, & Boyle, 2000;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton & Holzenthal, 2010;  
 Zhou, 2011; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Ross, 1944; Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007;  
 Bowles, 2020;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996);  
 MT (Newell, 1970; Newell & Potter, 1973; Roemhild, 1982; Moulton & Stewart, 1996);  
 NB (Ross, 1944; Moulton & Stewart, 1996; Zhou, 2011);  
 NC (Banks, 1908; Brimley, 1938; Morse, Hamilton, & Hoffman, 1989;  
 Moulton & Stewart, 1996; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010;  
 Zhou, 2011);  
 ND (Harris, Lago, & Carlson, 1980; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NE (Ross, 1944; Moulton & Stewart, 1996; Harris, Kondratieff, & Boyle, 2000;  
 Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Marshall & Larson, 1982; Moulton & Stewart, 1996; Zhou, 2011);  
 NH (Ross, 1944; Morse & Blicke, 1953);  
 NJ (Smith, 1900; Smith, 1910; Ross, 1941; Zhou, 2011);  
 NM (Ruiter, 1999);  
 NS (Banks, 1930; Ross, 1944; Moulton & Stewart, 1996; Zhou, 2011);  
 NT (Nimmo, 1986; Moulton & Stewart, 1996);  
 NV (Ruiter, Baumann, & Flint, 2014);  
 NY (Banks, 1899; Ross, 1944; Bilger, 1986; Zhou, 2011;  
 Myers, Kondratieff, Mihuc, & Ruiter, 2011; Tozer, 2018);  
 OH (Marshall, 1939; Ross, 1944; Petersen & Foote, 1980; Huryn & Foote, 1983;  
 MacLean & MacLean, 1984; Usis & MacLean, 1986; Garono & MacLean, 1988;  
 Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Ross, 1944; Sublette, 1957; Bowles & Mathis, 1992; Moulton & Stewart, 1996);

Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006);  
 ON (Ricker, 1934; Ross, 1944; Sprules, 1947; Munroe, 1951; Harper, 1989;  
 Moulton & Stewart, 1996; Zhou, 2011);  
 OR (Ross, 1944; Anderson, 1976; Anderson, Cooper, & Denning, 1982;  
 Moulton & Stewart, 1996; Zhou, 2011);  
 PA (Ross, 1941; Ross, 1944; Swegman, Walker, & Sykora, 1981; Masteller & Flint, 1992;  
 Moulton & Stewart, 1996; Robinson, Wetzel, & Tiemann, 2017);  
 QC (Ross, 1944; Robert, 1958; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1975;  
 Roy & Harper, 1979; Williams & Williams, 1979; Harper, 1989;  
 Moulton & Stewart, 1996; Zhou, 2011);  
 RI (Hunt, 2017);  
 SC (Ross, 1944; Morse, Chapin, Herlong, & Harvey, 1980;  
 Morse, Hamilton, & Hoffman, 1989; Floyd & Morse, 1993;  
 Moulton & Stewart, 1996; Zhou, 2011);  
 SD (Ross, 1944; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 SK (Milne, 1943; Ross, 1944; Flannagan & MacDoanld, 1987;  
 Moulton & Stewart, 1996; Zhou, 2011);  
 TN (Edwards, 1955; Edwards, 1966; Etnier & Schuster, 1979;  
 Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998;  
 DeWalt & Heinold, 2005; Etnier, Bauer, & Zirkle, 2006; Zhou, 2011);  
 TX (Banks, 1907; Tucker, 1908; Ross, 1941; Ross, 1944; Hall, 1950; Edwards, 1973;  
 Moulton & Stewart, 1996; Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997;  
 Bowles, Tiemann, & Easley, 2007; Zhou, 2011);  
 UT (Knowlton & Harmston, 1939; Ross, 1944; Baumann & Unzicker, 1981;  
 Moulton & Stewart, 1996);  
 VA (Banks, 1904; Ross, 1944; Parker & Voshell, 1981; Hoffman & Parker, 1997;  
 Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2008; Zhou, 2011; Flint, 2011);  
 VT (Wimmer, 1979; Moulton & Stewart, 1996; Zhou, 2011);  
 WA (Newell, Ruiter, & Strenge, 2001; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005;  
 Zack, Ruiter, Strenge, & Landolt, 2006; Zhou, 2011; Blinn & Ruiter, 2013);  
 WI (Betten, 1934; Ross, 1944; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973;  
 Hilsenhoff, 1975; Steven & Hilsenhoff, 1984; Lillie & Hilsenhoff, 1992;  
 Hilsenhoff, 1995; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Glover & Tarter, 1990; Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016);  
 WY (Ruiter & Lavigne, 1985; Moulton & Stewart, 1996);  
 YT (Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997; Moulton & Stewart, 1996);  
 Bahamas (Bueno-Soria & Flint, 1978; Moulton & Stewart, 1996; Botosaneanu, 2002);  
 Colombia (Bueno-Soria & Flint, 1978; Moulton & Stewart, 1996);  
 Costa Rica (Bueno-Soria & Flint, 1978; Moulton & Stewart, 1996);  
 Cuba (Ross, 1944; Bueno-Soria & Flint, 1978; Moulton & Stewart, 1996;  
 Botosaneanu, 2002);  
 El Salvador (Bueno-Soria & Flint, 1978; Moulton & Stewart, 1996);  
 Grand Cayman (Botosaneanu, 2002);  
 Guatemala (Bueno-Soria & Flint, 1978; Moulton & Stewart, 1996);  
 Haiti (Botosaneanu, 2002);  
 Honduras (Bueno-Soria & Flint, 1978; Moulton & Stewart, 1996);  
 Jamaica (Bueno-Soria & Flint, 1978; Moulton & Stewart, 1996;  
 Botosaneanu, 2002);  
 Mexico (Ross, 1944; Ross, 1951; Moulton & Stewart, 1996);  
 Panama (Bueno-Soria & Flint, 1978; Moulton & Stewart, 1996);  
 Puerto Rico (Denning, 1948; Bueno-Soria & Flint, 1978; Moulton & Stewart, 1996;  
 Botosaneanu, 2002);  
 Trinidad (Botosaneanu, 2002);

Venezuela (Bueno-Soria & Flint, 1978; Moulton & Stewart, 1996)  
 Canada, USA, Mexico, Central America, Amazon Basin (Botosaneanu, 2002).

*Oecetis morsei* Bueno-Soria, 1981, SC;  
 larva (Floyd, 1995);  
 AL (Harris, Lago, & O'Neil, 1984; Harris & Lago, 1990;  
     Harris, 1990; Harris, O'Neil, & Lago, 1991);  
 FL (Harris, Lago, & Scheiring, 1982; Pescador, Rasmussen, & Harris, 1995, 2004);  
 SC (Bueno-Soria, 1981; Floyd, 1995).

*Oecetis nocturna* Ross, 1966, MO;  
 larva (Floyd, 1995);  
 male genitalia (Houghton, 2012);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 OK/TX (Resh, White, & White, 1978);  
 AL (Ross, 1966; Harris et al. 1983; Harris, Lago, & O'Neil, 1984; Harris, 1987;  
     Harris & Lago, 1990; Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991;  
     Moulton & Stewart, 1996; Hicks & Haynes, 2000a;  
     Hicks & Haynes, 2000b; Harris & O'Neil, 2015; Denson, Rasmussen, & Harris, 2016);  
 AR (Ross, 1966; Unzicker, Aggus, & Warren, 1970; Bowles & Mathis, 1989;  
     Moulton & Stewart, 1996; Bowles, Cheri, Usrey, & Williams, 2020);  
 DC (Ross, 1966; Moulton & Stewart, 1996);  
 DE (Floyd, 1995);  
 FL (Floyd, 1995; Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004; Zhou, 2011;  
     Denson, Rasmussen, & Harris, 2016);  
 GA (Frazer, Harris, & Ward, 1991; Floyd, 1995; Moulton & Stewart, 1996; Zhou, 2011);  
 IA (Blinn, Ruiter, & Flint, 2009;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1966; Harris, 1971; Floyd, 1995; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1966; Waltz & McCafferty, 1983; Floyd, 1995; Moulton & Stewart, 1996;  
     DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton, Schuster, DuBoise, 1983; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Haag, Resh, & Neff, 1984; Floyd & Schuster, 1990;  
     Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006;  
     Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996);  
 MB (Floyd, 1995);  
 MD (Floyd, 1995; Flint, 2008);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton, 2022;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001; Zhou, 2011;  
     Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Ross, 1966; Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996);  
 NC (Floyd, 1995; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 ND (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Huryn & Foote, 1983; MacLean & MacLean, 1984; Usis & MacLean, 1986;  
     Garono & MacLean, 1988; Moulton & Stewart, 1996; Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);



OK (Ross, 1966; Bowles & Mathis, 1992; Moulton & Stewart, 1996;  
 Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006);  
 ON (Floyd, 1995);  
 PA (Ross, 1966; Masteller & Flint, 1992; Floyd, 1995; Moulton & Stewart, 1996);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979; Harper, 1989; Moulton & Stewart, 1996);  
 SC (Morse, Hamilton, & Hoffman, 1989; Floyd, 1995; Moulton & Stewart, 1996;  
 Floyd, Morse, & Harris, 1997; Zhou, 2011);  
 TN (Ross, 1966; Etnier & Schuster, 1979; Floyd, 1995; Moulton & Stewart, 1996;  
 Etnier, Baxter, Fraley, & Parker, 1998; Etnier, Bauer, & Zirkle, 2006);  
 TX (Floyd, 1995; Moulton & Stewart, 1996; Abbott, Stewart, & Moulton, 1997;  
 Moulton & Stewart, 1997);  
 VA (Parker & Voshell, 1981; Hoffman & Parker, 1997; Moulton & Stewart, 1996;  
 Flint, Hoffman, & Parker, 2008; Flint, 2011);  
 VT (Wimmer, 1979; Moulton & Stewart, 1996);  
 WI (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Glover & Tarter, 1990; Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016).  
*Oecetis ochracea* Curtis, 1825, Britain;  
*Oecetis ochracea carri* Milne, 1934, AB (Ross, 1944);  
*Oecetis albescens* Mosely, 1930, Switzerland (Botosaneanu & Malicky, 1978);  
 male & female genitalia (Ross, 1944);  
 larva, pupa, case (Lepneva, 1966/71);  
 larval maxilla (Hickin, 1967);  
 habitus, wings, male & female genitalia (Tobias & Tobias, 1981);  
 fossil larval frontoclypeus (Wilkinson, 1984);  
 larva (Floyd, 1995);  
 male genitalia (Houghton, 2012);  
 photo of larva & case (Ruiter, Boyle, & Zhou, 2013);  
 AB (Milne, 1934; Ross, 1944; Floyd, 1995);  
 AK (Ross, 1944; Floyd, 1995);  
 BC (Nimmo & Scudder, 1978);  
 CA (Denning, 1956; Resh & Mendez, 2022);  
 CO (Herrmann, Ruiter, & Unzicker, 1986; Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MB (Neave, 1934; Milne, 1934; Ross, 1944; Flannagan & Flannagan, 1982; Chatila-Amos, 2021);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Ross, 1944; Etnier, 1965; Floyd, 1995; MacLean, 1995; Monson, 1997;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Newell & Potter, 1973; Roemhild, 1982; Jones & Resh, 1988);  
 NC (Floyd, 1995; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 ND (Harris, Lago, & Carlson, 1980;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NT (Floyd, 1995);  
 OH (Garono & MacLean, 1988; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Floyd, 1995);  
 SD (Ross, 1944;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 SK (Milne, 1934; Milne, 1943; Ross, 1944; Floyd, 1995);  
 TN (Edwards, 1955; Edwards, 1956; Edwards, 1966; Etnier & Schuster, 1979; Floyd, 1995;  
 Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Parker & Voshell, 1981; Floyd, 1995);

not in VA according to Flint, Hoffman, & Parker, 2008);  
 WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hilsenhoff, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WY (Milne, 1934; Ross, 1944; Ruitter & Lavigne, 1985);  
 YT (Floyd, 1995; Wiggins & Parker, 1997);  
 Britain (Curtis, 1825; Hickin, 1967);  
 Europe, the Caucasus, Middle Asia, Siberia, Mongolia  
 (Lepneva, 1966/71);  
 Europe (Tobias & Tobias, 1981).  
 Oecetis osteni Milne, 1934, NY;  
 male & female genitalia (Ross, 1944);  
 male genitalia (Marshall & Larson, 1982);  
 larva (Floyd, 1995);  
 male genitalia (Houghton, 2012);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris et al, 1983; Harris, Lago, & O'Neil, 1984; Harris, 1987; Harris & Lago, 1990;  
 Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Floyd, 1995;  
 Moulton & Stewart, 1996; Hicks & Haynes, 2000b; Harris & O'Neil, 2015;  
 Denson, Rasmussen, & Harris, 2016);  
 AR (Moulton & Stewart, 1996);  
 CT (Harris, O'Neil, & Lago, 1991; Nelson & Downs, 1995; Moulton & Stewart, 1996);  
 FL (Frost, 1966; Harris, Lago, & Scheiring, 1982; Gordon, 1984; Floyd, 1995;  
 Pescador, Rasmussen, & Harris, 1995, 2004; Moulton & Stewart, 1996;  
 Rasmussen, 2004; Denson, Rasmussen, & Harris, 2016);  
 IL (Ross, 1944; Floyd, 1995; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996);  
 MA (Milne, 1934; Neves, 1979; Moulton & Stewart, 1996; Whitmore 2008);  
 ME (Procter, 1946; Blickle & Morse, 1966; Moulton & Stewart, 1996; Huryn & Harris, 2000);  
 MI (Ross, 1944; Davis, Hudson, & Armitage, 1991; Moulton & Stewart, 1996;  
 Houghton, Brandin, & Brakel, 2011; DeWalt & South, 2015; Houghton, 2016;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Ross, 1944; Etnier, 1965; Floyd, 1995; Moulton & Stewart, 1996; Monson, 1997;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996);  
 NB (Ross, 1944; Moulton & Stewart, 1996);  
 NC (Floyd, 1995; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 NF (Marshall & Larson, 1982; Moulton & Stewart, 1996);  
 NH (Ross, 1944; Morse & Blickle, 1953; Moulton & Stewart, 1996);  
 NJ (Milne, 1934; Moulton & Stewart, 1996);  
 NY (Milne, 1934; Floyd, 1995; Moulton & Stewart, 1996;  
 Myers, Kondratieff, Mihuc, & Ruitter, 2011);  
 OH (McElravy, Arsuffi, & Foote, 1977; Hurrin & Foote, 1983; Garono & MacLean, 1988;  
 Moulton & Stewart, 1996; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Moulton & Stewart, 1996);  
 ON (Milne, 1934; Floyd, 1995; Moulton & Stewart, 1996);  
 PA (Hyland, 1948; Masteller & Flint, 1992; Moulton & Stewart, 1996);  
 QC (Milne, 1934; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1979;  
 Moulton & Stewart, 1996);

- RI (Floyd, 1995; Hunt, 2017);  
 SC (Morse, Chapin, Herlong, & Harvey, 1980; Floyd, 1995; Moulton & Stewart, 1996);  
 TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);  
 VA (Milne, 1934; Hoffman & Parker, 1997; Moulton & Stewart, 1996;  
 Flint, Hoffman, & Parker, 2008);  
 WI (Ross, 1944; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hilsenhoff, 1995;  
 Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Oecetis ouachita* Moulton & Stewart, 1993, AR;  
 AR (Moulton & Stewart, 1993; Moulton & Stewart, 1996);  
 OK (Moulton & Stewart, 1993; Moulton & Stewart, 1996).
- Oecetis ozarkensis* Moulton & Stewart, 1993, AR;  
 AR (Moulton & Stewart, 1993; Moulton & Stewart, 1996; Etnier, 2010);  
 MO (Moulton & Stewart, 1993; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Oecetis parva* (Banks, 1907), Setodina, FL;  
 larva (Floyd, 1995);  
 male & female genitalia (Burlington, Morse, & McArthur, 2012 ("2011"));  
 AL (Harris, O'Neil, & Lago, 1991; Burlington, Morse, & McArthur, 2012 ("2011"));  
 FL (Banks, 1907; Gordon, 1984; Floyd, 1995; Pescador, Rasmussen, & Harris, 1995, 2004;  
 Burlington, Morse, & McArthur, 2012 ("2011"); Denson, Rasmussen, & Harris, 2016);  
 GA (Burlington, Morse, & McArthur, 2012 ("2011"));  
 SC (Burlington, Morse, & McArthur, 2012 ("2011")).
- Oecetis persimilis* (Banks, 1907), *Oecetina*, MD;  
 male & female genitalia (Ross, 1944);  
 male genitalia (Marshall & Larson, 1982; Houghton, 2012);  
 larva (Floyd, 1995);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris et al, 1983; Harris, Lago, & O'Neil, 1984; Harris, 1987; Harris & Lago, 1990;  
 Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Floyd, 1995;  
 Moulton & Stewart, 1996; Hicks & Haynes, 2000a; Hicks & Haynes, 2000b;  
 Harris & O'Neil, 2015; Denson, Rasmussen, & Harris, 2016);  
 AR (Unzicker, Aggus, & Warren, 1970; Bowles & Mathis, 1989; Floyd, 1995;  
 Moulton & Stewart, 1996; Bowles, Cheri, Usrey, & Williams, 2020);  
 CT (Harris, O'Neil, & Lago, 1991; Nelson & Downs, 1995; Moulton & Stewart, 1996);  
 DE (Lake, 1984; Moulton & Stewart, 1996);  
 FL (Gordon, 1984; Floyd, 1995; Pescador, Rasmussen, & Harris, 1995, 2004;  
 Moulton & Stewart, 1996; Rasmussen, 2004; Denson, Rasmussen, & Harris, 2016);  
 GA (Ross, 1944; Frazer, Harris, & Ward, 1991; Moulton & Stewart, 1996; Zhou, 2011);  
 IL (Ross, 1944; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Floyd, 1995; Moulton & Stewart, 1996;  
 DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton, Schuster, & DuBois, 1983; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Ross, 1944; Resh, 1975; Haag, Resh, & Neff, 1984; Floyd & Schuster, 1990; Floyd, 1995;  
 Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996);  
 MA (Neves, 1979; Moulton & Stewart, 1996; Whitmore 2008);  
 MD (Banks, 1907; Floyd, 1995; Moulton & Stewart, 1996; Flint, 2008);  
 ME (Procter, 1946; Blicke & Morse, 1966; Mingo & Gibbs, 1980;  
 Bilger, 1986; Floyd, 1995; Moulton & Stewart, 1996; Huryn & Harris, 2000);

- MI (Leonard & Leonard, 1949; Floyd, 1995;  
Moulton & Stewart, 1996; Houghton, Brandin, & Brakel, 2011;  
Wright, Pytel, & Houghton, 2013; Houghton, 2015; Houghton, 2016;  
Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
Houghton, 2022;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MN (Etnier, 1965; Harris, O'Neil, & Lago, 1991; Floyd, 1995; MacLean, 1995;  
Moulton & Stewart, 1996; Ruiter, 1996; Monson, 1997;  
Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2004a; Zhou, 2011;  
Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007; Bowles, 2020;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MS (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996);
- NC (Morse, Hamilton, & Hoffman, 1989; Floyd, 1995; Moulton & Stewart, 1996;  
DeWalt, Jacobus, & McCafferty, 2007;  
Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Zhou, 2011);
- NF (Marshall & Larson, 1982; Moulton & Stewart, 1996);
- NH (Morse & Blickle, 1953; Moulton & Stewart, 1996);
- NJ (Floyd, 1995);
- NY (Banks, 1907; Moulton & Stewart, 1996; Myers, Kondratieff, Mihuc, & Ruiter, 2011;  
Tozer, 2018);
- OH (Marshall, 1939; Huryn & Foote, 1983; Floyd, 1995; Moulton & Stewart, 1996;  
Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- OK (Bowles & Mathis, 1992; Floyd, 1995; Moulton & Stewart, 1996;  
Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006);
- ON (Munroe, 1951; Floyd, 1995; Moulton & Stewart, 1996);
- PA (Masteller & Flint, 1979; Masteller & Flint, 1992; Floyd, 1995; Moulton & Stewart, 1996);
- QC (Robert, 1958; Roy & Harper, 1975; Roy & Harper, 1979; Moulton & Stewart, 1996);
- SC (Morse, Chapin, Herlong, & Harvey, 1980; Morse, Hamilton, & Hoffman, 1989; Floyd, 1995;  
Moulton & Stewart, 1996; Floyd, Morse, & Harris, 1997; Zhou, 2011);
- TN (Ross, 1944; Edwards, 1966; Etnier & Schuster, 1979; Moulton & Stewart, 1996;  
Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005;  
Etnier, Bauer, & Zirkle, 2006);
- TX (Edwards, 1973; Floyd, 1995; Moulton & Stewart, 1996;  
Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997; Bowles, Tiemann, &  
Easley, 2007);
- VA (Banks, 1907; Parker & Voshell, 1981; Floyd, 1995; Hoffman & Parker, 1997;  
Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2008; Zhou, 2011; Flint, 2011);
- VT (Wimmer, 1979; Moulton & Stewart, 1996);
- WI (Ross, 1944; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
Floyd, 1995; Hilsenhoff, 1995; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- WV (Glover & Tarter, 1990; Tarter, 1990; Floyd, 1995; Moulton & Stewart, 1996;  
Tarter & Floyd, 2016).
- Oecetis porteri* Ross, 1947, FL;  
larva (Floyd, 1995);  
AL (Floyd, 1995);  
FL (Ross, 1947; Gordon, 1984; Floyd, 1995;  
Pescador, Rasmussen, & Harris, 1995, 2004; Denson, Rasmussen, & Harris, 2016);  
NC (Floyd, 1995; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
NS (Floyd, 1995);  
SC (Floyd, 1995).
- Oecetis pratelia* Denning, 1948, FL;

- FL (Denning, 1948; Gordon, 1984; Pescador, Rasmussen, & Harris, 1995, 2004).
- Oecetis psammophila* Flint, Floyd, & Moulton, 2016, SC;  
wings, male & female genitalia (Flint, Floyd, & Moulton, 2016);  
SC (Flint, Floyd, & Moulton, 2016).
- Oecetis scala* Milne, 1934, MD;  
NC/SC (Unzicker, Resh, & Morse, 1982);  
AL (Harris, Lago, & O'Neil, 1984; Harris & Lago, 1990;  
Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991);  
AR (Bowles & Mathis, 1989);  
KY (Houp, 1999; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MD (Milne, 1934);  
NC (Milne, 1934; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
NH (Morse & Blickle, 1953);  
NJ (Milne, 1934);  
NY (Myers, Kondratieff, Mihuc, & Ruitter, 2011);  
PA (Ross, 1944; Masteller & Flint, 1992);  
QC (Roy & Harper, 1975; Roy & Harper, 1979);  
SC (Moulton & Stewart, 1993).
- Oecetis sordida* Blahnik & Holzenthal, 2014, SD;  
larva, pupa, photos of larval and pupal cases, male and female  
genitalia (Smith & Lehmkuhl, 1980b, as *Oecetis disjuncta* (Banks));  
larva (Floyd, 1995, as *Oecetis disjuncta* (Banks));  
male genitalia (Houghton, 2012, as *Oecetis disjuncta* (Banks));  
AB (Floyd, 1995);  
AZ (Floyd, 1995; Ruitter, 1996; Houghton, 2001; Blinn & Ruitter, 2006; Blinn & Ruitter, 2009a;  
Blinn & Ruitter, 2009b; Blinn, Ruitter, & Haden, 2012; Blahnik & Holzenthal, 2014);  
CA (Smith & Lehmkuhl, 1980b; Floyd, 1995; Resh & Mendez, 2022);  
CO (Herrmann, Ruitter, & Unzicker, 1986; Floyd, 1995; Ruitter, 1996;  
Zuellig, Heinold, Kondratieff, & Ruitter, 2012);  
ID (Floyd, 1995);  
MB (Floyd, 1995);  
MI (Smith & Lehmkuhl, 1980b; Floyd, 1995; Houghton, Brandin, & Brakel, 2011;  
Houghton, 2022;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MN (Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
Blahnik & Holzenthal, 2014;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MT (Roemhild, 1982; Blahnik & Holzenthal, 2014);  
NM (Waltz & McCafferty, 1983; Floyd, 1995; Vieira, Kondratieff, Ruitter, & Durfee, 2009;  
Blinn & Ruitter, 2009a);  
NV (Ruitter, Baumann, & Flint, 2014, as *Oecetis disjuncta* (Banks));  
ON (Floyd, 1995);  
OR (Smith & Lehmkuhl, 1980b; Floyd, 1995);  
SD (Smith & Lehmkuhl, 1980b; Blahnik & Holzenthal, 2014;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
SK (Smith & Lehmkuhl, 1980b; Floyd, 1995);  
TX (Moulton & Stewart, 1997);  
UT (Smith & Lehmkuhl, 1980b; Floyd, 1995);  
WI (Floyd, 1995;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
WY (Ruitter & Lavigne, 1985; Floyd, 1995; Ruitter, 1996; Blahnik & Holzenthal, 2014);
- Oecetis sphyra* Ross, 1941, GA;  
NC/SC (Unzicker, Resh, & Morse, 1982);  
AL (Harris et al, 1983; Harris, Lago, & O'Neil, 1984; Harris, 1987; Harris & Lago, 1990);

- Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991;  
Hicks & Haynes, 2000a; Hicks & Haynes, 2000b; Harris & O'Neil, 2015);  
FL (Harris, Lago, & Scheiring, 1982; Gordon, 1984; Pescador, Rasmussen, & Harris, 1995, 2004;  
Rasmussen, 2004; Denson, Rasmussen, & Harris, 2016);  
GA (Ross, 1941);  
KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
LA (Holzenthal, Harris, & Lago, 1982);  
MS (Holzenthal, Harris, & Lago, 1982);  
NC (Moulton & Stewart, 1993; Floyd, 1995;  
Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
SC (Morse, Hamilton, & Hoffman, 1989; Floyd, 1995; Floyd, Morse, & Harris, 1997);  
TN (Etnier & Schuster, 1979; Etnier, Baxter, Fraley, & Parker, 1998);  
TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);  
VA (Parker & Voshell, 1981; Hoffman & Parker, 1997; Flint, Hoffman, & Parker, 2008).
- Setodes arenatus* Holzenthal, 1982, SC;  
NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
SC (Holzenthal, 1982).
- Setodes chipolanus* Rasmussen & Harris, 2008, in Rasmussen, Harris, & Denson, 2008, FL;  
FL (as *Setodes* n sp in Pescador, Rasmussen, & Harris, 1995, 2004;  
Rasmussen, Harris, & Denson, 2008; Denson, Rasmussen, & Harris, 2016).
- Setodes dixiensis* Holzenthal, 1982, MS;  
AL (Holzenthal, 1982; Harris, Lago, & O'Neil, 1984; Harris & Lago, 1990; Harris, 1990;  
Harris, O'Neil, & Lago, 1991);  
LA (Holzenthal, 1982; Holzenthal, Harris, & Lago, 1990);  
MS (Holzenthal, 1982; Holzenthal, Harris, & Lago, 1982).
- Setodes epicampes* Edwards, 1956, TN;  
male & female genitalia (Holzenthal, 1982);  
AL (Harris, O'Neil, & Lago, 1991);  
KY (Etnier, Bauer, & Zirkle, 2006; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
TN (Edwards, 1956; Holzenthal, 1982; Etnier, Baxter, Fraley, & Parker, 1998).
- Setodes guttatus* (Banks, 1900), Oecetina, NJ;  
male genitalia (Flint, 1966);  
male genitalia (Holzenthal, 1982);  
female genitalia (Holzenthal & Harris, 1985);  
AL (Harris, Lago, & O'Neil, 1984; Holzenthal & Harris, 1985; Harris & Lago, 1990; Harris, 1990;  
Harris, O'Neil, & Lago, 1991);  
CT (Holzenthal, 1982; Nelson & Downs, 1995);  
DC (Betten, 1934; Holzenthal, 1982);  
FL (Pescador, Rasmussen, & Harris, 1995, 2004; Denson, Rasmussen, & Harris, 2016);  
MD (Banks, 1904; Banks, 1907; Holzenthal, 1982);  
ME (Holzenthal, 1982);  
MN (Etnier, 1965, misidentification according to  
Houghton, Holzenthal, Monson, & MacLean, 2001);  
NJ (Banks, 1900; Smith, 1910; Holzenthal, 1982);  
PA (Holzenthal, 1982; Masteller & Flint, 1992);  
QC (Holzenthal, 1982);  
VA (Flint, Hoffman, & Parker, 2008; Flint, 2011);  
WV (Tarter & Floyd, 2016).
- Setodes incertus* (Walker, 1852), *Leptocerus*, ON;  
*Setodes autumnalis* Banks, 1907, MD (Holzenthal, 1982);  
*Setodes vernalis* Banks, 1907, MD (Milne, 1934);  
larva, pupa, case (Merrill & Wiggins, 1971);

male & female genitalia (Merrill & Wiggins, 1971;  
     Holzenthal, 1982);  
 larva, case (Wiggins, 1977);  
 male genitalia (Houghton, 2012);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris & Lago, 1990; Harris, 1990; Harris, O'Neil, & Lago, 1991);  
 CT (Britton, 1920; Holzenthal, 1982; Nelson & Downs, 1995);  
 GA (Holzenthal, 1982);  
 KY (Resh, 1975; Holzenthal, 1982; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Neves, 1979);  
 MD (Holzenthal, 1982);  
 ME (Blickle & Morse, 1966; Mingo & Gibbs, 1980; Holzenthal, 1982;  
     Bilger, 1986; Hury & Harris, 2000);  
 MI (Leonard & Leonard, 1949; Ellis, 1962; Merrill & Wiggins, 1971; Wiggins, 1977;  
     Holzenthal, 1982; Davis, Hudson, & Armitage, 1991;  
     Houghton, Brandin, & Brakel, 2011; Wright, Pytel, & Houghton, 2013; Houghton, 2016;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton & Lardner, 2020; Houghton, 2021; Houghton, 2022;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Holzenthal, 1982;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012; Houghton, 2021;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Wray, 1950; Holzenthal, 1982; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Morse & Blickle, 1953; Holzenthal, 1982);  
 NJ (Smith, 1910);  
 NY (Betten, 1926; Holzenthal, 1982; Myers, Kondratieff, Mihuc, & Ruiter, 2011; Tozer, 2018);  
 ON (Walker, 1852; Munroe, 1951; Holzenthal, 1982; Harper, 1989);  
 PA (Hyland, 1948; Holzenthal, 1982; Masteller & Flint, 1992);  
 QC (Robert, 1958; Roy & Harper, 1975; Roy & Harper, 1979; Holzenthal, 1982; Harper, 1989);  
 SC (Holzenthal, 1982; Morse, Hamilton, & Hoffman, 1989; Floyd, Morse, & Harris, 1997);  
 TN (Holzenthal, 1982; Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Parker & Voshell, 1981; Holzenthal, 1982; Flint, Hoffman, & Parker, 2008; Flint, 2011);  
 WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Holzenthal, 1982;  
     Hilsenhoff, 1995; Houghton, 2021;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Glover & Tarter, 1990; Tarter, 1990; Tarter & Floyd, 2016).  
 Setodes oligius (Ross, 1938), Leptocerus, IL;  
     wings, male & female genitalia (Schmid, 1980);  
     male & female genitalia (Holzenthal, 1982);  
     male genitalia (Houghton, 2012);  
 IL (Ross, 1938; Holzenthal, 1982;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Holzenthal, 1982; Waltz & McCafferty, 1983;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ME (Blickle & Morse, 1966; Holzenthal, 1982);  
 MI (Ross, 1944; Munroe, 1951; Holzenthal, 1982; Davis, Hudson, & Armitage, 1991;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton, 2021;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012; Houghton, 2021;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NY (Holzenthal, 1982);  
 ON (Ross, 1944; Munroe, 1951; Holzenthal, 1982);  
 PA (Masteller & Flint, 1979; Masteller & Flint, 1992);

- QC (Nimmo, 1966; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1979; Holzenthal, 1982);  
 TN (Edwards, 1966; Etnier & Schuster, 1979; Holzenthal, 1982;  
 Etnier, Baxter, Fraley, & Parker, 1998);  
 WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Holzenthal, 1982;  
 Hilsenhoff, 1995; Houghton, 2021;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Setodes oxapius* (Ross, 1938), *Leptocerus*, OK;  
 male & female genitalia (Holzenthal, 1982);  
 AR (Unzicker, Aggus, & Warren, 1970; Holzenthal, 1982; Bowles & Mathis, 1989;  
 Moulton & Stewart, 1996; Bowles, Cheri, Usrey, & Williams, 2020);  
 MO (Holzenthal, 1982; Mathis & Bowles, 1992; Moulton & Stewart, 1996;  
 Ferro & Sites, 2007; Etnier, 2010;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Ross, 1938; Holzenthal, 1982; Bowles & Mathis, 1992; Bowles & Mathis, 1992;  
 Moulton & Stewart, 1996);  
 PA (Masteller & Flint, 1992).
- Setodes stehri* (Ross, 1941), *Leptocerus*, NC;  
 larva (Merrill & Wiggins, 1971);  
 male & female genitalia (Holzenthal, 1982);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris & Lago, 1990; Harris, 1990; Harris, O'Neil, & Lago, 1991);  
 GA (Ross, 1941; Holzenthal, 1982);  
 NC (Ross, 1941; Holzenthal, 1982; Armitage & Tennessen, 1984;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 SC (Merrill & Wiggins, 1971; Holzenthal, 1982; Morse, Hamilton, & Hoffman, 1989);  
 TN (Etnier & Schuster, 1979; Holzenthal, 1982; Etnier, Baxter, Fraley, & Parker, 1998;  
 DeWalt & Heinold, 2005).
- Setodes truncatus* Houghton, 2021, MI;  
 male genitalia (Houghton, 2021);  
 MI (Houghton, 2021; Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Triaenodes aba* Milne, 1935, MA;  
 larva, pupa (Glover, 1996);  
 male genitalia (Houghton, 2012);  
 male head & thorax, male & female genitalia (Manuel, 2010);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris & Lago, 1990; Harris, 1990;  
 Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Manuel, 2010);  
 AR (Unzicker, Aggus & Warren, 1970; Bowles & Mathis, 1989;  
 Moulton & Stewart, 1996; Etnier, 2010; Manuel, 2010);  
 DE (Lake, 1984; Moulton & Stewart, 1996; Manuel, 2010);  
 FL (Gordon, 1984; Pescador, Rasmussen, & Harris, 1995, 2004; Moulton & Stewart, 1996;  
 Rasmussen, 2004; Manuel, 2010; Denson, Rasmussen, & Harris, 2016);  
 GA (Manuel, 2010);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Milne, 1934; Milne, 1935; Moulton & Stewart, 1996; Manuel, 2010;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996; Manuel, 2010;  
 DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Moulton & Stewart, 1996; Manuel, 2010;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996; Manuel, 2010);



MA (Milne, 1935; Neves, 1979; Moulton & Stewart, 1996; Manuel, 2010);  
 MB (Flannagan & Flannagan, 1982; Moulton & Stewart, 1996; Manuel, 2010);  
 ME (Blickle & Morse, 1966; Mingo & Gibbs, 1979; Moulton & Stewart, 1996; Manuel, 2010);  
 MI (Ross, 1944; Glover, 1996; Moulton & Stewart, 1996; Manuel, 2010;  
     Houghton, Brandin, & Brakel, 2011; Houghton, 2016;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton, 2022;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Harris, O'Neil, & Lago, 1991; MacLean, 1995;  
     Moulton & Stewart, 1996; Ruiter, 1996; Monson, 1997;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Manuel, 2010; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996; Manuel, 2010);  
 NC (Lenat, 1987; Moulton & Stewart, 1996;  
     Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Manuel, 2010);  
 NH (Ross, 1944; Morse & Blickle, 1953; Moulton & Stewart, 1996; Manuel, 2010);  
 NY (Manuel, 2010; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (McElravy, Arsuffi, & Foote, 1977; Petersen & Foote, 1980; Huryn & Foote, 1983;  
     MacLean & MacLean, 1984; Usis & MacLean, 1986; Garono & MacLean, 1988;  
     Moulton & Stewart, 1996; Manuel, 2010; Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Ross, 1944; Glover, 1996; Moulton & Stewart, 1996; Manuel, 2010);  
 PA (Masteller & Flint, 1992; Manuel, 2010);  
 QC (Roy & Harper, 1979; Moulton & Stewart, 1996; Manuel, 2010);  
 RI (Hunt, 2017);  
 SC (Morse, Chapin, Herlong & Harvey, 1980; Moulton & Stewart, 1996; Manuel, 2010);  
 TN (Edwards, 1955; Edwards, 1966; Etnier & Schuster, 1979;  
     Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998;  
     Etnier, Bauer, & Zirkle, 2006; Manuel, 2010);  
 VA (Hoffman & Parker, 1997; Flint, Hoffman, & Parker, 2008; Manuel, 2010);  
 WI (Ross, 1944; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hilsenhoff, 1995;  
     Moulton & Stewart, 1996; Manuel, 2010;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).  
*Trienodes baris* Ross, 1938, IL;  
     larva (Glover, 1996);  
     male genitalia (Houghton, 2012);  
     male & female genitalia (Manuel, 2010);  
 AB (Manuel, 2010);  
 BC (Schmid & Guppy, 1952; Ross & Spencer, 1952; Manuel, 2010);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1938; Manuel, 2010;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Manuel, 2010);  
 MB (Flannagan & Flannagan, 1982; Manuel, 2010);  
 ME (Blickle & Morse, 1966; Huryn & Harris, 2000; Manuel, 2010);  
 MI (Leonard & Leonard, 1949; Glover, 1996; Manuel, 2010; Houghton, 2016;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton, 2022;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1968; Glover, 1996;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Manuel, 2010; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Manuel, 2010);  
 NF (Manuel, 2010);  
 NH (Manuel, 2010);

NY (McCabe, 1986; Manuel, 2010);  
 OH (Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Glover, 1996; Manuel, 2010);  
 OR (Manuel, 2010);  
 PA (Hyland, 1948; Masteller & Flint, 1992; Manuel, 2010);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979; Harper, 1989; Manuel, 2010);  
 SK (Manuel, 2010);  
 WA (Blinn & Ruitter, 2013);  
 WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hilsenhoff, 1995;  
     Manuel, 2010;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 YT (Wiggins & Parker, 1997; Manuel, 2010).

*Trienodes bicornus* Manuel, 2010, SC;  
 male & female genitalia (Manuel, 2010);  
 AL (Manuel, 2010);  
 FL (Manuel, 2010);  
 GA (Manuel, 2010);  
 SC (Manuel, 2010).

*Trienodes cumberlandensis* Etnier and Way, 1973, TN;  
 larva (Glover, 1996);  
 male & female genitalia (Manuel, 2010);  
 AL (Harris et al, 1983; Harris, 1987; Harris & Lago, 1990; Frazer, Harris, & Ward, 1991;  
     Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Hicks & Haynes, 2000a;  
     Manuel, 2010);  
 AR (Moulton & Stewart, 1996; Etnier, 2010; Manuel, 2010);  
 GA (Frazer, Harris, & Ward, 1991; Moulton & Stewart, 1996; Manuel, 2010);  
 IL (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Moulton & Stewart, 1996; Manuel, 2010);  
 TN (Etnier & Way, 1973; Glover, 1996; Moulton & Stewart, 1996;  
     Etnier, Baxter, Fraley, & Parker, 1998; Manuel, 2010).

*Trienodes dendyi* Manuel, 2010, FL;  
 male & female genitalia (Manuel, 2010);  
 AL (Manuel, 2010);  
 FL (Manuel, 2010; Jain, Rasmussen, Milla, Richard, & Pescador, 2020);  
 GA (Manuel, 2010);  
 SC (Manuel, 2010).

*Trienodes dipsius* Ross, 1938, OH;  
 male genitalia (Houghton, 2012);  
 male & female genitalia (Manuel, 2010);  
 AL (Harris, 1987; Harris & Lago, 1990; Harris, 1990; Harris, O'Neil, & Lago, 1991;  
     Moulton & Stewart, 1996; Manuel, 2010);  
 AR (Bowles & Mathis, 1989; Moulton & Stewart, 1996; Etnier, 2010; Manuel, 2010);  
 KS (Hamilton, Schuster, & DuBois, 1983; Moulton & Stewart, 1996; Manuel, 2010;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MB (Manuel, 2010);  
 MI (Manuel, 2010; Houghton, Brandin, & Brakel, 2011; Houghton, 2016;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
     Houghton, 2022;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Harris, O'Neil, & Lago, 1991; MacLean, 1995);

Moulton & Stewart, 1996; Monson, 1997;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Manuel, 2010; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ND (Harris, Lago, & Carlson, 1980; Moulton & Stewart, 1996; Manuel, 2010;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NY (Manuel, 2010);  
 OH (Ross, 1938; Huryn & Foote, 1983; MacLean & MacLean, 1984; Usis & MacLean, 1986;  
 Moulton & Stewart, 1996; Manuel, 2010; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Bowles & Mathis, 1992; Moulton & Stewart, 1996; Manuel, 2010);  
 ON (Manuel, 2010);  
 PA (Swegman, Walker, & Sykora, 1981; Masteller & Flint, 1992;  
 Moulton & Stewart, 1996; Manuel, 2010);  
 QC (Nimmo, 1966; Corbet, Schmid, & Augustin, 1966;  
 Roy & Harper, 1979; Moulton & Stewart, 1996; Manuel, 2010);  
 TN (Etnier, Baxter, Fraley, & Parker, 1998; Manuel, 2010);  
 VA (Flint, Hoffman, & Parker, 2008; Manuel, 2010);  
 WI (Steven & Hilsenhoff, 1984; Moulton & Stewart, 1996; Manuel, 2010;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Tarter & Floyd, 2016).  
*Trienodes flavescens* Banks, 1900, NJ;  
*Trienodes borealis* Banks, 1900, MN (Manuel, 2010);  
 larva, pupa (Glover, 1996);  
 male genitalia (Houghton, 2012);  
 male & female genitalia (Manuel, 2010);  
 OK/TX (Resh, White, & White, 1978);  
 AL (Harris & Lago, 1990; Harris, 1990; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996;  
 Manuel, 2010);  
 BC (Glover, 1996; Manuel, 2010);  
 CT (Downs & Godwin, 1987; Nelson & Downs, 1995; Moulton & Stewart, 1996; Manuel, 2010);  
 FL (Banks, 1900; Glover, 1996; Pescador, Rasmussen, & Harris, 1995, 2004;  
 Moulton & Stewart, 1996; Manuel, 2010);  
 GA (Manuel, 2010);  
 IL (Ross, 1944; Moulton & Stewart, 1996; Manuel, 2010;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996; Manuel, 2010;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Moulton & Stewart, 1996; Manuel, 2010;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MD (Flint, 2008; Manuel, 2010);  
 ME (Johnson, 1927; Procter, 1946; Blicke & Morse, 1966; Moulton & Stewart, 1996;  
 Huryn & Harris, 2000; Manuel, 2010);  
 MI (Harris, O'Neil, & Lago, 1991; Davis, Hudson, & Armitage, 1991; Moulton & Stewart, 1996;  
 Manuel, 2010;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Banks, 1900; Etnier, 1965; Harris, O'Neil, & Lago, 1991; MacLean, 1995; Glover, 1996;  
 Moulton & Stewart, 1996; Monson, 1997;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Manuel, 2010; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Etnier, 2010; Manuel, 2010;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996; Manuel, 2010);  
 NC (Glover, 1996; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010; Manuel, 2010);  
 NJ (Banks, 1900; Smith, 1900; Smith, 1910; Moulton & Stewart, 1996; Manuel, 2010);

NY (Betten, 1934; Moulton & Stewart, 1996; Manuel, 2010);  
 OH (Marshall, 1939; Petersen & Foote, 1980; Huryn & Foote, 1983; MacLean & MacLean, 1984;  
     Usis & MacLean, 1986; Garono & MacLean, 1988; Moulton & Stewart, 1996;  
     Manuel, 2010; Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Bowles & Mathis, 1992; Moulton & Stewart, 1996; Manuel, 2010);  
 ON (Munroe, 1951; Glover, 1996; Moulton & Stewart, 1996; Manuel, 2010);  
 PA (Ross, 1941; Masteller & Flint, 1992; Moulton & Stewart, 1996; Manuel, 2010);  
 QC (Nimmo, 1966; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1979;  
     Moulton & Stewart, 1996; Manuel, 2010);  
 TN (Etnier & Schuster, 1979; Moulton & Stewart, 1996; Manuel, 2010);  
 TX (Moulton & Stewart, 1996; unconfirmed or dubious according to Moulton & Stewart, 1997;  
     Manuel, 2010);  
 VA (Parker & Voshell, 1981; Glover, 1996; Hoffman & Parker, 1997; Moulton & Stewart, 1996;  
     Flint, Hoffman, & Parker, 2008; Manuel, 2010; Flint, 2011);  
 WI (Muttkowski, 1918; Moulton & Stewart, 1996; Manuel, 2010;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Glover & Tarter, 1990; Tarter, 1990; Moulton & Stewart, 1996; Manuel, 2010;  
     Tarter & Floyd, 2016).

*Triaenodes florida* Ross, 1941, FL;  
   internal female genitalia (Unzicker, 1968);  
   larva, pupa (Glover, 1996);  
   head & antennal scape, male & female genitalia (Manuel, 2010);  
 AL (Harris & Lago, 1990; Harris, 1990;  
     Harris, O'Neil, & Lago, 1991; Glover, 1996; Manuel, 2010);  
 FL (Ross, 1941; Ross, 1959; Frost, 1966; Gordon, 1984; Glover, 1996;  
     Pescador, Rasmussen, & Harris, 1995, 2004; Manuel, 2010;  
     Denson, Rasmussen, & Harris, 2016);  
 GA (Harris, O'Neil, & Lago, 1991; Manuel, 2010).

*Triaenodes frontalis* Banks, 1907, CO;  
   male & female genitalia (Ross, 1944; Manuel, 2010);  
   male genitalia (Manuel & Nimmo, 1984; Houghton, 2012);  
   larva, pupa (Glover, 1996);  
   photos of larva & case, head (Ruiter, Boyle, & Zhou, 2013);  
 AB (Richardson & Clifford, 1986; Glover, 1996; Manuel, 2010);  
 AK (Manuel & Nimmo, 1984; Glover, 1996; Manuel, 2010);  
 AZ (Manuel, 2010);  
 BC (Glover, 1996; Manuel, 2010);  
 CA (Denning, 1956; McElravy & Resh, 1987; Manuel, 2010; Resh & Mendez, 2022);  
 CO (Banks, 1907; Herrmann, Ruiter, & Unzicker, 1986; Ruiter, 1996; Manuel, 2010;  
     Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 ID (Smith, 1969; Newell & Minshall, 1977; Manuel, 2010);  
 MB (Flannagan & Flannagan, 1982; Glover, 1996; Manuel, 2010; Ruiter, Boyle, & Zhou, 2013;  
     Chatila-Amos, 2021);  
 MN (Houghton, Holzenthal, Monson, & MacLean, 2001; Manuel, 2010; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Newell & Potter, 1973; Roemhild, 1982; Manuel, 2010);  
 NM (Smith, 1969; Manuel, 2010);  
 NT (Smith, 1969; Nimmo, 1986; Manuel, 2010);  
 OH (McElravy, Arsuffi, & Foote, doubtful record, Huryn & Foote, 1983; Manuel, 2010;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006; Manuel, 2010);  
 ON (Glover, 1996; Manuel, 2010);  
 OR (Manuel, 2010);  
 SD (Smith, 1969; Manuel, 2010);

- Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 SK (Ross, 1944; Glover, 1996; Manuel, 2010);  
 UT (Smith, 1969; Baumann & Unzicker, 1981; Manuel, 2010);  
 WA (Newell, Ruiter, & Streng, 2001; Zack, Ruiter, Streng, & Landolt, 2006; Manuel, 2010);  
 WI (Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hilsenhoff, 1995; Manuel, 2010;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WY (Smith, 1969; Ruiter & Lavigne, 1985; Manuel, 2010);  
 YT (Glover, 1996; Wiggins & Parker, 1997; Manuel, 2010)  
 Mexico (Baja California, Manuel, 2010).
- Trienodes furcella* Ross, 1959, FL;  
 larva (Glover, 1996);  
 male & female genitalia (Manuel, 2010);  
 FL (Ross, 1959; Gordon, 1984; Glover, 1996;  
 Pescador, Rasmussen, & Harris, 1995, 2004; Manuel, 2010).
- Trienodes helo* Milne, 1934, NC;  
 male genitalia (Flint, 1966; Manuel, 2010);  
 larva, pupa (Glover, 1996);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris & Lago, 1990; Harris, 1990; Harris, O'Neil, & Lago, 1991; Manuel, 2010;  
 Harris & O'Neil, 2015);  
 FL (Harris, Lago, & Scheiring, 1982; Gordon, 1984; Glover, 1996;  
 Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004; Manuel, 2010);  
 GA (Manuel, 2010);  
 NC (Milne, 1934; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Manuel, 2010);  
 OK (Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006);  
 SC (Manuel, 2010).
- Trienodes ignitus* (Walker, 1852), *Leptocerus*, GA;  
*Trienodes dentatus* Banks, 1914, NY (Ross, 1944);  
 larva, pupa (Glover, 1996);  
 male genitalia (Houghton, 2012);  
 male & female genitalia (Manuel, 2010);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Ross, 1944; Harris et al, 1983; Harris, Lago, & O'Neil, 1984;  
 Harris, 1987; Harris & Lago, 1990;  
 Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991;  
 Glover, 1996; Moulton & Stewart, 1996;  
 Hicks & Haynes, 2000a; Hicks & Haynes, 2000b; Manuel, 2010; Harris & O'Neil, 2015;  
 Denson, Rasmussen, & Harris, 2016);  
 AR (Unzicker, Aggus, & Warren, 1970; Bowles & Mathis, 1989; Moulton & Stewart, 1996;  
 Manuel, 2010; Bowles, Cheri, Usrey, & Williams, 2020);  
 CT (Britton, 1938; Manuel, 2010);  
 DE (Lake, 1984; Moulton & Stewart, 1996; Manuel, 2010);  
 FL (Harris, Lago, & Scheiring, 1982; Gordon, 1984; Glover, 1996;  
 Pescador, Rasmussen, & Harris, 1995, 2004; Moulton & Stewart, 1996;  
 Rasmussen, 2004; Manuel, 2010; Zhou, 2011; Denson, Rasmussen, & Harris, 2016);  
 GA (Walker, 1852; Frazer, Harris, & Ward, 1991; Moulton & Stewart, 1996; Manuel, 2010;  
 Zhou, 2011);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1944; Moulton & Stewart, 1996; Manuel, 2010;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996; Manuel, 2010;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Haag, Resh, & Neff, 1984; Floyd & Schuster, 1990;  
 Glover, 1996; Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006; Manuel, 2010;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012);

- Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996; Manuel, 2010);  
 MA (Neves, 1979; Moulton & Stewart, 1996; Whitmore 2008; Manuel, 2010);  
 MD (Glover, 1996; Manuel, 2010);  
 ME (Blickle & Morse, 1966; Mingo & Gibbs, 1980; Bilger, 1986;  
 Moulton & Stewart, 1996; Huryn & Harris, 2000; Manuel, 2010);  
 MI (Leonard & Leonard, 1949; Glover, 1996; Moulton & Stewart, 1996; Manuel, 2010;  
 Houghton, Brandin, & Brakel, 2011; Wright, Pytel, & Houghton, 2013; Houghton, 2016;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001; Manuel, 2010;  
 Zhou, 2011; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007; Manuel, 2010;  
 Bowles, 2020;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996; Manuel, 2010);  
 NC (Armitage & Tennessen, 1984; Morse, Hamilton, & Hoffman, 1989;  
 Glover, 1996; Moulton & Stewart, 1996;  
 Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010; Manuel, 2010; Zhou, 2011);  
 NH (Banks, 1914; Morse & Blickle, 1953; Moulton & Stewart, 1996; Manuel, 2010);  
 NJ (Smith, 1910; Moulton & Stewart, 1996; Manuel, 2010);  
 NS (Ross, 1944; Manuel, 2010);  
 NY (Banks, 1914; Ross, 1944; McCabe, 1986; Moulton & Stewart, 1996; Manuel, 2010;  
 Myers, Kondratieff, Mihuc, & Ruitter, 2011);  
 OH (McElravy, Arsuffi, & Foote, 1977; Petersen & Foote, 1980; Huryn & Foote, 1983;  
 Garono & MacLean, 1988; Moulton & Stewart, 1996; Manuel, 2010;  
 Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Ross, 1944; Bowles & Mathis, 1992; Moulton & Stewart, 1996; Manuel, 2010);  
 PA (Masteller & Flint, 1992; Manuel, 2010);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979; Moulton & Stewart, 1996; Manuel, 2010);  
 SC (Morse, Chapin, Herlong, & Harvey, 1980; Morse, Hamilton, & Hoffman, 1989;  
 Floyd & Morse, 1993; Glover, 1996; Moulton & Stewart, 1996;  
 Floyd, Morse, & Harris, 1997; Manuel, 2010; Zhou, 2011);  
 TN (Ross, 1944; Edwards, 1955; Edwards, 1966; Etnier & Schuster, 1979; Glover, 1996;  
 Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998;  
 DeWalt & Heinold, 2005; Etnier, Bauer, & Zirkle, 2006; Manuel, 2010);  
 TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997;  
 Bowles, Tiemann, & Easley, 2007; Manuel, 2010);  
 VA (Parker & Voshell, 1981; Glover, 1996; Hoffman & Parker, 1997; Moulton & Stewart, 1996;  
 Flint, Hoffman, & Parker, 2008; Manuel, 2010; Flint, 2011);  
 WI (Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hilsenhoff, 1995;  
 Moulton & Stewart, 1996; Manuel, 2010;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Glover & Tarter, 1990; Tarter, 1990; Moulton & Stewart, 1996; Manuel, 2010;  
 Tarter & Floyd, 2016).
- Triaenodes injustus* (Hagen, 1861), Setodes, Canada;  
*Triaenodes connatus* Ross, 1959, IL (Manuel, 2010);  
 male & female genitalia (Ross, 1944);  
 forewing, male genitalia (Marshall & Larson, 1982);  
 female genitalia (Manuel & Nimmo, 1984);  
 larva, pupa (Glover, 1996);  
 male genitalia (Houghton, 2012);

male & female genitalia (Manuel, 2010);  
 Canada (Hagen, 1861);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 OK/TX (Resh, White, & White, 1978);  
 AB (Richardson & Clifford, 1986; Moulton & Stewart, 1996; Manuel, 2010);  
 AK (Rinella, Bogan, Shaftel, & Merrigan, 2012);  
 AL (Harris et al, 1983; Harris, Lago, & O'Neil, 1984; Harris, 1987; Harris & Lago, 1990;  
     Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Glover, 1996;  
     Moulton & Stewart, 1996; Hicks & Haynes, 2000a; Manuel, 2010);  
 AR (Unzicker, Aggus, & Warren, 1970; Bowles & Mathis, 1989; Glover, 1996;  
     Moulton & Stewart, 1996; Manuel, 2010; Bowles, 2020;  
     Bowles, Cheri, Usrey, & Williams, 2020);  
 BC (Nimmo & Scudder, 1978; Moulton & Stewart, 1996; Manuel, 2010);  
 CT (Ross, 1959; Downs & Godwin, 1987; Nelson & Downs, 1995; Moulton & Stewart, 1996;  
     Manuel, 2010);  
 DC (Manuel, 2010; Manuel, 2010);  
 DE (Lake, 1984; Moulton & Stewart, 1996; Manuel, 2010);  
 FL (Manuel, 2010; Denson, Rasmussen, & Harris, 2016);  
 GA (Manuel, 2010);  
 IL (Ross, 1959; Hagen, 1861; Banks, 1892; Moulton & Stewart, 1996; Manuel, 2010;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Glover, 1996; Moulton & Stewart, 1996; Manuel, 2010;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton, Schuster, & DuBois, 1983; Moulton & Stewart, 1996; Manuel, 2010;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Ross, 1959; Resh, 1975; Etnier & Schuster, 1979; Haag, Resh, & Neff, 1984;  
     Floyd & Schuster, 1990; Glover, 1996; Moulton & Stewart, 1996;  
     Etnier, Bauer, & Zirkle, 2006; Manuel, 2010;  
     Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Neves, 1979; Moulton & Stewart, 1996; Manuel, 2010);  
 MB (Manuel, 2010);  
 MD (Glover, 1996; Flint, 2008; Manuel, 2010);  
 ME (Blickle & Morse, 1966; Moulton & Stewart, 1996; Huryn & Harris, 2000; Manuel, 2010);  
 MI (Leonard & Leonard, 1949; Ellis, 1962;  
     Davis, Hudson, & Armitage, 1991; Glover, 1996;  
     Moulton & Stewart, 1996; Manuel, 2010; Houghton, Brandin, & Brakel, 2011;  
     Wright, Pytel, & Houghton, 2013; DeWalt & South, 2015; Houghton, 2016;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
     Houghton, 2022;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Lager, Johnson, Williams, & McCullough, 1979; MacLean, 1995;  
     Glover, 1996; Moulton & Stewart, 1996; Monson, 1997;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2004a; Manuel, 2010;  
     Zhou, 2011; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007; Manuel, 2010;  
     Bowles, 2020;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Glover, 1996; Manuel, 2010);  
 NC (Lenat, 1983; Glover, 1996; Moulton & Stewart, 1996;  
     Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010; Manuel, 2010);  
 NF (Marshall & Larson, 1982; Moulton & Stewart, 1996; Manuel, 2010);  
 NH (Morse & Blickle, 1953; Glover, 1996; Moulton & Stewart, 1996; Manuel, 2010);  
 NJ (Manuel, 2010);

- NS (Banks, 1907; Moulton & Stewart, 1996; Manuel, 2010);
- NY (Sibley, 1926; Moulton & Stewart, 1996; Manuel, 2010; Zhou, 2011;  
Myers, Kondratieff, Mihuc, & Ruiter, 2011);
- OH (Marshall, 1939; Huryñ & Foote, 1983; Usis & MacLean, 1986; Garono & MacLean, 1988;  
Moulton & Stewart, 1996; Manuel, 2010; Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- OK (Bowles & Mathis, 1992; Glover, 1996; Moulton & Stewart, 1996;  
Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006; Manuel, 2010);
- ON (Glover, 1996; Manuel, 2010; Zhou, 2011);
- OR (Glover, 1996; Manuel, 2010);
- PA (Masteller & Flint, 1979; Masteller & Flint, 1992; Glover, 1996; Moulton & Stewart, 1996;  
Manuel, 2010);
- QC (Robert, 1958; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1975; Roy & Harper, 1979;  
Moulton & Stewart, 1996; Manuel, 2010);
- SC (Manuel, 2010);
- SK (Glover, 1996; Manuel, 2010);
- TN (Edwards, 1966; Etnier & Schuster, 1979; Glover, 1996; Moulton & Stewart, 1996;  
Etnier, Baxter, Fraley, & Parker, 1998; Etnier, Bauer, & Zirkle, 2006; Manuel, 2010);
- TX (Edwards & Arnold, 1961; Edwards, 1973; Moulton & Stewart, 1996;  
Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997;  
Bowles, Tiemann, & Easley, 2007; Manuel, 2010);
- VA (Parker & Voshell, 1981; Glover, 1996; Moulton & Stewart, 1996;  
Flint, Hoffman, & Parker, 2008; Manuel, 2010; Zhou, 2011; Flint, 2011);
- VT (Wimmer, 1979; Moulton & Stewart, 1996; Manuel, 2010);
- WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hilsenhoff, 1995;  
Moulton & Stewart, 1996; Manuel, 2010;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- WV (Glover & Tarter, 1990; Tarter, 1990; Glover, 1996; Moulton & Stewart, 1996;  
Manuel, 2010; Tarter & Floyd, 2016).
- Triaenodes jakutanus* Martynov, 1910, Russia (Siberia);  
*Triaenodes kaszabi* Schmid, 1968, Mongolia (Mey & Dulmaa, 1985);  
male genitalia (Manuel & Nimmo, 1984);  
male & female genitalia (as *Triaenodes kaszabi*) (Manuel, 2010);  
AK (Manuel & Nimmo, 1984; Manuel, 2010);  
NT (Manuel, 2010);  
YT (Manuel & Nimmo, 1984; Nimmo, 1986; Wiggins & Parker, 1997; Manuel, 2010);  
Mongolia (Schmid, 1968).
- Triaenodes lagarto* Rasmussen & Harris, 2010, FL (in Manuel, 2010);  
male & female genitalia (Manuel, 2010);  
FL (Manuel, 2010).
- Triaenodes marginatus* Sibley, 1926, NY;  
*Triaenodes inflexus* Morse, 1971, SC (Manuel, 2010);  
male antenna, wings, male & female genitalia (Schmid, 1980);  
pupal mandible, anal process (Manuel & Nimmo, 1984);  
larva (Glover, 1996);  
male genitalia & photo of adult (Houghton, 2012);  
male & female genitalia (Manuel, 2010);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
AB (Moulton & Stewart, 1996; Manuel, 2010);  
AL (Harris et al, 1983; Harris, 1987; Harris & Lago, 1990; Frazer, Harris, & Ward, 1991;  
Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Hicks & Haynes, 2000a;  
Manuel, 2010; Denson, Rasmussen, & Harris, 2016);  
AR (Ross, 1944; Unzicker, Aggus, & Warren, 1970; Bowles & Mathis, 1989;  
Moulton & Stewart, 1996; Manuel, 2010; Etnier, 2010);  
BC (Moulton & Stewart, 1996; Manuel, 2010);



CT (Nelson & Downs, 1995; Manuel, 2010);  
 DC (Manuel, 2010);  
 DE (Lake, 1984; Glover, 1996; Moulton & Stewart, 1996; Manuel, 2010);  
 GA (Manuel, 2010);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1944; Moulton & Stewart, 1996; Manuel, 2010;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996; Manuel, 2010;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton, Schuster, & DuBois, 1983; Moulton & Stewart, 1996; Manuel, 2010;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Etnier, Bauer, & Zirkle, 2006; Manuel, 2010;  
     Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Neves, 1979; Moulton & Stewart, 1996; Manuel, 2010);  
 MB (Flannagan & Lawler, 1972; Flannagan & Flannagan, 1982; Manuel, 2010);  
 MD (Manuel, 2010);  
 ME (Mingo & Gibbs, 1980; Bilger, 1986; Moulton & Stewart, 1996; Manuel, 2010);  
 MI (Ross, 1944; Ellis, 1962; Moulton & Stewart, 1996; Manuel, 2010;  
     Houghton, Brandin, & Brakel, 2011; Wright, Pytel, & Houghton, 2013; Houghton, 2016;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
     Houghton, 2022;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Etnier, 1973; Lager, Johnson, Williams, & McCullough, 1979;  
     MacLean, 1995; Moulton & Stewart, 1996; Monson, 1997;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2004a;  
     Houghton & Holzenthal, 2010; Manuel, 2010; Zhou, 2011; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Etnier, 2010; Manuel, 2010;  
     Bowles, 2020;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996; Manuel, 2010);  
 NC (Morse, Hamilton, & Hoffman, 1989; Moulton & Stewart, 1996;  
     Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010; Manuel, 2010);  
 ND (Harris, Lago, & Carlson, 1980; Moulton & Stewart, 1996; Manuel, 2010;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Moulton & Stewart, 1996; Manuel, 2010);  
 NH (Manuel, 2010);  
 NJ (Ross, 1944; Moulton & Stewart, 1996; Manuel, 2010; Zhou, 2011);  
 NS (Ross, 1944; Moulton & Stewart, 1996; Manuel, 2010);  
 NY (Sibley, 1926; McCabe, 1986; Glover, 1996; Moulton & Stewart, 1996; Manuel, 2010;  
     Myers, Kondratieff, Mihuc, & Ruitter, 2011);  
 OH (McElravy, Arsuffi, & Foote, 1977; Huryn & Foote, 1983; MacLean & MacLean, 1984;  
     Usis & MacLean, 1986; Garono & MacLean, 1988; Moulton & Stewart, 1996;  
     Manuel, 2010; Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Bowles & Mathis, 1992; Moulton & Stewart, 1996;  
     Zuellig, Kondratieff, Schmidt, Durfee, Ruitter, & Prather, 2006; Manuel, 2010);  
 ON (Manuel, 2010);  
 PA (Masteller & Flint, 1992; Glover, 1996; Manuel, 2010);  
 QC (Nimmo, 1966; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1975;  
     Roy & Harper, 1979; Moulton & Stewart, 1996; Manuel, 2010);  
 SC (Morse, 1971; Morse, Chapin, Herlong, & Harvey, 1980; Glover, 1996;  
     Moulton & Stewart, 1996; Floyd, Morse, & Harris, 1997; Manuel, 2010;  
     Zhou, 2011);

- SD (Ross, 1944; Moulton & Stewart, 1996; Manuel, 2010; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 SK (Manuel, 2010);  
 TN (Etnier, 1973; Etnier & Schuster, 1979; Glover, 1996; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998; Etnier, Bauer, & Zirkle, 2006; Manuel, 2010);  
 TX (Moulton & Stewart, 1997);  
 VA (Parker & Voshell, 1981; Glover, 1996; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2008; Manuel, 2010; Zhou, 2011);  
 WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hilsenhoff, 1995; Moulton & Stewart, 1996; Manuel, 2010; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Glover & Tarter, 1990; Tarter, 1990; Moulton & Stewart, 1996; Manuel, 2010; Tarter & Floyd, 2016).
- Triaenodes melaca* Ross, 1947, IL;  
*Triaenodes* species a Ross, 1944, IL (Ross, 1947);  
 larva, pupa (Glover, 1996);  
 male head & thorax, male & female genitalia (Manuel, 2010);  
 AB (Glover, 1996; Manuel, 2010);  
 AL (Harris & Lago, 1990; Harris, 1990; Harris, O'Neil, & Lago, 1991; Glover, 1996; Moulton & Stewart, 1996; Hicks & Haynes, 2000b; Manuel, 2010);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1944; Ross, 1947; Glover, 1996; Moulton & Stewart, 1996; Manuel, 2010; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Glover, 1996; Moulton & Stewart, 1996; Manuel, 2010; DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton, Schuster, & DuBois, 1983; Moulton & Stewart, 1996; Manuel, 2010; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Haag, Resh, & Neff, 1984; Floyd & Schuster, 1990; Glover, 1996; Moulton & Stewart, 1996; Manuel, 2010; Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Glover, 1996; Manuel, 2010; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Glover, 1996; Moulton & Stewart, 1996; Manuel, 2010; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996; Manuel, 2010);  
 NC (Glover, 1996; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010; Manuel, 2010);  
 OH (Huryn & Foote, 1983; Moulton & Stewart, 1996; Manuel, 2010; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Glover, 1996; Manuel, 2010);  
 TN (Glover, 1996; Etnier, Baxter, Fraley, & Parker, 1998; Manuel, 2010);  
 WI (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Triaenodes milnei* Manuel, 2010, FL;  
 male & female genitalia (Manuel, 2010);  
 AL (Manuel, 2010; Harris & O'Neil, 2015; Denson, Rasmussen, & Harris, 2016);  
 FL (Manuel, 2010; Denson, Rasmussen, & Harris, 2016);  
 GA (Manuel, 2010);  
 SC (Manuel, 2010).
- Triaenodes morsei* Manuel, 2010, SC;  
 male & female genitalia (Manuel, 2010);  
 SC (Manuel, 2010).

*Triaenodes nox* Ross, 1941, ON;  
 larva, pupa (Glover, 1996);  
 male genitalia (Houghton, 2012);  
 wings, male & female genitalia (Manuel, 2010);  
 AB (Manuel, 2010);  
 AL (Harris & Lago, 1990; Harris, 1990; Harris, O'Neil, & Lago, 1991; Glover, 1996;  
 Moulton & Stewart, 1996; Manuel, 2010);  
 BC (Nimmo & Scudder, 1983; Moulton & Stewart, 1996; Manuel, 2010);  
 CT (Downs & Godwin, 1987; Nelson & Downs, 1995; Moulton & Stewart, 1996; Manuel, 2010);  
 FL (Gordon, 1984; Pescador, Rasmussen, & Harris, 1995, 2004; Moulton & Stewart, 1996;  
 Manuel, 2010);  
 GA (Manuel, 2010);  
 IL (Manuel, 2010;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996; Manuel, 2010;  
 DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Neves, 1979; Moulton & Stewart, 1996; Manuel, 2010);  
 MB (Glover, 1996; Manuel, 2010);  
 ME (Blickle & Morse, 1966; Moulton & Stewart, 1996; Manuel, 2010);  
 MI (Manuel, 2010; Houghton, Brandin, & Brakel, 2011; DeWalt & South, 2015;  
 Houghton, 2016;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Monson, 1997;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Manuel, 2010; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Manuel, 2010;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996; Manuel, 2010);  
 NB (Glover, 1996; Manuel, 2010);  
 NH (Morse & Blickle, 1953; Moulton & Stewart, 1996; Manuel, 2010);  
 NJ (Manuel, 2010);  
 NS (Manuel, 2010);  
 NY (Manuel, 2010; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (McElravy, Arsuffi, & Foote, 1977; Hurny & Foote, 1983; Usis & Foote, 1989;  
 Moulton & Stewart, 1996; Manuel, 2010; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Ross, 1941; Flannagan & MacDonald, 1987; Glover, 1996; Moulton & Stewart, 1996;  
 Manuel, 2010);  
 PA (Masteller & Flint, 1979; Masteller & Flint, 1992; Moulton & Stewart, 1996; Manuel, 2010);  
 QC (Roy & Harper, 1979; Moulton & Stewart, 1996; Manuel, 2010);  
 SC (Manuel, 2010);  
 SK (Manuel, 2010);  
 TN (Etnier, Bauer, & Zirkle, 2006; Manuel, 2010);  
 VA (Flint, Hoffman, & Parker, 2009);  
 WI (Hilsenhoff, 1981; Moulton & Stewart, 1996; Manuel, 2010;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).  
*Triaenodes ochraceus* (Betten and Mosely, 1940), *Triaenodella*, GA;  
 larva, pupa (Glover, 1996);  
 wings, male & female genitalia (Manuel, 2010);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris et al, 1983; Harris, 1987; Harris & Lago, 1990; Harris, O'Neil, & Lago, 1991);

Glover, 1996; Moulton & Stewart, 1996; Hicks & Haynes, 2000a;  
 Hicks & Haynes, 2000b; Manuel, 2010; Harris & O'Neil, 2015);  
 AR (Moulton & Stewart, 1996; Manuel, 2010);  
 CT (Nelson & Downs, 1995; Manuel, 2010);  
 DE (Lake, 1984; Moulton & Stewart, 1996; Manuel, 2010);  
 FL (Glover, 1996; Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004; Manuel, 2010;  
 Denson, Rasmussen, & Harris, 2016);  
 GA (Walker, 1852; Moulton & Stewart, 1996; Manuel, 2010);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Manuel, 2010);  
 MD (Manuel, 2010);  
 ME (Huryn & Harris, 2000);  
 MS (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996; Manuel, 2010);  
 NC (Glover, 1996; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010; Manuel, 2010);  
 NJ (Manuel, 2010);  
 OH (Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 SC (Morse et al, 1979; Morse, Chapin, Herlong, & Harvey, 1980; Moulton & Stewart, 1996;  
 Manuel, 2010);  
 TN (Etnier & Schuster, 1979; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998;  
 Manuel, 2010);  
 TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997; Manuel, 2010);  
 VA (Hoffman & Parker, 1997; Flint, Hoffman, & Parker, 2008; Manuel, 2010).  
*Triadenodes perna* Ross, 1938, IL;  
 larva, pupa (Glover, 1996);  
 male & female genitalia (Manuel, 2010);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris, Lago, & O'Neil, 1984; Harris, 1987; Harris & Lago, 1990;  
 Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996;  
 Manuel, 2010; Harris & O'Neil, 2015);  
 AR (Unzicker, Aggus, & Warren, 1970; Bowles & Mathis, 1989;  
 Moulton & Stewart, 1996; Etnier, 2010; Manuel, 2010);  
 DE (Lake, 1984; Moulton & Stewart, 1996; Manuel, 2010);  
 FL (Gordon, 1984; Pescador, Rasmussen, & Harris, 1995, 2004; Moulton & Stewart, 1996;  
 Rasmussen, 2004; Manuel, 2010; Denson, Rasmussen, & Harris, 2016);  
 GA (Manuel, 2010);  
 IL (Ross, 1938; Moulton & Stewart, 1996; Manuel, 2010;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Manuel, 2010;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Glover, 1996; Houp, 1999; Manuel, 2010;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996; Manuel, 2010);  
 MA (Manuel, 2010);  
 MD (Manuel, 2010);  
 MI (Houghton, 2020; Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Ferro & Sites, 2007; Manuel, 2010; Bowles, 2020;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996; Manuel, 2010);  
 NC (Glover, 1996; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010; Manuel, 2010);  
 NH (Morse & Blicke, 1953; Moulton & Stewart, 1996; Manuel, 2010);  
 NJ (Manuel, 2010);

NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Ross, 1944; Huryn & Foote, 1983; Moulton & Stewart, 1996; Manuel, 2010;  
     Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Manuel, 2010);  
 OK (Ross, 1944; Bowles & Mathis, 1992; Moulton & Stewart, 1996;  
     Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006; Manuel, 2010);  
 PA (Masteller & Flint, 1992; Manuel, 2010);  
 QC (Roy & Harper, 1979; Moulton & Stewart, 1996; Manuel, 2010);  
 SC (Morse, Chapin, Herlong & Harvey, 1980; Glover, 1996; Moulton & Stewart, 1996;  
     Floyd, Morse, & Harris, 1997; Manuel, 2010);  
 TN (Edwards, 1966, uncertain record according to Etnier & Schuster, 1979; Glover, 1996;  
     Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998;  
     DeWalt & Heinold, 2005; Etnier, Bauer, & Zirkle, 2006; Manuel, 2010; Zhou, 2011);  
 TX (Edwards, 1973; Moulton & Stewart, 1996;  
     Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997; Bowles, Tiemann, &  
     Easley, 2007; Manuel, 2010);  
 VA (Parker & Voshell, 1981; Glover, 1996; Moulton & Stewart, 1996;  
     Flint, Hoffman, & Parker, 2008; Zhou, 2011; Manuel, 2010; Flint, 2011);  
 WV (Glover & Tarter, 1990; Tarter, 1990; Moulton & Stewart, 1996; Manuel, 2010;  
     Tarter & Floyd, 2016).  
*Trienodes phalacris* Ross, 1938, OH;  
     male genitalia (Manuel, 2010);  
     OH (Ross, 1938; Huryn & Foote, 1983; Manuel, 2010; Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).  
*Trienodes reuteri* McLachlan, 1880, Sweden, Finland;  
     *Trienodes griseus* Banks, 1899, CO (Manuel & Nimmo, 1984);  
     male & female genitalia (Ross, 1944; Schmid, 1980; Tobias & Tobias, 1981);  
     pupal mandible, anal process, male & female genitalia (Manuel & Nimmo, 1984);  
     male genitalia (Houghton, 2012; Küçükbasmaci & Canbulat, 2020);  
     larva (Glover, 1996);  
     photos of larva & case, head (Ruiter, Boyle, & Zhou, 2013);  
     male head & thorax, male & female genitalia, wings (Manuel, 2010);  
 AB (Manuel, 2010);  
 AZ (Glover, 1996; Houghton, 2001; Blinn & Ruiter, 2006; Blinn & Ruiter, 2009a; Manuel, 2010);  
 BC (Ross & Spencer, 1952; Scudder, 1969; Nimmo & Scudder, 1978;  
     Flannagan & MacDonald, 1987; Glover, 1996; Manuel, 2010);  
 CA (Resh & Mendez, 2022);  
 CO (Dodds & Hisaw, 1925; Herrmann, Ruiter, & Unzicker, 1986; Ruiter, 1996; Manuel, 2010;  
     Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 ID (Manuel, 2010);  
 MB (Ross, 1944; Lehmkuhl & Kerst, 1979; Flannagan & Flannagan, 1982;  
     Flannagan & MacDonald, 1987; Manuel, 2010;  
     Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruiter, Boyle, & Zhou, 2013;  
     Chatila-Amos, 2021);  
 MN (Etnier, 1965; Houghton, Holzenthal, Monson, & MacLean, 2001;  
     Houghton & Holzenthal, 2010; Manuel, 2010; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Newell & Potter, 1973; Roemhild, 1982; Manuel, 2010);  
 ND (Harris, Lago, & Carolson, 1980; Manuel, 2010;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NE (Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NM (Manuel, 2010);  
 NT (Manuel, 2010);

- NV (Ruiter, Baumann, & Flint, 2014);  
 OR (Anderson, 1976; Glover, 1996; Manuel, 2010);  
 SD (Manuel, 2010);  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 SK (Ross, 1944; Flannagan & MacDonald, 1987; Manuel, 2010);  
 UT (Baumann & Unzicker, 1981; Manuel, 2010);  
 WA (Zack, Ruiter, Strenge, & Landolt, 2006; Manuel, 2010);  
 WY (Ruiter & Lavigne, 1985; Glover, 1996; Manuel, 2010);  
 YT (Wiggins & Parker, 1997; Manuel, 2010);  
 Sweden, Finland (McLachlan, 1880);  
 Europe (Tobias & Tobias, 1981).
- Triaenodes rossi* Manuel, 2010, SC;  
 male & female genitalia (Manuel, 2010);  
 SC (Manuel, 2010).
- Triaenodes schmidi* (Manuel & Nimmo, 1984), Ylodes, YT;  
 male genitalia (Manuel, 2010);  
 YT (Manuel & Nimmo, 1984; Wiggins & Parker, 1997; Manuel, 2010; Lonsdale, 2020).
- Triaenodes smithi* Ross, 1959, IL;  
 male & female genitalia (Manuel, 2010);  
 AL (Harris, Lago, & O'Neil, 1984; Harris, 1987; Harris & Lago, 1990;  
     Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Manuel, 2010);  
 AR (Manuel, 2010);  
 FL (Manuel, 2010; Denson, Rasmussen, & Harris, 2016);  
 GA (Manuel, 2010);  
 IL (Ross, 1959; Moulton & Stewart, 1996; Manuel, 2010;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Manuel, 2010);  
 MS (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996; Manuel, 2010);  
 SC (Manuel, 2010);  
 TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997; Manuel, 2010);  
 VA (Manuel, 2010).
- Triaenodes taenia* Ross, 1938, TN;  
 larva (Manuel & Braatz, 1984; Glover, 1996);  
 male & female genitalia (Manuel, 2010);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Manuel & Braatz, 1984; Harris & Lago, 1990; Harris, 1990;  
     Harris, O'Neil, & Lago, 1991; Manuel, 2010);  
 FL (Pescador, Rasmussen, & Harris, 2004; Rasmussen, 2004; Manuel, 2010);  
 GA (Manuel & Braatz, 1984; Manuel, 2010);  
 NC (Manuel & Braatz, 1984; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010;  
     Manuel, 2010);  
 SC (Morse et al, 1979; Manuel & Braatz, 1984; Glover, 1996; Manuel, 2010);  
 TN (Ross, 1938; Manuel & Braatz, 1984; Etnier, Baxter, Fraley, & Parker, 1998;  
     DeWalt & Heinold, 2005; DeWalt, Jacobus, & McCafferty, 2007; Manuel, 2010)  
 VA (Flint, Hoffman, & Parker, 2008; Manuel, 2010; Zhou, 2011).
- Triaenodes tardus* Milne, 1934, ON;  
*Triaenodes mephitus* Milne, 1936, DC (Ross, 1944);  
*Triaenodes vorhiesi* Betten, 1934, WI (Ross, 1944);  
 larva, male & female genitalia (Ross, 1944);  
 adult prothorax (Wimmer, 1979);  
 larva (Manuel & Braatz, 1984; Glover, 1996);  
 pupa (Glover, 1996);  
 male genitalia & photo of adult (Houghton, 2012);  
 female habitus, male & female genitalia (Manuel, 2010);  
 New England (Milne, 1934);

AB (Manuel, 2010);  
 AK (Manuel, 2010);  
 AL (Harris et al, 1983; Harris, Lago, & O'Neil, 1984; Harris, 1987; Harris & Lago, 1990; Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Hicks & Haynes, 2000b; Manuel, 2010; Denson, Rasmussen, & Harris, 2016);  
 AR (Ross, 1944; Unzicker, Aggus, & Warren, 1970; Bowles & Mathis, 1989; Moulton & Stewart, 1996; Etnier, 2010; Manuel, 2010; Bowles, 2020; Bowles, Cheri, Usrey, & Williams, 2020);  
 AZ (Milne, 1934; Moulton & Stewart, 1996; Blinn & Ruiter, 2006; Manuel, 2010);  
 BC (Milne, 1934; Ross & Spencer, 1952; Nimmo & Scudder, 1978; Nimmo & Scudder, 1983; Glover, 1996; Moulton & Stewart, 1996; Manuel, 2010);  
 CA (Ruiter, 1999; Resh & Mendez, 2022);  
 CO (Herrmann, Ruiter, & Unzicker, 1986; Moulton & Stewart, 1996; Ruse & Herrmann, 2000; Manuel, 2010; Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 CT (Nelson, 1987; Nelson & Downs, 1995; Moulton & Stewart, 1996; Manuel, 2010);  
 DC (Milne, 1934; Milne, 1936; Moulton & Stewart, 1996; Manuel, 2010);  
 DE (Lake, 1984; Moulton & Stewart, 1996; Manuel, 2010);  
 FL (Glover, 1996; Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004; Manuel, 2010);  
 GA (Hagen, 1861; Moulton & Stewart, 1996; Manuel, 2010);  
 IA (Blinn, Ruiter, & Flint, 2009; Manuel, 2010; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ID (Manuel, 2010);  
 IL (Ross, 1944; Harris, 1971; Moulton & Stewart, 1996; Manuel, 2010; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996; Manuel, 2010; DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton, Schuster, & DuBois, 1983; Moulton & Stewart, 1996; Manuel, 2010; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Haag, Resh, & Neff, 1984; Floyd & Schuster, 1990; Moulton & Stewart, 1996; Manuel, 2010; Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Milne, 1936; Neves, 1979; Moulton & Stewart, 1996; Manuel, 2010);  
 MB (Flannagan & Flannagan, 1982; Glover, 1996; Moulton & Stewart, 1996; Manuel, 2010);  
 MD (Manuel, 2010);  
 ME (Blickle & Morse, 1966; Etnier, 1973; Mingo & Gibbs, 1980; Bilger, 1986; Moulton & Stewart, 1996; Huryn & Harris, 2000; Manuel, 2010);  
 MI (Milne, 1936; Leonard & Leonard, 1949; Ellis, 1962; Davis, Hudson, & Armitage, 1991; Glover, 1996; Moulton & Stewart, 1996; Manuel, 2010; Houghton, Brandin, & Brakel, 2011; Wright, Pytel, & Houghton, 2013; Houghton, 2016; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018; Houghton, 2022; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Ross, 1944; Etnier, 1965; Lager, Johnson, Williams, & McCullough, 1979; MacLean, 1995; Moulton & Stewart, 1996; Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001; Manuel, 2010; Zhou, 2011; Houghton, 2012; Houghton & Lardner, 2020; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Manuel, 2010; Bowles, 2020; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Manuel, 2010);  
 MT (Newell & Potter, 1973; Roemhild, 1982; Moulton & Stewart, 1996; Manuel, 2010);  
 NB (Ross, 1944; Moulton & Stewart, 1996; Manuel, 2010);  
 NC (Milne, 1936; Lenat, 1983; Lenat, 1987; Moulton & Stewart, 1996; Manuel, 2010);

- ND (Harris, Lago, & Carlson, 1980; Moulton & Stewart, 1996; Manuel, 2010; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- NE (Manuel, 2010; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- NH (Milne, 1936; Morse & Blickle, 1953; Moulton & Stewart, 1996; Manuel, 2010);
- NJ (Milne, 1934; Moulton & Stewart, 1996; Manuel, 2010);
- NS (Manuel, 2010);
- NY (Betten, 1934; Milne, 1934; Ross, 1941; McCabe, 1986; Moulton & Stewart, 1996; Manuel, 2010; Myers, Kondratieff, Mihuc, & Ruiter, 2011);
- OH (Ross, 1944; Petersen & Foote, 1980; Huryn & Foote, 1983; MacLean & MacLean, 1984; Usis & MacLean, 1986; Garono & MacLean, 1988; Moulton & Stewart, 1996; Manuel, 2010; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- OK (Ross, 1944; Bowles & Mathis, 1992; Moulton & Stewart, 1996; Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006; Manuel, 2010);
- ON (Milne, 1934; Milne, 1936; Glover, 1996; Moulton & Stewart, 1996; Manuel, 2010; Zhou, 2011);
- OR (Anderson, 1976; Anderson, Cooper, & Denning, 1982; Moulton & Stewart, 1996; Manuel, 2010; Zhou, 2011);
- PA (Ross, 1944; Swegman, Walker, & Sykora, 1981; Masteller & Flint, 1992; Glover, 1996; Moulton & Stewart, 1996; Manuel, 2010);
- QC (Milne, 1936; Nimmo, 1966; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1979; Moulton & Stewart, 1996; Manuel, 2010);
- SC (Manuel, 2010);
- SD (Manuel, 2010; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- SK (Glover, 1996; Manuel, 2010);
- TN (Etnier, 1973; Etnier & Schuster, 1979; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998; Etnier, Bauer, & Zirkle, 2006; Manuel, 2010);
- TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997; Manuel, 2010);
- UT (Knowlton & Harmston, 1939; Baumann & Unzicker, 1981; Moulton & Stewart, 1996; Manuel, 2010);
- VA (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2008; Manuel, 2010; Flint, 2011);
- VT (Wimmer, 1979; Moulton & Stewart, 1996; Manuel, 2010);
- WA (Anderson & Wisseman, 1987; Moulton & Stewart, 1996; Newell, Ruiter, & Strenge, 2001; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Zack, Ruiter, Strenge, & Landolt, 2006; Manuel, 2010; Zhou, 2011; Blinn & Ruiter, 2013);
- WI (Vorhies, 1909, as *T. flavescens* Betten, 1934; Ross, 1944; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Steven & Hilsenhoff, 1984; Hilsenhoff, 1995; Moulton & Stewart, 1996; Manuel, 2010; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- WV (Glover & Tarter, 1990; Tarter, 1990; Moulton & Stewart, 1996; Manuel, 2010; Tarter & Floyd, 2016);
- WY (Ruiter & Lavigne, 1985; Moulton & Stewart, 1996; Manuel, 2010);
- YT (Wiggins & Parker, 1997; Manuel, 2010);
- Mexico (Hagen, 1861).
- Triaenodes tridonta* Ross, 1938, OK;  
male & female genitalia (Manuel, 2010);
- AL (Harris & Lago, 1990; Harris, 1990; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Manuel, 2010);
- FL (Manuel, 2010);
- OK (Ross, 1938; Bowles & Mathis, 1992; Moulton & Stewart, 1996; Manuel, 2010).



Limnephilidae (42 genera, 254 species)—Northern Caddisflies

- Allocosmoecus partitus* Banks, 1943, ID;  
male genitalia (Flint, 1966);  
larva, case (Wiggins, 1977);  
male & female maxillary palps, male & female genitalia (Schmid, 1980);  
BC (Wiggins, 1977; Nimmo & Scudder, 1978; Schmid, 1980);  
CA (Wiggins, 1977; Schmid, 1980; Erman, 1989; Givens, 2014; Resh & Mendez, 2022);  
ID (Banks, 1943; Schmid, 1955; Wiggins, 1977);  
OR (Anderson, 1967; Anderson, 1976; Wiggins, 1977;  
Anderson, Cooper, & Denning, 1982;  
Anderson, Wisseman, & Courtney, 1984);  
WA (Wiggins, 1977; Anderson & Wisseman, 1987;  
Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013).
- Amphicosmoecus canax* (Ross, 1947), *Dicosmoecus*, UT;  
wings, male & female genitalia (Nimmo, 1971);  
larva, case (Wiggins, 1977);  
male & female genitalia (Schmid, 1980);  
CO-ID-WY (Dudley & Anderson, 1982);  
AB (Nimmo, 1965; Nimmo, 1971; Wiggins, 1977);  
AZ (Blinn & Ruiter, 2006; Blinn & Ruiter, 2009a);  
BC (Nimmo, 1965; Nimmo, 1971; Wiggins, 1977;  
Nimmo & Scudder, 1978; Nimmo & Scudder, 1983; Schmid, 1980);  
CA (Nimmo, 1971; Erman, 1989; Resh & Mendez, 2022);  
CO (Herrmann, Ruiter, & Unzicker, 1986; Ruse & Herrmann, 2000;  
Zuellig, Kondratieff, Ruiter, & Thorp, 2006;  
Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
ID (Smith, 1965; Nimmo, 1971; Newell & Minshall, 1977);  
MT (Newell, 1970; Nimmo, 1971; Newell & Potter, 1973;  
Roemhild, 1982);  
NM (Molles, 1982; Molles, 1984);  
OR (Anderson, 1976; Wiggins, 1977; Dudley & Anderson, 1982);  
SK (Schmid, 1980);  
UT (Ross, 1947; Nimmo, 1971; Wiggins, 1977;  
Baumann & Unzicker, 1981)  
WA (Blinn & Ruiter, 2013).
- Anabolia apora* Parker, 1984, VA;  
VA (Parker, 1984; Flint, Hoffman, & Parker, 2008).
- Anabolia bimaculata* (Walker, 1852), *Limnephilus*, ON;  
larva (Flint, 1960);  
male & female genitalia (Nimmo, 1971; Schmid, 1950; Schmid, 1980);  
larva, case (Wiggins, 1977);  
male genitalia (Marshall & Larson, 1982; Houghton, 2012);  
photos of larva & case, head, prothorax, meso-leg, abdomen (Ruiter, Boyle, & Zhou, 2013);  
AB (Nimmo, 1971; Wiggins, 1977; Berté & Pritchard, 1986; Flannagan & MacDonald, 1987);  
AZ (Ruiter, 1996; Houghton, 2001; Blinn & Ruiter, 2006; Blinn & Ruiter, 2009a);  
BC (Ross & Spencer, 1952; Nimmo, 1971; Nimmo & Scudder, 1978, 1983;  
Flannagan & MacDonald, 1987);  
CO (Ulmer, 1905; Dodds & Hisaw, 1925; Nimmo, 1971; Swegman & Ferrington, 1980;  
Canton & Ward, 1981; Herrmann, Ruiter, & Unzicker, 1986; Ruiter, 1996;  
Zuellig, Heinold, Kondratieff, & Ruiter, 2012; Demi, Hughes, & Taylor, 2022;  
Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
CT (Nelson, 1987; Nelson & Downs, 1995);

ID (Nimmo, 1971);

IL (Banks, 1892;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

IN (Waltz & McCafferty, 1983;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MA (Betten 1934; Neves, 1979);

MB (Nimmo, 1971; Flannagan, 1978; Flannagan & Flannagan, 1982;  
Cobb, Flannagan, & Friesen, 1984;  
Flannagan & MacDonald, 1987; Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010;  
Ruiter, Boyle, & Zhou, 2013; Chatila-Amos, 2021);

MD (Betten, 1934);

ME (Ross, 1941; Blicke & Morse, 1966; Nimmo, 1971; Mingo & Gibbs, 1980; Bilger, 1986;  
Huryn & Harris, 2000);

MI (Leonard & Leonard, 1949; Ellis, 1962; Nimmo, 1971; Ruiter, 2010;  
Houghton, Brandin, & Brakel, 2011; Wright, Pytel, & Houghton, 2013; Houghton, 2016;  
Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
Houghton & Lardner, 2020; Houghton, 2022;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MN (Denning, 1937; Etnier, 1965;  
Lager, Johnson, Williams, & McCullough, 1979; MacLean, 1995; Monson, 1997;  
Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2004a;  
Houghton & Holzenthal, 2010; Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MT (Roemhild, 1982);

NB (Flannagan & MacDonald, 1987);

ND (Harris, Lago, & Carlson, 1980;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

NE (Harris, Kondratieff, & Boyle, 2000;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

NF (Marshall & Larson, 1982; Flannagan & MacDonald, 1987;  
Cordero, Sánchez-Ramírez, & Currie, 2017);

NH (Morse & Blicke, 1953);

NM (Nimmo, 1971);

NS (Banks, 1907);

NT (Nimmo, 1971; Nimmo, 1986; Flannagan & MacDonald, 1987;  
Cordero, Sánchez-Ramírez, & Currie, 2017);

NV (Ruiter, Baumann, & Flint, 2014);

NY (Betten, 1926; Betten, 1934; Myers, Kondratieff, Mihuc, & Ruiter, 2011);

OH (Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

ON (Walker, 1852; Ricker, 1932; Nimmo, 1971; Wiggins, Mackay, & Smith, 1980;  
Flannagan & MacDonald, 1987; Harper, 1989;  
Cordero, Sánchez-Ramírez, & Currie, 2017);

PA (Masteller & Flint, 1992);

QC (Robert, 1958; Nimmo, 1971; Roy & Harper, 1975; Roy & Harper, 1979;  
Williams & Williams, 1979; Flannagan & MacDonald, 1987; Harper, 1989;  
Cordero, Sánchez-Ramírez, & Currie, 2017);

SK (Milne, 1943; Nimmo, 1971; Flannagan & MacDonald, 1987);

UT (Baumann & Unzicker, 1981);

VT (Wimmer, 1979);

WI (Betten, 1934; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
Hilsenhoff, 1995;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

WY (Nimmo, 1971; Ruiter & Lavigne, 1985);

YT (Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997).

*Anabolia consocia* (Walker, 1852), *Limnephilus* (*Goniotaulius*), North America;  
*Colpotaulius medialis* Banks, 1905, ON (Milne, 1935);  
*Anabolia oslari* Ling, 1938, CO (Ross, 1944);  
 larva (Flint, 1960);  
 male & female genitalia (Nimmo, 1971);  
 male genitalia (Houghton, 2012);  
 North America (Walker, 1852);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AB (Nimmo, 1971);  
 AK (Banks, 1923);  
 CO (Ling, 1938; Herrmann, Ruiter, & Unzicker, 1986;  
     Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 CT (Britton, 1938; Nelson, 1987; Downs & Godwin, 1987; Nelson & Downs, 1995);  
 IA (Blinn, Ruiter, & Flint, 2009;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Betten, 1934; Banks, 1905;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Nimmo, 1971; Neves, 1979; Whitmore, 2008; Whitmore, 2021);  
 MB (Flannagan & Flannagan, 1982);  
 ME (Johnson, 1927; Procter, 1946; Blicke & Morse, 1966; Nimmo, 1971);  
 MI (Ross, 1944; Ellis, 1962; Nimmo, 1971; Houghton, Brandin, & Brakel, 2011:  
     DeWalt & South, 2015;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton & Lardner, 2020; Houghton, 2022;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Flint, 1960; Etnier, 1965; Nimmo, 1971; Lager, Johnson, Williams, & McCullough, 1979;  
     MacLean, 1995; Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001;  
     Houghton & Holzenthal, 2010; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Banks, 1908; Wray, 1950; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 ND (Harris, Lago, & Carlson, 1980;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NE (Nimmo, 1971;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NH (Banks, 1905; Morse & Blicke, 1953);  
 NT (Nimmo, 1986);  
 NY (Banks, 1905; Lloyd, 1921; Nimmo, 1971; McCabe, 1986;  
     Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (McElravy, Arsuffi, & Foote, 1977; Petersen & Foote, 1980; Huryn & Foote, 1983;  
     MacLean & MacLean, 1984; Usis & MacLean, 1986; Garono & MacLean, 1988;  
     Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Betten, 1934; Banks, 1905; Nimmo, 1971; Williams & Williams, 1987; Harper, 1989);  
 PA (Masteller & Flint, 1979; Swegman, Walker, & Sykora, 1981;  
     Masteller & Flint, 1984; Masteller & Flint, 1992);  
 QC (Nimmo, 1971; Roy & Harper, 1975; Roy & Harper, 1979);  
 SD (Nimmo, 1971;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 SK (Nimmo, 1971);  
 VA (Parker & Voshell, 1981; Flint, Hoffman, & Parker, 2008);  
 VT (Wimmer, 1979);  
 WI (Ross, 1944; Nimmo, 1971; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973;  
     Hilsenhoff, 1975; Steven & Hilsenhoff, 1984; Hilsenhoff, 1995);

- Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Nimmo, 1971; Tarter & Floyd, 2016);  
 WY (Ruiter & Lavigne, 1985).
- Anabolia ozburni* Milne, 1935, Canada;  
 wings, male & female genitalia (Nimmo, 1971);  
 male genitalia (Houghton, 2012);  
 Canada (Milne, 1935);  
 northeastern North America (Schmid, 1955);  
 AB (Nimmo, 1971);  
 ME (Blickle & Morse, 1966; Hury & Harris, 2000);  
 MI (Leonard & Leonard, 1949; Nimmo, 1971);  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Ross & Merkley, 1952; Etnier, 1965; Nimmo, 1971);  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ND (Harris, Lago, & Carlson, 1980);  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NH (Morse & Blickle, 1953);  
 NY (Schmid, 1950; Nimmo, 1971);  
 OH (Armitage et al., 2011);  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Nimmo, 1971);  
 QC (Nimmo, 1966; Nimmo, 1971; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1979);  
 VT (Wimmer, 1979);  
 WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hilsenhoff, 1995;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Anabolia sordida* Hagen, 1861, IL;  
*Anabolia longicerca* Denning, 1941, MN (Banks, 1943);  
 male & female genitalia (Ross, 1944; Schmid, 1950);  
 male genitalia (Marshall & Larson, 1982; Houghton, 2012);  
 CT (Downs & Godwin, 1987; Nelson & Downs, 1995);  
 IL (Hagen, 1861);  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Neves, 1979);  
 ME (Blickle & Morse, 1966);  
 MI (DeWalt & South, 2015);  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Denning, 1941; Ross, 1944; Etnier, 1965);  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton & Holzenthal, 2010;  
     Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ND (Ross, 1944; Harris, Lago & Carlson, 1980);  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Marshall & Larson, 1982);  
 NH (Morse & Blickle, 1953);  
 NY (Flint, 1960; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 QC (Roy & Harper, 1979; Harper, 1989);  
 VT (Wimmer, 1979);  
 WI (Banks, 1943; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hilsenhoff, 1995;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Arctopora pulchella* (Banks, 1908), *Limnephilus (Goniotaulius)*, NF;  
 male & female genitalia (Nimmo, 1971; Schmid, 1980; Houghton, 2012);

- larva, case (Wiggins, 1977);  
 male genitalia (Marshall & Larson, 1982);  
 photos of larva & case, head, ventral apotome (Ruiter, Boyle, & Zhou, 2013);  
 male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
 AB (Nimmo, 1971; Oláh, Anderson, Beshkov, et al, 2019);  
 BC (Nimmo, 1971; Nimmo & Scudder, 1978; Schmid, 1980);  
 MB (Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruiter, Boyle, & Zhou, 2013;  
 Chatila-Amos, 2021);  
 ME (Flint, 1960; Nimmo, 1971; Bilger, 1986; Huryn & Harris, 2000);  
 MI (Flint, 1960; Nimmo, 1971;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1968; MacLean, 1995; Houghton, Holzenthal, Monson, & MacLean, 2001;  
 Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Banks, 1908; Flint, 1960; Nimmo, 1971; Schmid, 1980; Marshall & Larson, 1982);  
 NH (Schmid, 1952; Flint, 1960; Nimmo, 1971);  
 NT (Nimmo, 1986; Cordero, Sánchez-Ramírez, & Currie, 2017);  
 NY (Sibley, 1926);  
 ON (Schmid, 1952; Flint, 1960; Nimmo, 1971; Oláh, Anderson, Beshkov, et al, 2019);  
 QC (Robert, 1958; Roy & Harper, 1975; Roy & Harper, 1979; Harper, 1989;  
 Cordero, Sánchez-Ramírez, & Currie, 2017);  
 WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hilsenhoff, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 YT (Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997;  
 Cordero, Sánchez-Ramírez, & Currie, 2017).
- Arctopora salmon* (Smith, 1969), *Lenarchulus*, ID;  
 ID (Smith, 1969; Wiggins, 1977; Schmid, 1980);  
 MT (Hossack, Newell, & Ruiter, 2011).
- Arctopora trimaculata* (Zetterstedt, 1840), *Phryganea*, Lapland;  
 photo of wings (Schmid, 1980);  
 AK (Schmid, 1952; Schmid, 1980; Kendrick & Huryn, 2014);  
 YT (Wiggins & Parker, 1997);  
 Lapland (Zetterstedt, 1840);  
 northern Palearctic region.
- Asynarchus aldinus* (Ross, 1941), *Limnephilus*, AB;  
 male genitalia (Schmid, 1954);  
 female genitalia (Nimmo, 1965);  
 male genitalia (Nimmo, 1971);  
 NT to ID (Nimmo, 1971);  
 AB (Ross, 1941; Schmid, 1955; Nimmo, 1965; Nimmo, 1971);  
 AK (Kendrick & Huryn, 2014);  
 BC (Nimmo, 1971);  
 ID (Nimmo, 1971);  
 MT (Roemhild, 1982);  
 ND (Harris, Lago, & Carlson, 1980;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NT (Nimmo, 1971);  
 OR (Anderson, 1976);  
 UT (Baumann & Unzicker, 1981);  
 WA (Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005);  
 YT (Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997).
- Asynarchus batchawanus* (Denning, 1949), *Limnephilus*, ON;  
 [synonym of *Asynarchus curtus* (Banks), according to Schmid, 1954,  
 but treated as separate species by Schmid, 1980];

- Limnephilus conerus* Ross, 1950, ON (Ross, 1950, published as a synonym of *Limnephilus batchawanus*);  
 male & female genitalia (Schmid, 1980);  
 AK (Ross & Merkley, 1952);  
 BC (Ross & Spencer, 1952);  
 ON (Denning, 1949);  
 WY (Ross & Merkley, 1952).
- Asynarchus cinnamoneus* Schmid, 1950, BC;  
 male genitalia (Schmid, 1954);  
 AK (Ross & Spencer, 1952);  
 BC (Schmid, 1950; Schmid & Guppy, 1952; Ross & Spencer, 1952; Schmid, 1955);  
 OR (Anderson, 1976).
- Asynarchus circopa* (Ross & Merkley, 1952), *Limnephilus*, UT;  
 larva, case (Wiggins, 1977);  
 CO (Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 MT (Wiggins, 1977);  
 UT (Ross & Merkley, 1952; Schmid, 1955)  
 WY (Ruiter, 1999).
- Asynarchus innuitorum* (Nimmo, 1991), *Limnephilus*, NT  
*Limnephilus innuitorum* Nimmo, 1991, NT [to *Asynarchus* Ruiter (1995)];  
 NT (Nimmo, 1991; Ruiter, 1995).
- Asynarchus iteratus* McLachlan, 1880, northwestern Siberia;  
 male genitalia (Schmid, 1954);  
 AK (Banks, 1918; Banks, 1919; Schmid, 1954; Schmid, 1955; Lonsdale, 2020);  
 MB (Lehmkuhl & Kerst, 1979; Flannagan & Flannagan, 1982;  
 Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010);  
 YT (Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997);  
 northwestern Siberia (McLachlan, 1880).
- Asynarchus lapponicus* (Zetterstedt, 1840), *Phryganea*, Lapland;  
*Asynarchus simplex* Banks, 1900, AK (Ross & Merkley, 1952);  
 wings, male & female genitalia (Schmid, 1954);  
 larval frontoclypeus, trochanters & femora, case  
 (Lepneva, 1966/71);  
 male & female genitalia (Nimmo, 1977);  
 larva, pupa (Solem, 1983);  
 photos of larva & case, head, meso-trochanter (Ruiter, Boyle, & Zhou, 2013);  
 AB (Nimmo, 1971; Nimmo, 1977);  
 AK (Banks, 1900; Banks, 1907; Ulmer, 1932; Kendrick & Huryn, 2014);  
 BC (Nimmo & Scudder, 1978);  
 LB (Hagen, 1861; Schmid, 1954);  
 MB (Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruiter, Boyle, & Zhou, 2013;  
 Chatila-Amos, 2021);  
 ME (Blickle & Morse, 1966);  
 NS (Banks, 1930; Nimmo, 1971; Nimmo, 1977);  
 NT (Nimmo, 1971; Nimmo, 1986; Lehmkuhl & Kerst, 1979;  
 Cordero, Sánchez-Ramírez, & Currie, 2017; Pentinsaari, Blagojev, Hogg, et al, 2020);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 YT (Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997; Kendrick & Huryn, 2014);  
 Lapland (Zetterstedt, 1840);  
 central Europe (Malicky, 1990);  
 northern Palearctic region (Lepneva, 1966/71; Malicky, 1990).
- Asynarchus montanus* (Banks, 1907), *Anabolia*, ME;  
*Anabolia curta* Banks, 1920, MA (Flint, 1966);  
 male & female genitalia (Ross, 1950; Schmid, 1954; Nimmo, 1971);

male genitalia (Houghton, 2012);  
 photos of larva & case, head (Ruiter, Boyle, & Zhou, 2013);  
 northeastern U.S. (Schmid, 1955);  
 AB (Ross, 1950; Nimmo, 1971; Flannagan & MacDonald, 1987);  
 AK (Ross & Merkley, 1952; Nimmo, 1971; Flannagan & MacDonald, 1987;  
 Kendrick & Hury, 2014);  
 BC (Ross, 1950; Ross & Spencer, 1952; Nimmo, 1971; Nimmo & Scudder, 1978;  
 Flannagan & MacDonald, 1987);  
 CO (Schmid, 1955; Nimmo, 1971; Ruiter, 1999;  
 Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
 LB (Ross, 1947; Nimmo, 1971; Flannagan & MacDonald, 1987);  
 MA (Banks, 1920; Nimmo, 1971);  
 MB (Flannagan & Flannagan, 1982; Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010;  
 Ruiter, Boyle, & Zhou, 2013; Chatila-Amos, 2021);  
 ME (Banks, 1907; Schmid, 1955; Blickle & Morse, 1966; Nimmo, 1971; Hury & Harris, 2000);  
 MI (Ross, 1950; Flint, 1960; Nimmo, 1971; Houghton, 2016;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Nimmo, 1971; MacLean, 1995;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NB (Flannagan & MacDonald, 1987);  
 ND (Harris, Lago, & Carlson, 1980;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Marshall & Larson, 1982);  
 NH (Banks, 1907; Ross, 1938; Nimmo, 1971);  
 NS (Flannagan & MacDonald, 1987);  
 NT (Ross, 1950; Schmid, 1955; Nimmo, 1971; Nimmo, 1986; Flannagan & MacDonald, 1987;  
 Cordero, Sánchez-Ramírez, & Currie, 2017);  
 OH (Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Denning, 1949; Ross, 1950; Flint, 1960; Nimmo, 1971; Flannagan & MacDonald, 1987);  
 QC (Ross, 1950; Nimmo, 1971; Roy & Harper, 1975; Roy & Harper, 1979;  
 Williams & Williams, 1979; Flannagan & MacDonald, 1987; Harper, 1989);  
 OR (Ruiter, 1999);  
 SK (Milne, 1943; Nimmo, 1971; Flannagan & MacDonald, 1987);  
 UT (Baumann & Unzicker, 1981);  
 WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hilsenhoff, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WY (Ross, 1950; Ross & Merkley, 1952; Nimmo, 1971; Ruiter & Lavigne, 1985);  
 YT (Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997;  
 Cordero, Sánchez-Ramírez, & Currie, 2017).  
*Asynarchus mutatus* (Hagen, 1861), Hallesus, LB;  
 male & female genitalia (Schmid, 1954);  
 male & female genitalia (Nimmo, 1971);  
 male genitalia (Houghton, 2012);  
 photos of larva & case, head (Ruiter, Boyle, & Zhou, 2013);  
 AB (Nimmo, 1971);  
 BC (Nimmo, 1971; Nimmo & Scudder, 1978);  
 LB (Hagen, 1861; Schmid, 1954; Schmid, 1955);  
 MB (Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruiter, Boyle, & Zhou, 2013;  
 Chatila-Amos, 2021);  
 MN (Etnier, 1965; Nimmo, 1971; MacLean, 1995;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012);

- Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NT (Nimmo, 1971; Nimmo, 1986);  
 ON (Nimmo, 1971);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979);  
 SK (Nimmo, 1971);  
 UT (Ruiter, 1999);  
 WI (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 YT (Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997).
- Asynarchus nigriculus* (Banks, 1908), Anabolia, CO;  
 male genitalia (Ross, 1938; Schmid, 1954);  
 northern North America (Schmid, 1955);  
 male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
 CO (Banks, 1908; Dodds & Hisaw, 1925; Herrmann, Ruiter, & Unzicker, 1986; Ruiter, 1996;  
 Ruse & Herrmann, 2000; Zuellig, Kondratieff, Ruiter, & Thorp, 2006;  
 Zuellig, Heinold, Kondratieff, & Ruiter, 2012; Lund, Wissinger, & Peckarsky, 2016;  
 Oláh, Anderson, Beshkov, et al, 2019; Shepard, Wissinger, Wood, & Greig, 2021;  
 Demi, Hughes, & Taylor, 2022; Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022;  
 Shepard, Wissinger, & Greig, 2022);  
 ME (Schmid, 1954);  
 UT (Baumann & Unzicker, 1981);  
 WY (Ross & Merkley, 1952; Ruiter & Lavigne, 1985).
- Asynarchus pacificus* (Banks, 1900), Stenophylax, WA;  
*Limnephilus nepus* Ross, 1938, WA (new name for *Limnephilus pacificus* (Banks, 1900), preoccupied in *Limnephilus* by Banks, 1899, unnecessary replacement according to Schmid, 1954);  
 wings, male & female genitalia (Schmid, 1954);  
 male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
 ID (Ross & Merkley, 1952);  
 OR (Anderson, 1976; Oláh, Anderson, Beshkov, et al, 2019);  
 WA (Banks, 1900; Schmid, 1954; Schmid, 1955).
- Asynarchus planifrons* (Kolenati, 1848), Desmotaulius, LB;  
 LB (Kolenati, 1848; Schmid, 1955);  
 Greenland (Schmid, 1955).
- Asynarchus rossi* (Leonard & Leonard, 1949), *Limnephilus*, MI;  
 male genitalia & photo of adult (Houghton, 2012);  
 photos of larva & case, head, thorax (Ruiter, Boyle, & Zhou, 2013);  
 MB (Cobb, Flannagan, & Friesen, 1984; Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010;  
 Ruiter, Boyle, & Zhou, 2013; Chatila-Amos, 2021);  
 MI (Leonard & Leonard, 1949; Schmid, 1955;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2020; Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Houghton, Holzenthal, Monson, & MacLean, 2001;  
 Houghton & Holzenthal, 2003; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Cordero, Sánchez-Ramírez, & Currie, 2017);  
 QC (Roy & Harper, 1979; Harper, 1989);  
 SK (Williams & Williams, 1987);  
 WI (Karl & Hilsenhoff, 1979; Hilsenhoff, 1981; Hilsenhoff, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Chilostigma itasca* Wiggins, 1975, MN;  
 male & female genitalia (Schmid, 1980; Houghton, 2012);  
 MN (Wiggins, 1975; Schmid, 1980; Houghton, Holzenthal, Monson, & MacLean, 2001;  
 Houghton & Holzenthal, 2003; Houghton, 2012);



Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).

- Chilostigmodes areolatus* (Walker, 1852), Limnephilus, ON;  
male genitalia (Nimmo, 1971);  
forewing, male genitalia (Schmid, 1980);  
male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
AB (Schmid, 1980; Flannagan & MacDonald, 1987);  
AK (Schmid, 1952; Schmid, 1980; Flannagan & MacDonald, 1987;  
Oláh, Anderson, Beshkov, et al, 2019);  
BC (Flannagan & MacDonald, 1987);  
LB (Ross, 1944; Flannagan & MacDonald, 1987);  
MB (Schmid, 1955; Flannagan & Flannagan, 1982; Flannagan & Flannagan, 1987;  
Oláh, Anderson, Beshkov, et al, 2019);  
MN (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NF (Flannagan & MacDonald, 1987);  
ON (Walker, 1852; Ross, 1944; Flannagan & MacDonald, 1987);  
QC (Schmid, 1980).
- Chyranda centralis* (Banks, 1900), Asynarchus, CO;  
*Chyrandra cordon* Ross, 1949, OR (Schmid, 1951);  
*Asynarchus pallidus* Banks, 1903, CO (Milne, 1935);  
*Chyrandra parvula* Denning, 1948, QC (Schmid, 1951);  
*Parachiona signata* Banks, 1907, ID (Milne, 1935);  
larva, pupa, case (Wiggins, 1963);  
male & female genitalia (Nimmo, 1971);  
photo of larvae in cases (Anderson, 1976);  
larva, case (Wiggins, 1977);  
male head, female palps, male & female genitalia (Schmid, 1980);  
male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
across Canada to AK to CA, UT, CO (Wiggins, 1977);  
AB (Wiggins, 1963; Nimmo, 1971);  
AK (Nimmo, 1971; Wiggins, 1977; Ellis, 1978; Vineyard, 1982; Irons, 1988);  
BC (Ross & Guppy, 1952; Ross & Spencer, 1952; Wiggins, 1963; Winterbourn, 1971;  
Nimmo, 1971; Nimmo & Scudder, 1978; Williams & Williams, 1987; Williams, 1991);  
CA (Denning, 1956; Wiggins, 1977; Erman, 1986; Erman, 1987; Erman, 1989;  
Erman & Erman, 1990; Erman, 1998; Myers & Resh, 1999; Givens, 2014;  
Resh & Mendez, 2022);  
CO (Banks, 1900; Banks, 1903; Dodds & Hisaw, 1925; Nimmo, 1971; Wiggins, 1977;  
Herrmann, Ruiter, & Unzicker, 1986; Ruiter, 1996;  
Zuellig, Kondratieff, Ruiter, & Thorp, 2006;  
Zuellig, Heinold, Kondratieff, & Ruiter, 2012; Oláh, Anderson, Beshkov, et al, 2019);  
ID (Banks, 1907; Nimmo, 1971; Newell & Minshall, 1977);  
LB (Williams & Williams, 1987);  
MT (Newell, 1970; Nimmo, 1971; Newell & Potter, 1973; Roemhild, 1982; Jones & Resh, 1988);  
NM (Molles, 1982; Molles, 1984);  
NV (Ruiter, 1999; Ruiter, Baumann, & Flint, 2014);  
OR (Ross, 1949; Nimmo, 1971; Anderson & Wold, 1972; Anderson, 1976; Wiggins, 1977;  
Wisseman & Anderson, 1984; Anderson & Hansen, 1987);  
QC (Denning, 1948; Nimmo, 1971; Roy & Harper, 1975; Roy & Harper, 1979;  
Williams & Williams, 1979; Schmid, 1980; Harper, 1989);  
SK (Wiggins, 1963; Nimmo, 1971);  
UT (Knowlton & Harmston, 1939; Nimmo, 1971; Wiggins, 1977;  
Baumann & Unzicker, 1981; Oláh, Anderson, Beshkov, et al, 2019);  
WA (Ross, 1941; Nimmo, 1971; Anderson & Wisseman, 1987;  
Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013);

WY (Nimmo, 1971; Swegman & Ferrington, 1980; Ruiter & Lavigne, 1985; Ruiter, 1996);  
YT (Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997).

- Clistoronia* (*Clistoroniella*) *flavicollis* (Banks, 1900), Asynarchus, AK;  
male & female genitalia (Schmid, 1980);  
AK (Banks, 1900; Ross, 1944; Schmid, 1955; Vineyard, 1982);  
BC (Schmid, 1951; Schmid, 1955; Schmid, 1980; Nimmo & Scudder, 1978;  
Nimmo & Scudder, 1983);  
WA (Ruiter, 1999).
- Clistoronia* (*Clistoronia*) *formosa* (Banks, 1900), Halesus, CO;  
male & female genitalia (Ruiter & Blinn, 2009);  
male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
AZ (Essig, 1926; Blinn & Ruiter, 2006; Oláh, Anderson, Beshkov, et al, 2019);  
CO (Banks, 1900);  
NM (Banks, 1907; Oláh, Anderson, Beshkov, et al, 2019);  
UT (Ross & Merkle, 1952; Baumann & Unzicker, 1981).
- Clistoronia* (*Clistoronia*) *maculata* (Banks, 1904), Dicosmoeecus, NM;  
male & female genitalia (Ruiter & Blinn, 2009);  
male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
AZ (Ulmer, 1907; Banks, 1943; Schmid, 1955; Houghton, 2001; Blinn & Ruiter, 2006;  
Blinn & Ruiter, 2009a; Oláh, Anderson, Beshkov, et al, 2019);  
CO (Herrmann, Ruiter, & Unzicker, 1986; Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
NM (Banks, 1904; Schmid, 1955; Vieira, Kondratieff, Ruiter, & Durfee, 2009)  
NV (Ruiter, Baumann, & Flint, 2014).
- Clistoronia* (*Clistoronia*) *magnifica* (Banks, 1899), Halesus, WA;  
*Anabolia caroli* Denning, 1941, BC (Ross & Merkle, 1952);  
male & female genitalia (Nimmo, 1971);  
larva, case (Wiggins, 1977);  
male & female genitalia (Schmid, 1980);  
male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
AB (Schmid, 1955; Nimmo, 1971; Schmid, 1980);  
AK (Vineyard, 1982);  
BC (Denning, 1941; Schmid & Guppy, 1952; Winterbourn, 1971; Nimmo, 1971; Wiggins, 1977;  
Nimmo & Scudder, 1978; Anderson, 1978; Schmid, 1980;  
Oláh, Anderson, Beshkov, et al, 2019);  
CA (Schmid, 1955; Resh & Mendez, 2022);  
MT (Newell & Potter, 1973; Roemhild, 1982);  
NT (Nimmo, 1986);  
OR (Ross & Merkle, 1952; Nimmo, 1971; Anderson, 1976; Anderson, 1978; Anderson, 1979;  
Anderson, 1980; Wiggins, 1977);  
UT (Nimmo, 1971);  
WA (Banks, 1899; Wiggins, 1977; Anderson & Wisseman, 1987;  
Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013);  
YT (Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997).
- Clostoea* *disjuncta* (Banks, 1914), Anisogamus, BC;  
*Clostoea* *sperryae* Banks, 1943, CA (Flint, 1966);  
larva, case (Wiggins, 1977);  
male & female genitalia (Schmid, 1980; Schmid, 1998);  
male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
CA to BC possibly to AK (Wiggins, 1977);  
AK (Flint, 1960; Wiggins, 1977);  
BC (Banks, 1914; Gibson, 1915; Ross, 1938; Ross & Spencer, 1952; Schmid & Guppy, 1952;  
Schmid, 1955; Schmid, 1980; Wiggins, 1977; Nimmo & Scudder, 1978;  
Williams & Williams, 1987);

- CA (Schmid, 1955; Denning, 1956; Wiggins, 1977; Erman, 1987; Erman, 1989;  
Erman & Erman, 1990; Givens, 2014; Resh & Mendez, 2022);  
OR (Flint, 1960; Anderson, 1976; Wiggins, 1977; Oláh, Anderson, Beshkov, et al, 2019);  
WA (Schmid, 1955; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005).
- Clostoea sperryae* Banks, 1943, CA;  
synonymized with *Clostoea disjuncta* (Banks, 1914) by Flint (1966); reinstated by  
Oláh, Anderson, Beshkov, et al, (2019);  
male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
CA (Banks, 1943; Ross, 1944; Denning, 1956; Oláh, Anderson, Beshkov, et al, 2019).
- Crenophylax sperryi* (Banks, 1943), Rhadicoleptus, AZ;  
male genitalia (Flint, 1966; Ruiter, 1995);  
adult male head & thorax, wings, male & female genitalia, larva & case, pupa  
(Ruiter & Nishimoto, 2007);  
male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
AZ (Banks, 1943; Schmid, 1955; Ruiter, 1995; Houghton, 2001; Blinn & Ruiter, 2006;  
Ruiter & Nishimoto, 2007; Blinn & Ruiter, 2009a)  
NM ( Ruiter, 1995; Ruiter & Nishimoto, 2007; Oláh, Anderson, Beshkov, et al, 2019).
- Cryptochia califca* Denning, 1968, CA;  
[*Cryptochia shasta* may be a synonym, Erman & Erman, 1990];  
CA (Denning, 1968; Erman & Erman, 1990; Resh & Mendez, 2022).
- Cryptochia denningi* Wiggins, 1975, CA;  
CA (Wiggins, 1975; Resh & Mendez, 2022).
- Cryptochia excella* Denning, 1964, CA;  
CA (Denning, 1964; Erman & Erman, 1990; Erman, 1998; Resh & Mendez, 2022).
- Cryptochia furcata* Denning, 1953, MT;  
BC (Denning, 1953; Denning, 1975);  
MT (Denning, 1953; Newell, 1970; Newell & Potter, 1973; Denning, 1975; Roemhild, 1982);  
WA (Denning, 1964; Denning, 1975).
- Cryptochia neosa* Denning, 1954, OR;  
OR (Denning, 1954; Anderson, 1976).
- Cryptochia pilosa* (Banks, 1907), Parachiona, WA;  
larva, case (Wiggins, 1977);  
wings, male & female genitalia (Schmid, 1980);  
BC (Schmid, 1951; Ross & Spencer, 1952; Schmid, & Guppy, 1952; Denning, 1975;  
Schmid, 1980);  
ID (Denning, 1964; Denning, 1975);  
OR (Ross & Spencer, 1952; Denning, 1975; Anderson, 1976; Wiggins, 1977;  
Anderson, Cooper, & Denning, 1982; Anderson, Wisseman, & Courtney, 1984;  
Wisseman & Anderson, 1987);  
WA (Banks, 1907; Denning, 1975; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005;  
Blinn & Ruiter, 2013).
- Cryptochia shasta* Denning, 1975, CA;  
["taxonomic status in question," possibly a synonym of *C. califca*, Erman & Erman, 1990]  
CA (Denning, 1975; Erman & Erman, 1990; Resh & Mendez, 2022).
- Desmona bethula* Denning, 1954, CA;  
larva, case (Wiggins, 1977);  
larva, case, wings, male and female genitalia (Wiggins & Wisseman, 1990);  
male genitalia (Nimmo, 2012);  
photo of larval mesothoracic trochanter (Ruiter & Mutch, 2019);  
male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
CA (Denning, 1954; Denning, 1956; Wiggins, 1977; Erman, 1981; Erman, 1987; Erman, 1989);

- Wiggins & Wisseman, 1990; Erman & Erman, 1990; Erman, 1998; Nimmo, 2012; Givens, 2014; Oláh, Anderson, Beshkov, et al, 2019; Resh & Mendez, 2022).
- Desmona denningi* Nimmo, 2012, CA;  
 male & female genitalia (Nimmo, 2012);  
 CA (Nimmo, 2012; Resh & Mendez, 2022).
- Dicosmoecus atripes* (Hagen, 1875), *Platyphylax*, CO;  
*Dicosmoecus jucundus* Banks, 1943, CA (Flint, 1966; Nimmo & Scudder, 1983;  
 distinct species according to Nimmo, 1971);  
*Dicosmoecus nigrescens* Banks, 1943, MT (Flint, 1966);  
 phallic sheaths (Flint, 1966);  
 wings, male & female genitalia (Nimmo, 1971);  
 adult head, wings, male & female genitalia (Schmid, 1980);  
 photos of larval head, mandibles, pronotum, adult; male & female  
 genitalia (Wiggins & Richardson, 1982);  
 AB (Banks, 1943; Nimmo, 1971; Wiggins & Richardson, 1982; Williams, 1991);  
 AK (Wiggins, 1973; Ellis, 1978; Vineyard, 1982; Wiggins & Richardson, 1982);  
 BC (Ross & Spencer, 1952; Schmid & Guppy, 1952; Nimmo, 1971;  
 Nimmo & Scudder, 1978; Wiggins, & Richardson, 1982;  
 Williams & Williams, 1987; Williams, 1991);  
 CA (Ross, 1941; Banks, 1943; Denning, 1956; Flint, 1966; Nimmo, 1971;  
 Wiggins & Richardson, 1982; Leland, Fend, Carter, & Mahood, 1986;  
 Erman, 1989; Givens, 2014; Resh & Mendez, 2022);  
 CO (Hagen, 1875; Hagen, 1877; Banks, 1943; Nimmo, 1971; Flint, 1966; Canton & Ward, 1981;  
 Wiggins & Richardson, 1982; Herrmann, Ruiter, & Unzicker, 1986;  
 DeWalt, Stewart, Moulton, & Kennedy, 1994;  
 Zuellig, Kondratieff, Ruiter, & Thorp, 2006;  
 Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
 Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
 ID (Goodrich, 1935; Banks, 1943; Flint, 1966; Nimmo, 1971; Newell & Minshall, 1977;  
 Wiggins & Richardson, 1982);  
 MT (Banks, 1943; Flint, 1966; Roemhild, 1982; Wiggins & Richardson, 1982);  
 NM (Banks, 1904; Flint, 1966; Nimmo, 1971; Wiggins & Richardson, 1982;  
 Molles, 1984; Vieira, Kondratieff, Ruiter, & Durfee, 2009);  
 NT (Nimmo, 1986);  
 NV (Wiggins & Richardson, 1982; Ruiter, Baumann, & Flint, 2014);  
 OR (Ross, 1941; Banks, 1943; Flint, 1966; Anderson, 1967; Anderson, 1976; Nimmo, 1971;  
 Wiggins, 1973; Wiggins & Richardson, 1982);  
 UT (Knowlton & Harmston, 1939; Flint, 1966; Nimmo, 1971;  
 Baumann & Unzicker, 1981; Wiggins & Richardson, 1982);  
 WA (Wiggins & Richardson, 1982; Anderson & Wisseman, 1987;  
 Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013;  
 Morley, Foley, Duda et al, 2020);  
 WY (Putnam, 1876; Banks, 1943; Flint, 1966; Nimmo, 1971; Wiggins & Richardson, 1982;  
 Ruiter & Lavigne, 1985);  
 YT (Wiggins & Richardson, 1982; Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997).
- Dicosmoecus gilvipes* (Hagen, 1875), *Stenophylax*, CO;  
*Dicosmoecus grandis* Ulmer, 1905, WA (Wiggins & Richardson, 1982);  
 male genitalia (Flint, 1966);  
 male & female genitalia (Nimmo, 1977);  
 larva, case (Wiggins, 1977);  
 photos of larval head, mandibles, pronotum, adult; larva, case,  
 pupal head, adult pleuron, male & female genitalia  
 (Wiggins & Richardson, 1982);  
 CA-OR (Dudley & Anderson, 1982);

- AB (Nimmo, 1977; Wiggins & Richardson, 1982);
- BC (Hagen, 1875; Banks, 1892; Banks, 1943; Ross, 1938;  
Ross & Spencer, 1952; Schmid & Guppy, 1952; Flint, 1966;  
Nimmo, 1977; Nimmo & Scudder, 1978;  
Wiggins & Richardson, 1982);
- CA (Flint, 1966; Resh, 1976; Resh, 1978; Nimmo, 1977; Lamberti & Resh, 1979;  
Hart & Resh, 1980; Wiggins & Richardson, 1982; Resh, Jackson, & Wood, 1987;  
Erman, 1989; Resh, Hannaford, Jackson, Lamberti, & Mendez, 2011;  
Peterson, O'Grady, & Resh, 2017; Resh & Mendez, 2022);
- CO (Hagen, 1875; Dodds & Hisaw, 1925; Nimmo, 1977);
- ID (Banks, 1943; Flint, 1960; Flint, 1966; Nimmo, 1977;  
Wiggins & Richardson, 1982);
- MT (Roemhild, 1982; Wiggins & Richardson, 1982; Peterson, O'Grady, & Resh, 2017;  
Stagliano, 2020);
- NV (Banks, 1943; Flint, 1966; Nimmo, 1977; Ruiters, Baumann, & Flint, 2014);
- OR (Schmid, 1955; Flint, 1966; Anderson, 1967; Anderson, 1976;  
Nimmo, 1977; Wiggins, 1977; Dudley & Anderson, 1982;  
Anderson, Cooper, & Denning, 1982;  
Wiggins & Richardson, 1982; Wisseman & Anderson, 1984;  
Anderson & Hansen, 1987; Li & Gregory, 1989;  
Resh, Hannaford, Jackson, Lamberti, & Mendez, 2011;  
Peterson, O'Grady, & Resh, 2017);
- UT (Putnam, 1876; Nimmo, 1977; Baumann & Unzicker, 1981);
- WA (Ulmer, 1905; Nimmo, 1977; Smith, 1981;  
Wiggins & Richardson, 1982; Anderson & Wisseman, 1987;  
Ruiters, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiters, 2013;  
Peterson, O'Grady, & Resh, 2017; Morley, Foley, Duda et al, 2020);
- WY (Swegman & Ferrington, 1980; Ruiters & Lavigne, 1985).
- Dicosmoecus obscuripennis* Banks, 1938, AK;  
phallus (Flint, 1966, as *Dicosmoecus palatus* [McLachlan, 1872],  
not *D. palatus* according to Wiggins & Richardson, 1982);  
larval pronotum, mesonotum; photos of larval pronotum, adult; male  
& female genitalia (Wiggins & Richardson, 1982);
- AK (Banks, 1938; Flint, 1966; Schmid, 1980;  
Wiggins & Richardson, 1982; Kendrick & Huryn, 2014);
- NT (Wiggins & Richardson, 1982);
- ON (Cordero, Sánchez-Ramírez, & Currie, 2017);
- YT (Wiggins, & Richardson, 1982; Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997;  
Cordero, Sánchez-Ramírez, & Currie, 2017);
- Siberia (Wiggins & Richardson, 1982).
- Dicosmoecus pallicornis* Banks, 1943, CA;  
phallic sheaths (Flint, 1966);  
photos of larval pronotum, adult; male & female genitalia  
(Wiggins & Richardson, 1982);
- CA (Banks, 1943; Schmid, 1955; Wiggins & Richardson, 1982; Resh & Mendez, 2022);
- NV (Wiggins & Richardson, 1982; Ruiters, Baumann, & Flint, 2014).
- Ecclisocosmoecus scylla* (Milne, 1935), *Ecclisomyia*, BC;  
male & female genitalia (Wiggins, 1975);  
larva, case (Wiggins, 1977);  
male forewing, male & female genitalia (Schmid, 1980);
- AK (Ellis, 1978; Vineyard, 1982);
- BC (Milne, 1935; Ross, 1950; Ross & Spencer, 1952; Wiggins, 1975;  
Wiggins, 1977; Nimmo & Scudder, 1978; Nimmo & Scudder, 1983;  
Schmid, 1980; Williams & Williams, 1987);

OR (Ross, 1950; Wiggins, 1975; Anderson, 1976; Wiggins, 1977;  
Schmid, 1980; Anderson, Cooper, & Denning, 1982;  
Wisseman & Anderson, 1984);  
WA (Denning, 1951; Wiggins, 1975; Wiggins, 1977;  
Anderson & Wisseman, 1987; Ruiters, Kondratieff, Lechleitner, & Zuellig, 2005;  
Blinn & Ruiters, 2013).

*Ecclisomyia bilera* Denning, 1951, CA;  
male & female genitalia, larval head, pupa (Givens, 2018);  
CA (Denning, 1951; Denning, 1956; Erman & Erman, 1990; Erman, 1998; Givens, 2014;  
Givens, 2018; Resh & Mendez, 2022);  
NV (Givens, 2018).

*Ecclisomyia conspersa* Banks, 1907, WA;  
larva (Flint, 1960; Givens, 2018);  
male & female genitalia (Nimmo, 1971);  
larva, case (Wiggins, 1977);  
forewing, male & female genitalia (Schmid, 1980; Givens, 2018);  
pupa (Givens, 2018);  
AB (Denning, 1951; Nimmo, 1971; Givens, 2018);  
AK (Denning, 1951; Nimmo, 1971; Ellis, 1978; Vineyard, 1982; Irons, 1988;  
Kendrick & Huryn, 2014; Givens, 2018; Huryn & Benstead, 2019);  
BC (Ross, 1950; Ross & Spencer, 1952; Schmid & Guppy, 1952; Hardy, 1955; Nimmo, 1971;  
Nimmo & Scudder, 1978; Givens, 2018);  
CA (Ross, 1941; Denning, 1956; Nimmo, 1971; Givens, 2014; Givens, 2018;  
Resh & Mendez, 2022);  
CO (Allan, 1975; Herrmann, Ruiters, & Unzicker, 1986;  
Zuellig, Kondratieff, Ruiters, & Thorp, 2006;  
Zuellig, Heinold, Kondratieff, & Ruiters, 2012; Givens, 2018);  
ID (Nimmo, 1971; Givens, 2018);  
MT (Denning, 1951; Newell, 1970; Nimmo, 1971;  
Newell & Potter, 1973; Roemhild, 1982; Givens, 2018);  
NM (Nimmo, 1971);  
NT (Nimmo, 1986);  
NV (Ruiters, Baumann, & Flint, 2014; Givens, 2018);  
OR (Denning, 1951; Nimmo, 1971; Anderson, 1976; Wiggins, 1977;  
Anderson, Wisseman, & Courtney, 1984; Givens, 2018);  
UT (Nimmo, 1971; Baumann & Unzicker, 1981);  
WA (Banks, 1907; Nimmo, 1971; Anderson & Wisseman, 1987;  
Ruiters, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiters, 2013; Givens, 2018);  
WY (Nimmo, 1971; Swegman & Ferrington, 1980;  
Ruiters & Lavigne, 1985; Ruiters, 1996; Givens, 2018);  
YT (Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997; Givens, 2018;  
Cordero, Sánchez-Ramírez, & Currie, 2017);  
Japan (Irons, 1988);  
Siberia (Irons, 1988).

*Ecclisomyia maculosa* Banks, 1907, CO;  
*Ecclisomyia simulata* Banks, 1920, NV (Schmid, 1955), later resurrected by Ruiters, Baumann, &  
Flint (2014);  
female genitalia (Denning, 1948);  
male genitalia (Ross, 1950);  
wings, male & female genitalia (Nimmo, 1971);  
male & female genitalia, pupa (Givens, 2018);  
AB (Ross, 1950; Givens, 2018);  
BC (Ross, 1950; Ross & Spencer, 1952; Nimmo, 1971;  
Nimmo & Scudder, 1978; Givens, 2018);

- CA (Denning, 1951; Denning, 1956; Erman, 1989; Erman & Erman, 1990; Resh & Mendez, 2022);
- CO (Banks, 1907; Dodds & Hisaw, 1925; Ross, 1938; Ross, 1950; Mecom, 1970; Mecom, 1972, Ward, 1981; Herrmann, Ruitter, & Unzicker, 1986; Ward, 1986; Zuellig, Heinold, Kondratieff, & Ruitter, 2012; Givens, 2018);
- ID (Newell & Minshall, 1977; Givens, 2018);
- MT (Ross, 1950; Newell, 1970; Newell & Potter, 1973; Roemhild, 1982; Givens, 2018);
- NV (Banks, 1920);
- OR (Ross, 1941; Ross, 1950; Anderson, 1967; Anderson, 1976; Anderson, Cooper, & Denning, 1982; Anderson, Wisseman, & Courtney, 1984);
- UT (Baumann & Unzicker, 1981);
- WA (Ross, 1950; Anderson & Wisseman, 1987; Ruitter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruitter, 2013);
- WY (Denning, 1948; Denning, 1951; Ross, 1950; Swegman & Ferrington, 1980; Ruitter & Lavigne, 1985; Ruitter, 1996; Givens, 2018).
- Ecclisomyia simulata* Banks, 1920, NV;  
synonymized under *Ecclisomyia maculosa* by Schmid (1955) and later resurrected by Ruitter, Baumann, & Flint (2014);  
male & female genitalia, pupa (Givens, 2018);  
according to Ruitter, Baumann, & Flint (2014), “most records for *Ecclisomyia maculosa* specimens west of the Rocky Mountains are *Ecclisomyia simulata*”;
- CA (Givens, 2014; Givens, 2018; Resh & Mendez, 2022);
- ID (Newell & Minshall, 1977; Givens, 2018);
- NV (Ruitter, Baumann, & Flint, 2014; Givens, 2018)
- OR (Givens, 2018)
- WA (Givens, 2018).
- Eocosmoecus frontalis* (Banks, 1943), Drusinus, BC;  
larva, case, forewing, male and female genitalia (Wiggins & Richardson, 1989);  
BC (Banks, 1943; Ross & Spencer, 1952; Nimmo & Scudder, 1978; Wiggins & Richardson, 1989);
- CA (Resh & Mendez, 2022);
- OR (Ross & Spencer, 1952; Anderson, 1976; Wiggins, & Richardson, 1989);
- WA (Davis, 1950; Flint, 1967; Flint, 1970; Anderson & Wisseman, 1987; Wiggins, & Richardson, 1989; Ruitter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruitter, 2013).
- Eocosmoecus schmidi* (Wiggins, 1975), *Dicosmoecus*, BC;  
larva, case, forewing, male and female genitalia (Wiggins & Richardson, 1989);
- BC (Wiggins, 1975; Nimmo, 1978; Williams & Williams, 1987; Wiggins & Richardson, 1989; Williams, 1991);
- ID (Wiggins & Richardson, 1989);
- MT (Wiggins, 1975; Roemhild, 1982; Wiggins & Richardson, 1989);
- WA (Wiggins & Richardson, 1989).
- Frenesia difficilis* (Walker, 1852), *Limnophilus*, NS;  
*Cryptothrix coagulatus* Provancher, 1877, Canada (Milne, 1935);  
*Chilostigma pallida* Banks, 1899, NY (Milne, 1935);  
larva, case (Wiggins, 1977);  
male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
CT (Flint, 1960; Nelson, 1987; Nelson & Downs, 1995);  
DC (Flint, 1960);  
DE (Lake, 1984);

KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Harris, 1835; Banks, 1892; Neves, 1979);  
 ME (Procter, 1946; Flint, 1960; Blickle & Morse, 1966; Mingo & Gibbs, 1980; Bilger, 1986);  
 NC (Etnier, Baxter, Fraley, & Parker, 1998;  
     Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NF (Williams, 1991);  
 NH (Hagen, 1873; Banks, 1892; Morse & Blickle, 1953);  
 NJ (Smith, 1900; Smith, 1910; Mendez, Spagna, Holzenthal, & Houghton, 2019);  
 NS (Walker, 1852);  
 NY (Banks, 1899; Lloyd, 1915; McCabe, 1986; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Usis & MacLean, 1986; Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Wiggins, 1977; Williams & Williams, 1987; Williams, 1991; Zhou, 2011;  
     Oláh, Anderson, Beshkov, et al, 2019);  
 PA (Ross, 1941; Swegman, Walker, & Sykora, 1981; Masteller & Flint, 1992);  
 QC (Robert, 1958; Roy & Harper, 1975; Roy & Harper, 1979;  
     Oláh, Anderson, Beshkov, et al, 2019);  
 TN (Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Banks, 1904; Parker & Voshell, 1981; Flint, Hoffman, & Parker, 2008);  
 VT (Flint, 1960; Wimmer, 1979);  
 WV (Tarter & Hill, 1980; Stout & Stout, 1989; Tarter, 1990; Tarter & Floyd, 2016).  
 Frenesia missa Milne, 1935, MA;  
     adult antenna (Slifer & Sekhon, 1971);  
     forewing, male & female genitalia (Schmid, 1980);  
     male, female genitalia & photo of adult (Houghton, 2012);  
     male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
 AR (Bowles & Mathis, 1989; Moulton & Stewart, 1996;  
     Bowles, Cheri, Usrey, & Williams, 2020);  
 CT (Nelson, 1987; Nelson & Downs, 1995; Moulton & Stewart, 1996);  
 DC (Milne, 1935; Moulton & Stewart, 1996);  
 DE (Lake, 1984; Moulton & Stewart, 1996);  
 IA (Schmid, 1952; Moulton & Stewart, 1996; Blinn, Ruiter, & Flint, 2009;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1944; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Milne, 1935; Betten, 1934; Neves, 1979);  
 MD (Flint, 1960; Moulton & Stewart, 1996);  
 ME (Procter, 1946; Flint, 1960; Blickle & Morse, 1966; Bilger, 1986; Moulton & Stewart, 1996);  
 MI (Leonard & Leonard, 1949; Ellis, 1962; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Flint, 1960; Etnier, 1965; Moulton & Stewart, 1996;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Zhou, 2011; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Mathis, 1999; Ferro & Sites, 2007;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 ND (Harris, Lago, & Carlson, 1980; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NH (Betten, 1934; Milne, 1935; Moulton & Stewart, 1996);  
 NY (Betten, 1934; Milne, 1935; McCabe, 1986; Moulton & Stewart, 1996;  
     Myers, Kondratieff, Mihuc, & Ruiter, 2011);



OH (Huryn & Foote, 1983; Usis & MacLean, 1986; Moulton & Stewart, 1996; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Flint, 1960; Williams & Williams, 1987; Williams, 1991; Moulton & Stewart, 1996);  
 PA (Milne, 1935; Flint, 1960; Swegman, Walker, & Sykora, 1981; Masteller & Flint, 1984; Glazier & Gooch, 1987; Masteller & Flint, 1992; Moulton & Stewart, 1996);  
 PE (Dobrin & Giberson, 2003);  
 QC (Roy & Harper, 1979; Moulton & Stewart, 1996; Oláh, Anderson, Beshkov, et al, 2019);  
 VA (Milne, 1935; Parker & Voshell, 1981; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2008);  
 VT (Wimmer, 1979; Moulton & Stewart, 1996);  
 WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Steven & Hilsenhoff, 1984; Hilsenhoff, 1995; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).

Glyphopsyche irrorata (Fabricius, 1781), Phryganea, type locality not mentioned;  
 Glyphopsyche bryanti Banks, 1904, BC (Milne, 1935);  
 Linnephilus intercicus Walker, 1852, Canada (Milne, 1935);  
 larva (Flint, 1960);  
 wings, male & female genitalia (Nimmo, 1971);  
 larva, case (Wiggins, 1977);  
 photo of adult; male & female genitalia (Schmid, 1980);  
 forewing, male genitalia (Marshall & Larson, 1982);  
 male & female genitalia (Houghton, 2012);  
 male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
 Arctic America (Ross, 1944);  
 northern transcontinental, western mountains, YT to CA (Wiggins, 1977);  
 AB (Flannagan & MacDonald, 1987);  
 AK (Schmid, 1980; Vineyard, 1982; Flannagan & MacDonald, 1987);  
 BC (Banks, 1904; Essig, 1926; Ross, 1938; Schmid & Guppy, 1952; Ross & Spencer, 1952; Winterbourn, 1971; Nimmo, 1971; Nimmo & Scudder, 1978; Flannagan & MacDonald, 1987);  
 CA (Denning, 1956; Wiggins, 1977; Schmid, 1980; Resh & Mendez, 2022);  
 CO (Herrmann, Ruiter, & Unzicker, 1986; Ruiter, 1996; Zuellig, Heinold, Kondratieff, & Ruiter, 2012; Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
 MA (Harris, 1835; Neves, 1979);  
 MB (Flannagan & Flannagan, 1982; Flannagan & MacDonald, 1987);  
 ME (Hagen, 1873; Blickle & Morse, 1966; Bilger, 1986; Huryn & Harris, 2000);  
 MI (Leonard & Leonard, 1949; Ellis, 1962; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Lager, Johnson, Williams, & McCullough, 1979; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Newell & Potter, 1973; Roemhild, 1982);  
 NB (Flannagan & MacDonald, 1987);  
 NF (Schmid, 1980; Marshall & Larson, 1982; Flannagan & MacDonald, 1987);  
 NH (Hagen, 1873; Morse & Blickle, 1953);  
 NS (Flannagan & MacDonald, 1987);  
 NY (Betten, 1926; Betten, 1934; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 ON (Ulmer, 1906; Ross, 1944; Flannagan & MacDonald, 1987; Harper, 1989; Blades & Marshall, 1994);  
 OR (Anderson, 1976);  
 PA (Swegman, Walker, & Sykora, 1981; Masteller & Flint, 1992);

- PE (Majka, 2010);  
 QC (Robert, 1958; Corbet, Schmid, Augustin, 1966; Roy & Harper, 1979;  
 Flannagan & MacDonald, 1987; Harper, 1989; Oláh, Anderson, Beshkov, et al, 2019);  
 VT (Bilger, 1986);  
 WA (Ruiter, 1999; Blinn & Ruiter, 2013);  
 WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hilsenhoff, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WY (Flint, 1960; Ruiter & Lavigne, 1985);  
 YT (Flint, 1960; Wiggins, 1977; Nimmo & Wickstrom 1984; Flannagan & MacDonald, 1987;  
 Wiggins & Parker, 1997).
- Glyphopsyche missouri Ross, 1944, MO;  
 MO (Ross, 1944; Flint, 1960; Wiggins, 1977;  
 Mathis & Bowles, 1992; Moulton & Stewart, 1996;  
 Mabee, Schuhmann, Poulton, Girondo, Swee, Buckley, Bowles, Bowles, & Rhodes,  
 2019; Rhodes, Poulton, Mabee, & Bowles, 2020;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Glyphopsyche sequatchie Etnier and Hix, 1999, TN;  
 male & female genitalia & larva (Etnier and Hix, 1999);  
 TN (Etnier and Hix, 1999).
- Grammotaulius betteni Hill-Griffin, 1912, OR;  
 photo of wings (Schmid, 1980);  
 BC (Milne, 1935; Denning, 1941; Schmid & Guppy, 1952; Ross & Spencer, 1952; Schmid, 1955;  
 Schmid, 1980);  
 OR (Hill-Griffin, 1912; Schmid, 1955; Anderson, 1976; Anderson & Hansen, 1987);  
 WA (Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005);  
 China (Schmid, 1950; Schmid, 1955, possibly).
- Grammotaulius interrogationis (Zetterstedt, 1840), Phryganea, Greenland;  
 Grammotaulius praecox Hagen, 1873, British America (Kolbe 1912;  
 Milne, 1935);  
 male & female genitalia (Nimmo, 1971; Schmid, 1980; Houghton, 2012);  
 photos of larva & case, head, ventral apotome (Ruiter, Boyle, & Zhou, 2013);  
 British America (Hagen, 1873);  
 Greenland to LB to BC to YT (Schmid, 1964);  
 northern transcontinental to MN (Wiggins, 1977);  
 AB (Nimmo, 1971);  
 AK (Schmid, 1980);  
 BC (Ross & Spencer, 1952; Schmid, 1964; Nimmo, 1971; Nimmo & Scudder, 1978);  
 LB (Ross, 1941; Schmid, 1964; Nimmo, 1971);  
 MB (Denning, 1941; Nimmo, 1971; Flannagan & Flannagan, 1982;  
 Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruiter, Boyle, & Zhou, 2013;  
 Chatila-Amos, 2021);  
 MN (Denning, 1941; Etnier, 1965; Nimmo, 1971;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NS (Banks, 1907; Nimmo, 1971; Schmid, 1980);  
 NT (Ulmer, 1907; Nimmo, 1971; Nimmo, 1986; Cordero, Sánchez-Ramírez, & Currie, 2017);  
 ON (Nimmo, 1971);  
 QC (Nimmo, 1971; Roy & Harper, 1979);  
 YT (Schmid, 1964; Nimmo, 1971; Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997;  
 Cordero, Sánchez-Ramírez, & Currie, 2017);  
 Greenland (Zetterstedt, 1840; Nimmo, 1971; Wiggins, 1977; Schmid, 1980;  
 Wiggins & Parker, 1997);  
 Lapland (Hagen, 1861).
- Grammotaulius lorettiae Denning, 1941, CO;

- male & female genitalia (Schmid, 1950);  
 larva (Flint, 1960);  
 CO (Denning, 1941; Schmid, 1955; Flint, 1960; Herrmann, Ruiter, & Unzicker, 1986;  
 Ruiter, 1996; Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
 Wissinger, Perchik, & Klemmer, 2018;  
 Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
 UT (Baumann & Unzicker, 1981);  
 WY (Ruiter & Lavigne, 1985; Ruiter, 1996).
- Grammotaulius signatipennis* McLachlan, 1876, Russia, Kola, Lapland;  
*Grammotaulius alascensis* Schmid, 1964, AK (Grigorenko, 2002);  
*Grammotaulius subborealis* Schmid, 1964, AK, as synonym of *Grammotaulius alascensis* Schmid,  
 1964 (Wiggins & Parker, 1997);  
 male and female genitalia (Schmid, 1964) [as *Grammotaulius alascensis* Schmid, 1964];  
 larva, case (Lepneva, 1966/71);  
 AK (Flint, 1964; Schmid, 1964; Kendrick & Huryn, 2014; Lonsdale, 2020);  
 YT (Schmid, 1964; Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997);  
 Russia, Kola, Lapland (McLachlan, 1876);  
 Palearctic Region (Lepneva, 1966/71).
- Grensia praeterita* (Walker, 1852), *Limnophilus*, arctic America;  
 larva, case (Wiggins, 1977);  
 photo of adult; forewing, male & female genitalia (Schmid, 1980);  
 male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
 arctic America (Walker, 1852);  
 AK (Banks, 1919; van Duzee, 1921; Weber, 1949; Wiggins, 1977;  
 Vineyard, 1982; Kendrick & Huryn, 2014);  
 NT (Ulmer, 1907; Henricksen, 1937; Wiggins, 1977, including  
 Victoria Island; Lehmkuhl & Kerst, 1979; Nimmo, 1986;  
 Oláh, Anderson, Beshkov, et al, 2019; Pentinsaari, Blagoev, Hogg, et al, 2020;  
 Cordero, Sánchez-Ramírez, & Currie, 2017);  
 YT (Wiggins & Parker, 1997; Cordero, Sánchez-Ramírez, & Currie, 2017);  
 Greenland (Schmid, 1952);  
 northern Asia (McLachlan, 1880; Martynov, 1910; Ulmer, 1932;  
 Martynov, 1936);  
 Siberia (McLachlan, 1880; Martynov, 1914);  
 Palaearctic Region (Wiggins, 1977);  
 Greenland (Wiggins & Parker, 1997).
- Halesochila taylori* (Banks, 1904), *Halesus*, BC;  
 larva, case, (Wiggins, 1977);  
 photo of adult; male & female genitalia (Schmid, 1980);  
 male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
 AK (Vineyard, 1982);  
 BC (Banks, 1904; Ross, 1938; Schmid & Guppy, 1952; Ross & Spencer, 1952; Schmid, 1955;  
 Winterbourn, 1971; Wiggins, 1977; Nimmo & Scudder, 1978; Schmid, 1980;  
 Oláh, Anderson, Beshkov, et al, 2019);  
 ID (Smith, 1965; Schmid, 1965);  
 OR (Anderson, 1976; Wiggins, 1977; Dudley & Anderson, 1982;  
 Anderson, Cooper, & Denning, 1982; Anderson & Hansen, 1987;  
 Oláh, Anderson, Beshkov, et al, 2019);  
 WA (Schmid, 1965; Wiggins, 1977; Sherk, 1986;  
 Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013;  
 Claeson, Crisafulli, & Gerth, 2018).

*Hesperophylax alaskensis* (Banks, 1908), *Platyphylax designata* var *alaskensis*, AK;

- male & female genitalia (Parker & Wiggins, 1985);  
 AK (Banks, 1908; Parker & Wiggins, 1985);  
 BC (Parker & Wiggins, 1985);  
 CA (Parker & Wiggins, 1985; Resh & Mendez, 2022);  
 ME (Blickle & Morse, 1966, as *Psychoglypha alaskensis* [Banks]  
     doubtful record far out of rest of range - see Parker & Wiggins, 1985);  
 OR (Parker & Wiggins, 1985; Anderson & Hansen, 1987);  
 UT (Baumann & Unzicker, 1981, probably not this species according  
     to Parker & Wiggins' map, 1985, Fig. 32; Oláh, Anderson, Beshkov, et al, 2019);  
 WA (Parker & Wiggins, 1985; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005;  
     Blinn & Ruiter, 2013).
- Hesperophylax consimilis* (Banks, 1900), *Limnophilus*, CO;  
 male genitalia (Ross, 1944);  
 male & female genitalia (Nimmo, 1971);  
 male & female genitalia (Parker & Wiggins, 1985);  
 western U.S.(Schmid, 1955);  
 AB (Nimmo, 1971);  
 CA (Resh & Mendez, 2022);  
 CO (Banks, 1900; Gray & Ward, 1977; Canton & Ward, 1981; Parker & Wiggins, 1985;  
     Herrmann, Ruiter, & Unzicker, 1986; Ruiter, 1996;  
     Zuellig, Kondratieff, Ruiter, & Thorp, 2006;  
     Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
     Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
 ID (Newell & Minshall, 1977; Parker & Wiggins, 1985);  
 MT (Roemhild, 1982; Parker & Wiggins, 1985);  
 NV (Ross, 1947; Nimmo, 1971; Ruiter, Baumann, & Flint, 2014);  
 TX (Moulton & Stewart, 1997);  
 UT (Knowlton & Harmston, 1939; Baumann & Unzicker, 1981; Parker & Wiggins, 1985);  
 WY (Ruiter & Lavigne, 1985).
- Hesperophylax designatus designatus* (Walker, 1852), *Limnephilus*, NT;  
*Hesperophylax incisus* Banks, 1943, ID (Parker & Wiggins, 1985);  
 forewing, male genitalia (Betten & Mosely, 1940);  
 habitus, male & female genitalia (Ross, 1944);  
 larva (Flint, 1960);  
 male & female genitalia (Nimmo, 1971; Schmid, 1980);  
 larva, case (Wiggins, 1977);  
 larva, case, wings, male & female genitalia (Parker & Wiggins, 1985);  
 male, female genitalia, & photo of adult (Houghton, 2012);  
 photo of larval head (Ruiter, Boyle, & Zhou, 2013);  
 male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
 western U.S. (Schmid, 1955);  
 AB (Nimmo, 1971; Parker & Wiggins, 1985; Oláh, Anderson, Beshkov, et al, 2019);  
 AK (Essig, 1926; Blinn & Ruiter, 2006);  
 AZ (Parker & Wiggins, 1985);  
 BC (Essig, 1926; Clemens et al, 1939; Banks, 1943; Schmid & Guppy, 1952;  
     Ross & Spencer, 1952; Nimmo, 1971;  
     Nimmo & Scudder, 1978; Parker & Wiggins, 1985;  
     Oláh, Anderson, Beshkov, et al, 2019);  
 CA (Essig, 1926; Banks, 1943; Nimmo, 1971; Parker & Wiggins, 1985;  
     Erman, 1987; Erman, 1989; Erman & Erman, 1990; Myers & Resh, 1999;  
     Givens, 2014; Oláh, Anderson, Beshkov, et al, 2019; Resh & Mendez, 2022);  
 CO (Banks, 1892; Dodds, & Hisaw, 1925; Banks, 1904; Betten 1934; Ross, 1947; Nimmo, 1971;  
     Ward & Dufford, 1979; Parker & Wiggins, 1985; Herrmann, Ruiter, & Unzicker, 1986;  
     Zuellig, Kondratieff, Ruiter, & Thorp, 2006;  
     Zuellig, Heinold, Kondratieff, & Ruiter, 2012; Oláh, Anderson, Beshkov, et al, 2019);

Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
 IA (Parker & Wiggins, 1985; Blinn, Ruiter, & Flint, 2009;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ID (Banks, 1943; Nimmo, 1971; Newell & Minshall, 1977; Parker & Wiggins, 1985);  
 IL (Ross, 1944; Vinikour & Anderson, 1981; Parker & Wiggins, 1985;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LB (Williams & Williams, 1987);  
 MB (Cobb, Flannagan, & Friesen, 1984; Parker & Wiggins, 1985; Williams & Williams, 1987;  
 Ruiter, Boyle, & Zhou, 2013);  
 ME (Flint, 1960; Blickle & Morse, 1966; Parker & Wiggins, 1985; Bilger, 1986);  
 MI (Ross, 1944; Ellis, 1962; Parker & Wiggins, 1985; Houghton, Brandin, & Brakel, 2011;  
 DeWalt & South, 2015;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Elkins, 1936; Etnier, 1965; Parker & Wiggins, 1985; Monson, 1997;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Roemhild, 1982; Parker & Wiggins, 1985);  
 ND (Harris, Lago, & Carlson, 1980; Parker & Wiggins, 1985;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NE (Parker & Wiggins, 1985;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Marshall & Larson, 1982; Parker & Wiggins, 1985);  
 NH (Ross, 1944; Parker & Wiggins, 1985);  
 NM (Banks, 1904; Parker & Wiggins, 1985);  
 NS (Walker, 1852);  
 NT (Walker, 1852; Nimmo, 1971; Nimmo, 1986; Lehmkuhl & Kerst, 1979;  
 Parker & Wiggins, 1985; Pentinsaari, Blagoev, Hogg, et al, 2020;  
 Cordero, Sánchez-Ramírez, & Currie, 2017);  
 NV (Banks, 1943; Nimmo, 1971; Parker & Wiggins, 1985; Ruiter, Baumann, & Flint, 2014);  
 NY (Lloyd, 1921; Betten 1934; Parker & Wiggins, 1985);  
 ON (Walker, 1852; Ricker, 1932; Wiggins, 1977; Parker & Wiggins, 1985;  
 Williams & Williams, 1987; Harper, 1989; Williams, 1991);  
 OR (Betten, 1934; Ross, 1947; Nimmo, 1971; Parker & Wiggins, 1985;  
 Anderson & Anderson, 1995);  
 PA (Swegman, Walker, & Sykora, 1981; Parker & Wiggins, 1985; Masteller & Flint, 1992);  
 PE (Dobrin & Giberson, 2003);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979; Williams & Williams, 1979;  
 Parker & Wiggins, 1985; Williams & Williams, 1987; Harper, 1989);  
 SD (Parker & Wiggins, 1985; Ruiter, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 SK (Milne, 1943; Banks, 1943; Nimmo, 1971; Parker & Wiggins, 1985);  
 UT (Vorhies, 1913; Davis, 1934; Banks, 1943; Nimmo, 1971; Baumann & Unzicker, 1981;  
 Parker & Wiggins, 1985);  
 WA (Essig, 1926; Smith, 1981; Parker & Wiggins, 1985;  
 Newell, Ruiter, & Strenge, 2001; Blinn & Ruiter, 2013);  
 WI (Vorhies, 1905; Marshall, 1907; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973;  
 Hilsenhoff, 1975; Shapas & Hilsenhoff, 1976; Karl & Hilsenhoff, 1979;  
 Steven & Hilsenhoff, 1984; Parker & Wiggins, 1985; Hilsenhoff, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WY (Putnam, 1876; Parker & Wiggins, 1985; Ruiter & Lavigne, 1985; Ruiter, 1996);  
 YT (Parker & Wiggins, 1985; Wiggins & Parker, 1997).  
*Hesperophylax designatus* isolatus Banks, 1943, *Hesperophylax*  
*designatus* var *isolatus*, ME;

- ME (Banks, 1943).
- Hesperophylax magnus* Banks, 1918, AZ;  
 male & female genitalia (Ross, 1944);  
 male & female genitalia (Parker & Wiggins, 1985);  
 Canada (Banks, 1918);  
 AZ (Banks, 1918; Parker & Wiggins, 1985; Moulton, Stewart, & Young, 1994; Ruiter, 1996;  
 Houghton, 2001; Blinn & Ruiter, 2006; Blinn & Ruiter, 2009a; Blinn & Ruiter, 2009b;  
 Oláh, Anderson, Beshkov, et al, 2019);  
 CA (Banks, 1918, not this species, Banks, 1943; Denning, 1956; Parker & Wiggins, 1985;  
 Resh & Mendez, 2022);  
 CO (Banks, 1918; Herrmann, Ruiter, & Unzicker, 1986;  
 Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
 Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
 ID (Newell & Minshall, 1977);  
 NM (Banks, 1918; Banks, 1943; Molles, 1982; Molles, 1984;  
 Parker & Wiggins, 1985; Vieira, Kondratieff, Ruiter, & Durfee, 2009);  
 NV (Parker & Wiggins, 1985; Ruiter, Baumann, & Flint, 2014);  
 UT (Banks, 1918, not this species, Banks, 1943; Baumann & Unzicker, 1981;  
 Parker & Wiggins, 1985; Oláh, Anderson, Beshkov, et al, 2019);  
 WY (Ruiter & Lavigne, 1985);  
 Mexico (Schmid, 1955; Parker & Wiggins, 1985).
- Hesperophylax minutus* Ling, 1938, OR;  
 male & female genitalia (Parker & Wiggins, 1985);  
 CA (Ross, 1944; Resh & Mendez, 2022);  
 OR (Ling, 1938; Denning, 1956; Parker & Wiggins, 1985).
- Hesperophylax occidentalis* (Banks, 1908), *Platyphylax designata* var *occidentalis*, CO;  
 male & female genitalia (Ross, 1944);  
 male & female genitalia (Nimmo, 1971);  
 pupal anal rods, male & female genitalia (Parker & Wiggins, 1985);  
 Canada (Neave, 1929);  
 western U.S. (Schmid, 1955);  
 AB (Nimmo, 1971; Parker & Wiggins, 1985);  
 AZ (Parker & Wiggins, 1985; Ruiter, 1996; Houghton, 2001; Blinn & Ruiter, 2006;  
 Blinn & Ruiter, 2009a; Blinn, Ruiter, & Haden, 2012;  
 Oláh, Anderson, Beshkov, et al, 2019);  
 BC (Ross, 1947; Schmid & Guppy, 1952; Ross & Spencer, 1952; Nimmo, 1971);  
 CA (Banks, 1908; Denning, 1956; Nimmo, 1971; Resh & Mendez, 2022);  
 CO (Banks, 1908; Dodds & Hisaw, 1925; Banks, 1908; Canton & Ward, 1981;  
 Martison & Ward, 1982; Parker & Wiggins, 1985; Herrmann, Ruiter, & Unzicker, 1986;  
 DeWalt, Stewart, Moulton, & Kennedy, 1994; Ruiter, 1996; Ruse & Herrmann, 2000;  
 Zuellig, Kondratieff, Ruiter, & Thorp, 2006;  
 Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
 Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
 ID (Parker & Wiggins, 1985);  
 MT (Roemhild, 1982);  
 NE (Parker & Wiggins, 1985;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NM (Banks, 1908; Nimmo, 1971; Parker & Wiggins, 1985;  
 Vieira, Kondratieff, Ruiter, & Durfee, 2009);  
 NV (Parker & Wiggins, 1985; Ruiter, Baumann, & Flint, 2014);  
 OR (Parker & Wiggins, 1985);  
 SD (Parker & Wiggins, 1985; Ruiter, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 SK (Parker & Wiggins, 1985);  
 TX (Parker & Wiggins, 1985: unconfirmed or dubious according to Moulton & Stewart, 1997);

UT (Knowlton & Harmston, 1939; Nimmo, 1971; Baumann & Unzicker, 1981;  
Parker & Wiggins, 1985; Oláh, Anderson, Beshkov, et al, 2019);  
WA (Banks, 1908);  
WY (Parker & Wiggins, 1985; Ruiter & Lavigne, 1985; Ruiter, 1996).

- Homophylax acutus* Denning, 1964, ID;  
wings, male & female genitalia (Nimmo, 1971);  
AB (Nimmo, 1965; Nimmo, 1971);  
BC (Nimmo & Scudder, 1983);  
ID (Denning, 1964);  
MT (Roemhild, 1982).
- Homophylax adriana* Denning, 1964, NM;  
NM (Denning, 1964).
- Homophylax andax* Ross, 1941, OR;  
male & female genitalia (Denning, 1964);  
larva, case (Wiggins, 1977);  
male & female hindwings, male sternum V (Schmid, 1980);  
male paraprocts (Oláh, Anderson, Beshkov, et al, 2019);  
AK (Denning, 1964; Ellis, 1978; Vineyard, 1982);  
BC (Ross, 1941; Ross & Spencer, 1952; Schmid, 1955; Denning, 1964;  
Nimmo & Scudder, 1978; Oláh, Anderson, Beshkov, et al, 2019);  
OR (Ross, 1941; Denning, 1964; Anderson, 1976; Oláh, Anderson, Beshkov, et al, 2019);  
WA (Denning, 1964; Wiggins, 1977; Anderson & Wisseman, 1987;  
Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013;  
Oláh, Anderson, Beshkov, et al, 2019).
- Homophylax auricularis* Smith, 1971, ID;  
ID (Smith, 1971).
- Homophylax baldur* Nimmo, 1971, AB;  
male wings, male genitalia (Schmid, 1980);  
AB (Nimmo, 1971; Lonsdale, 2020);  
UT (Nimmo, 1971).
- Homophylax beges* Oláh, 2019, BC;  
male genitalia (Oláh, Anderson, Beshkov, et al, 2019);  
BC (Oláh, Anderson, Beshkov, et al, 2019; Lonsdale, 2020).
- Homophylax coros* Oláh, 2019, BC;  
male genitalia (Oláh, Anderson, Beshkov, et al, 2019);  
BC (Oláh, Anderson, Beshkov, et al, 2019; Lonsdale, 2020).
- Homophylax crotchi* Banks, 1920, BC;  
male & female genitalia (Denning, 1964);  
wings, male & female genitalia (Nimmo, 1971);  
female genitalia (Schmid, 1980);  
AB (Nimmo, 1971);  
BC (Banks, 1920; Criddle & Curran, 1923; Ross, 1938; Ross & Spencer, 1952; Denning, 1964;  
Nimmo, 1971; Nimmo & Scudder, 1978);  
WA (Denning, 1964; Blinn & Ruiter, 2013).
- Homophylax flavipennis* Banks, 1900, CO;  
male genitalia (Schmid, 1955; Denning, 1964);  
female sternum V (Schmid, 1980);  
Canada (Neave, 1929);  
BC (Anonymous, 1907, according to Nimmo & Scudder, 1978);  
CO (Banks, 1900; Ross, 1944; Schmid, 1955; Denning, 1964;  
Herrmann, Ruiter, & Unzicker, 1986; Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
Oláh, Anderson, Beshkov, et al, 2019;  
Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
MT (Denning, 1964; Newell, 1970; Newell & Potter, 1973; Roemhild, 1982);

UT (Baumann & Unzicker, 1981);  
 WY (Denning, 1964; Ruiters & Lavigne, 1985).  
*Homophylax insulas* Denning, 1964, CA;  
 CA (Denning, 1964; Resh & Mendez, 2022).  
*Homophylax nevadensis* Banks, 1903, NV;  
 male & female genitalia (Denning, 1964);  
 CA (Denning, 1964; Erman & Erman, 1990; Myers & Resh, 1999; Resh & Mendez, 2022);  
 NV (Banks, 1903; Ross, 1944; Schmid, 1955; Ruiters, Baumann, & Flint, 2014).  
*Homophylax rentzi* Denning, 1964, CA;  
 CA (Denning, 1964; Erman & Erman, 1990; Resh & Mendez, 2022).  
  
*Hydatophylax argus* (Harris, 1869), Phryganea, ME;  
 photo, male & female genitalia (Schmid, 1950);  
 photo of adult; male & female genitalia (Schmid, 1980);  
 male genitalia (Marshall & Larson, 1982);  
 male & female genitalia (Houghton, 2012);  
 Canada (Provancher, 1877);  
 GA/SC (Hudson & Nichols, 1986);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 northeastern U.S. ME to WI (Ross, 1944);  
 SC to QC to MN (Wiggins, 1977);  
 AL (Harris, 1987; Harris & Lago, 1990; Frazer, Harris, & Ward, 1991;  
 Harris, O'Neil, & Lago, 1991);  
 CT (Britton, 1920; Bilger, 1986; Nelson, 1987; Nelson & Downs, 1995);  
 DE (Lake, 1984);  
 FL (Mattson, Epler, & Hein, 1995);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983, Waltz & McCafferty, 1984;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Hagen, 1873; Neves, 1979; Whitmore 2008);  
 MB (Schmid, 1980; Flannagan & Flannagan, 1982);  
 MD (Flint, 1960);  
 ME (Harris, 1869; Betten, 1934; Procter, 1946; Blickle & Morse, 1966; Huryn & Harris, 2000);  
 MI (Leonard & Leonard, 1949; Petersen & Cummins, 1974; Houghton, Brandin, & Brakel, 2011;  
 Houghton, 2016;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiters, Bright, Hudson, & Armitage, 2018;  
 Houghton & Lardner, 2020; Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Wiggins, 1977; Lager, Johnson, Williams, & McCullough, 1979;  
 MacLean, 1995; Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001;  
 Zhou, 2011; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NB (Zhou, 2011);  
 NC (Flint, 1960; Penrose, Lenat, & Eagleson, 1982; Lenat, 1983; Armitage & Tennessen, 1984;  
 Floyd, Morse, & Harris, 1997; DeWalt, Jacobus, & McCafferty, 2007;  
 Lenat, Ruiters, Parker, Robinson, Beaty, & Flint, 2010; Zhou, 2011; Park, 2018);  
 NF (Marshall & Larson, 1982);  
 NH (Morse & Blickle, 1953; Bilger, 1986);  
 NJ (Smith, 1900; Smith, 1910; Zhou, 2011);  
 NY (Lloyd, 1921; Myers, Kondratieff, Mihuc, & Ruiters, 2011);  
 OH (McElravy, Arsuffi, & Foote, 1977; Huryn & Foote, 1983; MacLean & MacLean, 1984;  
 Usis & MacLean, 1986; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Zhou, 2011);  
 PA (Swegman, Walker, & Sykora, 1981; Masteller & Flint, 1992; Zhou, 2011);



- Hoenig, Trevelline, Nuttle, & Porter, 2021);  
 PE (Dobrin & Giberson, 2003);  
 QC (Robert, 1958; Roy & Harper, 1975; Roy & Harper, 1979; Wiggins, 1977; Schmid, 1980;  
 Harper, 1989);  
 SC (Flint, 1960; Wiggins, 1977; Morse et al, 1979; Morse, Hamilton, & Hoffman, 1989;  
 Floyd, Morse, & Harris, 1997);  
 TN (Edwards, 1966; Etnier & Schuster, 1979; Etnier, Baxter, Fraley, & Parker, 1998;  
 Zhou, 2011);  
 VA (Parker & Voshell, 1981; Flint, Hoffman, & Parker, 2008);  
 WA (Blinn & Ruiter, 2013);  
 WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
 Shapas & Hilsenhoff, 1976; Steven & Hilsenhoff, 1984; Hilsenhoff, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Hill & Tarter, 1978; Tarter & Hill, 1980; Tarter, 1990; Tarter & Floyd, 2016).
- Hydatophylax hesperus* (Banks, 1914), *Stenophylax*, BC;  
*Astenophylax needhami* Ling, 1938, CA (Banks, 1943);  
 male & female genitalia (Schmid, 1955);  
 photos of larvae in cases (Anderson, 1976);  
 larva, case (Wiggins, 1977);  
 AK to CA (Wiggins, 1977);  
 CA-OR (Dudley & Anderson, 1982);  
 AK (Wiggins, 1977);  
 BC (Banks, 1914; Gibson, 1915; Ross & Spencer, 1952);  
 CA (Ling, 1938; Ross & Spencer, 1952; Denning, 1956; Wiggins, 1977; Erman, 1989;  
 Resh & Mendez, 2022);  
 OR (Anderson & Wold, 1972; Anderson, 1976; Wiggins, 1977;  
 Dudley & Anderson, 1982; Anderson, Cooper, & Denning, 1982;  
 Anderson, Wisseman, & Courtney, 1984;  
 Wisseman & Anderson, 1984; Anderson & Hansen, 1987);  
 UT (Ruiter, 1999);  
 WA (Banks, 1943; Anderson & Wisseman, 1987;  
 Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013).
- Hydatophylax variabilis* (Martynov, 1910), *Platyphylax*, Yamal [Arctic Russia];  
 AK (Wiggins, 1977; Schmid, 1980; Irons, 1988; Kendrick & Huryn, 2014);  
 Yamal [Arctic Russia] (Martynov, 1910);  
 Arctic Palaearctic Region (Fischer, 1969; Schmid, 1980).
- Hydatophylax victor* Banks, 1950, ME;  
*Hydatophylax argulus* Schmid, 1950, ME (Schmid, 1955);  
 ME (Banks, 1950; Schmid, 1950; Schmid, 1955; Blickle & Morse, 1966);  
 NS (Schmid, 1980);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 QC (Roy & Harper, 1979; Schmid, 1980);  
 VT (Wimmer, 1979).
- Ironoquia kaskaskia* (Ross, 1944), *Caborius*, IL;  
*Ironoquia brysoni* Flint, 1972, MS (Etnier & Way, 1973);  
 photograph of male & female (Denson, Rasmussen, & Harris, 2016);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris, 1987; Harris & Lago, 1990; Harris, 1990; Harris, O'Neil, & Lago, 1991;  
 Moulton & Stewart, 1996);  
 AR (Ruiter, 2000);  
 DE (Lake, 1984; Moulton & Stewart, 1996);  
 FL (Denson, Rasmussen, & Harris, 2016);  
 IL (Ross, 1944; Schmid, 1955; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

- IN (Ross, 1944; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
KY (Etnier, Bauer, & Zirkle, 2006; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
LA (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
MD (Flint, 2008);  
MS (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996);  
OH (Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
TN (Etnier & Way, 1973; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998);  
VA (Flint, Hoffman, & Parker, 2008);  
WV (Hill & Tarter, 1978; Tarter & Hill, 1980; Tarter, 1990;  
Moulton & Stewart, 1996; Tarter & Floyd, 2016).
- Ironoquia lyrata* (Ross, 1938), Caborius, IL;  
male genitalia (Houghton, 2012);  
CT (Nelson, 1987; Nelson & Downs, 1995);  
IL (Ross, 1938;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
IN (Waltz & McCafferty, 1983;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
KY (Haag & Hill, 1983; Etnier, Bauer, & Zirkle, 2006;  
Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
ME (Procter, 1946; Blickle & Morse, 1966; Huryn & Harris, 2000);  
MI (Houghton, Brandin, & Brakel, 2011; Houghton, 2016;  
Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
Houghton, 2022;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MN (Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NY (McCabe, 1986; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
OH (McElravy, Arsuffi, & Foote, 1977; Huryn & Foote, 1983; Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
PA (Ross, 1938; Swegman, Walker, & Sykora, 1981; Masteller & Flint, 1992);  
QC (Mackay, 1969; Wiggins, 1977; Roy & Harper, 1979);  
VA (Flint, Hoffman, & Parker, 2008);  
WI (Ross, 1944; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Steven & Hilsenhoff, 1984;  
Hilsenhoff, 1995;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
WV (Tarter & Floyd, 2016).
- Ironoquia parvula* (Banks, 1900), Chaetopterygopsis, NJ;  
larva (Flint, 1958; Flint, 1960);  
CT (Nelson, 1987; Nelson & Downs, 1995);  
DE (Lake, 1984);  
MA (Whitmore, 2021);  
MI (DeWalt & South, 2015;  
Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NB (Ross, 1944);  
NH (Morse & Blickle, 1953);  
NJ (Banks, 1900);  
NY (Flint, 1960; McCabe, 1986);  
OH (McElravy, Arsuffi, & Foote, 1977; Huryn & Foote, 1983; MacLean & MacLean, 1984;  
Usis & MacLean, 1986; Garono & MacLean, 1988; Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

PA (Swegman, Walker, & Sykora, 1981; Masteller & Flint, 1992);  
 VA (Roeding & Smock, 1989; Flint, Hoffman, & Parker, 2008).

*Ironoquia plattensis* Alexander & Whiles, 2000, NE;  
 NE (Alexander & Whiles, 2000; Harner & Geluso, 2012;  
 Vivian, Cavallaro, Kneeland, Lindroth, Hoback, Farnsworth-Hoback, Harms, & Foster,  
 2013; Cavallaro, Vivian, & Hoback, 2015;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).

*Ironoquia punctatissima* (Walker, 1852), Halesus, NS;  
 larva (Flint, 1958; Flint, 1960);  
 pupa, case sieve membranes (Williams & Williams, 1975);  
 male & female genitalia (Schmid, 1980);  
 male genitalia (Houghton, 2012);  
 Canada (Banks, 1900);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AK (Banks, 1900; Moulton & Stewart, 1996);  
 AL (Harris, Lago, & O'Neil, 1984; Harris, 1987; Harris & Lago, 1990;  
 Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996;  
 Hicks & Haynes, 2000a; Hicks & Haynes, 2000b);  
 AR (Bowles & Mathis, 1989; Moulton & Stewart, 1996; Bowles, 2020;  
 Bowles, Cheri, Usrey, & Williams, 2020);  
 CT (Nelson, 1987; Nelson & Downs, 1995; Moulton & Stewart, 1996);  
 DE (Lake, 1984; Moulton & Stewart, 1996);  
 FL (Gordon, 1984; Pescador, Rasmussen, & Harris, 1995, 2004;  
 Moulton & Stewart, 1996; Denson, Rasmussen, & Harris, 2016);  
 GA (Zhou, 2011);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1944; Hamilton & Schuster, 1980; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1944; Hamilton & Schuster, 1978; Waltz & McCafferty, 1983;  
 Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton & Schuster, 1980; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Hamilton & Schuster, 1980; Moulton & Stewart, 1996;  
 Etnier, Bauer, & Zirkle, 2006; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996);  
 MA (Betten 1934; Neves, 1979; Hamilton & Schuster, 1980; Moulton & Stewart, 1996;  
 Whitmore 2008);  
 MD (Banks, 1904; Moulton & Stewart, 1996);  
 ME (Betten, 1934; Procter, 1946; Blickle & Morse, 1966; Hamilton & Schuster, 1980;  
 Moulton & Stewart, 1996; Huryn & Harris, 2000);  
 MI (Ellis, 1962; Hamilton & Schuster, 1980; Moulton & Stewart, 1996;  
 Houghton, Brandin, & Brakel, 2011;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Lager, Johnson, Williams, & McCullough, 1979;  
 MacLean, 1995; Moulton & Stewart, 1996;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Bowles, 2020;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996);  
 NC (Brimley, 1938; Wray, 1950; Hamilton & Schuster, 1980; Armitage & Tennessen, 1984;  
 Lenat, 1987; Moulton & Stewart, 1996; Floyd, Morse, & Harris, 1997);

NH (Morse & Blickle, 1953; Hamilton & Schuster, 1980; Moulton & Stewart, 1996);  
 NJ (Smith, 1910; Moulton & Stewart, 1996);  
 NS (Walker, 1852; Hamilton & Schuster, 1980; Moulton & Stewart, 1996;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NY (Ulmer, 1907; Hamilton & Schuster, 1980; McCabe, 1986;  
 Moulton & Stewart, 1996; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Ross, 1944; Hamilton & Schuster, 1980; Petersen & Foote, 1980; Huryn & Foote, 1983;  
 MacLean & MacLean, 1984; Usis & MacLean, 1986; Garono & MacLean, 1988;  
 Moulton & Stewart, 1996; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Bowles & Mathis, 1992; Moulton & Stewart, 1996);  
 ON (Williams & Williams, 1975; Williams & Hynes, 1976; Bärlocher, Mackay, & Wiggins, 1978;  
 Wiggins, Mackay, & Smith, 1980; Williams, Tavares, & Bryant, 1987;  
 D. Williams, 1991; Moulton & Stewart, 1996; Zhou, 2011);  
 PA (Hyland, 1948; Hamilton & Schuster, 1980; Swegman, Walker, & Sykora, 1981;  
 Masteller & Flint, 1992; Moulton & Stewart, 1996);  
 QC (Roy & Harper, 1979; Moulton & Stewart, 1996);  
 SC (Morse, Hamilton, & Hoffman, 1989; Moulton & Stewart, 1996; Moulton & Stewart, 1996);  
 TN (Etnier & Schuster, 1979; Hamilton & Schuster, 1980; Moulton & Stewart, 1996;  
 Etnier, Baxter, Fraley, & Parker, 1998; Etnier, Bauer, & Zirkle, 2006; Zhou, 2011);  
 TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);  
 VA (Parker & Voshell, 1981; Hoffman & Parker, 1997; Moulton & Stewart, 1996;  
 Flint, Hoffman, & Parker, 2008; Zhou, 2011; Flint, 2011);  
 VT (Wimmer, 1979; Moulton & Stewart, 1996);  
 WI (Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hilsenhoff, 1995;  
 Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Hill & Tarter, 1978; Hamilton & Schuster, 1980;  
 Tarter & Hill, 1979; Tarter & Hill, 1980; Tarter, 1990;  
 Moulton & Stewart, 1996; Tarter & Floyd, 2016).

*Lenarchus* (*Paralenarchus*) *brevipennis* (Banks, 1899), *Stenophylax*, CO;  
 male & female genitalia (Schmid, 1952; Nimmo, 1971);  
 CO to OR to AB (Nimmo, 1971);  
 AB (Nimmo, 1971; Schmid, 1980);  
 BC (Nimmo & Scudder, 1978; Schmid, 1980);  
 CA (Resh & Mendez, 2022);  
 CO (Banks, 1899; Dodds & Hisaw, 1925; Schmid, 1952; Schmid, 1955; Nimmo, 1971;  
 Herrmann, Ruiter, & Unzicker, 1986; Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
 Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
 ID (Smith, 1965; Nimmo, 1971; Newell & Minshall, 1977);  
 MT (Nimmo, 1971; Roemhild, 1982);  
 OR (Nimmo, 1971; Anderson, 1976);  
 UT (Nimmo, 1971);  
 WY (Schmid, 1952; Schmid, 1955; Nimmo, 1971; Ruiter & Lavigne, 1985).  
*Lenarchus* (*L.*) *crassus* (Banks, 1920), *Limnephilus*, MA;  
 male genitalia (Nimmo, 1971; Marshall & Larson, 1982; Houghton, 2012);  
 AB (Nimmo, 1971; Flannagan & MacDonald, 1987);  
 BC (Nimmo & Scudder, 1978; Schmid, 1980);  
 MA (Banks, 1920);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

- NF (Schmid, 1980; Marshall & Larson, 1982);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 QC (Schmid, 1952; Nimmo, 1971; Roy & Harper, 1979;  
 Flannagan & MacDonald, 1987; Harper, 1989);  
 YT (Wiggins & Parker, 1997).
- Lenarchus* (*L.*) *expansus* Martynov, 1914, Arctic eastern Siberia;  
*Limnephilus taronus* Ross, 1941, AK (Ross & Merkley, 1952);  
 male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
 AK (Ross, 1941; Schmid, 1952; Schmid, 1955; Schmid, 1968; Schmid, 1980;  
 Oláh, Anderson, Beshkov, et al, 2019);  
 YT (Schmid, 1968; Schmid, 1980; Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997;  
 Kendrick & Huryn, 2014);  
 eastern Siberia (Martynov, 1914; Schmid, 1955).
- Lenarchus* (*Paralenarchus*) *fautini* (Denning, 1949), *Limnephilus*, WY;  
 male genitalia (Schmid, 1952; Nimmo, 1971);  
 photos of larva & case, head (Ruiter, Boyle, & Zhou, 2013);  
 AB (Nimmo, 1971; Schmid, 1980);  
 BC (Ross & Spencer, 1952; Nimmo, 1971; Nimmo & Scudder, 1978; Schmid, 1980);  
 CO (Herrmann, Ruiter, & Unzicker, 1986; Ruiter, 1996;  
 Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
 Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
 MB (Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruiter, Boyle, & Zhou, 2013;  
 Chatila-Amos, 2021);  
 NT (Ross & Spencer, 1952; Nimmo, 1986);  
 UT (Baumann & Unzicker, 1981);  
 WY (Denning, 1949; Nimmo, 1971; Ruiter & Lavigne, 1985);  
 YT (Schmid, 1980; Wiggins & Parker, 1997).
- Lenarchus* (*Paralenarchus*) *gravidus* (Hagen, 1861), *Limnophilus*, CA;  
*Limnephilus rotundatus* Banks, 1918, CA (Milne, 1935);  
 male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
 BC (Anonymous, 1906, according to Nimmo & Scudder, 1978);  
 CA (Hagen, 1861; Banks, 1918; Schmid, 1952; Schmid, 1955;  
 Oláh, Anderson, Beshkov, et al, 2019; Resh & Mendez, 2022);  
 OR (Anderson, 1976).
- Lenarchus* (*Prolenarchus*) *keratus* (Ross, 1938), *Limnephilus*, ON;  
 male genitalia (Nimmo, 1977; Schmid, 1980; Houghton, 2012);  
 photo of adult (Schmid, 1980);  
 male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
 AB (Nimmo, 1977; Schmid, 1980);  
 ME (Huryn & Harris, 2000);  
 MI (Schmid, 1952; Schmid, 1955; Nimmo, 1977; Schmid, 1980;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1968; Nimmo, 1977; Houghton, Holzenthal, Monson, & MacLean, 2001;  
 Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 ON (Ross, 1938; Schmid, 1955; Nimmo, 1977; Schmid, 1980);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979; Nimmo, 1977; Schmid, 1980;  
 Oláh, Anderson, Beshkov, et al, 2019);  
 YT (Wiggins & Parker, 1997).
- Lenarchus* (*L.*) *productus* (Morton, 1896), *Asynarchus*, Finland;  
 NT (Cordero, Sánchez-Ramírez, & Currie, 2017);
- Lenarchus* (*L.*) *rho* (Milne, 1935), *Limnephilus*, WA;  
*Clistoronia bifidus* Ling, 1938, OR (Ross, 1944);  
 photo of adult; male & female genitalia (Schmid, 1980);

- BC (Milne, 1935; Schmid & Guppy, 1952; Ross & Spencer, 1952; Wiggins, 1977; Nimmo & Scudder, 1978; Schmid, 1980);  
 OR (Ling, 1938; Ross & Spencer, 1952; Anderson, 1976; Anderson & Hansen, 1987);  
 WA (Milne, 1935; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013).
- Lenarchus* (*Paralenarchus*) *rillus* (Milne, 1935), *Limnophilus*, NV;  
 male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
 AK (Vineyard, 1982);  
 CA (Denning, 1956; Erman, 1987; Erman, 1989; Erman & Erman, 1990; Givens, 2014; Oláh, Anderson, Beshkov, et al, 2019; Resh & Mendez, 2022);  
 MT (Schmid, 1952);  
 NV (Milne, 1935; Ruiter, Baumann, & Flint, 2014);  
 OR (Milne, 1935; Schmid, 1952; Anderson, 1976).
- Lenarchus* (*Paralenarchus*) *vastus* (Hagen, 1861), *Limnophilus*, AK;  
*Limnophilus intermedius* Banks, 1918, WA (Ross, 1944; Ross & Merkeley, 1952);  
 male & female genitalia (Nimmo, 1971; Schmid, 1980);  
 larva, case (Wiggins, 1977);  
 male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
 AK to CA (Nimmo, 1971);  
 AB (Nimmo, 1971);  
 AK (Hagen, 1861; Banks, 1892; Ross, 1944; Nimmo, 1971; Ellis, 1978; Vineyard, 1982; Flannagan & MacDonald, 1987);  
 BC (Schmid & Guppy, 1952; Ross & Spencer, 1952; Nimmo, 1971; Nimmo & Scudder, 1978; Flannagan & MacDonald, 1987);  
 CA (Nimmo, 1971; Resh & Mendez, 2022);  
 ID (Nimmo, 1971);  
 NH (Morse & Blickle, 1953);  
 NT (Flannagan & MacDonald, 1987);  
 OR (Nimmo, 1971; Anderson, 1976; Wiggins, 1977; Anderson, Cooper, & Denning, 1982; Oláh, Anderson, Beshkov, et al, 2019);  
 QC (Flannagan & MacDonald, 1987);  
 WA (Banks, 1918; Ross & Spencer, 1952; Nimmo, 1971; Anderson & Wisseman, 1987; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013);  
 YT (Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997).
- Leptophylax gracilis* Banks, 1900, MN;  
 wings, male & female genitalia (Schmid, 1980);  
 male genitalia (Houghton, 2012);  
 male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
 northeastern U.S. (Schmid, 1955);  
 IL (Ross, 1944; Oláh, Anderson, Beshkov, et al, 2019; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MI (Betten, 1934; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Banks, 1900; Etnier, 1965; Schmid, 1980; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012; Oláh, Anderson, Beshkov, et al, 2019; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ND (Harris, Lago, & Carlson, 1980; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NY (Sibley, 1926; Schmid, 1980);  
 SD (Ross, 1944; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hilsenhoff, 1995);

Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
WV (Hill & Tarter, 1978; Tarter, 1990; Tarter & Floyd, 2016).

- Limnephilus abbreviatus* Banks, 1908, CO;  
male genitalia (Ross & Merkley, 1952);  
male & female genitalia (Ruiter, 1995);  
AZ (Ruiter, 1996; Houghton, 2001; Blinn & Ruiter, 2006);  
CO (Banks, 1908; Dodds & Hisaw, 1925; Schmid, 1955; Herrmann, Ruiter, & Unzicker, 1986;  
Ruiter, 1995; Ruiter, 1996; Ruse & Herrmann, 2000;  
Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
UT (Baumann & Unzicker, 1981; Ruiter, 1995);  
WA (Newell, Ruiter, & Strenge, 2001);  
WY (Ross & Merkley, 1952; Schmid, 1955; Ruiter & Lavigne, 1985; Ruiter, 1995).
- Limnephilus acnestus* Ross, 1938, CA;  
male & female genitalia (Ruiter, 1995);  
AZ (Ruiter, 1995; Blinn & Ruiter, 2006);  
CA (Ross, 1938; Denning, 1956; Ruiter, 1995; Resh & Mendez, 2022);  
CO (Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
UT (Ruiter, 1995).
- Limnephilus acula* Ross & Merkley, 1952, WA;  
male & female genitalia (Ruiter, 1995);  
BC (Ross & Merkley, 1952; Ruiter, 1995);  
CA (Denning, 1965; Ruiter, 1995; Resh & Mendez, 2022);  
NV (Ruiter, 1995; Ruiter, Baumann, & Flint, 2014);  
WA (Ross & Merkley, 1952; Ruiter, 1995; Zack, Ruiter, Strenge, & Landolt, 2006).
- Limnephilus adapus* Ross, 1950, TX;  
male & female genitalia (Ruiter, 1995);  
TX (Ross, 1950; Schmid, 1955; Ruiter, 1995; Moulton & Stewart, 1997).
- Limnephilus ademus* Ross, 1941, NB;  
adult protarsus, male & female genitalia (Marshall & Larson, 1982);  
male & female genitalia (Ruiter, 1995);  
photos of larva & case, head (Ruiter, Boyle, & Zhou, 2013);  
LB (Wiggins, 1961; Ruiter, 1995);  
MB (Ruiter, Boyle, & Zhou, 2013; Chatila-Amos, 2021);  
MI (Ruiter, 2010;  
Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NB (Ross, 1941; Schmid, 1955; Ruiter, 1995);  
NF (Wiggins, 1961; Marshall & Larson, 1982; Ruiter, 1995);  
PE (Flint & Giberson, 2005).
- Limnephilus alagnaki* Ruiter, 1995, AK;  
AK (Ruiter, 1995).
- Limnephilus alaicus* (Martynov, 1915), Astratus, Tadjikistan  
photos of larva & case, head (Ruiter, Boyle, & Zhou, 2013);  
MB (Ruiter, Boyle, & Zhou, 2013; Chatila-Amos, 2021);  
NT (Cordero, Sánchez-Ramírez, & Currie, 2017; Pentinsaari, Blagojev, Hogg, et al, 2020).
- Limnephilus alberta* Denning, 1958, AB;  
male & female genitalia (Nimmo, 1971; Ruiter, 1995);  
AB (Denning, 1958; Nimmo, 1971; Ruiter, 1995);  
BC (Nimmo, 1971; Nimmo & Scudder, 1978; Nimmo & Scudder, 1983; Ruiter, 1995);  
MT (Roemhild, 1982; Ruiter, 1995);  
WY (Ruiter & Lavigne, 1985; Ruiter, 1995).
- Limnephilusalconura* Ross & Merkley, 1952, OR;  
female genitalia (Denning, 1965);

- male & female genitalia (Ruiter, 1995);  
 CA (Denning, 1965; Ruiter, 1995; Resh & Mendez, 2022);  
 OR (Ross & Merkley, 1952; Anderson, 1976; Ruiter, 1995);  
 WA (Anderson & Wisseman, 1987; Ruiter, 1995).
- Limnephilus apache* Flint, 1965, AZ;  
 male & female genitalia (Ruiter, 1995);  
 AZ (Flint, 1965; Ruiter, 1995; Ruiter, 1996; Blinn & Ruiter, 2006);  
 CO (Ruiter, 1990; Ruiter, 1995; Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 NM (Flint, 1965; Ruiter, 1995; Vieira, Kondratieff, Ruiter, & Durfee, 2009)  
 UT (Ruiter, 1995).
- Limnephilus aretto* Ross, 1938, WA;  
*Colpotaulius tehamia* Ling, 1938, CA (Ross, 1944);  
 male & female genitalia (Ruiter, 1995);  
 CA (Ling, 1938; Ross & Merkley, 1952; Denning, 1956; Ruiter, 1995; Resh & Mendez, 2022);  
 OR (Ross & Merkley, 1952; Anderson, 1976;  
 Anderson & Hansen, 1987; Ruiter, 1995; Anderson, 1997);  
 WA (Ross, 1938; Ruiter, 1995).
- ? *Limnephilus argenteornatus* Hagen, 1873, MA;  
 “nomen dubium (“nomen nudum”)” according to Ruiter (1995);  
 New England (Hagen, 1873);  
 MA (Hagen, 1873);  
 NH (Hagen, 1873).
- Limnephilus argenteus* Banks, 1914, ON;  
*Limnephilus vernalis* Nimmo, 1977, AB (Ruiter, 1995);  
 male & female genitalia (Nimmo, 1971; Ruiter, 1995; Houghton, 2012);  
 male genitalia (Marshall & Larson, 1982);  
 photos of larva & case, head (Ruiter, Boyle, & Zhou, 2013);  
 male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
 AB (Nimmo, 1971; Nimmo, 1977); Flannagan & MacDonald, 1987; Ruiter, 1995;  
 Oláh, Anderson, Beshkov, et al, 2019; Lonsdale, 2020);  
 AK (Flannagan & MacDonald, 1987; Ruiter, 1995; Kendrick & Hury, 2014);  
 BC (Nimmo & Scudder, 1983; Ruiter, 1995);  
 IL (Ross, 1944; Nimmo, 1971; Ruiter, 1995);  
 MB (Ruiter, 1995; Ruiter, Boyle, & Zhou, 2013; Chatila-Amos, 2021);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1968; Ruiter, 1995; Houghton, Holzenthal, Monson, & MacLean, 2001;  
 Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Marshall & Larson, 1982; Flannagan & MacDonald, 1987; Ruiter, 1995;  
 Oláh, Anderson, Beshkov, et al, 2019);  
 NT (Ross, 1938; Nimmo, 1971; Nimmo, 1986; Flannagan & MacDonald, 1987; Ruiter, 1995;  
 Cordero, Sánchez-Ramírez, & Currie, 2017);  
 ON (Banks, 1914; Nimmo, 1971; Flannagan & MacDonald, 1987; Ruiter, 1995;  
 Oláh, Anderson, Beshkov, et al, 2019);  
 QC (Roy & Harper, 1979; Flannagan & MacDonald, 1987; Harper, 1989; Ruiter, 1995);  
 WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hilsenhoff, 1995;  
 Ruiter, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 YT (Nimmo & Wickstrom, 1984; Ruiter, 1995; Wiggins & Parker, 1997;  
 Oláh, Anderson, Beshkov, et al, 2019).
- Limnephilus arizona* Ross, 1941, WY;  
 male & female genitalia (Ruiter, 1995);  
 AZ (Ross, 1941; Schmid, 1955; Ruiter, 1995; Blinn & Ruiter, 2006);



- UT (Baumann & Unzicker, 1981; Ruiter, 1995);  
 WY (Ross, 1941; Schmid, 1955; Ruiter & Lavigne, 1985; Ruiter, 1995; Ruiter, 1996).
- Limnephilus assimilis* (Banks, 1908), Anabolia, AZ;  
 male & female genitalia (Denning, 1965; Ruiter, 1995);  
 AZ (Banks, 1908; Ruiter, 1995; Blinn & Ruiter, 2006);  
 CA (Ross & Merkley, 1952; Schmid, 1955; Ruiter, 1995; Resh & Mendez, 2022);  
 NV (Ruiter, 1995; Ruiter, Baumann, & Flint, 2014);  
 UT (Denning, 1965; Baumann & Unzicker, 1981; Ruiter, 1995);  
 WA (Ruiter, 1995; Newell, Ruiter, & Strenge, 2001;  
 Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005;  
 Zack, Ruiter, Strenge, & Landolt, 2006).
- Limnephilus atercus* Denning, 1965, CA;  
 case (Wiggins, 1977);  
 male genitalia (Ruiter, 1995);  
 female genitalia (possibly *atercus* & listed as species 2 in Ruiter, 1995);  
 AK (Vineyard, 1982; Ruiter, 1995);  
 CA (Denning, 1965; Ruiter, 1995; Resh & Mendez, 2022);  
 OR (Anderson, 1976; Ruiter, 1995).
- Limnephilus bifidus* Banks, 1908, WA;  
*Limnephilus insularis* Schmid, 1950, BC (Ruiter, 1995);  
 [nomen dubium Ross, 1938];  
 female genitalia (Flint, 1966);  
 male & female genitalia (Ruiter, 1995);  
 AB (Nimmo, 1977; Ruiter, 1995);  
 BC (Betten, 1934; Schmid, 1950; Schmid, & Guppy, 1952; Ross & Spencer, 1952;  
 Schmid, 1955; Nimmo, 1977; Nimmo & Scudder, 1978; Ruiter, 1995);  
 ID (Nimmo, 1977; Ruiter, 1995);  
 MT (Jones & Resh, 1988; Ruiter, 1995);  
 OR (Anderson, 1976; Ruiter, 1995);  
 WA (Banks, 1908; ; Ruiter, 1995; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005).
- Limnephilus bucketti* Denning, 1965, CA;  
 male & female genitalia (Ruiter, 1995);  
 AZ (Blinn & Ruiter, 2006);  
 CA (Denning, 1965; Ruiter, 1995; Givens, 2014; Resh & Mendez, 2022);  
 NV (Ruiter, Baumann, & Flint, 2014);  
 UT (Baumann & Unzicker, 1981; Ruiter, 1995).
- Limnephilus canadensis* Banks, 1908, QC;  
 male & female genitalia (Nimmo, 1971; Ruiter, 1995);  
 head & male genitalia (Houghton, 2012);  
 case (Wiggins, 1977);  
 photos of larva & case, head (Ruiter, Boyle, & Zhou, 2013);  
 Canada (Schmid, 1955);  
 ME to AB (Nimmo, 1971);  
 AB (Nimmo, 1971; Ruiter, 1995);  
 BC (Nimmo & Scudder, 1978; Ruiter, 1995);  
 MB (Flannagan & Flannagan, 1982; Cobb, Flannagan, & Friesen, 1984; Ruiter, 1995;  
 Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruiter, Boyle, & Zhou, 2013;  
 Chatila-Amos, 2021);  
 ME (Banks, 1908; Schmid, 1955; Blickle & Morse, 1966; Nimmo, 1971; Ruiter, 1995);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Denning, 1937; Schmid, 1955; Etnier, 1965; Nimmo, 1971; Ruiter, 1995;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Roemhild, 1982; Ruiter, 1995);

- ND (Harris, 1978; Ruiter, 1995;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NT (Nimmo, 1986; Ruiter, 1995; Cordero, Sánchez-Ramírez, & Currie, 2017);  
NY (McCabe, 1986; Ruiter, 1995);  
ON (Ruiter, 1995);  
OR (Anderson, 1976; Ruiter, 1995);  
QC (Banks, 1908; Roy & Harper, 1979; Harper, 1989; Ruiter, 1995);  
SK (Milne, 1943; Nimmo, 1971; Ruiter, 1995);  
WI (Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hilsenhoff, 1995; Ruiter, 1995;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
YT (Nimmo & Wickstrom, 1984; Ruiter, 1995; Wiggins & Parker, 1997).
- Limnephilus castor* Ross & Merkley, 1952, UT;  
male & female genitalia (Ruiter, 1995);  
CO (Herrmann, Ruiter, & Unzicker, 1986; Ruiter, 1995; Ruiter, 1996;  
Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
NM (Ruiter, 1995; Vieira, Kondratieff, Ruiter, & Durfee, 2009);  
NV (Ruiter, Baumann, & Flint, 2014);  
SD (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
UT (Ross & Merkley, 1952; Ruiter, 1995);  
WY (Ruiter & Lavigne, 1985; Ruiter, 1995).
- Limnephilus catula* Denning, 1965, CA;  
female genitalia (Denning, 1966);  
male & female genitalia (Ruiter, 1995);  
CA (Denning, 1965; Ruiter, 1995; Resh & Mendez, 2022);  
OR (Denning, 1966; Anderson, 1976; Ruiter, 1995).
- Limnephilus challisa* Denning, 1958, ID;  
male & female genitalia (Ruiter, 1995);  
ID (Denning, 1958; Newell & Minshall, 1977; Ruiter, 1995).
- Limnephilus cockerelli* Banks, 1900, NM;  
*Limnephilus loloensis* Smith, 1971, ID/MT border (Ruiter, 1995);  
male genitalia (Ross, 1938);  
male & female genitalia (Nimmo, 1971; Ruiter, 1995);  
AB (Nimmo, 1971; Ruiter, 1995);  
ID (Nimmo, 1971; Smith, 1971; Ruiter, 1995);  
MT (Smith, 1971; Roemhild, 1982; Ruiter, 1995);  
NM (Banks, 1900; Ross, 1941; Nimmo, 1971; Ruiter, 1995);  
OR (Ruiter, 1995);  
UT (Ross & Merkley, 1952; Nimmo, 1971; Baumann & Unzicker, 1981; Ruiter, 1995);  
WY (Ross & Merkley, 1952; Nimmo, 1971; Ruiter & Lavigne, 1985; Ruiter, 1995;  
Ruiter, 1996).
- Limnephilus coloradensis* (Banks, 1899), *Goniotaulius*, CO;  
male genitalia (Ross, 1938);  
male & female genitalia (Swegman & Ferrington, 1980; Ruiter, 1995);  
male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
CA (Denning, 1956; Ruiter, 1995; Resh & Mendez, 2022);  
CO (Banks, 1899; Dodds & Hisaw, 1925; Herrmann, Ruiter, & Unzicker, 1986; Ruiter, 1995;  
Ruiter, 1996; Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
Oláh, Anderson, Beshkov, et al, 2019;  
Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
UT (Ross & Merkley, 1952; Baumann & Unzicker, 1981; Ruiter, 1995);  
WY (Ross & Merkley, 1952; Swegman & Ferrington, 1980;  
Ruiter & Lavigne, 1985; Ruiter, 1995).
- Limnephilus concolor* Banks, 1899, WA;  
*Limnephilus cerus* Ross & Spencer, 1952, BC (Ruiter, 1995);

- Limnephilus lunonus* Ross, 1941, CA (Ruiter, 1995);  
 female genitalia (Flint, 1966);  
 male & female genitalia (Ruiter, 1995);  
 AK (Vineyard, 1982; Ruiter, 1995);  
 BC (Ross & Spencer, 1952; Schmid, 1955; Flint, 1966; Nimmo & Scudder, 1978;  
     Nimmo & Scudder, 1983; Ruiter, 1995);  
 CA (Ross, 1941; Denning, 1956; Flint, 1966; Ruiter, 1995; Resh & Mendez, 2022);  
 CO (Candell, 1902);  
 OR (Ross, 1941; Anderson, 1967; Anderson, 1976; Anderson & Hansen, 1987; Ruiter, 1995);  
 WA (Banks, 1899; Ross, 1944; Schmid, 1955; Anderson & Wisseman, 1987;  
     Ruiter, 1995; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013).
- Limnephilus diphyes* McLachlan, 1880, Russia (Siberia);  
*Limnephilus isobela* Nimmo, 1991, YT (Wiggins & Parker, 1997);  
 male & female genitalia (Ruiter, 1995; Wiggins & Parker, 1997);  
 AK (Kendrick & Hury, 2014);  
 YT (Ruiter, 1995; Wiggins & Parker, 1997).
- Limnephilus dispar* McLachlan, 1875, Silesia, Posen, Russia, Lithuania, Finland;  
*Stenophylax minusculus* Banks, 1907, WA, (Malicky, 1979);  
*Limnephilus acrocurvus* Denning, 1942, MN, (Ruiter, 1995);  
 male & female genitalia (Nimmo, 1971; Tobias & Tobias, 1981; Ruiter, 1995);  
 AB (Nimmo, 1971; Ruiter, 1995);  
 AK (Nimmo, 1971; Ruiter, 1995);  
 BC (Nimmo, 1971; Nimmo & Scudder, 1978; Ruiter, 1995);  
 CO (Nimmo, 1971; Herrmann, Ruiter, & Unzicker, 1986; ; Ruiter, 1995;  
     Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
     Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
 MB (Nimmo, 1971; Flannagan & Flannagan, 1982; Ruiter, 1995; Ruiter, Boyle, & Zhou, 2013);  
 MI (Nimmo, 1971; Ruiter, 1995;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Denning, 1942; Schmid, 1955; Etnier, 1965; Nimmo, 1971; Ruiter, 1995;  
     Houghton, Holzenthal, Monson, & MacLean, 2001;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Nimmo, 1971; Marshall & Larson, 1982; Ruiter, 1995;  
     Cordero, Sánchez-Ramírez, & Currie, 2017);  
 NT (Nimmo, 1971; Nimmo, 1986; Ruiter, 1995; Cordero, Sánchez-Ramírez, & Currie, 2017);  
 NY (Nimmo, 1971; Ruiter, 1995);  
 ON (Nimmo, 1971; Blades & Marshall, 1994; Ruiter, 1995);  
 QC (Roy & Harper, 1979; Harper, 1989; Ruiter, 1995;  
     Cordero, Sánchez-Ramírez, & Currie, 2017);  
 SK (Ruiter, 1995);  
 WA (Banks, 1907; Nimmo, 1971; Ruiter, 1995);  
 WI (Longridge & Hilsenhoff, 1973; Hilsenhoff, 1981; Hilsenhoff, 1995; Ruiter, 1995;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WY (Ruiter, 1995);  
 YT (Nimmo & Wickstrom, ; Ruiter, 1995; Wiggins & Parker, 1997);  
 Silesia, Posen, Russia, Lithuania, Finland (McLachlan, 1875);  
 Europe (Tobias & Tobias, 1981; Malicky, 1990);  
 northern Palearctic Region (Malicky, 1990).
- Limnephilus diversus* (Banks, 1903), Anabolina, AZ;  
 male genitalia (Ross, 1938);  
 male & female genitalia (Ruiter, 1995);  
 AZ (Banks, 1903; Schmid, 1955; Hamilton & Schuster, 1980; Ruiter, 1995;  
     Ruiter, 1996; Houghton, 2001; Blinn & Ruiter, 2006; Blinn & Ruiter, 2009a);  
 CA (Resh & Mendez, 2022);

- CO (Banks, 1903; Banks, 1907; Schmid, 1955; Hamilton & Schuster, 1980; Herrmann, Ruiter, & Unzicker, 1986; Ruiter, 1995; Ruse & Herrmann, 2000; Zuellig, Heinold, Kondratieff, & Ruiter, 2012; Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);
- ID (Ruiter, 1995);
- KS (Hamilton & Schuster, 1980; Ruiter, 1995; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- NE (Ruiter, 1995; Harris, Kondratieff, & Boyle, 2000; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- NM (Banks, 1904; Ruiter, 1995);
- UT (Ruiter, 1995);
- WY (Ruiter & Lavigne, 1985; Ruiter, 1995).
- Limnephilus ectus* Ross, 1941, OR;  
male & female genitalia (Ruiter, 1995);  
BC (Ruiter, 1995);  
OR (Ross, 1941; Ross, 1944; Anderson, 1976; Ruiter, 1995)  
WA (Ruiter, 1995).
- Limnephilus externus* Hagen, 1861, MB;  
*Limnophilus congener* McLachlan, 1875, Russia, Finland (Ulmer, 1907);  
*Limnephilus luteolus* Banks, 1899, WA (Ross, 1944);  
*Limnephilus oslari* Banks, 1907, CO (Milne, 1935);  
*Limnephilus tersus* Betten, 1934, NY (Ross, 1944);  
male genitalia (Ross, 1938; Marshall & Larson, 1982);  
male & female genitalia (Nimmo, 1971; Tobias & Tobias, 1981; Ruiter, 1995);  
photos of larva & case, head (Ruiter, Boyle, & Zhou, 2013);  
ID to NS (Banks, 1943);  
northern Holarctic Region, WY (Wiggins, 1961);  
NT to CA to NF (Nimmo, 1971);  
AB (Nimmo, 1971; Berté & Pritchard, 1986; Ruiter, 1995);  
AK (Vineyard, 1982; Ruiter, 1995);  
BC (Rawson, 1934; Ross & Spencer, 1952; Schmid & Guppy, 1952; Nimmo, 1971; Nimmo & Scudder, 1978; Ruiter, 1995);  
CA (Denning, 1956; Nimmo, 1971; Erman, 1987; Erman, 1989; Ruiter, 1995; Givens, 2014; Resh & Mendez, 2022);  
CO (Banks, 1907; Dodds & Hisaw, 1925; Nimmo, 1971; Kendall, Kevan, & LaFontaine, 1981; Canton & Ward, 1981; Herrmann, Ruiter, & Unzicker, 1986; Ruiter, 1995; Ruse & Herrmann, 2000; Zuellig, Heinold, Kondratieff, & Ruiter, 2012; Wissinger, Perchik, & Klemmer, 2018; Shepard, Wissinger, Wood, & Greig, 2021; Demi, Hughes, & Taylor, 2022; Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
ID (Banks, 1943; Nimmo, 1971; Ruiter, 1995);  
MB (Hagen, 1861; Neave, 1934; Nimmo, 1971; Flannagan & Flannagan, 1982; Ruiter, 1995; Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruiter, Boyle, & Zhou, 2013; Chatila-Amos, 2021);  
ME (Procter, 1946; Blickle & Morse, 1966; Ruiter, 1995);  
MI (Leonard & Leonard, 1949; Nimmo, 1971; Ruiter, 1995; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MN (Etnier, 1965, doubtful identification according to Houghton, Holzenthal, Monson, & MacLean, 2001, & Houghton, 2012; Nimmo, 1971; Ruiter, 1995; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MT (Newell, 1970; Newell & Potter, 1973; Roemhild, 1982; Ruiter, 1995);  
ND (Harris, Lago, & Carlson, 1980; Ruiter, 1995; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

- NF (Wiggins, 1961; Nimmo, 1971; Marshall & Larson, 1982; Ruiter, 1995);  
 NS (Banks, 1943; Nimmo, 1971; Ruiter, 1995);  
 NT (Nimmo, 1971; Nimmo, 1986; Ruiter, 1995; Cordero, Sánchez-Ramírez, & Currie, 2017);  
 NV (Ruiter, Baumann, & Flint, 2014);  
 NY (Betten, 1934; Nimmo, 1971; Ruiter, 1995; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 ON (Nimmo, 1971; Ruiter, 1995);  
 OR (Nimmo, 1971; Anderson, 1976; Anderson, Cooper, & Denning, 1982; Ruiter, 1995;  
 Anderson, 1997);  
 QC (Nimmo, 1971; Roy & Harper, 1979; Harper, 1989; Ruiter, 1995);  
 SK (Nimmo, 1971; Ruiter, 1995);  
 UT (Knowlton & Harmston, 1939; Nimmo, 1971; Baumann & Unzicker, 1981; Ruiter, 1995);  
 WA (Banks, 1899; Betten, 1934; Nimmo, 1971; Ruiter, 1995; Blinn & Ruiter, 2013);  
 WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hilsenhoff, 1995;  
 Ruiter, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WY (Wiggins, 1961; Nimmo, 1971; Ruiter & Lavigne, 1985; Ruiter, 1995);  
 YT (Nimmo & Wickstrom, 1984; Ruiter, 1995; Wiggins & Parker, 1997;  
 Cordero, Sánchez-Ramírez, & Currie, 2017);  
 Germany (Wiggins, 1961; Tobias & Tobias, 1981);  
 Palearctic region.
- Limnephilus extractus* Walker, 1852, ON;  
 male & female genitalia (Nimmo, 1971; Ruiter, 1995);  
 photos of larva & case, head, thorax (Ruiter, Boyle, & Zhou, 2013);  
 AB (Nimmo, 1971; Flannagan & MacDonald, 1987; Ruiter, 1995);  
 BC (Ruiter, 1995);  
 CA (Resh & Mendez, 2022);  
 ID (Newell & Minshall, 1977; Ruiter, 1995);  
 MB (Banks, 1892; Nimmo, 1971; Flannagan & Flannagan, 1982;  
 Resh, Rosenberg, & Wiens, 1983;  
 Flannagan & MacDonald, 1987; Ruiter, 1995; Ruiter, Boyle, & Zhou, 2013;  
 Chatila-Amos, 2021);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NH (Morse & Blickle, 1953; Ruiter, 1995);  
 NT (Nimmo, 1971; Nimmo, 1986; Flannagan & MacDonald, 1987; Ruiter, 1995);  
 NY (Nimmo, 1971; Ruiter, 1995);  
 ON (Walker, 1852; Ross, 1944; Schmid, 1955; Nimmo, 1971; Flannagan & MacDonald, 1987;  
 Harper, 1989; Ruiter, 1995);  
 QC (Roy & Harper, 1979; Harper, 1989; Ruiter, 1995);  
 SK (Milne, 1934; Nimmo, 1971; Flannagan & MacDonald, 1987; Ruiter, 1995);  
 UT (Baumann & Unzicker, 1981; Ruiter, 1995);  
 YT (Nimmo & Wickstrom, 1984; Ruiter, 1995; Wiggins & Parker, 1997).
- Limnephilus fagus* Ross, 1941, OR;  
*Limnephilus saltus* Denning, 1949, WY (Ruiter, 1995);  
 male genitalia (Ross & Merkley, 1952) [as saltus];  
 male & female genitalia (Ruiter, 1995);  
 AK (Vineyard, 1982; Ruiter, 1995);  
 BC (Ross & Spencer, 1952; Nimmo & Scudder, 1978; Ruiter, 1995);  
 ID (Ross, 1947; Smith, 1969; Ruiter, 1995);  
 MT (Roemhild, 1982; Ruiter, 1995);  
 OR (Ross, 1941; Schmid, 1955; Anderson, 1976; Ruiter, 1995);  
 WA (Anderson & Wisseman, 1987; Ruiter, 1995;  
 Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013)  
 WY (Denning, 1949; Schmid, 1955; Ruiter & Lavigne, 1985; Ruiter, 1995).
- Limnephilus femoralis* Kirby, 1837, Canada;

- Limnephilus nebulosus* Kirby, 1837, Boreal America (preoccupied by Curtis, 1834 - Fischer, 1968);
- Limnephilus perforatus* Walker, 1852, in part (Betten & Mosely, 1940);
- Limnephilus stipatus* Walker, 1852, in part (Betten & Mosely, 1940);
- male & female genitalia (Nimmo, 1971; Ruiter, 1995);
- male genitalia (Marshall & Larson, 1982);
- photos of larva & case, head (Ruiter, Boyle, & Zhou, 2013);
- Canada (Kirby, 1837);
- northern Holarctic Region (Wiggins, 1961);
- AB (Nimmo, 1971; Flannagan & MacDonald, 1987; Ruiter, 1995);
- AK (Banks, 1900; Kolbe, 1912; Nimmo, 1971; Flannagan & MacDonald, 1987; Ruiter, 1995; Kendrick & Huryn, 2014);
- BC (Essig, 1926; Nimmo, 1971; Flannagan & MacDonald, 1987; Ruiter, 1995);
- LB (Packard, 1869; Nimmo, 1971; Flannagan & MacDonald, 1987; Ruiter, 1995);
- MB (Ross & Merkley, 1952; Nimmo, 1971; Flannagan & Flannagan, 1982; Flannagan & MacDonald, 1987; Ruiter, 1995; Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruiter, Boyle, & Zhou, 2013; Chatila-Amos, 2021);
- ME (Johnson, 1927; Nimmo, 1971; Ruiter, 1995);
- MI (Houghton, 2020; Houghton, 2022; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- NF (Banks, 1908; Wiggins, 1961; Nimmo, 1971; Marshall & Larson, 1982; Flannagan & MacDonald, 1987; Ruiter, 1995);
- NT (Nimmo, 1971; Nimmo, 1986; Flannagan & MacDonald, 1987; Ruiter, 1995);
- ON (Kolbe, 1912; Betten & Mosely, 1940; Ross & Merkley, 1952; Nimmo, 1971; Flannagan & MacDonald, 1987; Ruiter, 1995);
- QC (Roy & Harper, 1975; Roy & Harper, 1979; Harper, 1989; Ruiter, 1995);
- WA (Nimmo, 1971; Ruiter, 1995);
- WI (Houghton, 2020; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- YT (Ruiter, 1995; Wiggins & Parker, 1997);
- Russia (Martynov, 1924);
- Scandinavian countries (McLachlan, 1875; Palmen, 1881; Wallengren, 1884; McLachlan, 1896; Forsslund, 1928; Klefbeck, 1928; Forsslund, 1932; Jansson & Sjöberg, 1932; Forsslund, 1951; Hellman, 1952; Forsslund, 1954);
- Siberia (Ulmer, 1927);
- Greenland (Wiggins & Parker, 1997).
- Limnephilus fenestratus* (Zetterstedt, 1840), Phryganea, Lapland;
- Limnephilus miser* McLachlan, 1875, Sweden (Schmid, 1955);
- male & female genitalia (Ruiter, 1995);
- North America (Esben-Petersen, 1908);
- AK (Ross, 1953, as *L. miser*; Ruiter, 1995; Kendrick & Huryn, 2014);
- NT (Ruiter, 1995);
- YT (Ruiter, 1995; Wiggins & Parker, 1997);
- Canada, Greenland (Betten, 1934);
- Scandinavia, Greenland, Iceland, northern Palearctic;
- Iceland (Gíslason, 1978);
- Lapland (Zetterstedt, 1840).
- Limnephilus fischeri* Ruiter, 1995, NT;
- Limnephilus elongatus* Banks, 1920, ON (preoccupied by Stephens, 1837);
- photos of larva & case, head, thorax (Ruiter, Boyle, & Zhou, 2013);
- MB (Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruiter, Boyle, & Zhou, 2013);

- Chatila-Amos, 2021);  
 NT (Ross, 1938; Nimmo, 1986; Ruiter, 1995);  
 ON (Banks, 1920; Ruiter, 1995);  
 OR (Schmid, 1955).
- Limnephilus flavastellus* Banks, 1918, BC;  
 male & female genitalia (Ruiter, 1995);  
 AK (Banks, 1943; Ruiter, 1995);  
 BC (Banks, 1918; Ross, 1938 [as synonym of *L. externus*, see also  
 Nimmo & Scudder, 1983]; Banks, 1943; Ross & Spencer, 1952;  
 Schmid & Guppy, 1952; Hardy, 1955; Ruiter, 1995);  
 CA (Resh & Mendez, 2022);  
 OR (Ruiter, 1995);  
 WA (Ruiter, 1995).
- Limnephilus frijole* Ross, 1944, TX;  
 case (Wiggins, 1977);  
 male & female genitalia (Ruiter, 1995);  
 AZ (Ruiter, 1995; Houghton, 2001; Blinn & Ruiter, 2006);  
 CA (Ross, 1949; Denning, 1956; Ruiter, 1995; Erman, 1989; Resh & Mendez, 2022);  
 CO (Ward, & Dufford, 1979; Herrmann, Ruiter, & Unzicker, 1986; Ruiter, 1995;  
 Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 ID (Newell & Minshall, 1977; Ruiter, 1995);  
 MT (Roemhild, 1982; Ruiter, 1995);  
 NE (Ruiter, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NM (Ross, 1944; Molles, 1982; Molles, 1984; Ruiter, 1995);  
 NV (Ruiter, Baumann, & Flint, 2014);  
 OR (Schmid, 1955; Anderson, 1976; Anderson & Anderson, 1995; Ruiter, 1995);  
 TX (Ross, 1944; Ruiter, 1995; Moulton & Stewart, 1997);  
 UT (Ruiter, 1995);  
 WA (Schmid, 1955; Ruiter, 1995; Newell, Ruiter, & Strenge, 2001; Blinn & Ruiter, 2013);  
 WY (Ruiter & Lavigne, 1985; Ruiter, 1995; Zuellig, Pineda, & Kondratieff, 2002);  
 Mexico (Ross, 1944).
- Limnephilus fumosus* (Banks, 1900), *Asynarchus*, AK;  
*Limnephilus isobela* Nimmo, 1991, YT (Wiggins & Parker, 1997);  
 male & female genitalia (Ruiter, 1995);  
 AK (Banks, 1900; Schmid, 1955; Vineyard, 1982; Ruiter, 1995);  
 NT (Ruiter, 1995);  
 WA (Banks, 1900; Schmid, 1955; Ruiter, 1995; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005;  
 Blinn & Ruiter, 2013);  
 YT (Nimmo, 1991; Ruiter, 1995; Wiggins & Parker, 1997).
- Limnephilus granti* Nimmo, 1991, AZ;  
 male genitalia (Ruiter, 1995);  
 AZ (Nimmo, 1991; Ruiter, 1995; Blinn & Ruiter, 2006; Blinn & Ruiter, 2009a).
- Limnephilus hageni* Banks, 1930, Canada;  
 male & female genitalia (Nimmo, 1971; Ruiter, 1995);  
 photos of larva & case, head (Ruiter, Boyle, & Zhou, 2013);  
 Canada (Banks, 1930; Schmid, 1955);  
 AB (Nimmo, 1971; Flannagan & MacDonald, 1987; Ruiter, 1995);  
 BC (Nimmo, 1971; Nimmo & Scudder, 1978; Nimmo & Scudder, 1983;  
 Flannagan & MacDonald, 1987; Ruiter, 1995);  
 CO (Swegman & Ferrington, 1980; Herrmann, Ruiter, & Unzicker, 1986; Ruiter, 1995);  
 MB (Ruiter, 1995; Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010;  
 Ruiter, Boyle, & Zhou, 2013; Chatila-Amos, 2021);  
 NT (Ross, 1938; Nimmo, 1971; Nimmo, 1986; Flannagan & MacDonald, 1987; Ruiter, 1995);  
 ON (Nimmo, 1971; Flannagan & MacDonald, 1987; Ruiter, 1995);

QC (Roy & Harper, 1979; Harper, 1989; Ruiter, 1995);  
 WY (Swegman & Ferrington, 1980; Ruiter & Lavigne, 1985; Ruiter, 1995);  
 YT (Nimmo & Wickstrom, 1984; Ruiter, 1995; Wiggins & Parker, 1997).  
*Limnephilus harrimani* Banks, 1900, AK;  
*Limnephilus hingstoni* Mosely, 1929, Greenland (Forsslund, 1932);  
 male & female genitalia (Ruiter, 1995);  
 Rocky Mts.[AK to OR] (Schmid, 1955);  
 AB (Ruiter, 1995);  
 AK (Banks, 1900; Ellis, 1978; Vineyard, 1982; Ruiter, 1995);  
 BC (Banks, 1914; Ross, 1938; Schmid & Guppy, 1952; Ross & Spencer, 1952;  
 Nimmo & Scudder, 1978; Ruiter, 1995);  
 MT (Newell & Potter, 1973; Roemhild, 1982; Ruiter, 1995);  
 OR (Ross & Spencer, 1952; Anderson & Wold, 1972; Anderson, 1976;  
 Wisseman & Anderson, 1984; Anderson & Hansen, 1987; Ruiter, 1995);  
 UT (Baumann & Unzicker, 1981; Ruiter, 1995);  
 WA (Ross & Merkley, 1952; Ruiter, 1995; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005;  
 Blinn & Ruiter, 2013);  
 WY (Ruiter, 1995).  
*Limnephilus hyalinus* Hagen, 1861, MB;  
 male genitalia (Ross, 1944; Marshall & Larson, 1982);  
 male & female genitalia (Nimmo, 1971; Ruiter, 1995; Houghton, 2012);  
 northern transcontinental North America (Wiggins, 1961);  
 AB (Nimmo, 1971; Flannagan & MacDonald, 1987; Ruiter, 1995);  
 AK (Nimmo, 1971; Flannagan & MacDonald, 1987; Ruiter, 1995);  
 BC (Banks, 1943; Ross, 1944; Ross & Spencer, 1952; Nimmo, 1971;  
 Nimmo & Scudder, 1978; Flannagan & MacDonald, 1987; Ruiter, 1995);  
 CO (Banks, 1943; Nimmo, 1971; Herrmann, Ruiter, & Unzicker, 1986; Ruiter, 1995;  
 Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
 Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
 ID (Nimmo, 1971; Ruiter, 1995);  
 IL (Ross, 1944; Nimmo, 1971; Ruiter, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MB (Hagen, 1861; Neave, 1934; Nimmo, 1971; Flannagan & Flannagan, 1982;  
 Flannagan & MacDonald, 1987; Ruiter, 1995);  
 ME (Blickle & Morse, 1966; Nimmo, 1971; Ruiter, 1995; Huryn & Harris, 2000);  
 MI (Leonard & Leonard, 1949; Nimmo, 1971; Davis, Hudson, & Armitage, 1991; Ruiter, 1995;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Nimmo, 1971; Ruiter, 1995; Ruiter, 1996;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton & Holzenthal, 2010;  
 Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Roemhild, 1982; Ruiter, 1995);  
 ND (Banks, 1943; Nimmo, 1971; Harris, Lago, & Carlson, 1980; Ruiter, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Wiggins, 1961; Nimmo, 1971; Marshall & Larson, 1982; Flannagan & MacDonald, 1987;  
 Ruiter, 1995);  
 NH (Banks, 1943; Ruiter, 1995);  
 NT (Nimmo, 1971; Nimmo, 1986; Flannagan & MacDonald, 1987; Ruiter, 1995);  
 NY (Betten, 1934; Banks, 1943; Nimmo, 1971; Ruiter, 1995;  
 Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Garono & MacLean, 1988; Ruiter, 1995; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Ross, 1944; Nimmo, 1971; Flannagan & MacDonald, 1987; Ruiter, 1995);  
 OR (Hagen, 1861; Nimmo, 1971; Anderson, 1976; Ruiter, 1995);



QC (Robert, 1958; Corbet, Schmid, & Augustin, 1966; Nimmo, 1971; Roy & Harper, 1975;  
 Roy & Harper, 1979; Flannagan & MacDonald, 1987; Ruiter, 1995);  
 SD (Ruiter, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 SK (Nimmo, 1971; Flannagan & MacDonald, 1987; Ruiter, 1995);  
 VT (Wimmer, 1979; Ruiter, 1995);  
 WI (Nimmo, 1971; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
 Hilsenhoff, 1995; Ruiter, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WY (Nimmo, 1971; Ruiter & Lavigne, 1985; Ruiter, 1995);  
 YT (Nimmo & Wickstrom, 1984; Ruiter, 1995; Wiggins & Parker, 1997).  
*Limnephilus indivisus* Walker, 1852, NS;  
*Limnephilus subguttatus* Walker, 1852, Canada (Betten & Mosely, 1940);  
*Limnephilus selatus* Denning, 1966, UT (Ruiter, 1995);  
 larva (Flint, 1960);  
 male & female genitalia (Nimmo, 1971; Ruiter, 1995);  
 photos of egg masses, first instar larvae (Wiggins, 1973);  
 photos of egg masses (Wiggins, Lin, & Chua, 1976);  
 larva, case (Wiggins, 1977);  
 wings, male & female genitalia (Schmid, 1980);  
 male genitalia (Marshall & Larson, 1982);  
 male, female genitalia & photo of adult (Houghton, 2012);  
 photo of larva & case (Ruiter, Boyle, & Zhou, 2013);  
 AB (Nimmo, 1987; Flannagan & MacDonald, 1987; Ruiter, 1995);  
 BC (Schmid & Guppy, 1952; Ross & Spencer, 1952; Nimmo, 1971; Nimmo & Scudder, 1978;  
 Flannagan & MacDonald, 1987; Ruiter, 1995);  
 CO (Ruiter, 1990; Ruiter, 1995; Ruiter, 1996; Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
 Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
 CT (Britton, 1920; Britton, 1938; Nelson, 1987; Downs & Godwin, 1987; Nelson & Downs, 1995;  
 Ruiter, 1995);  
 IL (Ross, 1944; Nimmo, 1971; Ruiter, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Ruiter, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Ross, 1941; Harris, 1835; Neves, 1979; Ruiter, 1995);  
 MB (Nimmo, 1971; Flannagan & Flannagan, 1982; Flannagan & MacDonald, 1987; Ruiter, 1995;  
 Ruiter, Boyle, & Zhou, 2013; Chatila-Amos, 2021);  
 ME (Procter, 1946; Blicke & Morse, 1966; Ruiter, 1995; Huryn & Harris, 2000);  
 MI (Leonard & Leonard, 1949; Ellis, 1962; Davis, Hudson, & Armitage, 1991; Ruiter, 1995;  
 Houghton, Brandin, & Brakel, 2011;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton & Lardner, 2020; Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Mickel & Milliron, 1939; Etnier, 1965; Nimmo, 1971; MacLean, 1995; Ruiter, 1995;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Ruiter, 1995);  
 ND (Harris, Lago, & Carlson, 1980; Ruiter, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Marshall & Larson, 1982; Flannagan & MacDonald, 1987; Ruiter, 1995);  
 NH (Morse & Blicke, 1953; Nimmo, 1971; Ruiter, 1995);  
 NS (Walker, 1852; Betten & Mosely, 1940; Nimmo, 1971; Flannagan & MacDonald, 1987;  
 Ruiter, 1995);

NT (Nimmo, 1986; Flannagan & MacDonald, 1987; Ruiter, 1995);  
 NY (Hagen, 1873; Simpson, 1903; Betten, 1934; Nimmo, 1971; McCabe, 1986; Ruiter, 1995;  
 Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (McElravy, Arsuffi, & Foote, 1977; Masteller & Flint, 1979; Huryn & Foote, 1983;  
 MacLean & MacLean, 1984; Usis & MacLean, 1986; Garono & MacLean, 1988;  
 Ruiter, 1995; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Ricker, 1932; Betten & Mosely, 1940; Nimmo, 1971; Wiggins, 1973; Wiggins, 1977;  
 Bärlocher, Mackay, & Wiggins, 1978; Wiggins, Mackay, & Smith, 1980;  
 Richardson & Mackay, 1984; Flannagan & MacDonald, 1987;  
 Williams, Tavares, & Bryant, 1987; Harper, 1989; Ruiter, 1995;  
 Cordero, Sánchez-Ramírez, & Currie, 2017);  
 PA (Flint, 1960; Swegman, Walker, & Sykora, 1981; Masteller & Flint, 1992; Ruiter, 1995);  
 QC (Robert, 1958; Corbet, Schmid, & Augustin, 1966; Nimmo, 1971;  
 Roy & Harper, 1975; Roy & Harper, 1979; Flannagan & MacDonald, 1987;  
 Harper, 1989; Ruiter, 1995);  
 SK (Ross, 1941; Nimmo, 1987; Flannagan & MacDonald, 1987; Ruiter, 1995);  
 TN (Etnier, Baxter, Fraley, & Parker, 1998);  
 UT (Denning, 1966; Ruiter, 1995);  
 VA (Parker & Voshell, 1981; Ruiter, 1995; Flint, Hoffman, & Parker, 2008);  
 VT (Wimmer, 1979; Bilger, 1986; Ruiter, 1995);  
 WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hilsenhoff, 1995;  
 Ruiter, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Hill & Tarter, 1978; Tarter & Hill, 1980; Tarter, 1990; Ruiter, 1995; Tarter & Floyd, 2016);  
 WY (Swegman & Ferrington, 1980; Ruiter & Lavigne, 1985; Ruiter, 1995);  
 YT (Nimmo & Wickstrom, 1984; Ruiter, 1995; Cordero, Sánchez-Ramírez, & Currie, 2017).  
*Limnephilus infernalis* (Banks, 1914), Anisogamus, NY;  
 larval head, midfemur, male & female genitalia (Nimmo, 1965);  
 male & female genitalia (Nimmo, 1971; Ruiter, 1995);  
 male, female genitalia, & photo of adult (Houghton, 2012);  
 photos of larva & case, head, thorax (Ruiter, Boyle, & Zhou, 2013);  
 photo of adult female (Wright, Pytel, & Houghton, 2013);  
 Canada (Schmid, 1955);  
 AB (Nimmo, 1965; Nimmo, 1971; Flannagan & MacDonald, 1987; Ruiter, 1995);  
 AK (Nimmo, 1971; Flannagan & MacDonald, 1987; Ruiter, 1995);  
 BC (Nimmo & Scudder, 1978; Ruiter, 1995);  
 MB (Nimmo, 1971; Flannagan & Flannagan, 1982; Resh, Rosenberg, & Wiens, 1983;  
 Flannagan & MacDonald, 1987; ; Ruiter, 1995;  
 Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruiter, Boyle, & Zhou, 2013;  
 Chatila-Amos, 2021);  
 ME (Nimmo, 1971; Bilger, 1986; ; Ruiter, 1995; Huryn & Harris, 2000);  
 MI (Leonard & Leonard, 1949; Nimmo, 1971; Davis, Hudson, & Armitage, 1991;  
 Ruiter, 1995; Ruiter, 2010;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Nimmo, 1971; Ruiter, 1995; Monson, 1997;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ND (Harris, Lago, & Carlson, 1980; Ruiter, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NT (Nimmo, 1965; Nimmo, 1971; Nimmo, 1986; Flannagan & MacDonald, 1987; Ruiter, 1995;  
 Cordero, Sánchez-Ramírez, & Currie, 2017);  
 NY (Banks, 1914; Nimmo, 1971; Ruiter, 1995; Myers, Kondratieff, Mihuc, & Ruiter, 2011);

- ON (Harper, 1989; Cordero, Sánchez-Ramírez, & Currie, 2017);  
 QC (Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1975; Roy & Harper, 1979;  
 Flannagan & MacDonald, 1987; Harper, 1989; Ruiter, 1995);  
 SK (Milne, 1943; Nimmo, 1971; Flannagan & MacDonald, 1987; Ruiter, 1995);  
 VT (Wimmer, 1979; Ruiter, 1995);  
 WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hilsenhoff, 1995;  
 Ruiter, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 YT (Nimmo, 1971; Flannagan & MacDonald, 1987; Nimmo & Wickstrom, 1984; Ruiter, 1995;  
 Wiggins & Parker, 1997).
- Limnephilus janus* Ross, 1938, CO;  
 Colpotaulus minusculus Banks, 1924, CO (preoccupied in  
*Limnephilus* by Banks, 1907);  
 male & female genitalia (Nimmo, 1971; Ruiter, 1995; Houghton, 2012);  
 female genitalia (Nimmo, 1977);  
 AB (Nimmo, 1971; Ruiter, 1995);  
 BC (Nimmo & Scudder, 1978; Ruiter, 1995);  
 CO (Ross, 1938; Dodds, & Hisaw, 1925; Schmid, 1955; Nimmo, 1971;  
 Swegman & Ferrington, 1980; Herrmann, Ruiter, & Unzicker, 1986;  
 Ruiter, 1995; Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
 Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
 ID (Ruiter, 1995);  
 MB (Ruiter, 1995);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Nimmo, 1971; Ruiter, 1995;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ME (Blickle & Morse, 1966; Ruiter, 1995);  
 ND (Harris, 1978; Ruiter, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 QC (Roy & Harper, 1979; Ruiter, 1995);  
 SK (Ross & Merkley, 1952; Schmid, 1955; Nimmo, 1971; Ruiter, 1995);  
 WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Ruiter, 1995;  
 Hilsenhoff, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WY (Ruiter, 1995);  
 YT (Ruiter, 1995; Wiggins & Parker, 1997).
- Limnephilus kalama* Denning, 1968, WA;  
 male & female genitalia (Ruiter, 1995);  
 OR (Denning, 1968; Anderson, 1976; Ruiter, 1995);  
 WA (Denning, 1968; Ruiter, 1995; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005;  
 Blinn & Ruiter, 2013).
- Limnephilus kennicotti* Banks, 1920, NT;  
*Limnephilus moselyi* Kimmins & Denning, 1951; Greenland (Ross & Merkley, 1952);  
 male & female genitalia (Nimmo, 1971; Ruiter, 1995);  
 male genitalia (Marshall & Larson, 1982);  
 northern North America, Greenland (Wiggins, 1961);  
 OR, BC to Greenland (Anderson, 1976);  
 AB (Nimmo, 1971; Ruiter, 1995);  
 BC (Nimmo, 1971; Anderson, 1976; Nimmo & Scudder, 1978; Ruiter, 1995);  
 MB (Nimmo, 1971; Flannagan & Flannagan, 1982; Ruiter, 1995;  
 Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruiter, Boyle, & Zhou, 2013);  
 NF (Wiggins, 1961; Nimmo, 1971; Marshall & Larson, 1982; Ruiter, 1995);  
 NT (Banks, 1920; Nimmo, 1986; Ruiter, 1995);

- ON (Nimmo, 1971; Ruiter, 1995);  
 OR (Anderson, 1976; Ruiter, 1995);  
 SK (Milne, 1943; Nimmo, 1971; Ruiter, 1995);  
 YT (Nimmo & Wickstrom, 1984; Ruiter, 1995; Wiggins & Parker, 1997;  
 Kendrick & Huryn, 2014);  
 Greenland (Vibe, 1950; Wiggins, 1961; Nimmo, 1971;  
 Anderson, 1976; Wiggins & Parker, 1997).
- Limnephilus labus* Ross, 1941, CO;  
 male & female genitalia (Nimmo, 1971; Ruiter, 1995);  
 AB (Ross, 1941; Nimmo, 1971; Ruiter, 1995);  
 BC (Nimmo & Scudder, 1978; Ruiter, 1995);  
 CO (Ross, 1941; Nimmo, 1971; Herrmann, Ruiter, & Unzicker, 1986;  
 Ruiter, 1995; Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
 Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
 ID (Nimmo, 1971; Ruiter, 1995);  
 ND (Harris, Lago, & Carlson, 1980; Ruiter, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 SK (Ross & Merkley, 1952; Nimmo, 1971; Ruiter, 1995).
- Limnephilus lithus* (Milne, 1935), Anabolina, CO;  
 male genitalia (Ross & Merkley, 1952);  
 male & female genitalia (Ruiter, 1995);  
 male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
 AZ (Milne, 1935; Schmid, 1955; Ruiter, 1995; Houghton, 2001; Blinn & Ruiter, 2006;  
 Blinn & Ruiter, 2009a; Blinn & Ruiter, 2009b);  
 CO (Milne, 1935; Herrmann, Ruiter, & Unzicker, 1986; Ruiter, 1995;  
 Zuellig, Heinold, Kondratieff, & Ruiter, 2012; Oláh, Anderson, Beshkov, et al, 2019);  
 NM (Milne, 1935; Ruiter, 1995);  
 SD (Ruiter, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 TX (Milne, 1935; Schmid, 1955; Edwards, 1973; Ruiter, 1995; Moulton & Stewart, 1997);  
 WY (Ruiter & Lavigne, 1985; Ruiter, 1995).
- Limnephilus lopho* Ross, 1949, OR;  
 male & female genitalia (Nimmo, 1971; Ruiter, 1995);  
 AB (Nimmo, 1971; Ruiter, 1995);  
 BC (Schmid, 1951; Schmid, 1955; Schmid, & Guppy, 1952; Ross & Spencer, 1952; Hardy, 1955;  
 Nimmo, 1971; Ruiter, 1995);  
 OR (Ross, 1949; Schmid, 1955; Nimmo, 1971; Anderson, 1976; Ruiter, 1995);  
 UT (Ruiter, 1995);  
 WA (Ruiter, 1995; Blinn & Ruiter, 2013).
- Limnephilus major* (Martynov, 1909), Colpotaulius, Armenia;  
*Limnephilus alvatus* Denning, 1968, AB (synonym of *L. tarsalis* according to Ruiter (1995));  
*Limnephilus tarsalis* (Banks, 1920), CO (Grigorenko, 2002);  
 male genitalia (Ross, 1938);  
 male & female genitalia (Nimmo, 1977, as *alvatus*; Ruiter, 1995; Houghton, 2012);  
 photos of larva & case, head (Ruiter, Boyle, & Zhou, 2013);  
 male paramere (Oláh, Anderson, Beshkov, et al, 2019, as *L. tarsalis*);  
 AB (Denning, 1968; Nimmo, 1977; Ruiter, 1995);  
 AK (Ruiter, 1995);  
 BC (Ross & Spencer, 1952; Nimmo & Scudder, 1983; Ruiter, 1995);  
 CO (Banks, 1920; Dodds & Hisaw, 1925; Schmid, 1955;  
 Herrmann, Ruiter, & Unzicker, 1986; Ruiter, 1995; Ruiter, 1996;  
 Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
 Wissinger, Perchik, & Klemmer, 2018, as *L. tarsalis*;  
 Oláh, Anderson, Beshkov, et al, 2019, as *L. tarsalis*;  
 Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022, as *L. tarsalis*);

MB (Ruiter, Boyle, & Zhou, 2013; Chatila-Amos, 2021);  
 MN (Etnier, 1965; Ruiter, 1995; Houghton, Holzenthal, Monson, & MacLean, 2001;  
     Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NT (Ruiter, 1995);  
 QC (Williams & Williams, 1976);  
 WY (Ruiter & Lavigne, 1985; Ruiter, 1995);  
 YT (Ruiter, 1995; Wiggins & Parker, 1997);  
 Greenland (Vibe, 1950).  
*Limnephilus moestus* Banks, 1908, NF;  
*Limnephilus gioia* Denning, 1948, WY (Ruiter, 1995);  
*Limnephilus valhalla* Nimmo, 1971, AB (Ruiter, 1995);  
 male & female genitalia (Nimmo, 1971; Ruiter, 1995; Houghton, 2012);  
 male genitalia (Marshall & Larson, 1982);  
 northern & montane North America (Wiggins, 1961);  
 AB (Nimmo, 1971; Ruiter, 1995; Lonsdale, 2020);  
 AZ (Ruiter, 1996; Houghton, 2001; Blinn & Ruiter, 2006);  
 BC (Nimmo, 1971; Nimmo & Scudder, 1978; Ruiter, 1995);  
 CO (Ross, 1944; Nimmo, 1971; Herrmann, Ruiter, & Unzicker, 1986; Ruiter, 1995;  
     Zuellig, Kondratieff, Ruiter, & Thorp, 2006;  
     Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
     Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
 CT (Britton, 1938; Nelson, 1987; Nelson & Downs, 1995; Ruiter, 1995);  
 DE (Lake, 1984; Ruiter, 1995);  
 IL (Ross, 1944; Nimmo, 1971; Ruiter, 1995;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Neves, 1979; Ruiter, 1995);  
 MB (Flannagan & Flannagan, 1982; Ruiter, 1995;  
     Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruiter, Boyle, & Zhou, 2013);  
 ME (Johnson, 1927; Procter, 1946; Blickle & Morse, 1966;  
     Nimmo, 1971; Ruiter, 1995; Hury & Harris, 2000);  
 MI (Leonard & Leonard, 1949; Ellis, 1962; Nimmo, 1971; Ruiter, 1995;  
     Houghton, Brandin, & Brakel, 2011; Wright, Pytel, & Houghton, 2013;  
     DeWalt & South, 2015; Houghton, 2016;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton, 2022;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Nimmo, 1971; MacLean, 1995; Ruiter, 1995; Monson, 1997;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Ruiter, 1995);  
 NB (Nimmo, 1971; Ruiter, 1995);  
 NC (Hoffman & Parker, 1997; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 ND (Harris, Lago, & Carlson, 1980; Ruiter, 1995;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Banks, 1908; Wiggins, 1961; Nimmo, 1971; Marshall & Larson, 1982; Ruiter, 1995);  
 NH (Morse & Blickle, 1953; Nimmo, 1971; Ruiter, 1995);  
 NM (Ruiter, 1999; Vieira, Kondratieff, Ruiter, & Durfee, 2009);  
 NS (Banks, 1930; Nimmo, 1971; Ruiter, 1995);  
 NT (Cordero, Sánchez-Ramírez, & Currie, 2017);  
 NV (Ruiter, Baumann, & Flint, 2014);  
 NY (Sibley, 1926; Nimmo, 1971; Ruiter, 1995; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Masteller & Flint, 1979; MacLean & MacLean, 1980; Hury & Foote, 1983;  
     MacLean & MacLean, 1984; Garono & MacLean, 1988; Usis & Foote, 1989;  
     Ruiter, 1995; Armitage et al., 2011);

- Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Ross, 1944; Nimmo, 1971; Williams & Williams, 1987;  
 Harper, 1989; Blades & Marshall, 1994; Ruiter, 1995);  
 PA (Nimmo, 1971; Masteller & Flint, 1979; Masteller & Flint, 1980;  
 Swegman, Walker, & Sykora, 1981; Masteller & Flint, 1992; Ruiter, 1995);  
 QC (Ross, 1944; Robert, 1958; Corbet, Schmid, & Augustin, 1966; Nimmo, 1971;  
 Roy & Harper, 1975; Roy & Harper, 1979; Williams & Williams, 1979;  
 Harper, 1989; Ruiter, 1995);  
 UT (Nimmo, 1971; Baumann & Unzicker, 1981; Ruiter, 1995);  
 VA (Flint, Hoffman, & Parker, 2008);  
 VT (Wimmer, 1979; Ruiter, 1995);  
 WA (Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013);  
 WI (Ross, 1944; Nimmo, 1971; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973;  
 Hilsenhoff, 1975; Hilsenhoff, 1995; Ruiter, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Hill & Tarter, 1978; Tarter & Hill, 1979; Tarter & Hill, 1980;  
 Stout & Stout, 1989; Tarter, 1990; Ruiter, 1995; Tarter & Floyd, 2016);  
 WY (Denning, 1948; Schmid, 1955; Nimmo, 1971; Ruiter & Lavigne, 1985; Ruiter, 1995;  
 Ruiter, 1996);  
 Greenland (Wiggins, 1961; Nimmo, 1971; Ruiter, 1995; Wiggins & Parker, 1997).
- Limnephilus morrisoni* Banks, 1920, NV;  
 male & female genitalia (Ruiter, 1995);  
 BC (Nimmo & Scudder, 1978; Ruiter, 1995);  
 CA (Ross & Merkley, 1952; Denning, 1956; Anderson, 1976; Erman, 1989;  
 Erman & Erman, 1990; Ruiter, 1995; Resh & Mendez, 2022);  
 NV (Banks, 1920; Ross & Merkley, 1952; Anderson, 1976; Ruiter, 1995;  
 Ruiter, Baumann, & Flint, 2014);  
 OR (Ross & Merkley, 1952; Anderson, 1976; Ruiter, 1995);  
 WA (Schmid, 1955; Ruiter, 1995; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005).
- Limnephilus nigriceps* (Zetterstedt, 1840), Phryganea, Lapland;  
*Limnephilus forcipatus* Banks, 1924, AB (Ross & Merkley, 1952);  
 larva, case (Lepneva, 1966/71);  
 wings, male & female genitalia (Nimmo, 1971);  
 male & female genitalia (Tobias & Tobias, 1981; Ruiter, 1995);  
 photos of larva & case, head (Ruiter, Boyle, & Zhou, 2013);  
 North America (Ross & Merkley, 1952);  
 AB (Banks, 1924; Ross, 1944; Nimmo, 1971; Ruiter, 1995);  
 AK (Nimmo, 1971; Ruiter, 1995; Kendrick & Huryn, 2014);  
 MB (Nimmo, 1971; Flannagan & Flannagan, 1982; Ruiter, 1995;  
 Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruiter, Boyle, & Zhou, 2013;  
 Chatila-Amos, 2021);  
 NT (Nimmo, 1986; Ruiter, 1995);  
 SK (Milne, 1943; Nimmo, 1971; Ruiter, 1995);  
 YT (Nimmo & Wickstrom, 1984; Ruiter, 1995; Wiggins & Parker, 1997);  
 Lapland (Zetterstedt, 1840);  
 Palearctic region (Lepneva, 1966/71);  
 Europe (Tobias & Tobias, 1981).
- Limnephilus nimmoi* Roy & Harper, 1975, QC;  
 male & female genitalia (Nimmo, 1977; Ruiter, 1995);  
 AB (Nimmo, 1977; Flannagan & MacDonald, 1987; Ruiter, 1995);  
 MB (Flannagan & MacDonald, 1987; Ruiter, 1995);  
 ME (Huryn & Harris, 2000);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979;  
 Flannagan & MacDonald, 1987; Harper, 1989; Ruiter, 1995).
- Limnephilus nogus* Ross, 1944, OR;

- male & female genitalia (Nimmo, 1971; Ruiter, 1995);  
 AK (Ellis, 1978; Vineyard, 1982; Ruiter, 1995);  
 BC (Ross, 1944; Schmid & Guppy, 1952; Ross & Spencer, 1952;  
 Nimmo, 1971; Nimmo & Scudder, 1978; Ruiter, 1995);  
 CA (Denning, 1956; Nimmo, 1971; Ruiter, 1995; Resh & Mendez, 2022);  
 ID (Nimmo, 1971; Ruiter, 1995);  
 OR (Ross, 1944; Nimmo, 1971; Anderson, 1976; Anderson, Cooper, & Denning, 1982;  
 Anderson, Wisseman, & Courtney, 1984; Anderson & Hansen, 1987; Ruiter, 1995;  
 Anderson, 1997);  
 WA (Ross, 1944; Nimmo, 1971; Anderson & Wisseman, 1987; Ruiter, 1995;  
 Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013).
- Limnephilus occidentalis* Banks, 1908, WA;  
*Limnephilus whiteheadi* Nimmo, 1991, BC (Ruiter, 1995);  
 male & female genitalia (Ruiter, 1995);  
 BC (Banks, 1908; Ross, 1938; Betten, 1934; Schmid & Guppy, 1952;  
 Ross & Spencer, 1952; Nimmo & Scudder, 1978; Nimmo, 1991; Ruiter, 1995);  
 CA (Denning, 1956; Ruiter, 1995; Resh & Mendez, 2022);  
 ID (Ruiter, 1995);  
 OR (Ross & Merkley, 1952; Anderson, 1976; Anderson, Cooper, & Denning, 1982;  
 Anderson & Hansen, 1987; Ruiter, 1995; Anderson, 1997);  
 WA (Banks, 1908; Anderson & Wisseman, 1987; Ruiter, 1995;  
 Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005).
- Limnephilus ornatus* Banks, 1897, NH;  
 male & female genitalia (Ross, 1944; Nimmo, 1971; Ruiter, 1995; Houghton, 2012);  
 adult head, body, wings, thoracic pleura & legs, male genitalia  
 (Marshall & Larson, 1982);  
 Canada (Banks, 1897);  
 northern & central North America (Wiggins, 1961);  
 AB (Nimmo, 1971; Flannagan & MacDonald, 1987; Ruiter, 1995);  
 AK (Banks, 1900; Nimmo, 1971; Flannagan & MacDonald, 1987; Ruiter, 1995);  
 CT (Britton, 1938; Nelson & Downs, 1995);  
 DE (Lake, 1984; Ruiter, 1995);  
 IL (Betten, 1934; Nimmo, 1971; Ruiter, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Ruiter, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Betten, 1934; Ross, 1944; Nimmo, 1971; Ruiter, 1995);  
 MB (Neave, 1934; Nimmo, 1971; Flannagan & Flannagan, 1982;  
 Flannagan & MacDonald, 1987; Ruiter, 1995; Ruiter, Boyle, & Zhou, 2013);  
 ME (Betten, 1934; Procter, 1946; Blickle & Morse, 1966; Nimmo, 1971; Ruiter, 1995;  
 Huryn & Harris, 2000);  
 MI (Leonard & Leonard, 1949; Nimmo, 1971; Ruiter, 1995; Houghton, Brandin, & Brakel, 2011;  
 Houghton, 2016;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Nimmo, 1971; MacLean, 1995; Ruiter, 1995; Ruiter, 1996; Monson, 1997;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Newell, 1970; Newell & Potter, 1973; Roemhild, 1982; Ruiter, 1995);  
 ND (Harris, Lago, & Carlson, 1980; Ruiter, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Banks, 1908; Wiggins, 1961; Nimmo, 1971; Marshall & Larson, 1982;  
 Flannagan & MacDonald, 1987; Ruiter, 1995);  
 NH (Banks, 1897, or QC; Morse & Blickle, 1953; Nimmo, 1971; Ruiter, 1995);

- NS (Banks, 1930; Nimmo, 1971; Ruiter, 1995);  
 NT (Nimmo, 1971; Ruiter, 1995);  
 NY (Betten, 1901; Sibley, 1926; Nimmo, 1971; McCabe, 1986; Ruiter, 1995;  
 Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (MacLean & MacLean, 1980; Huryn & Foote, 1983; MacLean & MacLean, 1984;  
 Garono & MacLean, 1988; Usis & Foote, 1989; Ruiter, 1995; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Ross, 1944; Nimmo, 1971; Flannagan & MacDonald, 1987;  
 Harper, 1989; Blades & Marshall, 1994; Ruiter, 1995);  
 PA (Masteller & Flint, 1979; Masteller & Flint, 1992; Ruiter, 1995);  
 PE (Majka, 2010);  
 QC (Banks, 1897, or NH; Robert, 1958; Corbet, Schmid, & Augustin, 1966; Nimmo, 1971;  
 Roy & Harper, 1975; Roy & Harper, 1979; Flannagan & MacDonald, 1987;  
 Harper, 1989; Ruiter, 1995);  
 RI (Hunt, 2017);  
 SK (Nimmo, 1971; Flannagan & MacDonald, 1987; Ruiter, 1995);  
 VT (Wimmer, 1979; Ruiter, 1995);  
 WA (Blinn & Ruiter, 2013);  
 WI (Nimmo, 1971; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
 Hilsenhoff, 1995; Ruiter, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Tarter & Hill, 1980; Tarter, 1990; Ruiter, 1995; Tarter & Floyd, 2016);  
 Greenland (Wiggins, 1961; Nimmo, 1971; Wiggins & Parker, 1997);  
 Japan (Wiggins, 1961).
- Limnephilus pallens* (Banks, 1920), Alaska;  
 synonymized with *Limnephilus samoedus* (McLachlan, 1880) by Grigorenko (2002);  
 reinstated by Oláh, Anderson, Beshkov, et al, (2019);  
 male genitalia (Flint, 1966; Oláh, Anderson, Beshkov, et al, 2019);  
 male & female genitalia (Nimmo, 1991; Ruiter, 1995);  
 AK (Banks, 1920; Ross, 1944; Schmid, 1955; Ruiter, 1995;  
 Oláh, Anderson, Beshkov, et al, 2019);  
 BC (Nimmo & Scudder, 1983; Ruiter, 1995);  
 MI (Ruiter, 1995;  
 ;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NT (Schmid, 1955; Lehmkuhl & Kerst, 1979; Nimmo, 1986; Ruiter, 1995;  
 Oláh, Anderson, Beshkov, et al, 2019);  
 YT (Nimmo & Wickstrom, 1984; Nimmo, 1991; Ruiter, 1995; Wiggins & Parker, 1997;  
 Kendrick & Huryn, 2014).
- Limnephilus partitus* Walker, 1852, ON;  
*Limnephilus adustus* Banks, 1920, AB (Ross, 1944);  
 wings, male & female genitalia (Nimmo, 1971);  
 male & female genitalia (Ruiter, 1995; Houghton, 2012);  
 photos of larva & case, head (Ruiter, Boyle, & Zhou, 2013);  
 Canada (Schmid, 1955);  
 AB (Banks, 1920; Nimmo, 1971; Flannagan & MacDonald, 1987; Ruiter, 1995);  
 AK (Vineyard, 1982; Ruiter, 1995);  
 BC (Banks, 1943; Nimmo, 1971; Nimmo & Scudder, 1978; Flannagan & MacDonald, 1987;  
 Ruiter, 1995);  
 MB (Nimmo, 1971; Flannagan & Flannagan, 1982; Ruiter, 1995;  
 Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruiter, Boyle, & Zhou, 2013;  
 Chatila-Amos, 2021);  
 ME (Banks, 1943; Blickle & Morse, 1966; Nimmo, 1971; Flannagan & MacDonald, 1987;  
 Ruiter, 1995);  
 MN (Etnier, 1965; Nimmo, 1971; Ruiter, 1995);



- Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NF (Banks, 1943; Nimmo, 1971; Flannagan & MacDonald, 1987; Ruiter, 1995);  
NT (Banks, 1943; Nimmo, 1971; Nimmo, 1986; Flannagan & MacDonald, 1987; Ruiter, 1995);  
NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
ON (Walker, 1852; Harper, 1989; Ruiter, 1995);  
QC (Nimmo, 1971; Roy & Harper, 1979; Flannagan & MacDonald, 1987; Harper, 1989;  
Ruiter, 1995);  
YT (Nimmo & Wickstrom, 1984; Ruiter, 1995; Wiggins & Parker, 1997).
- Limnephilus parvulus* (Banks, 1905), *Stenophylax* ?, NH;  
*Apolopsyche pallida* Banks, 1924, MB (Milne, 1935);  
*Limnephilus roberti* Banks, 1930, MB (Ross, 1938);  
male & female genitalia (Nimmo, 1971; Ruiter, 1995; Houghton, 2012);  
AB (Nimmo, 1971; Ruiter, 1995);  
MB (Banks, 1924; Ross & Merkley, 1952; Schmid, 1955; Nimmo, 1971;  
Flannagan & Flannagan, 1982; Ruiter, 1995; Ruiter, Boyle, & Zhou, 2013);  
ME (Blickle & Morse, 1966; Ruiter, 1995; Huryn & Harris, 2000);  
MI (DeWalt & South, 2015);  
Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MN (Etnier, 1965; Nimmo, 1971; Ruiter, 1995; Monson, 1997);  
Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NF (Ruiter, 1995);  
NH (Banks, 1905; Morse & Blickle, 1953; Nimmo, 1971; Ruiter, 1995);  
NT (Nimmo, 1971; Nimmo, 1986; Ruiter, 1995);  
NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
ON (Ruiter, 1995);  
QC (Ross & Merkley, 1952; Schmid, 1955; Nimmo, 1971; Roy & Harper, 1979; Harper, 1989;  
Ruiter, 1995);  
WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hilsenhoff, 1995;  
Ruiter, 1995);  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
YT (Nimmo & Wickstrom, 1984; Ruiter, 1995; Wiggins & Parker, 1997).
- Limnephilus peltus* Denning, 1962, CA;  
male & female genitalia (Ruiter, 1995);  
CA (Denning, 1962; Erman, 1987; Erman & Erman, 1990; Ruiter, 1995; Givens, 2014;  
Resh & Mendez, 2022).
- Limnephilus perjurus* Hagen, 1861, AK;  
unidentifiable species (Ruiter, 1995);  
AK (Hagen, 1861; Banks, 1892; Banks, 1900; Ulmer, 1932; Ross, 1944; Schmid, 1955;  
Ruiter, 1995).
- Limnephilus perpusillus* Walker, 1852, ON;  
*Limnephilus merinthus* Ross, 1938, MB (Ross, 1941);  
*Colpotauius rhaeus* Milne, 1935, ON ((Ross, 1941);  
male & female genitalia (Nimmo, 1971; Ruiter, 1995; Houghton, 2012);  
adult protarsus, male genitalia (Marshall & Larson, 1982);  
photos of larva & case, head (Ruiter, Boyle, & Zhou, 2013);  
CO to ON (Ross & Merkley, 1952);  
AB (Milne, 1935; Nimmo, 1971; Ruiter, 1995);  
BC (Nimmo, 1971; Nimmo & Scudder, 1978; Nimmo & Scudder, 1983; Ruiter, 1995);  
CO (Nimmo, 1971; Herrmann, Ruiter, & Unzicker, 1986; Ruiter, 1995;  
Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
MB (Milne, 1935; Ross, 1938; Nimmo, 1971; Flannagan & Flannagan, 1982; Ruiter, 1995);

Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruiter, Boyle, & Zhou, 2013; Chatila-Amos, 2021);

ME (Huryñ & Harris, 2000);

MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018; Houghton, 2020; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MN (Etnier, 1965; Nimmo, 1971; Ruiter, 1995; Ruiter, 1996; Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

NB (Ruiter, 1995);

ND (Harris, Lago, & Carlson, 1980; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

NF (Banks, 1908; Nimmo, 1971; Marshall & Larson, 1982; Ruiter, 1995);

NT (Nimmo, 1986; Ruiter, 1995);

NY (Ruiter, 1995);

OH (Usis & Foote, 1989; Ruiter, 1995; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

ON (Walker, 1852; Milne, 1935; Nimmo, 1971; Ruiter, 1995);

QC (Roy & Harper, 1979; Ruiter, 1995);

SD (Nimmo, 1971; Ruiter, 1995; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

SK (Milne, 1935; Nimmo, 1971; Ruiter, 1995);

WI (Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hilsenhoff, 1995; Ruiter, 1995; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

YT (Ruiter, 1995; Wiggins & Parker, 1997).

*Limnephilus picturatus* McLachlan, 1875, Russia, Sweden, Finland;

*Limnephilus kincaidi* Banks, 1900, AK (Ross & Merkley, 1952);

*Limnephilus clausus* Banks, 1924, CO (Ross & Merkley, 1952);

male genitalia (Ross & Merkley, 1952);

male & female genitalia (Nimmo, 1971; Ruiter, 1995);

larva (Gislason, 1978);

photos of larva & case, head (Ruiter, Boyle, & Zhou, 2013);

AB (Nimmo, 1971; Flannagan & MacDonald, 1987; Ruiter, 1995);

AK (Banks, 1907; van Duzee, 1921; Nimmo, 1971; Flannagan & MacDonald, 1987; Ruiter, 1995; Kendrick & Huryñ, 2014);

BC (Nimmo & Scudder, 1978; Ruiter, 1995);

CO (Dodds & Hisaw, 1925; Banks, 1924; Ross & Merkley, 1952; Nimmo, 1971; Herrmann, Ruiter, & Unzicker, 1986; Ruiter, 1995; Zuellig, Heinold, Kondratieff, & Ruiter, 2012; Wissinger, Perchik, & Klemmer, 2018; Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022; Shepard, Wissinger, & Greig, 2022);

ID (Essig, 1926; Ruiter, 1995);

MB (Ross & Merkley, 1952; Nimmo, 1971; Flannagan & Flannagan, 1982; Flannagan & MacDonald, 1987; Ruiter, 1995; Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruiter, Boyle, & Zhou, 2013; Chatila-Amos, 2021);

MT (Roemhild, 1982; Ruiter, 1995);

NT (Nimmo, 1971; Nimmo, 1986; Lehmkuhl & Kerst, 1979; Flannagan & MacDonald, 1987; Ruiter, 1995; Pentinsaari, Blagoev, Hogg, et al, 2020; Cordero, Sánchez-Ramírez, & Currie, 2017);

ON (Brauer, 1876; Ruiter, 1995);

QC (Roy & Harper, 1979; Ruiter, 1995);

UT (Baumann & Unzicker, 1981; Ruiter, 1995);

WY (Nimmo, 1971; Swegman & Ferrington, 1980; Ruiter & Lavigne, 1985; Ruiter, 1995);

YT (Nimmo & Wickstrom, 1984; Ruiter, 1995; Wiggins & Parker, 1997);

- Kendrick & Huryn, 2014);  
Iceland (Gíslason, 1978);  
Russia, Sweden, Finland (McLachlan, 1875);  
Palearctic region.
- ? *Limnephilus plaga* Walker, 1852, NS;  
nomen dubium (Ross, 1944; Roy & Harper, 1979, Ruiter, 1995);  
synonym of *Limnephilus despectus* Walker, 1852, NS (Milne, 1935),  
not a synonym (Betten & Mosely, 1940);  
NH (Hagen, 1864; Morse & Blickle, 1953; Ruiter, 1995);  
NS (Walker, 1852; Ruiter, 1995);  
ON (Ross, 1944; Ruiter, 1995);  
QC (Roy & Harper, 1979; Ruiter, 1995).
- Limnephilus productus* Banks, 1914, UT;  
*Limnephilus utahensis* Denning 1948, UT (Ross & Merkley, 1952);  
*Limnephilus neoacula* Denning, 1965, CA (Ruiter, 1995);  
male genitalia (Denning, 1956);  
male & female genitalia (Ruiter, 1995);  
CA (Schmid, 1955; Denning, 1965; Ruiter, 1995; Resh & Mendez, 2022);  
CO (Herrmann, Ruiter, & Unzicker, 1986; Ruiter, 1995);  
Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
MT (Roemhild, 1982; Ruiter, 1995);  
NV (Ruiter, Baumann, & Flint, 2014);  
OR (Anderson, 1976; Ruiter, 1995);  
UT (Banks, 1914; Schmid, 1955; Ruiter, 1995);  
WY (Ruiter & Lavigne, 1985; Ruiter, 1995).
- Limnephilus rhea* Ruiter, 1995, ID;  
ID (Ruiter, 1995).
- Limnephilus rhombicus* Linnaeus, 1758, possibly Sweden;  
*Limnephilus combinatus* Walker, 1852, NF (McLachlan, 1875);  
*Limnephilus chilcotinensis* Nimmo, 1991, BC;  
male & female genitalia (Ross, 1944; Ruiter, 1995; Houghton, 2012);  
larva (Flint, 1960);  
larval labrum, gills (Lepneva, 1964/70);  
larva, case (Lepneva, 1966/71; Hickin, 1967);  
male & female genitalia (Nimmo, 1971);  
female genitalia (Nielsen, 1980);  
ovariole (Denis, 1981);  
wings, male & female genitalia (Tobias & Tobias, 1981);  
male genitalia (Marshall & Larson, 1982);  
larva, pupa (Hoopes & Kim, 1987);  
Holarctic, IL (Wiggins, 1961);  
AB (Nimmo, 1971; Ruiter, 1995);  
AK (Flint, 1960; Ruiter, 1995);  
BC (Nimmo, 1991; Ruiter, 1995);  
CO (Nimmo, 1971; Ruiter, 1995; Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
IA (Blinn, Ruiter, & Flint, 2009);  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
IL (Ross, 1944; Flint, 1960; Wiggins, 1961; Nimmo, 1971; Ruiter, 1995);  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
IN (Waltz & McCafferty, 1983; Ruiter, 1995);  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MA (Nimmo, 1971; Neves, 1979; Ruiter, 1995);  
MB (Nimmo, 1971; Flannagan & Flannagan, 1982; Cobb, Flannagan, & Friesen, 1984;  
Ruiter, 1995; Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010;  
Ruiter, Boyle, & Zhou, 2013);

- ME (Betten, 1934; Elkins, 1936; Ross, 1944; Procter, 1946; Flint, 1960; Nimmo, 1971; Ruiter, 1995; Blickle & Morse, 1966; Huryn & Harris, 2000);
- MI (Leonard & Leonard, 1949; Flint, 1960; Ellis, 1962; Nimmo, 1971; Ruiter, 1995; Houghton, Brandin, & Brakel, 2011; DeWalt & South, 2015; Houghton, 2016; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018; Houghton, 2022; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MN (Elkins, 1936; Flint, 1960; Etnier, 1965; Nimmo, 1971; MacLean, 1995; Ruiter, 1995; Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- ND (Harris, Lago, & Carlson, 1980; Ruiter, 1995; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- NF (Walker, 1852; Banks, 1908; Kolbe, 1912; Betten & Mosely, 1940; Flint, 1960; Wiggins, 1961; Nimmo, 1971; Ruiter, 1995);
- NJ (Smith, 1890);
- NS (Banks, 1930; Nimmo, 1971; Ruiter, 1995);
- NT (Cordero, Sánchez-Ramírez, & Currie, 2017);
- NY (Lloyd, 1921; Sibley, 1926; Betten, 1926; Ross, 1944; Flint, 1960; Nimmo, 1971; Ruiter, 1995; Myers, Kondratieff, Mihuc, & Ruiter, 2011);
- OH (Huryn & Foote, 1983; MacLean & MacLean, 1984; Garono & MacLean, 1988; Ruiter, 1995; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- ON (Walker, 1852; Nimmo, 1971; Singh, Smith, & Harrison, 1984a; Williams, Tavares, & Bryant, 1987; Harper, 1989; Ruiter, 1995);
- PA (Hoopes & Kim, 1987; Masteller & Flint, 1992; Ruiter, 1995);
- PE (Dobrin & Giberson, 2003);
- QC (Robert, 1958; Nimmo, 1971; Roy & Harper, 1975; Roy & Harper, 1979; Harper, 1989; Ruiter, 1995);
- SK (Betten, 1934; Elkins, 1936; Ross, 1944; Flint, 1960; Nimmo, 1971; Ruiter, 1995);
- VT (Bilger, 1986; Ruiter, 1995);
- WI (Vorhies, 1909; Muttkowski, 1918; Elkins, 1936; Ross, 1944; Flint, 1960; Nimmo, 1971; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Karl & Hilsenhoff, 1979; Hilsenhoff, 1995; Ruiter, 1995; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- WV (Tarter & Hill, 1980; Tarter, 1990; Ruiter, 1995; Tarter & Floyd, 2016);
- WY (Ruiter & Lavigne, 1985; Ruiter, 1995);
- YT (Nimmo, 1971; Nimmo & Wickstrom, 1984; Ruiter, 1995; Wiggins & Parker, 1997);
- Britain (Hickin, 1967);
- Greenland (Nimmo, 1971);
- Palaearctic region (Lepneva, 1966/71; Malicky, 1990);
- Spain (Wiggins, 1961);
- Turkestan (Wiggins, 1961);
- Europe (Tobias & Tobias, 1981; Malicky, 1990).
- Limnophilus rohweri* Banks, 1908, CO;  
male & female genitalia (Ruiter, 1995);  
CO (Banks, 1908; Schmid, 1955; Herrmann, Ruiter, & Unzicker, 1986; Ruiter, 1995; Ruiter, 1996; Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
NM (Ruiter, 1995; Vieira, Kondratieff, Ruiter, & Durfee, 2009).
- Limnophilus rothi* Denning, 1966, AZ;  
male & female genitalia (Ruiter, 1995);  
AZ (Denning, 1966; Ruiter, 1995; Blinn & Ruiter, 2006);  
Mexico (Flint, 1967).
- Limnophilus sackeni* Banks, 1930, MI;  
*Limnophilus susana* Nimmo, 1971, AB (Ruiter, 1995);

- male & female genitalia (Ruiter, 1995; Houghton, 2012);  
 early-instar larva, photos of late-instar larva, case, head, thorax, legs, gill diagram  
 (Etnier, Bauer, Green, & Orfinger, 2022);  
 AB (Nimmo, 1971; Flannagan & MacDonald, 1987; Ruiter, 1995; Lonsdale, 2020);  
 MB (Flannagan & MacDonald, 1987; Ruiter, 1995);  
 MI (Banks, 1930; Davis, Hudson, & Armitage, 1991; Ruiter, 1995;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Etnier, Bauer, Green, & Orfinger, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Ruiter, 1995; Etnier, Bauer, Green, & Orfinger, 2022);  
 Canada (Schmid, 1955).
- Limnephilus samoedus* (McLachlan, 1880), Astratus, Russia;  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- Limnephilus sansoni* Banks, 1918, AB;  
 male & female genitalia (Nimmo, 1971; Ruiter, 1995);  
 photos of larva & case, head, thorax (Ruiter, Boyle, & Zhou, 2013);  
 AB (Banks, 1918; Schmid, 1955; Nimmo, 1971;  
 Flannagan & MacDonald, 1987; Ruiter, 1995);  
 AK (Nimmo, 1971; Flannagan & MacDonald, 1987; Ruiter, 1995; Kendrick & Huryn, 2014);  
 BC (Nimmo, 1971; Nimmo & Scudder, 1978; Nimmo & Scudder, 1983;  
 Flannagan & MacDonald, 1987; Ruiter, 1995);  
 CO (Dodds & Hisaw, 1925; Nimmo, 1971; Ruiter, 1999;  
 Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
 Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
 MB (Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruiter, Boyle, & Zhou, 2013;  
 Chatila-Amos, 2021);  
 NT (Nimmo, 1986; Ruiter, 1995);  
 WY (Ruiter, 1995);  
 YT (Nimmo & Wickstrom, 1984; Ruiter, 1995; Wiggins & Parker, 1997;  
 Cordero, Sánchez-Ramírez, & Currie, 2017).
- Limnephilus santanus* Ross, 1949, OR;  
 male & female genitalia (Ruiter, 1995; Wiggins & Parker, 1997);  
 AK (Ruiter, 1995);  
 BC (Nimmo & Scudder, 1983; Ruiter, 1995);  
 NT (Nimmo, 1986; Ruiter, 1995);  
 OR (Ross, 1949; Schmid, 1955; Anderson, 1976; Ruiter, 1995);  
 YT (Nimmo & Wickstrom, 1984; Ruiter, 1995; Wiggins & Parker, 1997).
- Limnephilus secludens* Banks, 1914, SK;  
 male genitalia (Ross, 1938);  
 male & female genitalia (Nimmo, 1971; Ruiter, 1995; Houghton, 2012);  
 male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
 AB (Nimmo, 1971; Ruiter, 1995);  
 AK (Ruiter, 1995);  
 BC (Banks, 1914; Gibson, 1915; Schmid & Guppy, 1952; Ross & Spencer, 1952; Nimmo, 1971;  
 Nimmo & Scudder, 1978; Ruiter, 1995);  
 CA (Denning, 1956; Nimmo, 1971; Ruiter, 1995; Resh & Mendez, 2022);  
 CO (Nimmo, 1971; Swegman & Ferrington, 1980; Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 Herrmann, Ruiter, & Unzicker, 1986; Ruiter, 1995; Ruiter, 1996;  
 Wissinger, Perchik, & Klemmer, 2018;  
 Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
 ID (Nimmo, 1971; Ruiter, 1995);  
 MB (Nimmo, 1971; Flannagan & Flannagan, 1982; Ruiter, 1995);

Oláh, Anderson, Beshkov, et al, 2019);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Nimmo, 1971; Ruiter, 1995;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton & Holzenthal, 2010;  
 Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Roemhild, 1982; Ruiter, 1995);  
 ND (Harris, Lago, & Carlson, 1980; Ruiter, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NM (Nimmo, 1971; Ruiter, 1995);  
 NT (Nimmo, 1971; Nimmo, 1986; Ruiter, 1995);  
 NV (Ruiter, Baumann, & Flint, 2014);  
 OR (Nimmo, 1971; Anderson, 1976; Ruiter, 1995);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979; Ruiter, 1995);  
 SD (Nimmo, 1971; Ruiter, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 SK (Banks, 1914; Ruiter, 1995; Oláh, Anderson, Beshkov, et al, 2019);  
 UT (Ross & Merkley, 1952; Baumann & Unzicker, 1981; Ruiter, 1995);  
 WY (Nimmo, 1971; Ruiter & Lavigne, 1985; Ruiter, 1995; Ruiter, 1996;  
 Oláh, Anderson, Beshkov, et al, 2019);  
 YT (Nimmo & Wickstrom, 1984; Ruiter, 1995; Wiggins & Parker, 1997).  
*Limnephilus sericeus* (Say, 1824), Phryganea, NT;  
*Anabolia decepta* Banks, 1899, WA (Flint 1966);  
*Limnephilus despectus* Walker, 1852, NS (Schmid, 1955);  
*Limnephilus eminens* Betten, 1934, NY (Milne, 1935, and  
 Betten & Mosely 1940; as synonym of *L. despectus*;  
 Ross, 1944);  
*Limnephilus multifarius* Walker, 1852, ON (Milne, 1935, and  
 Betten & Mosely, 1940, as synonym of *L. despectus*;  
 Ross, 1944);  
*Limnephilus perforatus* Walker, 1852, in part, ON (Betten & Mosely,  
 1940, as synonym of *L. despectus*; Ross, 1944);  
 male & female genitalia (Ross, 1944; Nimmo, 1971; Ruiter, 1995; Houghton, 2012);  
 larva (Flint, 1960);  
 pupal abdominal appendages, case (Lepneva, 1966/71);  
 wings, male & female genitalia (Tobias & Tobias, 1981);  
 male genitalia (Marshall & Larson, 1982);  
 photos of larva & case, head (Ruiter, Boyle, & Zhou, 2013);  
 AK to OR to QC to New England (Nimmo, 1971);  
 AB (Nimmo, 1971; Ruiter, 1995);  
 AK (Ross, 1944; Nimmo, 1971; Vineyard, 1982; Ruiter, 1995);  
 BC (Ross & Spencer, 1952; Schmid & Guppy, 1952; Nimmo, 1971; Nimmo & Scudder, 1978;  
 Ruiter, 1995);  
 CO (Ruiter, 1995);  
 CT (Britton, 1938; Nelson, 1987; Ruiter, 1995);  
 ID (Nimmo, 1971; Ruiter, 1995);  
 MA (Harris, 1835; Nimmo, 1971; Neves, 1979; Ruiter, 1995);  
 MB (Flannagan & Flannagan, 1982; Ruiter, 1995;  
 Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruiter, Boyle, & Zhou, 2013);  
 ME (Procter, 1946; Flint, 1960; Blickle & Morse, 1966; Nimmo, 1971; Ruiter, 1995;  
 Hury & Harris, 2000);  
 MI (Leonard & Leonard, 1949; Ellis, 1962; Nimmo, 1971; Ruiter, 1995;  
 Houghton, Brandin, & Brakel, 2011; Houghton, 2016);

Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Ross, 1944; Etnier, 1965; Nimmo, 1971; MacLean, 1995; Ruiter, 1995; Monson, 1997;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Banks, 1908; Marshall & Larson, 1982; Ruiter, 1995);  
 NH (Morse & Blickle, 1953; Nimmo, 1971; Ruiter, 1995);  
 NS (Walker, 1852; Ruiter, 1995);  
 NT (Say, 1824; Nimmo, 1971; Nimmo, 1986; Ruiter, 1995);  
 NY (Betten, 1901; Betten, 1934; Ross, 1944; Nimmo, 1971; McCabe, 1986; Ruiter, 1995;  
 Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Huryn & Foote, 1983; Ruiter, 1995; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Walker, 1852; McLachlan, 1875; Ross, 1944; Nimmo, 1971; Harper, 1989;  
 Blades & Marshall, 1994; Ruiter, 1995);  
 OR (Nimmo, 1971; Anderson, 1976; Ruiter, 1995);  
 PA (Ross, 1944; Swegman, Walker, & Sykora, 1981; Masteller & Flint, 1992; Ruiter, 1995);  
 QC (Betten 1934; Ross, 1944; Robert, 1958; Nimmo, 1971; Roy & Harper, 1975;  
 Roy & Harper, 1979; Harper, 1989; Ruiter, 1995);  
 VT (Wimmer, 1979; Ruiter, 1995);  
 WA (Banks, 1899; Ross, 1941; Schmid, 1955; Flint, 1966; Nimmo, 1971; Ruiter, 1995;  
 Blinn & Ruiter, 2013);  
 WI (Nimmo, 1971; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
 Hilsenhoff, 1995; Ruiter, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Ruiter, 1995; Tarter & Floyd, 2016);  
 WY (Ruiter & Lavigne, 1985; Ruiter, 1995);  
 YT (Nimmo & Wickstrom, 1984; Ruiter, 1995; Wiggins & Parker, 1997);  
 Europe (Tobias & Tobias, 1981; Malicky, 1990);  
 Palearctic region, Japan (Lepneva, 1966/71; Malicky, 1990).  
*Limnephilus sierrata* Denning, 1968, CA;  
 male genitalia (Ruiter, 1995);  
 BC (Ruiter, 1995);  
 CA (Denning, 1968; Ruiter, 1995; Resh & Mendez, 2022).  
*Limnephilus sitchensis* Kolenati, 1859, AK;  
*Limnephilus pacificus* Banks, 1899; WA (Anderson, 1976);  
 male & female genitalia (Ruiter, 1995);  
 Rocky Mountains [AK to OR] (Schmid, 1955);  
 AK (Kolenati, 1859; Banks, 1892; Banks, 1900; Ross, 1944;  
 Ross & Merkle, 1952; Ellis, 1978; Vineyard, 1982; Ruiter, 1995);  
 BC (Ross & Spencer, 1952; Schmid & Guppy, 1952;  
 Nimmo & Scudder, 1978; Ruiter, 1995);  
 CA (Resh & Mendez, 2022);  
 ID (Ruiter, 1995);  
 OR (Banks, 1899; Ulmer, 1907; Anderson, 1976;  
 Anderson, Cooper, & Denning, 1982; Anderson & Hansen, 1987;  
 Ruiter, 1995; Anderson, 1997);  
 WA (Banks, 1899; Ulmer, 1907; Ross, 1941;  
 Anderson & Wisseman, 1987; Ruiter, 1995; Newell, Ruiter, & Strenge, 2001;  
 Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013);  
 WY (Ruiter, 1995).  
*Limnephilus spinatus* Banks, 1914, UT;  
 male genitalia (Ross, 1938);  
 male & female genitalia (Nimmo, 1971; Ruiter, 1995);

- AB to CA to CO (Nimmo, 1971);  
 AB (Nimmo, 1971; Ruiter, 1995);  
 AZ (Schmid, 1955; Ruiter, 1995; Houghton, 2001; Blinn & Ruiter, 2006);  
 BC (Nimmo & Scudder, 1978; Ruiter, 1995);  
 CA (Ross & Merkley, 1952; Denning, 1956; Nimmo, 1971; Ruiter, 1995; Givens, 2014;  
     Resh & Mendez, 2022);  
 CO (Ross & Merkley, 1952; Nimmo, 1971; Herrmann, Ruiter, & Unzicker, 1986; Ruiter, 1995;  
     Ruiter, 1996; Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
     Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
 ID (Nimmo, 1971; Newell & Minshall, 1977; Ruiter, 1995);  
 MT (Nimmo, 1971; Roemhild, 1982; Ruiter, 1995);  
 NV (Ruiter, 1995; Ruiter, Baumann, & Flint, 2014);  
 OR (Ross & Merkley, 1952; Nimmo, 1971; Anderson, 1976; Ruiter, 1995);  
 UT (Banks, 1914; Nimmo, 1971; Ruiter, 1995);  
 WA (Schmid, 1955; Ruiter, 1995; Newell, Ruiter, & Strenge, 2001;  
     Zack, Ruiter, Strenge, & Landolt, 2006; Blinn & Ruiter, 2013);  
 WY (Nimmo, 1971; Ruiter & Lavigne, 1985; Ruiter, 1995).
- Limnephilus stigma* Curtis, 1834, Britain;  
 larval case (Lepneva, 1964/70);  
 larva, case (Lepneva, 1966/71);  
 male & female genitalia (Tobias & Tobias, 1981; Ruiter, 1995);  
 AK (Flint, 1964; Ruiter, 1995);  
 YT (Nimmo & Wickstrom, 1984; Ruiter, 1995; Wiggins & Parker, 1997);  
 Britain (Curtis, 1834);  
 Europe (Tobias & Tobias, 1981);  
 Palearctic Region (Lepneva, 1966/71).
- Limnephilus sublunatus* Provancher, 1877, Canada;  
*Limnophilus americanus* Banks, 1900, ID (Betten, 1934);  
*Limnephilus macgillivrayi* Banks, 1908, NY (Milne, 1936);  
 male genitalia (Ross, 1938; Marshall & Larson, 1982);  
 wings, male & female genitalia (Nimmo, 1971);  
 male & female genitalia (Ruiter, 1995; Houghton, 2012);  
 Canada (Provancher, 1877; Schmid, 1955);  
 northeastern North America (Wiggins, 1961);  
 AB (Nimmo, 1971; Flannagan & MacDonald, 1987; Ruiter, 1995);  
 BC (Nimmo, 1971; Nimmo & Scudder, 1978; Nimmo & Scudder, 1983;  
     Flannagan & MacDonald, 1987; Ruiter, 1995);  
 CO (Ross & Merkley, 1952; Nimmo, 1971; Herrmann, Ruiter, & Unzicker, 1986; Ruiter, 1995;  
     Ruiter, 1996; Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
     Wissinger, Perchik, & Klemmer, 2018;  
     Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
 ID (Banks, 1900; Banks, 1943; Nimmo, 1971; Ruiter, 1995);  
 ME (Banks, 1900; Blickle & Morse, 1966; Ruiter, 1995);  
 MN (Etnier, 1968; MacLean, 1995; Ruiter, 1995;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Wiggins, 1961; Marshall & Larson, 1982;  
     Flannagan & MacDonald, 1987; Ruiter, 1995);  
 NH (Morse & Blickle, 1953; Ruiter, 1995);  
 NT (Flannagan & MacDonald, 1987; Ruiter, 1995);  
 NY (Banks, 1908; Banks, 1943; Betten, 1926; Schmid, 1955;  
     Ruiter, 1995; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 ON (Flannagan & MacDonald, 1987; Ruiter, 1995);  
 QC (Betten, 1934; Robert, 1958; Roy & Harper, 1975;  
     Roy & Harper, 1979; Flannagan & MacDonald, 1987);



Harper, 1989; Ruiter, 1995);  
 WY (Ruiter & Lavigne, 1985; Ruiter, 1995; Ruiter, 1996);  
 YT (Nimmo & Wickstrom, 1984; Ruiter, 1995; Wiggins & Parker, 1997).  
*Limnophilus submonilifer* Walker, 1852, North America;  
*Limnophilus (Goniotaulius) pudicus* Hagen, 1861 (Milne, 1935; Ross, 1938);  
 internal female genitalia (Unzicker, 1968);  
 case (Wiggins, 1977);  
 male foreleg (Schmid, 1980);  
 male genitalia (Marshall & Larson, 1982);  
 male & female genitalia (Ruiter, 1995);  
 male, female genitalia, & photo of adult (Houghton, 2012);  
 male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
 North America (Walker, 1852);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 northern, eastern, & central North America (Wiggins, 1961);  
 AR (Unzicker, Aggus, & Warren, 1970; Bowles & Mathis, 1989;  
 Ruiter, 1995; Moulton & Stewart, 1996);  
 CO (Betten, 1934; Ruiter, 1995; Moulton & Stewart, 1996);  
 CT (Britton, 1920; Nelson, 1987; Nelson & Downs, 1995;  
 Ruiter, 1995; Moulton & Stewart, 1996);  
 DC (Hagen, 1861; Banks, 1904; Ruiter, 1995; Moulton & Stewart, 1996);  
 DE (Ross, 1941; Lake, 1984; Ruiter, 1995; Moulton & Stewart, 1996);  
 IA (Blinn, Ruiter, & Flint, 2009;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Betten, 1934; Ross, 1944; Ruiter, 1995; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Betten, 1934; Waltz & McCafferty, 1983; Ruiter, 1995; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Harris, 1835; Neves, 1979; Bilger, 1986; Ruiter, 1995; Moulton & Stewart, 1996;  
 Whitmore, 2021);  
 MB (Flannagan & MacDonald, 1987; Ruiter, 1995; Moulton & Stewart, 1996);  
 MD (Flint, 1960; Ruiter, 1995; Moulton & Stewart, 1996; Flint, 2008);  
 ME (Johnson, 1927; Blickle & Morse, 1966;  
 Ruiter, 1995; Moulton & Stewart, 1996; Huryn & Harris, 2000);  
 MI (Betten, 1934; Leonard & Leonard, 1949; Ellis, 1962; Davis, Hudson, & Armitage, 1991;  
 Ruiter, 1995; Moulton & Stewart, 1996; Houghton, Brandin, & Brakel, 2011;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Elkins, 1936; Etnier, 1965; MacLean, 1995; Ruiter, 1995; Moulton & Stewart, 1996;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Brimley, 1938; Armitage & Tennessen, 1984; Ruiter, 1995; Moulton & Stewart, 1996;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 ND (Harris, Lago, & Carlson, 1980; Ruiter, 1995; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Banks, 1908; Wiggins, 1961; Marshall & Larson, 1982;  
 Flannagan & MacDonald, 1987; Ruiter, 1995; Moulton & Stewart, 1996);  
 NH (Hagen, 1873; Morse & Blickle, 1953; Ruiter, 1995; Moulton & Stewart, 1996);  
 NJ (Smith, 1890; Smith, 1900; Smith, 1910; Ross, 1941; Ruiter, 1995; Moulton & Stewart, 1996);  
 NS (Banks, 1930; Ruiter, 1995; Moulton & Stewart, 1996);  
 NY (Hagen, 1861; Betten, 1901; Sibley, 1926; McCabe, 1986; Ruiter, 1995;  
 Moulton & Stewart, 1996; Myers, Kondratieff, Mihuc, & Ruiter, 2011);

- OH (Marshall, 1939; Ross, 1944; Huryn & Foote, 1983; MacLean & MacLean, 1984; Usis & MacLean, 1986; Garono & MacLean, 1988; Ruiter, 1995; Moulton & Stewart, 1996; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- ON (Ricker, 1934; Wiggins, 1973; Bärlocher, Mackay, & Wiggins, 1978; Wiggins, Mackay, & Smith, 1980; Flannagan & MacDonald, 1987; Blades & Marshall, 1994; Ruiter, 1995; Moulton & Stewart, 1996);
- PA (Ross, 1941; Swegman, Walker, & Sykora, 1981; Masteller & Flint, 1992; Ruiter, 1995; Moulton & Stewart, 1996);
- QC (Ross, 1944; Robert, 1958; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1975; Roy & Harper, 1979; Flannagan & MacDonald, 1987; Ruiter, 1995; Moulton & Stewart, 1996);
- RI (Betten, 1934; Ruiter, 1995; Moulton & Stewart, 1996; Hunt, 2017; Oláh, Anderson, Beshkov, et al, 2019);
- SC (Ruiter, 1995);
- SD (Ross, 1944; Ruiter, 1995; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- TN (Döhler, 1915; Etnier 1973; Etnier & Schuster, 1979; Ruiter, 1995; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998);
- VA (Parker & Voshell, 1981; Ruiter, 1995; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2008);
- VT (Wimmer, 1979; Ruiter, 1995; Moulton & Stewart, 1996);
- WA (Ross, 1941; Ruiter, 1995; Moulton & Stewart, 1996);
- WI (Vorhies, 1909; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hilsenhoff, 1995; Ruiter, 1995; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- WV (Hill & Tarter, 1978; Tarter, 1990; Ruiter, 1995; Moulton & Stewart, 1996; Tarter & Floyd, 2016).
- Limnephilus sylviae* Denning, 1949, OR;  
male & female genitalia (Ruiter, 1995);  
BC (Ross & Spencer, 1952; Ruiter, 1995);  
OR (Denning, 1949; Schmid, 1955; Anderson, 1976; Ruiter, 1995)  
WY (Ruiter, 1995).
- Limnephilus taloga* Ross, 1938, OK;  
*Limnephilus chavas* Nimmo, 1991, NM (Ruiter, 1995);  
male & female genitalia (Ruiter, 1995);  
CO (Kumar, Lavigne, Lloyd, & Pfadt, 1976; Herrmann, 1977; Herrmann, Ruiter, & Unzicker, 1986; Ruiter, 1995; Ruse & Herrmann, 2000; Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
KS (Hamilton & Schuster, 1980; Ruiter, 1995);  
MT (Roemhild, 1982; Ruiter, 1995);  
NM (Nimmo, 1991; Ruiter, 1995);  
OK (Ross, 1938; Schmid, 1955; Hamilton & Schuster, 1980; Bowles & Mathis, 1992; Ruiter, 1995);  
TX (Ruiter, 1995; Moulton & Stewart, 1997);  
UT (Ross, 1938; Schmid, 1955; Hamilton & Schuster, 1980; Baumann & Unzicker, 1981; Ruiter, 1995);  
WY (Ruiter & Lavigne, 1985; Ruiter, 1995).
- Limnephilus thor* Ross, 1938, UT;  
male & female genitalia (Ruiter, 1995; Houghton, 2012);  
AB (Ruiter, 1995);  
CO (Herrmann, Ruiter & Unzicker, 1986; Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
ID (Newell & Minshall, 1977; Ruiter, 1995);  
MB (Ruiter, 1995);  
MI (Houghton, 2020; Houghton, 2022);

- Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012);  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 UT (Ross, 1938; Schmid, 1955; Ruiter, 1995);  
 WY (Ruiter & Lavigne, 1985; Ruiter, 1995).
- Limnophilus tulatus* Denning, 1962, AZ;  
 male & female genitalia (Ruiter, 1995);  
 AZ (Denning, 1962; Ruiter, 1995; Blinn & Ruiter, 2006);  
 CA (Resh & Mendez, 2022);  
 NM (Ruiter, 1995);  
 TX (Ruiter, 1995);  
 UT (Ruiter, 1995);  
 Mexico (Ruiter, 1995).
- Limnophilus uintah* Nimmo, 1991, UT;  
 male & female genitalia (Ruiter, 1995);  
 UT (Nimmo, 1991; Ruiter, 1995).
- Monophylax mono* (Denning, 1970), Psychoglypha, CA;  
 male genitalia (Nimmo, 1987);  
 male & female genitalia (Nimmo, 2012);  
 photo of forewing, male and female genitalia (Wiggins & Wisseman, 1990);  
 CA (Denning, 1970; Nimmo, 1987; Wiggins & Wisseman, 1990; Nimmo, 2012;  
 Resh & Mendez, 2022);  
 ID ("probably," Wiggins & Wisseman, 1990);  
 OR (Wiggins & Wisseman, 1990; Nimmo, 2012);  
 WA (Wiggins & Wisseman, 1990);  
 WY (Wiggins & Wisseman, 1990).
- Montiphylax albus* (Nimmo, 1977), Philocasca, AB;  
 photos of larva, larval & pupal cases, pupa, male & female genitalia (Ruiter & Mutch, 2019);  
 AB (Nimmo, 1977; Schmid, 1980; Ruiter & Mutch, 2019; Lonsdale, 2020).
- Montiphylax antennatus* (Banks, 1900), Stenophylax, WA;  
 male genitalia (Flint, 1966);  
 male genitalia (Wiggins & Anderson, 1968);  
 photos of larval & prepupal case, adult wings, head, & male genitalia (Ruiter & Mutch, 2019);  
 ID (Banks, 1943; Wiggins & Anderson, 1968);  
 WA (Banks, 1900; Wiggins & Anderson, 1986; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005;  
 Blinn & Ruiter, 2013; Ruiter & Mutch, 2019).
- Montiphylax thor* (Nimmo, 1971), Philocasca, AB;  
 male genitalia (Schmid, 1980);  
 male & female genitalia (Ruiter & Mutch, 2019);  
 AB (Nimmo, 1971; Schmid, 1980; Ruiter & Mutch, 2019; Lonsdale, 2020).
- Nemotaulius hostilis* (Hagen, 1873), Glyphotaelius, SK;  
 male genitalia (Denning, 1971);  
 wings, male & female genitalia (Nimmo, 1971);  
 larva, case (Wiggins, 1977);  
 photos of adult head, thorax, wings; male & female genitalia  
 (Schmid, 1980);  
 forewing, male genitalia (Marshall & Larson, 1982);  
 male & female genitalia (Houghton, 2012);  
 photos of larva & case, head (Ruiter, Boyle, & Zhou, 2013);  
 BC to OR to NF to New England states to MI (Wiggins, 1977);  
 New England (Hagen, 1873);  
 transcontinental northern North America (Wiggins, 1961);

AB (Schmid, 1952; Nimmo, 1971; Berté & Pritchard, 1986; Flannagan & MacDonald, 1987);  
 AK (Schmid, 1980; Vineyard, 1982; Flannagan & MacDonald, 1987);  
 BC (Ross & Spencer, 1952; Nimmo, 1971; Wiggins, 1977; Nimmo & Scudder, 1978;  
     Schmid, 1980; Flannagan & MacDonald, 1987);  
 CO (Dodds & Hisaw, 1925; Nimmo, 1971; Herrmann, Ruiter, & Unzicker, 1986; Ruiter, 1996;  
     Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
     Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
 CT (Britton, 1938; Nelson & Downs, 1995);  
 MA (Neves, 1979);  
 MB (Nimmo, 1971; Flannagan & Flannagan, 1982; Flannagan & MacDonald, 1987;  
     Ruiter, Boyle, & Zhou, 2013; Chatila-Amos, 2021);  
 ME (Procter, 1946; Blickle & Morse, 1966; Mingo & Gibbs, 1979; Bilger, 1986;  
     Huryn & Harris, 2000);  
 MI (Hagen, 1873; Leonard & Leonard, 1949; Nimmo, 1971;  
     Wiggins, 1977; Davis, Hudson, & Armitage, 1991; Houghton, Brandin, & Brakel, 2011;  
     DeWalt & South, 2015; Houghton, 2016;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton & Lardner, 2020; Houghton, 2022;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Nimmo, 1971; Lager, Johnson, Williams, & McCullough, 1979;  
     Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ND (Harris, Lago, & Carlson, 1980;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Wiggins, 1961; Wiggins, 1977; Nimmo, 1971; Schmid, 1980; Marshall & Larson, 1982;  
     Flannagan & MacDonald, 1987; Larson & House, 1990);  
 NH (Banks, 1892; Ross, 1944; Nimmo, 1971; Bilger, 1986);  
 NS (Banks, 1930; Nimmo, 1971);  
 NT (Ulmer, 1907; Flint, 1960; Nimmo, 1971; Nimmo, 1986; Flannagan & MacDonald, 1987;  
     Cordero, Sánchez-Ramírez, & Currie, 2017);  
 NY (Lloyd, 1921; Nimmo, 1971; McCabe, 1986; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Richardson & Mackay, 1984; Flannagan & MacDonald, 1987;  
     Williams, Tavares, & Bryant, 1987; Harper, 1989);  
 OR (Denning, 1971; Anderson, 1976; Wiggins, 1977);  
 PA (Masteller & Flint, 1979; Masteller & Flint, 1992);  
 QC (Robert, 1958; Corbet, Schmid, & Augustin, 1966; Nimmo, 1971; Roy & Harper, 1975;  
     Roy & Harper, 1979; Flannagan & MacDonald, 1987; Harper, 1989);  
 SK (Hagen, 1873; Nimmo, 1971; Flannagan & MacDonald, 1987);  
 UT (Baumann & Unzicker, 1981);  
 VA (Roble & Flint, 2001; Flint, Hoffman, & Parker, 2008);  
 VT (Bilger, 1986);  
 WI (Betten, 1934; Nimmo, 1971; Hilsenhoff, 1975; Shapas & Hilsenhoff, 1976;  
     Hilsenhoff, 1995;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Hill & Tarter, 1978; Tarter & Hill, 1980; Stout & Stout, 1989;  
     Tarter, 1990; Griffith & Perry, 1992; Tarter & Floyd, 2016);  
 WY (Ruiter & Lavigne, 1985);  
 YT (Wiggins & Parker, 1997).

Onocosmoecus sequoiae Wiggins & Richardson, 1986, CA;  
     CA (Wiggins & Richardson, 1986; Resh & Mendez, 2022).

Onocosmoecus unicolor (Banks, 1897), Anabolia, WA;  
     Dicosmoecus alascensis Banks, 1943, AK (Wiggins & Richardson, 1986);

*Dicosmoecus occidentis* Banks, 1943, ID (Wiggins & Richardson, 1986);  
*Dicosmoecus coloradensis* Ulmer, 1905, CO (Wiggins & Richardson, 1986);  
*Dicosmoecus flavus* Martynov, 1914, Kamtchatka (Wiggins & Richardson, 1986);  
*Anabolia quadrinotatus* Banks, 1908, NF (Wiggins & Richardson, 1986);  
*Asynarchus tristis* Banks, 1900, CO (Wiggins & Richardson, 1986);  
 male genitalia (Banks, 1943);  
 male & female genitalia (Nimmo, 1971; Schmid, 1980; Marshall & Larson, 1982;  
 Houghton, 2012);  
 larva, male & female genitalia; photos of males (Wiggins & Richardson, 1986);  
 larval pronotum, larval and pupal case posterior sieve membranes,  
 pupal head, adult meso- and metapleura (Wiggins & Richardson, 1989);  
 photos of larval head, meso- leg (Ruiter, Boyle, & Zhou, 2013);  
 AB (Banks, 1943; Nimmo, 1971; Wiggins & Richardson, 1986);  
 AK (Banks, 1943; Nimmo, 1943; Ellis, 1978; Vineyard, 1982;  
 Wiggins & Richardson, 1986; Irons, 1988; Kendrick & Huryn, 2014);  
 AZ (Ruiter, 1996; Houghton, 2001; Blinn & Ruiter, 2006; Blinn & Ruiter, 2009a);  
 BC (Banks, 1943; Ross & Spencer, 1952; Schmid & Guppy, 1952;  
 Nimmo, 1971; Nimmo & Scudder, 1978; Nimmo & Scudder, 1983;  
 Wiggins & Richardson, 1986);  
 CA (Ross, 1941; Banks, 1943; Denning, 1956; Nimmo, 1971; Wiggins & Richardson, 1986;  
 Erman, 1989; Erman & Erman, 1990; Givens, 2014; Resh & Mendez, 2022);  
 CO (Banks, 1900; Ulmer, 1905; Ross, 1938; Banks, 1943; Nimmo, 1971; Canton & Ward, 1981;  
 Herrmann, Ruiter, & Unzicker, 1986; Wiggins & Richardson, 1986;  
 DeWalt, Stewart, Moulton, & Kennedy, 1994; Ruiter, 1996; Ruse & Herrmann, 2000;  
 Zuellig, Kondratieff, Ruiter, & Thorp, 2006;  
 Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 ID (Ross, 1941; Banks, 1943; Nimmo, 1971; Newell & Minshall, 1977;  
 Wiggins & Richardson, 1986);  
 MA (Flint, 1960; Neves, 1979; Wiggins & Richardson, 1986; Whitmore 2008; Whitmore, 2021);  
 MB (Nimmo, 1971; Cobb, Flannagan, & Friesen, 1984;  
 Wiggins & Richardson, 1986; Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010;  
 Ruiter, Boyle, & Zhou, 2013);  
 ME (Flint, 1960; Blicke & Morse, 1966; Nimmo, 1971; Wiggins & Richardson, 1986);  
 MI (Leonard & Leonard, 1949; Nimmo, 1971;  
 Wiggins, & Richardson, 1986; Houghton, Brandin, & Brakel, 2011;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton & Lardner, 2020; Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Banks, 1943; Newell, 1970; Nimmo, 1971; Newell & Potter, 1973; Roemhild, 1982;  
 Wiggins & Richardson, 1986; Stagliano, 2020);  
 NF (Banks, 1908; Marshall & Larson, 1982; Wiggins & Richardson, 1986;  
 Cordero, Sánchez-Ramírez, & Currie, 2017);  
 NH (Banks, 1943; Nimmo, 1971; Wiggins & Richardson, 1986);  
 NM (Nimmo, 1971; Molles, 1982; Wiggins & Richardson, 1986);  
 NS (Banks, 1943; Schmid, 1980; Wiggins & Richardson, 1986);  
 NT (Schmid, 1955; Nimmo, 1971; Nimmo, 1986; Wiggins & Richardson, 1986;  
 Cordero, Sánchez-Ramírez, & Currie, 2017);  
 NV (Wiggins & Richardson, 1986; Ruiter, Baumann, & Flint, 2014);  
 NY (McCabe, 1986; Wiggins & Richardson, 1986; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 ON (Banks, 1943; Flint, 1960; Nimmo, 1971; Schmid, 1980; Wiggins & Richardson, 1986;  
 Williams & Williams, 1987);  
 OR (Ross, 1941; Banks, 1943; Anderson, 1967; Nimmo, 1971; Anderson & Wold, 1972;  
 Anderson, Cooper, & Denning, 1982; Wisseman & Anderson, 1984);

Wiggins & Richardson, 1986; Anderson & Hansen, 1987; Wisseman & Anderson, 1992);  
PE (Dobrin & Giberson, 2003);  
QC (Roy & Harper, 1975; Roy & Harper, 1979; Williams & Williams, 1979;  
Wiggins & Richardson, 1986; Williams & Williams, 1987; Harper, 1989;  
Cordero, Sánchez-Ramírez, & Currie, 2017);  
SD (Wiggins & Richardson, 1986;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
SK (Wiggins & Richardson, 1986);  
UT (Knowlton & Harmston, 1939; Nimmo, 1971; Baumann & Unzicker, 1981;  
Wiggins & Richardson, 1986);  
VT (Wimmer, 1979; Bilger, 1986; Wiggins & Richardson, 1986);  
WA (Banks, 1897; Nimmo, 1971; Smith, 1981; Wiggins & Richardson, 1986;  
Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013;  
Morley, Foley, Duda et al, 2020);  
WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
Wiggins & Richardson, 1986; Hilsenhoff, 1995;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
WY (Nimmo, 1971; Ruiter & Lavigne, 1985; Wiggins & Richardson, 1986; Ruiter, 1996);  
YT (Nimmo & Wickstrom, 1984; Wiggins & Richardson, 1986; Wiggins & Parker, 1997;  
Cordero, Sánchez-Ramírez, & Currie, 2017);  
Japan;  
Kamchatka [Siberia] (Martynov, 1914);  
USSR (Wiggins & Richardson, 1986).

*Phanocelia canadensis* (Banks, 1924), Apatania, MB;  
female genitalia (Schmid, 1968);  
wings, male & female genitalia (Nimmo, 1971; Schmid, 1980);  
larva, case (Fairchild & Wiggins, 1989);  
photos of larva & case, head (Ruiter, Boyle, & Zhou, 2013);  
male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
AB (Schmid, 1980);  
AK (Rinella & Bogan, 2008);  
CT (Nelson & Downs, 1995);  
MB (Banks, 1924; Neave, 1934; Schmid, 1952; Schmid, 1968; Schmid, 1980;  
Flannagan & Flannagan, 1982; Ruiter, Boyle, & Zhou, 2013; Chatila-Amos, 2021);  
MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NH (Morse & Blickle, 1953);  
NT (Schmid, 1968; Schmid, 1980; Nimmo, 1986);  
NB (Fairchild & Wiggins, 1989);  
QC (Roy & Harper, 1979; Harper, 1989).

*Philarctus bergrothi* McLachlan, 1880, Russia (northwestern Siberia)  
Colpotaulius quaeris Milne, 1935, BC (Schmid, 1980);  
larva, pupa, cases (Wiggins, 1963);  
male genitalia (Etnier, 1965; Houghton, 2012);  
male & female genitalia (Nimmo, 1971);  
larva, case (Wiggins, 1977);  
male foreleg, male & female genitalia (Schmid, 1980);  
photos of larva & case, head, meso- leg (Ruiter, Boyle, & Zhou, 2013);  
male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
photos of larva and case (Chatila-Amos, 2021);  
MB to BC to CO (Wiggins, 1977);  
NT to OR to CO to MN (Nimmo, 1971);  
AB (Wiggins, 1963; Nimmo, 1971; Oláh, Anderson, Beshkov, et al, 2019);

AK (Rinella , Bogan, Shaftel, & Merrigan, 2012);  
BC (Milne, 1935; Ross & Spencer, 1952; Wiggins, 1977; Nimmo & Scudder, 1978);  
CO (Milne, 1935; Nimmo, 1971; Wiggins, 1977; Herrmann, Ruiter, & Unzicker, 1986;  
Ruse & Herrmann, 2000; Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
MB (Milne, 1935; Wiggins, 1963; Wiggins, 1977; Nimmo, 1971; Lehmkuhl & Kerst, 1979;  
Schmid, 1980; Flannagan & Flannagan, 1982;  
Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruiter, Boyle, & Zhou, 2013;  
Chatila-Amos, 2021);  
MN (Etnier, 1965; Nimmo, 1971; Houghton, Holzenthal, Monson, & MacLean, 2001;  
Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
ND (Harris, Lago, & Carlson, 1980;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NT (Nimmo, 1971; Nimmo, 1986; Schmid, 1980);  
OR (Ross & Spencer, 1952; Nimmo, 1971; Anderson, 1976);  
SD (Nimmo, 1971;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
SK (Nimmo, 1971);  
WY (Ruiter & Lavigne, 1985);  
YT (Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997).

*Philocasca banksi* (Denning, 1941), Anisogamus, ID;  
male genitalia (Wiggins & Anderson, 1968);  
ID (Denning, 1941; Wiggins & Anderson, 1968);  
MT (Wiggins & Anderson, 1968).

*Philocasca demita* Ross, 1941, OR;  
larva, pupa, cases (Anderson, 1967);  
larva, pupa, male & female genitalia (Wiggins, & Anderson, 1968);  
female genitalia (Schmid, 1980);  
male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
OR (Ross, 1941; Anderson, 1967; Wiggins & Anderson, 1968; Anderson, 1976;  
Oláh, Anderson, Beshkov, et al, 2019).

*Philocasca oron* Ross, 1949, OR;  
male & female genitalia (Wiggins & Anderson, 1968);  
OR (Ross, 1949; Wiggins & Anderson, 1968; Anderson, 1976).

*Philocasca rivularis* Wiggins, 1968, OR;  
larva, pupa, male & female genitalia (Wiggins & Anderson, 1968);  
larva, case (Wiggins, 1977);  
CA (Wiggins & Anderson, 1968; Resh & Mendez, 2022);  
OR (Wiggins, 1968; Wiggins & Anderson, 1968; Anderson, 1976;  
Wiggins, 1977; Anderson, Cooper, & Denning, 1982).

*Platycentropus amicus* (Hagen, 1861), Hallesus, LA;  
*Platycentropus plectrus* Ross, 1938, MI (Flint, 1966);  
male genitalia (Nimmo, 1977; Houghton, 2012);  
AB (Nimmo, 1977; Schmid, 1980);  
IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
LA (Hagen, 1861; Holzenthal, Harris, & Lago, 1982);  
MB (Flannagan & Flannagan, 1982);  
ME (Hury & Harris, 2000);  
MI (Leonard & Leonard, 1949; Ellis, 1962; Nimmo, 1977; Houghton, Brandin, & Brakel, 2011;  
Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MN (Schmid, 1955; Etnier, 1965; Nimmo, 1977; Schmid, 1980; MacLean, 1995; Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NJ (Banks, 1943);  
 ON (Williams, Tavares, & Bryant, 1987);  
 QC (Roy & Harper, 1979; Harper, 1989);  
 RI (Banks, 1943; Hunt, 2017);  
 SK (Nimmo, 1977; Schmid, 1980);  
 WI (Ross, 1938; Banks, 1943; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Nimmo, 1977; Hilsenhoff, 1995; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).  
*Platycentropus indistinctus* (Walker, 1852), *Limnophilus*, NF;  
 male & female genitalia (Marshall & Larson, 1982);  
 northeastern North America (Wiggins, 1961);  
 MA (Banks, 1943; Flint, 1960; Flint, 1966);  
 ME (Blickle & Morse, 1966);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Denning, 1937; Etnier, 1965);  
 NF (Walker, 1852; Banks, 1908; Banks, 1943; Wiggins, 1961; Schmid, 1980; Marshall & Larson, 1982);  
 NH (Banks, 1943);  
 NS (Banks, 1930);  
 NY (Betten, 1901; Betten, 1934; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 ON (Schmid, 1980);  
 QC (Robert, 1958; Roy & Harper, 1975; Roy & Harper, 1979);  
 VT (Wimmer, 1979).  
*Platycentropus radiatus* (Say, 1824), *Phryganea*, NT;  
*Limnophilus externus* Ulmer, 1907 nec Hagen;  
*Halesus hostis* Hagen, 1861 (Smith, 1910; Ross, 1944);  
*Limnophilus indicans* Walker, 1852 (Ross, 1944);  
*Hallesus maculipennis* Kolenati, 1859 (Ross, 1944);  
 habitus, male genitalia (Ross, 1944);  
 larva, case (Wiggins, 1977);  
 forewing, apical spur of male hindtibia, male & female genitalia (Schmid, 1980);  
 forewing, male genitalia (Marshall & Larson, 1982);  
 male genitalia & photo of adult (Houghton, 2012);  
 male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris, 1987; Harris & Lago, 1990; Harris, 1990; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 AR (Moulton & Stewart, 1996);  
 CT (Nelson, 1987; Downs & Godwin, 1987; Nelson & Downs, 1995; Moulton & Stewart, 1996);  
 DE (Lake, 1984; Moulton & Stewart, 1996);  
 GA (Walker, 1852; Ross, 1944; Moulton & Stewart, 1996);  
 IA (Blinn, Ruiter, & Flint, 2009; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Hagen, 1861; Ulmer, 1907; Ross, 1944; Moulton & Stewart, 1996; Zhou, 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1944; Waltz & McCafferty, 1983; Moulton & Stewart, 1996; Zhou, 2011; DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Moulton & Stewart, 1996; Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Harris, 1835; Bohigas & Sanchez, 1917; Betten, 1934;



Neves, 1979; Moulton & Stewart, 1996; Whitmore 2008; Whitmore, 2021);  
 MB (Hagen, 1861; Ulmer, 1907; Ross, 1944; Schmid, 1980; Flannagan & Flannagan, 1982;  
 Moulton & Stewart, 1996);  
 MD (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 ME (Johnson, 1927; Procter, 1946; Blickle & Morse, 1966; Bilger, 1986;  
 Moulton & Stewart, 1996; Huryñ & Harris, 2000);  
 MI (Needham, 1908; Ross, 1944; Ellis, 1962; Petersen & Cummins, 1974;  
 Moulton & Stewart, 1996; Houghton, Brandin, & Brakel, 2011;  
 Wright, Pytel, & Houghton, 2013; Brakel, Wassink, & Houghton, 2015;  
 DeWalt & South, 2015; Houghton, 2016;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton & Lardner, 2020; Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Ross, 1944; Etnier, 1965; MacLean, 1995; Moulton & Stewart, 1996; Monson, 1997;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Zhou, 2011; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996);  
 NC (Wray, 1950; Moulton & Stewart, 1996;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Zhou, 2011;  
 Oláh, Anderson, Beshkov, et al, 2019);  
 ND (Harris, Lago, & Carlson, 1980; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Banks, 1908; Ross, 1944; Marshall & Larson, 1982);  
 NH (Hagen, 1873; Morse & Blickle, 1953; Wiggins, 1977);  
 NJ (Smith, 1900; Smith, 1910; Ross, 1941; Flint, 1960; Moulton & Stewart, 1996; Zhou, 2011);  
 NS (Banks, 1930; Schmid, 1980; Moulton & Stewart, 1996);  
 NT (Say, 1824; Moulton & Stewart, 1996);  
 NY (Betten, 1901; Needham & Betten, 1901; Lloyd, 1921; Betten, 1934; Ross, 1944;  
 Moulton & Stewart, 1996; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (McElravy, Arsuffi, & Foote, 1977; Huryñ & Foote, 1983; MacLean & MacLean, 1984;  
 Usis & MacLean, 1986; Garono & MacLean, 1988; Moulton & Stewart, 1996;  
 Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Ross, 1944; Sprules, 1947; Williams & Williams, 1987; Moulton & Stewart, 1996;  
 Zhou, 2011);  
 PA (Ross, 1941; Hyland, 1948; Masteller & Flint, 1992; Moulton & Stewart, 1996);  
 QC (Robert, 1958; Roy & Harper, 1975; Roy & Harper, 1979; Harper, 1989;  
 Moulton & Stewart, 1996);  
 RI (Hunt, 2017);  
 SC (Morse, Hamilton, & Hoffman, 1989; Moulton & Stewart, 1996;  
 Floyd, Morse, & Harris, 1997; Zhou, 2011);  
 TN (Etnier & Schuster, 1979; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998;  
 Zhou, 2011);  
 VA (Parker & Voshell, 1981; Hoffman & Parker, 1997; Moulton & Stewart, 1996;  
 Flint, Hoffman, & Parker, 2008; Zhou, 2011);  
 WA (Banks, 1899; Moulton & Stewart, 1996);  
 WI (Ross, 1944; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
 Steven & Hilsenhoff, 1984; Hilsenhoff, 1995; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Hill & Tarter, 1978; Tarter & Hill, 1980; Stout & Stout, 1989; Tarter, 1990;  
 Moulton & Stewart, 1996; Tarter & Floyd, 2016).

*Pseudostenophylax edwardsi* (Banks, 1920), Anisogamus, CA;  
 male genitalia (Denning 1956);  
 larva (Ross, 1959, as *Limnephilid* Genus A; Flint, 1960, as Genus A);

larva, pupa, case, female genitalia (Wiggins & Anderson, 1968);  
 photo of eggmass (Anderson, 1974);  
 BC to CA (Wiggins & Anderson, 1968; Anderson, 1974; Wiggins, 1977);  
 BC (Wiggins & Anderson, 1968; Anderson, 1974; Wiggins, 1977; Schmid, 1980);  
 CA (Banks, 1920; Banks, 1924; Flint, 1966; Wiggins & Anderson, 1968; Anderson, 1974;  
 Wiggins, 1977; Resh & Mendez, 2022);  
 OR (Wiggins, & Anderson, 1968; Anderson, 1974; Anderson, 1976;  
 Anderson, Cooper, & Denning, 1982; Wisseman & Anderson, 1984;  
 Anderson & Hansen, 1987; Anderson, 1997).  
*Pseudostenophylax sparsus* (Banks, 1908), Halesus, NF;  
*Stenophylax calypso* Banks, 1911, NY (Ross, 1938);  
*Potamorites virginicus* Ross, 1944, nec Banks, 1900;  
 male genitalia (Ross, 1944; Houghton, 2012);  
 larva, case (Wiggins, 1977);  
 male & female genitalia (Schmid, 1980);  
 male genitalia (Marshall & Larson, 1982);  
 CT (Nelson, 1987; Nelson & Downs, 1995);  
 MA (Neves, 1979);  
 ME (Procter, 1946; Blickle & Morse, 1966; Huryn & Harris, 2000);  
 MI (Houghton, 2016;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Wray, 1950; DeWalt, Jacobus, & McCafferty, 2007;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NF (Banks, 1908; Marshall & Larson, 1982);  
 NH (Morse & Blickle, 1953);  
 NY (Banks, 1911; Betten, 1926; Zhou, 2011; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (MacLean & MacLean, 1980; Huryn & Foote, 1983; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Wiggins, 1977; Sinclair & Marshall, 1986; Williams & Williams, 1987; Zhou, 2011);  
 PA (Masteller & Flint, 1992);  
 QC (Betten, 1934; Roy & Harper, 1975; Roy & Harper, 1979);  
 VA (Parker & Voshell, 1981; Flint, Hoffman, & Parker, 2008);  
 VT (Wimmer, 1979);  
 WI (Steven & Hilsenhoff, 1984; Hilsenhoff, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Hill & Tarter, 1978; Tarter & Hill, 1980; Tarter, 1990; Zhou, 2011; Tarter & Floyd, 2016).  
*Pseudostenophylax uniformis* (Betten, 1934), Drusus, NY;  
 Considered a subspecies of *Pseudostenophylax sparsus* by Schmid, 1991;  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Zhou, 2011);  
 CT (Nelson, 1987; Nelson & Downs, 1995; Moulton & Stewart, 1996);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1944; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Moulton & Stewart, 1996; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Flint, 1960; Neves, 1979; Moulton & Stewart, 1996);  
 ME (Flint, 1960; Blickle & Morse, 1966; Moulton & Stewart, 1996);  
 MN (Etnier, 1965; Moulton & Stewart, 1996);

Houghton, Holzenthal, Monson, & MacLean, 2001;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Mathis, 1999; Ferro & Sites, 2007;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Wray, 1950; Penrose, Lenat, & Eagleson, 1982; Moulton & Stewart, 1996; Zhou, 2011);  
 NH (Flint, 1960; Moulton & Stewart, 1996);  
 NS (Zhou, 2011);  
 NY (Betten, 1934; Flint, 1957; McCabe, 1986; Moulton & Stewart, 1996);  
 OH (Huryn & Foote, 1981; Huryn & Foote, 1983; Moulton & Stewart, 1996;  
 Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Flint, 1960; Moulton & Stewart, 1996; Zhou, 2011);  
 PA (Masteller & Flint, 1979; Masteller & Flint, 1984; Masteller & Flint, 1992;  
 Moulton & Stewart, 1996);  
 QC (Roy & Harper, 1979; Moulton & Stewart, 1996);  
 SC (Moulton & Stewart, 1996);  
 TN (Ross, 1944; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998;  
 DeWalt & Heinold, 2005; Zhou, 2011);  
 VA (Flint, Hoffman, & Parker, 2008; Zhou, 2011);  
 VT (Wimmer, 1979; Bilger, 1986; Moulton & Stewart, 1996);  
 WI (Hilsenhoff, 1975; Steven & Hilsenhoff, 1984; Hilsenhoff, 1995; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Hill & Tarter, 1978; Tarter & Hill, 1980; Tarter, 1990; Griffith & Perry, 1992;  
 Griffith, Barrows, and Perry, 1998; Moulton & Stewart, 1996; Tarter & Floyd, 2016).

*Psychoglypha adamantina* Nimmo, 2012, BC;  
 male & female genitalia (Nimmo, 2012);  
 BC (Nimmo, 2012).

*Psychoglypha alascensis* (Banks, 1900), *Halesus* ?, AK;  
*Glyphopsyche ullus* Milne, 1935, BC (Denning, 1970);  
*Platyphylax alascensis* [sic] Banks, 1908, is the type, Schmid, 1952,  
 spelled "alaskensis" Schmid 1955, Flint, 1960;  
 Fischer, 1969; Fischer, 1973, Nimmo, 1971 --  
 Parker & Wiggins, 1985);  
 male & female genitalia (Denning, 1970; Nimmo, 1971; Schmid, 1980; Nimmo, 2012);  
 female genitalia (Nimmo, 1977);  
 AB (Nimmo, 2012);  
 AK (Banks, 1900; Nimmo, 2012);  
 BC (Milne, 1935; Schmid & Guppy, 1952; Ross & Spencer, 1952; Denning, 1970; Nimmo 1971;  
 Nimmo & Scudder, 1978; Nimmo & Scudder, 1983; Nimmo, 2012);  
 CA (Nimmo, 2012; Resh & Mendez, 2022);  
 ID (Denning, 1970);  
 ME (Blickle & Morse, 1966, as *Psychoglypha alaskensis* [Banks],  
 doubtful record far out of rest of range - see  
 Denning, 1970, and Parker & Wiggins, 1985);  
 MT (Newell, 1970; Newell & Potter, 1973; Roemhild, 1982; Nimmo, 2012);  
 OR (Denning, 1970; Anderson, 1976; Nimmo, 2012);  
 WA (Milne, 1935; Denning, 1970; Ruiters, Kondratieff, Lechleitner, & Zuellig, 2005;  
 Nimmo, 2012; Blinn & Ruiters, 2013);  
 WY (Milne, 1935; Denning, 1970);  
 YT (Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997; Nimmo, 2012).

*Psychoglypha avigo* (Ross, 1941), *Glyphopsyche*, OR;  
 adult photograph, male & female genitalia (Denning, 1970);  
 male & female genitalia (Nimmo, 2012);  
 AB (Williams & Williams, 1987; Nimmo, 2012);

- CA (Denning, 1956; Nimmo, 2012; Resh & Mendez, 2022);  
 OR (Ross, 1941; Anderson, 1967; Anderson, 1976; Anderson & Wold, 1972; Wiggins, 1973;  
 Anderson, Cooper, & Denning, 1982; Wisseman & Anderson, 1984;  
 Anderson & Hansen, 1987; Anderson, 1997; Nimmo, 2012);  
 UT (Schmid, 1952; Baumann & Unzicker, 1981).
- Psychoglypha bella* (Banks, 1903), *Glyphotaelius*, BC;  
 male & female genitalia (Denning, 1970);  
 photo of adult (Schmid, 1980);  
 male & female genitalia (Nimmo, 2012);  
 male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
 BC (Banks, 1903; Rawson, 1934; Ross, 1944; Schmid & Guppy, 1952;  
 Ross & Spencer, 1952; Nimmo & Scudder, 1978; Nimmo, 2012);  
 CA (Schmid, 1952; Denning, 1956; Erman, 1989; Nimmo, 2012;  
 Oláh, Anderson, Beshkov, et al, 2019; Resh & Mendez, 2022);  
 ID (Nimmo, 2012);  
 NV (Nimmo, 2012; Ruitter, Baumann, & Flint, 2014);  
 OR (Denning, 1970; Anderson & Wold, 1972; Anderson, 1976;  
 Anderson, Cooper, & Denning, 1982;  
 Anderson, Wisseman, & Courtney, 1984; Nimmo, 2012);  
 WA (Ulmer, 1906; Anderson & Wisseman, 1987;  
 Ruitter, Kondratieff, Lechleitner, & Zuellig, 2005; Nimmo, 2012).
- Psychoglypha browni* Denning, 1970, OR;  
 male & female genitalia (Nimmo, 2012);  
 OR (Denning, 1970; Anderson, 1976; Anderson, Cooper, & Denning, 1982;  
 Anderson, Wisseman, & Courtney, 1984; Nimmo, 2012);  
 WA (Anderson & Wisseman, 1987; Ruitter, Kondratieff, Lechleitner, & Zuellig, 2005;  
 Nimmo, 2012).
- Psychoglypha burdicki* Nimmo, 2012, OR;  
 male & female genitalia (Nimmo, 2012);  
 CA (Nimmo, 2012, ADDENDA; Resh & Mendez, 2022);  
 OR (Nimmo, 2012).
- Psychoglypha crateri* Nimmo, 2012, OR;  
 male & female genitalia (Nimmo, 2012);  
 OR (Nimmo, 2012).
- Psychoglypha delli* Nimmo, 2012, NV;  
 male & female genitalia (Nimmo, 2012);  
 NV (Nimmo, 2012; Ruitter, Baumann, & Flint, 2014).
- Psychoglypha denningi* Nimmo, 2012, CA;  
 male genitalia (Nimmo, 2012);  
 CA (Nimmo, 2012; Resh & Mendez, 2022).
- Psychoglypha gallatinensis* Nimmo, 2012, MT;  
 male genitalia (Nimmo, 2012);  
 MT (Nimmo, 2012).
- Psychoglypha klamathi* Denning, 1970, CA;  
 male & female genitalia (Nimmo, 2012);  
 CA (Denning, 1970; Erman & Erman, 1990; Nimmo, 2012; Resh & Mendez, 2022);  
 OR (Denning, 1970; Anderson, 1976; Nimmo, 2012).
- Psychoglypha leechi* Denning, 1970, CA;  
 male genitalia (Nimmo, 2012);  
 CA (Denning, 1970; Nimmo, 2012; Resh & Mendez, 2022).
- Psychoglypha maderi* Nimmo, 2012, CA;  
 male genitalia (Nimmo, 2012);  
 CA (Nimmo, 2012; Resh & Mendez, 2022)  
 UT (Nimmo, 2012, ADDENDA).
- Psychoglypha mazamae* Denning, 1970, CA;

- male genitalia (Nimmo, 2012);  
 CA (Denning, 1970; Erman, 1987; Erman & Erman, 1990; Erman, 1998; Nimmo, 2012;  
 Resh & Mendez, 2022);  
 OR (Denning, 1970; Nimmo, 2012).
- Psychoglypha mesalis* Nimmo, 2012, CA;  
 male genitalia (Nimmo, 2012);  
 CA (Nimmo, 2012; Resh & Mendez, 2022).
- Psychoglypha ormiai* (Ross, 1938), Glyphopsyche, UT;  
*Psychoglypha atlinensis* Ling, 1938, BC (Ross, 1944);  
 male genitalia (Schmid, 1952; Denning, 1970);  
 male & female genitalia (Nimmo, 2012);  
 BC (Ling, 1938);  
 CA (Denning, 1956; Denning, 1970; Erman, 1989; Erman & Erman, 1990; Nimmo, 2012;  
 Resh & Mendez, 2022);  
 CO (Herrmann, Ruiter, & Unzicker, 1986; Zuellig, Kondratieff, Ruiter, & Thorp, 2006;  
 Nimmo, 2012; Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 ID (Newell & Minshall, 1977);  
 OR (Schmid, 1952; Denning, 1970; Anderson, 1976; Nimmo, 2012);  
 UT (Ross, 1938; Denning, 1970; Nimmo, 2012);  
 WY (Ruiter & Lavigne, 1985, misidentification, actually *P. prita*, according to Ruiter (1999);  
 Nimmo, 2012).
- Psychoglypha patricius* Nimmo, 2012, CA;  
 male genitalia (Nimmo, 2012);  
 CA (Nimmo, 2012; Resh & Mendez, 2022).
- Psychoglypha prita* (Milne, 1935), Glyphopsyche, AB;  
 male & female genitalia (Denning, 1970; Nimmo, 2012);  
 male genitalia (Nimmo, 1971);  
 female genitalia (Nimmo, 1977);  
 AB (Milne, 1935; Nimmo, 1965; Denning, 1970;  
 Williams & Williams, 1987; Nimmo, 2012);  
 BC (Nimmo & Scudder, 1983; Nimmo, 2012);  
 ID (Smith, 1965; Denning, 1970; Nimmo, 2012);  
 MT (Newell, 1970; Newell & Potter, 1973; Roemhild, 1982; Nimmo, 2012);  
 OR (Anderson, 1976)  
 WY (Ruiter, 1999; Nimmo, 2012).
- Psychoglypha ravallii* Nimmo, 2012, MT;  
 male genitalia (Nimmo, 2012);  
 MT (Nimmo, 2012).
- Psychoglypha roemhildi* Nimmo, 2012, MT;  
 male & female genitalia (Nimmo, 2012);  
 MT (Nimmo, 2012).
- Psychoglypha rossi* Schmid, 1952, BC;  
 male genitalia (Denning, 1970; Nimmo, 2012);  
 AB (Nimmo, 2012);  
 BC (Schmid, 1952; Nimmo & Scudder, 1978; Nimmo, 2012).
- Psychoglypha schmidi* Nimmo, 1965, BC;  
 male genitalia (Denning, 1970);  
 male & female genitalia (Nimmo, 1971; Nimmo 2012);  
 AB (Nimmo, 2012);  
 BC (Nimmo, 1965; Denning, 1970; Nimmo, 1971; Nimmo & Scudder, 1978; Nimmo, 2012;  
 Lonsdale, 2020)  
 ID (Nimmo, 2012);  
 MT (Nimmo, 2012).
- Psychoglypha schuhi* Denning, 1970, NV;  
 male & female genitalia (Ruiter & Blinn, 2009);

male & female genitalia (Nimmo, 2012);  
 AZ (Blinn & Ruiter, 2006; Blinn & Ruiter, 2009a; Nimmo, 2012);  
 NV (Denning, 1970; Nimmo, 2012; Ruiter, Baumann, & Flint, 2014)  
 WY (Ruiter, 1999; Nimmo, 2012).  
*Psychoglypha smithi* Denning, 1970, ID;  
 male genitalia (Nimmo, 2012);  
 ID (Denning, 1970; Nimmo, 2012).  
*Psychoglypha subborealis* (Banks, 1924), Chilostigma, AK;  
*Psychoglypha alaskensis* Schmid nec Banks [1900], 1952;  
 Schmid, 1955, Flint, 1960, Fischer, 1969; Fischer, 1973 –  
 Roy & Harper, 1979, but see Denning, 1970, Wiggins, 1977,  
 and Parker & Wiggins, 1985);  
 male & female genitalia (Schmid, 1952; Denning, 1970; Nimmo, 2012);  
 larva (Flint, 1960);  
 larva, case (Wiggins, 1977);  
 male genitalia (Marshall & Larson, 1982);  
 transcontinental ME to ON to MI to AK to CA (Wiggins, 1977);  
 AB (Banks, 1924; Williams & Williams, 1987; Nimmo, 2012);  
 AK (Banks, 1924; Denning, 1970; Wiggins, 1977; Vineyard, 1982; Nimmo, 2012);  
 AZ (Blinn & Ruiter, 2006; Blinn & Ruiter, 2009a);  
 BC (Banks, 1924; Criddle, 1925; Ross & Spencer, 1952; Schmid, & Guppy, 1952; Denning, 1970;  
 Winterbourn, 1971; Nimmo, 1971; Nimmo & Scudder, 1978; Nimmo & Scudder, 1983;  
 Williams & Williams, 1987; Nimmo, 2012);  
 CA (Denning, 1970; Wiggins, 1977; Nimmo, 2012; Resh & Mendez, 2022);  
 CO (Kendall, Kevan, LaFontaine, 1981; Herrmann, Ruiter, & Unzicker, 1986;  
 Ruse & Herrmann, 2000; Zuellig, Kondratieff, Ruiter, & Thorp, 2006;  
 Zuellig, Heinold, Kondratieff, & Ruiter, 2012; Nimmo, 2012;  
 Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
 ID (Denning, 1970; Newell & Minshall, 1977; Nimmo, 2012);  
 MB (Cobb, Flannagan, & Friesen, 1984);  
 ME (Flint, 1960; Wiggins, 1977; Mingo & Gibbs, 1979; Mingo & Gibbs, 1980; Bilger, 1986);  
 MI (Ross, 1944; Ellis, 1962; Wiggins, 1977;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Denning, 1970; Newell, 1970; Newell & Potter, 1973; Roemhild, 1982; Nimmo, 2012);  
 NB (Williams & Williams, 1987);  
 NF (Schmid, 1980; Marshall & Larson, 1982; Adler, Light, & Cameron, 1985; Nimmo, 2012);  
 NH (Morse & Blickle, 1953; Nimmo, 2012);  
 NM (Vieira, Kondratieff, Ruiter, & Durfee, 2009);  
 NT (Nimmo, 1986; Nimmo, 2012);  
 NY (Flint, 1960; McCabe, 1986);  
 ON (Flint, 1960; Wiggins, 1977; Williams & Williams, 1987);  
 OR (Anderson, 1967; Anderson, 1976; Denning, 1970;  
 Anderson, Cooper, & Denning, 1982; Anderson & Hansen, 1987);  
 PA (Adler, Light, & Cameron, 1985; Masteller & Flint, 1992);  
 PE (Dobrin & Giberson, 2003);  
 QC (Williams & Williams, 1979; Harper, 1989);  
 SK (Williams & Williams, 1987);  
 UT (Banks, 1924; Knowlton & Harmston, 1939; Baumann & Unzicker, 1981; Nimmo, 2012);  
 VT (Wimmer, 1979);  
 WA (Denning, 1970; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Nimmo, 2012;  
 Blinn & Ruiter, 2013);  
 WI (Hilsenhoff, 1975; Hilsenhoff, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

WY (Nimmo, 2012);  
YT (Denning, 1970; Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997; Nimmo, 2012).

- Psychoronia brooksi* Ruiter, 1999, NM;  
male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
NM (Ruiter, 1999).
- Psychoronia costalis* (Banks, 1901), *Asynarchus*, NM;  
*Psychoronia brevipennis* (Banks, 1904) NM (Ruiter, 1999);  
*Hesperophylax oreades* Saether, 1971, CO (Parker & Wiggins, 1985);  
male & female genitalia (Wiggins, 1975);  
larva, case (Wiggins, 1977);  
CO (Saether, 1971; Wiggins, 1975; Wiggins, 1977; Herrmann, Ruiter, & Unzicker, 1986;  
Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
NM (Banks, 1901; Banks, 1904; Ross, 1941; Ross, 1944; Flint, 1966; Wiggins, 1975);  
UT (Baumann & Unzicker, 1981).
- Pycnopsyche aglona* Ross, 1941, ON;  
male wings, genitalia; female genitalia (Wojtowicz, 1982a);  
male genitalia (Houghton, 2012);  
male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
MA (Ross, 1941; Wojtowicz, 1982a);  
ME (Betten, 1950; Blickle & Morse, 1966; Wojtowicz, 1982a; Hury & Harris, 2000);  
MI (Houghton, 2020; Houghton, 2022);  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MN (MacLean, 1995; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NH (Wojtowicz, 1982a);  
NY (Betten, 1950; Wojtowicz, 1982a; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
OH (Usis & MacLean, 1986; Garono & MacLean, 1988; Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
ON (Ross, 1941; Wojtowicz, 1982a; Oláh, Anderson, Beshkov, et al, 2019);  
WI (Betten, 1950; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
Wojtowicz, 1982a; Hilsenhoff, 1995;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Pycnopsyche antica* (Walker, 1852), *Neuronia*, GA;  
*Pycnopsyche minima* Banks, 1943, VA (Wojtowicz, 1982a);  
male wings, genitalia; female genitalia (Wojtowicz, 1982a);  
male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
AL (Wojtowicz, 1982a; Moulton & Stewart, 1996; Hicks & Haynes, 2000a, and Hicks & Haynes,  
2000b, probably refer to this species; Harris & O'Neil, 2015);  
FL (Wojtowicz, 1982a; Pescador, Rasmussen, & Harris, 1995, 2004;  
Moulton & Stewart, 1996; Rasmussen, 2004; Denson, Rasmussen, & Harris, 2016);  
GA (Walker, 1852; Wojtowicz, 1982a; Moulton & Stewart, 1996);  
IL (Zhou, 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
IN (Wojtowicz, 1982a; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
KY (Etnier, Bauer, & Zirkle, 2006; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
LA (Wojtowicz, 1982a; Moulton & Stewart, 1996);  
MA (Wojtowicz, 1982a; Moulton & Stewart, 1996);  
MI (Wojtowicz, 1982a; Moulton & Stewart, 1996; Houghton, Brandin, & Brakel, 2011;  
Houghton, 2015; Houghton, 2016;  
Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018);

Houghton & Lardner, 2020; Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Wojtowicz, 1982a; Moulton & Stewart, 1996);  
 NC (Wojtowicz, 1982a; Moulton & Stewart, 1996; Floyd, Morse, & Harris, 1997;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Wojtowicz, 1982a; Moulton & Stewart, 1996);  
 NJ (Wojtowicz, 1982a; Moulton & Stewart, 1996);  
 NY (Wojtowicz, 1982a; Moulton & Stewart, 1996; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (MacLean & MacLean, 1984; Armitage et al., 2011);  
 ON (Wojtowicz, 1982a; Moulton & Stewart, 1996);  
 PA (Wojtowicz, 1982a; Moulton & Stewart, 1996);  
 SC (Wojtowicz, 1982a; Floyd & Morse, 1993; Moulton & Stewart, 1996;  
 Floyd, Morse, & Harris, 1997; Oláh, Anderson, Beshkov, et al, 2019);  
 TN (Wojtowicz, 1982a; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998;  
 Etnier, Bauer, & Zirkle, 2006; Zhou, 2011);  
 TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);  
 VA (Banks, 1943; Wojtowicz, 1982a; Moulton & Stewart, 1996);  
 WI (Wojtowicz, 1982a; Hilsenhoff, 1995; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Wojtowicz, 1982a; Moulton & Stewart, 1996; Tarter & Floyd, 2016).  
*Pycnopsyche circularis* (Provancher, 1877), Platyphylax, Canada;  
 male wings, genitalia; female genitalia (Wojtowicz, 1982a);  
 Canada (Provancher, 1877);  
 CT (Nelson, 1987; Nelson & Downs, 1995);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Betten, 1950; Neves, 1979; Wojtowicz, 1982a);  
 MD (Wojtowicz, 1982a);  
 ME (Procter, 1946; Betten, 1950; Blickle & Morse, 1966; Wojtowicz, 1982);  
 MI (Houghton, 2020; Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Betten, 1950; Wojtowicz, 1982a);  
 NS (Wojtowicz, 1982a);  
 NY (Betten, 1950; Wojtowicz, 1982a; McCabe, 1986;  
 Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Masteller & Flint, 1979; Huryn & Foote, 1983; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 PA (Sykora, Walker, Vest, & Weaver, 1976; Masteller & Flint, 1979; Wojtowicz, 1982a;  
 Masteller & Flint, 1992);  
 QC (Robert, 1958; Roy & Harper, 1979; Wojtowicz, 1982a);  
 RI (Betten, 1950; Hunt, 2017);  
 TN (Etnier, 1973; Wojtowicz, 1982a; Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Wojtowicz, 1982a);  
 WI (Betten, 1950; Hilsenhoff, 1981; Wojtowicz, 1982a; Hilsenhoff, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Hill & Tarter, 1978; Wojtowicz, 1982a; Tarter, 1990; Tarter & Floyd, 2016).  
*Pycnopsyche conspersa* Banks, 1943, NH;  
 [Synonym of *P. scabripennis* according to Betten, 1950, but not  
 according to Wojtowicz, 1982];  
 male wings, genitalia; female genitalia (Wojtowicz, 1982a);  
 NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Banks 1943; Wojtowicz, 1982a);  
 NY (Wojtowicz, 1982a; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 ON (Wojtowicz, 1982a);



PA (Wojtowicz, 1982a; Masteller & Flint, 1992; Zhou, 2011);  
 QC (Zhou, 2011);  
 TN (Wojtowicz, 1982a; Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Wojtowicz, 1982a; Flint, Hoffman, & Parker, 2008).

*Pycnopsyche divergens* (Walker, 1852), *Limnephilus*, North America;  
 Halesus dan Sibley, 1926, NY (Betten & Mosely, 1940);  
 male wings, genitalia; female genitalia (Wojtowicz, 1982a);  
 North America (Walker, 1852);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 CO (Hagen, 1875, probably error by distribution of Wojtowicz, 1982);  
 CT (Britton, 1920; Nelson & Downs, 1995);  
 MA (Flint, 1960; Neves, 1979);  
 ME (Procter, 1946);  
 NC (Wray, 1950; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Morse & Blickle, 1957; Wojtowicz, 1982a);  
 NS (Banks, 1930);  
 NY (Betten, 1926; Sibley, 1926; Schmid, 1955; McCabe, 1986;  
 Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (McElravy, Arsuffi, & Foote, 1977; Hurn & Foote, 1983; MacLean & MacLean, 1984;  
 Usis & MacLean, 1986; Garono & MacLean, 1988; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 PA (Sykora, Walker, Vest, & Weaver, 1976; Masteller & Flint, 1979; Masteller & Flint, 1984;  
 Swegman, Walker, & Sykora, 1981; Masteller & Flint, 1992);  
 TN (Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Parker & Voshell, 1981; Flint, Hoffman, & Parker, 2008; Zhou, 2011);  
 VT (Wimmer, 1979; Bilger, 1986);  
 WV (Hill, Tarter, Watkins, & Nance, 1977; Hill & Tarter, 1978;  
 Tarter & Hill, 1979; Tarter & Hill, 1980; Tarter, 1990; Tarter & Floyd, 2016).

*Pycnopsyche flavata* (Banks, 1914), *Stenophylax*, NC;  
 larva, female genitalia (Wojtowicz, 1982b);  
 larval head, A1 tergum; male wings, genitalia; female genitalia  
 (Wojtowicz, 1982a);  
 male genitalia (Oláh, Anderson, Beshkov, et al, 2019);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 GA (Wojtowicz, 1982a, 1982b);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Banks, 1914; Wray, 1950; Wojtowicz, 1982a; Wojtowicz, 1982b;  
 Armitage & Tennesen, 1984; Morse, Hamilton, & Hoffman, 1989;  
 Floyd, Morse, & Harris, 1997; DeWalt, Jacobus, & McCafferty, 2007;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Zhou, 2011);  
 SC (Morse et al, 1979; Wojtowicz, 1982a; Wojtowicz, 1982b;  
 Morse, Hamilton, & Hoffman, 1989; Floyd, Morse, & Harris, 1997);  
 TN (Wojtowicz, 1982a; Wojtowicz, 1982b; Etnier, Baxter, Fraley, & Parker, 1998; Zhou, 2011);  
 VA (Parker & Voshell, 1981; Wojtowicz, 1982a, 1982b; Flint, Hoffman, & Parker, 2008;  
 Zhou, 2011; Oláh, Anderson, Beshkov, et al, 2019).

*Pycnopsyche gentilis* (McLachlan, 1871), *Stenophylax*, NH;  
 case (Mackay, 1972);  
 larval head, A1 tergum; male wings, genitalia; female genitalia (Wojtowicz, 1982a);  
 larva (Wojtowicz, 1982b);  
 male genitalia (Oláh, Anderson, Beshkov, et al, 2019);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Wojtowicz, 1982a; Harris & Lago, 1990; Harris, 1990; Harris, O'Neil, & Lago, 1991;  
 Hicks & Haynes, 2000a);  
 CT (Nelson, 1987; Nelson & Downs, 1995);

DE (Lake, 1984);  
 GA (Betten, 1934; Wojtowicz, 1982a);  
 KY (Resh, 1975; Wojtowicz, 1982a; Zhou, 2011;  
     Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Flint, 1960; Wojtowicz, 1982a, 1982b; Whitmore 2008);  
 MD (Wojtowicz, 1982a);  
 ME (Betten, 1934; Blickle & Morse, 1966; Wojtowicz, 1982a);  
 MS (Etnier, 2010);  
 NC (Betten, 1934; Banks, 1943; Woodall & Wallace, 1972; Wojtowicz, 1982a; Lenat, 1983;  
     Armitage & Tennesen, 1984; Huryn & Wallace, 1987; Wallace, 1988;  
     Morse, Hamilton, & Hoffman, 1989; Floyd, Morse, & Harris, 1997;  
     DeWalt, Jacobus, & McCafferty, 2007;  
     Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Zhou, 2011; Park, 2018);  
 NF (Marshall & Larson, 1982);  
 NH (McLachlan, 1871; Morse & Blickle, 1953; Wojtowicz, 1982a);  
 NJ (Betten, 1934; Wojtowicz, 1982a);  
 NS (Banks, 1943);  
 NY (Sibley, 1926; Wojtowicz, 1982a; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Wojtowicz, 1982a; Zhou, 2011; Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 PA (Betten, 1934; Sykora, Walker, Vest, & Weaver, 1976;  
     Swegman, Walker, & Sykora, 1981; Wojtowicz, 1982a; Wojtowicz, 1982b;  
     Masteller & Flint, 1984; Glazier & Gooch, 1987; Masteller & Flint, 1992;  
     Hoenig, Trevelline, Nuttle, & Porter, 2021);  
 PE (Dobrin & Giberson, 2003);  
 QC (Mackay, 1972; Roy & Harper, 1979; Williams & Williams, 1979; Wojtowicz, 1982a);  
 SC (Wojtowicz, 1982a; Morse, Hamilton, & Hoffman, 1989; Floyd & Morse, 1993;  
     Floyd, Morse, & Harris, 1997);  
 TN (Etnier & Schuster, 1979; Wojtowicz, 1982a; Etnier, Baxter, Fraley, & Parker, 1998;  
     DeWalt, Jacobus, & McCafferty, 2007; Zhou, 2011);  
 VA (Flint, 1960; Parker & Voshell, 1981; Wojtowicz, 1982a, 1982b;  
     Flint, Hoffman, & Parker, 2008; Zhou, 2011; Flint, 2011;  
     Oláh, Anderson, Beshkov, et al, 2019);  
 VT (Wimmer, 1979; Wojtowicz, 1982a);  
 WV (Hill & Tarter, 1978; Tarter & Hill, 1980; Wojtowicz, 1982a; Tarter, 1990;  
     Griffith & Perry, 1992; Tarter & Floyd, 2016).  
*Pycnopsyche guttifera* (Walker, 1852), Halesus, GA;  
*Pycnopsyche similis* Banks, 1907, MI (Ross, 1938);  
 male & female genitalia (Betten & Mosely, 1940; Betten, 1950);  
 larva (Flint, 1960);  
 photo of larva & case (Cummins, 1964);  
 male & female genitalia (Nimmo, 1971);  
 larva, case (Wiggins, 1977);  
 male genitalia (Marshall & Larson, 1982);  
 male wings, genitalia; female genitalia (Wojtowicz, 1982a);  
 male genitalia & photo of adult (Houghton, 2012);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 northern central & eastern North America, NF to NC to MT to WY (Wiggins, 1961);  
 AB (Wojtowicz, 1982a; Moulton & Stewart, 1996);  
 AL (Harris, Kondratieff, & Stark, 1996; Hicks & Haynes, 2000a);  
 AR (Wojtowicz, 1982a; Moulton & Stewart, 1996; Bowles, 2020;  
     Bowles, Cheri, Usrey, & Williams, 2020);  
 CO (Ruiter, 1990; Moulton & Stewart, 1996; Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 CT (Wojtowicz, 1982a; Nelson, 1987; Nelson & Downs, 1995; Moulton & Stewart, 1996);

DE (Lake, 1984; Moulton & Stewart, 1996);  
 FL (Gordon, 1984; Moulton & Stewart, 1996;  
     doubtful or erroneous according to Pescador, Rasmussen, & Harris, 1995, 2004);  
 GA (Walker, 1852; Wojtowicz, 1982a; Moulton & Stewart, 1996);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Betten, 1934; Wojtowicz, 1982a; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Wojtowicz, 1982a; Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
     DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Wojtowicz, 1982a; Moulton & Stewart, 1996  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Wojtowicz, 1982a; Floyd & Schuster, 1990; Moulton & Stewart, 1996;  
     Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Hagen, 1861; Betten, 1934; Wojtowicz, 1982a; Moulton & Stewart, 1996);  
 LB (Eidmann, 1935);  
 MA (Flint, 1960; Neves, 1979; Wojtowicz, 1982a; Moulton & Stewart, 1996; Whitmore 2008);  
 MB (Flannagan, 1978; Flannagan & Flannagan, 1982; Wojtowicz, 1982a;  
     Cobb, Flannagan, & Friesen, 1984; Moulton & Stewart, 1996; Zhou, 2011);  
 ME (Johnson, 1927; Procter, 1946; Blickle & Morse, 1966; Mingo & Gibbs, 1980; Bilger, 1986;  
     Moulton & Stewart, 1996; Huryn & Harris, 2000);  
 MI (Banks, 1907; Ross, 1938; Leonard & Leonard, 1949; Ellis, 1962; Cummins, 1964;  
     Wojtowicz, 1982a; Lawson & Klug, 1989; Moulton & Stewart, 1996; Ruiter, 2010;  
     Houghton, Brandin, & Brakel, 2011; Houghton, 2015; Houghton, 2016;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton & Lardner, 2020; Houghton, 2022;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Ross, 1941; Etnier, 1965; Lager, Johnson, Williams, & McCullough, 1979;  
     Wojtowicz, 1982a; MacLean, 1995; Moulton & Stewart, 1996; Monson, 1997;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Zhou, 2011; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Wojtowicz, 1982a; Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Ross, 1941; Flint, 1960; Wiggins, 1961; Newell, 1970; Roemhild, 1982; Wojtowicz, 1982a;  
     Moulton & Stewart, 1996);  
 NC (Betten, 1950; Wiggins, 1961; Penrose, Lenat, & Eagleson, 1982; Wojtowicz, 1982a;  
     Lenat, 1983; Armitage & Tennessen, 1984; Moulton & Stewart, 1996;  
     Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 ND (Harris, Lago, & Carlson, 1980; Wojtowicz, 1982a; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NE (Harris, Kondratieff, & Boyle, 2000;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Wiggins, 1961; Wojtowicz, 1982a; Moulton & Stewart, 1996;  
     Cordero, Sánchez-Ramírez, & Currie, 2017);  
 NH (Hagen, 1878; Morse & Blickle, 1953; Wojtowicz, 1982a; Moulton & Stewart, 1996);  
 NJ (Smith, 1900; Smith, 1910; Wojtowicz, 1982a; Moulton & Stewart, 1996);  
 NS (Banks, 1930; Wojtowicz, 1982a; Moulton & Stewart, 1996);  
 NY (Betten, 1901; Betten, 1926; Betten, 1934; Betten, 1950; Wojtowicz, 1982a; McCabe, 1986;  
     Moulton & Stewart, 1996; Zhou, 2011; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (McElravy, Arsuffi, & Foote, 1977; Wojtowicz, 1982a; Huryn & Foote, 1983;  
     Usis & MacLean, 1986; Garono & MacLean, 1988; Moulton & Stewart, 1996;  
     Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Ulmer, 1906; Rawson, 1930; Ricker, 1932; Wiggins, 1977; Wojtowicz, 1982a;

Williams, Tavares, & Bryant, 1987; Harper, 1989; Moulton & Stewart, 1996; Zhou, 2011; Cordero, Sánchez-Ramírez, & Currie, 2017);

PA (Hyland, 1948; Sykora, Walker, Vest, & Weaver, 1976; Swegman, Walker, & Sykora, 1981; Wojtowicz, 1982a; Masteller & Flint, 1992; Moulton & Stewart, 1996);

QC (Robert, 1958; Roy & Harper, 1975; Roy & Harper, 1979; Williams & Williams, 1979; Wojtowicz, 1982a; Harper, 1989; Moulton & Stewart, 1996);

SC (Wojtowicz, 1982a; Floyd & Morse, 1993; Moulton & Stewart, 1996);

SD (Ross, 1944; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

SK (Milne, 1943; Wojtowicz, 1982a; Moulton & Stewart, 1996);

TN (Döhler, 1915; Etnier & Schuster, 1979; Wojtowicz, 1982a; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998; Etnier, Bauer, & Zirkle, 2006);

VA (Parker & Voshell, 1981; Wojtowicz, 1982a; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2008);

VT (Wimmer, 1979; Moulton & Stewart, 1996);

WA (Ross, 1941; Moulton & Stewart, 1996);

WI (Flint, 1960; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Karl & Hilsenhoff, 1979; Wojtowicz, 1982a; Steven & Hilsenhoff, 1984; Hilsenhoff, 1995; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

WV (Hill & Tarter, 1978; Tarter & Hill, 1979; Wojtowicz, 1982a; Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016);

WY (Betten, 1950; Wiggins, 1961; Wojtowicz, 1982a; Ruiter & Lavigne, 1985; Moulton & Stewart, 1996).

Pycnopsyche indiana (Ross, 1938), Stenophylax, IN; male wings, genitalia; female genitalia (Wojtowicz, 1982a); male paramere (Oláh, Anderson, Beshkov, et al, 2019);

NC/SC (Unzicker, Resh, & Morse, 1982);

AL (Wojtowicz, 1982a; Harris, Lago, & O'Neil, 1984; Harris, 1987; Harris & Lago, 1990; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Hicks & Haynes, 2000a; Rasmussen & Denson, 2000);

AR (Moulton & Stewart, 1996; Rasmussen & Denson, 2000; Etnier, 2010);

DE (Lake, 1984; Moulton & Stewart, 1996; Rasmussen & Denson, 2000);

GA (Betten, 1950; Wojtowicz, 1982a; Moulton & Stewart, 1996; Rasmussen & Denson, 2000);

FL (Wojtowicz, 1982a; Pescador, Rasmussen, & Harris, 1995, 2004; Moulton & Stewart, 1996; Rasmussen & Denson, 2000; Rasmussen, 2004);

IL (Wojtowicz, 1982a; Moulton & Stewart, 1996; Rasmussen & Denson, 2000; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

IN (Ross, 1938; Wojtowicz, 1982a; Waltz & McCafferty, 1983; Moulton & Stewart, 1996; Rasmussen & Denson, 2000; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

KY (Wojtowicz, 1982a; Haag & Hill, 1983; Moulton & Stewart, 1996; Rasmussen & Denson, 2000; Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

LA (Holzenthal, Harris, & Lago, 1982; Wojtowicz, 1982a; Moulton & Stewart, 1996; Rasmussen & Denson, 2000);

MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MO (Moulton & Stewart, 1996; Rasmussen & Denson, 2000; Ferro & Sites, 2007; Etnier, 2010; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);

NY (McCabe, 1986; Moulton & Stewart, 1996; Rasmussen & Denson, 2000);

OH (Ross, 1938; Wojtowicz, 1982a; Huryn & Foote, 1983; Usis & MacLean, 1986; Moulton & Stewart, 1996; Rasmussen & Denson, 2000; Armitage et al., 2011;

Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 SC (Morse, Chapin, Herlong, & Harvey, 1980; Wojtowicz, 1982a; Moulton & Stewart, 1996;  
 Rasmussen & Denson, 2000; Oláh, Anderson, Beshkov, et al, 2019);  
 TN (Etnier & Schuster, 1979; Wojtowicz, 1982a; Moulton & Stewart, 1996;  
 Etnier, Baxter, Fraley, & Parker, 1998; Rasmussen & Denson, 2000);  
 TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997; Rasmussen & Denson, 2000);  
 VA (Wojtowicz, 1982a; Hoffman & Parker, 1997; Moulton & Stewart, 1996;  
 Rasmussen & Denson, 2000; Flint, Hoffman, & Parker, 2008);  
 WV (Hill & Tarter, 1978; Wojtowicz, 1982a; Tarter, 1990; Moulton & Stewart, 1996;  
 Rasmussen & Denson, 2000; Tarter & Floyd, 2016).  
 Pycnopsyche lepida (Hagen, 1861), Enoicyla, PA;  
 case, photo of larva in case (Cummins, 1964);  
 male & female genitalia (Betten, 1950);  
 male genitalia (Marshall & Larson, 1982; Houghton, 2012);  
 male wings, genitalia; female genitalia (Wojtowicz, 1982a);  
 male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 northeastern North America, NF to ON to MI to NC (Wiggins, 1961);  
 AL (Wojtowicz, 1982a; Harris et al, 1983; Harris, 1987; Harris & Lago, 1990;  
 Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Hicks & Haynes, 2000a);  
 AR (Bowles & Mathis, 1989; Moulton & Stewart, 1996; Etnier, 2010; Bowles, 2020;  
 Bowles, Cheri, Usrey, & Williams, 2020);  
 CT (Harris, O'Neil, & Lago, 1991; Nelson & Downs, 1995; Moulton & Stewart, 1996);  
 DE (Lake, 1984; Moulton & Stewart, 1996);  
 GA (Betten & Mosely, 1940; Betten, 1950; Wojtowicz, 1982a; Moulton & Stewart, 1996);  
 IA (Blinn, Ruiter, & Flint, 2009);  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1944; Betten, 1950; Wojtowicz, 1982a; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Wojtowicz, 1982a; Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Wojtowicz, 1982a; Phillippi & Schuster, 1987; Floyd & Schuster, 1990;  
 Moulton & Stewart, 1996; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Wojtowicz, 1982a; Moulton & Stewart, 1996);  
 MA (Neves, 1979; Wojtowicz, 1982a; Moulton & Stewart, 1996; Whitmore 2008);  
 MB (Wojtowicz, 1982a; Moulton & Stewart, 1996);  
 MD (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Flint, 2008);  
 ME (Blickle & Morse, 1966; Mingo & Gibbs, 1980; Wojtowicz, 1982a; Bilger, 1986;  
 Moulton & Stewart, 1996; Huryn & Harris, 2000);  
 MI (Ross, 1944; Betten, 1950; Wiggins, 1961; Ellis, 1962; Cummins, 1964; Wojtowicz, 1982a;  
 Moulton & Stewart, 1996; Ruiter, 2010; Houghton, Brandin, & Brakel, 2011;  
 Houghton, 2015; Houghton, 2016;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton & Lardner, 2020; Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Wojtowicz, 1982a; MacLean, 1995; Moulton & Stewart, 1996; Monson, 1997;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Zhou, 2011; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Moulton & Stewart, 1996; Ferro & Sites, 2007; Etnier, 2010; Bowles, 2020;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Holzenthal, Harris, & Lago, 1982; Wojtowicz, 1982a; Moulton & Stewart, 1996);  
 NB (Wojtowicz, 1982a);  
 NC (Banks, 1908; Brimley, 1938; Wray, 1950; Betten, 1950; Wiggins, 1961;  
 Penrose, Lenat, & Eagleson, 1982; Wojtowicz, 1982; Moulton & Stewart, 1996);

- Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 ND (Harris, Lago, & Carlson, 1980; Wojtowicz, 1982a; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Wiggins, 1961; Wojtowicz, 1982a; Moulton & Stewart, 1996);  
 NH (Morse & Blickle, 1953; Wojtowicz, 1982a; Moulton & Stewart, 1996);  
 NJ (Smith, 1890; Smith, 1900; Smith, 1910; Betten, 1950; Wojtowicz, 1982a;  
 Moulton & Stewart, 1996);  
 NS (Wojtowicz, 1982a; Moulton & Stewart, 1996);  
 NY (Sibley, 1926; Betten, 1950; Wojtowicz, 1982a; Moulton & Stewart, 1996;  
 Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (McElravy, Arsuffi, & Foote, 1977; Masteller & Flint, 1979; Wojtowicz, 1982a;  
 Huryn & Foote, 1983; MacLean & MacLean, 1984; Usis & MacLean, 1986;  
 Garono & MacLean, 1988; Moulton & Stewart, 1996; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Bowles & Mathis, 1992; Moulton & Stewart, 1996;  
 Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006);  
 ON (Betten & Mosely, 1940; Wiggins, 1961; Wojtowicz, 1982a; Harper, 1989;  
 Moulton & Stewart, 1996; Zhou, 2011);  
 PA (Hagen, 1861; Betten, 1950; Sykora, Walker, Vest, & Weaver, 1976;  
 Swegman, Walker, & Sykora, 1981; Wojtowicz, 1982a; Masteller & Flint, 1992;  
 Moulton & Stewart, 1996);  
 QC (Robert, 1958; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1975; Roy & Harper, 1979;  
 Williams & Williams, 1979; Wojtowicz, 1982a; Harper, 1989;  
 Moulton & Stewart, 1996);  
 SC (Wojtowicz, 1982a; Moulton & Stewart, 1996; Oláh, Anderson, Beshkov, et al, 2019);  
 SD (Zhou, 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 TN (Etnier & Schuster, 1979; Wojtowicz, 1982a; Moulton & Stewart, 1996;  
 Etnier, Baxter, Fraley, & Parker, 1998; Etnier, Bauer, & Zirkle, 2006; Zhou, 2011);  
 TX (Hall, 1950; Wojtowicz, 1982a; Moulton & Stewart, 1996;  
 Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);  
 VA (Ross, 1944; Betten, 1950; Parker & Voshell, 1981; Wojtowicz, 1982;  
 Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2008);  
 VT (Bilger, 1986; Moulton & Stewart, 1996);  
 WI (Ross, 1944; Betten, 1950; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973;  
 Hilsenhoff, 1975; Wojtowicz, 1982a; Steven & Hilsenhoff, 1984; Hilsenhoff, 1995;  
 Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Ross, 1944; Betten, 1950; Hill & Tarter, 1978; Tarter & Hill, 1979; Wojtowicz, 1982a;  
 Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016).
- Pycnopsyche letova Oláh, 2019, VA;  
 male genitalia (Oláh, Anderson, Beshkov, et al, 2019);  
 VA (Oláh, Anderson, Beshkov, et al, 2019).
- Pycnopsyche limbata (McLachlan, 1871), Stenophylax, NF;  
 male & female genitalia (Betten, 1950);  
 male genitalia (Marshall & Larson, 1982; Houghton, 2012);  
 male wings, genitalia; female genitalia (Wojtowicz, 1982a);  
 Canada (Banks, 1907);  
 northeastern North America (Wiggins, 1961);  
 MA (Neves, 1979; Wojtowicz, 1982a);  
 ME (Procter, 1946; Blickle & Morse, 1966; Wojtowicz, 1982a; Huryn & Harris, 2000);  
 MI (Houghton, 2020; Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (MacLean, 1995; Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001;  
 Houghton, 2012);

Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (McLachlan, 1871; Wiggins, 1961; Marshall & Larson, 1982; Wojtowicz, 1982a;  
 Cordero, Sánchez-Ramírez, & Currie, 2017);  
 NH (Banks, 1907; Wojtowicz, 1982a);  
 NS (Wojtowicz, 1982a);  
 NY (Sibley, 1926; Wojtowicz, 1982a; Myers, Kondratieff, Mihuc, & Ruiters, 2011);  
 ON (Betten, 1950; Wojtowicz, 1982a);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979; Wojtowicz, 1982a; Harper, 1989);  
 RI (Betten, 1950; Wojtowicz, 1982a; Hunt, 2017);  
 TN (Etnier, Baxter, Fraley, & Parker, 1998);  
 VT (Wimmer, 1979; Wojtowicz, 1982a);  
 WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Wojtowicz, 1982a;  
 Hilsenhoff, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022)).  
*Pycnopsyche luculenta* (Betten, 1934), *Stenophylax*, NY;  
 case (Mackay, 1972);  
 male wings, genitalia; female genitalia (Wojtowicz, 1982a);  
 male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Wojtowicz, 1982a; Harris, Lago, & O'Neil, 1984; Harris, 1987; Harris & Lago, 1990;  
 Harris, O'Neil, & Lago, 1991; Hicks & Haynes, 2000a);  
 CT (Nelson, 1987; Nelson & Downs, 1995);  
 DE (Lake, 1984);  
 GA (Flint, 1960; Wojtowicz, 1982a);  
 IN (Ross, 1944; Wojtowicz, 1982a; Waltz & McCafferty, 1983;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Wojtowicz, 1982a; Haag & Hill, 1983;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Betten, 1950; Neves, 1979; Wojtowicz, 1982a);  
 ME (Procter, 1946; Betten, 1950; Blickle & Morse, 1966; Wojtowicz, 1982);  
 MS (Holzenthal, Harris, & Lago, 1982; Wojtowicz, 1982a);  
 NC (Howell, 1939; Wray, 1950; Wojtowicz, 1982a; Armitage & Tennesen, 1984;  
 Morse, Hamilton, & Hoffman, 1989; Floyd, Morse, & Harris, 1997;  
 Lenat, Ruiters, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Betten, 1950; Wojtowicz, 1982a);  
 NJ (Wojtowicz, 1982a);  
 NY (Betten, 1934; Wojtowicz, 1982a; McCabe, 1986;  
 Myers, Kondratieff, Mihuc, & Ruiters, 2011);  
 OH (McElravy, Arsuffi, & Foote, 1977; Wojtowicz, 1982a; Huryn & Foote, 1983;  
 Garono & MacLean, 1988; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Flint, 1960);  
 PA (Betten, 1950; Sykora, Walker, Vest, & Weaver, 1976; Masteller & Flint, 1980;  
 Weaver & Sykora, 1981; Swegman, Walker, & Sykora, 1981; Wojtowicz, 1982a;  
 Wallace, Howard, Hays, & Cummins, 1992; Masteller & Flint, 1992);  
 QC (Mackay, 1972; Roy & Harper, 1979; Wojtowicz, 1982a);  
 SC (Flint, 1960; Morse, Chapin, Herlong & Harvey, 1980; Wojtowicz, 1982;  
 Morse, Hamilton, & Hoffman, 1989; Floyd & Morse, 1993;  
 Floyd, Morse, & Harris, 1997; Oláh, Anderson, Beshkov, et al, 2019);  
 TN (Flint, 1960; Edwards, 1966; Etnier & Schuster, 1979; Wojtowicz, 1982a;  
 Etnier, Baxter, Fraley, & Parker, 1998; Zhou, 2011);  
 VA (Flint, 1960; Parker & Voshell, 1981; Wojtowicz, 1982a; Roeding & Smock, 1989;  
 Flint, Hoffman, & Parker, 2008; Zhou, 2011);  
 VT (Wimmer, 1979; Wojtowicz, 1982a);

WI (Betten, 1950; Hilsenhoff, 1981; Hilsenhoff, 1995;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
WV (Hill & Tarter, 1978; Tarter, & Hill, 1979; Tarter & Hill, 1980; Wojtowicz, 1982;  
Tarter, 1990; Tarter & Floyd, 2016).

Pycnopsyche pani Wojtowicz & Flint, 2007, VA;  
NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
VA (Wojtowicz & Flint, 2007; Flint, Hoffman, & Parker, 2008).

Pycnopsyche rossi Betten, 1950, IL  
male wings, genitalia; female genitalia (Wojtowicz, 1982a);  
AR (Moulton & Stewart, 1996; Bowles, 2020; Bowles, Cheri, Usrey, & Williams, 2020);  
IL (Betten, 1950; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
IN (Wojtowicz, 1982a; Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MO (Moulton & Stewart, 1996; Ferro & Sites, 2007;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
OH (Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
TN (Etnier, Baxter, Fraley, & Parker, 1998; Wiggins, Etnier, Grant, Lambdin, & Mayor, 2001).

Pycnopsyche scabripennis (Rambur, 1842), *Limnephila*, locality unknown;  
Neuronia antica Walker, 1852, GA (Morse & Blickle, 1957);  
Pycnopsyche minima Banks, 1943, VA, NJ (Betten, 1950);  
Pycnopsyche perplexa Betten & Mosely, 1940, "North America"  
(Betten, 1950);  
case (Mackay, 1972);  
male genitalia (Marshall & Larson, 1982);  
male wings, genitalia; female genitalia (Wojtowicz, 1982a);  
male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
North America (Betten & Mosely, 1940);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
AK (Banks, 1943, doubtful identification by distribution of  
Wojtowicz, 1982a);  
AL (Harris, Lago, & O'Neil, 1984; Harris, 1987;  
Harris, O'Neil, & Lago, 1991; Harris & Lago, 1990;  
Frazer, Harris, & Ward, 1991; Hicks & Haynes, 2000a;  
Hicks & Haynes, 2000b; all doubtful identifications by  
distribution of Wojtowicz, 1982a);  
AR (Bowles & Mathis, 1989, doubtful identification by distribution  
of Wojtowicz, 1982a);  
CT (Britton, 1920; Nelson, 1987; Nelson & Downs, 1995);  
DE (Lake, 1984);  
FL (Harris, Lago, & Scheiring, 1982; Gordon, 1984; all doubtful  
identifications by distribution of Wojtowicz, 1982a);  
GA (Walker, 1852; Hagen, 1861; Betten, 1950; all doubtful  
identifications by distribution of Wojtowicz, 1982a;  
Oláh, Anderson, Beshkov, et al, 2019);  
IL (Flint, 1960, doubtful identification by distribution of Wojtowicz, 1982a);  
IN (Waltz & McCafferty, 1983, doubtful identification by  
distribution of Wojtowicz, 1982a);  
KY (Haag & Hill, 1983);  
LA (Holzenthal, Harris, & Lago, 1982, doubtful identification by  
distribution of Wojtowicz, 1982a);  
MA (Banks, 1943; Neves, 1979; Wojtowicz, 1982a; Whitmore 2008);



MD (Banks, 1904);  
 ME (Procter, 1946; Blickle & Morse, 1966; Bilger, 1986);  
 MI (Ross, 1944; Betten, 1950; Petersen & Cummins, 1974;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
 all doubtful identifications by distribution of Wojtowicz, 1982);  
 MN (Lager, Johnson, Williams, & McCullough, 1979, doubtful  
 identification by distribution of Wojtowicz, 1982a, and  
 doubtful identification according to  
 Houghton, Holzenthal, Monson, & MacLean, 2001);  
 MS (Holzenthal, Harris, & Lago, 1982, doubtful identification by  
 distribution of Wojtowicz, 1982a);  
 NC (Banks, 1908; Banks, 1943; Brimley, 1938; Howell, 1939;  
 Armitage & Tennesen, 1984;  
 Morse, Hamilton, & Hoffman, 1989;  
 Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 NF (Marshall & Larson, 1982, doubtful identification by  
 distribution of Wojtowicz, 1982a);  
 NH (Banks, 1943; Morse & Blickle, 1953; Wojtowicz, 1982a);  
 NJ (Smith, 1900; Smith, 1910; Ross, 1941; Banks, 1943);  
 NS (Banks, 1930; Banks, 1943, doubtful identification by  
 distribution of Wojtowicz, 1982a);  
 NY (Betten, 1901; Lloyd, 1921; Wojtowicz, 1982a; McCabe, 1986;  
 Myers, Kondratieff, Mihuc, & Ruitter, 2011);  
 OH (McElravy, Arsuffi, & Foote, 1977; Masteller & Flint, 1979; Huryn & Foote, 1983;  
 MacLean & MacLean, 1984; Garono & MacLean, 1988; Armitage et al., 2011);  
 ON (Rawson, 1930; Ricker, 1932; Wojtowicz, 1982a;  
 Singh, Smith, & Harrison, 1984a);  
 PA (Banks, 1943; Hyland, 1948;  
 Sykora, Walker, Vest, Weaver, 1976; Masteller & Flint, 1979;  
 Masteller & Flint, 1980; Masteller & Flint, 1984;  
 Swegman, Walker, & Sykora, 1981; Wojtowicz, 1982a;  
 Masteller & Flint, 1992; Hoenig, Trevelline, Nuttle, & Porter, 2021);  
 QC (Betten, 1950; Mackay, 1972; Roy & Harper, 1975;  
 Roy & Harper, 1979; Williams & Williams, 1979;  
 Wojtowicz, 1982a);  
 SC (Morse, Chapin, Herlong & Harvey, 1980;  
 Morse, Hamilton, & Hoffman, 1989; all doubtful  
 identifications by distribution of Wojtowicz, 1982a);  
 TN (Etnier & Schuster, 1979, refers to *Pycnopsyche antica* according to  
 Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Banks, 1904; Banks, 1943; Roeding & Smock, 1989; Parker & Voshell, 1981;  
 Wojtowicz, 1982a; Flint, Hoffman, & Parker, 2008; Flint, 2011);  
 VT (Wimmer, 1979; Bilger, 1986);  
 WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973;  
 Hilsenhoff, 1975; Steven & Hilsenhoff, 1984; all doubtful  
 identifications by distribution of Wojtowicz, 1982a);  
 WV (Ross, 1944; Hill & Tarter, 1978; Tarter, & Hill, 1979;  
 Tarter & Hill, 1980; Wojtowicz, 1982a; Tarter, 1990;  
 Griffith & Perry, 1992; Tarter & Floyd, 2016).  
*Pycnopsyche sonso* (Milne, 1935), *Stenophylax*, NC;  
 male wings, genitalia; female genitalia (Wojtowicz, 1982a);  
 male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 GA (Flint, 1960; Wojtowicz, 1982a);  
 NC (Carpenter, 1933; Milne, 1935; Wray, 1950; Wojtowicz, 1982a);

Armitage & Tennesen, 1984; Huryñ & Wallace, 1987;  
 Huryñ & Wallace, 1988; Morse, Hamilton, & Hoffman, 1989;  
 Floyd, Morse, & Harris, 1997; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 SC (Flint, 1960; Wojtowicz, 1982a; Morse, Hamilton, & Hoffman, 1989;  
 Floyd, Morse, & Harris, 1997; Oláh, Anderson, Beshkov, et al, 2019);  
 TN (Carpenter, 1933; Milne, 1935; Etnier & Schuster, 1979; Wojtowicz, 1982a;  
 Etnier, Baxter, Fraley, & Parker, 1998; Zhou, 2011);  
 VA (Parker & Voshell, 1981; not in VA according to Flint, Hoffman, & Parker, 2008;  
 Roble, Flint, & Harris, 2019).  
 Pycnopsyche subfasciata (Say, 1828), Phryganea, MA;  
 larva (Ross, 1944);  
 internal female genitalia (Unzicker, 1968);  
 male & female genitalia (Nimmo, 1971);  
 male sternum V, male & female genitalia (Schmid, 1980);  
 male wings, genitalia; female genitalia (Wojtowicz, 1982a);  
 male genitalia (Houghton, 2012);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AB (Nimmo, 1971; Wojtowicz, 1982a; Moulton & Stewart, 1996);  
 AR (Unzicker, Aggus, & Warren, 1970; Wojtowicz, 1982a; Bowles & Mathis, 1989;  
 Moulton & Stewart, 1996; Bowles, 2020; Bowles, Cheri, Usrey, & Williams, 2020);  
 CO (Herrmann, Ruiter, & Unzicker, 1986; Moulton & Stewart, 1996;  
 Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 DE (Lake, 1984; Moulton & Stewart, 1996);  
 GA (Wojtowicz, 1982a; Moulton & Stewart, 1996);  
 IA (Wojtowicz, 1982a; Blinn, Ruiter, & Flint, 2009;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1944; Harris, 1971; Nimmo, 1971; Wojtowicz, 1982a; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Wojtowicz, 1982a; Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Wojtowicz, 1982a; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Say, 1828; Betten, 1950; Nimmo, 1971; Wojtowicz, 1982a; Moulton & Stewart, 1996);  
 MB (Betten, 1950; Flannagan, 1978; Flannagan & Flannagan, 1982; Wojtowicz, 1982a;  
 Moulton & Stewart, 1996; Zhou, 2011);  
 MD (Banks, 1904; Wojtowicz, 1982a; Moulton & Stewart, 1996; Flint, 2008; Zhou, 2011);  
 MI (Ross, 1944; Leonard & Leonard, 1949; Nimmo, 1971; Wojtowicz, 1982;  
 Moulton & Stewart, 1996; Houghton, Brandin, & Brakel, 2011; Zhou, 2011;  
 Houghton, 2016;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Elkins, 1936; Etnier, 1965; Wojtowicz, 1982a; MacLean, 1995; Moulton & Stewart, 1996;  
 Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001; Zhou, 2011;  
 Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Wojtowicz, 1982a; Mathis & Bowles, 1992; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Wray, 1950; Carpenter, 1933, uncertain records according to Etnier & Schuster, 1979;  
 Moulton & Stewart, 1996; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Morse & Blicke, 1953; Wojtowicz, 1982a; Moulton & Stewart, 1996);  
 NJ (Smith, 1890; Smith, 1900; Smith, 1910; Wojtowicz, 1982a; Moulton & Stewart, 1996);  
 NT (Hagen, 1861; Moulton & Stewart, 1996);

- NY (Hagen 1873; Betten 1934; Wojtowicz, 1982a; Moulton & Stewart, 1996; Myers, Kondratieff, Mihuc, & Ruiter, 2011);
- OH (Wojtowicz, 1982a; Garono & MacLean, 1988; Moulton & Stewart, 1996; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- OK (Bowles & Mathis, 1992; Moulton & Stewart, 1996);
- ON (Betten 1950; Wojtowicz, 1982a; Moulton & Stewart, 1996; Zhou, 2011);
- PA (Walker, 1852; Say, 1859; Hagen, 1861; Wojtowicz, 1982a; Masteller & Flint, 1992; Moulton & Stewart, 1996);
- QC (Roy & Harper, 1975; Roy & Harper, 1979; Wojtowicz, 1982a; Moulton & Stewart, 1996);
- SC (Wojtowicz, 1982a; Moulton & Stewart, 1996);
- SD (Ross, 1944; Wojtowicz, 1982a; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- TN (Etnier, Baxter, Fraley, & Parker, 1998);
- VA (Wojtowicz, 1982a; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2008; Zhou, 2011; Flint, 2011);
- VT (Wimmer, 1979; Moulton & Stewart, 1996);
- WI (Vorhies, 1909; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Wojtowicz, 1982a; Hilsenhoff, 1995; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- WV (Betten, 1950; Hill & Tarter, 1978; Tarter & Hill, 1979; Wojtowicz, 1982a; Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016);
- WY (Betten, 1950; Wojtowicz, 1982a; Ruiter & Lavigne, 1985; Moulton & Stewart, 1996).
- Pycnopsyche telea* Oláh, 2019, SC;  
male genitalia (Oláh, Anderson, Beshkov, et al, 2019);  
SC (Oláh, Anderson, Beshkov, et al, 2019).
- Pycnopsyche virginica* (Banks, 1900), Potamorites, VA;  
male genitalia (Flint, 1966);  
male wings, genitalia; female genitalia (Wojtowicz, 1982a);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
AL (Wojtowicz, 1982a; Harris & Lago, 1990; Harris, 1990; Harris, O'Neil, & Lago, 1991);  
KY (Etnier, Bauer, & Zirkle, 2006; Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NC (Flint, 1966; Wojtowicz, 1982a; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
SC (Flint, 1966; Wojtowicz, 1982a);  
TN (Etnier, Baxter, Fraley, & Parker, 1998; Etnier, Bauer, & Zirkle, 2006);  
VA (Banks, 1900; Wojtowicz, 1982a; Hoffman & Parker, 1997; Flint, Hoffman, & Parker, 2008).
- Sphagnophylax meiops* Wiggins & Winchester, 1984, NT;  
larva, pupa (Winchester, Wiggins, and Ring, 1993);  
male paramere (Oláh, Anderson, Beshkov, et al, 2019);  
NT (Wiggins & Winchester, 1984; Nimmo, 1986; Winchester, Wiggins, & Ring, 1993; Oláh, Anderson, Beshkov, et al, 2019);  
YT (Wiggins & Winchester, 1984; Wiggins & Parker, 1997).

Molannidae (2 genera, 6 species) —Hood Caddisflies

- Molanna blenda* Sibley, 1926, NY;  
larval head, foreleg (Sherberger & Wallace, 1971);  
adult prothorax (Wimmer, 1979);  
female genitalia (Roy & Harper, 1980);  
mesotibia, male & female genitalia (Marshall & Larson, 1982);  
wings, male & female genitalia (Schmid, 1983);  
male genitalia (Houghton, 2012);  
AL (Harris, 1987; Harris & Lago, 1990; Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Hicks & Haynes, 2000a;

Harris & O'Neil, 2015;

AR (Bowles & Mathis, 1989; Moulton & Stewart, 1996; Bowles, 2020;  
Bowles, Cheri, Usrey, & Williams, 2020);

CT (Nelson, 1987; Downs & Godwin, 1987; Nelson & Downs, 1995; Moulton & Stewart, 1996);

DE (Lake, 1984; Moulton & Stewart, 1996);

FL (Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004;  
Denson, Rasmussen, & Harris, 2016);

GA (Sherberger & Wallace, 1971; Moulton & Stewart, 1996);

IL (Ross, 1944; Schmid, 1983; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

KY (Phillippi & Schuster, 1987; Moulton & Stewart, 1996; Houp, 1999; Zhou, 2011;  
Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

LA (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996);

MA (Neves, 1979; Moulton & Stewart, 1996);

MI (Leonard & Leonard, 1949; Moulton & Stewart, 1996; Houghton, Brandin, & Brakel, 2011;  
DeWalt & South, 2015; Houghton, 2015; Houghton, 2016;  
Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
Houghton & Lardner, 2020; Houghton, 2022;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MN (Etnier, 1968; Lager, Johnson, Williams, & McCullough, 1979; MacLean, 1995;  
Moulton & Stewart, 1996; Houghton, Holzenthal, Monson, & MacLean, 2001;  
Zhou, 2011; Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007; Bowles, 2020;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MS (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996);

NC (Lenat, 1983; Huryn & Wallace, 1988; Morse, Hamilton, & Hoffman, 1989;  
Moulton & Stewart, 1996; Floyd, Morse, & Harris, 1997;  
Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);

NF (Marshall & Larson, 1982; Moulton & Stewart, 1996);

NH (Morse & Blicke, 1953; Moulton & Stewart, 1996);

NJ (Mendez, Spagna, Holzenthal, & Houghton, 2019);

NY (Sibley, 1926; Schmid, 1983; Moulton & Stewart, 1996;  
Myers, Kondratieff, Mihuc, & Ruiter, 2011);

OH (McElravy, Arsuffi, & Foote, 1977; Huryn & Foote, 1983; MacLean & MacLean, 1984;  
Garono & MacLean, 1988; Usis & Foote, 1989; Moulton & Stewart, 1996;  
Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

ON (Ricker, 1934; Schmid, 1983; Singh, Smith, & Harrison, 1984a; Moulton & Stewart, 1996);

PA (Masteller & Flint, 1979; Swegman, Walker, & Sykora, 1981; Masteller & Flint, 1992;  
Moulton & Stewart, 1996);

QC (Roy & Harper, 1979; Roy & Harper, 1980; Schmid, 1983; Harper, 1989;  
Moulton & Stewart, 1996);

SC (Morse, Chapin, Herlong & Harvey, 1980; Floyd & Morse, 1993; Moulton & Stewart, 1996;  
Floyd, Morse, & Harris, 1997; Zhou, 2011);

TN (Edwards, 1966; Sherberger & Wallace, 1971; Etnier & Schuster, 1979;  
Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998;  
DeWalt & Heinold, 2005);

VA (Parker & Voshell, 1981; Schmid, 1983; Hoffman & Parker, 1997; Moulton & Stewart, 1996;  
Flint, Hoffman, & Parker, 2008; Zhou, 2011; Flint, 2011);

VT (Wimmer, 1979; Bilger, 1986; Moulton & Stewart, 1996);

WI (Ross, 1944; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;

- Schmid, 1983; Steven & Hilsenhoff, 1984; Hilsenhoff, 1995; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022); WV (Tarter & Hill, 1979; Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016).
- ? *Molanna cinerea* Hagen, 1861, Canada;  
 [nomen dubium] known from only the mutilated female lectotype, diagnostic characters are unclear (Ross, 1938; Schmid, 1983);  
 Canada (Hagen, 1861; Ross, 1938);  
 IL (Ross, 1944);  
 MD (Banks, 1904; Ulmer, 1907);  
 ME (Hagen, 1873, doubtful identification);  
 MI (Needham, 1908);  
 NC (Brimley, 1938; Wray, 1950);  
 NH (Morse & Blickle, 1953);  
 NY (Needham, 1905; Betten, 1926; previous records erroneous, not in NY according to Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OK (Ross, 1944);  
 ON (Ricker, 1934; Ross, 1944; Schmid, 1983);  
 QC (Williams & Williams, 1979);  
 WI (Vorhies, 1909).
- Molanna flavicornis* Banks, 1914, MB;  
 male head, pronotum, mesonotum (Wiggins, 1968);  
 larva, case (Wiggins, 1977);  
 female genitalia (Roy & Harper, 1980);  
 head, maxillary palp, male & female wings, A5 gills & gland, male & female genitalia (Schmid, 1980; Schmid, 1983);  
 male genitalia (Houghton, 2012);  
 photos of larva, abdomen apex, case (Ruiter, Boyle, & Zhou, 2013);  
 NS to BC & CO to NY (Schmid, 1983);  
 Rocky Mountains, Hudson Bay (Neave, 1933);  
 AB (Richardson & Clifford, 1986);  
 BC (Ross & Spencer, 1952; Wiggins, 1977; Nimmo & Scudder, 1978; Schmid, 1983; Flannagan & MacDoanld, 1987);  
 CO (Dodds & Hisaw, 1925; Betten, 1934; Wiggins, 1977; Herrmann, Ruiter, & Unzicker, 1986; Ruiter, 1996; Zuellig, Heinold, Kondratieff, & Ruiter, 2012; Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
 MB (Banks, 1914; Neave, 1933; Wiggins, 1977; Lehmkuhl & Kerst, 1979; Flannagan & Cobb, 1981; Flannagan & Flannagan, 1982; Resh, Rosenberg, & Wiens, 1983; Flannagan & MacDonald, 1987; Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruiter, Boyle, & Zhou, 2013; Chatila-Amos, 2021);  
 MI (Ross, 1944; Leonard & Leonard, 1949; Davis, Hudson, & Armitage, 1991; DeWalt & South, 2015; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018; Houghton, 2022; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Denning, 1937; Etnier, 1965; Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Newell, 1970; Newell & Potter, 1973; Roemhild, 1982);  
 ND (Harris, Lago, & Carlson, 1980; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NS (Schmid, 1983);  
 NT (Nimmo, 1986);  
 NY (Betten, 1926; Betten, 1934; Schmid, 1983);  
 ON (Harper, 1989);

PA (Masteller & Flint, 1992);  
 QC (Ross, 1944; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1979; Roy & Harper, 1980;  
     Flannagan & MacDonald, 1987; Harper, 1989);  
 SD (Ross, 1944;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 SK (Milne, 1943; Rawson & Moore, 1944; Flannagan & MacDonald, 1987);  
 WI (Betten, 1934; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
     Hilsenhoff, 1995;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WY (Ruiter & Lavigne, 1985);  
 YT (Wiggins & Parker, 1997).  
 Molanna tryphena Betten, 1934, NY;  
     larva, case (Sherberger & Wallace, 1971);  
     female genitalia (Roy & Harper, 1980);  
     male & female genitalia (Schmid, 1983);  
     larva, pupa, case, male genitalia (Gupta & Stewart, 2000);  
     male genitalia (Houghton, 2012);  
 AL (Harris, 1987; Harris & Lago, 1990; Harris, O'Neil, & Lago, 1991; Hicks & Haynes, 2000a;  
     Hicks & Haynes, 2000b; Harris & O'Neil, 2015);  
 CT (Nelson & Downs, 1995);  
 DE (Lake, 1984);  
 FL (Harris, Lago, & Scheiring, 1982; Scheiring, 1985;  
     Pescador, Rasmussen, & Harris, 1995, 2004; Mattson, Epler, & Hein, 1995;  
     Rasmussen, 2004; Denson, Rasmussen, & Harris, 2016);  
 GA (Betten & Mosely, 1940; Sherberger & Wallace, 1971; Schmid, 1983);  
 IN (DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Holzenthal, Harris, & Lago, 1982);  
 MA (Neves, 1979);  
 ME (Blickle & Morse, 1966; Bilger, 1986; Huryn & Harris, 2000);  
 MI (Ross, 1944; Leonard & Leonard, 1949; Ellis, 1962; Petersen & Cummins, 1974;  
     Schmid, 1983; Houghton, Brandin, & Brakel, 2011; Houghton, 2016;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton, 2022;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1968; MacLean, 1995; Monson, 1997;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Holzenthal, Harris, & Lago, 1982);  
 NC (Morse, Hamilton & Hoffman, 1989; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Morse & Blickle, 1953);  
 NY (Betten, 1934; Schmid, 1983; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (McElravy, Arsuffi, & Foote, 1977; Huryn & Foote, 1983; Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 PA (Hyland, 1948; Schmid, 1983; Masteller & Flint, 1992);  
 QC (Robert, 1958; Roy & Harper, 1975; Roy & Harper, 1979; Roy & Harper, 1980;  
     Schmid, 1983; Harper, 1989);  
 SC (Morse, Chapin, Herlong & Harvey, 1980);  
 TN (Sherberger & Wallace, 1971; Etnier & Schuster, 1979;  
     Etnier, Baxter, Fraley, & Parker, 1998);  
 TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997; Gupta & Stewart, 2000);  
 VA (Parker & Voshell, 1981; Flint, Hoffman, & Parker, 2008);  
 VT (Bilger, 1986);

WI (Ross, 1944; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Schmid, 1983; Hilsenhoff, 1995; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).

Molanna ulmerina Navás, 1934, MA;  
Molanna musetta Betten, 1934, NY (Schuster, 1979);  
female genitalia (Roy & Harper, 1980);  
hindwing, male & female genitalia (Schmid, 1983);  
AL (Harris, 1987; Harris & Lago, 1990; Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Hicks & Haynes, 2000a; Harris & O'Neil, 2015);  
AR (Bowles & Mathis, 1989; Moulton & Stewart, 1996; Etnier, 2010);  
CT (Harris, O'Neil, & Lago, 1991; Nelson & Downs, 1995; Moulton & Stewart, 1996);  
DE (Lake, 1984; Moulton & Stewart, 1996);  
FL (Harris, Lago, & Scheiring, 1982; Pescador, Rasmussen, & Harris, 1995, 2004; Moulton & Stewart, 1996; Rasmussen, 2004; Denson, Rasmussen, & Harris, 2016);  
IL (Etnier, 1973; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
LA (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996);  
MA (Navás, 1934; Neves, 1979; Moulton & Stewart, 1996);  
MD (Schmid, 1983; Moulton & Stewart, 1996);  
ME (Blickle & Morse, 1966; Mingo & Gibbs, 1980; Schmid, 1983; Bilger, 1986; Moulton & Stewart, 1996; Hury & Harris, 2000);  
MI (Harris, O'Neil, & Lago, 1991; Davis, Hudson, & Armitage, 1991; Moulton & Stewart, 1996; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MN (Harris, O'Neil, & Lago, 1991, doubtful identification according to Houghton, Holzenthal, Monson, & MacLean, 2001; Moulton & Stewart, 1996);  
MO (Moulton & Stewart, 1996; Etnier, 2010; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MS (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996);  
NC (Schmid, 1983; Moulton & Stewart, 1996; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
NH (Etnier, 1973; Moulton & Stewart, 1996);  
NJ (Zhou, 2011);  
NS (Ruiter, 2000);  
NY (Betten, 1934; Etnier, 1973; Schmid, 1983; Moulton & Stewart, 1996; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
OH (Hury & Foote, 1981; Hury & Foote, 1983; Moulton & Stewart, 1996; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
OK (Etnier, 1973; Schmid, 1983; Bowles & Mathis, 1992; Moulton & Stewart, 1996);  
ON (Etnier, 1973; Schmid, 1983; Harper, 1989; Moulton & Stewart, 1996);  
PA (Harris, O'Neil, & Lago, 1991; Masteller & Flint, 1992; Moulton & Stewart, 1996);  
QC (Nimmo, 1966; Corbet, Schmid, & Augustin, 1966; Etnier, 1973; Roy & Harper, 1975; Roy & Harper, 1979; Roy & Harper, 1980; Schmid, 1983; Harper, 1989; Moulton & Stewart, 1996);  
SC (Zhou, 2011; Biondi, 2011);  
TN (Etnier, 1973; Etnier & Schuster, 1979; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005; DeWalt, Jacobus, & McCafferty, 2007);

TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);  
 VA (Parker & Voshell, 1981; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2008; Zhou, 2011; Flint, 2011);  
 VT (Wimmer, 1979; Moulton & Stewart, 1996);  
 WI (Schmid, 1983; Hilsenhoff, 1995; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Griffith & Perry, 1992; Tarter & Floyd, 2016).

Molanna uniophila Vorhies, 1909, WI;  
 internal female genitalia (Unzicker, 1968);  
 larval foreleg, case (Sherberger & Wallace, 1971);  
 female genitalia (Roy & Harper, 1980);  
 male genitalia (Marshall & Larson, 1982);  
 hindwing, male & female genitalia (Schmid, 1983);  
 male genitalia & photo of adult (Houghton, 2012);  
 antennal surfaces and sensilla (Melnitsky & Ivanov, 2016);  
 AR (Unzicker, Aggus & Warren, 1970; Bowles & Mathis, 1989; Moulton & Stewart, 1996; Bowles, Cheri, Usrey, & Williams, 2020);  
 IL (Betten, 1934; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Neves, 1979; Bilger, 1986; Moulton & Stewart, 1996);  
 MB (Flannagan & Flannagan, 1982; Moulton & Stewart, 1996);  
 ME (Ross, 1941; Schmid, 1983; Moulton & Stewart, 1996; Huryn & Harris, 2000);  
 MI (Betten, 1934; Moffet, 1943; Leonard & Leonard, 1949; Ellis, 1962; Schmid, 1983; Moulton & Stewart, 1996; Houghton, Brandin, & Brakel, 2011; Houghton, 2016; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018; Houghton & Lardner, 2020; Houghton, 2022; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Ross, 1944; Etnier, 1965; Schmid, 1983; MacLean, 1995; Moulton & Stewart, 1996; Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2004a; Houghton & Holzenthal, 2010; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NB (Ross, 1944; Schmid, 1983; Moulton & Stewart, 1996);  
 NC (Wray, 1950; Moulton & Stewart, 1996; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NF (Marshall & Larson, 1982; Moulton & Stewart, 1996);  
 NH (Morse & Blickle, 1953; Moulton & Stewart, 1996);  
 NY (Betten, 1934; Schmid, 1983; Moulton & Stewart, 1996; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Marshall, 1939; Marshall, 1983; Ross, 1944; Schmid, 1983; Moulton & Stewart, 1996; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Moulton & Stewart, 1996);  
 ON (Schmid, 1983; Harper, 1989; Moulton & Stewart, 1996);  
 PA (Ross, 1944; Schmid, 1983; Masteller & Flint, 1992; Moulton & Stewart, 1996);  
 QC (Ross, 1944; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1979; Roy & Harper, 1980; Schmid, 1983; Harper, 1989; Moulton & Stewart, 1996);  
 TN (Edwards, 1966, uncertain record according to Etnier & Schuster, 1979, and Etnier, Baxter, Fraley, & Parker, 1998; Moulton & Stewart, 1996);  
 VA (Sherberger & Wallace, 1971; Parker & Voshell, 1981; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2008);  
 VT (Bilger, 1986; Moulton & Stewart, 1996);  
 WI (Vorhies, 1909; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Schmid, 1983; Hilsenhoff, 1995; Moulton & Stewart, 1996);



Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).

*Molannodes tinctus* (Zetterstedt, 1840), Phryganea, Lapland;  
    *Molannodes bergi* Ross, 1952, AK (Wiggins, 1968; Schmid, 1983);  
    *Molannodes steinii* McLachlan, 1872, Russia (a variety of  
        *Molannodes zelleri* according to J Sahlberg, 1894);  
    *Molannodes zelleri* McLachlan, 1866, Germany (Fischer, 1964);  
    pronotum, mesonotum (Wiggins, 1968);  
    larva, case (Lepneva, 1966/71; Wiggins, 1977);  
    male prothoracic tubercles, wings, male & female genitalia  
        (Schmid, 1980; Schmid, 1983);  
    male & female genitalia (Tobias & Tobias, 1981);  
    antennal surfaces and sensilla (Melnitsky & Ivanov, 2016);  
    AK (Wiggins, 1977; Schmid, 1980; Schmid, 1983; Kendrick & Huryn, 2014);  
    NT (Schmid, 1980; Schmid, 1983; Nimmo, 1986);  
    YT (Denning, 1954; Wiggins, 1977; Schmid, 1983;  
        Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997);  
    Lapland (Zetterstedt, 1840);  
    Europe (Tobias & Tobias, 1981);  
    nordic and circumboreal (Schmid, 1983);  
    Palearctic Region (Lepneva, 1966/71).

Odontoceridae (6 genera, 13 species) —Mortarjoint Caddisflies

*Marilia flexuosa* Ulmer, 1905, TX, Brazil;  
        *Anisocentropus fusca* Banks, 1905, AZ (Betten, 1934; Milne, 1936);  
        internal female genitalia (Unzicker, 1968);  
        larva, case (Wiggins, 1977);  
        male & female heads, midleg, male & female wings, male & female  
            genitalia (Schmid, 1980; Schmid, 1983);  
        southwestern United States (with a tentative record from southern  
            Ontario, Canada) south to Northern Argentina (Flint, 1991);  
    AR (Unzicker, Aggus, & Warren, 1970; Wiggins, 1977; Schmid, 1983; Bowles & Mathis, 1989;  
        Moulton & Stewart, 1996; Bowles, Cheri, Usrey, & Williams, 2020);  
    AZ (Banks, 1905; Ross, 1951; Wiggins, 1977; Schmid, 1983; Moulton & Stewart, 1996;  
        Houghton, 2001; Blinn & Ruiter, 2006);  
    CA (Wiggins, 1977; Schmid, 1983; McElravy & Resh, 1987; Moulton & Stewart, 1996;  
        Resh & Mendez, 2022);  
    IN (Ruiter, 2000;  
        Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
    MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007; Bowles, 2020;  
        Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
    NM (Waltz & McCafferty, 1983; Moulton & Stewart, 1996);  
    NV (Ruiter, Baumann, & Flint, 2014);  
    OK (Moulton & Stewart, 1996);  
    ON (Wiggins, 1977; Schmid, 1980; Schmid, 1983);  
    TX (Ulmer, 1905; Ross, 1951; Wiggins, 1977; Schmid, 1983; Moulton & Stewart, 1996;  
        Moulton & Stewart, 1997; Bowles, Tiemann, & Easley, 2007; Burk & Kennedy, 2013);  
    VT (Bilger, 1986; Moulton & Stewart, 1996);  
    Mexico (Ross, 1951; Flint, 1967; Schmid, 1983; Moulton & Stewart, 1996);  
    Brazil (Ulmer, 1905; Ross, 1951; Bueno-Soria & Flint, 1978; Schmid, 1983);  
    Panama, Peru, Argentina (Bueno-Soria & Flint, 1978);  
    South America (Moulton & Stewart, 1996).  
    *Marilia nobscia* Milne, 1936, TX;  
        female vaginal apparatus (Ruiter & Blinn, 2009);  
        AZ (Moulton, Stewart, & Young, 1994; Blinn & Ruiter, 2006);

TX (Milne, 1936; Ross, 1951; Wiggins, 1977; Moulton & Stewart, 1997);  
Mexico (Ross, 1951; Bueno-Soria & Flint, 1978).

*Namamyia plutonis* Banks, 1905, CA;  
male & female wings, male & female genitalia (Schmid, 1968);  
larva, case (Wiggins, 1977, probably this species);  
CA (Banks, 1905; Denning, 1956; Wiggins, 1977; Resh & Mendez, 2022);  
OR (Schmid, 1968; Anderson, 1976; Wiggins, 1977; Anderson, Cooper, & Denning, 1982).

*Nerophilus californicus* (Hagen, 1861), Silo, CA;  
*Nerophilus oregonensis* Banks, 1899, OR (Milne, 1936);  
larva, case (Wiggins, 1977);  
photos of larvae scavenging an American bullfrog (Surber & Wilcox, 2020);  
CA (Hagen, 1861; Denning, 1956; Wiggins, 1977; McElravy & Resh, 1987;  
Surber & Wilcox, 2020; Resh & Mendez, 2022);  
OR (Banks, 1899; Ulmer, 1907; Anderson & Wold, 1972;  
Anderson, 1976; Wiggins, 1977; Wisseman & Anderson, 1984);  
QC (Provancher, 1871, probably a misidentification, Roy & Harper, 1979).

*Parthina linea* Denning, 1954, CA;  
male genitalia (Denning, 1973);  
photos of larvae in cases (Anderson, 1976);  
larva, case (Wiggins, 1977);  
AZ (Denning, 1973; Wiggins, 1977; Blinn & Ruitter, 2006);  
CA (Denning, 1954; Erman, 1984; Erman, 1987; Wiggins, 1977; Wiggins, 1987;  
Erman & Erman, 1990; Erman, 1998; Resh & Mendez, 2022);  
OR (Denning, 1954; Anderson, 1976; Wiggins, 1977;  
Anderson, Cooper, & Denning, 1982; Wiggins, 1987)  
WA (Blinn & Ruitter, 2013).

*Parthina vierra* Denning, 1973, CA;  
CA (Denning, 1973; Wiggins, 1977; McElravy & Resh, 1987; Resh & Mendez, 2022).

*Pseudogoera singularis* Carpenter, 1933, NC;  
male genitalia (Flint, 1966);  
larva, pupa, case, female genitalia, male and female forewings  
(Wallace & Ross, 1971);  
larva, case (Wiggins, 1977);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
GA (Wallace & Ross, 1971; Wiggins, 1977);  
NC (Carpenter, 1933; Wallace & Ross, 1971; Woodall & Wallace, 1972; Wiggins, 1977;  
Huryn & Wallace, 1987; Huryn & Wallace, 1988;  
Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010; Zhou, 2011);  
SC (Wallace & Ross, 1971; Wiggins, 1977; Morse et al, 1979;  
Floyd & Morse, 1993; Zhou, 2011);  
TN (Etnier & Schuster, 1979; Etnier, Baxter, Fraley, & Parker, 1998).

*Psilotreta amera* Ross, 1939, TN;  
larval head & thorax, male head, male & female genitalia (Parker & Wiggins, 1987);  
GA (Parker & Wiggins, 1987);  
NC (Huryn & Wallace, 1987; Huryn & Wallace, 1988;  
Parker & Wiggins, 1987; DeWalt, Jacobus, & McCafferty, 2007;  
Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
SC (Parker & Wiggins, 1987);  
TN (Ross, 1939; Parker & Wiggins, 1987; Etnier, Baxter, Fraley, & Parker, 1998;  
DeWalt & Heinold, 2005; Zhou, 2011).

*Psilotreta frontalis* Banks, 1899, NY;  
 Heteroplectron gameta Ross, 1939, NC (Ross, 1944);  
*Psilotreta hansonii* Denning, 1948, MA (probably a synonym, Parker & Wiggins, 1987);  
 male genitalia (Ross, 1944);  
 maxillary palp, male genitalia (Schmid, 1983);  
 larval head & thorax, male head & maxillary palp, male & female  
 genitalia (Parker & Wiggins, 1987);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris et al, 1983; Harris, 1987; Harris & Lago, 1990;  
 Harris, O'Neil, & Lago, 1991; Hicks & Haynes, 2000a);  
 CT (Parker & Wiggins, 1987; Nelson & Downs, 1995);  
 DE (Lake, 1984; Parker & Wiggins, 1985);  
 FL (Gordon, 1984; Parker & Wiggins, 1987;  
 Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004;  
 Denson, Rasmussen, & Harris, 2016);  
 GA (Parker & Wiggins, 1987);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Denning, 1948; Neves, 1979; Parker & Wiggins, 1987; Whitmore 2008);  
 ME (Harris, O'Neil, & Lago, 1991);  
 MS (Etnier, 2010);  
 NB (Parker & Wiggins, 1987);  
 NC (Betten, 1934; Ross, 1939; Schmid, 1983; Armitage & Tennesen, 1984;  
 Parker & Wiggins, 1987; Floyd, Morse, & Harris, 1997;  
 Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010; Zhou, 2011);  
 NF (Marshall & Larson, 1982; Parker & Wiggins, 1987);  
 NH (Morse & Blickle, 1953; Schmid, 1983; Parker & Wiggins, 1987);  
 NJ (Schmid, 1983; Parker & Wiggins, 1987);  
 NS (Schmid, 1983);  
 NY (Banks, 1899; Schmid, 1983; Parker & Wiggins, 1987; Zhou, 2011;  
 Myers, Kondratieff, Mihuc, & Ruitter, 2011);  
 PA (Hyland, 1948; Schmid, 1983; Parker & Wiggins, 1987; Masteller & Flint, 1992);  
 QC (Robert, 1958; Roy & Harper, 1975; Roy & Harper, 1979; Schmid, 1983;  
 Parker & Wiggins, 1987);  
 SC (Morse et al, 1980; Parker & Wiggins, 1987; Morse, Hamilton, & Hoffman, 1989;  
 Floyd & Morse, 1993; Floyd, Morse, & Harris, 1997; Zhou, 2011);  
 TN (Edwards, 1966; Etnier & Schuster, 1979; Parker & Wiggins, 1987;  
 Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Parker & Voshell, 1981; Parker & Wiggins, 1987; Flint, Hoffman, & Parker, 2008;  
 Zhou, 2011; Flint, 2011);  
 VT (Wimmer, 1979; Parker & Wiggins, 1987).  
*Psilotreta indecisa* (Walker, 1852), Goera, Canada;  
 Heteroplectron borealis Provancher, 1877, Canada (Schmid, 1983; Parker & Wiggins, 1987);  
 head, maxillary palp, male & female wings, male & female genitalia  
 (Schmid, 1980; Schmid, 1983);  
 larval head & thorax, pupal anal processes, male head, wings, male  
 & female genitalia (Parker & Wiggins, 1987);  
 male genitalia (Houghton, 2012);  
 Canada (Walker, 1852; Provancher, 1877);  
 Hudson Bay (Ulmer, 1907);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 ME (Mingo & Gibbs, 1980; Bilger, 1986);  
 MI (Bright & Bidlack, 1998;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
 Houghton & Lardner, 2020; Houghton, 2020; Houghton, 2022);

Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NB (Parker & Wiggins, 1987);  
 NC (Banks, 1908);  
 NH (Morse & Blickle, 1953; Schmid, 1983; Parker & Wiggins, 1987);  
 NJ (Smith, 1910);  
 NS (Schmid, 1983; Parker & Wiggins, 1987);  
 NY (Banks, 1897; Banks, 1907; Betten, 1926; Schmid, 1983;  
 Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (McElravy, Arsuffi, & Foote, 1977; Huryn & Foote, 1983; Parker & Wiggins, 1987;  
 Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Schmid, 1983; Parker & Wiggins, 1987; Harper, 1989);  
 PA (Swegman, Walker, & Sykora, 1981; Parker & Wiggins, 1987; Masteller & Flint, 1992);  
 QC (Ross, 1944; Robert, 1958; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1975;  
 Roy & Harper, 1979; Williams & Williams, 1979; Schmid, 1983;  
 Parker & Wiggins, 1987; Harper, 1989);  
 WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
 Steven & Hilsenhoff, 1984; Parker & Wiggins, 1987; Hilsenhoff, 1995;  
 Hilsenhoff, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).  
*Psilotreta labida* Ross, 1944, NY;  
 adult mesopleuron (Wimmer, 1979);  
 male & female genitalia (Schmid, 1983);  
 larval head & thorax, larval A1 spacing hump, male & female  
 genitalia (Parker & Wiggins, 1987);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris, 1987; Harris & Lago, 1990);  
 CT (Parker & Wiggins, 1987; Nelson, 1987; Nelson & Downs, 1995);  
 GA (Parker & Wiggins, 1987);  
 KY (Parker & Wiggins, 1987; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Neves, 1979; Parker & Wiggins, 1987);  
 MD (Ross, 1944; Schmid, 1983; Parker & Wiggins, 1987);  
 ME (Parker & Wiggins, 1987; Huryn & Harris, 2000);  
 NB (Zhou, 2011);  
 NC (Wray, 1950; Parker & Wiggins, 1987;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Ross, 1944; Morse & Blickle, 1953; Schmid, 1983; Parker & Wiggins, 1987);  
 NJ (Parker & Wiggins, 1987; Zhou, 2011; Mendez, Spagna, Holzenthal, & Houghton, 2019);  
 NY (Ross, 1944; Schmid, 1983; Parker & Wiggins, 1987; Zhou, 2011;  
 Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 ON (Harris, O'Neil, & Lago, 1991);  
 PA (Ross, 1944; Schmid, 1983; Parker & Wiggins, 1987; Masteller & Flint, 1992);  
 TN (Ross, 1944; Edwards, 1966; Etnier & Schuster, 1979;  
 Schmid, 1983; Parker & Wiggins, 1987; Etnier, Baxter, Fraley, & Parker, 1998;  
 Etnier, Bauer, & Zirkle, 2006);  
 VA (Ross, 1944; Parker & Voshell, 1981; Schmid, 1983; Parker & Wiggins, 1987;  
 Flint, Hoffman, & Parker, 2008; Zhou, 2011);  
 VT (Wimmer, 1979);  
 WV (Parker & Wiggins, 1987; Tarter, 1990; Tarter & Floyd, 2016).  
*Psilotreta rossi* Wallace, 1971, NC;  
 larval head & thorax, hindwing, male & female genitalia  
 (Parker & Wiggins, 1987);

NC/SC (Unzicker, Resh, & Morse, 1982);  
 NC (Wallace, 1971; Parker & Wiggins, 1987;  
     Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010; Zhou, 2011);  
 TN (Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Parker & Voshell, 1981; Parker & Wiggins, 1987; Flint, Hoffman, & Parker, 2008);  
 WV (Parker & Wiggins, 1987; Tarter, 1990; Tarter & Floyd, 2016).  
*Psilotreta rufa* (Hagen, 1861), Molanna, NY;  
     *Astoplectron connexa* Banks, 1914, VA (Ross, 1944);  
     "*Heteroplectron ? dissimilis*" Banks, 1897, NY (Parker & Wiggins, 1987);  
     male genitalia (Wallace, 1970; Schmid, 1983);  
     larva, case, wings, male & female genitalia (Parker & Wiggins, 1987);  
 AL (Parker & Wiggins, 1987; Harris & Lago, 1990; Harris, 1990;  
     Harris, O'Neil, & Lago, 1991);  
 CT (Nelson & Downs, 1995);  
 DE (Lake, 1984; Parker & Wiggins, 1987);  
 KY (Resh, 1975; Parker & Wiggins, 1987; Phillippi & Schuster, 1987; Zhou, 2011;  
     Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Parker & Wiggins, 1987);  
 MS (Holzenthal, Harris, & Lago, 1982; Schmid, 1983; Parker & Wiggins, 1987);  
 NC (Parker & Wiggins, 1987; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 NY (Hagen, 1861; Banks, 1892; Schmid, 1983; Parker & Wiggins, 1987);  
 OH (Bolton, 2011; Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 PA (Parker & Wiggins, 1987; Masteller & Flint, 1992);  
 TN (Edwards, 1966; Etnier & Schuster, 1979; Parker & Wiggins, 1987;  
     Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Banks, 1914; Parker & Voshell, 1981; Schmid, 1983; Parker & Wiggins, 1987;  
     Flint, Hoffman, & Parker, 2008);  
 VT (Parker & Wiggins, 1987).

Philopotamidae (5 genera, 49 species) —Finger-net Caddisflies

*Chimarra adella* Denning, 1952, AZ;  
     male genitalia (Denning, 1952; Denning, 1962);  
     male genitalia (Trivette, 1969);  
     male genitalia (Armitage, 1983; Armitage, 1991);  
     female genitalia (Ruitter & Blinn, 2009);  
     male & female genitalia (Blahnik, 1998);  
 AZ (Denning, 1952; Trivette, 1969; Armitage, 1983; Armitage, 1991; Blahnik, 1998;  
     Blinn & Ruitter, 2006);  
 TX (Moulton & Stewart, 1997; Blahnik, 1998).  
*Chimarra angustipennis* Banks, 1903, AZ;  
     *Chimarra siva* Denning, 1949, MT (Blahnik, 1998);  
     male genitalia (Ross, 1944);  
     male genitalia (Denning, 1966);  
     male genitalia (Trivette, 1969);  
     male genitalia (Armitage, 1983; Armitage, 1991);  
     female genitalia (Ruitter & Blinn, 2009);  
     protarsal claws, male & female genitalia (Blahnik, 1998);  
 AR (Ross, 1944, and Ross, 1951, misinterpretation of type locality  
     according to Flint, pers comm; Armitage, 1983);  
 AZ (Banks, 1903; Trivette, 1969; Armitage, 1983; Armitage, 1991; Blahnik, 1998;  
     Blinn & Ruitter, 2006);  
 CA (Denning, 1956 [Trivette, 1969]; Armitage, 1983; Resh & Mendez, 2022);  
 MT (Denning, 1949; Armitage, 1983 [Trivette, 1969]; Blahnik, 1998);

NV (Ruiter, Baumann, & Flint, 2014);  
 OK (Ross, 1944; Trivette, 1969; Armitage, 1983; Armitage, 1991;  
     Bowles & Mathis, 1992; Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006);  
 OR (Anderson, 1976 [Trivette, 1969]);  
 TX (Ross, 1944; Ross, 1951; Trivette, 1969; Edwards, 1973;  
     Armitage, 1983; Armitage, 1991; Moulton & Stewart, 1997;  
     Bowles, Tiemann, & Easley, 2007);  
 Guatemala, Honduras (Trivette, 1969);  
 Mexico (Ross, 1951; Trivette, 1969; Armitage, 1983;  
     Armitage, 1991).

Chimarra argentella Ulmer, 1906, Chimarrha, Jamaica;  
 larval frontoclypeus, mandibles, male & female genitalia (Flint, 1968);  
 ?FL (Milne, 1936, mislabeled and wrongly recorded from FL according to Flint, 1998);  
 Jamaica (Ulmer, 1906).

Chimarra aterrima Hagen, 1861, PA;  
 larva (Ross, 1944);  
 male genitalia (Ross, 1944; Ross, 1956);  
 female maxillary palp (Marshall & Larson, 1982);  
 male & female genitalia (Schmid, 1982);  
 male genitalia (Marshall & Larson, 1982);  
 male & female genitalia (Armitage, 1983; Armitage, 1991);  
 male genitalia (Lago & Harris, 1987; Houghton, 2012);  
 eastern North America north to 50th parallel west to northeastern  
     MN and western TX (Lago & Harris, 1987);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 NF to FL to MI to VA (Schmid, 1982);  
 AL (Harris et al, 1983; Armitage, 1983; Harris, 1987; Lago & Harris, 1987; Armitage, 1991;  
     Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996;  
     Cooper & Morse, 1998; Hicks & Haynes, 2000a; Hicks & Haynes, 2000b;  
     Zhou et al., 2011; Harris & O'Neil, 2015; Denson, Rasmussen, & Harris, 2016);  
 AR (Ross, 1944; Armitage, 1983; Bowles & Mathis, 1989; Armitage, 1991;  
     Bowles & Allen, 1992; Moulton & Stewart, 1996; Cooper & Morse, 1998;  
     Bowles, 2020; Bowles, Cheri, Usrey, & Williams, 2020);  
 CT (Britton, 1920; Bilger, 1986; Nelson & Downs, 1995; Moulton & Stewart, 1996;  
     Cooper & Morse, 1998);  
 DC (Hagen, 1861; Moulton & Stewart, 1996; Cooper & Morse, 1998);  
 DE (Betten, 1934; Armitage, 1983; Lake, 1984; Moulton & Stewart, 1996;  
     Cooper & Morse, 1998);  
 FL (Betten, 1934; Harris, Lago, & Scheiring, 1982; Schmid, 1982; Armitage, 1983; Gordon, 1984;  
     Armitage, 1991; Pescador, Rasmussen, & Harris, 1995, 2004; Moulton & Stewart, 1996;  
     Cooper & Morse, 1998; Rasmussen, 2004; Denson, Rasmussen, & Harris, 2016);  
 GA (Hagen, 1861; Armitage, 1983; Armitage, 1991; Frazer, Harris, & Ward, 1991;  
     Moulton & Stewart, 1996; Cooper & Morse, 1998);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1944; Armitage, 1983; Armitage, 1991; Moulton & Stewart, 1996;  
     Cooper & Morse, 1998;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Betten, 1934; Ross, 1944; Waltz & McCafferty, 1983; Armitage, 1983; Armitage, 1991;  
     Moulton & Stewart, 1996; Cooper & Morse, 1998;  
     Simon, Morris, Robb, & McCoy, 2015;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Ross, 1944; Resh, 1975; Armitage, 1983; Armitage, 1991;  
     Moulton & Stewart, 1996; Cooper & Morse, 1998; Zhou et al., 2011;  
     Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

LA (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998; Cooper & Morse, 1998);

MA (Neves, 1979; Bilger, 1986; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998);

MB (Neave, 1934; Flannagan & Flannagan, 1982; Armitage, 1983; Moulton & Stewart, 1996; Cooper & Morse, 1998);

MD (Banks, 1904; Armitage, 1983; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998; Flint, 2008);

ME (Johnson, 1927; Proctor, 1946; Blickle & Morse, 1966; Mingo & Gibbs, 1979; Mingo & Gibbs, 1980; Armitage, 1983; Bilger, 1986; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998; Huryn & Harris, 2000);

MI (Leonard & Leonard, 1949; Ellis, 1962; Schmid, 1982; Armitage, 1983; Armitage, 1991; Moulton & Stewart, 1996; Yanoviak & McCafferty, 1996; Cooper & Morse, 1998; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MN (Ross, 1944; Etnier, 1965; Armitage, 1983; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MO (Harris & Lawrence, 1978; Armitage, 1991; Mathis & Bowles, 1992; Moulton, Beitinger, Stewart, & Currie, 1993; Moulton & Stewart, 1996; Cooper & Morse, 1998; Bowles, 2020; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MS (Lago, Holzenthal, & Harris, 1982; Armitage, 1983; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998);

NB (Ross, 1944; Armitage, 1983; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998; Zhou et al., 2011);

NC (Banks, 1908; Armitage, 1983; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);

NF (Schmid, 1982; Armitage, 1983; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998);

NH (Morse & Blickle, 1953; Armitage, 1983; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998);

NJ (Smith, 1890; Smith, 1900; Smith, 1910; Armitage, 1983; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998; Zhou et al., 2011);

NS (Ross, 1944; Armitage, 1983; Armitage, 1991; Cooper & Morse, 1998);

NY (Banks, 1892; Milne, 1936; Ross, 1948; Armitage, 1983; McCabe, 1986; Bilger, 1986; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998; Myers, Kondratieff, Mihuc, & Ruitter, 2011);

OH (McElravy, Arsuffi, & Foote, 1977; Petersen & Foote, 1980; Huryn & Foote, 1983; Armitage, 1983; MacLean & MacLean, 1984; Usis & MacLean, 1986; Garono & MacLean, 1988; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

OK (Betten, 1934; Armitage, 1983; Armitage, 1991; Bowles & Mathis, 1992; Moulton & Stewart, 1996; Cooper & Morse, 1998);

ON (Ricker, 1934; Sprules, 1947; Williams & Hynes, 1973; Armitage, 1983; Williams, Tavares, & Bryant, 1987; Harper, 1989; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998; Zhou et al., 2011);

PA (Hagen, 1861; Ross, 1941; Swegman, Walker, & Sykora, 1981; Armitage, 1983; Masteller & Flint, 1984; Armitage, 1991; Masteller & Flint, 1992; Moulton & Stewart, 1996; Cooper & Morse, 1998);

QC (Hagen, 1861; Robert, 1958; Roy & Harper, 1975; Roy & Harper, 1979; Williams & Williams, 1979);

- Armitage, 1983; Harper, 1989; Armitage, 1991;  
Moulton & Stewart, 1996; Cooper & Morse, 1998);
- SC (Morse, Chapin, Herlong, & Harvey, 1980; Armitage, 1983;  
Morse, Hamilton, & Hoffman, 1989; Armitage, 1991; Floyd & Morse, 1993;  
Moulton & Stewart, 1996; Cooper & Morse, 1998; Zhou et al., 2011);
- TN (Ross, 1944; Edwards, 1966; Etnier & Schuster, 1979;  
Armitage, 1983; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998;  
Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005;  
DeWalt, Jacobus, & McCafferty, 2007);
- TX (Edwards & Arnold, 1961; Edwards, 1973; Armitage, 1983;  
Armitage, 1991; Moulton & Stewart, 1996;  
Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997; Cooper & Morse, 1998;  
Bowles, Tiemann, & Easley, 2007);
- VA (Ross, 1944; Parker & Voshell, 1981; Schmid, 1982; Armitage, 1983; Armitage, 1991;  
Moulton & Stewart, 1996; Cooper & Morse, 1998; Flint, Hoffman, & Parker, 2004;  
Zhou et al., 2011; Flint, 2011);
- VT (Wimmer, 1979; Bilger, 1986; Moulton & Stewart, 1996; Cooper & Morse, 1998);
- WI (Ross, 1944; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
Shapas & Hilsenhoff, 1976; Armitage, 1983; Steven & Hilsenhoff, 1984; Armitage, 1991;  
Hilsenhoff, 1995; Hilsenhoff, 1996; Moulton & Stewart, 1996; Cooper & Morse, 1998;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- WV (Ross, 1944; Armitage, 1983; Tarter, 1990; Armitage, 1991; Moulton & Stewart, 1996;  
Cooper & Morse, 1998; Tarter & Floyd, 2016);
- Puerto Rico (Denning, 1947, but in error according to Flint, 1964).
- Chimarra augusta* Morse, 1971, SC;  
male genitalia (Armitage, 1983; Armitage, 1991);  
male genitalia (Lago & Harris, 1987);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
AL (Lago & Harris, 1987; Harris, 1990; Armitage, 1991;  
Harris, O'Neil, & Lago, 1991; Cooper & Morse, 1998);  
NC (Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);  
SC (Morse, 1971; Armitage, 1983; Lago & Harris, 1987;  
Morse, Hamilton, & Hoffman, 1989; Armitage, 1991;  
Cooper & Morse, 1998);  
TN (Etnier & Schuster, 1979; Lago & Harris, 1987; Armitage, 1991;  
Cooper & Morse, 1998; Etnier, Baxter, Fraley, & Parker, 1998;  
DeWalt & Heinold, 2005; Zhou et al., 2011);  
VA (Parker & Voshell, 1981; Armitage, 1983; Lago & Harris, 1987;  
Armitage, 1991; Cooper & Morse, 1998; Flint, Hoffman, & Parker, 2004;  
Zhou et al., 2011);  
WV (Lago & Harris, 1987; Tarter, 1990; Armitage, 1991;  
Cooper & Morse, 1998; Tarter & Floyd, 2016).
- Chimarra beameri* Denning, 1950, TX;  
*Chimarra calva* Ross, 1959 (Bueno-Soria & Flint, 1972), Mexico;  
male genitalia (Trivette, 1969);  
male genitalia (Armitage, 1983; Armitage, 1991);  
male & female genitalia (Blahnik, 1998);  
TX (Denning, 1950; Armitage, 1983; Armitage, 1991; Moulton & Stewart, 1997;  
Blahnik, 1998; Bowles, Tiemann, & Easley, 2007);  
Mexico (Bueno-Soria & Flint, 1978; Trivette, 1969;  
Armitage, 1983; Armitage, 1991).
- Chimarra butleri* Denning, 1962, CA;  
male genitalia (Armitage, 1983; Armitage, 1991);  
male & female genitalia (Blahnik, 1998);  
CA (Denning, 1962; Armitage, 1983; Armitage, 1991; Blahnik, 1998; Resh & Mendez, 2022).



Chimarra (*Chimarra*) *duckworthi* Flint, 1967, Costa Rica;  
 Mexico, Honduras, Venezuela, Ecuador, Costa Rica, Colombia  
 (Flint, 1991).

*Chimarra elia* Ross, 1944, TX;  
*Chimarra barranca* Denning, 1962, Mexico (Bueno-Soria & Flint, 1978);  
*Chimarra lara* Denning, 1971, CA (Blahnik, 1998);  
 male genitalia (Trivette, 1969);  
 male genitalia (Flint, 1958);  
 male genitalia (Armitage, 1983; Armitage, 1991);  
 male & female genitalia (Blahnik, 1998);  
 CA (Denning, 1971; Armitage, 1983; Armitage, 1991; Blahnik, 1998; Resh & Mendez, 2022);  
 NV (Ruitter, Baumann, & Flint, 2014);  
 TX (Ross, 1944; Denning, 1962; Trivette, 1969; Armitage, 1983; Armitage, 1991;  
 Moulton & Stewart, 1997; Blahnik, 1998; Bowles, Tiemann, & Easley, 2007);  
 Costa Rica, Guatemala (Trivette, 1969);  
 Mexico (Ross, 1951; Trivette, 1969; Armitage, 1983;  
 Armitage, 1991).

*Chimarra falculata* Lago & Harris, 1987, AL;  
 male genitalia (Armitage, 1991);  
 AL (Lago & Harris, 1987; Harris, 1990; Armitage, 1991;  
 Harris, O'Neil, & Lago, 1991; Cooper & Morse, 1998);  
 FL (Harris, Lago & Scheiring, 1982; Scheiring, 1985;  
 Lago & Harris, 1987; Armitage, 1991;  
 Pescador, Rasmussen, & Harris, 1995, 2004; Cooper & Morse, 1998; Rasmussen, 2004;  
 Denson, Rasmussen, & Harris, 2016);  
 GA (Lago & Harris, 1987; Armitage, 1991; Cooper & Morse, 1998);  
 MS (Lago & Harris, 1987; Armitage, 1991; Cooper & Morse, 1998).

*Chimarra feria* Ross, 1941, IL;  
 larva, male genitalia (Ross, 1944);  
 male genitalia (Schmid, 1982);  
 male genitalia (Armitage, 1983; Armitage, 1991);  
 male genitalia (Lago & Harris, 1987; Houghton, 2012);  
 central U.S. east of the Great Plains, southwestern ON east to southern QC and NF  
 south to southcentral TX (Lago & Harris, 1987);  
 AL (Lago & Harris, 1991; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996;  
 Cooper & Morse, 1998; Hicks & Haynes, 2000a);  
 AR (Ross, 1941; Schuster & Hamilton, 1978; Armitage, 1983; Bowles & Mathis, 1989;  
 Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998;  
 Bowles, Cheri, Usrey, & Williams, 2020);  
 IA (Blinn, Ruitter, & Flint, 2009;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1941; Schuster & Hamilton, 1978; Armitage, 1983; Armitage, 1991;  
 Moulton & Stewart, 1996; Cooper & Morse, 1998;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1941, but see Waltz & McCafferty, 1983; Schuster & Hamilton, 1978; Armitage, 1983;  
 Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Schuster & Hamilton, 1978; Hamilton, Schuster, & DuBois, 1983; Armitage, 1991;  
 Moulton & Stewart, 1996; Cooper & Morse, 1998;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Ross, 1944; Resh, 1975, misidentification, Lago & Harris, 1987;  
 Armitage, 1983, misidentification, Lago & Harris, 1987; Moulton & Stewart, 1996;  
 Cooper & Morse, 1998; Etnier, Bauer, & Zirkle, 2006;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

- MI (Leonard & Leonard, 1949; Schuster & Hamilton, 1978; Armitage, 1983; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998; Houghton, Brandin, & Brakel, 2011; Brakel, Wassink, & Houghton, 2015; Houghton, 2016; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiters, Bright, Hudson, & Armitage, 2018; Houghton, 2022; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MN (Ross, 1944; Etnier, 1965; Schuster & Hamilton, 1978; Lager, Johnson, Williams, & McCulloch, 1979; Armitage, 1983; Armitage, 1991; MacLean, 1995; Moulton & Stewart, 1996; Cooper & Morse, 1998; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton & Holzenthal, 2010; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MO (Ross, 1941; Schuster & Hamilton, 1978; Armitage, 1983; Armitage, 1991; Mathis & Bowles, 1992; Moulton & Stewart, 1996; Cooper & Morse, 1998; Ferro & Sites, 2007; Bowles, 2020; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MS (Lago, Holzenthal, & Harris, 1982; Armitage, 1983; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998);
- NE (Armitage, 1983; Moulton & Stewart, 1996; Cooper & Morse, 1998; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- NF (Schmid, 1982; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998);
- OH (Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- OK (Ross, 1941; Schuster & Hamilton, 1978; Armitage, 1983; Armitage, 1991; Bowles & Mathis, 1992; Moulton & Stewart, 1996; Cooper & Morse, 1998; Cooper & Morse, 1998; Zuellig, Kondratieff, Schmidt, Durfee, Ruiters, & Prather, 2006);
- ON (Armitage, 1983; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998);
- QC (Roy & Harper, 1975; Roy & Harper, 1979; Armitage, 1983; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998);
- TN (Etnier, Bauer, & Zirkle, 2006);
- TX (Ross, 1941; Edwards, 1973; Schuster & Hamilton, 1978; Armitage, 1983; Armitage, 1991; Moulton & Stewart, 1996; Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997; Cooper & Morse, 1998; Bowles, Tiemann, & Easley, 2007);
- WI (Ross, 1941; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Schuster & Hamilton, 1978; Armitage, 1983; Armitage, 1991; Hilsenhoff, 1995; Moulton & Stewart, 1996; Cooper & Morse, 1998; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Chimarra florida Ross, 1944, GA;  
 male genitalia (Armitage, 1983; Armitage, 1991);  
 male genitalia (Lago & Harris, 1987);  
 protarsal claws (Blahnik, 1998);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris, 1987; Lago & Harris, 1987; Armitage, 1991; Harris, O'Neil, & Lago, 1991; Cooper & Morse, 1998; Hicks & Haynes, 2000b; Harris & O'Neil, 2015);  
 FL (Ross, 1944; Frost, 1966; Harris, Lago, & Scheiring, 1982; Armitage, 1983; Gordon, 1984; Lago & Harris, 1987; Armitage, 1991; Pescador, Rasmussen, & Harris, 1995, 2004; Mattson, Epler, & Hein, 1995; Cooper & Morse, 1998; Rasmussen, 2004; Denson, Rasmussen, & Harris, 2016);  
 GA (Ross, 1944; Armitage, 1983; Lago & Harris, 1987; Armitage, 1991; Cooper & Morse, 1998);  
 LA (Lago, Holzenthal, & Harris, 1982; Armitage, 1983; Lago & Harris, 1987; Armitage, 1991; Cooper & Morse, 1998);

- MS (Lago, Holzenthal, & Harris, 1982; Armitage, 1983;  
Lago & Harris, 1987; Armitage, 1991; Cooper & Morse, 1998);  
NC (Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
NJ (Lago & Harris, 1987; Armitage, 1991; Cooper & Morse, 1998);  
SC (Armitage, 1983; Morse, Chapin, Herlong & Harvey, 1980;  
Lago & Harris, 1987; Armitage, 1991; Cooper & Morse, 1998);  
VA (Flint, Hoffman, & Parker, 2009).
- Chimarra holzenthali* Lago & Harris, 1987, LA;  
male genitalia (Armitage, 1991);  
LA (Lago & Harris, 1987; Armitage, 1991; Cooper & Morse, 1998);  
TX (Bowles, Flint, & Moulton, 1993; Moulton & Stewart, 1997; Cooper & Morse, 1998).
- Chimarra moselyi* Denning, 1948, GA;  
*Chimarra perigua* Ross, 1948 (Denning, 1950), FL;  
male genitalia (Armitage, 1983; Armitage, 1991);  
male genitalia (Lago & Harris, 1987);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
AL (Harris, Lago, & O'Neil, 1984; Harris, 1987; Lago & Harris, 1987; Armitage, 1991;  
Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998;  
Hicks & Haynes, 2000b);  
FL (Ross, 1948; Lago & Harris, 1987; Armitage, 1991;  
Pescador, Rasmussen, & Harris, 1995, 2004; Mattson, Epler, & Hein, 1995;  
Moulton & Stewart, 1996; Cooper & Morse, 1998; Rasmussen, 2004;  
Denson, Rasmussen, & Harris, 2016);  
GA (Denning, 1948; Ross, 1948; Armitage, 1983; Lago & Harris, 1987; Armitage, 1991;  
Moulton & Stewart, 1996; Cooper & Morse, 1998);  
IL (Ross, 1948; Lago & Harris, 1987; Armitage, 1991; Moulton & Stewart, 1996;  
Cooper & Morse, 1998;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
IN (Lago & Harris, 1987; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
KY (Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
LA (Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998);  
MO (Lago & Harris, 1987; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998;  
Ferro & Sites, 2007;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MS (Lago & Harris, 1987; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998);  
NC (Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998;  
Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
OH (Armitage, 1991, doubtful record according to Armitage et al., 2011;  
Moulton & Stewart, 1996; Cooper & Morse, 1998);  
SC (Cudney & Wallace, 1980; Armitage, 1983; Lago & Harris, 1987; Armitage, 1991;  
Moulton & Stewart, 1996; Cooper & Morse, 1998);  
TN (Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998;  
Etnier, Baxter, Fraley, & Parker, 1998);  
TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);  
VA (Parker & Voshell, 1981; Parker & Voshell, 1982; Parker & Voshell, 1983;  
Lago & Harris, 1987; Armitage, 1991; Hoffman & Parker, 1997;  
Moulton & Stewart, 1996; Cooper & Morse, 1998; Flint, Hoffman, & Parker, 2004).
- Chimarra obscura* (Walker, 1852), "? Beraea", Hudson Bay;  
*Chimarra lucia* Betten, 1934 (as syn. of *C. plutonis*, Milne, 1936);  
*Wormaldia plutonis* Banks, 1911 (Betten & Mosely, 1940);  
male genitalia (Ross, 1944);  
head, wings, male & female genitalia (Schmid, 1980; Schmid, 1982);  
protibia, male genitalia (Marshall & Larson, 1982);

wings, male & female genitalia (Armitage, 1983; Armitage, 1991);  
male genitalia (Lago & Harris, 1987; Houghton, 2012);  
male & female genitalia (Blahnik, 1998);  
eastern North America except eastern coastal plain (Lago & Harris, 1987);  
Hudson Bay (Walker, 1852; Hagen 1861);  
widespread east of the Rocky Mountains (Schuster & Hamilton, 1978);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
OK/TX (Resh, White, & White, 1978);  
AL (Harris et al, 1983; Harris, 1987; Lago & Harris, 1987; Armitage, 1991;  
Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996;  
Cooper & Morse, 1998; Hicks & Haynes, 2000a;  
Hicks & Haynes, 2000b);  
AR (Ross, 1941; Ross, 1944; Armitage, 1983; Bowles & Mathis, 1989; Armitage, 1991;  
Bowles & Allen, 1992; Moulton & Stewart, 1996; Cooper & Morse, 1998;  
Bowles, 2020; Bowles, Cheri, Usrey, & Williams, 2020);  
CT (Bilger, 1986; Downs & Godwin, 1987; Nelson & Downs, 1995; Moulton & Stewart, 1996;  
Cooper & Morse, 1998);  
DE (Slosson, 1912; Armitage, 1983; Lake, 1984; Armitage, 1991; Moulton & Stewart, 1996;  
Cooper & Morse, 1998);  
FL (Gordon, 1984; Pescador, Rasmussen, & Harris, 1995, 2004; Moulton & Stewart, 1996;  
Cooper & Morse, 1998; Rasmussen, 2004; Zhou et al., 2011;  
Denson, Rasmussen, & Harris, 2016);  
GA (Frazer, Harris, & Ward, 1991; Moulton & Stewart, 1996);  
IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
IL (Ross, 1944; Armitage, 1983; Armitage, 1991; Moulton & Stewart, 1996;  
Cooper & Morse, 1998; Zhou et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
IN (Ross, 1944; Waltz & McCafferty, 1983; Armitage, 1983; Armitage, 1991;  
Moulton & Stewart, 1996; Cooper & Morse, 1998;  
Simon, Morris, Robb, & McCoy, 2015;  
DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
KS (Schuster & Hamilton, 1978; Hamilton, Schuster, & DuBois, 1983; Armitage, 1991;  
Moulton & Stewart, 1996; Cooper & Morse, 1998;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
KY (Ross, 1944; Resh, 1975; Armitage, 1983; Haag, Resh, & Neff, 1984; Floyd & Schuster, 1990;  
Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998;  
Etnier, Bauer, & Zirkle, 2006; Zhou et al., 2011;  
Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
LB (Armitage, 1983; Cooper & Morse, 1998);  
MA (Neves, 1979; Bilger, 1986; Armitage, 1991; Moulton & Stewart, 1996;  
Cooper & Morse, 1998; Whitmore 2008);  
MB (Armitage, 1983; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998);  
MD (Ross, 1944; Moulton & Stewart, 1996; Cooper & Morse, 1998; Flint, 2008);  
ME (Betten, 1934; Ross, 1944; Blickle & Morse, 1966; Mingo & Gibbs, 1979;  
Mingo & Gibbs, 1980; Armitage, 1983; Bilger, 1986; Armitage, 1991;  
Moulton & Stewart, 1996; Cooper & Morse, 1998; Huryn & Harris, 2000);  
MI (Ross, 1944; Leonard & Leonard, 1949; Armitage, 1983;  
Armitage, 1991; Moulton & Stewart, 1996; Yanoviak & McCafferty, 1996;  
Cooper & Morse, 1998; Houghton, Brandin, & Brakel, 2011;  
Wright, Pytel, & Houghton, 2013; Houghton, 2016;  
Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
Houghton & Lardner, 2020; Houghton, 2022;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MN (Etnier, 1965; Lager, Johnson, Williams, & McCullough, 1979; Armitage, 1983; Armitage, 1991; MacLean, 1995; Moulton & Stewart, 1996; Ruiter, 1996; Monson, 1997; Cooper & Morse, 1998; Houghton, Holzenthal, Monson, & MacLean, 2001; Zhou et al., 2011; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MO (Ross, 1944; Armitage, 1983; Armitage, 1991; Mathis & Bowles, 1992; Moulton & Stewart, 1996; Cooper & Morse, 1998; Ferro & Sites, 2007; Bowles, 2020; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MS (Lago, Holzenthal, & Harris, 1982; Armitage, 1983; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998);

NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);

NE (Armitage, 1983; Moulton & Stewart, 1996; Cooper & Morse, 1998; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

NF (Marshall & Larson, 1982; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998);

NH (Morse & Blickle, 1953; Armitage, 1983; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998);

NJ (Armitage, 1983; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998; Zhou et al., 2011);

NS (Schmid, 1982; Moulton & Stewart, 1996; Moulton & Stewart, 1996; Cooper & Morse, 1998);

NT (Cordero, Sánchez-Ramírez, & Currie, 2017);

NY (Banks, 1911; Betten, 1934; Ross, 1944; Armitage, 1983; Bilger, 1986; Armitage, 1991; Cooper & Morse, 1998; Myers, Kondratieff, Mihuc, & Ruiter, 2011; Tozer, 2018);

OH (Ross, 1944; Petersen & Foote, 1980; Huryn & Foote, 1983; Armitage, 1983; MacLean & MacLean, 1984; Usis & MacLean, 1986; Garono & MacLean, 1988; Ingold, Weigt, & Guttman, 1988; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

OK (Ross, 1944; Armitage, 1983; Armitage, 1991; Bowles & Mathis, 1992; Moulton & Stewart, 1996; Cooper & Morse, 1998; Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006);

ON (Ross, 1944; Sprules, 1947; Armitage, 1983; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998; Zhou et al., 2011);

PA (Ross, 1944; Armitage, 1983; Armitage, 1991; Masteller & Flint, 1992; Moulton & Stewart, 1996; Cooper & Morse, 1998);

QC (Robert, 1958; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1975; Roy & Harper, 1979; Armitage, 1983; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998);

SC (Lago & Harris, 1987; Armitage, 1991; Floyd & Morse, 1993; Moulton & Stewart, 1996; Cooper & Morse, 1998; Floyd, Morse, & Harris, 1997);

TN (Edwards, 1966; Etnier & Schuster, 1979; Armitage, 1983; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998; Etnier, Baxter, Fraley, & Parker, 1998; Etnier, Bauer, & Zirkle, 2006; Zhou et al., 2011);

TX (Ross, 1944; Edwards & Arnold, 1961; Cloud & Stewart, 1974; Armitage, 1983; Armitage, 1991; Moulton, Beitinger, Stewart, & Currie, 1993; Moulton & Stewart, 1996; Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997; Blahnik, 1998; Cooper & Morse, 1998; Bowles, Tiemann, & Easley, 2007);

VA (Ross, 1944; Hoffman & Merkel, 1948; Parker & Voshell, 1981; Parker & Voshell, 1982; Parker & Voshell, 1983; Armitage, 1983; Armitage, 1991; Hoffman & Parker, 1997; Moulton & Stewart, 1996; Cooper & Morse, 1998; Flint, Hoffman, & Parker, 2004; Zhou et al., 2011; Flint, 2011);

VT (Bilger, 1986; Moulton & Stewart, 1996; Cooper & Morse, 1998);

WI (Ross, 1944; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Armitage, 1983; Armitage, 1991; Hilsenhoff, 1995; Moulton & Stewart, 1996; Cooper & Morse, 1998; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

- WV (Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016).
- Chimarra parasocia* Lago & Harris, 1987, MS;  
 male genitalia (Armitage, 1991);  
 AL (Lago & Harris, 1987; Harris, 1987; Armitage, 1991; Harris, O'Neil, & Lago, 1991;  
 Moulton & Stewart, 1996; Cooper & Morse, 1998; Hicks & Haynes, 2000b);  
 AR (Lago & Harris, 1987; Bowles & Mathis, 1989; Moulton & Stewart, 1996;  
 Cooper & Morse, 1998; Etnier, 2010);  
 FL (Pescador, Rasmussen, & Harris, 1995);  
 KY (Lago & Harris, 1987; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Lago & Harris, 1987; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998);  
 MO (Lago & Harris, 1987; Armitage, 1991; Mathis & Bowles, 1992; Moulton & Stewart, 1996;  
 Cooper & Morse, 1998;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Lago & Harris, 1987; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998);  
 TN (Lago & Harris, 1987; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998;  
 Etnier, Baxter, Fraley, & Parker, 1998);  
 TX (Bowles, Flint, & Moulton, 1993; Abbott, Stewart, & Moulton, 1997;  
 Moulton & Stewart, 1997; Cooper & Morse, 1998).
- Chimarra primula* Denning, 1950, AZ;  
 male genitalia (Armitage, 1983; Armitage, 1991);  
 female genitalia (Ruiter & Blinn, 2009);  
 AZ (Denning, 1950; Armitage, 1983; Armitage, 1991; Ruiter, 1996; Blinn & Ruiter, 2006).
- Chimarra ridleyi* Denning, 1941, Chimarrha, Mexico;  
 male genitalia (Denning, 1962);  
 male genitalia (Trivette, 1969);  
 male genitalia (Armitage, 1983; Armitage, 1991);  
 female genitalia (Ruiter & Blinn, 2009);  
 AZ (Trivette, 1969; Bueno-Soria & Flint, 1978; Armitage, 1991;  
 Ruiter, 1996; Houghton, 2001; Blinn & Ruiter, 2006);  
 NM (Ruiter, 1996);  
 TX (Trivette, 1969; Bueno-Soria & Flint, 1978; Armitage, 1983;  
 Armitage, 1991; Moulton & Stewart, 1997);  
 Costa Rica, El Salvador, Guatamala (Trivette, 1969);  
 Mexico (Denning, 1941; Trivette, 1969; Armitage, 1983;  
 Armitage, 1991).
- Chimarra schiza* Ross, 1959, Mexico;  
 male genitalia (Trivette, 1969);  
 male genitalia (Armitage, 1983; Armitage, 1991);  
 female genitalia (Ruiter & Blinn, 2009);  
 protarsal claws, male & female genitalia (Blahnik, 1998);  
 AZ (Trivette, 1969; Bueno-Soria & Flint, 1978; Armitage, 1983;  
 Armitage, 1991; Blinn & Ruiter, 2006);  
 Mexico (Ross, 1959; Trivette, 1969; Armitage, 1983).
- Chimarra socia* Hagen, 1861, DC;  
*Wormaldia femoralis* Banks, 1911 (Milne, 1936);  
 larva, male genitalia (Ross, 1944);  
 phallus, inferior appendage (Ross, 1948);  
 internal female genitalia (Unzicker, 1968);  
 photos of net (Wallace & Malas, 1976);  
 male & female genitalia (Schmid, 1982);  
 male genitalia (Marshall & Larson, 1982);  
 male & female genitalia (Armitage, 1983; Armitage, 1991);  
 male genitalia (Lago & Harris, 1987; Houghton, 2012);  
 supermale genitalia (Houghton, 2004b);

Canada (Betten, 1934, record suspect; Ross, 1941, record suspect);  
 NB to FL to MB to SC (Schmid, 1982);  
 NC/SC (Unzicker, Resh, & Morse, 1982, record suspect);  
 AL (Lago & Harris, 1991; Armitage, 1991; Harris, O'Neil, & Lago, 1991;  
 all records suspect, Lago & Harris, 1987; Moulton & Stewart, 1996);  
 AR (Bowles & Mathis, 1989; Lago, 1990; Armitage, 1991;  
 all records suspect, Lago & Harris, 1987; Moulton & Stewart, 1996; Etnier, 2010;  
 Bowles, Cheri, Usrey, & Williams, 2020);  
 CT (Bilger, 1986; Nelson, 1987; Nelson & Downs, 1995; Cooper & Morse, 1998);  
 DC (Hagen, 1861; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998);  
 FL (Betten, 1934; Ross, 1941, Ross, 1944, Ross, 1948; Schmid, 1982; Armitage, 1983;  
 all records suspect, Lago & Harris, 1987);  
 GA (Döhler, 1915; Ross, 1944, Ross, 1948; Wallace & Malas, 1976;  
 Wallace, Webster, & Woodall, 1977; Armitage, 1983;  
 some records may be in error, Lago & Harris, 1987; Cooper & Morse, 1998);  
 IN (Ross, 1944; Waltz & McCafferty, 1983; Armitage, 1991;  
 all records suspect, Lago & Harris, 1987; Moulton & Stewart, 1996);  
 KY (Ross, 1944; Resh, 1975; Armitage, 1983; Moulton & Stewart, 1996; Zhou et al., 2011;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Lago, Holzenthal, & Harris, 1982; Armitage, 1983;  
 all records suspect, Lago & Harris, 1987);  
 LB (Armitage, 1983; Cooper & Morse, 1998);  
 MA (Neves, 1979; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998);  
 MB (Flannagan, 1978; Flannagan & Flannagan, 1982; Armitage, 1983; Armitage, 1991;  
 Moulton & Stewart, 1996; Cooper & Morse, 1998;  
 Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Zhou et al., 2011;  
 Ruiter, Boyle, & Zhou, 2013);  
 MD (Ross, 1944; Lago & Harris, 1987; Moulton & Stewart, 1996; Cooper & Morse, 1998;  
 Flint, 2008);  
 ME (Ross, 1944; Blickle & Morse, 1966; Mingo & Gibbs, 1979; Mingo & Gibbs, 1980;  
 Armitage, 1983; Bilger, 1986; Lago & Harris, 1987; Armitage, 1991;  
 Moulton & Stewart, 1996; Cooper & Morse, 1998; Huryn & Harris, 2000);  
 MI (Ross, 1944; Leonard & Leonard, 1949; Armitage, 1983; Lago & Harris, 1987;  
 Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton & Lardner, 2020;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Lager, Johnson, Williams, & McCullough, 1979; Armitage, 1983;  
 Lago & Harris, 1987; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2004b;  
 Houghton & Holzenthal, 2010; Zhou et al., 2011; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Lago, 1990; Armitage, 1991; all records suspect, Lago & Harris, 1987;  
 Moulton & Stewart, 1996; Ferro & Sites, 2007; Etnier, 2010;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Lago, Holzenthal, & Harris, 1982; Armitage, 1983;  
 all records suspect, Lago & Harris, 1987);  
 NB (Ross, 1944; Schmid, 1982; Armitage, 1983; Armitage, 1991; Moulton & Stewart, 1996;  
 Cooper & Morse, 1998; Zhou et al., 2011);  
 NC (Morse, Hamilton, & Hoffman, 1989; Armitage, 1991; Moulton & Stewart, 1996;  
 Cooper & Morse, 1998;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NF (Marshall & Larson, 1982; Armitage, 1991; Moulton & Stewart, 1996;  
 Cooper & Morse, 1998; Cordero, Sánchez-Ramírez, & Currie, 2017);

NH (Morse & Blickle, 1953; Armitage, 1983; Lago & Harris, 1987; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998);

NJ (Betten, 1934; Ross, 1941; Armitage, 1983; Lago & Harris, 1987; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998; Zhou et al., 2011);

NS (Armitage, 1983; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998);

NY (Banks, 1911; Betten, 1926; Ross, 1944; Armitage, 1983; Lago & Harris, 1987; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998; Myers, Kondratieff, Mihuc, & Ruiters, 2011; Tozer, 2018);

OH (Ross, 1944; Huryn & Foote, 1983; Armitage, 1983; Lago & Harris, 1987; Armitage, 1991; Moulton & Stewart, 1996; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

ON (Ricker, 1934; Ross, 1944; Sprules, 1947; Munroe, 1951; Armitage, 1983; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998; Zhou et al., 2011);

PA (Ross, 1944; Armitage, 1983; Lago & Harris, 1987; Armitage, 1991; Masteller & Flint, 1992; Moulton & Stewart, 1996; Cooper & Morse, 1998);

QC (Ross, 1944; Robert, 1958; Corbet, 1966; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1975; Roy & Harper, 1979; Armitage, 1983; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998);

SC (Ross, 1944; Armitage, 1983; all records suspect, Lago & Harris, 1987; Cooper & Morse, 1998);

TN (Etnier & Schuster, 1979; Lago & Harris, 1987; Armitage, 1991; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005);

VA (Hoffman & Merkel, 1948; Parker & Voshell, 1981; Armitage, 1983; Lago & Harris, 1987; Armitage, 1991; Hoffman & Parker, 1997; Moulton & Stewart, 1996; Cooper & Morse, 1998; Flint, Hoffman, & Parker, 2004; Flint, 2011);

VT (Bilger, 1986);

WI (Ross, 1944; Hilsenhoff et al., 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Armitage, 1983; Lago & Harris, 1987; Armitage, 1991; Hilsenhoff, 1995; Moulton & Stewart, 1996; Cooper & Morse, 1998; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

WV (Ross, 1944; Armitage, 1983; Lago & Harris, 1987; Tarter, 1990; Armitage, 1991; Moulton & Stewart, 1996; Cooper & Morse, 1998; Tarter & Floyd, 2016).

*Chimarra texana* Banks, 1920, TX;  
*Chimarra betteni* Denning, 1941, Mexico (Bueno-Soria & Flint, 1978);  
 larva (Edwards & Arnold, 1961);  
 male genitalia (Trivette, 1969; Armitage, 1983; Armitage, 1991);  
 female genitalia (Ruiters & Blinn, 2009);

AZ (Armitage, 1983; Armitage, 1991; Blinn & Ruiters, 2006);

TX (Banks, 1920; Edwards & Arnold, 1961; Norris, Arnold, & Edwards, 1964; Trivette, 1969; Edwards, 1973; Armitage, 1983; Armitage, 1991; Moulton & Stewart, 1997; Bowles, Tiemann, & Easley, 2007);

Mexico (Trivette, 1969; Bueno-Soria & Flint, 1978; Armitage, 1983; Armitage, 1991).

*Chimarra utahensis* Ross, 1938, UT;  
*Chimarra idahoensis* Ling, 1938 (Ross, 1944);  
 male genitalia (Ross, 1938; Trivette, 1969);  
 male & female genitalia (Schmid, 1982);  
 male & female genitalia (Armitage, 1983; Armitage, 1991; Blahnik, 1998);  
 female genitalia (Ruiters & Blinn, 2009);

AZ (Trivette, 1969; Armitage, 1983; Moulton, Stewart, & Young, 1994; Houghton, 2001; Blinn & Ruiters, 2006; Blinn, Ruiters, & Haden, 2012);

CA (Schmid, 1982; Armitage, 1983; Armitage, 1991; Resh & Mendez, 2022);

CO (Armitage, 1983; Herrmann, Ruiters, & Unzicker, 1986; Armitage, 1991; Hayford & Herrmann, 1998; Zuellig, Heinold, Kondratieff, & Ruiters, 2012);

ID (Ling, 1938; Ross, 1951; Trivette, 1969; Schmid, 1982; Armitage, 1983; Armitage, 1991);



Blahnik, 1998);  
MT (Roemhild, 1982; Armitage, 1991);  
NM (Trivette, 1969; Waltz & McCafferty, 1983; Armitage, 1983; Armitage, 1991);  
NV (Trivette, 1969; Armitage, 1991; Ruiter, Baumann, & Flint, 2014);  
OR (Anderson, 1976; Armitage, 1991);  
SD (Ross, 1951; Trivette, 1969; Schmid, 1982; Armitage, 1983; Armitage, 1991; Blahnik, 1998;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
UT (Ross, 1938; Knowlton & Harmston, 1939; Ross, 1951; Trivette, 1969; Schmid, 1982;  
Armitage, 1983; Armitage, 1991; Blahnik, 1998);  
WY (Ross, 1951; Schmid, 1982; Armitage, 1983; Ruiter & Lavigne, 1985; Armitage, 1991);  
Mexico (Ross, 1951; Flint, 1967; Trivette, 1969; Armitage, 1983; Armitage, 1991).

*Dolophilodes aequalis* (Banks, 1924), Philopotamus, CO;  
male genitalia (Ross, 1956);  
internal female genitalia (Unzicker, 1968);  
wings, male & female genitalia (Nimmo, 1974);  
male & female genitalia (Schmid, 1982);  
male & female genitalia (Armitage, 1983; Armitage, 1991);  
AB (Schmid, 1982; Armitage, 1983; Armitage, 1991);  
BC (Ross & Spencer, 1952; Nimmo, 1974; Nimmo & Scudder, 1978;  
Nimmo & Scudder, 1983; Schmid, 1982; Armitage, 1983; Armitage, 1991);  
CA (Denning, 1956; Nimmo, 1974; Schmid, 1982; Armitage, 1983; Erman, 1989;  
Armitage, 1991; Resh & Mendez, 2022);  
CO (Banks, 1924; Dodds & Hisaw, 1925; Nimmo, 1974; Schmid, 1982;  
Armitage, 1983; Herrmann, Ruiter, & Unzicker, 1986; Ward, 1986; Armitage, 1991;  
Zuellig, Kondratieff, Ruiter, & Thorp, 2006;  
Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
ID (Nimmo, 1974; Newell & Minshall, 1977; Schmid, 1982; Armitage, 1983; Armitage, 1991);  
MT (Newell, 1970; Newell & Potter, 1973; Roemhild, 1982; Armitage, 1991);  
NM (Schmid, 1982; Armitage, 1983; Armitage, 1991);  
NV (Schmid, 1982; Armitage, 1983; Armitage, 1991; Ruiter, Baumann, & Flint, 2014);  
OR (Anderson, 1976; Schmid, 1982; Armitage, 1983;  
Anderson, Wisseman, & Courtney, 1984; Armitage, 1991);  
UT (Knowlton & Harmston, 1939; Nimmo, 1974;  
Baumann & Unzicker, 1981; Schmid, 1982; Armitage, 1983;  
Armitage, 1991);  
WA (Schmid, 1982; Armitage, 1983; Armitage, 1991; Blinn & Ruiter, 2013);  
WY (Schmid, 1982; Armitage, 1983; Ruiter & Lavigne, 1985;  
Armitage, 1991; Ruiter, 1996).

*Dolophilodes andora* Denning, 1989, CA;  
CA (Denning, 1989; Resh & Mendez, 2022).

*Dolophilodes columbia* Denning, 1989, WA;  
WA (Denning, 1989).

*Dolophilodes distincta* (Walker, 1852), Philopotamus, NY;  
Philopotamus americanus Banks, 1895 (Milne, 1936);  
male genitalia (Ross, 1944; Kobayashi, 1989; Houghton, 2012);  
nets, photos of mouthparts, nets (Wallace & Malas, 1976);  
photo of net (Wallace, Webster, & Woodall, 1977);  
larva, net (Wiggins, 1977);  
adult head, thorax (Wimmer, 1979);  
protibia, male & female genitalia (Marshall & Larson, 1982);  
male & female genitalia (Schmid, 1982; Armitage, 1983; Armitage, 1991);  
eastern & central North America, NS to NC to MN (Wiggins, 1961);  
GA/NC (Wallace, Webster, & Woodall, 1977);  
NC/SC (Unzicker, Resh, & Morse, 1982);

eastern and central North America from NF to NC to MN (Schmid, 1982);  
 NF to MN to GA (Wiggins, 1977);  
 AL (Harris, 1987; Lago & Harris, 1987; Armitage, 1991; Frazer, Harris, & Ward, 1991;  
 Harris, O'Neil, & Lago, 1991; Hicks & Haynes, 2000a);  
 CT (Nelson, 1987; Downs & Godwin, 1987; Armitage, 1991; Nelson & Downs, 1995);  
 DC (Betten, 1934; Armitage, 1991);  
 DE (Lake, 1984; Armitage, 1991);  
 GA (Wallace & Malas, 1976; Wiggins, 1977; Benke & Wallace, 1980; Armitage, 1991);  
 IL (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1944; Waltz & McCafferty, 1983; Armitage, 1983; Armitage, 1991;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Armitage, 1983; Phillippi & Schuster, 1987; Armitage, 1991;  
 Etnier, Bauer, & Zirkle, 2006; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LB (Wiggins, 1961; Armitage, 1991);  
 MA (Neves, 1979; Armitage, 1991);  
 MD (Banks, 1915; Armitage, 1983; Armitage, 1991);  
 ME (Johnson, 1927; Blickle & Morse, 1966; Mingo & Gibbs, 1979; Mingo & Gibbs, 1980;  
 Armitage, 1983; Bilger, 1986; Armitage, 1991; Huryn & Harris, 2000);  
 MI (Ross, 1938; Leonard & Leonard, 1949; Ellis, 1962; Armitage, 1983; Armitage, 1991;  
 Yanoviak & McCafferty, 1996; Houghton, Brandin, & Brakel, 2011;  
 Houghton & Shoup, 2014; DeWalt & South, 2015; Houghton, 2015; Houghton, 2016;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton & Lardner, 2020; Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Ross, 1944; Wiggins, 1961; Etnier, 1965; Wiggins, 1977;  
 Lager, Johnson, Williams, & McCulloch, 1979; Schmid, 1982; Armitage, 1983;  
 Armitage, 1991; MacLean, 1995; Houghton, Holzenthal, Monson, & MacLean, 2001;  
 Houghton & Holzenthal, 2010; Zhou et al., 2011; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Etnier, 2010);  
 NB (Schmid, 1982; Armitage, 1983; Armitage, 1991; Zhou et al., 2011);  
 NC (Carpenter, 1933; Howell, 1941; Wray, 1950; Wiggins, 1961; Wallace & Malas, 1976;  
 Schmid, 1982; Armitage, 1983; Armitage & Tennessen, 1984; Huryn & Wallace, 1987;  
 Huryn & Wallace, 1988; Morse, Hamilton, & Hoffman, 1989; Armitage, 1991;  
 Floyd, Morse, & Harris, 1997; DeWalt, Jacobus, & McCafferty, 2007;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Park, 2018);  
 NF (Wiggins, 1961; Wiggins, 1977; Schmid, 1982; Marshall & Larson, 1982; Armitage, 1991);  
 NH (Morse & Blickle, 1953; Armitage, 1983; Armitage, 1991);  
 NJ (Smith, 1890; Smith, 1900; Smith, 1910; Armitage, 1983; Armitage, 1991; Zhou et al., 2011;  
 Mendez, Spagna, Holzenthal, & Houghton, 2019);  
 NS (Ross, 1944; Wiggins, 1961; Schmid, 1982; Armitage, 1983; Armitage, 1991);  
 NY (Walker, 1852; Banks, 1895; Armitage, 1983; Armitage, 1991;  
 Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (McElravy, Arsuffi, & Foote, 1977; MacLean & MacLean, 1980; Armitage, 1983;  
 Huryn & Foote, 1983; Usis & MacLean, 1986; Armitage, 1991; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Ricker, 1934; Sprules, 1947; Wiggins, 1977; Williams & Williams, 1981; Schmid, 1982;  
 Armitage, 1983; Singh, Smith, & Harrison, 1984a; Williams, Tavares, & Bryant, 1987;  
 Williams & Levens, 1988; Harper, 1989; Armitage, 1991;  
 Cordero, Sánchez-Ramírez, & Currie, 2017);  
 PA (Ross, 1941; Masteller & Flint, 1980; Masteller & Flint, 1984;  
 Swegman, Walker, & Sykora, 1981; Armitage, 1991; Masteller & Flint, 1992);  
 QC (Robert, 1958; Roy & Harper, 1975; Roy & Harper, 1979; Williams & Williams, 1979;  
 Schmid, 1982; Armitage, 1983; Harper, 1989; Armitage, 1991);

- SC (Morse, Hamilton, & Hoffman, 1989; Armitage, 1991; Floyd & Morse, 1993; Floyd, Morse, & Harris, 1997);
- TN (Carpenter, 1933; Howell, 1941; Edwards, 1966; Etnier & Schuster, 1979; Armitage, 1983; Armitage, 1991; Etnier, Baxter, Fraley, & Parker, 1998; Hamilton, Hamilton, & Lyle, 2002; DeWalt & Heinold, 2005; Etnier, Bauer, & Zirkle, 2006; Zhou et al., 2011);
- VA (Ross, 1944; Parker & Voshell, 1981; Armitage, 1983; Armitage, 1991; Flint, Hoffman, & Parker, 2004; Zhou et al., 2011; Flint, 2011);
- VT (Wimmer, 1979; Bilger, 1986; Armitage, 1991);
- WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Shapas & Hilsenhoff, 1976; Karl & Hilsenhoff, 1979; Steven & Hilsenhoff, 1984; Armitage, 1991; Hilsenhoff, 1995; Hilsenhoff, 1996; Houghton, DeWalt, Hubbard, Schumde, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- WV (Tarter, 1990; Armitage, 1991; Griffith & Perry, 1992; Griffith, Barrows, & Perry, 1998; Tarter & Floyd, 2016);
- Korea (Kobayashi, 1989).
- Dolophilodes dorca* (Ross, 1938), *Philopotamus*, ID;  
*Philopotamus oregonensis* Ling, 1938 (Ross, 1941);  
 male & female genitalia (Schmid, 1982; Armitage, 1983; Armitage, 1991);
- BC (Ross, 1938; Schmid & Guppy, 1952; Ross & Spencer, 1952; Nimmo & Scudder, 1978; Schmid, 1982; Armitage, 1983; Armitage, 1991);
- CA (Denning, 1956; Schmid, 1982; Armitage, 1983; McElravy & Resh, 1987; Armitage, 1991; Resh & Mendez, 2022);
- ID (Ross, 1938; Armitage, 1983; Armitage, 1991);
- MT (Roemhild, 1982; Armitage, 1991);
- OR (Ling, 1938; Ross & Spencer, 1952; Anderson & Wold, 1972; Anderson, 1976; Schmid, 1982; Anderson, Cooper, & Denning, 1982; Armitage, 1983; Anderson, Wisseman, & Courtney, 1984; Armitage, 1991; Finn, Johnson, Gerth, Arismendi, & Li, 2022));
- WA (Ross, 1941; Schmid, 1982; Armitage, 1983; Anderson & Wisseman, 1987; Armitage, 1991; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013).
- Dolophilodes novusamericanus* (Ling, 1938), *Philopotamus*, CA;  
 wings, male & female genitalia (Nimmo, 1974);  
 wings, male & female genitalia (Schmid, 1980; Schmid, 1982);  
 wings, male & female genitalia (Armitage, 1983; Armitage, 1991);
- CA to UT to BC (Nimmo, 1974);
- AZ (Ruiter, 1996);
- BC (Smith, 1969; Nimmo, 1974; Nimmo & Scudder, 1978; Schmid, 1982; Armitage, 1983; Armitage, 1991);
- CA (Ling, 1938; Denning, 1949; Nimmo, 1974; Schmid, 1982; Armitage, 1983; Armitage, 1991; Resh & Mendez, 2022);
- ID (Smith, 1969; Nimmo, 1974; Schmid, 1982; Armitage, 1983; Armitage, 1991);
- MT (Newell, 1970; Newell & Potter, 1973; Roemhild, 1982; Armitage, 1991);
- NV (Ruiter, Baumann, & Flint, 2014);
- OR (Denning, 1949; Nimmo, 1974; Anderson, 1976; Schmid, 1982; Anderson, Cooper, & Denning, 1982; Armitage, 1983; Anderson, Wisseman, & Courtney, 1984; Armitage, 1991);
- UT (Baumann & Unzicker, 1981; Smith, 1969; Nimmo, 1974; Schmid, 1982; Armitage, 1983; Armitage, 1991);
- WA (Denning, 1949; Nimmo, 1974; Schmid, 1982; Armitage, 1983; Armitage, 1991; Blinn & Ruiter, 2013);
- WY (Ruiter, 1996).

- Dolophilodes pallidipes* Banks, 1936, ID, MT, OR, WA;  
*Dolophilodes nora* Nimmo, 1977, AB (Schmid, 1982);  
 male & female genitalia (Schmid, 1982; Armitage, 1983;  
 Armitage, 1991);  
 AB (Schmid, 1982; Armitage, 1983; Armitage, 1991; Lonsdale, 2020);  
 AK (Smith, 1969; Vineyard, 1982; Schmid, 1982; Armitage, 1983;  
 Armitage, 1991);  
 BC (Denning, 1949; Schmid & Guppy, 1952; Ross & Spencer, 1952;  
 Hardy, 1955; Nimmo & Scudder, 1983; Schmid, 1982;  
 Armitage, 1983; Armitage, 1991);  
 CA (Denning, 1956; Schmid, 1982; Armitage, 1983; Armitage, 1991; Resh & Mendez, 2022);  
 ID (Banks, 1936; Smith, 1969; Schmid, 1982; Armitage, 1983; Armitage, 1991);  
 MT (Banks, 1936; Denning, 1949; Newell, 1970; Newell & Potter, 1973; Roemhild, 1982;  
 Schmid, 1982; Armitage, 1983; Armitage, 1991);  
 OR (Banks, 1936; Anderson, 1976; Schmid, 1982;  
 Anderson, Cooper, & Denning, 1982; Armitage, 1983;  
 Anderson, Wisseman, & Courtney, 1984;  
 Anderson & Hansen, 1987; Armitage, 1991);  
 WA (Banks, 1936; Schmid, 1982; Armitage, 1983;  
 Anderson, & Wisseman, 1987; Armitage, 1991;  
 Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013).
- Fumonta major* (Banks, 1914), *Dolophilus*, NC;  
 male genitalia (Ross, 1956; Armitage, 1983; Armitage, 1991);  
 larva, pupa (Weaver, Wojtowicz, & Etnier, 1981);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Lago & Harris, 1987; Harris, 1990; Armitage, 1991; Harris, O'Neil, & Lago, 1991);  
 GA (Weaver, Wojtowicz, & Etnier, 1981; Armitage, 1991);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Banks, 1914; Weaver, Wojtowicz, & Etnier, 1981; Armitage, 1983; Huryn & Wallace, 1988;  
 Morse, Hamilton, & Hoffman, 1989; Armitage, 1991;  
 DeWalt, Jacobus, & McCafferty, 2007;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);  
 SC (Weaver, Wojtowicz, & Etnier, 1981; Morse, Hamilton, & Hoffman, 1989; Armitage, 1991;  
 Floyd & Morse, 1993; Floyd, Morse, & Harris, 1997; Zhou et al., 2011);  
 TN (Ross, 1944; Etnier & Schuster, 1979; Weaver, Wojtowicz, & Etnier, 1981; Armitage, 1983;  
 Armitage, 1991; Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005);  
 VA (Weaver, Wojtowicz, & Etnier, 1981; Armitage, 1991; Flint, Hoffman, & Parker, 2004).
- Sisko oregona* (Denning, 1966), *Sortosa*, OR;  
 male genitalia (Armitage, 1983; Armitage, 1991);  
 OR (Denning, 1966; Anderson, 1976; Armitage, 1983; Armitage, 1991).
- Sisko sisko* (Ross, 1949), *Wormaldia*, OR;  
 male genitalia (Ross, 1956; Armitage, 1983; Armitage, 1991);  
 NC/SC (Unzicker, Resh, & Morse, 1982); [see annotation below for NC];  
 CA (Denning, 1956; Armitage, 1983; Armitage, 1991; Resh & Mendez, 2022);  
 NC (Ross, 1956; Armitage, 1983; Huryn & Wallace, 1988; Armitage, 1991; Morse et al, 1997;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);  
 [Southern Appalachian population first mentioned by Ross (1956) a distinct species  
 probably belonging to *Wormaldia* (Morse, Pers Comm)];  
 OR (Ross, 1949; Anderson, 1976; Anderson, Cooper, & Denning, 1982;  
 Armitage, 1983; Anderson, Wisseman, & Courtney, 1984;  
 Armitage, 1991);  
 SC (Armitage, 1991); [see annotation above for NC];

TN (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010); [see annotation above for NC];  
VA (Flint, Hoffman, & Parker, 2004); [see annotation above for NC].

- Wormaldia anilla* (Ross, 1941), *Dolophilus*, BC;  
male genitalia (Ross, 1956; Munoz-Quesada & Holzenthal, 2008);  
male & female genitalia (Schmid, 1982; Armitage, 1983;  
Armitage, 1991);  
BC (Ross, 1941; Ross & Spencer, 1952; Schmid, 1980; Schmid, 1982;  
Nimmo & Scudder, 1983; Armitage, 1983; Armitage, 1991);  
CA (Denning, 1956; Schmid, 1982; Armitage, 1983; Armitage, 1991; Resh & Mendez, 2022);  
ID (Munoz-Quesada & Holzenthal, 2008);  
OR (Ross, 1941; Anderson & Wold, 1972; Anderson, 1976;  
Schmid, 1982; Anderson, Cooper, & Denning, 1982;  
Armitage, 1983; Anderson, Wisseman, & Courtney, 1984;  
Anderson & Hansen, 1987; Armitage, 1991);  
WA (Schmid, 1982; Armitage, 1983; Armitage, 1991;  
Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013).
- Wormaldia arizonensis* (Ling, 1938), *Dolophilus*, AZ;  
male genitalia (Ross, 1956; Armitage, 1983; Armitage, 1991  
Munoz-Quesada & Holzenthal, 2008);  
female genitalia (Ruiter & Blinn, 2009);  
male genitalia & wings (Muñoz-Quesada & Holzenthal, 2015);  
AZ (Ling, 1938; Ross, 1941; Armitage, 1983; Armitage, 1991; Moulton, Stewart, & Young, 1994;  
Ruiter, 1996; Houghton, 2001; Blinn & Ruiter, 2006; Blinn, Ruiter, & Haden, 2012;  
Muñoz-Quesada & Holzenthal, 2015);  
NV (Ruiter, Baumann, & Flint, 2014);  
TX (Moulton & Stewart, 1997; Munoz-Quesada & Holzenthal, 2008;  
Muñoz-Quesada & Holzenthal, 2015);  
UT (Baumann & Unzicker, 1981; Armitage, 1983; Armitage, 1991;  
Muñoz-Quesada & Holzenthal, 2015);  
Mexico (Flint, 1967; Armitage, 1983; Armitage, 1991).
- Wormaldia birneyi* Munoz-Quesada & Holzenthal, 2008, CA;  
CA (Munoz-Quesada & Holzenthal, 2008; Resh & Mendez, 2022).
- Wormaldia clauseni* Munoz-Quesada & Holzenthal, 2008, BC;  
BC (Munoz-Quesada & Holzenthal, 2008).
- Wormaldia gabriella* (Banks, 1930), *Dolophiliella*, CA;  
male genitalia (Ross, 1956; Munoz-Quesada & Holzenthal, 2008);  
wings, male & female genitalia (Nimmo, 1974);  
wings, male & female genitalia (Schmid, 1980; Schmid, 1982);  
male & female genitalia (Armitage, 1983; Armitage, 1991);  
AB to CA to UT to NV (Nimmo, 1974);  
AB (Nimmo, 1974; Schmid, 1980; Schmid, 1982; Armitage, 1983; Armitage, 1991);  
BC (Schmid & Guppy, 1952; Ross & Spencer, 1952; Nimmo, 1974; Nimmo & Scudder, 1978;  
Schmid, 1980; Schmid, 1982; Armitage, 1983; Armitage, 1991);  
CA (Banks, 1930; Denning, 1956; Nimmo, 1974; Resh & Sorg, 1978; Schmid, 1982;  
Armitage, 1983; Erman, 1989; Armitage, 1991; Myers & Resh, 1999;  
Resh & Mendez, 2022);  
CO (Canton & Ward, 1981; Schmid, 1982; Armitage, 1983; Herrmann, Ruiter, & Unzicker, 1986;  
Armitage, 1991; Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
ID (Nimmo, 1974; Newell & Minshall, 1977; Schmid, 1982; Armitage, 1983; Armitage, 1991);  
MB (Munoz-Quesada & Holzenthal, 2008);  
MT (Newell, 1970; Newell & Potter, 1973; Schmid, 1982; Roemhild, 1982; Armitage, 1983;  
Armitage, 1991);  
NT (Nimmo, 1986; Armitage, 1991);  
NV (Nimmo, 1974; Schmid, 1982; Armitage, 1983; Armitage, 1991);

Ruiter, Baumann, & Flint, 2014);  
 OR (Anderson & Wold, 1972; Nimmo, 1974; Anderson, 1976; Schmid, 1982;  
 Anderson, Cooper, & Denning, 1982; Armitage, 1983;  
 Anderson, Wisseman, & Courtney, 1984; Anderson & Hansen, 1987; Armitage, 1991);  
 QC (Roy & Harper, 1979; Harper, 1989; Armitage, 1991);  
 SD (Munoz-Quesada & Holzenthal, 2008;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 UT (Knowlton & Harmston, 1939; Nimmo, 1974; Baumann & Unzicker, 1981; Schmid, 1982;  
 Armitage, 1983; Armitage, 1991);  
 WA (Smith, 1981; Armitage, 1983; Armitage, 1991;  
 Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013);  
 WY (Munoz-Quesada & Holzenthal, 2008);  
 YT (Nimmo & Wickstrom, 1984; Armitage, 1991; Wiggins & Parker, 1997).

*Wormaldia gesugta* Schmid, 1968, CA;  
 male genitalia (Armitage, 1983; Armitage, 1991; Munoz-Quesada & Holzenthal, 2008);  
 CA (Schmid, 1968; Armitage, 1983; Armitage, 1991; Lonsdale, 2020; Resh & Mendez, 2022).

*Wormaldia hamata* Denning, 1951, CA;  
 male genitalia (Ross, 1956; Armitage, 1983; Armitage, 1991;  
 Munoz-Quesada & Holzenthal, 2008);  
 CA (Denning, 1951; Armitage, 1983; Armitage, 1991; Resh & Mendez, 2022).

*Wormaldia lacerna* Denning, 1958, WA;  
 male genitalia (Armitage, 1983; Armitage, 1991; Munoz-Quesada & Holzenthal, 2008);  
 WA (Denning, 1958; Armitage, 1983; Armitage, 1991).

*Wormaldia laona* Denning, 1989, CA;  
 male genitalia (Munoz-Quesada & Holzenthal, 2008);  
 CA (Denning, 1989; Resh & Mendez, 2022).

*Wormaldia moesta* (Banks, 1914), Paragapetus, NC;  
*Dolophilus breviatus* Banks, 1914 (Milne, 1936);  
 larva (Ross, 1944);  
 male genitalia (Ross, 1956; Munoz-Quesada & Holzenthal, 2008; Houghton, 2012);  
 male & female genitalia (Schmid, 1982);  
 male & female genitalia (Armitage, 1983; Armitage, 1991);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris et al, 1983; Harris, 1987; Lago & Harris, 1987; Armitage, 1991;  
 Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996;  
 Harris & O'Neil, 2015);  
 AR (Schmid, 1982; Armitage, 1983; Bowles & Mathis, 1989; Armitage, 1991;  
 Bowles & Allen, 1992; Moulton & Stewart, 1996; Bowles, 2020;  
 Bowles, Cheri, Usrey, & Williams, 2020);  
 CT (Nelson, 1987; Armitage, 1991; Nelson & Downs, 1995; Moulton & Stewart, 1996);  
 DE (Lake, 1984; Armitage, 1991; Moulton & Stewart, 1996);  
 FL (Harris, Lago, & Scheiring, 1982; Armitage, 1983;  
 Gordon, 1984; Armitage, 1991; Pescador, Rasmussen, & Harris, 1995, 2004;  
 Moulton & Stewart, 1996);  
 GA (Ross, 1944; Schmid, 1982; Armitage, 1983; Armitage, 1991;  
 Moulton & Stewart, 1996);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1944; Schmid, 1982; Armitage, 1983; Armitage, 1991; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1944; Schmid, 1982; Waltz & McCafferty, 1983; Armitage, 1983; Armitage, 1991;  
 Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Armitage, 1983; Armitage, 1991; Moulton & Stewart, 1996;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MA (Neves, 1979; Armitage, 1991; Moulton & Stewart, 1996; Whitmore 2008);  
 MB (Cobb, Flannagan, & Friesen, 1984; Armitage, 1991; Moulton & Stewart, 1996);  
 MD (Munoz-Quesada & Holzenthal, 2008);  
 ME (Procter, 1946; Blickle & Morse 1966; Armitage, 1983; Armitage, 1991;  
     Moulton & Stewart, 1996);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton, 2022;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1968; Armitage, 1991; Moulton & Stewart, 1996;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Harris & Lawrence, 1978; Mathis & Bowles, 1992; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Lago, Holzenthal, & Harris, 1982; Armitage, 1983; Armitage, 1991;  
     Moulton & Stewart, 1996);  
 NB (Schmid, 1982; Armitage, 1983; Armitage, 1991; Moulton & Stewart, 1996;  
     Zhou et al., 2011);  
 NC (Banks, 1914; Wray, 1950; Schmid, 1982; Armitage, 1983; Huryn & Wallace, 1987;  
     Huryn & Wallace, 1988; Morse, Hamilton, & Hoffman, 1989; Armitage, 1991;  
     Moulton & Stewart, 1996; Floyd, Morse, & Harris, 1997;  
     DeWalt, Jacobus, & McCafferty, 2007;  
     Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);  
 NF (Marshall & Larson, 1982; Armitage, 1991; Moulton & Stewart, 1996);  
 NH (Munroe, 1951; Armitage, 1983; Armitage, 1991; Moulton & Stewart, 1996);  
 NJ (Ross, 1941; Armitage, 1983; Armitage, 1991; Moulton & Stewart, 1996;  
     Mendez, Spagna, Holzenthal, & Houghton, 2019);  
 NS (Banks, 1930; Schmid, 1980; Schmid, 1982; Armitage, 1983; Armitage, 1991;  
     Moulton & Stewart, 1996);  
 NT (Wiens, 1975);  
 NY (Banks, 1914; Ross, 1941; Schmid, 1982; Armitage, 1983; Armitage, 1991;  
     Moulton & Stewart, 1996; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Ross, 1944; Schmid, 1982; Huryn & Foote, 1983; Armitage, 1983; Armitage, 1991;  
     Moulton & Stewart, 1996; Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Bowles & Mathis, 1992; Moulton & Stewart, 1996);  
 ON (Ross, 1944; Sprules, 1947; Schmid, 1980; Schmid, 1982; Armitage, 1983;  
     Singh, Smith, & Harrison, 1984a; Singh, Smith, & Harrison, 1984b; Armitage, 1991;  
     Moulton & Stewart, 1996; Zhou et al., 2011);  
 PA (Ross, 1941; Hyland, 1948; Masteller & Flint, 1980; Masteller & Flint, 1984; Schmid, 1982;  
     Armitage, 1983; Armitage, 1991; Masteller & Flint, 1992; Moulton & Stewart, 1996;  
     Hoenig, Trevelline, Nuttle, & Porter, 2021);  
 QC (Robert, 1958; Roy & Harper, 1975; Roy & Harper, 1979; Schmid, 1980; Schmid, 1982;  
     Armitage, 1983; Armitage, 1991; Moulton & Stewart, 1996);  
 SC (Morse, Hamilton, & Hoffman, 1989; Armitage, 1991; Floyd & Morse, 1993;  
     Moulton & Stewart, 1996; Floyd, Morse, & Harris, 1997);  
 TN (Carpenter, 1933; Edwards, 1966; Etnier & Schuster, 1979; Schmid, 1982; Armitage, 1983;  
     Armitage, 1991; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998;  
     DeWalt & Heinold, 2005; Zhou et al., 2011);  
 VA (Ross, 1944; Parker & Voshell, 1981; Schmid, 1982; Armitage, 1983; Armitage, 1991;  
     Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004; Zhou et al., 2011;  
     Flint, 2011);  
 VT (Wimmer, 1979; Armitage, 1991; Moulton & Stewart, 1996);  
 WI (Ross, 1944; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Karl & Hilsenhoff, 1979;  
     Schmid, 1983; Armitage, 1983; Armitage, 1991; Hilsenhoff, 1995;  
     Moulton & Stewart, 1996);

- Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Ross, 1944; Armitage, 1983; Tarter, 1990; Armitage, 1991; Griffith & Perry, 1992;  
 Griffith, Barrows, and Perry, 1998; Moulton & Stewart, 1996; Tarter & Floyd, 2016).
- Wormaldia mohri* (Ross, 1948), Gatlinia, NC;  
 male genitalia (Ross, 1956; Armitage, 1983; Armitage, 1991;  
 Munoz-Quesada & Holzenthal, 2008);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 NC (Ross, 1948; Armitage, 1983; Armitage, 1991; Morse et al, 1997;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);  
 SC (Armitage, 1991);  
 TN (Ross, 1948; Armitage, 1983; Armitage, 1991; Morse et al, 1997;  
 Etnier, Baxter, Fraley, & Parker, 1998; Zhou et al., 2011);  
 VA (Flint, Hoffman, & Parker, 2004).
- Wormaldia occidea* (Ross, 1938), Dolophilus, OR;  
 Dolophilus cruzensis Ling, 1938, CA (Ross, 1958);  
 male genitalia (Ross, 1956; Munoz-Quesada & Holzenthal, 2008);  
 forewing (Schmid, 1980);  
 forewing, male genitalia (Schmid, 1982);  
 male genitalia (Armitage, 1983; Armitage, 1991);  
 AK (Munoz-Quesada & Holzenthal, 2008);  
 BC (Nimmo & Scudder, 1978; Nimmo & Scudder, 1983; Schmid, 1982;  
 Armitage, 1983; Armitage, 1991);  
 CA (Ling, 1938; Denning, 1956; Schmid, 1982; Armitage, 1983; McElravy & Resh, 1987;  
 Erman, 1989; Erman & Erman, 1990; Armitage, 1991; Erman, 1998;  
 Resh & Mendez, 2022);  
 MT (Newell & Potter, 1973; Schmid, 1982; Roemhild, 1982;  
 Armitage, 1983; Jones & Resh, 1988; Armitage, 1991);  
 OR (Ross, 1938; Anderson, 1976; Schmid, 1982; Armitage, 1983;  
 Anderson, Wisseman, & Courtney, 1984; Armitage, 1991);  
 WA (Schmid, 1982; Armitage, 1983; Armitage, 1991;  
 Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013).
- Wormaldia oconee* Morse, 1989, SC [in the work of  
 Morse, Hamilton, & Hoffman, 1989]; SC  
 male genitalia (Armitage, 1991; Munoz-Quesada & Holzenthal, 2008);  
 NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 SC (Morse, Hamilton, & Hoffman, 1989; Armitage, 1991;  
 Morse et al, 1997).
- Wormaldia pachita* Denning, 1956, CA;  
 male genitalia (Armitage, 1983; Armitage, 1991; Munoz-Quesada & Holzenthal, 2008);  
 CA (Denning, 1956; Armitage, 1983; Erman & Erman, 1990; Armitage, 1991;  
 Resh & Mendez, 2022).
- Wormaldia planae* Ross & King, 1956, Mexico (in Ross, 1956);  
*Wormaldia arcopa* Denning, 1966, in Denning & Sykora, 1966, Panama  
 (Muñoz-Quesada & Holzenthal, 2015);  
 male genitalia (Munoz-Quesada & Holzenthal, 2008);  
 male genitalia & wings (Muñoz-Quesada & Holzenthal, 2015);  
 AZ (Munoz-Quesada & Holzenthal, 2008; Muñoz-Quesada & Holzenthal, 2015);  
 Mexico, Guatemala, Panama, Colombia, Venezuela, Brazil, Ecuador,  
 Trinidad, Tobago, Grenada (Flint, 1991).
- Wormaldia shawnee* (Ross, 1938), Dolophilus, IL;  
 larva (Ross, 1944);  
 male genitalia (Armitage, 1983; Armitage, 1991; Munoz-Quesada & Holzenthal, 2008);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Lago & Harris, 1987; Harris, 1990; Armitage, 1991; Frazer, Harris, & Ward, 1991;  
 Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Zhou et al., 2011);



- CT (Munoz-Quesada & Holzenthal, 2008);  
 IL (Ross, 1938; Armitage, 1983; Armitage, 1991; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Ross, 1944; Resh, 1975; Armitage, 1983; Floyd & Schuster, 1990; Armitage, 1991;  
     Moulton & Stewart, 1996; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Armitage, 1991; Moulton & Stewart, 1996;  
     Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Morse & Blickle, 1953; Armitage, 1983; Armitage, 1991; Moulton & Stewart, 1996);  
 OH (McElravy, Arsuffi, & Foote, 1977; Huryh & Foote, 1983; Armitage, 1983;  
     Usis & MacLean, 1986; Armitage, 1991; Moulton & Stewart, 1996;  
     Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 PA (Swegman, Walker, & Sykora, 1981; Armitage, 1991; Masteller & Flint, 1992;  
     Moulton & Stewart, 1996);  
 SC (Armitage, 1991; Moulton & Stewart, 1996);  
 TN (Edwards, 1966, uncertain record according to Etnier & Schuster, 1979; Armitage, 1983;  
     Armitage, 1991; Moulton & Stewart, 1996;  
     Wiggins, Etnier, Grant, Lambdin, & Mayor, 2001, new record;  
     Etnier, Bauer, & Zirkle, 2006);  
 VA (Parker & Voshell, 1981; Armitage, 1983; Armitage, 1991;  
     Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004);  
 WI (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Munoz-Quesada & Holzenthal, 2008; Tarter & Floyd, 2016).
- Wormaldia strota* Ross, 1938, OK;  
 male genitalia (Armitage, 1983; Armitage, 1991; Munoz-Quesada & Holzenthal, 2008);  
 AR (Bowles & Mathis, 1989; Armitage, 1991; Moulton & Stewart, 1996;  
     Bowles, Cheri, Usrey, & Williams, 2020);  
 MO (Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Ross, 1938; Armitage, 1983; Armitage, 1991; Bowles & Mathis, 1992;  
     Moulton & Stewart, 1996).
- Wormaldia thyria* Denning, 1950, NC;  
 male genitalia (Ross, 1956; Armitage, 1983; Armitage, 1991;  
     Munoz-Quesada & Holzenthal, 2008);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Denning, 1950; Armitage, 1983; Morse, Hamilton, & Hoffman, 1989; Armitage, 1991;  
     Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 SC (Morse et al, 1979; Morse, Hamilton, & Hoffman, 1989; Armitage, 1991;  
     Floyd & Morse, 1993; Floyd, Morse, & Harris, 1997);  
 TN (Etnier & Schuster, 1979; Armitage, 1991; Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Parker & Voshell, 1981; Armitage, 1983; Armitage, 1991; Flint, Hoffman, & Parker, 2004).

Phryganeidae (10 genera, 28 species) —Giant Caddisflies

- Agrypnia colorata* Hagen, 1873, SK;  
*Prophryganea bradorata* Milne, 1931, Canada (Ross, 1944);  
 male & female genitalia (Milne, 1931);  
 male genitalia (Marshall & Larson, 1982);  
 tibial spurs, wings, male & female genitalia (Wiggins, 1998);

photos of larva & case, head & thorax (Ruiter, Boyle, & Zhou, 2013);  
 AB (Wiggins, 1998);  
 AK (Wiggins, 1998);  
 BC (Ross & Spencer, 1952; Wiggins, 1998);  
 CO (Ruiter, 1990; Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 MB (Neave, 1934; Betten, 1934; Flannagan & Flannagan, 1982; Wiggins, 1998;  
     Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010;  
     Ruiter, Boyle, & Zhou, 2013; Chatila-Amos, 2021);  
 MI (Wiggins, 1998;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (MacLean, 1995, misidentification according to  
     Houghton, Holzenthal, Monson, & MacLean, 2001, & Houghton, 2012);  
 MT (Roemhild, 1982; Wiggins, 1998);  
 ND (Harris, Lago, & Carlson, 1980; Wiggins, 1998;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Wiggins, 1961; Wiggins, 1998);  
 NT (Nimmo, 1986; Wiggins, 1998);  
 NY (McCabe, 1986);  
 ON (Wiggins, 1998);  
 QC (Betten, 1934; Roy & Harper, 1979; Harper, 1989; Wiggins, 1998; Lonsdale, 2020);  
 SK (Hagen, 1873; Wiggins, 1998);  
 UT (Baumann & Unzicker, 1981);  
 WY (Ruiter & Lavigne, 1985; Wiggins, 1998);  
 YT (Wiggins & Parker, 1997; Wiggins, 1998).

*Agrypnia deflata* (Milne, 1931), Prophryganea, SK;  
 male & female genitalia (Marshall & Larson, 1982; Wiggins, 1998);  
 male genitalia (Houghton, 2012);  
 photos of larva & case, head & thorax (Ruiter, Boyle, & Zhou, 2013);  
 AB (Milne, 1931; Wiggins, 1998);  
 AK (Nimmo, 1986; Wiggins, 1998);  
 BC (Nimmo & Scudder, 1978; Nimmo & Scudder, 1983; Wiggins, 1998);  
 CO (Herrmann, Ruiter, & Unzicker, 1986; Ruiter, 1996; Wiggins, 1998;  
     Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
     Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
 MB (Wiggins, 1998; Ruiter, Boyle, & Zhou, 2013; Chatila-Amos, 2021);  
 MN (Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Wiggins, 1998);  
 ND (Harris, Lago, & Carlson, 1980; Wiggins, 1998;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Marshall & Larson, 1982; Wiggins, 1998);  
 NM (Wiggins, 1998);  
 NT (Nimmo, 1986; Wiggins, 1998; Cordero, Sánchez-Ramírez, & Currie, 2017);  
 ON (Wiggins, 1998);  
 QC (Roy & Harper, 1979; Harper, 1989; Harper, 1990; Wiggins, 1998);  
 SK (Milne, 1931; Wiggins, 1998; Lonsdale, 2020);  
 UT (Baumann & Unzicker, 1981; Wiggins, 1998);  
 WY (Ruiter & Lavigne, 1985; Ruiter, 1996; Wiggins, 1998);  
 YT (Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997; Wiggins, 1998);

*Agrypnia glacialis* Hagen, 1873, LB;  
*Asynarchus alascensis* Banks, 1900, AK (Betten, 1934);  
*Agrypnia dextra* Ross, 1938 (Wiggins, 1998);  
 male genitalia (Denning, 1956; Houghton, 2012);  
 photo male, male & female genitalia (Wiggins, 1998);

photos of larva, head, thorax (Ruiter, Boyle, & Zhou, 2013);  
 AB (Wiggins, 1998);  
 AK (Banks, 1900; Vineyard, 1982; Wiggins, 1998);  
 BC (Nimmo & Scudder, 1978; Nimmo & Scudder, 1983; Wiggins, 1998);  
 CA (Denning, 1956; Wiggins, 1998; Resh & Mendez, 2022);  
 CO (Herrmann, Ruiter, & Unzicker, 1986; Ruiter, 1996; Wiggins, 1998;  
     Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
     Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
 ID (Ross, 1938; Newell & Minshall, 1977; Wiggins, 1998);  
 LB (Hagen, 1873);  
 MA (Johnson, 1930);  
 MB (Betten, 1934; Flannagan & Flannagan, 1982; Wiggins, 1998; Ruiter, Boyle, & Zhou, 2013;  
     Chatila-Amos, 2021);  
 MN (Etnier, 1965; Wiggins, 1998;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Roemhild, 1982);  
 ND (Harris, Lago, & Carlson, 1980;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Marshall & Larson, 1982; Wiggins, 1998);  
 NT (Wiggins, 1998);  
 NV (Ruiter, Baumann, & Flint, 2014);  
 NY (Sibley, 1926; Wiggins, 1998);  
 ON (Wiggins, 1998);  
 QC (Roy & Harper, 1979; Harper, 1989; Wiggins, 1998;  
     Cordero, Sánchez-Ramírez, & Currie, 2017);  
 SK (Wiggins, 1998);  
 UT (Ross, 1944; Baumann & Unzicker, 1981; Wiggins, 1998);  
 WA (Wiggins, 1998);  
 WI (Wiggins, 1998;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WY (Ruiter & Lavigne, 1985; Wiggins, 1998);  
 YT (Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997;  
     Wiggins, 1998);  
 Greenland (Vibe, 1950; Wiggins & Parker, 1997; Wiggins, 1998).  
*Agrypnia improba* (Hagen, 1873) NY or SK or Hudson Bay;  
 larva, case (Wiggins, 1977);  
 male & female genitalia (Marshall & Larson, 1982);  
 male & female genitalia, larva, case, pupal mandible (Wiggins, 1998);  
 male genitalia (Houghton, 2012);  
 photos of larva & case, head & thorax (Ruiter, Boyle, & Zhou, 2013);  
 BC to NF to NC (Wiggins, 1960);  
 Hudson Bay, New England (Hagen, 1873);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AB (Wiggins, 1998);  
 AK (Wiggins, 1998);  
 AL (Harris & Lago, 1990; Harris, O'Neil, & Lago, 1991);  
 BC (Ross & Spencer, 1952; Wiggins, 1960; Flannagan & MacDonald, 1987; Wiggins, 1998);  
 ID (Wiggins, 1998);  
 MA (Wiggins, 1998);  
 MB (Flannagan & Flannagan, 1982; Flannagan & MacDonald, 1987; Wiggins, 1998;  
     Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruiter, Boyle, & Zhou, 2013;  
     Chatila-Amos, 2021);  
 ME (Banks, 1943; Blickle & Morse, 1966; Wiggins, 1998; Hury & Harris, 2000);  
 MI (Harris, O'Neil, & Lago, 1991; Wiggins, 1998; Houghton, Brandin, & Brakel, 2011);

Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton & Lardner, 2020; Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Lager, Johnson, Williams, & McCullough, 1979; MacLean, 1995;  
 Ruiter, 1996; Wiggins, 1998; Monson, 1997;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2004a; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Newell & Potter, 1973; Roemhild, 1982);  
 NC (Wiggins, 1960; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 ND (Harris, Lago, & Carlson, 1980; Wiggins, 1998;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Wiggins, 1960; Wiggins, 1961; Marshall & Larson, 1982; Flannagan & MacDonald, 1987;  
 Wiggins, 1998);  
 NH (Banks, 1943; Wiggins, 1998);  
 NS (Wiggins, 1998);  
 NT (Nimmo, 1986; Flannagan & MacDonald, 1987; Wiggins, 1998);  
 NY (Hagen, 1873; Banks, 1943; Wiggins, 1998; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 ON (Wiggins, 1977; Flannagan & MacDonald, 1987);  
 OR (Anderson, 1976; Wiggins, 1998);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979; Williams & Williams, 1979;  
 Flannagan & MacDonald, 1987; Harper, 1989; Wiggins, 1998);  
 SK (Hagen, 1873; Flannagan & MacDonald, 1987; Wiggins, 1998);  
 TN (Harris, O'Neil, & Lago, 1991, dubious according to Etnier, Baxter, Fraley, & Parker, 1998);  
 UT (Baumann & Unzicker, 1981);  
 VT (Wimmer, 1979; Bilger, 1986);  
 WA (Wiggins, 1998; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005);  
 WI (Wiggins, 1998;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WY (Wiggins, 1998);  
 YT (Nimmo & Wickstrom, 1984; Wiggins, 1998).  
*Agrypnia macdunnoughi* (Milne, 1931), Prophryganea, AB;  
 male & female genitalia (Marshall & Larson, 1982);  
 photo male, male & female genitalia (Wiggins, 1998);  
 male genitalia (Houghton, 2012);  
 northern transcontinental North America, NF, LB (Wiggins, 1961);  
 AB (Milne, 1931; Lonsdale, 2020);  
 AK (Wiggins, 1998);  
 BC (Nimmo & Scudder, 1983; Wiggins, 1998);  
 LB (Wiggins, 1961);  
 MB (Resh, Rosenberg, & Wiens, 1983; Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010;  
 Ruiter, Boyle, & Zhou, 2013);  
 ME (Wiggins, 1998);  
 MI (Wiggins, 1998;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; MacLean, 1995; Wiggins, 1998;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ND (Harris, Lago, & Carlson, 1980;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Wiggins, 1961; Marshall & Larson, 1982; Wiggins, 1998);  
 NS (Wiggins, 1998);  
 ON (Wiggins, 1998);  
 QC (Roy & Harper, 1979; Harper, 1989; Wiggins, 1998);  
 YT (Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997);

- Wiggins, 1998).
- Agrypnia obsoleta* (Hagen, 1864), Prophyrganea, Russia, Siberia, Germany;  
 larval mandibles, case (Lepneva, 1964/70);  
 male & female genitalia (Tobias & Tobias, 1981; Wiggins, 1998);  
 MB (Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruitter, Boyle, & Zhou, 2013);  
 MN (MacLean, 1995, considered invalid by Houghton, Holzenthal, Monson, & MacLean, 2001);  
 YT (Wiggins & Parker, 1997; Wiggins, 1998; Kendrick & Huryn, 2014);  
 Europe (Tobias & Tobias, 1981);  
 Finland (Wiggins, 1998);  
 Germany (Hagen, 1864; Wiggins, 1998);  
 The Netherlands (Wiggins, 1998);  
 Sweden (Wiggins, 1998);  
 Switzerland (Wiggins, 1998);  
 United Kingdom (Wiggins, 1998);  
 Palearctic region (Lepneva, 1966/71).  
 Mongolia (Wiggins, 1998);  
 Russia (Siberia) (Hagen, 1864);
- Agrypnia pagetana* Curtis, 1835, Britain;  
*Agrypnia pagetana nearctica* Milne, 1934, North America  
 (Ross, 1944);  
 pupal abdominal hooks, anal appendages (Lepneva, 1964/70);  
 larva, case (Lepneva, 1966/71; Hickin, 1967);  
 female genitalia (Nielsen, 1978; Nielsen, 1980);  
 wings, male & female genitalia (Tobias & Tobias, 1981);  
 photo male, wings, male & female genitalia, larva (Wiggins, 1998);  
 photos of larva & case, head, thorax (Ruitter, Boyle, & Zhou, 2013);  
 photo of larva (Chatila-Amos, 2021);  
 AB (Milne, 1934; Flannagan & MacDonald, 1987; Wiggins, 1998);  
 AK (Wiggins, 1998);  
 BC (Nimmo & Scudder, 1978; Wiggins, 1998);  
 MB (Wiggins, 1960; Flannagan & Flannagan, 1982;  
 Flannagan & MacDonald, 1987; Wiggins, 1998; Ruitter, Boyle, & Zhou, 2013;  
 Chatila-Amos, 2021);  
 NT (Wiggins, 1960; Lehmkuhl & Kerst, 1979; Nimmo, 1986; Flannagan & MacDonald, 1987;  
 Wiggins, 1998; Cordero, Sánchez-Ramírez, & Currie, 2017);  
 ON (Wiggins, 1998);  
 SK (Wiggins, 1998);  
 WA (Ross, 1941; Wiggins, 1998);  
 YT (Wiggins & Parker, 1997; Wiggins, 1998; Kendrick & Huryn, 2014);  
 Palearctic region (Wiggins, 1960);  
 Palearctic Region, China (Lepneva, 1966/71);  
 Britain (Curtis, 1835; Hickin, 1967);  
 Europe (Tobias & Tobias, 1981).
- Agrypnia sahlbergi* (McLachlan, 1880), Phryganea, Siberia;  
 male & female genitalia (Wiggins, 1998);  
 AK (Wiggins, 1998; Kendrick & Huryn, 2014);  
 BC (Nimmo & Scudder, 1978);  
 YT (Wiggins & Parker, 1997; Wiggins, 1998);  
 Siberia (McLachlan, 1880).
- Agrypnia straminea* Hagen, 1873, SK;  
*Agrypnetes curvata* Banks, 1900, MN (Ross, 1944);  
*Phryganomyia obscura* Banks, 1907, MN (Ross, 1944);  
 male genitalia (Ross, 1944);  
 larva (Ross, 1944, as *Banksiola selina* but probably this species –  
 Wiggins, 1977; Wiggins, 1960);

male & female genitalia, larva (Wiggins, 1998);  
 male genitalia & photo of adult (Houghton, 2012);  
 photos of larva & case, head & thorax (Ruiter, Boyle, & Zhou, 2013);  
 NT to NF to IL (Wiggins, 1960);  
 AB (Wiggins, 1998);  
 AK (Ross, 1944; Flannagan & MacDonald, 1987; Wiggins, 1998);  
 BC (Nimmo & Scudder, 1983; Wiggins, 1998);  
 CO (Ross, 1944; Herrmann, Ruiter, & Unzicker, 1986; Wiggins, 1998;  
     Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
     Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
 IL (Betten, 1934; Elkins, 1936; Wiggins, 1960; Wiggins, 1998;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LB (Wiggins, 1961);  
 MB (Neave, 1934; Flannagan & Lawler, 1972; Flannagan, 1978; Lehmkuhl & Kerst, 1979;  
     Flannagan & Flannagan, 1982; Resh, Rosenberg, & Wiens, 1983;  
     Flannagan & MacDonald, 1987; Wiggins, 1998;  
     Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruiter, Boyle, & Zhou, 2013;  
     Chatila-Amos, 2021);  
 ME (Blickle & Morse, 1966; Wiggins, 1998; Huryn & Harris, 2000);  
 MI (Ross, 1944; Leonard & Leonard, 1949; Ellis, 1962;  
     Wiggins, 1998; DeWalt & South, 2015;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Banks, 1900; Banks, 1907; Elkins, 1936; Etnier, 1965;  
     Monson, 1997; Wiggins, 1998;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Newell & Potter, 1973; Roemhild, 1982);  
 ND (Harris, Lago, & Carlson, 1980; Wiggins, 1998;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Wiggins, 1960; Wiggins, 1961; Flannagan & MacDonald, 1987; Wiggins, 1998);  
 NT (Wiggins, 1960; Nimmo, 1986; Flannagan & MacDonald, 1987; Wiggins, 1998);  
 NY (Betten, 1926; Betten, 1934; Wiggins, 1998; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Usis & MacLean, 1986; Garono & MacLean, 1988; Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Harper, 1989; Wiggins, 1998);  
 QC (Ross, 1944; Robert, 1958; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1979;  
     Flannagan & MacDonald, 1987; Harper, 1989; Wiggins, 1998;  
     Cordero, Sánchez-Ramírez, & Currie, 2017);  
 SK (Hagen, 1873; Flannagan & MacDonald, 1987; Wiggins, 1998);  
 WI (Ross, 1944; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
     Hilsenhoff, 1995; Wiggins, 1998;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WY (Ruiter & Lavigne, 1985; Wiggins, 1998);  
 YT (Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997; Wiggins, 1998).  
*Agrypnia vestita* (Walker, 1852), Neuronina, GA;  
*Neuronina commixta* Walker, 1852, GA (Betten & Mosely, 1940);  
 male & female genitalia (Ross, 1944);  
 male & female genitalia (Schmid, 1980; Marshall & Larson, 1982);  
 photo male, male & female genitalia, larva (Wiggins, 1998);  
 male genitalia (Houghton, 2012);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 ND to ME to AL to SC (Wiggins, 1960);  
 AB (Hamilton & Schuster, 1980; Moulton & Stewart, 1996);

AL (Wiggins, 1960; Hamilton & Schuster, 1980; Harris, O'Neil, & Lago, 1984; Harris, 1987; Harris & Lago, 1990; Harris, 1990; Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Wiggins, 1998; Hicks & Haynes, 2000a; Hicks & Haynes, 2000b; Zhou et al., 2011);

AR (Unzicker, Aggus, & Warren, 1970; Hamilton & Schuster, 1980; Board, 1987; Bowles & Mathis, 1989; Moulton & Stewart, 1996; Wiggins, 1998; Etnier, 2010; Bowles, Cheri, Usrey, & Williams, 2020);

BC (Nimmo & Scudder, 1983; Moulton & Stewart, 1996; Wiggins, 1998);

CT (Britton, 1938; Nelson, 1987; Nelson & Downs, 1995; Moulton & Stewart, 1996; Wiggins, 1998);

DC (Banks, 1904; Hamilton & Schuster, 1980; Moulton & Stewart, 1996);

DE (Lake, 1984; Moulton & Stewart, 1996);

FL (Harris, O'Neil, & Lago, 1991; Pescador, Rasmussen, & Harris, 1995, 2004; Moulton & Stewart, 1996; Wiggins, 1998; Denson, Rasmussen, & Harris, 2016);

GA (Walker, 1852; Hamilton & Schuster, 1980; Moulton & Stewart, 1996; Wiggins, 1998; Zhou et al., 2011);

IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

IL (Ross, 1944; Hamilton & Schuster, 1980; Moulton & Stewart, 1996; Wiggins, 1998; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

IN (Ross, 1944; Hamilton & Schuster, 1980; Waltz & McCafferty, 1983; Moulton & Stewart, 1996; DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

KS (Hamilton & Schuster, 1980; Moulton & Stewart, 1996; Wiggins, 1998; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

KY (Resh, 1975; Floyd & Schuster, 1990; Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006; Zhou et al., 2011; Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

LB (Hamilton & Schuster, 1980);

MA (Hagen, 1873; Neves, 1979; Hamilton & Schuster, 1980; Moulton & Stewart, 1996; Wiggins, 1998);

MB (Flannagan & Lawler, 1972; Flannagan & Flannagan, 1982; Flannagan & MacDonald, 1987; Moulton & Stewart, 1996);

MD (Wiggins, 1998);

ME (Procter, 1946; Wiggins, 1960; Blicke & Morse, 1966; Hamilton & Schuster, 1980; Moulton & Stewart, 1996; Wiggins, 1998; Hury & Harris, 2000);

MI (Leonard & Leonard, 1949; Hamilton & Schuster, 1980; Davis, Hudson, & Armitage, 1991; Moulton & Stewart, 1996; Wiggins, 1998; Houghton, Brandin, & Brakel, 2011; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018; Houghton, 2022; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MN (Etnier, 1965; Hamilton & Schuster, 1980; MacLean, 1995; Moulton & Stewart, 1996; Monson, 1997; Wiggins, 1998; Houghton, Holzenthal, Monson, & MacLean, 2001; Zhou et al., 2011; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Wiggins, 1998; Ferro & Sites, 2007; Bowles, 2020; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MS (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996; Wiggins, 1998);

MT (Wiggins, 1998);

NB (Wiggins, 1998);

NC (Banks, 1908; Wray, 1950; Hamilton & Schuster, 1980; Moulton & Stewart, 1996; Wiggins, 1998);

Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 ND (Wiggins, 1960; Harris, Lago, & Carlson, 1980; Hamilton & Schuster, 1980;  
 Moulton & Stewart, 1996; Wiggins, 1998;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NE (Wiggins, 1998;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Marshall & Larson, 1982; Flannagan & MacDonald, 1987; Moulton & Stewart, 1996;  
 Wiggins, 1998);  
 NH (Morse & Blickle, 1953; Hamilton & Schuster, 1980; Moulton & Stewart, 1996;  
 Wiggins, 1998);  
 NJ (Smith, 1900; Smith, 1910; Moulton & Stewart, 1996; Wiggins, 1998);  
 NS (Wiggins, 1998);  
 NT (Nimmo, 1986; Moulton & Stewart, 1996);  
 NY (Hagen, 1873; Betten, 1901; Hamilton & Schuster, 1980; McCabe, 1986;  
 Moulton & Stewart, 1996; Wiggins, 1998; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Ross, 1944; Hamilton & Schuster, 1980; MacLean & MacLean, 1980; Huryn & Foote, 1983;  
 MacLean & MacLean, 1984; Usis & MacLean, 1986; Garono & MacLean, 1988;  
 Moulton & Stewart, 1996; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Bowles & Mathis, 1992; Moulton & Stewart, 1996; Wiggins, 1998);  
 ON (Flannagan & MacDonald, 1987; Harper, 1989; Moulton & Stewart, 1996; Wiggins, 1998;  
 Zhou et al., 2011);  
 OR (Denning, 1971; Anderson, 1976; Hamilton & Schuster, 1980; Moulton & Stewart, 1996;  
 Wiggins, 1998);  
 PA (Ross, 1941; Hamilton & Schuster, 1980; Swegman, Walker, & Sykora, 1981;  
 Masteller & Flint, 1992; Moulton & Stewart, 1996; Wiggins, 1998);  
 QC (Nimmo, 1966; Corbet, Schmid, & Augustin, 1961; Roy & Harper, 1975; Roy & Harper, 1979;  
 Hamilton & Schuster, 1980; Flannagan & MacDonald, 1987;  
 Harper, 1989; Moulton & Stewart, 1996; Wiggins, 1998);  
 SC (Wiggins, 1960; Morse, Chapin, Herlong, & Harvey, 1980; Hamilton & Schuster, 1980;  
 Morse, Hamilton & Hoffman, 1989; Moulton & Stewart, 1996; Wiggins, 1998);  
 TN (Döhler, 1915; Etnier & Schuster, 1979; Hamilton & Schuster, 1980;  
 Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998;  
 Etnier, Bauer, & Zirkle, 2006);  
 TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);  
 VA (Parker & Voshell, 1981; Moulton & Stewart, 1996; Wiggins, 1998;  
 Flint, Hoffman, & Parker, 2008);  
 VT (Wimmer, 1979; Bilger, 1986; Moulton & Stewart, 1996);  
 WA (Wiggins, 1998);  
 WI (Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hilsenhoff, 1995;  
 Moulton & Stewart, 1996; Wiggins, 1998;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Hill, Cremeans, Rousch, & Tarter, 1978; Tarter & Hill, 1979; Tarter, 1990;  
 Moulton & Stewart, 1996; Tarter & Floyd, 2016).

*Banksiola calva* Banks, 1943, MA;  
 male & female genitalia, wings (Wiggins, 1998);  
 CT (Nelson & Downs, 1995);  
 MA (Banks, 1943; Banks, 1951; Wiggins, 1998);  
 NH (Morse & Blickle, 1953; Wiggins, 1998);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011).

*Banksiola concatenata* (Walker, 1852), Neuronina, GA;  
*Banksiola cornuta* Banks, 1951, MA (Wiggins, 1956);  
 photo male, male & female genitalia (Wiggins, 1998);  
 Hudson Bay (Ulmer, 1907);



NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Wiggins, 1956; Harris & Lago, 1990; Harris, 1990;  
     Harris, O'Neil, & Lago, 1991; Wiggins, 1998; Harris & O'Neil, 2015);  
 CT (Britton, 1920; Britton, 1938);  
 FL (Walker, 1852; Hagen, 1861; Harris, Lago, & Scheiring, 1982;  
     Scheiring, 1985; Pescador, Rasmussen, & Harris, 1995, 2004; Wiggins, 1998;  
     Rasmussen, 2004);  
 GA (Walker, 1852; Wiggins, 1998);  
 IL (Betten, 1934);  
 MA (Hagen, 1873; Banks, 1951; Neves, 1979; Wiggins, 1998);  
 MB (Hagen, 1861; Neave, 1934; Flannagan & Flannagan, 1982);  
 ME (Blickle & Morse, 1966);  
 MI (Needham, 1907);  
 NH (Morse & Blickle, 1953);  
 NJ (Smith, 1900; Smith, 1910; Wiggins, 1998);  
 NS (Banks, 1930);  
 NY (Betten, 1926; Betten, 1934; Wiggins, 1998; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979);  
 SC (Morse, Chapin, Herlong, & Harvey, 1980; Wiggins, 1998).  
*Banksiola crotchi* Banks, 1943, BC;  
*Banksiola selina* Betten, 1944, IL (Wiggins, 1956);  
*Phryganeid* Genus A Ross, 1944, Ross, 1959, IL (Wiggins, 1977);  
 male & female genitalia (Wiggins, 1956);  
 photos of larva, case (Anderson, 1976);  
 larva, case (Wiggins, 1977);  
 adult head, pro- and mesothorax (Wimmer, 1979);  
 male & female genitalia (Schmid, 1980);  
 forewing, male genitalia (Marshall & Larson, 1982);  
 photo male, female habitus, male & female genitalia, larva & case, pupa (Wiggins, 1998);  
 foreleg, male genitalia, & photo of adult (Houghton, 2012);  
 photo of larva (Ruiter, Boyle, & Zhou, 2013);  
 transcontinental except AK (Wiggins, 1960);  
 AB (Wiggins, 1956; Wiggins, 1998);  
 AK (Wiggins, 1998; Kendrick & Huryn, 2014);  
 BC (Banks, 1943; Ross & Spencer, 1952; Wiggins, 1956; Winterbourn, 1971;  
     Nimmo & Scudder, 1978; Flannagan & MacDonald, 1987; Wiggins, 1998);  
 CA (Denning, 1956; Wiggins, 1956; Resh & Mendez, 2022);  
 CT (Nelson, 1987; Downs & Godwin, 1987; Nelson & Downs, 1995; Wiggins, 1998);  
 IL (Betten, 1944; Ross, 1944; Ross, 1959; Wiggins, 1956; Wiggins, 1998;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Wiggins, 1956; Waltz & McCafferty, 1983;  
     DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LB (Wiggins, 1956; Wiggins, 1961; Flannagan & MacDonald, 1987);  
 MA (Betten, 1944; Wiggins, 1956; Neves, 1979; Wiggins, 1998);  
 MB (Wiggins, 1956; Flannagan & Flannagan, 1982; Flannagan & MacDonald, 1987;  
     Wiggins, 1998;  
     Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruiter, Boyle, & Zhou, 2013;  
     Chatila-Amos, 2021);  
 ME (Procter, 1946; Ross, 1947; Wiggins, 1956;  
     Blickle & Morse, 1966; Wiggins, 1998; Huryn & Harris, 2000);  
 MI (Betten, 1944; Leonard & Leonard, 1949; Wiggins, 1956; Ellis, 1962;  
     Davis, Hudson, & Armitage, 1991; Wiggins, 1998; Houghton, Brandin, & Brakel, 2011;  
     Wright, Pytel, & Houghton, 2013; Brakel, Wassink, & Houghton, 2015; Houghton, 2015;  
     Houghton, 2016);

- Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
Houghton & Lardner, 2020; Houghton, 2022;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MN (Betten, 1944; Wiggins, 1956; Etnier, 1965;  
Lager, Johnson, Williams, & McCullough, 1979; MacLean, 1995; Ruiter, 1996;  
Monson, 1997; Wiggins, 1998;  
Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2004a;  
Houghton & Holzenthal, 2010; Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MT (Roemhild, 1982; Jones & Resh, 1988);
- NB (Wiggins, 1998);
- ND (Harris, Lago, & Carslon, 1980;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- NF (Wiggins, 1956; Wiggins, 1961; Marshall & Larson, 1982; Flannagan & MacDonald, 1987;  
Wiggins, 1998; Cordero, Sánchez-Ramírez, & Currie, 2017);
- NH (Morse & Blickle, 1953; Wiggins, 1956; Wiggins, 1998);
- NJ (Wiggins, 1998);
- NM (Wiggins, 1998);
- NS (Wiggins, 1956; Flannagan & MacDonald, 1987; Wiggins, 1998);
- NT (Wiggins, 1998);
- NY (Betten, 1944; Wiggins, 1956; McCabe, 1986; Wiggins, 1998;  
Myers, Kondratieff, Mihuc, & Ruiter, 2011);
- OH (McElravy, Arsuffi, & Foote, 1977; Hurn & Foote, 1983; MacLean & MacLean, 1984;  
Usis & MacLean, 1986; Garono & MacLean, 1988; Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- ON (Betten, 1944; Wiggins, 1956; Flannagan & MacDonald, 1987; Blades & Marshall, 1994;  
Wiggins, 1998);
- OR (Wiggins, 1956; Anderson, 1976; Wiggins, 1998);
- PA (Wiggins, 1956; Masteller & Flint, 1992; Wiggins, 1998);
- PE (Flannagan & MacDonald, 1987);
- QC (Wiggins, 1956; Robert, 1958; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1975;  
Roy & Harper, 1979; Flannagan & MacDonald, 1987; Harper, 1989; Wiggins, 1998);
- SK (Wiggins, 1956; Wiggins, 1998);
- UT (Baumann & Unzicker, 1981);
- VT (Wimmer, 1979; Bilger, 1986);
- WA (Wiggins, 1998; Blinn & Ruiter, 2013; Claeson, Crisafulli, & Gerth, 2018);
- WI (Wiggins, 1956; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
Steven & Hilsenhoff, 1984; Hilsenhoff, 1995; Wiggins, 1998;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- WV (Tarter, 1990; Tarter & Floyd, 2016);
- YT (Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997; Wiggins, 1998).
- Banksiola dossuaria* (Say, 1828), Phryganea, MA;  
male genitalia (Marshall & Larson, 1982; Houghton, 2012);  
photo female, male & female genitalia, larva (Wiggins, 1998);
- NC/SC (Unzicker, Resh, & Morse, 1982);  
southeastern Canada and eastern U.S. (Wiggins, 1960);
- CT (Wiggins, 1956; Nelson, 1987; Nelson & Downs, 1995; Wiggins, 1998);
- KY (Resh, 1975; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MA (Say, 1828; Hagen, 1861; Banks, 1951; Neves, 1979; Wiggins, 1998);
- ME (Johnson, 1927; Procter, 1946; Banks, 1951; Blickle & Morse, 1966; Wiggins, 1998);
- MI (Houghton, Brandin, & Brakel, 2011; Houghton, 2015; Houghton, 2016;  
Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
Houghton, 2022;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

- MN (Etnier, 1968; Wiggins, 1998; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- NB (Wiggins, 1998);
- NC (Wiggins, 1998; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);
- NF (Marshall & Larson, 1982; Larson & House, 1990; Wiggins, 1998);
- NH (Hagen, 1873; Morse & Blickle, 1953; Wiggins, 1998);
- NC (Wiggins, 1998);
- NJ (Smith, 1900; Smith, 1910; Wiggins, 1998);
- NS (Wiggins, 1956; Schmid, 1980; Wiggins, 1998);
- NY (Betten, 1901; Betten, 1926; Betten, 1934; McCabe, 1986; Wiggins, 1998; Myers, Kondratieff, Mihuc, & Ruiter, 2011);
- OH (McElravy, Arsuffi, & Foote, 1977; Masteller & Flint, 1979; Huryn & Foote, 1983; Usis & MacLean, 1986; Garono & MacLean, 1988; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- ON (Wiggins, 1956; Schmid, 1980; Harper, 1989; Wiggins, 1998);
- PA (Hyland, 1948; Swegman, Walker, & Sykora, 1981; Masteller & Flint, 1992; Wiggins, 1998);
- QC (Wiggins, 1956; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1975; Roy & Harper, 1979; Harper, 1989; Wiggins, 1998);
- SC (Morse et al, 1979; Floyd, Morse, & Harris, 1997);
- VA (Parker & Voshell, 1981; Wiggins, 1998; Flint, Hoffman, & Parker, 2008);
- VT (Wimmer, 1979; Wiggins, 1998);
- WI (Hilsenhoff, 1995; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- WV (Hill, Cremeans, Rousch, & Tarter, 1978; Stout & Stout, 1989; Tarter, 1990; Wiggins, 1998; Tarter & Floyd, 2016).
- Banksiola smithi* Banks, 1914, NJ;
- male genitalia (Marshall & Larson, 1982; Houghton, 2012);
- male & female genitalia, larva (Wiggins, 1998);
- northeastern U.S. (Wiggins, 1960);
- MA (Banks, 1951; Wiggins, 1998);
- ME (Procter, 1946; Wiggins, 1956; Blickle & Morse, 1966; Bilger, 1986; Wiggins, 1998);
- MI (Leonard & Leonard, 1949; Wiggins, 1998; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MN (Etnier, 1965; Wiggins, 1998; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- NB (Wiggins, 1998);
- NF (Marshall & Larson, 1982);
- NH (Morse & Blickle, 1953; Wiggins, 1998);
- NJ (Banks, 1914; Wiggins, 1998);
- NY (Wiggins, 1956; Wiggins, 1998; Myers, Kondratieff, Mihuc, & Ruiter, 2011);
- ON (Wiggins, 1960; Wiggins, 1998);
- QC (Wiggins, 1960; Roy & Harper, 1975; Roy & Harper, 1979; Schmid, 1980; Wiggins, 1998);
- VT (Bilger, 1986);
- WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hilsenhoff, 1995; Wiggins, 1998; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Beothukus complicatus* (Banks, 1924), *Ecclisomyia*, ON;
- wings, male & female genitalia (Wiggins, 1961);
- male genitalia (Marshall & Larson, 1982; Houghton, 2012);
- larva, pupa, wings, male and female genitalia (Wiggins & Larson, 1989);
- male & female genitalia, larva & case, pupa (Wiggins, 1998);

AB (Wiggins, 1977; Wiggins, 1998);  
MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MN (Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NF (Wiggins, 1961; Wiggins, 1977; Schmid, 1980; Marshall & Larson, 1982;  
Wiggins & Larson, 1989; Larson & House, 1990; Wiggins, 1998);  
ON (Banks, 1924; Wiggins, 1977; Schmid, 1980; Wiggins, 1998);  
QC (Roy & Harper, 1979; Harper, 1989);  
WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Wiggins, 1977;  
Hilsenhoff, 1995;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).

*Fabria inornata* (Banks, 1907), Neuronina, MN;  
larva, case (Wiggins, 1977);  
male & female genitalia (Schmid, 1980);  
photo male, wings, male & female genitalia, larva, case (Wiggins, 1998);  
male genitalia (Houghton, 2012);  
AB (Schmid, 1980);  
IA (Wiggins, 1998; Blinn, Ruitter, & Flint, 2009;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
IL (Ross, 1944; Wiggins, 1977; Wiggins, 1998;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
IN (Waltz & McCafferty, 1983;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MB (Neave, 1934; Wiggins, 1977; Schmid, 1980; Flannagan & Flannagan, 1982; Wiggins, 1998);  
MI (Leonard & Leonard, 1949;  
Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MN (Etnier, 1965; Wiggins, 1977; Monson, 1997; Wiggins, 1998;  
Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NE (Wiggins, 1998;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NT (Wiggins, 1998);  
OH (Bolton, Macy, DeWalt, & Jacobus, 2019;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
ON (Banks, 1907; Wiggins, 1977; Schmid, 1980; Wiggins, 1998);  
QC (Roy & Harper, 1975; Roy & Harper, 1979; Wiggins, 1977; Schmid, 1980);  
WI (Hilsenhoff, 1981;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
WV (Tarter, Wykle, & Morgan, 1999; Tarter & Floyd, 2016).

*Hagenella canadensis* (Banks, 1907), Neuronina, ON;  
larva, case (Wiggins, 1977, probably this species);  
wings, male & female genitalia (Schmid, 1980);  
photo male, wings, male & female genitalia, larva & case (Wiggins, 1998);  
male genitalia (Houghton, 2012);  
eastern Canada and northeastern U.S. (Wiggins, 1960);  
NB to NH to QC to ON to MI to WI to MN (Wiggins, 1977);  
IL (Banks, 1951);  
ME (Procter, 1946; Blickle & Morse, 1966; Bilger, 1986; Wiggins, 1998; Huryn & Harris, 2000);  
MI (Leonard & Leonard, 1949; Wiggins, 1977; Wiggins, 1998;  
Houghton, Brandin, & Brakel, 2011; Houghton, 2016);

Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
Houghton, 2022;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MN (Etnier, 1965; Wiggins, 1977; MacLean, 1995; Monson, 1997; Wiggins, 1998;  
Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NB (Wiggins, 1977; Wiggins, 1998);  
NH (Blickle & Morse, 1953; Wiggins, 1977; Wiggins, 1998);  
NS (Wiggins, 1998);  
NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
ON (Banks, 1907; Wiggins, 1977; Wallace & Wiggins, 1978; Schmid, 1980; Wiggins, 1998);  
QC (Roy & Harper, 1975; Roy & Harper, 1979; Wiggins, 1977; Schmid, 1980; Wiggins, 1998);  
VT (Bilger, 1986);  
WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Wiggins, 1977;  
Hilsenhoff, 1995; Wiggins, 1998;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).

*Oligostomis ocelligera* (Walker, 1852), Neuronina, NS;  
Neuronina stygipes Hagen, 1873, MA (Milne, 1934);  
male & female genitalia (Schmid, 1980);  
male genitalia (Marshall & Larson, 1982; Houghton, 2012);  
photo female, male & female genitalia (Wiggins, 1998);  
eastern Canada and northeastern U.S. (Wiggins, 1960);  
WI to NF to NJ (Wiggins, 1977);  
QC to NF to NJ to MI (Wiggins, 1961);  
CT (Britton, 1920; Nelson & Downs, 1995; Wiggins, 1998);  
DE (Lake, 1984);  
IN (Waltz & McCafferty, 1983;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MA (Hagen, 1873; Betten, 1934; Wiggins, 1998; Whitmore 2008);  
ME (Hagen, 1873; Wiggins, 1998);  
MI (Leonard & Leonard, 1949; Wiggins, 1961; Wiggins, 1998;  
Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MN (Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NF (Wiggins, 1961; Wiggins, 1977; Schmid, 1980; Marshall & Larson, 1982; Wiggins, 1998);  
NH (Hagen, 1873; Morse & Blickle, 1953; Wiggins, 1998);  
NJ (Smith, 1900; Smith, 1910; Wiggins, 1961; Wiggins, 1977; Wiggins, 1998);  
NS (Walker, 1852; Schmid, 1980; Wiggins, 1998);  
NY (Lloyd, 1921; Bilger, 1986; Wiggins, 1998; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
ON (Schmid, 1980; Williams & Williams, 1987; Wiggins, 1998);  
PA (Masteller & Flint, 1992);  
QC (Robert, 1958; Wiggins, 1961; Roy & Harper, 1975; Roy & Harper, 1979; Schmid, 1980;  
Harper, 1989; Wiggins, 1998);  
TN (Etnier, 1973; Etnier, Baxter, Fraley, & Parker, 1998;  
Wiggins, Etnier, Grant, Lambdin, & Mayor, 2001);  
VA (Flint, 2014; Flint, 2017);  
WI (Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Wiggins, 1977; Karl & Hilsenhoff, 1979;  
Steven & Hilsenhoff, 1984; Hilsenhoff, 1995;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
WV (Tarter & Floyd, 2016).  
*Oligostomis pardalis* (Walker, 1852), Neuronina, NS;

*Neuronia pardalis redmani* Betten & Mosely, 1940, NS (Ross, 1944);  
habitus, male & female genitalia (Ross, 1944);  
larva, case (Wiggins, 1977);  
male genitalia (Marshall & Larson, 1982);  
photo female, male & female genitalia, larva & case, pupal anal processes (Wiggins, 1998);  
eastern Canada and northeastern U.S. (Wiggins, 1960);  
ON to NS to MA (Wiggins, 1977);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
CT (Nelson & Downs, 1995);  
LB (Banks, 1892);  
MA (Wiggins, 1977; Wiggins, 1998; Whitmore 2008; Whitmore, 2021);  
ME (Bilger, 1986; Wiggins, 1998);  
NC (Wiggins, 1998; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
NH (Harris, 1869; Morse & Blickle, 1953; Wiggins, 1998);  
NS (Walker, 1852; Betten & Mosely, 1940; Wiggins, 1977; Wiggins, 1998);  
NY (Lintner, 1898; Betten, 1934; McCabe, 1986; Wiggins, 1998;  
Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
OH (Huryn & Foote, 1983; Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
ON (Wiggins, 1977; Wiggins, 1998);  
PA (Masteller & Flint, 1992);  
QC (Provancher, 1878; Robert, 1958; Roy & Harper, 1975; Roy & Harper, 1979; Harper, 1989;  
Wiggins, 1998);  
TN (Wiggins, Etnier, Grant, Lambdin, & Mayor, 2001);  
VA (Flint, Hoffman, & Parker, 2008);  
WI (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
WV (Stout & Stout, 1989; Tarter, 1990; Tarter & Floyd, 2016).

*Oligotricha lapponica* (Hagen, 1864), *Neuronia*, Lapland;  
*Neuronia childreni* Betten & Mosely, 1940  
(Wiggins & Kuwayama, 1957), locality possibly North America;  
larva (Lepneva, 1966/71);  
larva, case (Wiggins, 1977);  
male & female genitalia (Schmid, 1980);  
photo males, male & female genitalia, larva, case (Wiggins, 1998);  
AK (Banks, 1900; Betten, 1934; Ross, 1944; Wiggins, 1960;  
Wiggins, 1977; Schmid, 1980; Wiggins, 1998; Kendrick & Huryn, 2014);  
YT (Wiggins & Parker, 1997; Wiggins, 1998);  
Lapland (Hagen, 1864);  
Palearctic Region (Schmid, 1980);  
northern Palearctic Region, northern China (Lepneva, 1966/71).

*Phryganea* (*Neophryganea*) *cinerea* Walker, 1852, ON;  
male & female genitalia (Ross, 1944);  
pupal head, case (Wiggins, 1960; Wiggins & Larson, 1989);  
internal female genitalia (Unzicker, 1968);  
larva, case (Wiggins, 1977; Williams, Tavares, & Bryant, 1987);  
larval gills; male head, antenna, male & female maxillary palps,  
male & female wings, sternum V, male & female genitalia (Schmid, 1980);  
male maxillary palp, protibia, mesotibia, male genitalia (Marshall & Larson, 1982);  
larva in case (Williams, Tavares, & Bryant, 1987);  
photo female, head & thorax, male & female genitalia, larva & case, pupa & case (Wiggins, 1998);  
male genitalia (Houghton, 2012);  
NF to MA to AK to CA (Wiggins, 1977);  
AB (Ross, 1944; Flannagan & MacDonald, 1987; Wiggins, 1998);

AK (Wiggins, 1977; Schmid, 1980; Flannagan & MacDonald, 1987; Wiggins, 1998);  
 BC (Clemens et al, 1939; Ross & Spencer, 1952; Nimmo & Scudder, 1978;  
 Flannagan & MacDonald, 1987; Wiggins, 1998);  
 CA (Wiggins, 1977; Wiggins, 1998; Givens, 2014; Resh & Mendez, 2022);  
 CO (Betten, 1934; Canton, 1982; Canton & Ward, 1979; Canton & Ward, 1981;  
 Herrmann, Ruiter, & Unzicker, 1986; Ruiter, 1996; Wiggins, 1998;  
 Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
 Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);  
 CT (Britton, 1920; Britton, 1938; Nelson & Downs, 1995);  
 IA (Wiggins, 1998; Blinn, Ruiter, & Flint, 2009;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ID (Wiggins, 1998);  
 IL (Betten, 1934; Harris, 1971; Wiggins, 1998;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Hagen, 1873; Ulmer, 1907; Johnson, 1927; Betten, 1934; Wiggins, 1977; Wiggins, 1998);  
 MB (Neave, 1934; Ross, 1944; Flannagan & Lawler, 1972; Flannagan & Cobb, 1981;  
 Resh, Rosenberg, & Wiens, 1983; Flannagan & MacDonald, 1987; Wiggins, 1998;  
 Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruiter, Boyle, & Zhou, 2013);  
 ME (Hagen, 1873; Johnson, 1927; Procter, 1946; Blickle & Morse, 1966; Mingo & Gibbs, 1980;  
 Bilger, 1986; Wiggins, 1998; Huryn & Harris, 2000);  
 MI (Betten, 1934; Leonard & Leonard, 1949; Ellis, 1962; Davis, Hudson, & Armitage, 1991;  
 Wiggins, 1998; Houghton, Brandin, & Brakel, 2011; Wright, Pytel, & Houghton, 2013;  
 Houghton, 2016;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton & Lardner, 2020; Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Lager, Johnson, Williams, & McCullough, 1979; MacLean, 1995;  
 Ruiter, 1996; Monson, 1997; Wiggins, 1998;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton & Holzenthal, 2010;  
 Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Ross, 1944; Newell, 1970; Newell & Potter, 1973; Roemhild, 1982; Wiggins, 1998);  
 NB (Flannagan & MacDonald, 1987);  
 ND (Harris, Lago, & Carlson, 1980; Wiggins, 1998;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NE (Wiggins, 1998;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Wiggins, 1961; Wiggins, 1977; Schmid, 1980; Marshall & Larson, 1982;  
 Flannagan & MacDonald, 1987; Wiggins, 1998);  
 NH (Morse & Blickle, 1953; Wiggins, 1998);  
 NS (Banks, 1930; Wiggins, 1998);  
 NT (Nimmo, 1986, as "P. straminea"; Wiggins, 1998);  
 NY (Betten, 1901; Lloyd, 1921; Wiggins, 1998; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Huryn & Foote, 1983; MacLean & MacLean, 1984; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Walker, 1852; Ross, 1944; Wiggins, 1977; Williams & Penak, 1980;  
 Flannagan & MacDonald, 1987; Williams, Tavares, & Bryant, 1987; Harper, 1989;  
 Wiggins, 1998);  
 OR (Anderson, 1976; Wiggins, 1998);  
 PA (Masteller & Flint, 1979; Masteller & Flint, 1992; Wiggins, 1998);  
 PE (Wiggins, 1998);

QC (Provancher, 1877; Roy & Harper, 1975; Roy & Harper, 1979;  
     Flannagan & MacDonald, 1987; Harper, 1989; Wiggins, 1998);  
 SD (Ross, 1944; Wiggins, 1998;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 SK (Ulmer, 1907; Milne, 1943; Rawson & Moore, 1944; Flannagan & MacDonald, 1987;  
     Wiggins, 1998);  
 UT (Baumann & Unzicker, 1981);  
 WA (Wiggins, 1998; Zack, Ruiter, Strenge, & Landolt, 2006; Blinn & Ruiter, 2013);  
 WI (Ross, 1944; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1995;  
     Wiggins, 1998;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WY (Ross, 1944; Hilsenhoff, 1975; Ruiter & Lavigne, 1985; Ruiter, 1996; Wiggins, 1998);  
 YT (Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997; Wiggins, 1998).  
*Phryganea* (*Neophryganea*) *sayi* Milne, 1931, NJ;  
*Phryganea interrupta* Say, 1828, preoccupied by Fabricius (Milne, 1931);  
 photo male, male & female genitalia (Wiggins, 1998);  
 male genitalia (Houghton, 2012);  
 ME to NC to MO to WI (Wiggins, 1960);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 AR (Board, 1987; Moulton & Stewart, 1996; Bowles, Cheri, Usrey, & Williams, 2020);  
 CT (Britton, 1920; Nelson, 1987; Nelson & Downs, 1995; Moulton & Stewart, 1996;  
     Wiggins, 1998);  
 DC (Banks, 1904; Betten, 1934; Hamilton & Schuster, 1980; Moulton & Stewart, 1996);  
 DE (Lake, 1984; Moulton & Stewart, 1996);  
 IA (Blinn, Ruiter, & Flint, 2009;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1944; Hamilton & Schuster, 1980; Moulton & Stewart, 1996; Wiggins, 1998;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton & Schuster, 1980; Moulton & Stewart, 1996; Wiggins, 1998;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Hamilton & Schuster, 1980; Floyd & Schuster, 1990; Moulton & Stewart, 1996;  
     Etnier, Bauer, & Zirkle, 2006; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Hagen, 1873; Betten, 1934; Neves, 1979; Hamilton & Schuster, 1980;  
     Moulton & Stewart, 1996; Wiggins, 1998);  
 MD (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Wiggins, 1998);  
 ME (Procter, 1946; Wiggins, 1960; Wiggins, 1961; Blickle & Morse, 1966;  
     Hamilton & Schuster, 1980; Moulton & Stewart, 1996; Wiggins, 1998);  
 MI (Betten, 1934; Leonard & Leonard, 1949; Hamilton & Schuster, 1980;  
     Moulton & Stewart, 1996; Houghton, Brandin, & Brakel, 2011;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Hagen, 1873; Ulmer, 1907; Betten, 1934; Wiggins, 1960; Wiggins, 1961;  
     Hamilton & Schuster, 1980; Mathis & Bowles, 1992; Moulton & Stewart, 1996;  
     Wiggins, 1998; Ferro & Sites, 2007; Etnier, 2010;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Wiggins, 1960; Wiggins, 1961; Hamilton & Schuster, 1980; Moulton & Stewart, 1996;  
     Wiggins, 1998; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 ND (Harris, Lago, & Carlson, 1980; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);



NJ (Smith, 1890; Smith, 1910; Milne, 1931; Betten, 1934; Hamilton & Schuster, 1980; Moulton & Stewart, 1996; Wiggins, 1998);  
 NY (Hagen, 1873; Betten, 1934; Hamilton & Schuster, 1980; McCabe, 1986; Moulton & Stewart, 1996; Wiggins, 1998; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Ulmer, 1907; Betten, 1934; Hamilton & Schuster, 1980; Petersen & Foote, 1980; Huryn & Foote, 1983; MacLean & MacLean, 1984; Usis & MacLean, 1986; Garono & MacLean, 1988; Ingold, Weigt, & Guttman, 1988; Moulton & Stewart, 1996; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Adamstone, 1924; Rawson, 1930; Ricker, 1932; Hamilton & Schuster, 1980; Schmid, 1980; Moulton & Stewart, 1996; Wiggins, 1998);  
 PA (Ross, 1944; Hamilton & Schuster, 1980; Swegman, Walker, & Sykora, 1981; Masteller & Flint, 1992; Moulton & Stewart, 1996; Wiggins, 1998);  
 QC (Robert, 1958; Roy & Harper, 1979; Hamilton & Schuster, 1980; Moulton & Stewart, 1996);  
 RI (Wiggins, 1998; Hunt, 2017);  
 SC (Morse, Hamilton, & Hoffman, 1989; Moulton & Stewart, 1996);  
 SK (Hamilton & Schuster, 1980; Moulton & Stewart, 1996);  
 TN (Etnier, 1973; Hamilton & Schuster, 1980; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998; Etnier, Bauer, & Zirkle, 2006);  
 TX (Wiggins, 1998);  
 VA (Parker & Voshell, 1981; Hoffman & Parker, 1997; Moulton & Stewart, 1996; Wiggins, 1998; Flint, Hoffman, & Parker, 2008; Flint, 2011);  
 WI (Vorhies, 1909; Betten, 1934; Wiggins, 1960; Wiggins, 1961; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hamilton & Schuster, 1980; Hilsenhoff, 1995; Moulton & Stewart, 1996; Wiggins, 1998; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Hill, Cremeans, Rousch, & Tarter, 1978; Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016).

*Ptilostomis angustipennis* (Hagen, 1873), Neuronina, IL, MA, MI, New England;  
 New England (Hagen, 1873);  
 male genitalia (Houghton, 2012);  
 photo female, male & female genitalia (Wiggins, 1998);  
 CT (Britton, 1920);  
 DE (Lake, 1984);  
 IL (Hagen, 1873; (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Hagen, 1873; Betten, 1934);  
 MB (Wiggins, 1998);  
 ME (Wiggins, 1998; Huryn & Harris, 2000);  
 MI (Hagen, 1873; Leonard & Leonard, 1949; Wiggins, 1998; Houghton, Brandin, & Brakel, 2011; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Wiggins, 1998; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NB (Wiggins, 1998);  
 ND (Harris, 1978; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NH (Morse & Blickle, 1953; Wiggins, 1998);  
 NJ (Smith, 1910; Ross, 1944);  
 NS (Wiggins, 1998);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 ON (Wiggins, 1998);

QC (Wiggins, 1998);  
 WI (Wiggins, 1998;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).  
 Ptilostomis ocellifera (Walker, 1852), Neuronina, NS;  
 Ptilostomis kovalevskii variety b F Kolenati, 1859 (GB Wiggins, 1998);  
 Neuronina simulans Betten & Mosely, 1940, NF (Ross, 1944);  
 male & female genitalia (Ross, 1944);  
 pupal head, case (Wiggins, 1966);  
 larva, case (Wiggins, 1977);  
 forewing, male genitalia (Marshall & Larson, 1982);  
 photo male, wings, male & female genitalia, larva & case, pupa & case (Wiggins, 1998);  
 male genitalia & photo of adult (Houghton, 2012);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 transcontinental (Wiggins, 1960);  
 AK (Ellis, 1978; Vineyard, 1982; Moulton & Stewart, 1996);  
 AL (Harris et al, 1983; Harris, 1987; Harris & Lago, 1990; Frazer, Harris, & Ward, 1991;  
     Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Wiggins, 1998;  
     Hicks & Haynes, 2000a; Harris & O'Neil, 2015);  
 AR (Unzicker, Aggus & Warren, 1970; Board, 1987; Bowles & Mathis, 1989;  
     Moulton & Stewart, 1996; Wiggins, 1998; Bowles, 2020;  
     Bowles, Cheri, Usrey, & Williams, 2020);  
 BC (Winterbourn, 1971; Nimmo & Scudder, 1978; Nimmo & Scudder, 1983;  
     Flannagan & MacDonald, 1987; Moulton & Stewart, 1996; Wiggins, 1998);  
 CA (Wiggins, 1998; Resh & Mendez, 2022);  
 CT (Britton, 1938; Nelson, 1987; Nelson & Downs, 1995; Moulton & Stewart, 1996;  
     Wiggins, 1998);  
 DC (Betten, 1934; Moulton & Stewart, 1996);  
 DE (Lake, 1984; Moulton & Stewart, 1996);  
 FL (Pescador, Rasmussen, & Harris, 2004; Rasmussen, 2004;  
     Denson, Rasmussen, & Harris, 2016);  
 GA (Betten, 1934; Moulton & Stewart, 1996; Wiggins, 1998);  
 IA (Blinn, Ruiter, & Flint, 2009;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ID (Wiggins, 1998);  
 IL Hagen, 1861; Betten, 1934; Moulton & Stewart, 1996; Wiggins, 1998; Zhou et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1944; Waltz & McCafferty, 1983; Moulton & Stewart, 1996; Wiggins, 1998;  
     DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006;  
     Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Hagen, 1873; Betten, 1934; Moulton & Stewart, 1996);  
 MA (Hagen, 1873; Betten, 1934; Neves, 1979; Moulton & Stewart, 1996; Wiggins, 1998);  
 MB (Hagen, 1861; Neave, 1934; Flannagan & Flannagan, 1982;  
     Cobb, Flannagan, & Friesen, 1984; Flannagan & MacDonald, 1987;  
     Moulton & Stewart, 1996; Wiggins, 1998; Zhou et al., 2011);  
 MD (Wiggins, 1998);  
 ME (Ross, 1947; Blicke & Morse, 1966; Moulton & Stewart, 1996; Wiggins, 1998;  
     Hury & Harris, 2000);  
 MI (Ross, 1944; Leonard & Leonard, 1949; Petersen & Cummins, 1974;  
     Moulton & Stewart, 1996; Wiggins, 1998; Houghton, Brandin, & Brakel, 2011;  
     Wright, Pytel, & Houghton, 2013; Houghton, 2016;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton & Lardner, 2020; Houghton, 2022);

Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; MacLean, 1995; Moulton & Stewart, 1996; Ruiter, 1996; Monson, 1997;  
 Wiggins, 1998; Houghton, Holzenthal, Monson, & MacLean, 2001; Zhou et al., 2011;  
 Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007; Etnier, 2010;  
 Bowles, 2020;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996);  
 NB (Wiggins, 1998);  
 NC (Wray, 1950; Morse, Hamilton, & Hoffman, 1989; Moulton & Stewart, 1996; Wiggins, 1998;  
 DeWalt, Jacobus, & McCafferty, 2007;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);  
 ND (Harris, Lago, & Carlson, 1980; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Betten, 1934; Betten & Mosely, 1940; Wiggins, 1961; Marshall & Larson, 1982;  
 Flannagan & MacDonald, 1987; Moulton & Stewart, 1996; Wiggins, 1998);  
 NH (Morse & Blickle, 1953; Moulton & Stewart, 1996; Wiggins, 1998);  
 NJ (Smith, 1900; Smith, 1910; Moulton & Stewart, 1996; Wiggins, 1998);  
 NS (Walker, 1852; Betten & Mosely, 1940; Flannagan & MacDonald, 1987;  
 Moulton & Stewart, 1996; Wiggins, 1998);  
 NT (Wiggins, 1998);  
 NY (Betten, 1926; Betten, 1934; McCabe, 1986; Moulton & Stewart, 1996; Wiggins, 1998;  
 Zhou et al., 2011; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Hagen, 1861; Huryn & Foote, 1983; MacLean & MacLean, 1984; Usis & MacLean, 1986;  
 Garono & MacLean, 1988; Moulton & Stewart, 1996; Wiggins, 1998;  
 Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Bowles, Stephan, & Mathis, 1990; Bowles & Mathis, 1992; Moulton & Stewart, 1996);  
 ON (Ross, 1944; Wiggins, 1977; Wiggins, Mackay & Smith, 1980;  
 Flannagan & MacDonald, 1987; Williams & Williams, 1987;  
 Williams, Tavares, & Bryant, 1987; Moulton & Stewart, 1996; Wiggins, 1998;  
 Zhou et al., 2011);  
 OR (Anderson, 1976; Anderson & Hansen, 1987; Moulton & Stewart, 1996; Wiggins, 1998);  
 PA (Betten, 1934; Ross, 1944; Swegman, Walker, & Sykora, 1981; Masteller & Flint, 1984;  
 Masteller & Flint, 1992; Moulton & Stewart, 1996; Wiggins, 1998);  
 QC (Ross, 1944; Robert, 1958; Roy & Harper, 1975; Roy & Harper, 1979;  
 Williams & Williams, 1979; Flannagan & MacDonald, 1987; Moulton & Stewart, 1996;  
 Wiggins, 1998);  
 SC (Morse, Chapin, Herlong, & Harvey, 1980; Morse, Hamilton, & Hoffman, 1989;  
 Moulton & Stewart, 1996; Floyd, Morse, & Harris, 1997; Wiggins, 1998;  
 Zhou et al., 2011);  
 SD (Ruiter, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 TN (Edwards, 1956; Edwards, 1966; Etnier & Schuster, 1979; Moulton & Stewart, 1996;  
 Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005;  
 Etnier, Bauer, & Zirkle, 2006);  
 TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);  
 VA (Ross, 1947; Parker & Voshell, 1981; Roeding & Smock, 1989; Moulton & Stewart, 1996;  
 Wiggins, 1998; Flint, Hoffman, & Parker, 2008; Zhou et al., 2011; Flint, 2011);  
 VT (Wimmer, 1979; Moulton & Stewart, 1996);  
 WA (Wiggins, 1998; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013);  
 WI (Vorhies, 1909; Ross, 1944; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973;  
 Hilsenhoff, 1975; Steven & Hilsenhoff, 1984; Hilsenhoff, 1995;  
 Moulton & Stewart, 1996; Wiggins, 1998);

Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Hill, Cremeans, Rousch, & Tarter, 1978; Tarter & Hill, 1979; Stout & Stout, 1989;  
 Tarter, 1990; Griffith & Perry, 1992; Moulton & Stewart, 1996; Wiggins, 1998;  
 Zhou et al., 2011; Tarter & Floyd, 2016).

*Ptilostomis postica* (Walker, 1852), Neuronina, GA;  
 male & female genitalia (Wiggins, 1998);  
 eastern U.S. (Wiggins, 1960);  
 Hudson Bay (Ulmer, 1907);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris, Lago, & O'Neil, 1984; Harris & Lago, 1990; Harris, O'Neil, & Lago, 1991;  
 Moulton & Stewart, 1996; Hicks & Haynes, 2000a; Hicks & Haynes, 2000b;  
 Zhou et al., 2011; Harris & O'Neil, 2015);  
 AR (Bowles & Mathis, 1989; Moulton & Stewart, 1996; Wiggins, 1998; Bowles, 2020);  
 CT (Britton, 1920; Nelson, 1987; Nelson & Downs, 1995; Moulton & Stewart, 1996;  
 Wiggins, 1998);  
 DC (Hagen, 1861; Moulton & Stewart, 1996);  
 DE (Lake, 1984; Moulton & Stewart, 1996);  
 FL (Harris, O'Neil, & Lago, 1991; Pescador, Rasmussen, & Harris, 1995, 2004;  
 Moulton & Stewart, 1996; Wiggins, 1998; Rasmussen, 2004;  
 Denson, Rasmussen, & Harris, 2016);  
 GA (Walker, 1852; Moulton & Stewart, 1996; Wiggins, 1998);  
 IL (Ross, 1944; Moulton & Stewart, 1996; Wiggins, 1998;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ulmer, 1907; Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
 DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Floyd & Schuster, 1990; Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 MA (Hagen, 1861; Neves, 1979; Moulton & Stewart, 1996; Wiggins, 1998);  
 MB (Hagen, 1861; Neave, 1934; Flannagan & Flannagan, 1982; Moulton & Stewart, 1996);  
 MD (Banks, 1904; Moulton & Stewart, 1996; Wiggins, 1998; Zhou et al., 2011);  
 ME (Procter, 1946; Blickle & Morse, 1966; Moulton & Stewart, 1996);  
 MI (Ross, 1944; Leonard & Leonard, 1949; Moulton & Stewart, 1996; Wiggins, 1998;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Holzenthal, Harris, & Lago, 1982; Moulton & Stewart, 1996; Wiggins, 1998);  
 NC (Banks, 1908; Brimley, 1938; Moulton & Stewart, 1996; Wiggins, 1998;  
 Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Ulmer, 1907; Morse & Blickle, 1953; Moulton & Stewart, 1996);  
 NJ (Smith, 1890; Smith, 1900; Smith, 1910; Moulton & Stewart, 1996; Wiggins, 1998);  
 NS (Banks, 1930; Moulton & Stewart, 1996);  
 NY (Betten, 1901; Lloyd, 1921; Sibley, 1926; Moulton & Stewart, 1996; Wiggins, 1998;  
 Myers, Kondratieff, Mihuc, & Ruitter, 2011);  
 OH (McElravy, Arsuffi, & Foote, 1977; Masteller & Flint, 1979; Huryn & Foote, 1983;  
 Usis & MacLean, 1986; Garono & MacLean, 1988; Moulton & Stewart, 1996;  
 Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Bowles, Stephan, & Mathis, 1990; Bowles & Mathis, 1992; Moulton & Stewart, 1996);  
 ON (Wiggins, 1998);  
 PA (Hagen, 1861; Swegman, Walker, & Sykora, 1981; McGonigle & Howard, 1987;  
 Masteller & Flint, 1992; Moulton & Stewart, 1996; Wiggins, 1998);

QC (Roy & Harper, 1979; Moulton & Stewart, 1996);  
 RI (Wiggins, 1998; Hunt, 2017);  
 SC (Wiggins, 1998);  
 TN (Edwards, 1955; Edwards, 1956; Edwards, 1966; Etnier & Schuster, 1979;  
     Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998; Wiggins, 1998;  
     Etnier, Bauer, & Zirkle, 2006);  
 TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);  
 VA (Parker & Voshell, 1981; Hoffman & Parker, 1997; Moulton & Stewart, 1996; Wiggins, 1998;  
     Flint, Hoffman, & Parker, 2008; Zhou et al., 2011; Flint, 2011);  
 WI (Hilsenhoff, 1995;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Hill, Cremeans, Rousch, & Tarter, 1978; Rousch & Tarter, 1981; Tarter, 1990;  
     Moulton & Stewart, 1996; Zhou et al., 2011; Tarter & Floyd, 2016).  
*Ptilostomis semifasciata* (Say, 1828), Phryganea, IL;  
*Neuronia dubitans* Betten & Mosely, 1940, Canada (Ross, 1944);  
*Neuronia fusca* Walker, 1852, Canada (Betten & Mosely, 1940);  
 male & female genitalia (Ross, 1944; Schmid, 1980; Wiggins, 1998);  
 larva (Wiggins, 1960);  
 male genitalia (Marshall & Larson, 1982; Houghton, 2012);  
 Hudson Bay (Ulmer, 1907);  
 transcontinental (Wiggins, 1960);  
 AB (Wiggins, 1998);  
 BC (Anonymous, 1906, according to Nimmo & Scudder, 1978; Wiggins, 1998);  
 CO (Herrmann, Ruiter, & Unzicker, 1986);  
 CT (Britton, 1938; Nelson, 1987; Nelson & Downs, 1995; Wiggins, 1998);  
 DC (Hagen, 1861);  
 GA (Ulmer, 1907);  
 IA (Blinn, Ruiter, & Flint, 2009;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Say, 1828; Betten, 1934; Wiggins, 1998;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Wiggins, 1998;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Ross, 1944; Resh, 1975; Wiggins, 1998;  
     Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Say, 1828; Neves, 1979; Wiggins, 1998);  
 MB (Flannagan & Flannagan, 1982; Resh, Rosenberg, & Wiens, 1983;  
     Wiggins, 1998; Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010;  
     Ruiter, Boyle, & Zhou, 2013);  
 MD (Ulmer, 1907; Wiggins, 1998);  
 ME (Ulmer, 1907; Johnson, 1927; Procter, 1946; Blickle & Morse, 1966; Wiggins, 1998;  
     Huryn & Harris, 2000);  
 MI (Needham, 1908; Betten, 1934; Leonard & Leonard, 1949;  
     Merrill, 1965; Wiggins, 1998; Houghton, Brandin, & Brakel, 2011; Houghton, 2016;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton & Lardner, 2020; Houghton, 2022;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; MacLean, 1995; Monson, 1997; Wiggins, 1998;  
     Harris, Kondratieff, & Boyle, 2000;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2004a;  
     Houghton & Holzenthal, 2010; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MT (Roemhild, 1982);  
 ND (Harris, Lago, & Carlson, 1980; Wiggins, 1998;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NE (Wiggins, 1998; Harris, Kondratieff, & Boyle, 2000;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Hagen, 1861; Banks, 1908; Wiggins, 1961; Marshall & Larson, 1982; Wiggins, 1998);  
 NH (Morse & Blickle, 1953; Wiggins, 1998);  
 NJ (Say, 1828; Smith, 1890; Smith, 1910);  
 NS (Hagen, 1861; Wiggins, 1998);  
 NT (Nimmo, 1986; Wiggins, 1998);  
 NY (Hagen, 1861; Betten, 1934; Wiggins, 1998; Myers, Kondratieff, Mihuc, & Ruitter, 2011);  
 OH (Huryn & Foote, 1983; Garono & MacLean, 1988; Wiggins, 1998; Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Ricker, 1934; Harper, 1989; Wiggins, 1998);  
 PA (Say, 1828; Masteller & Flint, 1992; Wiggins, 1998);  
 QC (Ross, 1944; Robert, 1958; Roy & Harper, 1975; Williams & Williams, 1979;  
     Roy & Harper, 1979; Harper, 1989; Wiggins, 1998);  
 SD (Ross, 1944;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 SK (Ulmer, 1907; Wiggins, 1998);  
 TX (Wiggins, 1998);  
 VA (Parker & Voshell, 1981; Flint, Hoffman, & Parker, 2008);  
 WI (Ross, 1944; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
     Hilsenhoff, 1995; Wiggins, 1998;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Hill, Cremeans, Rousch, & Tarter, 1978; Tarter & Hill, 1979; Tarter, 1990;  
     Tarter & Floyd, 2016);  
 WY (Ruitter & Lavigne, 1985);  
 YT (Wiggins & Parker, 1997; Wiggins, 1998).

*Yphria californica* (Banks, 1907), Phryganea, CA;  
     larva, pupa, case, male maxillary palp, mesonotum, wings, male &  
         female genitalia (Wiggins, 1962);  
     internal female genitalia (Unzicker, 1968);  
     photo of larva in case (Anderson, 1976);  
     larva, case (Wiggins, 1977);  
     wings, maxillary palp, mesonotum, male & female genitalia, larva & case, pupa (Wiggins, 1998);  
 CA (Banks, 1907; Wiggins, 1962; Wiggins, 1977; Erman, 1987; Erman & Erman, 1990;  
     Wiggins, 1998; Wiggins, 1998; Resh & Mendez, 2022);  
 OR (Wiggins, 1962; Wiggins, 1977; Denning, 1964; Denning, 1966;  
     Anderson, 1967; Anderson, 1976; Wiggins, 1998).

Polycentropodidae (8 genera, 78 species) —Trumpet-net Caddisflies

*Cernotina astera* Ross, 1941, TX;  
     male genitalia (Armitage & Hamilton, 1990; de Camargos, 2020);  
     TX (Ross, 1941; Armitage & Hamilton, 1990; Moulton & Stewart, 1997;  
         Bowles, Tiemann, & Easley, 2007; de Camargos, 2020);  
     Mexico (Bueno-Soria & Flint, 1978).  
*Cernotina calcea* Ross, 1938, IL;  
     maxillary palp, wings (Schmid, 1980);  
     male & female genitalia (Nimmo, 1986; Armitage & Hamilton, 1990);  
     fore-, hind wing (Chamorro & Holzenthal, 2011);  
     male genitalia, wings (de Camargos, 2020);  
     OK/TX (Resh, White, & White, 1978);  
     AL (Harris et al, 1983; Nimmo, 1986; Harris, 1987; Lago & Harris, 1987);

- Armitage & Hamilton, 1990; Frazer, Harris, & Ward, 1991;  
Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Hicks & Haynes, 2000a;  
Hicks & Haynes, 2000b; Harris & O'Neil, 2015; Denson, Rasmussen, & Harris, 2016);  
AR (Unzicker, Aggus, & Warren, 1970; Hamilton & Schuster, 1980; Nimmo, 1986;  
Bowles & Mathis, 1989; Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
Bowles, 2020; Bowles, Cheri, Usrey, & Williams, 2020);  
FL (Ross, 1944; Hamilton & Schuster, 1980; Gordon, 1984; Nimmo, 1986;  
Armitage & Hamilton, 1990; Pescador, Rasmussen, & Harris, 1995, 2004;  
Moulton & Stewart, 1996; Rasmussen, 2004; Denson, Rasmussen, & Harris, 2016);  
IL (Ross, 1938; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990;  
Moulton & Stewart, 1996; de Camargos, 2020);  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
IN (DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
KS (Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990;  
Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
KY (Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
LA (Lago, Holzenthal, & Harris, 1982; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
MO (Ross, 1944; Hamilton & Schuster, 1980; Armitage & Hamilton, 1990;  
Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MS (Lago, Holzenthal, & Harris, 1982; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
OK (Ross, 1938; Unzicker, Aggus, & Warren, 1970; Hamilton & Schuster, 1980; Nimmo, 1986;  
Armitage & Hamilton, 1990; Bowles & Mathis, 1992; Moulton & Stewart, 1996;  
Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006; de Camargos, 2020);  
TN (Etnier, Baxter, Fraley, & Parker, 1998);  
TX (Ross, 1944; Edwards & Arnold, 1961; Edwards, 1973; Hamilton & Schuster, 1980;  
Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997;  
Bowles, Tiemann, & Easley, 2007);  
VA (Flint, Hoffman, & Parker, 2008);  
Mexico (Bueno-Soria & Flint, 1978; Nimmo, 1986; Moulton & Stewart, 1996);  
Nicaragua (Bueno-Soria & Flint, 1978; Moulton & Stewart, 1996).
- Cernotina ohio* Ross, 1939, OH;  
male genitalia (Nimmo, 1986; Armitage & Hamilton, 1990; de Camargos, 2020);  
OH (Ross, 1939; Marshall, 1939; Ross, 1944; Huryñ & Foote, 1983; Nimmo, 1986;  
Garono & MacLean, 1988; Armitage & Hamilton, 1990; Armitage et al., 2011;  
de Camargos, 2020);  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Cernotina oklahoma* Ross, 1938, OK;  
male genitalia (Armitage & Hamilton, 1990; de Camargos, 2020);  
OH (Edwards, 1973, doubtful record according to Armitage et al., 2011;  
Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
OK (Ross, 1938; Ross, 1944; Armitage & Hamilton, 1990;  
Bowles & Mathis, 1992; Moulton & Stewart, 1996; de Camargos, 2020);  
TX (Edwards, 1973; Armitage & Hamilton, 1990;  
Moulton & Stewart, 1996; Moulton & Stewart, 1997; Bowles, Tiemann, & Easley, 2007).
- Cernotina pallida* (Banks, 1904), Cynrus, MD;  
male & female genitalia (Schmid, 1980);  
male genitalia (Nimmo, 1986; Armitage & Hamilton, 1990; de Camargos, 2020);  
DC (Banks, 1904; Armitage & Hamilton, 1990);  
MD (Banks, 1904; Nimmo, 1986; Armitage & Hamilton, 1990; de Camargos, 2020);

MI (Houghton, 2020; Houghton, 2022;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NH (Morse & Blickle, 1953; Nimmo, 1986; Armitage & Hamilton, 1990);  
OH (Marshall, 1939; Ross, 1944; Huryñ & Foote, 1983; Nimmo, 1986;  
Armitage & Hamilton, 1990; Armitage et al., 2011);  
ON (Schmid, 1980; Nimmo, 1986; Armitage & Hamilton, 1990);  
VA (Banks, 1907; Nimmo, 1986; Flint, Hoffman, & Parker, 2004).

*Cernotina spicata* Ross, 1938, OK;  
larva, pupa (Hudson, Morse, & Voshell, 1981);  
wings, male genitalia (Nimmo, 1986);  
male genitalia (Armitage & Hamilton, 1990; de Camargos, 2020);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
OK/TX (Resh, White, & White, 1978);  
AL (Harris, Lago, & O'Neil, 1984; Harris, 1987; Lago & Harris, 1987;  
Armitage & Hamilton, 1990; Frazer, Harris, & Ward, 1991;  
Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Harris & O'Neil, 2015);  
AR (Bowles & Mathis, 1989; Moulton & Stewart, 1996; Etnier, 2010);  
CT (Downs & Godwin, 1987; Nelson & Downs, 1995; Moulton & Stewart, 1996);  
DE (Lake, 1984; Moulton & Stewart, 1996);  
FL (Nimmo, 1986; Pescador, Rasmussen, & Harris, 1995, 2004; Moulton & Stewart, 1996;  
Rasmussen, 2004; Denson, Rasmussen, & Harris, 2016);  
GA (Hudson, Morse, & Voshell, 1981; Nimmo, 1986; Armitage & Hamilton, 1990;  
Frazer, Harris, & Ward, 1991; Moulton & Stewart, 1996);  
IL (Nimmo, 1986; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
IN (Waltz & McCafferty, 1983; Armitage & Hamilton, 1990;  
Simon, Morris, Robb, & McCoy, 2015;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
KS (Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990;  
Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
LA (Hudson, Morse, & Voshell, 1981; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
MA (Neves, 1979; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
Whitmore 2008);  
ME (Ross, 1944; Blickle & Morse, 1966; Hamilton & Schuster, 1980; Nimmo, 1986;  
Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Huryñ & Harris, 2000);  
MI (Ross, 1938; Leonard & Leonard, 1949; Hamilton & Schuster, 1980; Nimmo, 1986;  
Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
Houghton, Brandin, & Brakel, 2011; Wright, Pytel, & Houghton, 2013; Houghton, 2016;  
Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MN (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MO (Ferro & Sites, 2007;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MS (Hudson, Morse, & Voshell, 1981; Lago, Holzenthal, & Harris, 1982; Nimmo, 1986;  
Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
NC (Hudson, Morse, & Voshell, 1981; Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
NH (Morse & Blickle, 1953; Hamilton & Schuster, 1980; Nimmo, 1986;  
Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
OK (Ross, 1938; Ross, 1944; Hamilton & Schuster, 1980; Nimmo, 1986;  
Armitage & Hamilton, 1990; Bowles & Mathis, 1992; Moulton & Stewart, 1996;  
Zuellig, Kondratieff, Schmidt, Durfee, Ruitter, & Prather, 2006; de Camargos, 2020);



ON (Nimmo, 1986; Moulton & Stewart, 1996);  
 SC (Morse, Chapin, Herlong, & Harvey, 1980; Hudson, Morse, & Voshell, 1981; Nimmo, 1986;  
     Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
     Floyd, Morse, & Harris, 1997);  
 TN (Etnier, Baxter, Fraley, & Parker, 1998; Etnier, Bauer, & Zirkle, 2006);  
 TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);  
 VA (Parker & Voshell, 1981; Nimmo, 1986; Armitage & Hamilton, 1990;  
     Hoffman & Parker, 1997; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004);  
 WI (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).  
*Cernotina trunca* Ross, 1947, FL;  
     male genitalia (Armitage & Hamilton, 1990; de Camargos, 2020);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Lago & Harris, 1987; Harris, 1990; Harris, O'Neil, & Lago, 1991);  
 FL (Ross, 1947; Frost, 1966; Gordon, 1984; Armitage & Hamilton, 1990;  
     Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004;  
     Denson, Rasmussen, & Harris, 2016);  
 NC (Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 VA (Parker & Voshell, 1981; Armitage & Hamilton, 1990; Flint, Hoffman, & Parker, 2004).  
  
*Cyrnellus fraternus* (Banks, 1905), Cynrus, MD;  
     *Nyctiophylax marginalis* Banks, 1930, OH (Flint, 1964), questionably re-established as  
         *Cyrnellus marginalis* (Banks, 1930) by Rueda Martín, Gibon, & Sganga (2021);  
     *Cyrnellus zernyi* Mosely, 1934, Brazil (Ross, 1938);  
     larva (Flint, 1964);  
     male genitalia (Flint, 1974; Flint, 1982; Armitage & Hamilton, 1990; Houghton, 2012;  
         Rueda Martín, Gibon, & Sganga, 2021);  
     larva, net (Wiggins, 1977);  
     maxillary palp, wings, male & female genitalia (Schmid, 1980);  
     wings, male & female genitalia (Nimmo, 1986);  
     pupa (Johnson & Kennedy, 1997);  
     male genitalia & wings (de Camargos, 2020);  
     MD/VA (Flint & Butler, 1983);  
     MN to TX, eastward (Wiggins, 1977);  
     NC/SC (Unzicker, Resh, & Morse, 1982);  
     OK/TX (Resh, White, & White, 1978);  
     AL (Hamilton & Schuster, 1980; Harris et al, 1983; Nimmo, 1986; Harris, 1987;  
         Lago & Harris, 1987; Armitage & Hamilton, 1990; Frazer, Harris, & Ward, 1991;  
         Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Hicks & Haynes, 2000a;  
         Hicks & Haynes, 2000b; Harris & O'Neil, 2015; Denson, Rasmussen, & Harris, 2016);  
     AR (Unzicker, Aggus, & Warren, 1970; Hamilton & Schuster, 1980; Nimmo, 1986;  
         Bowles & Mathis, 1989; Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
         Bowles, Cheri, Usrey, & Williams, 2020);  
     CO (Ruitter, 1999);  
     DE (Lake, 1984; Moulton & Stewart, 1996);  
     FL (Frost, 1966; Gordon, 1984; Nimmo, 1986; Armitage & Hamilton, 1990;  
         Pescador, Rasmussen, & Harris, 1995, 2004; Mattson, Epler, & Hein, 1995;  
         Moulton & Stewart, 1996; Rasmussen, 2004; Zhou et al., 2011;  
         Denson, Rasmussen, & Harris, 2016);  
     GA (Nimmo, 1986; Armitage & Hamilton, 1990; Frazer, Harris, & Ward, 1991;  
         Moulton & Stewart, 1996; Murray-Stoker, Batzer, Murray-Stoker, & McHugh, 2020);  
     IA (Flint, 1964; Wenke, 1967; Hamilton & Schuster, 1980;  
         Nimmo, 1986; Armitage & Hamilton, 1990;  
         Moulton & Stewart, 1996; Blinn, Ruitter, & Flint, 2009;  
         Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
     IL (Harris, 1971; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990);

Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Harris & Lawrence, 1978; Waltz & McCafferty, 1983; Nimmo, 1986;  
 Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Hamilton & Schuster, 1980; Haag, Resh, & Neff, 1984; Nimmo, 1986;  
 Floyd & Schuster, 1990; Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
 Etnier, Bauer, & Zirkle, 2006; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Lago, Holzenthal, & Harris, 1982; Sparks, Jackson, Carpenter, & Muller, 1986;  
 Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
 MD (Banks, 1905; Hamilton & Schuster, 1980; Nimmo, 1986; Moulton & Stewart, 1996;  
 Flint, 2008; de Camargos, 2020);  
 ME (Bilger, 1986; Moulton & Stewart, 1996);  
 MI (Leonard & Leonard, 1949; Ellis, 1962; Hamilton & Schuster, 1980; Nimmo, 1986;  
 Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Wiggins, 1977; Schmid, 1980; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Moulton & Stewart, 1996; Ruiter, 1996;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Chamorro & Holzenthal, 2011;  
 Houghton, 2012; de Camargos, 2020;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Ross, 1944; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007;  
 Zhou et al., 2011; Bowles, 2020;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Lago, Holzenthal, & Harris, 1982; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Moulton & Stewart, 1996);  
 NC (Hamilton & Schuster, 1980; Nimmo, 1986; Morse, Hamilton, & Hoffman, 1989;  
 Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Floyd, Morse, & Harris, 1997;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NE (Nimmo, 1986; Moulton & Stewart, 1996; Zuellig, Heinold, Kondratieff, & Ruiter, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NY (Bilger, 1986; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
 OH (Banks, 1930; Marshall, 1939; Hamilton & Schuster, 1980; Huryn & Foote, 1983;  
 Nimmo, 1986; Garono & MacLean, 1988; Usis & Foote, 1989;  
 Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Armitage et al., 2011;  
 de Camargos, 2020;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Flint, 1964; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Bowles & Mathis, 1992; Moulton & Stewart, 1996;  
 Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006);  
 PA (Swegman, Walker, & Sykora, 1981; Armitage & Hamilton, 1990; Masteller & Flint, 1992;  
 Moulton & Stewart, 1996);  
 SC (Morse, Chapin, Herlong, & Harvey, 1980; Nimmo, 1986;  
 Morse, Hamilton, & Hoffman, 1989; Armitage & Hamilton, 1990; Floyd & Morse, 1993;  
 Moulton & Stewart, 1996; Floyd, Morse, & Harris, 1997);  
 TN (Edwards, 1955; Edwards, 1956; Edwards, 1966; Flint, 1964; Wiggins, 1977;  
 Etnier & Schuster, 1979; Hamilton & Schuster, 1980; Nimmo, 1986;  
 Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
 Etnier, Baxter, Fraley, & Parker, 1998; Etnier, Bauer, & Zirkle, 2006);

TX (Edwards & Arnold, 1961; Edwards, 1973; Wiggins, 1977;  
 Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Moulton & Stewart, 1996; Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997;  
 Johnson & Kennedy, 1997; Bowles, Tiemann, & Easley, 2007);  
 VA (Flint, 1964; Hamilton & Schuster, 1980; Parker & Voshell, 1981; Nimmo, 1986;  
 Armitage & Hamilton, 1990; Hoffman & Parker, 1997; Moulton & Stewart, 1996;  
 Flint, Hoffman, & Parker, 2004; Zhou et al., 2011; Flint, 2011);  
 WI (Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hamilton & Schuster, 1980; Nimmo, 1986;  
 Armitage & Hamilton, 1990; Hilsenhoff, 1995; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016);  
 Brazil (Mosely, 1934);  
 Mexico, El Salvador, Nicaragua, Panamá, Venezuela, Surinam,  
 Brazil, Argentina (Bueno-Soria & Flint, 1978;  
 Moulton & Stewart, 1996);  
 Mexico (Nimmo, 1986; Moulton & Stewart, 1996);  
 Amazon River basin (Ross, 1944; Nimmo, 1986).

*Holocentropus chellus* (Denning, 1964), *Polycentropus*, ND;  
 male genitalia (Nimmo, 1986; Armitage & Hamilton, 1990);  
 ND (Denning, 1964; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).  
*Holocentropus flavus* Banks, 1908, NF;  
 male & female genitalia (Ross, 1944);  
 male genitalia (Marshall & Larson, 1982; Houghton, 2012);  
 male & female genitalia (Nimmo, 1986; Armitage & Hamilton, 1990);  
 AB (Nimmo, 1986);  
 AK (Vineyard, 1982; Nimmo, 1986; Armitage & Hamilton, 1990);  
 BC (Ross & Spencer, 1952; Schmid & Guppy, 1952; Hardy, 1955;  
 Nimmo & Scudder, 1978; Nimmo & Scudder, 1983; Nimmo, 1986;  
 Flannagan & MacDonald, 1987; Armitage & Hamilton, 1990);  
 CA (Denning, 1956; Nimmo, 1986; Armitage & Hamilton, 1990; Resh & Mendez, 2022);  
 IA (Nimmo, 1986; Blinn, Ruiter, & Flint, 2009;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1944; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Armitage & Hamilton, 1990;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Neves, 1979; Nimmo, 1986);  
 MB (Neave, 1934; Flannagan & Flannagan, 1982; Nimmo, 1986; Flannagan & MacDonald, 1987;  
 Armitage & Hamilton, 1990);  
 ME (Blickle & Morse, 1966; Bilger, 1986; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Huryn & Harris, 2000);  
 MI (Ellis, 1962; Nimmo, 1986; Armitage & Hamilton, 1990; Houghton, 2016;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Nimmo, 1986; Armitage & Hamilton, 1990; MacLean, 1995; Monson, 1997;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Newell & Potter, 1973; Roemhild, 1982; Nimmo, 1986; Armitage & Hamilton, 1990);  
 ND (Harris, Lago, & Carlson, 1980; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NE (Nimmo, 1986;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

- NF (Banks, 1908; Marshall & Larson, 1982; Nimmo, 1986; Flannagan & MacDonald, 1987; Armitage & Hamilton, 1990);
- NH (Morse & Blickle, 1953; Nimmo, 1986; Armitage & Hamilton, 1990);
- NT (Nimmo, 1986);
- NV (Ruiter, Baumann, & Flint, 2014);
- NY (Sibley, 1926; Nimmo, 1986; Armitage & Hamilton, 1990; Myers, Kondratieff, Mihuc, & Ruiter, 2011);
- OH (MacLean & MacLean, 1984; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- OK (Nimmo, 1986; Bowles & Mathis, 1992);
- ON (Ross, 1944; Wiggins, 1973; Nimmo, 1986; Flannagan & MacDonald, 1987; Armitage & Hamilton, 1990);
- PA (Swegman, Walker, & Sykora, 1981; Masteller & Flint, 1992);
- PE (Nimmo, 1986);
- QC (Roy & Harper, 1975; Roy & Harper, 1979; Nimmo, 1986; Flannagan & MacDonald, 1987; Harper, 1989; Armitage & Hamilton, 1990);
- SD (Nimmo, 1986; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- SK (Nimmo, 1986);
- TN (Nimmo, 1986; Etnier, Baxter, Fraley, & Parker, 1998);
- TX (Nimmo, 1986);
- WA (Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Zack, Ruiter, Strenge, & Landolt, 2006; Blinn & Ruiter, 2013);
- WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Steven & Hilsenhoff, 1984; Nimmo, 1986; Armitage & Hamilton, 1990; Hilsenhoff, 1995; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- YT (Nimmo & Wickstrom, 1984; Nimmo, 1986; Wiggins & Parker, 1997).
- Holocentropus glacialis* Ross, 1938, IL;  
 male & female genitalia (Nimmo, 1986; Armitage & Hamilton, 1990);  
 male genitalia (Houghton, 2012);
- IL (Ross, 1938; Ross, 1944; Nimmo, 1986; Armitage & Hamilton, 1990; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- IN (Waltz & McCafferty, 1983; Nimmo, 1986; Armitage & Hamilton, 1990; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MI (Ross, 1944; Leonard & Leonard, 1949, misidentified, is *Plectrocnemia cinerea* according to Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018; Nimmo, 1986; Armitage & Hamilton, 1990; Houghton, 2020; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MN (MacLean, 1995; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- QC (Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1979; Nimmo, 1986; Armitage & Hamilton, 1990);
- VT (Bilger, 1986);
- WI (Ross, 1938; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Nimmo, 1986; Armitage & Hamilton, 1990; Hilsenhoff, 1995; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Holocentropus grellus* Milne, 1936, MA;  
 male genitalia (Nimmo, 1986; Armitage & Hamilton, 1990);
- MA (Milne, 1936; Nimmo, 1986; Armitage & Hamilton, 1990);
- NH (Morse & Blickle, 1953; Nimmo, 1986; Armitage & Hamilton, 1990);
- NY (Nimmo, 1986).
- Holocentropus interruptus* Banks, 1914, NH;  
*Holocentropus longus* Banks, 1914, MA (Ross, 1938);

Holocentropus orotus Banks, 1914 CO (Ross, 1938);  
 male & female genitalia (Ross, 1944);  
 maxillary palp, male wings, female hindwing, male sternum V, male  
 & female genitalia (Schmid, 1980);  
 male genitalia (Marshall & Larson, 1982);  
 male & female genitalia (Nimmo, 1986; Armitage & Hamilton, 1990);  
 fore-, hind wing (Chamorro & Holzenthal, 2011);  
 wings, maxillary palp, & male genitalia (Houghton, 2012);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AB (Nimmo, 1986);  
 AL (Harris, Kondratieff, & Stark, 1996);  
 BC (Schmid & Guppy, 1952; Ross & Spencer, 1952; Nimmo & Scudder, 1978; Nimmo, 1986;  
 Armitage & Hamilton, 1990);  
 CO (Banks, 1914; Ross, 1944; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 CT (Britton, 1938; Nelson, 1987; Downs & Godwin, 1987; Nelson & Downs, 1995);  
 DE (Lake, 1984);  
 FL (Gordon, 1984; Armitage & Hamilton, 1990; Pescador, Rasmussen, & Harris, 1995;  
 doubtful or erroneous according to Pescador, Rasmussen, & Harris, 2004);  
 IL (Betten 1934; Ross, 1944; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Armitage & Hamilton, 1990;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Banks, 1914; Ross, 1944; Neves, 1979; Bilger, 1986; Nimmo, 1986;  
 Armitage & Hamilton, 1990);  
 MB (Flannagan & Lawler, 1972; Flannagan & Flannagan, 1982; Nimmo, 1986;  
 Armitage & Hamilton, 1990);  
 ME (Procter, 1946; Blickle & Morse, 1966; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Hury & Harris, 2000);  
 MI (Ross, 1944; Ellis, 1962; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Davis, Hudson, & Armitage, 1991; Houghton, Brandin, & Brakel, 2011; Houghton, 2016;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton & Lardner, 2020; Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Lager, Johnson, Williams, & McCullough, 1979; Nimmo, 1986;  
 Armitage & Hamilton, 1990; MacLean, 1995; Monson, 1997;  
 Houghton, Holzenthal, Monson, & MacLean, 2001;  
 Houghton & Holzenthal, 2010; Chamorro & Holzenthal, 2011; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 ND (Harris, Lago, & Carlson, 1980; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NE (Harris, Kondratieff, & Boyle, 2000;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NF (Marshall & Larson, 1982; Nimmo, 1986; Armitage & Hamilton, 1990);  
 NH (Banks, 1914; Morse & Blickle, 1953; Nimmo, 1986; Armitage & Hamilton, 1990);  
 NS (Banks, 1914; Nimmo, 1986);  
 NT (Nimmo, 1986);  
 NY (Ross, 1944; McCabe, 1986; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Petersen & Foote, 1980; Hury & Foote, 1983; Usis & MacLean, 1986;  
 Garono & MacLean, 1988; Armitage & Hamilton, 1990; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Nimmo, 1986; Armitage & Hamilton, 1990);  
 PA (Masteller & Flint, 1979; Nimmo, 1986; Armitage & Hamilton, 1990);

- Masteller & Flint, 1992);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979; Nimmo, 1986; Armitage & Hamilton, 1990);  
 SK (Nimmo, 1986);  
 TN (Etnier, 1973; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Flint, Hoffman, & Parker, 2004);  
 VT (Wimmer, 1979);  
 WA (Blinn & Ruiter, 2013);  
 WI (Banks, 1914; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
 Nimmo, 1986; Armitage & Hamilton, 1990; Hilsenhoff, 1995;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Holocentropus melanae* Ross, 1938, MI;  
 male genitalia (Nimmo, 1986; Armitage & Hamilton, 1990; Houghton, 2012);  
 MI (Ross, 1938; Leonard & Leonard, 1949; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Houghton, Brandin, & Brakel, 2011;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1968; Nimmo, 1986; Armitage & Hamilton, 1990; Monson, 1997;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NH (Morse & Blickle, 1953; Nimmo, 1986; Armitage & Hamilton, 1990);  
 NS (Nimmo, 1986)  
 WI (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Holocentropus milaca* (Etnier, 1968), *Polycentropus*, MN;  
 male genitalia (Nimmo, 1986; Armitage & Hamilton, 1990; Houghton, 2012);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1968; Nimmo, 1986; Armitage & Hamilton, 1990; Houghton & Holzenthal, 2003;  
 Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Holocentropus picicornis* (Stephens, 1836), *Polycentropus*, England;  
 larva, pupal abdominal hook plates, anal processes; sieve plate (Lepneva, 1964/70);  
 wings, male & female genitalia (Tobias & Tobias, 1981);  
 male & female genitalia (Nimmo, 1986; Armitage & Hamilton, 1990);  
 larva (Hickin, 1967);  
 male genitalia (Houghton, 2012);  
 AB (Nimmo, 1986);  
 MB (Blickle & Morse, 1955; Nimmo, 1986; Armitage & Hamilton, 1990);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Nimmo, 1986; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ND (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NH (Morse & Blickle, 1957; Nimmo, 1986; Armitage & Hamilton, 1990; Orfinger, 2022);  
 NT (Blickle & Morse, 1955; Nimmo, 1986; Armitage & Hamilton, 1990);  
 SK (Blickle & Morse, 1955; Nimmo, 1986; Armitage & Hamilton, 1990);  
 Palearctic Region, Mongolia (Lepneva, 1964/70);  
 Britain (Hickin, 1967);  
 Europe (Stephens, 1836; Tobias & Tobias, 1981).
- Holocentropus timesis* (Denning, 1948), *Neureclipsis*, MA;  
*Polycentropus timesis* (Denning, 1948), (Orfinger, 2022);  
*Neureclipsis timesis* Denning, 1948, MA [transferred to *Polycentropus* by Weaver (1995)];  
 male genitalia (Armitage & Hamilton, 1990; Orfinger, 2022);  
 female genitalia (Orfinger, 2022);  
 photo adult male (Orfinger, 2022);

wing venation (Orfinger, 2022);  
MA (Denning, 1948; Armitage & Hamilton, 1990; Orfinger, 2022);  
MI (Houghton, Brandin, & Brakel, 2011;  
Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
Orfinger, 2022; Houghton, 2022;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NH (Blickle & Morse, 1955 as *Polycentropus picicornis*; Weaver, 1995; Orfinger, 2022).

*Neureclipsis bimaculata* (Linnaeus, 1758), Phryganea, Europe;  
larva, larval silk, pedal, maxillary, and mandibular glands, net-making behavior,  
net, pupal mandible, abdominal hook plates (Lepneva, 1964/70);  
larva (Hickin, 1967);  
larva, net (Wiggins, 1977);  
male sternum V, genitalia (Schmid, 1980);  
wings, male & female genitalia (Tobias & Tobias, 1981);  
male genitalia (Marshall & Larson, 1982; Houghton, 2012);  
male & female genitalia (Nimmo, 1986; Armitage & Hamilton, 1990);  
female genitalia (Denis, 1990);  
larval trochantin, pupal abdominal hook plates (Chamorro & Holzenthal, 2011);  
CLSM image of pharate adult & pupa foreleg tarsus (Friedrich & Kubiak, 2018);  
Canada (McLachlan, 1878; Ulmer, 1932; Betten, 1934);  
AB (Richardson & Clifford, 1983; Richardson & Clifford, 1986; Nimmo, 1986;  
Armitage & Hamilton, 1990);  
AK (Nimmo, 1986);  
BC (Ross & Spencer, 1952; Wiggins, 1977; Nimmo, 1986; Flannagan & MacDonald, 1987;  
Armitage & Hamilton, 1990);  
IL (Ross, 1944; Nimmo, 1986; Armitage & Hamilton, 1990;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
LB (Armitage & Hamilton, 1990);  
MB (Flannagan & Lawler, 1972; Flannagan & Flannagan, 1982; Resh, Rosenberg, & Wiens, 1983;  
Nimmo, 1986; Flannagan & MacDonald, 1987; Armitage & Hamilton, 1990);  
ME (Blickle & Morse, 1966; Nimmo, 1986; Armitage & Hamilton, 1990);  
MI (Davis, Hudson, & Armitage, 1991; Houghton, 2016;  
Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MN (Etnier, 1965; Nimmo, 1986; Armitage & Hamilton, 1990; Ruitter, 1996;  
Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MT (Roemhild, 1982; Nimmo, 1986; Armitage & Hamilton, 1990);  
ND (Harris, Lago, & Carlson, 1980; Nimmo, 1986; Armitage & Hamilton, 1990;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NF (Marshall & Larson, 1982; Flannagan & MacDonald, 1987);  
NH (Morse & Blickle, 1953; Nimmo, 1986; Armitage & Hamilton, 1990);  
NS (Nimmo, 1986);  
NT (Nimmo, 1986; Flannagan & MacDonald, 1987; Cordero, Sánchez-Ramírez, & Currie, 2017);  
NY (Bilger, 1986; Myers, Kondratieff, Mihuc, & Ruitter, 2011);  
OH (Tkac, 1973; Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
ON (Nimmo, 1986);  
PA (Masteller & Flint, 1992);  
QC (Ross, 1944; Robert, 1958; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1975;  
Roy & Harper, 1979; Nimmo, 1986; Flannagan & MacDonald, 1987;  
Armitage & Hamilton, 1990);  
SD (Wiggins, 1977; Nimmo, 1986; Armitage & Hamilton, 1990;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

SK (Nimmo, 1986);  
 WI (Ross, 1944; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
     Nimmo, 1986; Armitage & Hamilton, 1990; Hilsenhoff, 1995;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 YT (Wiggins & Parker, 1997);  
 northern Palearctic Region (Wiggins, 1977);  
 Palearctic Region (Lepneva, 1964/70);  
 Britain (Hickin, 1967);  
 Europe (Linnaeus, 1758; Tobias & Tobias, 1981).  
*Neureclipsis crepuscularis* (Walker, 1852), *Brachycentrus*, ON;  
*Neureclipsis parvula* Banks, 1907, MD (Milne, 1936);  
 internal female genitalia (Unzicker, 1968);  
 wings, phallus, female genitalia (Schmid, 1980);  
 hindwing, male genitalia (Marshall & Larson, 1982);  
 wings, male & female genitalia (Nimmo, 1986);  
 male & female genitalia (Armitage & Hamilton, 1990);  
 male genitalia (Houghton, 2012);  
 photo of larva, head & prothorax (Ruiter, Boyle, & Zhou, 2013);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AB (Nimmo, 1986; Moulton & Stewart, 1996);  
 AL (Harris et al, 1983; Harris, 1987; Lago & Harris, 1987; Armitage & Hamilton, 1990;  
     Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996;  
     Hicks & Haynes, 2000b; Harris & O'Neil, 2015);  
 AR (Ross, 1944; Unzicker, Aggus, & Warren, 1970; Hamilton & Schuster, 1980; Nimmo, 1986;  
     Bowles & Mathis, 1989; Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
     Bowles, Cheri, Usrey, & Williams, 2020);  
 CT (Harris, O'Neil, & Lago, 1991; Nelson & Downs, 1995; Moulton & Stewart, 1996);  
 DC (Banks, 1907; Hamilton & Schuster, 1980; Armitage & Hamilton, 1990;  
     Moulton & Stewart, 1996);  
 DE (Lake, 1984; Nimmo, 1986; Moulton & Stewart, 1996);  
 FL (Frost, 1966; Gordon, 1984; Armitage & Hamilton, 1990;  
     Pescador, Rasmussen, & Harris, 1995, 2004; Moulton & Stewart, 1996;  
     Rasmussen, 2004; Denson, Rasmussen, & Harris, 2016);  
 GA (Betten & Mosely, 1940; Nimmo, 1986; Armitage & Hamilton, 1990;  
     Moulton & Stewart, 1996);  
 IA (Wenke, 1967; Nimmo, 1986; Moulton & Stewart, 1996; Blinn, Ruiter, & Flint, 2009;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1944; Harris, 1971; Hamilton & Schuster, 1980; Nimmo, 1986;  
     Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1944; Hamilton & Schuster, 1980; Waltz & McCafferty, 1983; Bright, 1986;  
     Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
     Simon, Morris, Robb, & McCoy, 2015;  
     DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990;  
     Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Ross, 1944; Resh, 1975; Hamilton & Schuster, 1980; Nimmo, 1986;  
     Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006;  
     Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Lago, Holzenthal, & Harris, 1982; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
 LB (Armitage & Hamilton, 1990);  
 MA (Neves, 1979; Bilger, 1986; Nimmo, 1986; Armitage & Hamilton, 1990);



Moulton & Stewart, 1996);

MB (Flannagan, 1978; Hamilton & Schuster, 1980; Flannagan & Flannagan, 1982; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Zhou et al., 2011; Ruiter, Boyle, & Zhou, 2013; Chatila-Amos, 2021);

MD (Banks, 1907; Hamilton & Schuster, 1980; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Flint, 2008; Zhou et al., 2011);

ME (Blickle & Morse, 1966; Hamilton & Schuster, 1980; Mingo & Gibbs, 1980; Bilger, 1986; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Huryn & Harris, 2000);

MI (Ross, 1944; Leonard & Leonard, 1949; Ellis, 1962; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990; Davis, Hudson, & Armitage, 1991; Moulton & Stewart, 1996; Ruiter, 2010; Houghton, Brandin, & Brakel, 2011; Wright, Pytel, & Houghton, 2013; Houghton, 2016; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018; Houghton, 2022; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MN (Etnier, 1965; Nimmo, 1986; Armitage & Hamilton, 1990; MacLean, 1995; Moulton & Stewart, 1996; Ruiter, 1996; Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001; Zhou et al., 2011; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MO (Ross, 1944; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990; Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MS (Lago, Holzenthal, & Harris, 1982; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);

MT (Roemhild, 1982; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);

NB (Ross, 1944; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Zhou et al., 2011);

NC (Carpenter, 1933; Ross, 1944; Wray, 1950; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);

NF (Marshall & Larson, 1982; Nimmo, 1986; Moulton & Stewart, 1996);

NH (Morse & Blickle, 1953; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);

NS (Ross, 1944; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);

NY (Betten, 1926; Ross, 1944; Osgood, 1957; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Myers, Kondratieff, Mihuc, & Ruiter, 2011);

OH (Marshall, 1939; Ross, 1944; Hamilton & Schuster, 1980; Huryn & Foote, 1983; MacLean & MacLean, 1984; Nimmo, 1986; Garono & MacLean, 1988; Usis & Foote, 1989; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

OK (Nimmo, 1986; Bowles & Mathis, 1992; Moulton & Stewart, 1996);

ON (Walker, 1852; Sprules, 1947; Peterson, 1952; Hamilton & Schuster, 1980; Nimmo, 1986; Harper, 1989; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Zhou et al., 2011);

PA (Ross, 1944; Hamilton & Schuster, 1980; Swegman, Walker, & Sykora, 1981; Nimmo, 1986; Armitage & Hamilton, 1990; Masteller & Flint, 1992; Moulton & Stewart, 1996);

QC (Corbet, Schmid, & Augustin, 1966; Nimmo, 1966; Nimmo, 1986; Roy & Harper, 1975; Williams & Williams, 1979; Harper, 1979; Hamilton & Schuster, 1980; Harper, 1989; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);

SC (Cudney & Wallace, 1980; Morse, Chapin, Herlong, & Harvey, 1980; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);

SK (Nimmo, 1986; Moulton & Stewart, 1996);

- TN (Ross, 1944; Edwards, 1966; Etnier & Schuster, 1979; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998; Etnier, Bauer, & Zirkle, 2006);
- TX (Edwards & Arnold, 1961; Edwards, 1973; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997; Bowles, Tiemann, & Easley, 2007);
- VA (Ross, 1944; Hamilton & Schuster, 1980; Parker & Voshell, 1981; Nimmo, 1986; Armitage & Hamilton, 1990; Hoffman & Parker, 1997; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004; Zhou et al., 2011; Flint, 2011);
- VT (Wimmer, 1979; Moulton & Stewart, 1996);
- WI (Ross, 1944; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990; Lillie & Hilsenhoff, 1992; Hilsenhoff, 1995; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- WV (Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016);
- WY (Ruiter, 1996).
- Neureclipsis melco* Ross, 1947, GA;  
 male & female genitalia (Armitage & Hamilton, 1990);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris, Lago, & O'Neil, 1984; Harris, 1987; Lago & Harris, 1987; Armitage & Hamilton, 1990; Harris, O'Neil, & Lago, 1991; Hicks & Haynes, 2000a; Harris & O'Neil, 2015);  
 FL (Harris, Lago, & Scheiring, 1982; Gordon, 1984; Armitage & Hamilton, 1990; Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004; Denson, Rasmussen, & Harris, 2016);  
 GA (Ross, 1947; Armitage & Hamilton, 1990);  
 LA (Lago, Holzenthal, & Harris, 1982; Armitage & Hamilton, 1990);  
 NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 SC (Morse, Chapin, Herlong, & Harvey, 1980; Armitage & Hamilton, 1990);  
 TN (Etnier, Baxter, Fraley, & Parker, 1998);  
 TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997).
- Neureclipsis piersoni* Frazer & Harris, 1991, AL;  
 AL (Frazer & Harris, 1991; Frazer, Harris, & Ward, 1991);  
 AR (Etnier, 2010);  
 GA (Frazer & Harris, 1991; Frazer, Harris, & Ward, 1991);  
 IL (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Etnier, Bauer, & Zirkle, 2006; Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 TN (Etnier, Bauer, & Zirkle, 2006);  
 WI (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Neureclipsis valida* (Walker, 1852), *Polycentropus*, USA;  
*Hydropsyche dubitans* Walker, 1852 USA (Fischer, 1960);  
*Polycentropus signatus* Banks, 1897 NY (Milne, 1936);  
 adult mesonotum (Ross & Gibbs, 1973);  
 male & female genitalia (Nimmo, 1986; Armitage & Hamilton, 1990);  
 male genitalia (Houghton, 2012);  
 photos of larva, head & prothorax, abdominal sternum IX (Ruiter, Boyle, & Zhou, 2013);  
 USA (Walker, 1852);  
 MB (Neave, 1934; Flannagan & Lawler, 1972; Flannagan & Flannagan, 1982; Resh, Rosenberg, & Wiens, 1983; Nimmo, 1986; Armitage & Hamilton, 1990);

Ruiter, Boyle, & Zhou, 2013);  
 MI (Davis, Hudson, & Armitage, 1991;  
     Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Nimmo, 1986; Armitage & Hamilton, 1990; MacLean, 1995;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Chamorro & Holzenthal, 2011;  
     Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NJ (Smith, 1890);  
 NY (Banks, 1897; Betten, 1934; Ross, 1944; Nimmo, 1986; Armitage & Hamilton, 1990);  
 ON (Ross, 1944; Nimmo, 1986; Harper, 1989; Armitage & Hamilton, 1990);  
 QC (Corbet, Schmid, & Augustin, 1966; Nimmo, 1966; Nimmo, 1986; Roy & Harper, 1975;  
     Roy & Harper, 1979; Harper, 1989; Armitage & Hamilton, 1990);  
 SK (Nimmo, 1986);  
 WI (Hilsenhoff, 1975; not in WI, Hilsenhoff, 1981; Armitage & Hamilton, 1990;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).

*Nyctiophylax* (*Paranyctiophylax*) *affinis* (Banks, 1897), *Polycentropus*, Canada, NY;  
*Nyctiophylax zelenus* Denning, 1950 (Morse, 1972);  
 male & female genitalia (Ross, 1944; Armitage & Hamilton, 1990);  
 larva (Flint, 1964);  
 male genitalia (Morse, 1972; Houghton, 2012);  
 forewing, male genitalia (Marshall & Larson, 1982);  
 male & female genitalia (Nimmo, 1986);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AB (Moulton & Stewart, 1996);  
 AL (Harris et al, 1983; Harris, 1987; Lago & Harris, 1987; Armitage & Hamilton, 1990;  
     Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996;  
     Hicks & Haynes, 2000a; Hicks & Haynes, 2000b; Harris & O'Neil, 2015);  
 AR (Morse, 1972; Hamilton & Schuster, 1980; Nimmo, 1986; Bowles & Mathis, 1989;  
     Moulton & Stewart, 1996; Bowles, Cheri, Usrey, & Williams, 2020);  
 BC (Morse, 1972; Nimmo & Scudder, 1978; Hamilton & Schuster, 1980; Nimmo, 1986;  
     Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
 CT (Nelson & Downs, 1995);  
 DE (Lake, 1984; Moulton & Stewart, 1996);  
 FL (Harris, Lago, & Scheiring, 1982; Gordon, 1984; Armitage & Hamilton, 1990;  
     Pescador, Rasmussen, & Harris, 1995, 2004; Moulton & Stewart, 1996;  
     Rasmussen, 2004; Zhou et al., 2011; Denson, Rasmussen, & Harris, 2016);  
 GA (Frazer, Harris, & Ward, 1991; Moulton & Stewart, 1996);  
 IA (Blinn, Ruiter, & Flint, 2009;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Morse, 1972; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990;  
     Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Morse, 1972; Hamilton & Schuster, 1980; Waltz & McCafferty, 1983; Nimmo, 1986;  
     Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990;  
     Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Hamilton & Schuster, 1980; Haag, Resh, & Neff, 1984; Nimmo, 1986;  
     Floyd & Schuster, 1990; Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
     Zhou et al., 2011; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Lago, Holzenthal, & Harris, 1982; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);

MA (Morse, 1972; Neves, 1979; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);

MB (Flannagan & Flannagan, 1982; Resh, Rosenberg, & Wiens, 1983; Nimmo, 1986);

ME (Morse, 1972; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Huryn & Harris, 2000);

MI (Banks, 1907; Morse, 1972; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990; Davis, Hudson, & Armitage, 1991; Moulton & Stewart, 1996; Houghton, Brandin, & Brakel, 2011; Wright, Pytel, & Houghton, 2013; Houghton, 2016; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018; Houghton & Lardner, 2020; Houghton, 2022; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MN (Morse, 1972; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990; MacLean, 1995; Moulton & Stewart, 1996; Ruitter, 1996; Monson, 1997; Harris, Kondratieff, & Boyle, 2000; Houghton, Holzenthal, Monson, & MacLean, 2001; Chamorro & Holzenthal, 2011; Zhou et al., 2011; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MO (Morse, 1972; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990; Mathis & Bowles, 1992; Ferro & Sites, 2007; Bowles, 2020; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MS (Morse, 1972; Hamilton & Schuster, 1980; Lago, Holzenthal, & Harris, 1982; Nimmo, 1986; Armitage & Hamilton, 1990);

MT (Roemhild, 1982; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);

NB (Moulton & Stewart, 1996);

NC (Banks, 1908; Nimmo, 1986; Moulton & Stewart, 1996; DeWalt, Jacobus, & McCafferty, 2007; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);

ND (Harris, Lago, & Carlson, 1980; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

NF (Marshall & Larson, 1982; Nimmo, 1986; Armitage & Hamilton, 1990);

NH (Nimmo, 1986; Moulton & Stewart, 1996);

NJ (Morse, 1972; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990);

NS (Morse, 1972; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);

NY (Banks, 1897; Morse, 1972; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Myers, Kondratieff, Mihuc, & Ruitter, 2011);

OH (Masteller & Flint, 1979; Hamilton & Schuster, 1980; Petersen & Foote, 1980; Huryn & Foote, 1983; Nimmo, 1986; Usis & MacLean, 1986; Garono & MacLean, 1988; Usis & Foote, 1989; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

OK (Morse, 1972; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990; Bowles & Mathis, 1992; Moulton & Stewart, 1996; Zuellig, Kondratieff, Schmidt, Durfee, Ruitter, & Prather, 2006);

ON (Morse, 1972; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);

OR (Moulton & Stewart, 1996);

PA (Masteller & Flint, 1979; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990; Masteller & Flint, 1992; Moulton & Stewart, 1996);

QC (Morse, 1972; Roy & Harper, 1975; Roy & Harper, 1979; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);

SC (Morse, 1972; Morse, Chapin, Herlong, & Harvey, 1980; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);

SD (Morse, 1972; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990);

- Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 SK (Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
 TN (Etnier & Schuster, 1979; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998;  
 DeWalt & Heinold, 2005; Etnier, Bauer, & Zirkle, 2006);  
 TX (Denning, 1950; Morse, 1972; Hamilton & Schuster, 1980; Nimmo, 1986;  
 Armitage & Hamilton, 1990; Abbott, Stewart, & Moulton, 1997;  
 Moulton & Stewart, 1997; Bowles, Tiemann, & Easley, 2007);  
 VA (Parker & Voshell, 1981; Armitage & Hamilton, 1990; Hoffman & Parker, 1997;  
 Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004; Zhou et al., 2011;  
 Flint, 2011);  
 VT (Wimmer, 1979);  
 WA (Blinn & Ruiter, 2013);  
 WI (Morse, 1972; Hilsenhoff, 1975; Hamilton & Schuster, 1980; Nimmo, 1986;  
 Armitage & Hamilton, 1990; Hilsenhoff, 1995; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Tarter & Hill, 1979; Nimmo, 1986; Tarter, 1990; Armitage & Hamilton, 1990;  
 Moulton & Stewart, 1996; Tarter & Floyd, 2016);  
 WY (Ruiter & Lavigne, 1985).
- Nyctiophylax* (*Paranyctiophylax*) *banksi* Morse, 1972, SC;  
 wings, male genitalia (Nimmo, 1986);  
 male genitalia (Armitage & Hamilton, 1990; Houghton, 2012);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris et al, 1983; Harris, 1987; Lago & Harris, 1987, records  
 incorrect, *N. barrorum* according to  
 Harris, O'Neil, & Lago, 1991; Armitage & Hamilton, 1990;  
 Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991);  
 CT (Morse, 1972; Nimmo, 1986; Armitage & Hamilton, 1990);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Harris, O'Neil, & Lago, 1991);  
 ME (Morse, 1972; Mingo & Gibbs, 1980; Bilger, 1986; Nimmo, 1986;  
 Armitage & Hamilton, 1990; Huryn & Harris, 2000);  
 MN (Morse, 1972; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Lago, Holzenthal, & Harris, 1982, record suspect; Armitage & Hamilton, 1990);  
 NS (Zhou et al., 2011);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 ON (Morse, 1972; Nimmo, 1986; Armitage & Hamilton, 1990; Zhou et al., 2011);  
 PA (Masteller & Flint, 1992);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979; Nimmo, 1986; Armitage & Hamilton, 1990);  
 SC (Morse, 1972; Morse et al, 1979; Nimmo, 1986; Armitage & Hamilton, 1990);  
 TN (Etnier & Schuster, 1979; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005);  
 VA (Flint, Hoffman, & Parker, 2009).
- Nyctiophylax* (*Paranyctiophylax*) *barrorum* Morse, 1990, AL;  
 AL (Morse, 1990; Frazer, Harris, & Ward, 1991;  
 Harris, O'Neil, & Lago, 1991);  
 GA (Frazer, Harris, & Ward, 1991).
- Nyctiophylax* (*Paranyctiophylax*) *celta* Denning, 1948, GA;  
 larva (Ross, 1944, as *Psychomyiid* Genus B - Wiggins, 1977;  
 Flint 1964, as *Nyctiophylax vestitus* - Morse, 1972, Wiggins, 1977);  
 larva, male genitalia (Flint, 1964);  
 male genitalia (Morse, 1972; Nimmo, 1986; Armitage & Hamilton, 1990; Houghton, 2012);

NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris, Lago, & O'Neil, 1984; Harris, 1987; Lago & Harris, 1987;  
     Armitage & Hamilton, 1990; Frazer, Harris, & Ward, 1991;  
     Harris, O'Neil, & Lago, 1991; Harris & O'Neil, 2015);  
 AR (Unzicker, Aggus & Warren, 1970);  
 CT (Downs & Godwin, 1987);  
 FL (Morse, 1972; Gordon, 1984; Nimmo, 1986; Armitage & Hamilton, 1990;  
     Pescador, Rasmussen, & Harris, 1995, 2004; Denson, Rasmussen, & Harris, 2016);  
 GA (Denning, 1948; Morse, 1972; Nimmo, 1986; Armitage & Hamilton, 1990);  
 IL (Ross, 1944, as Psychomyiid Genus B; Flint, 1964, doubtful record; Morse, 1972;  
     Nimmo, 1986; Armitage & Hamilton, 1990;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Morse, 1972; Resh, 1975; Nimmo, 1986; Armitage & Hamilton, 1990;  
     Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MB (Flannagan & Lawler, 1972, doubtful record);  
 MD (Morse, 1972; Nimmo, 1986; Armitage & Hamilton, 1990);  
 ME (Blickle & Morse, 1966; Morse, 1972; Mingo & Gibbs, 1980;  
     Bilger, 1986; Nimmo, 1986; Armitage & Hamilton, 1990; Hury & Harris, 2000);  
 MI (Ellis, 1962, doubtful record);  
 MN (Etnier, 1965; Lager, Johnson, Williams, & McCullough, 1979; Nimmo, 1986;  
     Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Lago, Holzenthal, & Harris, 1982; Armitage & Hamilton, 1990);  
 NC (Flint, 1964, doubtful record; Morse, 1972; Nimmo, 1986;  
     Armitage & Hamilton, 1990; DeWalt, Jacobus, & McCafferty, 2007;  
     Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 NY (Morse, 1972; Bilger, 1986; Nimmo, 1986; Armitage & Hamilton, 1990;  
     Myers, Kondratieff, Mihuc, & Ruitter, 2011);  
 OK (Edwards, 1973, doubtful record);  
 ON (Nimmo, 1986);  
 PA (Masteller & Flint, 1992);  
 QC (Corbet, Schmid, & Augustin, 1966; Morse, 1972; Roy & Harper, 1975; Roy & Harper, 1979;  
     Nimmo, 1986; Armitage & Hamilton, 1990);  
 SC (Morse, 1972; Nimmo, 1986; Morse, Hamilton, & Hoffman, 1989;  
     Armitage & Hamilton, 1990; Floyd, Morse, & Harris, 1997);  
 TN (Edwards, 1966; Morse, 1972; Etnier & Schuster, 1979; Nimmo, 1986;  
     Armitage & Hamilton, 1990; Etnier, Baxter, Fraley, & Parker, 1998;  
     DeWalt & Heinold, 2005; Zhou et al., 2011);  
 TX (Edwards, 1973, doubtful record);  
 VA (Flint, 1964, doubtful record; Morse, 1972; Parker, & Voshell, 1981; Nimmo, 1986;  
     Armitage & Hamilton, 1990; Hoffman & Parker, 1997; Flint, Hoffman, & Parker, 2004);  
 WI (Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Armitage & Hamilton, 1990;  
     Hilsenhoff, 1995;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Morse, 1972; Tarter, & Hill, 1979; Nimmo, 1986; Tarter, 1990; Armitage & Hamilton, 1990;  
     Tarter & Floyd, 2016).  
 Nyctiophylax (Paranyctiophylax) denningi Morse, 1972, SC;  
     male genitalia (Armitage & Hamilton, 1990);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris et al, 1983; Harris, 1987; Lago & Harris, 1987; Armitage & Hamilton, 1990;  
     Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Hicks & Haynes, 2000a;  
     Zhou et al., 2011);  
 DE (Lake, 1984);  
 GA (Morse, 1972; Armitage & Hamilton, 1990);

MD (Zhou et al., 2011);  
 MS (Lago, Holzenthal, & Harris, 1982; Armitage & Hamilton, 1990);  
 NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 PA (Masteller & Flint, 1992);  
 SC (Morse, 1972; Morse, Hamilton, & Hoffman, 1989; Armitage & Hamilton, 1990;  
 Floyd, Morse, & Harris, 1997; Zhou et al., 2011);  
 TN (Morse, 1972; Etnier & Schuster, 1979; Armitage & Hamilton, 1990;  
 Etnier, Baxter, Fraley, & Parker, 1998; DeWalt, Jacobus, & McCafferty, 2007);  
 VA (Flint, Hoffman, & Parker, 2004).  
 Nyctiophylax (Paranyctiophylax) moestus Banks, 1911, BC;  
 larva (Noyes, 1914, as *Cyrnus pallidus*? - Wiggins, 1977; Ross, 1944;  
 Ross, 1959, as Psychomyiid Genus A - Wiggins, 1977;  
 Flint, 1964, as Nyctiophylax sp. A - Morse, 1972, Wiggins, 1977);  
 male genitalia (Morse, 1972; Nimmo, 1986; Armitage & Hamilton, 1990; Houghton, 2012);  
 AB (Nimmo, 1986; Moulton & Stewart, 1996);  
 AK (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 AL (Harris et al, 1983; Harris, 1987; Lago & Harris, 1987; Armitage & Hamilton, 1990;  
 Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Hicks & Haynes, 2000a);  
 AR (Moulton & Stewart, 1996);  
 BC (Banks, 1911; Morse, 1972; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Moulton & Stewart, 1996);  
 CT (Morse, 1972; Nimmo, 1986; Armitage & Hamilton, 1990; Nelson & Downs, 1995;  
 Moulton & Stewart, 1996);  
 DE (Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
 FL (Harris & Lawrence, 1978; Armitage & Hamilton, 1990;  
 Pescador, Rasmussen, & Harris, 1995; Moulton & Stewart, 1996;  
 doubtful or erroneous according to Pescador, Rasmussen, & Harris, 2004);  
 IL (Ross, 1944; Morse, 1972; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Morse, 1972; Waltz & McCafferty, 1983; Armitage & Hamilton, 1990;  
 Moulton & Stewart, 1996;  
 DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Morse, 1972; Neves, 1979; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Moulton & Stewart, 1996);  
 ME (Morse, 1972; Bilger, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
 Hury & Harris, 2000);  
 MI (Morse, 1972; Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
 Houghton, Brandin, & Brakel, 2011; Houghton, 2016;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Morse, 1972; Lager, Johnson, Williams, & McCullough, 1979; Nimmo, 1986;  
 Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Monson, 1997;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Ferro & Sites, 2007;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Roemhild, 1982; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
 NB (Nimmo, 1986; Moulton & Stewart, 1996; Zhou et al., 2011);  
 NC (Lenat & Penrose, 1987; Moulton & Stewart, 1996;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);

NH (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 NJ (Zhou et al., 2011);  
 NS (Morse, 1972; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Zhou et al., 2011);  
 NY (Morse, 1972; Bilger, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Myers, Kondratieff, Mihuc, & Ruiters, 2011);  
 OH (Huryn & Foote, 1983; Nimmo, 1986; Usis & MacLean, 1986; Garono & MacLean, 1988; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Moulton & Stewart, 1996; Zuellig, Kondratieff, Schmidt, Durfee, Ruiters, & Prather, 2006);  
 ON (Morse, 1972; Nimmo, 1986; Harper, 1989; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Zhou et al., 2011);  
 OR (Morse, 1972; Anderson, 1976; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
 PA (Morse, 1972; Swegman, Walker, & Sykora, 1981; Nimmo, 1986; Armitage & Hamilton, 1990; Masteller & Flint, 1992; Moulton & Stewart, 1996);  
 QC (Morse, 1972; Roy & Harper, 1975; Roy & Harper, 1979; Williams & Williams, 1979; Nimmo, 1986; Harper, 1989; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
 SC (Morse, Chapin, Herlong, & Harvey, 1980; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
 SD (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 SK (Nimmo, 1986; Moulton & Stewart, 1996);  
 TN (Etnier, 1973; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998; DeWalt, Jacobus, & McCafferty, 2007; Zhou et al., 2011);  
 VA (Parker & Voshell, 1981; Armitage & Hamilton, 1990; Hoffman & Parker, 1997; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004);  
 WI (Morse, 1972; Hilsenhoff, 1975; Steven & Hilsenhoff, 1984; Nimmo, 1986; Armitage & Hamilton, 1990; Hilsenhoff, 1995; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Morse, 1972; Tarter & Hill, 1979; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016).

Nyctiophylax (Paranyctiophylax) morsei Lago & Harris, 1983, FL;  
 male genitalia (Armitage & Hamilton, 1990);  
 AL (Lago & Harris, 1983; Lago & Harris, 1987; Harris, 1990; Armitage & Hamilton, 1990; Harris, O'Neil, & Lago, 1991; Harris & O'Neil, 2015);  
 FL (Lago & Harris, 1983; Harris, Lago, & Scheiring, 1982; Gordon, 1984; Armitage & Hamilton, 1990; Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004; Denson, Rasmussen, & Harris, 2016).

Nyctiophylax (Paranyctiophylax) nephophilus Flint, 1964, SC;  
 male genitalia (Morse, 1972; Armitage & Hamilton, 1990);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 GA (Morse, 1972; Etnier & Schuster, 1979; Armitage & Hamilton, 1990);  
 NC (Flint, 1964; Morse, 1972; Penrose, Lenat, & Eagleson, 1982; Armitage & Tennessen, 1984; Morse, Hamilton, & Hoffman, 1989; Armitage & Hamilton, 1990; Floyd, Morse, & Harris, 1997; DeWalt, Jacobus, & McCafferty, 2007; Lenat, Ruiters, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);  
 NY (Myers, Kondratieff, Mihuc, & Ruiters, 2011);  
 PA (Masteller & Flint, 1992; Zhou et al., 2011);  
 SC (Flint, 1964; Morse, 1972; Morse, Hamilton, & Hoffman, 1989; Armitage & Hamilton, 1990; Floyd & Morse, 1993; Floyd, Morse, & Harris, 1997; Zhou et al., 2011);  
 TN (Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005; Zhou et al., 2011);



- VA (Morse, 1972; Etnier & Schuster, 1979; Parker & Voshell, 1981; Armitage & Hamilton, 1990; Flint, Hoffman, & Parker, 2004; Zhou et al., 2011).
- Nyctiophylax (Paranyctiophylax) serratus Lago & Harris, 1985, AL;  
 male genitalia (Armitage & Hamilton, 1990);  
 AL (Lago & Harris, 1985; Harris, 1987; Lago & Harris, 1987; Armitage & Hamilton, 1990; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Hicks & Haynes, 2000a; Hicks & Haynes, 2000b; Harris & O'Neil, 2015; Denson, Rasmussen, & Harris, 2016);  
 AR (Moulton & Stewart, 1996; Etnier, 2010);  
 FL (Pescador, Rasmussen, & Harris, 2004; Rasmussen, 2004; Denson, Rasmussen, & Harris, 2016);  
 IL (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Moulton & Stewart, 1996; Ferro & Sites, 2007; Etnier, 2010; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Lago & Harris, 1985; Armitage & Hamilton, 1990);  
 OK (Moulton & Stewart, 1996);  
 TN (Etnier, Baxter, Fraley, & Parker, 1998; Etnier, Bauer, & Zirkle, 2006);  
 TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);  
 VA (Flint, Hoffman, & Parker, 2004).
- Nyctiophylax (Paranyctiophylax) uncus Ross, 1944, NY;  
 male genitalia (Morse, 1972; Nimmo, 1986; Armitage & Hamilton, 1990);  
 KY (Morse, 1972; Resh, 1975; Nimmo, 1986; Armitage & Hamilton, 1990; Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Whitmore 2008);  
 ME (Blickle & Morse, 1966; Morse, 1972; Nimmo, 1986; Armitage & Hamilton, 1990; Hury & Harris, 2000);  
 MI (Leonard & Leonard, 1949, misidentified, is *Nyctiophylax affinis* according to Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018; Nimmo, 1986; Armitage & Hamilton, 1990);  
 NH (Ross, 1944; Morse, 1972; Nimmo, 1986; Armitage & Hamilton, 1990);  
 NS (Zhou et al., 2011);  
 NY (Ross, 1944; Morse, 1972; Nimmo, 1986; Armitage & Hamilton, 1990; Myers, Kondratieff, Mihuc, & Ruitter, 2011);  
 OH (Tkac, 1972, doubtful record according to Armitage et al., 2011);  
 ON (Morse, 1972; Nimmo, 1986; Armitage & Hamilton, 1990);  
 PA (Masteller & Flint, 1992);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979; Nimmo, 1986; Armitage & Hamilton, 1990);  
 TN (Etnier & Schuster, 1979; Nimmo, 1986; Armitage & Hamilton, 1990; Etnier, Baxter, Fraley, & Parker, 1998);  
 WI (Hilsenhoff, 1995; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Tarter & Floyd, 2016).
- ? Nyctiophylax (Paranyctiophylax) vestitus (Hagen, 1861), *Polycentropus*, DC;  
 nomen dubium (Morse, 1972);  
 DC (Hagen, 1861).
- Plectrocnemia albipuncta* Banks, 1930, NS;  
 male & female genitalia (Nimmo, 1986; Armitage & Hamilton, 1990);  
 male genitalia (Houghton, 2012);  
 AB (Nimmo, 1986);  
 MA (Neves, 1979; Nimmo, 1986; Armitage & Hamilton, 1990);

ME (Procter, 1946; Blickle & Morse, 1966; Nimmo, 1986; Armitage & Hamilton, 1990; Huryn & Harris, 2000);

MI (Houghton, Brandin, & Brakel, 2011; Houghton, 2016; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018; Houghton, 2022; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MN (Etnier, 1965; Nimmo, 1986; Armitage & Hamilton, 1990; Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

NH (Morse & Blickle, 1953; Nimmo, 1986; Armitage & Hamilton, 1990);

NS (Banks, 1930; Nimmo, 1986; Armitage & Hamilton, 1990);

NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);

ON (Nimmo, 1986);

QC (Roy & Harper, 1975; Roy & Harper, 1979; Nimmo, 1986; Harper, 1989; Armitage & Hamilton, 1990)

WI (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).

*Plectrocnemia aureola* Banks, 1930, NS;

male genitalia (Marshall & Larson, 1982; Houghton, 2012);

male & female genitalia (Nimmo, 1986; Armitage & Hamilton, 1990);

photos of larva, head & prothorax, anal proleg (Ruiter, Boyle, & Zhou, 2013);

AB (Nimmo, 1986);

BC (Ross & Spencer, 1952; Nimmo & Scudder, 1978; Nimmo & Scudder, 1983; Nimmo, 1986; Armitage & Hamilton, 1990);

CO (Ruiter, 1990; Ruiter, 1996; Zuellig, Heinold, Kondratieff, & Ruiter, 2012; Mousa, Nachappa, Ruiter, Givens, & Fairchild, 2022);

ID (Nimmo, 1986);

MA (Neves, 1979; Nimmo, 1986; Armitage & Hamilton, 1990);

MB (Flannagan & Flannagan, 1982; Nimmo, 1986; Armitage & Hamilton, 1990; Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruiter, Boyle, & Zhou, 2013; Chatila-Amos, 2021);

ME (Blickle & Morse, 1966; Nimmo, 1986; Armitage & Hamilton, 1990; Huryn & Harris, 2000);

MI (Leonard & Leonard, 1949; tentative identification, Ellis, 1962; Nimmo, 1986; Armitage & Hamilton, 1990; Houghton, Brandin, & Brakel, 2011; Houghton, 2016; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MN (Ross, 1944; Etnier, 1965; Nimmo, 1986; Armitage & Hamilton, 1990; MacLean, 1995; Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

ND (Harris, Lago, & Carlson, 1980; Nimmo, 1986; Armitage & Hamilton, 1990; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

NF (Marshall & Larson, 1982; Nimmo, 1986; Armitage & Hamilton, 1990);

NH (Banks, 1930; Morse & Blickle, 1953; Nimmo, 1986; Armitage & Hamilton, 1990);

NS (Banks, 1930; Nimmo, 1986; Armitage & Hamilton, 1990);

NY (Nimmo, 1986);

OH (MacLean & MacLean, 1980; Huryn & Foote, 1983; MacLean & MacLean, 1984; Usis & MacLean, 1986; Armitage & Hamilton, 1990; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

ON (Wiggins, 1973; Nimmo, 1986; Blades & Marshall, 1994);

QC (Robert, 1958; Roy & Harper, 1975; Roy & Harper, 1979; Nimmo, 1986; Harper, 1989; Armitage & Hamilton, 1990);

SK (Nimmo, 1986);

WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Steven & Hilsenhoff, 1984; Nimmo, 1986; Armitage & Hamilton, 1990; Hilsenhoff, 1995; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

YT (Nimmo & Wickstrom, 1984; Nimmo, 1986; Wiggins & Parker, 1997).  
*Plectrocnemia cinerea* (Hagen, 1861), *Polycentropus*, Canada;  
*Polycentropus canadensis* Banks, 1897 Canada (Milne, 1936);  
*Holocentropus flavicornis* Banks, 1907 DC (as syn. of *P. canadensis* ?, Betten, 1934);  
*Plectrocnemia lutea* Betten, 1934 NY (Milne, 1936);  
*Plectrocnemia pallescens* Banks, 1930 OH (Milne, 1936);  
male & female genitalia (Ross, 1944);  
larval mandibles (Flint, 1964);  
male genitalia (Marshall & Larson, 1982; Houghton, 2012);  
male & female genitalia (Nimmo, 1986; Armitage & Hamilton, 1990);  
Canada (Hagen, 1861);  
NS to BC to WA, KS, TX, AR, TN, NC (Hamilton & Schuster, 1980);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
AB (Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
AK (Nimmo, 1986; Moulton & Stewart, 1996);  
AL (Harris et al, 1983; Harris, 1987; Lago & Harris, 1987; Armitage & Hamilton, 1990;  
Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996;  
Hicks & Haynes, 2000a; Zhou et al., 2011; Harris & O'Neil, 2015);  
AR (Unzicker, Aggus, & Warren, 1970; Hamilton & Schuster, 1980; Nimmo, 1986;  
Bowles & Mathis, 1989; Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
Bowles, 2020; Bowles, Cheri, Usrey, & Williams, 2020);  
BC (Ross, 1944; Ross & Spencer, 1952; Winterbourn, 1971; Nimmo & Scudder, 1978;  
Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990;  
Moulton & Stewart, 1996);  
CO (Herrmann, Ruiter, & Unzicker, 1986; Moulton & Stewart, 1996;  
Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
CT (Nelson, 1987; Downs & Godwin, 1987; Nelson & Downs, 1995; Moulton & Stewart, 1996);  
DC (Banks, 1907; Ross, 1944; Moulton & Stewart, 1996);  
DE (Lake, 1984; Nimmo, 1986; Moulton & Stewart, 1996);  
FL (Harris, Lago, & Scheiring, 1982; Gordon, 1984; Armitage & Hamilton, 1990;  
Pescador, Rasmussen, & Harris, 1995, 2004; Moulton & Stewart, 1996;  
Rasmussen, 2004; Zhou et al., 2011; Denson, Rasmussen, & Harris, 2016);  
IA (Blinn, Ruiter, & Flint, 2009);  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
ID (Newell & Minshall, 1977; Nimmo, 1986; Moulton & Stewart, 1996);  
IL (Betten, 1934; Ross, 1944; Harris, 1971; Nimmo, 1986; Armitage & Hamilton, 1990;  
Moulton & Stewart, 1996);  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
IN (Ross, 1944; Waltz & McCafferty, 1983; Nimmo, 1986; Armitage & Hamilton, 1990;  
Moulton & Stewart, 1996);  
DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
KS (Hamilton & Schuster, 1980; Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
KY (Ross, 1944; Resh, 1975; Haag, Resh, & Neff, 1984; Nimmo, 1986; Floyd & Schuster, 1990;  
Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006;  
Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
LA (Lago, Holzenthal, & Harris, 1982; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
MA (Harris, 1835; Neves, 1979; Nimmo, 1986; Armitage & Hamilton, 1990;  
Moulton & Stewart, 1996);  
MB (Neave, 1934; Flannagan & Lawler, 1972; Flannagan, 1978; Flannagan & Cobb, 1981;  
Flannagan & Flannagan, 1982; Resh, Rosenberg, & Wiens, 1983; Nimmo, 1986;  
Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Zhou et al., 2011);  
MD (Banks, 1907; Ross, 1941; Ross, 1944; Armitage & Hamilton, 1990);

Moulton & Stewart, 1996; Flint, 2008);

ME (Ross, 1944; Blickle & Morse 1966; Mingo & Gibbs, 1980; Bilger, 1986; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Huryn & Harris, 2000);

MI (Ross, 1944; Leonard & Leonard, 1949; Ellis, 1962; Nimmo, 1986; Armitage & Hamilton, 1990; Davis, Hudson, & Armitage, 1991; Moulton & Stewart, 1996; Houghton, Brandin, & Brakel, 2011; Wright, Pytel, & Houghton, 2013; DeWalt & South, 2015; Houghton, 2016; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018; Houghton, 2022; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MN (Banks, 1930; Ross, 1944; Lager, Johnson, Williams, & McCullough, 1979; Nimmo, 1986; Armitage & Hamilton, 1990; MacLean, 1995; Moulton & Stewart, 1996; Ruitter, 1996; Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton & Holzenthal, 2010; Zhou et al., 2011; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MO (Ross, 1944; Nimmo, 1986; Armitage & Hamilton, 1990; Mathis & Bowles, 1992; Moulton & Stewart, 1996; Bowles, 2020; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MS (Lago, Holzenthal, & Harris, 1982; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);

MT (Newell, 1970; Newell & Potter, 1973; Roemhild, 1982; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);

NB (Ross, 1944; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Zhou et al., 2011);

NC (Brimley, 1938; Ross, 1944; Wray, 1950; Hamilton & Schuster, 1980; Armitage & Tennessen, 1984; Nimmo, 1986; Morse, Hamilton, & Hoffman, 1989; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; DeWalt, Jacobus, & McCafferty, 2007; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);

ND (Harris, Lago, & Carlson, 1980; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

NE (Harris, Kondratieff, & Boyle, 2000; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

NF (Marshall & Larson, 1982; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);

NH (Ross, 1944; Morse & Blickle, 1953; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);

NJ (Zhou et al., 2011);

NS (Ross, 1944; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);

NT (Nimmo, 1986; Moulton & Stewart, 1996);

NY (Banks, 1907; Betten, 1934; Ross, 1944; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Myers, Kondratieff, Mihuc, & Ruitter, 2011);

OH (Banks, 1938; Marshall, 1939; Ross, 1944; Huryn & Foote, 1983; MacLean & MacLean, 1984; Nimmo, 1986; Usis & MacLean, 1986; Garono & MacLean, 1988; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

OK (Ross, 1944; Nimmo, 1986; Armitage & Hamilton, 1990; Bowles & Mathis, 1992; Moulton & Stewart, 1996);

ON (Ricker, 1934; Ross, 1944; Sprules, 1947; Munroe, 1951; Nimmo, 1986; Harper, 1989; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Zhou et al., 2011; Cordero, Sánchez-Ramírez, & Currie, 2017);

OR (Anderson, 1976; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);

PA (Ross, 1941; Ross, 1944; Masteller & Flint, 1980; Masteller & Flint, 1984;

- Swegman, Walker, & Sykora, 1981; Nimmo, 1986; Armitage & Hamilton, 1990; Masteller & Flint, 1992; Moulton & Stewart, 1996; Hoenig, Trevelline, Nuttle, & Porter, 2021);
- QC (Robert, 1958; Corbet, 1966; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1975; Roy & Harper, 1979; Nimmo, 1986; Harper, 1989; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);
- SC (Morse, Chapin, Herlong, & Harvey, 1980; Morse, Hamilton, & Hoffman, 1989; Armitage & Hamilton, 1990; Floyd & Morse, 1993; Moulton & Stewart, 1996; Floyd, Morse, & Harris, 1997);
- SD (Ross, 1944; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- SK (Ross, 1941; Ross, 1944; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);
- TN (Ross, 1944; Edwards, 1966; Etnier & Schuster, 1979; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005; Etnier, Bauer, & Zirkle, 2006; DeWalt, Jacobus, & McCafferty, 2007; Zhou et al., 2011);
- TX (Hall, 1950; Edwards & Arnold, 1961; Edwards 1973; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997; Bowles, Tiemann, & Easley, 2007);
- UT (Baumann & Unzicker, 1981; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);
- VA (Parker & Voshell, 1981; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004; Zhou et al., 2011; Flint, 2011);
- VT (Wimmer, 1979; Bilger, 1986);
- WA (Ross, 1944; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Zack, Ruiter, Streng, & Landolt, 2006; Zhou et al., 2011; Blinn & Ruiter, 2013);
- WI (Ross, 1944; Hilsenhoff et al, 1972; Hilsenhoff, 1975; Shapas & Hilsenhoff, 1976; Nimmo, 1986; Armitage & Hamilton, 1990; Lillie & Hilsenhoff, 1992; Hilsenhoff, 1995; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- WV (Tarter, 1990; Griffith & Perry, 1992; Moulton & Stewart, 1996; Zhou et al., 2011; Tarter & Floyd, 2016).
- Plectrocnemia clinei Milne, 1936, MA;  
 male genitalia (Blickle & Morse, 1955; Houghton, 2012);  
 male & female genitalia (Nimmo, 1986; Armitage & Hamilton, 1990);
- NC/SC (Unzicker, Resh, & Morse, 1982);
- AL (Lago & Harris, 1987; Harris, 1990; Harris, O'Neil, & Lago, 1991);
- CT (Nimmo, 1986; Nelson, 1987; Nelson & Downs, 1995);
- DE (Lake, 1984);
- FL (Pescador, Rasmussen, & Harris, 2004; Rasmussen, 2004);
- IN (DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MA (Milne, 1936; Nimmo, 1986; Armitage & Hamilton, 1990);
- MD (Milne, 1936; Nimmo, 1986; Armitage & Hamilton, 1990);
- MI (Houghton, Brandin, & Brakel, 2011; Houghton, 2016; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018; Houghton, 2022; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MN (Etnier, 1965, not this species, Etnier, 1968; Nimmo, 1986; Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MS (Lago, Holzenthal, & Harris, 1982; Armitage & Hamilton, 1990);

- NB (Nimmo, 1986);  
 NC (Nimmo, 1986; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NF (Nimmo, 1986);  
 NH (Blickle & Morse, 1955; Nimmo, 1986; Armitage & Hamilton, 1990);  
 NS (Denning, 1956; Nimmo, 1986; Armitage & Hamilton, 1990);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Usis & MacLean, 1986; Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Nimmo, 1986);  
 PA (Masteller & Flint, 1979; Nimmo, 1986; Armitage & Hamilton, 1990;  
     Masteller & Flint, 1992);  
 VA (Parker & Voshell, 1981; Armitage & Hamilton, 1990; Flint, Hoffman, & Parker, 2004);  
 WI (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Tarter & Hill, 1979; Nimmo, 1986; Tarter, 1990; Armitage & Hamilton, 1990;  
     Tarter & Floyd, 2016).
- Plectrocnemia crassicornis* (Walker, 1852), *Polycentropus*, GA;  
*Plectrocnemia adironica* Banks, 1914 NY (as syn. of *Plectrocnemia australis*, Milne, 1936);  
*Plectrocnemia australis* Banks, 1907, FL (Ross, 1944);  
 internal female genitalia (Unzicker, 1968);  
 male & female genitalia (Nimmo, 1986; Armitage & Hamilton, 1990);  
 male genitalia (Houghton, 2012);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris et al, 1983; Harris, 1987; Lago & Harris, 1987; Armitage & Hamilton, 1990;  
     Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Hicks & Haynes, 2000a;  
     Hicks & Haynes, 2000b; Harris & O'Neil, 2015);  
 AR (Unzicker, Aggus, & Warren, 1970; Hamilton & Schuster, 1980; Nimmo, 1986;  
     Bowles & Mathis, 1989; Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
     Etnier, 2010);  
 CT (Nelson, 1987; Downs & Godwin, 1987; Nelson & Downs, 1995; Moulton & Stewart, 1996);  
 DC (Hagen, 1861; Moulton & Stewart, 1996);  
 DE (Lake, 1984; Nimmo, 1986; Moulton & Stewart, 1996);  
 FL (Banks, 1907; Ross, 1944; Hamilton & Schuster, 1980; Gordon, 1984; Nimmo, 1986;  
     Armitage & Hamilton, 1990; Pescador, Rasmussen, & Harris, 1995, 2004;  
     Moulton & Stewart, 1996; Rasmussen, 2004; Denson, Rasmussen, & Harris, 2016);  
 GA (Walker, 1852; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990;  
     Moulton & Stewart, 1996);  
 ID (Newell & Minshall, 1977; Nimmo, 1986; Moulton & Stewart, 1996);  
 IL (Ross, 1944; Hamilton & Schuster, 1980; Armitage & Hamilton, 1990;  
     Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
     DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990;  
     Moulton & Stewart, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
     Etnier, Bauer, & Zirkle, 2006; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 LA (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 MA (Ross, 1944; Neves, 1979; Hamilton & Schuster, 1980; Nimmo, 1986;  
     Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
 MB (Zhou et al., 2011);  
 ME (Procter, 1946; Blickle & Morse, 1966; Hamilton & Schuster, 1980; Nimmo, 1986;  
     Armitage & Hamilton, 1990; Moulton & Stewart, 1996);

MI (Ross, 1944; Ellis, 1962; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MN (Etnier, 1965; Nimmo, 1986; Armitage & Hamilton, 1990; MacLean, 1995; Moulton & Stewart, 1996; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MO (Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MS (Lago, Holzenthal, & Harris, 1982; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);

MT (Ruitter, 1999);

NC (Brimley, 1938; Wray, 1950; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);

NH (Morse & Blickle, 1953; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);

NS (Nimmo, 1986; Moulton & Stewart, 1996);

NY (Banks, 1914; Sibley, 1926; Ross, 1944; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Myers, Kondratieff, Mihuc, & Ruitter, 2011);

OH (McElravy, Arsuffi, & Foote, 1977; Masteller & Flint, 1979; Hamilton & Schuster, 1980; Huryn & Foote, 1983; Nimmo, 1986; Usis & MacLean, 1986; Garono & MacLean, 1988; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

OK (Bowles & Mathis, 1992; Moulton & Stewart, 1996);

ON (Ross, 1944; Wiggins, 1973; Wiggins, Mackay, & Smith, 1980; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Zhou et al., 2011);

OR (Gerth, 2020);

PA (Masteller & Flint, 1979; Hamilton & Schuster, 1980; Swegman, Walker, & Sykora, 1981; Nimmo, 1986; Armitage & Hamilton, 1990; Masteller & Flint, 1992; Moulton & Stewart, 1996);

QC (Roy & Harper, 1975; Roy & Harper, 1979; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);

RI (Hunt, 2017);

SD (Ross, 1944; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

SK (Nimmo, 1986; Moulton & Stewart, 1996);

TN (Edwards, 1955; Edwards, 1956; Edwards, 1966; Etnier & Schuster, 1979; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005; Etnier, Bauer, & Zirkle, 2006);

TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);

VA (Hoffman & Parker, 1997; Flint, Hoffman, & Parker, 2004);

WI (Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Nimmo, 1986; Armitage & Hamilton, 1990; Hilsenhoff, 1995; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).

Plectrocnemia harpi (Moulton & Stewart, 1993), Polycentropus, TX;

AR (Moulton & Stewart, 1993; Moulton & Stewart, 1996; Etnier, 2010);

MO (Moulton & Stewart, 1996; Ferro & Sites, 2007; Etnier, 2010; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

OK (Moulton & Stewart, 1996);

TX (Moulton & Stewart, 1993; Moulton & Stewart, 1996; Moulton & Stewart, 1997);

VA (Flint, Hoffman, & Parker, 2008).

*Plectrocnemia icula* (Ross, 1941), *Polycentropus*, QC;  
 male & female genitalia (Nimmo, 1986; Armitage & Hamilton, 1990);  
 male genitalia (Houghton, 2012);  
 AB (Nimmo, 1986);  
 MA (Neves, 1979; Armitage & Hamilton, 1990);  
 ME (Huryn & Harris, 2000);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NB (Nimmo, 1986);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 QC (Ross, 1941; Roy & Harper, 1975; Roy & Harper, 1979;  
 Williams & Williams, 1979; Nimmo, 1986; Harper, 1989;  
 Armitage & Hamilton, 1990);  
 VT (Wimmer, 1979);  
 WI (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).

*Plectrocnemia jenula* (Denning, 1966), *Polycentropus*, AB;  
 male genitalia (Nimmo, 1986; Armitage & Hamilton, 1990);  
 AB (Denning & Sykora, 1966; Nimmo, 1986; Armitage & Hamilton, 1990).

*Plectrocnemia nascotia* (Ross, 1941), *Polycentropus*, NS;  
 male & female genitalia (Nimmo, 1986; Armitage & Hamilton, 1990);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 OK/TX (Resh, White, & White, 1978);  
 AL (Lago & Harris, 1987; Harris, 1990; Frazer, Harris, & Ward, 1991;  
 Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Harris & O'Neil, 2015);  
 DE (Lake, 1984; Nimmo, 1986; Moulton & Stewart, 1996);  
 FL (Frost, 1966; Pescador, Rasmussen, & Harris, 2004; Denson, Rasmussen, & Harris, 2016);  
 GA (Frazer, Harris, & Ward, 1991; Moulton & Stewart, 1996);  
 IN (Waltz & McCafferty, 1983; Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 ME (Bilger, 1986; Moulton & Stewart, 1996; Huryn & Harris, 2000);  
 MI (Ruiter, 2010;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 NB (Ross, 1941; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Moulton & Stewart, 1996);  
 NC (Moulton & Stewart, 1996; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Morse & Blickle, 1953; Hamilton & Schuster, 1980; Nimmo, 1986;  
 Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
 NS (Ross, 1941; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Moulton & Stewart, 1996);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (McElravy & Foote, 1978, doubtful record, Huryn & Foote, 1983;  
 Hamilton & Schuster, 1980, doubtful record; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Moulton & Stewart, 1996; Armitage et al., 2011);



Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Hamilton & Schuster, 1980; Nimmo, 1986; Bowles & Mathis, 1992;  
 Moulton & Stewart, 1996);  
 ON (Nimmo, 1986);  
 PA (Nimmo, 1986; Masteller & Flint, 1992; Moulton & Stewart, 1996);  
 QC (Robert, 1958; Corbet, Schmid, & Augustin, 1966; Roy & Harper, 1975; Roy & Harper, 1979;  
 Hamilton & Schuster, 1980; Nimmo, 1986;  
 Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
 SC (Morse, Chapin, Herlong, & Harvey, 1980; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Moulton & Stewart, 1996);  
 TX (Moulton & Stewart, 1996; unconfirmed or dubious according to Moulton & Stewart, 1997);  
 VA (Flint, Hoffman, & Parker, 2004);  
 WI (Ross, 1941; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hamilton & Schuster, 1980;  
 Nimmo, 1986; Armitage & Hamilton, 1990; Hilsenhoff, 1995; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022)).  
 Plectrocnemia remota (Banks, 1911), Polycentropus, BC;  
 male & female genitalia (Ross, 1944);  
 male genitalia (Marshall & Larson, 1982; Houghton, 2012);  
 male & female genitalia (Nimmo, 1986; Armitage & Hamilton, 1990);  
 AB (Nimmo, 1986);  
 AK (Vineyard, 1982; Nimmo, 1986; Armitage & Hamilton, 1990);  
 BC (Banks, 1911; Gibson, 1912; Ross, 1938; Ross & Spencer, 1952; Schmid & Guppy, 1952;  
 Hardy, 1955; Nimmo & Scudder, 1978; Nimmo, 1986; Armitage & Hamilton, 1990);  
 CT (Downs & Godwin, 1987; Nelson & Downs, 1995);  
 DE (Lake, 1984);  
 IL (Ross, 1944; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Bright, 1986; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Neves, 1979; Bilger, 1986; Nimmo, 1986; Armitage & Hamilton, 1990);  
 MB (Flannagan & Lawler, 1972; Flannagan & Flannagan, 1982;  
 Resh, Rosenberg, & Wiens, 1983; Nimmo, 1986; Armitage & Hamilton, 1990);  
 ME (Blickle & Morse, 1966; Nimmo, 1986; Armitage & Hamilton, 1990; Huryn & Harris, 2000);  
 MI (Leonard & Leonard, 1949; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Davis, Hudson, & Armitage, 1991; Houghton, Brandin, & Brakel, 2011; Houghton, 2016;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Ross, 1944; Etnier, 1965; Lager, Johnson, Williams, & McCullough, 1979; Nimmo, 1986;  
 Armitage & Hamilton, 1990; MacLean, 1995; Monson, 1997;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Nimmo, 1986);  
 NF (Marshall & Larson, 1982; Nimmo, 1986; Armitage & Hamilton, 1990);  
 NH (Ross, 1944; Morse & Blickle, 1953; Nimmo, 1986; Armitage & Hamilton, 1990);  
 NY (Ross, 1944; Bilger, 1986; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Myers, Kondratieff, Mihuc, & Ruitter, 2011);  
 OH (McElravy, Arsuffi, & Foote, 1977; Huryn & Foote, 1983; MacLean & MacLean, 1984;  
 Nimmo, 1986; Usis & MacLean, 1986; Garono & MacLean, 1988;  
 Armitage & Hamilton, 1990; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Nimmo, 1986);

- PA (Masteller & Flint, 1979; Swegman, Walker, & Sykora, 1981; Nimmo, 1986; Armitage & Hamilton, 1990; Masteller & Flint, 1992);
- QC (Roy & Harper, 1975; Roy & Harper, 1979; Nimmo, 1986; Harper, 1989; Armitage & Hamilton, 1990);
- SK (Nimmo, 1986);
- VA (Roble, Flint, & Harris, 2019);
- WA (Nimmo, 1986);
- WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Steven & Hilsenhoff, 1984; Nimmo, 1986; Armitage & Hamilton, 1990; Hilsenhoff, 1995; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- YT (Wiggins & Parker, 1997).
- Plectrocnemia sabulosa* (Leonard & Leonard, 1949), *Polycentropus*, MI  
male genitalia (Nimmo, 1986; Armitage & Hamilton, 1990);
- MI (Leonard & Leonard, 1949; Ellis, 1962; Nimmo, 1986; Armitage & Hamilton, 1990; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018; Houghton, 2020; Houghton, 2022; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Plectrocnemia smithae* (Denning, 1949), *Polycentropus*, NH;  
male & female genitalia (Nimmo, 1986; Armitage & Hamilton, 1990);  
photo of larva (Ruitter, Boyle, & Zhou, 2013);
- AB (Nimmo, 1986);
- BC (Nimmo & Scudder, 1978; Nimmo, 1986; Armitage & Hamilton, 1990);
- MB (Ruitter, Boyle, & Zhou, 2013);
- NF (Larson & House, 1990);
- NH (Denning, 1949; Nimmo, 1986; Armitage & Hamilton, 1990);
- NT (Nimmo, 1986; Cordero, Sánchez-Ramírez, & Currie, 2017);
- OH (Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- ON (Nimmo, 1986);
- QC (Roy & Harper, 1975; Roy & Harper, 1979; Nimmo, 1986; Harper, 1989; Armitage & Hamilton, 1990);
- YT (Denning, 1956; Nimmo & Wickstrom, 1984; Nimmo, 1986; Armitage & Hamilton, 1990; Wiggins & Parker, 1997).
- Plectrocnemia vigilatrix* (Navás, 1933), *Polycentropus*, MA;  
MA (Navás, 1933).
- Plectrocnemia weedi* (Blickle & Morse, 1955), *Polycentropus*, NH;  
female genitalia (Wiggins, 1961);  
male genitalia (Marshall & Larson, 1982; Houghton, 2012);  
male & female genitalia (Nimmo, 1986; Armitage & Hamilton, 1990);  
fore-, hind wing (Chamorro & Holzenthal, 2011; de Camargos, 2020);
- AB (Nimmo, 1986);
- BC (Nimmo & Scudder, 1983; Nimmo, 1986; Armitage & Hamilton, 1990);
- LB (Wiggins, 1961; Nimmo, 1986);
- MI (Houghton, Brandin, & Brakel, 2011; Houghton, 2016; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- ME (Blickle & Morse, 1966; Nimmo, 1986; Armitage & Hamilton, 1990; Huryn & Harris, 2000);
- MN (Etnier, 1968; Nimmo, 1986; Armitage & Hamilton, 1990; Monson, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001; Chamorro & Holzenthal, 2011; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- NB (Nimmo, 1986);
- NF (Wiggins, 1961; Marshall & Larson, 1982; Nimmo, 1986; Armitage & Hamilton, 1990);
- NH (Blickle & Morse, 1955; Nimmo, 1986; Armitage & Hamilton, 1990);

NS (Nimmo, 1986);  
NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
ON (Nimmo, 1986);  
QC (Roy & Harper, 1979; Harper, 1989; Armitage & Hamilton, 1990);  
WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Nimmo, 1986;  
Armitage & Hamilton, 1990; Hilsenhoff, 1995;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
YT (Wiggins & Parker, 1997).

- Polycentropus aileenae* Orfinger & Moulton, 2021, TN;  
photo of adult male habitus (Orfinger & Moulton, 2021);  
male & female genitalia (Orfinger & Moulton, 2021);  
NS (Orfinger & Moulton, 2021);  
PA (Orfinger & Moulton, 2021);  
TN (Orfinger & Moulton, 2021).
- Polycentropus alabamensis* Hamilton, Harris, & Lago, 1990, AL;  
photo of larval head (Orfinger, Morse, & Hix, 2022);  
AL (Harris, O'Neil, & Lago, 1991; Hicks & Haynes, 2000a);
- Polycentropus arizonensis* Banks, 1905, AZ;  
male genitalia (Armitage & Hamilton, 1990);  
female genitalia (Ruiter & Blinn, 2009);  
AZ (Banks, 1905; Armitage & Hamilton, 1990; Moulton, Stewart, & Young, 1994; Ruiter, 1995;  
Ruiter, 1996; Houghton, 2001; Blinn & Ruiter, 2006; Blinn, Ruiter, & Haden, 2012;  
Orfinger, Hix, Gerth, & Rasmussen, 2022);  
NM (Denning, 1956; Armitage & Hamilton, 1990; Orfinger, Hix, Gerth, & Rasmussen, 2022);  
UT (Orfinger, Hix, Gerth, & Rasmussen, 2022);  
Mexico (Flint, 1967; Armitage & Hamilton, 1990).
- Polycentropus aztecus* Flint, 1967, Mexico (Michoacan);  
AZ (Blinn & Ruiter, 2006; Orfinger, Hix, Gerth, & Rasmussen, 2022);  
Mexico (Flint, 1967).
- Polycentropus barri* Ross & Yamamoto, 1965, KY;  
male genitalia (Armitage & Hamilton, 1990);  
AL (Lago & Harris, 1987; Harris, 1987; Harris, 1990; Harris, O'Neil, & Lago, 1991);  
KY (Ross & Yamamoto, 1965; Resh, 1975; Armitage & Hamilton, 1990;  
Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
PA (Masteller & Flint, 1992);  
TN (Etnier & Schuster, 1979; Armitage & Hamilton, 1990;  
Etnier, Baxter, Fraley, & Parker, 1998).
- Polycentropus blicklei* Ross & Yamamoto, 1965, NH;  
male genitalia (Marshall & Larson, 1982);  
male & female genitalia (Nimmo, 1986; Armitage & Hamilton, 1990);  
female genitalia (Hoffman & Morse, 1990);  
photo of larval head (Orfinger, Morse, & Hix, 2022);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
AL (Harris, 1987; Lago & Harris, 1987; Frazer, Harris, & Ward, 1991;  
Harris, O'Neil, & Lago, 1991; Hicks & Haynes, 2000a; Harris & O'Neil, 2015);  
DE (Lake, 1984);  
FL (Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004;  
Denson, Rasmussen, & Harris, 2016);  
GA (Hoffman & Morse, 1990; Harris, O'Neil, & Lago, 1991);  
KY (Resh, 1975; Nimmo, 1986; Armitage & Hamilton, 1990;  
Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MD (Harris, O'Neil, & Lago, 1991);  
 ME (Huryñ & Harris, 2000);  
 MS (Ross & Yamamoto, 1965; Lago, Holzenthal, & Harris, 1982; Nimmo, 1986;  
     Armitage & Hamilton, 1990);  
 NB (Nimmo, 1986; Zhou et al., 2011);  
 NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NF (Marshall & Larson, 1982; Nimmo, 1986; Armitage & Hamilton, 1990);  
 NH (Ross & Yamamoto, 1965; Nimmo, 1986; Armitage & Hamilton, 1990);  
 NJ (Harris, O'Neil, & Lago, 1991);  
 NS (Nimmo, 1986);  
 NY (Harris, O'Neil, & Lago, 1991);  
 OH (Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Nimmo, 1986; Zhou et al., 2011);  
 PA (Masteller & Flint, 1979; Masteller & Flint, 1984; Nimmo, 1986; Armitage & Hamilton, 1990;  
     Masteller & Flint, 1992);  
 QC (Roy & Harper, 1979; Nimmo, 1986; Armitage & Hamilton, 1990);  
 RI (Hoffman & Morse, 1990; Harris, O'Neil, & Lago, 1991, in error, Hunt, 2017);  
 SC (Morse et al, 1979; Morse, Chapin, Herlong, & Harvey, 1980; Nimmo, 1986;  
     Hoffman & Morse, 1990; Armitage & Hamilton, 1990; Floyd & Morse, 1993);  
 TN (Etnier & Schuster, 1979; Nimmo, 1986; Armitage & Hamilton, 1990;  
     Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Harris, O'Neil, & Lago, 1991; Flint, Hoffman, & Parker, 2004; Flint, 2011).  
*Polycentropus carlsoni* Morse, 1971, SC;  
     male genitalia (Armitage & Hamilton, 1990);  
     female genitalia (Hoffman & Morse, 1990);  
     photo of larval head (Orfinger, Morse, & Hix, 2022);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Lago & Harris, 1987; Harris, 1990; Hoffman & Morse, 1990;  
     Harris, O'Neil, & Lago, 1991; Morse et al, 1997);  
 MD (Flint, Hoffman, & Parker, 2009);  
 NC (Etnier, Baxter, Fraley, & Parker, 1998;  
     Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 SC (Morse, 1971; Morse et al, 1979; Armitage & Hamilton, 1990;  
     Hoffman & Morse, 1990; Floyd & Morse, 1993;  
     Morse et al, 1997);  
 TN (Moulton, 2007);  
 VA (Flint, Hoffman, & Parker, 2009; Flint, 2011; Flint, 2017).  
*Polycentropus carolinensis* Banks, 1905, NC;  
     male genitalia (Nimmo, 1986; Armitage & Hamilton, 1990);  
     photo of larval head (Orfinger, Morse, & Hix, 2022);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Banks, 1905; Nimmo, 1986; Armitage & Hamilton, 1990;  
     Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);  
 NH (Morse & Blickle, 1957; Nimmo, 1986; Armitage & Hamilton, 1990);  
 OH (Huryñ & Foote, 1981; Huryñ & Foote, 1983; Garono & MacLean, 1988;  
     Armitage & Hamilton, 1990; Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Singh, Smith, & Harrison, 1984a);  
 PA (Masteller & Flint, 1980; Swegman, Walker, & Sykora, 1981; Armitage & Hamilton, 1990;  
     Masteller & Flint, 1992);  
 QC (Roy & Harper, 1979; Nimmo, 1986; Armitage & Hamilton, 1990);  
 TN (Etnier & Schuster, 1979; Nimmo, 1986; Armitage & Hamilton, 1990);

Etnier, Baxter, Fraley, & Parker, 1998; Zhou et al., 2011);  
 VA (Parker & Voshell, 1981; Armitage & Hamilton, 1990; Flint, Hoffman, & Parker, 2004;  
 Zhou et al., 2011; Flint, 2011);  
 VT (Wimmer, 1979).

*Polycentropus centralis* Banks, 1914, MO;  
 male & female genitalia (Ross, 1944);  
 protibia, wings, mesonotum, male genitalia (Marshall & Larson, 1982);  
 male & female genitalia (Nimmo, 1986; Armitage & Hamilton, 1990);  
 male genitalia (Houghton, 2012);  
 photo of larval head (Orfinger, Morse, & Hix, 2022);  
 AL (Harris, 1987; Lago & Harris, 1987; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 AR (Ross, 1944; Unzicker, Aggus, & Warren, 1970; Hamilton & Schuster, 1980; Nimmo, 1986;  
 Bowles & Mathis, 1989; Armitage & Hamilton, 1990; Bowles & Allen, 1992;  
 Moulton & Stewart, 1996; Bowles, 2020; Bowles, Cheri, Usrey, & Williams, 2020);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1944; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KS (Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Floyd & Schuster, 1990; Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Lager, Johnson, Williams, & McCullough, 1979; Nimmo, 1986;  
 Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Banks, 1914; Ross, 1944; Hamilton & Schuster, 1980; Nimmo, 1986;  
 Armitage & Hamilton, 1990; Mathis & Bowles, 1992; Moulton & Stewart, 1996;  
 Ferro & Sites, 2007; Bowles, 2020;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Lago, Holzenthal, & Harris, 1982; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
 NF (Marshall & Larson, 1982; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Moulton & Stewart, 1996);  
 NS (Nimmo, 1986; Moulton & Stewart, 1996);  
 NY (Ross, 1944; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Moulton & Stewart, 1996);  
 OH (McElravy, Arsuffi, & Foote, 1977; Petersen & Foote, 1980; Huryn & Foote, 1983;  
 Nimmo, 1986; Usis & MacLean, 1986; Armitage & Hamilton, 1990;  
 Moulton & Stewart, 1996; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Ross, 1944; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Bowles & Mathis, 1992; Moulton & Stewart, 1996;  
 Zuellig, Kondratieff, Schmidt, Durfee, Ruiter, & Prather, 2006);  
 ON (Nimmo, 1986; Moulton & Stewart, 1996);  
 PA (Masteller & Flint, 1979; Masteller & Flint, 1984; Hamilton & Schuster, 1980; Nimmo, 1986;  
 Armitage & Hamilton, 1990; Masteller & Flint, 1992; Moulton & Stewart, 1996);  
 TN (Edwards, 1966; Etnier & Schuster, 1979; Hamilton & Schuster, 1980; Nimmo, 1986;  
 Armitage & Hamilton, 1990; Moulton & Stewart, 1996);

- Etnier, Baxter, Fraley, & Parker, 1998; Etnier, Bauer, & Zirkle, 2006);  
 TX (Edwards, 1973; Hamilton & Schuster, 1980; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Moulton & Stewart, 1996; Moulton & Stewart, 1997);  
 VA (Flint, Hoffman, & Parker, 2004);  
 WI (Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Steven & Hilsenhoff, 1984; Nimmo, 1986;  
 Armitage & Hamilton, 1990; Hilsenhoff, 1995; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Tarter & Floyd, 2016).
- Polycentropus chelatus* Ross & Yamamoto, 1965, TN;  
 male genitalia (Armitage & Hamilton, 1990);  
 AL (Harris et al, 1983; Harris, 1987; Lago & Harris, 1991; Harris, O'Neil, & Lago, 1991;  
 Moulton & Stewart, 1996);  
 IN (Waltz & McCafferty, 1983; Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Etnier & Schuster, 1979; Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 TN (Ross & Yamamoto, 1965; Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
 Etnier, Baxter, Fraley, & Parker, 1998; Etnier, Bauer, & Zirkle, 2006).
- Polycentropus chenoides* Ross & Yamamoto, 1965, NY;  
 male genitalia (Armitage & Hamilton, 1990);  
 DE (Lake, 1984);  
 NY (Ross & Yamamoto, 1965; Armitage & Hamilton, 1990);  
 PA (Masteller & Flint, 1992).
- Polycentropus colei* Ross, 1941, TN;  
 phallus (Ross & Yamamoto, 1965);  
 wings, male genitalia (Nimmo, 1986);  
 male genitalia (Armitage & Hamilton, 1990);  
 photo of larval head (Orfinger, Morse, & Hix, 2022);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Floyd, Morse, & Harris, 1997; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010;  
 Zhou et al., 2011);  
 PA (Masteller & Flint, 1992);  
 QC (Roy & Harper, 1979; Nimmo, 1986; Armitage & Hamilton, 1990);  
 TN (Ross, 1941; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Flint, 2014; Flint, 2017);  
 WV (Tarter, 1990; Tarter & Floyd, 2016).
- Polycentropus confusus* Hagen, 1861, DC;  
 male & female genitalia (Ross, 1944);  
 male genitalia (Marshall & Larson, 1982; Houghton, 2012);  
 male & female genitalia (Nimmo, 1986; Armitage & Hamilton, 1990);  
 photo of larval head (Orfinger, Morse, & Hix, 2022);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AB (Zhou et al., 2011);  
 AL (Harris et al, 1983; Harris, 1987; Lago & Harris, 1987; Armitage & Hamilton, 1990;  
 Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996;  
 Hicks & Haynes, 2000a; Harris & O'Neil, 2015);  
 AR (Ross, 1944; Unzicker, Aggus, & Warren, 1970; Nimmo, 1986; Bowles & Mathis, 1989;  
 Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Etnier, 2010;  
 Bowles, 2020; Bowles, Cheri, Usrey, & Williams, 2020);  
 CT (Harris, O'Neil, & Lago, 1991; Nelson & Downs, 1995; Moulton & Stewart, 1996);

DC (Hagen, 1861; Banks, 1904; Moulton & Stewart, 1996);  
 DE (Lake, 1984; Nimmo, 1986; Moulton & Stewart, 1996);  
 FL (Orfinger & Moulton, 2021);  
 GA (Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Zhou et al., 2011);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996; DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Nimmo, 1986; Floyd & Schuster, 1990; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006; Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Neves, 1979; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
 ME (Ross, 1941; Procter, 1946; Blicke & Morse, 1966; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Huryn & Harris, 2000);  
 MI (Ross, 1944; Ellis, 1962; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018; Houghton, 2022; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Nimmo, 1986; Armitage & Hamilton, 1990; MacLean, 1995; Moulton & Stewart, 1996; Houghton, Holzenthal, Monson, & MacLean, 2001; Zhou et al., 2011; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Ross, 1944; Nimmo, 1986; Armitage & Hamilton, 1990; Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Lago, Holzenthal, & Harris, 1982; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
 NB (Nimmo, 1986; Moulton & Stewart, 1996; Zhou et al., 2011);  
 NC (Morse, Hamilton, & Hoffman, 1989; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; DeWalt, Jacobus, & McCafferty, 2007; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NF (Marshall & Larson, 1982; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
 NH (Morse & Blicke, 1953; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
 NJ (Smith, 1900; Smith, 1910; Nimmo, 1986; Moulton & Stewart, 1996; Zhou et al., 2011);  
 NS (Nimmo, 1986; Moulton & Stewart, 1996);  
 NY (Banks, 1892; Ross, 1944; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Marshall, 1939; Ross, 1944; Petersen & Foote, 1980; Huryn & Foote, 1983; Nimmo, 1986; Usis & MacLean, 1986; Garono & MacLean, 1988; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Bowles & Mathis, 1992; Moulton & Stewart, 1996);  
 ON (Ross, 1944; Nimmo, 1986; Harper, 1989; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
 PA (Swegman, Walker, & Sykora, 1981; Nimmo, 1986; Armitage & Hamilton, 1990; Masteller & Flint, 1992; Moulton & Stewart, 1996);  
 QC (Ross, 1944; Robert, 1958; Roy & Harper, 1975; Williams & Williams, 1979; Roy & Harper, 1979; Nimmo, 1986; Harper, 1989; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
 SC (Nimmo, 1986; Morse, Hamilton, & Hoffman, 1989; Floyd & Morse, 1993; Moulton & Stewart, 1996; Floyd, Morse, & Harris, 1997; Zhou et al., 2011);

TN (Ross, 1944; Edwards, 1966; Etnier & Schuster, 1979; Nimmo, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005; Etnier, Bauer, & Zirkle, 2006; DeWalt, Jacobus, & McCafferty, 2007);

VA (Parker & Voshell, 1981; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004; Zhou et al., 2011; Flint, 2011);

VT (Wimmer, 1979; Moulton & Stewart, 1996);

WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Nimmo, 1986; Armitage & Hamilton, 1990; Hilsenhoff, 1995; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

WV (Tarter, 1990; Moulton & Stewart, 1996; Tarter & Floyd, 2016).

*Polycentropus denningi* Smith, 1962, ID;  
 male & female genitalia (Nimmo, 1986; Armitage & Hamilton, 1990);  
 photo of larval head (Orfinger, Morse, & Hix, 2022);  
 larval head (Orfinger, Hix, Gerth, & Rasmussen, 2022);

BC (Nimmo & Scudder, 1983; Nimmo, 1986;  
 Armitage & Hamilton, 1990; Orfinger, Hix, Gerth, & Rasmussen, 2022);

CA (Orfinger, Hix, Gerth, & Rasmussen, 2022);

ID (Smith, 1962; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Orfinger, Hix, Gerth, & Rasmussen, 2022);

MT (Roemhild, 1982; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Orfinger, Hix, Gerth, & Rasmussen, 2022);

OR (Anderson, 1976; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Orfinger, Hix, Gerth, & Rasmussen, 2022);

WA (Anderson & Wisseman, 1987; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005;  
 Blinn & Ruiter, 2013; Orfinger, Hix, Gerth, & Rasmussen, 2022).

*Polycentropus dinkinsorum* Orfinger & Etnier, 2020, NC;  
 male genitalia (Orfinger & Etnier, 2020);  
 NC (Orfinger & Etnier, 2020);  
 TN (Orfinger & Etnier, 2020);  
 WV (Orfinger & Etnier, 2020).

*Polycentropus elarus* Ross, 1944, ON;  
 male & female genitalia (Nimmo, 1986; Armitage & Hamilton, 1990);  
 photo of larval head (Orfinger, Morse, & Hix, 2022);

AL (Harris et al, 1983; Harris, 1987; Lago & Harris, 1987; Harris, 1990;  
 Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991);

FL (Orfinger & Moulton, 2021);

GA (Frazer, Harris, & Ward, 1991);

IN (Waltz & McCafferty, 1983; Armitage & Hamilton, 1990;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

KY (Resh, 1975; Nimmo, 1986; Floyd & Schuster, 1990; Armitage & Hamilton, 1990;  
 Etnier, Bauer, & Zirkle, 2006; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MA (Neves, 1979; Nimmo, 1986; Armitage & Hamilton, 1990);

NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);

NH (Morse & Blicke, 1957; Nimmo, 1986; Armitage & Hamilton, 1990);

NY (Ross, 1944; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Myers, Kondratieff, Mihuc, & Ruiter, 2011);

OH (Huryn & Foote, 1981; Huryn & Foote, 1983; Armitage & Hamilton, 1990;  
 Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

ON (Ross, 1944; Nimmo, 1986; Armitage & Hamilton, 1990);

PA (Masteller & Flint, 1979; Masteller & Flint, 1984; Nimmo, 1986; Armitage & Hamilton, 1990;  
 Masteller & Flint, 1992; Hoenig, Trevelline, Nuttle, & Porter, 2021);

QC (Roy & Harper, 1975; Roy & Harper, 1979; Nimmo, 1986; Armitage & Hamilton, 1990);



- TN (Etnier, 1973; Nimmo, 1986; Armitage & Hamilton, 1990; Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Parker & Voshell, 1981; Armitage & Hamilton, 1990; Flint, Hoffman, & Parker, 2004);  
 WV (Tarter & Floyd, 2016).
- Polycentropus floridensis* Lago & Harris, 1983, FL;  
 male genitalia (Armitage & Hamilton, 1990);  
 AL (Lago & Harris, 1983; Lago & Harris, 1987; Harris, 1990; Armitage & Hamilton, 1990; Harris, O'Neil, & Lago, 1991);  
 FL (Lago & Harris, 1983; Harris, Lago, & Scheiring, 1982; Gordon, 1984; Armitage & Hamilton, 1990; Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004).
- Polycentropus gertschi* Denning, 1950; AZ;  
 male genitalia (Armitage & Hamilton, 1990);  
 female genitalia (Ruiter & Blinn, 2009);  
 photo of larval head (Orfinger, Morse, & Hix, 2022);  
 larval head (Orfinger, Hix, Gerth, & Rasmussen, 2022);  
 AZ (Denning, 1950; Armitage & Hamilton, 1990; Ruiter, 1996; Blinn & Ruiter, 2006; Orfinger, Hix, Gerth, & Rasmussen, 2022);  
 CO (Herrmann, Ruiter, & Unzicker, 1986; Orfinger, Hix, Gerth, & Rasmussen, 2022);  
 NM (Orfinger, Hix, Gerth, & Rasmussen, 2022);  
 TX (Moulton & Stewart, 1997; Orfinger, Hix, Gerth, & Rasmussen, 2022).
- Polycentropus halidus* Milne, 1936, NM;  
 male genitalia (Denning, 1948);  
 male & female genitalia (Nimmo, 1986; Armitage & Hamilton, 1990);  
 photo of larval head (Orfinger, Morse, & Hix, 2022);  
 larval head (Orfinger, Hix, Gerth, & Rasmussen, 2022);  
 AK (Ellis, 1978; Vineyard, 1982; Armitage & Hamilton, 1990; Orfinger, Hix, Gerth, & Rasmussen, 2022);  
 AZ (Denning, 1948; Denning & Sykora, 1966; Nimmo, 1986; Erman, 1989; Armitage & Hamilton, 1990; Moulton, Stewart, & Young, 1994; Houghton, 2001; Blinn & Ruiter, 2006; Orfinger, Hix, Gerth, & Rasmussen, 2022);  
 BC (Nimmo & Scudder, 1978; Nimmo, 1986; Armitage & Hamilton, 1990; Orfinger, Hix, Gerth, & Rasmussen, 2022);  
 CA (Denning, 1948; Denning & Sykora, 1966; Resh & Sorg, 1978; Nimmo, 1986; McElravy & Resh, 1987; Erman, 1989; Armitage & Hamilton, 1990; Orfinger, Hix, Gerth, & Rasmussen, 2022; Resh & Mendez, 2022);  
 CO (Herrmann, Ruiter, & Unzicker, 1986; Ruse & Herrmann, 2000; Orfinger, Hix, Gerth, & Rasmussen, 2022);  
 MT (Roemhild, 1982; Nimmo, 1986; Jones & Resh, 1988; Armitage & Hamilton, 1990; Orfinger, Hix, Gerth, & Rasmussen, 2022);  
 NM (Milne, 1936; Denning & Sykora, 1966; Nimmo, 1986; Armitage & Hamilton, 1990; Orfinger, Hix, Gerth, & Rasmussen, 2022);  
 OR (Anderson, 1976, misidentification, Anderson & Hansen, 1987; Anderson, Cooper, & Denning, 1982; Anderson, Wisseman, & Courtney, 1984; Nimmo, 1986; Armitage & Hamilton, 1990; Orfinger, Hix, Gerth, & Rasmussen, 2022);  
 TX (Moulton & Stewart, 1997; Orfinger, Hix, Gerth, & Rasmussen, 2022);  
 UT (Baumann & Unzicker, 1981; Armitage & Hamilton, 1990; Orfinger, Hix, Gerth, & Rasmussen, 2022);  
 WA (Nimmo, 1986; Sherk, 1986; Anderson & Wisseman, 1987; Orfinger, Hix, Gerth, & Rasmussen, 2022);  
 WY (Ruiter & Lavigne, 1985; Nimmo, 1986; Orfinger, Hix, Gerth, & Rasmussen, 2022);  
 Mexico (Denning & Sykora, 1966; Flint, 1967; Nimmo, 1986; Armitage & Hamilton, 1990).
- Polycentropus maculatus* Banks, 1908, NF;  
 male & female genitalia (Ross, 1944; Nimmo, 1986; Armitage & Hamilton, 1990));

male genitalia (Marshall & Larson, 1982);  
 female genitalia (Hoffman & Morse, 1990);  
 photo of larval head (Orfinger, Morse, & Hix, 2022);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 CT (Nelson & Downs, 1995);  
 GA (Hoffman & Morse, 1990);  
 KY (Resh, 1975; Nimmo, 1986; Armitage & Hamilton, 1990;  
     Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Neves, 1979; Nimmo, 1986; Armitage & Hamilton, 1990);  
 ME (Blickle & Morse, 1966; Nimmo, 1986; Armitage & Hamilton, 1990);  
 NC (Nimmo, 1986; Huryn & Wallace, 1987; Huryn & Wallace, 1988;  
     Morse, Hamilton, & Hoffman, 1989; Hoffman & Morse, 1990;  
     Floyd, Morse, & Harris, 1997; DeWalt, Jacobus, & McCafferty, 2007;  
     Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NF (Banks, 1908; Marshall & Larson, 1982; Nimmo, 1986; Armitage & Hamilton, 1990);  
 NH (Ross, 1944; Morse & Blickle, 1957; Nimmo, 1986; Armitage & Hamilton, 1990);  
 NS (Nimmo, 1986);  
 NY (Sibley, 1926; Nimmo, 1986; Armitage & Hamilton, 1990;  
     Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (McElravy, Arsuffi, & Foote, 1977; Nimmo, 1986; Garono & MacLean, 1988;  
     Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Sprules, 1947);  
 PA (Masteller & Flint, 1979; Swegman, Walker, & Sykora, 1981; Nimmo, 1986;  
     Armitage & Hamilton, 1990; Masteller & Flint, 1992);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979; Williams & Williams, 1979; Nimmo, 1986;  
     Armitage & Hamilton, 1990);  
 SC (Nimmo, 1986; Morse, Hamilton, & Hoffman, 1989; Hoffman & Morse, 1990;  
     Floyd & Morse, 1993; Floyd, Morse, & Harris, 1997);  
 TN (Ross, 1944; Etnier & Schuster, 1979; Nimmo, 1986; Armitage & Hamilton, 1990;  
     Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005; Zhou et al., 2011);  
 VA (Parker & Voshell, 1981; Armitage & Hamilton, 1990; Flint, Hoffman, & Parker, 2004);  
 VT (Wimmer, 1979);  
 WV (Tarter & Hill, 1979; Nimmo, 1986; Tarter, 1990; Armitage & Hamilton, 1990;  
     Griffith & Perry, 1992; Griffith, Barrows, & Perry, 1998; Tarter & Floyd, 2016).  
 Polycentropus neiswanderi Ross, 1947, OH;  
     male & female genitalia (Nimmo, 1986; Armitage & Hamilton, 1990);  
     IL (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
     KY (Houp, 1999; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
         Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
     OH (Ross, 1947; Huryn & Foote, 1983; Nimmo, 1986; Armitage & Hamilton, 1990;  
         Armitage et al., 2011;  
         Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).  
 Polycentropus pentus Ross, 1941, ON;  
     male & female genitalia (Ross, 1944; Nimmo, 1986; Armitage & Hamilton, 1990);  
     male genitalia (Houghton, 2012);  
     photo of larval head (Orfinger, Morse, & Hix, 2022);  
     AL (Lago & Harris, 1987; Harris, 1987; Harris, 1990; Harris, O'Neil, & Lago, 1991);  
     CT (Nelson, 1987; Nelson & Downs, 1995);  
     IL (Ross, 1944; Nimmo, 1986; Armitage & Hamilton, 1990;  
         Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
     KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
         Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
     MB (Cobb, Flannagan, & Friesen, 1984);

- ME (Blickle & Morse, 1966; Etnier, 1973; Nimmo, 1986; Armitage & Hamilton, 1990);
- MI (Leonard & Leonard, 1949; Ellis, 1962; Nimmo, 1986; Armitage & Hamilton, 1990;  
Houghton, Brandin, & Brakel, 2011; Houghton, 2016;  
Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
Houghton & Lardner, 2020; Houghton, 2022;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MN (Etnier, 1965; Nimmo, 1986; Armitage & Hamilton, 1990; Monson, 1997;  
Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- NF (Orfinger & Etnier, 2020);
- NH (Ross, 1941; Nimmo, 1986; Armitage & Hamilton, 1990);
- NJ (Nimmo, 1986);
- NS (Nimmo, 1986);
- NY (Harris, O'Neil, & Lago, 1991; Myers, Kondratieff, Mihuc, & Ruitter, 2011);
- OH (McElravy, Arsuffi, & Foote, 1977; Huryin & Foote, 1983; Nimmo, 1986;  
Usis & MacLean, 1986; Garono & MacLean, 1988; Armitage & Hamilton, 1990;  
Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- ON (Ross, 1941; Nimmo, 1986; Harper, 1989; Armitage & Hamilton, 1990);
- PA (Masteller & Flint, 1979; Nimmo, 1986; Armitage & Hamilton, 1990;  
Masteller & Flint, 1992);
- QC (Robert, 1958; Roy & Harper, 1975; Roy & Harper, 1979; Nimmo, 1986; Harper, 1989;  
Armitage & Hamilton, 1990);
- TN (Etnier, 1973; Etnier & Schuster, 1979; Nimmo, 1986; Armitage & Hamilton, 1990;  
Etnier, Baxter, Fraley, & Parker, 1998);
- VA (Flint, Hoffman, & Parker, 2004);
- VT (Wimmer, 1979);
- WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
Steven & Hilsenhoff, 1984; Nimmo, 1986; Armitage & Hamilton, 1990;  
Hilsenhoff, 1995;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- WV (Tarter & Hill, 1979; Nimmo, 1986; Tarter, 1990; Armitage & Hamilton, 1990;  
Tarter & Floyd, 2016);
- WY (Ruitter & Lavigne, 1985).
- Polycentropus picana* Ross, 1947, Mexico;  
male genitalia (Armitage & Hamilton, 1990);
- TX (Edwards, 1973; Armitage & Hamilton, 1990; Moulton & Stewart, 1997;  
Bowles, Tiemann, & Easley, 2007; Orfinger, Hix, Gerth, & Rasmussen, 2022);  
Mexico (Ross, 1947; Armitage & Hamilton, 1990).
- Polycentropus pixi* Ross, 1944, NH;  
male genitalia (Nimmo, 1986);  
male & female genitalia (Armitage & Hamilton, 1990);
- MA (Neves, 1979; Nimmo, 1986; Armitage & Hamilton, 1990);
- NH (Ross, 1944; Nimmo, 1986; Armitage & Hamilton, 1990);
- NY (Ross, 1944; Nimmo, 1986; Armitage & Hamilton, 1990;  
Myers, Kondratieff, Mihuc, & Ruitter, 2011);
- OH (Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- PA (Swegman, Walker, & Sykora, 1981; Masteller & Flint, 1992);
- VA (Flint, Hoffman, & Parker, 2004);
- VT (Wimmer, 1979).
- Polycentropus rickeri* Yamamoto, 1966, TN;  
male & female genitalia (Armitage & Hamilton, 1990);  
photo of larval head (Orfinger, Morse, & Hix, 2022);
- AL (Lago & Harris, 1987; Harris, 1990; Harris, O'Neil, & Lago, 1991; Morse et al, 1997);

- KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);
- PA (Masteller & Flint, 1992);
- TN (Yamamoto, 1966; Armitage & Hamilton, 1990; Morse et al, 1997;  
Etnier, Baxter, Fraley, & Parker, 1998; Zhou et al., 2011);
- VA (Parker & Voshell, 1981; Armitage & Hamilton, 1990; Morse et al, 1997;  
Flint, Hoffman, & Parker, 2004; Flint, 2017);
- WV (Tarter & Floyd, 2016).
- Polycentropus stephani* Bowles, Mathis, & Hamilton, 1993, AR;  
AR (Bowles, Mathis, & Hamilton, 1993; Moulton & Stewart, 1996; Etnier, 2010).
- Polycentropus thaxtoni* Hamilton & Holzenthal, 1986, GA;  
male genitalia (Armitage & Hamilton, 1990);  
AL (Orfinger & Moulton, 2021);  
GA (Hamilton & Holzenthal, 1986; Armitage & Hamilton, 1990).
- Polycentropus variegatus* Banks, 1900, WA;  
male genitalia (Denning, 1948);  
larval gills (Schmid, 1980);  
male & female genitalia (Nimmo, 1986; Armitage & Hamilton, 1990);  
photo of larval head (Orfinger, Morse, & Hix, 2022);  
photo of larva, larval head (Orfinger, Hix, Gerth, & Rasmussen, 2022);  
AB (Nimmo, 1986; Orfinger, Hix, Gerth, & Rasmussen, 2022);  
AK (Wevers & Wisseman, 1987; Orfinger, Hix, Gerth, & Rasmussen, 2022);  
AZ (Nimmo, 1986; Blinn & Ruiter, 2006; Orfinger, Hix, Gerth, & Rasmussen, 2022);  
BC (Ross, 1944; Schmid & Guppy, 1952; Ross & Spencer, 1952;  
Nimmo & Scudder, 1978; Nimmo & Scudder, 1983; Nimmo, 1986;  
Armitage & Hamilton, 1990; Orfinger, Hix, Gerth, & Rasmussen, 2022);  
CA (Denning, 1948; Denning, 1956; Nimmo, 1986; Armitage & Hamilton, 1990;  
Orfinger, Hix, Gerth, & Rasmussen, 2022; Resh & Mendez, 2022);  
CO (Herrmann, Ruiter, & Unzicker, 1986; Orfinger, Hix, Gerth, & Rasmussen, 2022);  
MT (Roemhild, 1982; Armitage & Hamilton, 1990; Orfinger, Hix, Gerth, & Rasmussen, 2022);  
OR (Anderson, 1976; Nimmo, 1986; Anderson & Hansen, 1987; Wevers & Wisseman, 1987;  
Armitage & Hamilton, 1990; Orfinger, Hix, Gerth, & Rasmussen, 2022);  
UT (Baumann & Unzicker, 1981; Armitage & Hamilton, 1990;  
Orfinger, Hix, Gerth, & Rasmussen, 2022);  
WA (Banks, 1900; Ross, 1944; Nimmo, 1986;  
Armitage & Hamilton, 1990; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005;  
Blinn & Ruiter, 2013; Orfinger, Hix, Gerth, & Rasmussen, 2022);  
WY (Denning, 1948; Ruiter & Lavigne, 1985; Nimmo, 1986; Armitage & Hamilton, 1990;  
Orfinger, Hix, Gerth, & Rasmussen, 2022).
- Polycentropus vernus* Hamilton, Harris, & Lago, 1990, AL;  
AL (Harris, O'Neil, & Lago, 1991).
- Polyplectropus charlesi* (Ross, 1941), *Polycentropus*, TX;  
larva (Flint, 1964; Flint, 1977; Wiggins, 1977, probably this species);  
male genitalia (Armitage & Hamilton, 1990);  
female genitalia (Ruiter & Blinn, 2009);  
male genitalia & wings (Chamorro & Holzenthal, 2010);  
AZ (Blinn & Ruiter, 2006; Chamorro & Holzenthal, 2010);  
TX (Ross, 1941; Wiggins, 1977; Bueno-Soria, 1990;  
Armitage & Hamilton, 1990; Moulton & Stewart, 1997;  
Bowles, Tiemann, & Easley, 2007; Chamorro & Holzenthal, 2010;  
Chamorro & Holzenthal, 2011);  
Mexico (Bueno-Soria & Flint, 1978; Armitage & Hamilton, 1990).
- Polyplectropus misolja* Bueno, 1990, Mexico;

- male genitalia & wings (Chamorro & Holzenthal, 2010);  
TX (Moulton & Stewart, 1997; Chamorro & Holzenthal, 2010).
- Polyplectropus santiago* Ross, 1947, Mexico;  
*Polycentropus proditus* Edwards, 1973, TX (Moulton, 1996);  
male genitalia (Armitage & Hamilton, 1990; Chamorro & Holzenthal, 2010);  
TX (Edwards, 1973; Wiggins, 1977; Armitage & Hamilton, 1990; Moulton & Stewart, 1997;  
Bowles, Tiemann, & Easley, 2007; Chamorro & Holzenthal, 2010; Chamorro &  
Holzenthal, 2011);  
Mexico (Ross, 1947).
- Psychomyiidae (4 genera, 17 species) —Net-tube Caddisflies
- Lype diversa* (Banks, 1914), *Psychomyia*, NC;  
*Lype griselda* Betten, 1934, NY (Milne, 1936);  
larva, retreat (Wiggins, 1977);  
wings, male & female genitalia (Schmid, 1980);  
male & female genitalia (Schmid, 1983; Armitage & Hamilton, 1990; Houghton, 2012);  
NB, QC, ON, AB, ME to MI, south to FL (Schmid, 1983);  
NC/SC (Unzicker Resh, & Morse, 1982);  
eastern North America to WI, ON, QC, and ME (Wiggins, 1977);  
AB (Schmid, 1983; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
AL (Harris, Lago, & O'Neil, 1984; Harris, 1987; Lago & Harris, 1987;  
Armitage & Hamilton, 1990; Frazer, Harris, & Ward, 1991;  
Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Hicks & Haynes, 2000a;  
Harris & O'Neil, 2015; Denson, Rasmussen, & Harris, 2016);  
AR (Unzicker, Aggus, & Warren, 1970; Bowles & Mathis, 1989; Armitage & Hamilton, 1990;  
Moulton & Stewart, 1996; Etnier, 2010; Bowles, 2020);  
CT (Bilger, 1986; Nelson, 1987; Downs & Godwin, 1987; Nelson & Downs, 1995;  
Moulton & Stewart, 1996);  
DE (Lake, 1984; Moulton & Stewart, 1996);  
FL (Ross, 1944; Harris, Lago, & Scheiring, 1982; Schmid, 1983; Gordon, 1984;  
Armitage & Hamilton, 1990; Pescador, Rasmussen, & Harris, 1995, 2004;  
Mattson, Epler, & Hein, 1995; Moulton & Stewart, 1996; Rasmussen, 2004;  
Zhou et al., 2011; Denson, Rasmussen, & Harris, 2016;  
Zhou, Frandsen, Holzenthal et al., 2016);  
GA (Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
IL (Ross, 1944; Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
IN (Waltz & McCafferty, 1983; Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
KY (Resh, 1975; Floyd & Schuster, 1990; Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
Etnier, Bauer, & Zirkle, 2006; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
LA (Lago, Holzenthal, & Harris, 1982; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
MA (Neves, 1979; Moulton & Stewart, 1996; Whitmore 2008);  
ME (Blickle & Morse, 1966; Wiggins, 1977; Mingo & Gibbs, 1980; Schmid, 1983; Bilger, 1986;  
Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Huryn & Harris, 2000);  
MI (Ross, 1944; Leonard & Leonard, 1949; Ellis, 1962; Schmid, 1983;  
Armitage & Hamilton, 1990; Davis, Hudson, & Armitage, 1991;  
Moulton & Stewart, 1996; Houghton, Brandin, & Brakel, 2011;  
Wright, Pytel, & Houghton, 2013; Houghton, 2015; Houghton, 2016;  
Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
Houghton, 2022;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MN (Lager, Johnson, Williams, & McCullough, 1979; Moulton & Stewart, 1996; Monson, 1997);

Houghton, Holzenthal, Monson, & MacLean, 2001; Zhou et al., 2011; Houghton, 2012; Zhou, Frandsen, Holzenthal et al., 2016; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007; Bowles, 2020; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

MS (Lago, Holzenthal, & Harris, 1982; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);

NB (Schmid, 1983; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Zhou et al., 2011; Zhou, Frandsen, Holzenthal et al., 2016);

NC (Banks, 1914; Ross, 1944; Wray, 1950; Woodall & Wallace, 1972; Penrose, Lenat, & Eagleson, 1982; Lenat, 1983; Armitage & Tennesen, 1984; Huryh & Wallace, 1987; Huryh & Wallace, 1988; Morse, Hamilton, & Hoffman, 1989; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Floyd, Morse, & Harris, 1997; DeWalt, Jacobus, & McCafferty, 2007; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Zhou, Frandsen, Holzenthal et al., 2016);

NH (Ross, 1944; Morse & Blickle, 1953; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);

NJ (Zhou et al., 2011; Zhou, Frandsen, Holzenthal et al., 2016; Mendez, Spagna, Holzenthal, & Houghton, 2019);

NY (Betten, 1934; Ross, 1944; Bilger, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Zhou et al., 2011; Myers, Kondratieff, Mihuc, & Ruiter, 2011; Zhou, Frandsen, Holzenthal et al., 2016);

OH (Marshall, 1939; Ross, 1944; Petersen & Foote, 1980; Huryh & Foote, 1983; Usis & MacLean, 1986; Garono & MacLean, 1988; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

ON (Ross, 1944; Sprules, 1947; Wiggins, 1977; Schmid, 1980; Schmid, 1983; Harper, 1989; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);

PA (Masteller & Flint, 1979; Masteller & Flint, 1984; Swegman, Walker, & Sykora, 1981; Armitage & Hamilton, 1990; Masteller & Flint, 1992; Moulton & Stewart, 1996; Hoenig, Trevelline, Nuttle, & Porter, 2021);

PE (Armitage & Hamilton, 1990; Dobrin & Giberson, 2003);

QC (Robert, 1958; Roy & Harper, 1975; Wiggins, 1977; Williams & Williams, 1979; Roy & Harper, 1979; Schmid, 1980; Schmid, 1983; Harper, 1989; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);

SC (Wiggins, 1977; Morse, Chapin, Herlong, & Harvey, 1980; Morse, Hamilton, & Hoffman, 1989; Armitage & Hamilton, 1990; Floyd & Morse, 1993; Moulton & Stewart, 1996; Floyd, Morse, & Harris, 1997);

TN (Ross, 1944; Edwards, 1966; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005; Etnier, Bauer, & Zirkle, 2006; DeWalt, Jacobus, & McCafferty, 2007; Zhou, Frandsen, Holzenthal et al., 2016);

TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997);

VA (Ross, 1944; Parker & Voshell, 1981; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Flint, Hoffman, & Parker, 2004; Zhou et al., 2011; Flint, 2011; Zhou, Frandsen, Holzenthal et al., 2016);

VT (Ross, 1944; Wimmer, 1979; Bilger, 1986; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);

WI (Ross, 1944; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Wiggins, 1977; Steven & Hilsenhoff, 1984; Armitage & Hamilton, 1990; Hilsenhoff, 1995; Hilsenhoff, 1996; Moulton & Stewart, 1996; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

WV (Tarter, 1990; Griffith & Perry, 1992; Moulton & Stewart, 1996; Tarter & Floyd, 2016).

Paduniella nearctica Flint, 1967, AR;  
male genitalia (Armitage & Hamilton, 1990);

female genitalia (Bowles & Allen, 1988);  
AR (Flint, 1967; Unzicker, Aggus, & Warren, 1970; Bowles & Allen, 1988;  
Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
Bowles, Cheri, Usrey, & Williams, 2020);  
MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Etnier, 2010;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).

*Psychomyia flavida* Hagen, 1861, Canada;  
*Psychomyia moesta* Banks, 1907, CO (Milne, 1936);  
*Psychomyia pulchella* Banks, 1899, CO (Milne, 1936);  
male & female genitalia (Ross, 1944; Armitage & Hamilton, 1990; Houghton, 2012);  
larval frontoclypeus, mandibles (Flint, 1964);  
female genitalia (Unzicker, 1968);  
adult head, thorax (Wimmer, 1979);  
maxillary palp, wings, male & female genitalia (Schmid, 1980; Schmid, 1983);  
Canada (Hagen, 1861);  
MD/VA (Flint & Butler, 1983);  
NB to BC south to TN & CO (Schmid, 1983);  
NC/SC (Unzicker Resh, & Morse, 1982);  
widespread east of the Rocky Mountains (Schuster & Hamilton, 1978);  
AB (Schmid, 1983; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Zhou et al., 2011);  
AL (Harris, Lago, & O'Neil, 1984; Harris, 1987; Lago & Harris, 1987;  
Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996;  
Hicks & Haynes, 2000a);  
AR (Ross, 1944; Unzicker, Aggus, & Warren, 1970; Bowles & Mathis, 1989;  
Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Chamorro & Holzenthal, 2011;  
Bowles, 2020; Bowles, Cheri, Usrey, & Williams, 2020);  
AZ (Ruiter, 1999; Houghton, 2001; Blinn & Ruiter, 2006; Zhou et al., 2011);  
BC (Schmid, 1983; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
CA (Denning, 1956; Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
Resh & Mendez, 2022);  
CO (Banks, 1899; Banks, 1907; Dodds & Hisaw, 1925; Ross, 1944; Ward, 1975;  
Stanford & Ward, 1981; Schmid, 1983; Herrmann, Ruiter, & Unzicker, 1986;  
Ward, 1987; Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
Ruse & Herrmann, 2000; Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
CT (Downs & Godwin, 1987; Nelson & Downs, 1995; Moulton & Stewart, 1996);  
DC (Hagen, 1861; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
DE (Lake, 1984; Moulton & Stewart, 1996);  
FL (Gordon, 1984; Pescador, Rasmussen, & Harris, 1995, 2004; Moulton & Stewart, 1996;  
Denson, Rasmussen, & Harris, 2016);  
IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
ID (Ross, 1944; Newell & Minshall, 1977; Armitage & Hamilton, 1990;  
Moulton & Stewart, 1996);  
IL (Ross, 1944; Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
IN (Ross, 1944; Waltz & McCafferty, 1983; Armitage & Hamilton, 1990;  
Moulton & Stewart, 1996;  
DeWalt, South, Robertson, Marburger, Smith, & Brinson, 2016;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
KS (Schuster & Hamilton, 1978; Hamilton, Schuster, & DuBois, 1983;  
Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
KY (Ross, 1944; Resh, 1975; Haag, Resh, & Neff, 1984; Floyd & Schuster, 1990;  
Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Etnier, Bauer, & Zirkle, 2006;  
Zhou et al., 2011; Floyd, Moulton, Schuster, Parker, & Robinson, 2012);

Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Whitmore 2008);  
 MB (Flannagan, 1978; Lehmkuhl & Kerst, 1979; Flannagan & Flannagan, 1982;  
 Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
 Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Zhou et al., 2011;  
 Ruiter, Boyle, & Zhou, 2013);  
 MD (Flint & Butler, 1983; Moulton & Stewart, 1996; Flint, 2008);  
 ME (Blickle & Morse, 1966; Mingo & Gibbs, 1979; Bilger, 1986; Armitage & Hamilton, 1990;  
 Moulton & Stewart, 1996; Huryn & Harris, 2000);  
 MI (Ross, 1944; Leonard & Leonard, 1949; Ellis, 1962; Armitage & Hamilton, 1990;  
 Davis, Hudson, & Armitage, 1991; Moulton & Stewart, 1996; Ruiter, 2010;  
 Houghton, Brandin, & Brakel, 2011; Wright, Pytel, & Houghton, 2013;  
 DeWalt & South, 2015; Houghton, 2016;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1965; Lager, Johnson, Williams, & McCullough, 1979; Armitage & Hamilton, 1990;  
 MacLean, 1995; Moulton & Stewart, 1996; Monson, 1997;  
 Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton & Holzenthal, 2010;  
 Chamorro & Holzenthal, 2011; Zhou et al., 2011; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Ross, 1944; Armitage & Hamilton, 1990; Mathis & Bowles, 1992; Moulton & Stewart, 1996;  
 Ferro & Sites, 2007; Bowles, 2020;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Ross, 1944; Newell, 1970; Newell & Potter, 1973; Roemhild, 1982;  
 Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Zhou et al., 2011;  
 Stagliano, 2020);  
 NB (Schmid, 1983; Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Zhou et al., 2011);  
 NC (Brimley, 1938; Ross, 1944; Morse, Hamilton, & Hoffman, 1989;  
 Armitage & Hamilton, 1990; Moulton & Stewart, 1996; Floyd, Morse, & Harris, 1997;  
 DeWalt, Jacobus, & McCafferty, 2007;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 ND (Harris, Lago, & Carlson, 1980; Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NH (Ross, 1944; Morse & Blickle, 1953; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
 NJ (Smith, 1900; Smith, 1910; Moulton & Stewart, 1996);  
 NS (Schmid, 1983; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
 NY (Sibley, 1926; Ross, 1944; Bilger, 1986; Armitage & Hamilton, 1990;  
 Moulton & Stewart, 1996; Myers, Kondratieff, Mihuc, & Ruiter, 2011; Tozer, 2018);  
 OH (Marshall, 1939; Ross, 1944; Huryn & Foote, 1983; Usis & MacLean, 1986;  
 Garono & MacLean, 1988; Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
 Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Ross, 1944; Armitage & Hamilton, 1990; Bowles & Mathis, 1992;  
 Moulton & Stewart, 1996);  
 ON (Ross, 1944; Sprules, 1947; Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
 Zhou et al., 2011);  
 OR (Anderson, 1976; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
 PA (Ross, 1944; Swegman, Walker, & Sykora, 1981; Armitage & Hamilton, 1990;  
 Masteller & Flint, 1992; Moulton & Stewart, 1996);  
 QC (Robert, 1958; Corbet, Schmid, & Augustin, 1966; Corbet, 1966; Roy & Harper, 1975;  
 Roy & Harper, 1979; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
 SC (Flint, 1964; Morse, Hamilton, & Hoffman, 1989; Floyd & Morse, 1993;  
 Moulton & Stewart, 1996; Floyd, Morse, & Harris, 1997);  
 SD (Zhou et al., 2011);



Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 SK (Milne, 1943; Ross, 1944; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
 TN (Ross, 1944; Edwards, 1966; Etnier & Schuster, 1979; Schmid, 1983;  
 Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
 Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005;  
 Etnier, Bauer, & Zirkle, 2006; DeWalt, Jacobus, & McCafferty, 2007; Zhou et al., 2011);  
 UT (Baumann & Unzicker, 1981; Armitage & Hamilton, 1990; Moulton & Stewart, 1996);  
 VA (Parker & Voshell, 1981; Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
 Flint, Hoffman, & Parker, 2004; Zhou et al., 2011);  
 VT (Wimmer, 1979; Bilger, 1986; Moulton & Stewart, 1996);  
 WA (Newell, Ruiter, & Strenge, 2001; Zack, Ruiter, Strenge, & Landolt, 2006;  
 Blinn & Ruiter, 2013);  
 WI (Ross, 1944; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
 Shapas & Hilsenhoff, 1976; Steven & Hilsenhoff, 1984; Armitage & Hamilton, 1990;  
 Hilsenhoff, 1995; Moulton & Stewart, 1996; Houghton & Lardner, 2020;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Ross, 1944; Tarter, 1990; Armitage & Hamilton, 1990; Moulton & Stewart, 1996;  
 Tarter & Floyd, 2016);  
 WY (Ross, 1944; Ruiter & Lavigne, 1985; Armitage & Hamilton, 1990;  
 Moulton & Stewart, 1996);  
 Siberia, Mongolia (Schmid, 1965; Schmid, 1983; Wiggins, 1977; Moulton & Stewart, 1996).

*Psychomyia lumina* (Ross, 1938), *Psychomyiella*, OR;  
 larva, retreat (Wiggins, 1977, probably this species);  
 wings, male & female genitalia (Schmid, 1983;  
 Armitage & Hamilton, 1990);  
 CA to WA & ID (Schmid, 1983);  
 CA (Schmid 1983; Armitage & Hamilton, 1990; Resh & Mendez, 2022);  
 ID (Schmid, 1983; Armitage & Hamilton, 1990);  
 OR (Ross, 1938; Ross, 1944; Anderson & Wold, 1972; Anderson, 1976;  
 Wiggins, 1977; Anderson, Cooper, & Denning, 1982;  
 Anderson, Wisseman, & Courtney, 1984;  
 Anderson & Hansen, 1987; Armitage & Hamilton, 1990);  
 WA (Schmid, 1983; Armitage & Hamilton, 1990).

*Psychomyia nomada* (Ross, 1938), *Psychomyiella*, NC;  
 larva (Flint, 1964);  
 wings, male & female genitalia (Schmid, 1983;  
 Armitage & Hamilton, 1990);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Lago & Harris, 1987; Harris, 1990;  
 Harris, O'Neil, & Lago, 1991);  
 MA (Neves, 1979; Armitage & Hamilton, 1990);  
 ME (Blickle & Morse, 1966; Mingo & Gibbs, 1979; Bilger, 1986;  
 Armitage & Hamilton, 1990);  
 NC (Ross, 1938; Wray, 1950; Schmid, 1983; Armitage & Hamilton, 1990;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 OH (Tkac, 1972, doubtful record according to Armitage et al., 2011)  
 OR (Anderson, 1976; Schmid, 1983; Armitage & Hamilton, 1990);  
 PA (Masteller & Flint, 1992);  
 QC (Schmid, 1980; Schmid, 1983; Armitage & Hamilton, 1990);  
 SC (Zhou et al., 2011);  
 TN (Edwards, 1966; Etnier & Schuster, 1979;  
 Armitage & Hamilton, 1990; Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Flint, 1964; Parker & Voshell, 1981; Schmid, 1983; Armitage & Hamilton, 1990;  
 Zhou et al., 2011).

- Tinodes belisus* Denning, 1950, OR;  
 male genitalia (Armitage & Hamilton, 1990);  
 CA (Denning, 1950; Denning, 1956; Armitage & Hamilton, 1990; Resh & Mendez, 2022);  
 OR (Denning, 1950; Anderson, 1976; Armitage & Hamilton, 1990).
- Tinodes cascadius* Denning, 1956, OR;  
 male genitalia (Armitage & Hamilton, 1990);  
 wings (Schmid, 1980);  
 CA (Schmid, 1968; Armitage & Hamilton, 1990; Resh & Mendez, 2022);  
 OR (Denning, 1956; (Schmid, 1968; Anderson, 1976; Anderson, Cooper, & Denning, 1982;  
 Armitage & Hamilton, 1990)  
 WA (Blinn & Ruitter, 2013).
- Tinodes consuetus* McLachlan, 1871, CA;  
 male genitalia (Kimmins & Denning, 1950;  
 Armitage & Hamilton, 1990);  
 widespread in western states (Denning, 1956);  
 AZ (Ross, 1941; Armitage & Hamilton, 1990; Blinn & Ruitter, 2006);  
 CA (McLachlan, 1871; McElravy & Resh, 1987; Armitage & Hamilton, 1990;  
 Resh & Mendez, 2022);  
 OR (Denning, 1973; Anderson, 1976; Armitage & Hamilton, 1990).
- Tinodes gabriella* Denning, 1973, CA;  
 male genitalia (Armitage & Hamilton, 1990);  
 CA (Denning, 1973; Armitage & Hamilton, 1990; Resh & Mendez, 2022).
- ? *Tinodes parvus* (Walker, 1852), ?Hydroptila, ON;  
 [cited as *Psychomyia* ?parva, type lost, by Ross, 1944];  
 ON (Walker, 1852).
- Tinodes parvulus* Denning, 1950, CA;  
 male & female genitalia (Armitage & Hamilton, 1990);  
 AZ (Denning, 1983; Armitage & Hamilton, 1990; Blinn & Ruitter, 2006);  
 CA (Denning, 1950; Armitage & Hamilton, 1990; Resh & Mendez, 2022).
- Tinodes powelli* Denning, 1964, Mexico;  
 larva, retreat (Wiggins, 1977, probably this species);  
 male genitalia (Armitage & Hamilton, 1990);  
 CA (Wiggins, 1977; Denning, 1983; Armitage & Hamilton, 1990; Resh & Mendez, 2022);  
 UT (Baumann & Unzicker, 1981; Denning, 1983;  
 Armitage & Hamilton, 1990);  
 Mexico (Denning, 1964).
- Tinodes provo* Ross & Merkley, 1950, UT;  
 male & female genitalia (Schmid, 1980; Armitage & Hamilton, 1990);  
 wings, male & female genitalia (Schmid, 1983);  
 AZ to ID (Schmid, 1983; Blinn & Ruitter, 2006);  
 AZ (Denning, 1950; Armitage & Hamilton, 1990);  
 CA (Denning, 1950; Armitage & Hamilton, 1990; Myers & Resh, 1999; Resh & Mendez, 2022);  
 ID (Denning, 1973; Newell & Minshall, 1977; Schmid, 1980; Armitage & Hamilton, 1990);  
 NV (Denning, 1983; Armitage & Hamilton, 1990; Ruitter, Baumann, & Flint, 2014);  
 UT (Ross & Merkley, 1950; Armitage & Hamilton, 1990);  
 Mexico (Denning, 1983).
- Tinodes schusteri* Denning, 1983, CA;  
 male genitalia (Armitage & Hamilton, 1990);  
 CA (Denning, 1983; Armitage & Hamilton, 1990; Resh & Mendez, 2022).
- Tinodes sigodanus* Ross & Merkley, 1950, CA  
 male & female genitalia (Denning, 1983; Armitage & Hamilton, 1990);  
 CA (Ross & Merkley, 1950; Denning, 1983; Armitage & Hamilton, 1990; Resh & Mendez, 2022).
- Tinodes siskiyou* Denning, 1951, OR;  
 male genitalia (Armitage & Hamilton, 1990);

- CA (Denning, 1983; McElravy & Resh, 1987; Armitage & Hamilton, 1990; Resh & Mendez, 2022);  
 OR (Denning, 1951; Anderson, 1976; Armitage & Hamilton, 1990).
- Tinodes twilus* Denning, 1975, CA;  
 male genitalia (Armitage & Hamilton, 1990);  
 CA (Denning, 1975; Armitage & Hamilton, 1990; Resh & Mendez, 2022).
- Tinodes usillus* Denning, 1966, CA;  
 male genitalia (Armitage & Hamilton, 1990);  
 CA (Denning, 1966; Armitage & Hamilton, 1990; Resh & Mendez, 2022).
- Rhyacophilidae (2 genera, 130 species) —Free-living Caddisflies
- Himalopsyche phryganea* (Ross, 1941), *Rhyacophila*, OR;  
 larva (Flint, 1961);  
 photo of larva (Anderson, 1976);  
 larva (Wiggins, 1977);  
 photos of larva (Hjalmarsson, Graf, Jähnig, Vitecek, & Pauls, 2018)  
 CA (Ross, 1941; Denning, 1956; Schmid & Botosaneanu, 1966; Wiggins, 1977; Resh & Sorg, 1978; Resh & Mendez, 2022);  
 OR (Ross, 1941; Schmid & Botosaneanu, 1966; Anderson, 1976; Wiggins, 1977; Anderson, Wisseman, & Courtney, 1984);  
 WA (Schmid & Botosaneanu, 1966; Wiggins, 1977; Anderson & Wisseman, 1987; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013).
- Rhyacophila accola* Flint, 1972, NC;  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 NC (Flint, 1972; Prather, Syrett, & Morse, 1997; Morse et al, 1997; Prather & Morse, 2001; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011).
- Rhyacophila acutiloba* Morse and Ross, 1971, NH;  
 larva (*Rhyacophila* species 2) (Flint, 1962; Neves, 1977);  
 female terminalia (Ruiter, 2000);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 MA (Flint, 1962; Neves, 1977; Neves, 1979; Bilger, 1986; Prather, Syrett, & Morse, 1997);  
 ME (Mingo & Gibbs, 1979; Bilger, 1986; Prather, Syrett, & Morse, 1997);  
 NB (Prather & Morse, 2001; Zhou et al., 2011);  
 NC (Flint, 1962; Penrose, Lenat, & Eagleson, 1982; Lenat, 1983; Armitage & Tennessen, 1984; Prather, Syrett, & Morse, 1997; Prather & Morse, 2001; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);  
 NH (Morse & Ross, 1971; Flint, 1962; Roback, 1975; Prather, Syrett, & Morse, 1997);  
 NY (Flint, 1962; Prather, Syrett, & Morse, 1997; Ruiter, 2000; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 SC (Manuel & Folsom, 1982; Prather, Syrett, & Morse, 1997; Zhou et al., 2011);  
 TN (Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Parker & Voshell, 1981; Prather, Syrett, & Morse, 1997; Flint, Hoffman, & Parker, 2004);  
 VT (Roback, 1975; Neves, 1977; Prather, Syrett, & Morse, 1997; Prather & Morse, 2001);  
 WV (Applin & Tarter, 1977; Prather, Syrett, & Morse, 1997; Tarter & Floyd, 2016).
- Rhyacophila alabama* Harris, 1991, AL;  
 AL (Harris, 1991; Harris, O'Neil, & Lago, 1991; Prather, Syrett, & Morse, 1997; Morse et al, 1997).
- Rhyacophila alberta* Banks, 1918, AB;  
 wings, male & female genitalia (Nimmo, 1971);  
 male & female genitalia (Schmid, 1981);

west Nearctic (Schmid, 1970);  
 AB (Banks, 1918; Nimmo, 1971; Schmid, 1981);  
 AK (Banks, 1919; Nimmo, 1971; Ellis, 1978; Schmid, 1981;  
 Vineyard, 1982);  
 BC (Nimmo, 1971; Nimmo & Scudder, 1978; Schmid, 1981);  
 CO (Banks, 1919; Dodds & Hisaw, 1925; Ross, 1950; Nimmo, 1971; Allan, 1975; Ward, 1981;  
 Schmid, 1981; Herrmann, Ruiters, & Unzicker, 1986;  
 DeWalt, Stewart, Moulton, & Kennedy, 1994; Ruiters, 1996;  
 Zuellig, Kondratieff, Ruiters, & Thorp, 2006;  
 Zuellig, Heinold, Kondratieff, & Ruiters, 2012);  
 ID (Newell & Minshall, 1977);  
 MT (Newell, 1970; Nimmo, 1971; Newell & Potter, 1973;  
 Schmid, 1981; Roemhild, 1982);  
 NM (Molles, 1982);  
 UT (Ross, 1950; Nimmo, 1971; Schmid, 1981;  
 Baumann & Unzicker, 1981);  
 WY (Denning, 1948; Ross, 1950; Nimmo, 1971; Schmid, 1981;  
 Ruiters & Lavigne, 1985);  
 YT (Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997).  
*Rhyacophila alexanderi* Denning, 1950, MT;  
 male genitalia (Schmid, 1981);  
 MT (Denning, 1950; Newell, 1970; Schmid, 1970;  
 Newell & Potter, 1973; Schmid, 1981; Roemhild, 1982).  
*Rhyacophila amabilis* Denning, 1965, CA;  
 male genitalia Peck & Smith, 1978);  
 CA (Denning, 1965; Schmid, 1970; Peck & Smith, 1978; Resh & Mendez, 2022).  
*Rhyacophila amicis* Ross, 1956, NC;  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 NC (Ross, 1956; Schmid, 1970; Penrose, Lenat, & Eagleson, 1982; Armitage & Tennessen, 1984;  
 Prather, Syrett, & Morse, 1997; Morse et al, 1997; Prather & Morse, 2001;  
 DeWalt, Jacobus, & McCafferty, 2007;  
 Lenat, Ruiters, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011)  
 TN (Etnier, Baxter, Fraley, & Parker, 1998).  
*Rhyacophila angelita* Banks, 1911, CA;  
*Rhyacophila bipartita* Banks, 1914 (Milne, 1936);  
 larva (Flint, 1962; Smith, 1968; Wold, 1974);  
 wings, male & female genitalia (Nimmo, 1971);  
 male & female genitalia (Schmid, 1981);  
 male genitalia (Houghton, 2012);  
 photos of larva, anal proleg (Ruiters, Boyle, & Zhou, 2013);  
 CA to CO to YT, Appalachians ? (Wold, 1974);  
 Canada (Banks, 1914);  
 east and west Nearctic (1970);  
 AB (Smith, 1968; Nimmo, 1971; Schmid, 1981);  
 AZ (Blinn & Ruiters, 2006);  
 BC (Denning, 1948; Schmid & Guppy, 1952; Ross & Spencer, 1952; Smith, 1968; Nimmo, 1971;  
 Nimmo & Scudder, 1978; Schmid, 1981; Nimmo & Scudder, 1983);  
 CA (Banks, 1911; Denning, 1956; Smith, 1968; Nimmo, 1971; Schmid, 1981;  
 Leland, Fend, Carter, & Mahood, 1986; McElravy & Resh, 1987;  
 Givens, 2014; Resh & Mendez, 2022);  
 CO (Denning, 1948; Smith, 1968; Nimmo, 1971; Allen, 1975; Canton & Ward, 1977;  
 Canton & Ward, 1978; Short, Ward, Gary, & Currie, 1978; Short & Ward, 1980;  
 Schmid, 1981; Ward, 1981; Ward, 1986; Canton & Chadwick, 1983;  
 Herrmann, Ruiters, & Unzicker, 1986; Ruiters, 1996; Ruse & Herrmann, 2000;  
 Prather & Morse, 2001; Zuellig, Heinold, Kondratieff, & Ruiters, 2012);

- ID (Smith, 1968; Nimmo, 1971; Newell & Minshall, 1977; Schmid, 1981);  
 MB (Cobb, Flannagan, & Friesen, 1984; Zhou, Jacobus, DeWalt, Adamowicz, & Hebert, 2010; Ruiter, Boyle, & Zhou, 2013; Chatila-Amos, 2021);  
 MI (Houghton, 2020; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Etnier, 1968; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Smith, 1968; Newell, 1970; Nimmo, 1971; Newell & Potter, 1973; Schmid, 1981; Roemhild, 1982);  
 NH (Flint, 1962; Smith, 1968; Nimmo, 1971);  
 NM (Molles, 1982);  
 NT (Nimmo, 1986);  
 NV (Nimmo, 1971; Schmid, 1981; Ruiter, Baumann, & Flint, 2014);  
 OR (Smith, 1968; Nimmo, 1971; Anderson, 1976; Schmid, 1981; Anderson, Cooper & Denning, 1982; Anderson, Wisseman, & Courtney, 1984; Anderson & Hansen, 1987);  
 QC (Roy & Harper, 1979; Harper, 1989);  
 UT (Smith, 1968; Nimmo, 1971; Schmid, 1981; Baumann & Unzicker, 1981; Prather & Morse, 2001);  
 WA (Smith, 1968; Nimmo, 1971; Schmid, 1981; Smith, 1981; Anderson & Wisseman, 1987; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013);  
 WY (Denning, 1948; Smith, 1968; Nimmo, 1971; Schmid, 1981; Ruiter & Lavigne, 1985; Prather & Morse, 2001);  
 YT (Smith, 1968; Nimmo, 1971; Schmid, 1981; Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997).
- Rhyacophila appalachia* Morse and Ross, 1971, SC;  
 larva (Weaver & White, 1981);  
 female (Etnier, Parker, & Stocks, 2004);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 KY (Resh, 1975; Prather, Syrett, & Morse, 1997; Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Prather & Morse, 2001; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 SC (Morse & Ross, 1971; Weaver & White, 1981; Prather, Syrett, & Morse, 1997; Prather & Morse, 2001);  
 TN (Etnier & Schuster, 1979; Prather, Syrett, & Morse, 1997; Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Flint, Hoffman, & Parker, 2004; Zhou et al., 2011).
- Rhyacophila arcella* Denning, 1975, CA;  
 CA (Denning, 1975; Resh & Mendez, 2022).
- Rhyacophila ardala* Denning, 1965, CA;  
 CA (Denning, 1965; Schmid, 1970; Erman & Erman, 1990; Erman, 1998; Resh & Mendez, 2022)  
 NV (Ruiter, Baumann, & Flint, 2014).
- Rhyacophila arnaudi* Denning, 1948, OR;  
 male genitalia (Schmid, 1970);  
 male & female genitalia (Schmid, 1981);  
 larva (Smith, 1984);  
 west Nearctic (Schmid, 1970);  
 BC (Nimmo & Scudder, 1978; Schmid, 1981; Nimmo & Scudder, 1983; Smith, 1984);  
 CA (Wold, 1974; Anderson, 1976; Schmid, 1981; Smith, 1984; Resh & Mendez, 2022);  
 NV (Ruiter, Baumann, & Flint, 2014);  
 OR (Denning, 1948; Wold, 1974; Anderson, 1976; Schmid, 1981; Anderson, Cooper, & Denning, 1982; Smith, 1984; Anderson, Wisseman, & Courtney, 1984);

- WA (Thut, 1969; Wold, 1974; Anderson, 1976; Schmid, 1981;  
Smith, 1981; Smith, 1984; Anderson & Wisseman, 1987;  
Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Morley, Foley, Duda et al, 2020).
- Rhyacophila atrata* Banks, 1911, NC;  
larva (Flint, 1962);  
male & female genitalia (Schmid, 1981);  
east Nearctic (Schmid, 1970);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
CO (Dodds & Hisaw, 1925; Prather, Syrett, & Morse, 1997);  
CT (Nelson & Downs, 1995);  
MA (Denning, 1948; Neves, 1979; Schmid, 1981;  
Prather, Syrett, & Morse, 1997);  
NC (Banks, 1911; Schmid, 1981; Penrose, Lenat, & Eagleson, 1982;  
Armitage & Tennesen, 1984; Morse, Hamilton, & Hoffman, 1989;  
Prather, Syrett, & Morse, 1997; Prather & Morse, 2001;  
DeWalt, Jacobus, & McCafferty, 2007;  
Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);  
NH (Denning, 1948; Schmid, 1981; Prather, Syrett, & Morse, 1997);  
NS (Banks, 1930; Schmid, 1981; Prather, Syrett, & Morse, 1997);  
NY (Flint, 1962; Schmid, 1981; Prather, Syrett, & Morse, 1997;  
Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
PA (Weaver & Sykora, 1979; Masteller & Flint, 1980;  
Masteller & Flint, 1984; Masteller & Flint, 1992;  
Prather, Syrett, & Morse, 1997);  
SC (Morse, Hamilton, & Hoffman, 1989;  
Prather, Syrett, & Morse, 1997);  
TN (Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005);  
VA (Flint, Hoffman, & Parker, 2004);  
VT (Wimmer, 1979; Prather, Syrett, & Morse, 1997).
- Rhyacophila banksi* Ross, 1944, NH;  
larva (Weaver & Sykora, 1979);  
male & female genitalia (Schmid, 1981);  
east Nearctic (Schmid, 1970);  
AL (Zhou et al., 2011);  
AR (Moulton & Stewart, 1996; Bowles, Cheri, Usrey, & Williams, 2020);  
MD (Prather & Morse, 2001; Zhou et al., 2011);  
MO (Moulton & Stewart, 1996; Bowles, 2020;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
NH (Ross, 1944; Denning, 1948; Schmid, 1981;  
Moulton & Stewart, 1996; Prather, Syrett, & Morse, 1997);  
NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
OH (McElravy, Arsuffi, & Foote, 1977; Huryn & Foote, 1983;  
Moulton & Stewart, 1996; Prather, Syrett, & Morse, 1997; Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
ON (Zhou et al., 2011);  
PA (Masteller & Flint, 1979; Masteller & Flint, 1984; Weaver & Sykora, 1979;  
Masteller & Flint, 1992; Moulton & Stewart, 1996; Prather, Syrett, & Morse, 1997);  
QC (Roy & Harper, 1979; Schmid, 1981; Moulton & Stewart, 1996;  
Prather, Syrett, & Morse, 1997);  
TN (Etnier, 1973; Moulton & Stewart, 1996; Prather, Syrett, & Morse, 1997;  
Etnier, Baxter, Fraley, & Parker, 1998);  
VA (Parker & Voshell, 1981; Moulton & Stewart, 1996; Prather, Syrett, & Morse, 1997;  
Flint, Hoffman, & Parker, 2004; Zhou et al., 2011);  
VT (Denning, 1948; Wimmer, 1979; Schmid, 1981; Moulton & Stewart, 1996;  
Prather, Syrett, & Morse, 1997);

- WV (Tarter, 1990; Griffith & Perry, 1992; Moulton & Stewart, 1996;  
Prather, Syrett, & Morse, 1997; Prather & Morse, 2001; Tarter & Floyd, 2016).
- Rhyacophila basalis* Banks, 1911, CA;  
[possibly *R. oreta* Ross, 1941, is a synonym according to Schmid, 1981];  
male genitalia (Denning, 1956);  
CA (Banks, 1911; Denning, 1956; Schmid, 1970; Resh & Mendez, 2022);  
UT (Knowlton & Harmston, 1939; Schmid, 1970; Baumann & Unzicker, 1981);  
WA (Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005);  
WY (Denning, 1948; Ruiter & Lavigne, 1985).
- Rhyacophila belona* Ross, 1948, MT;  
wings, male & female genitalia (Nimmo, 1971);  
male & female genitalia (Schmid, 1981);  
AB (Nimmo, 1971; Schmid, 1981);  
BC (Nimmo & Scudder, 1978; Schmid, 1981);  
ID (Nimmo, 1971);  
MT (Ross, 1948; Newell, 1970; Schmid, 1970; Schmid, 1981).
- Rhyacophila betteni* Ling, 1938, CA;  
male genitalia (Schmid, 1970);  
BC (Nimmo & Scudder, 1978);  
CA (Ling, 1938; Ross, 1956; Denning, 1956; Schmid, 1970; Lee & Ruiter, 2010;  
Resh & Mendez, 2022);  
OR (Schmid, 1970; Anderson, 1976).
- Rhyacophila bifila* Banks, 1914, BC;  
male & female genitalia (Denning, 1965);  
larva (Smith, 1968);  
male & female genitalia (Schmid, 1970; Schmid, 1981);  
wings, male & female genitalia (Nimmo, 1971);  
larval head, male & female genitalia (Peck & Smith, 1978);  
AB to WY to BC to CA (Wold, 1974);  
west Nearctic (Schmid, 1970);  
AB (Smith, 1968; Nimmo, 1971; Wold, 1974; Peck & Smith, 1978;  
Schmid, 1981);  
BC (Banks, 1914; Gibson, 1915; Ross, 1947; Ross & Spencer, 1952;  
Smith, 1968; Nimmo, 1971; Wold, 1974; Peck & Smith, 1978;  
Nimmo & Scudder, 1978; Schmid, 1981; Nimmo & Scudder, 1983);  
CA (Denning, 1948; Denning, 1956; Smith, 1968; Nimmo, 1971; Wold, 1974;  
Peck & Smith, 1978; Resh & Sorg, 1978; Schmid, 1981; Resh & Mendez, 2022);  
CO (Ruiter, 1996; Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
ID (Smith, 1965; Schmid, 1968; Nimmo, 1971; Newell & Minshall, 1977; Peck & Smith, 1978;  
Schmid, 1981);  
MT (Denning, 1965; Smith, 1968; Newell, 1970; Nimmo, 1971;  
Newell & Potter, 1973; Peck & Smith, 1978; Schmid, 1981;  
Roemhild, 1982);  
NV (Ruiter, Baumann, & Flint, 2014);  
OR (Denning, 1965; Smith, 1968; Nimmo, 1971; Anderson, 1976;  
Peck & Smith, 1978; Schmid, 1981);  
UT (Schmid, 1981; Baumann & Unzicker, 1981);  
WA (Smith, 1968; Nimmo, 1971; Peck & Smith, 1978; Schmid, 1981;  
Smith, 1981; Blinn & Ruiter, 2013);  
WY (Smith, 1968; Nimmo, 1971; Wold, 1974; Peck & Smith, 1978;  
Schmid, 1981; Ruiter & Lavigne, 1985; Ruiter, 1996);  
YT (Schmid, 1981; Nimmo & Wickstrom, 1984;  
Wiggins & Parker, 1997).
- Rhyacophila bifurcata* Lee & Giersch, 2014, WA;  
male genitalia, sternite V, femur (Lee & Giersch, 2014);

WA (Lee & Giersch, 2014).

*Rhyacophila blarina* Ross, 1941, OR;  
 male genitalia (Schmid, 1970);  
 male & female genitalia (Schmid, 1981);  
 west Nearctic (Schmid, 1970);  
 OR (Rosss, 1941; Anderson, 1976; Schmid, 1981;  
 Anderson, Cooper, & Denning, 1982;  
 Anderson, Wisseman, & Courtney, 1984;  
 Anderson & Hansen, 1987);  
 WA (Wold, 1974; Schmid, 1981; Anderson & Wisseman, 1987).

*Rhyacophila brunnea* Banks, 1911, NM;  
 nomen dubium (Schmid, 1981);  
*Rhyacophila acuminata* Fields, 1981, CA (Smith, 1984; Smith, 1986);  
*Rhyacophila acropedes* Banks, 1914, UT (Smith & Manuel, 1984;  
 Smith, 1984; Smith, 1986);  
*Rhyacophila ignorata* Schmid, 1974, NH (Smith, 1984; Smith, 1986);  
 larva (Flint, 1962; Smith, 1968; Wold, 1974;  
 Williams & Wiggins, 1981);  
 wings, male & female genitalia (Nimmo, 1971);  
 adult head, wings (Schmid, 1980);  
 male genitalia (Marshall & Larson, 1982);  
 male and female genitalia (Schmid, 1981; Smith & Manuel, 1984);  
 BC to AB to CA to CO, transcontinental (Anderson, 1976);  
 east and west Nearctic (Schmid, 1970);  
 AB (Smith, 1968; Nimmo, 1971; Anderson, 1976; Schmid, 1981);  
 BC (Ross, 1938; Denning, 1948; Nimmo, 1971; Anderson, 1976; Nimmo & Scudder, 1978;  
 Schmid, 1981; Nimmo & Scudder, 1983);  
 CA (Denning, 1948; Denning, 1956; Smith, 1968; Nimmo, 1971; Anderson, 1976;  
 Resh & Sorg, 1978; Schmid, 1981; Fields, 1981; Leland, Fend, Carter, & Mahood, 1986;  
 Erman & Erman, 1990; Myers & Resh, 1999; Givens, 2014; Resh & Mendez, 2022);  
 CO (Dodds & Hisaw, 1925; Smith, 1968; Nimmo, 1971; Mecom, 1972; Allan, 1975;  
 Kumar, Lavigne, Lloyd, & Pfadt, 1976; Anderson, 1976; Herrmann, 1977;  
 Short, Ward, Gary, & Currie, 1978; Short & Ward, 1980;  
 Short, Canton, & Ward, 1980; Ward, 1981; Schmid, 1981; Ward, 1986;  
 Canton & Chadwick, 1983; Smith & Manuel, 1984; Herrmann, Ruiter, & Unzicker, 1986;  
 DeWalt, Stewart, Moulton, & Kennedy, 1994; Ruiter, 1996; Ruse & Herrmann, 2000;  
 Zuellig, Kondratieff, Ruiter, & Thorp, 2006;  
 Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 ID (Smith, 1968; Nimmo, 1971; Newell & Minshall, 1977; Schmid, 1981;  
 Smith & Manuel, 1984);  
 LB (Ross, 1941; Smith, 1968; Nimmo, 1971; Smith, 1984);  
 ME (Flint, 1962; Smith, 1968; Nimmo, 1971; Mingo & Gibbs, 1979; Schmid, 1981; Smith, 1984;  
 Bilger, 1986);  
 MI (Leonard & Leonard, 1949; Ellis, 1962; Smith, 1968;  
 Nimmo, 1971; Schmid, 1981; Smith & Manuel, 1984;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
 Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Smith, 1968; Newell, 1970; Nimmo, 1971; Newell & Potter, 1973; Schmid, 1981;  
 Roemhild, 1982);  
 NF (Marshall & Larson, 1982; Smith & Manuel, 1984;  
 Cordero, Sánchez-Ramírez, & Currie, 2017);  
 NH (Denning, 1948; Smith, 1968; Nimmo, 1971; Schmid, 1974;  
 Schmid, 1981; Smith & Manuel, 1984; Smith, 1984; Lonsdale, 2020);  
 NM (Banks, 1911; Molles, 1982; Smith & Manuel, 1984);



NT (Schmid, 1981);  
 NV (Smith, 1968; Nimmo, 1971; Schmid, 1981; Ruiter, Baumann, & Flint, 2014);  
 NY (Flint, 1962; Smith, 1968; Nimmo, 1971; Schmid, 1981; Smith, 1984;  
     Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 ON (Smith, 1968; Nimmo, 1971; Schmid, 1981; Smith, 1984);  
 OR (Anderson, 1967; Anderson, 1976; Smith, 1968; Schmid, 1981;  
     Anderson, Cooper, & Denning, 1982; Smith & Manuel, 1984;  
     Anderson & Hansen, 1987);  
 PA (Masteller & Flint, 1992);  
 PE (Dobrin & Giberson, 2003);  
 QC (Roy & Harper, 1979; Williams & Williams, 1979; Schmid, 1981; Harper, 1989;  
     Cordero, Sánchez-Ramírez, & Currie, 2017);  
 SD (Smith, 1968; Nimmo, 1971; Schmid, 1981; Ruiter, 1996; Prather & Morse, 2001;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 UT (Banks, 1914; Smith, 1968; Nimmo, 1971; Schmid, 1981;  
     Baumann & Unzicker, 1981; Prather & Morse, 2001);  
 VT (Wimmer, 1979);  
 WA (Schmid, 1981; Smith, 1981; Smith & Manuel, 1984;  
     Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013);  
 WI (Smith, 1968; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Shapas & Hilsenhoff, 1976;  
     Hilsenhoff, 1995;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WY (Denning, 1948; Vincent, 1967; Smith, 1968; Nimmo, 1971; Wold, 1974;  
     Swegman & Ferrington, 1980; Schmid, 1981; Ruiter & Lavigne, 1985);  
 YT (Schmid, 1981; Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997).  
*Rhyacophila californica* Ling, 1938, CA;  
     male & female genitalia (Denning, 1975);  
     CA (Ling, 1938; Denning, 1975; Resh & Mendez, 2022).  
*Rhyacophila carolae* Harris, 1989, AL;  
     AL (Harris, 1989; Harris & Lago, 1990; Harris, 1990; Harris, O'Neil, & Lago, 1991;  
     Prather, Syrett, & Morse, 1997; Morse et al, 1997; Prather & Morse, 2001).  
*Rhyacophila carolina* Banks, 1911, NC;  
     *Rhyacophila gordonii* Sibley, 1926 (Milne, 1936);  
     larva (*Rhyacophila* species 5) (Flint, 1962; Neves, 1977; Weaver & Sykora, 1979);  
     male genitalia (Schmid, 1970);  
     male genitalia (Sykora & Weaver, 1976);  
     male & female genitalia (Schmid, 1981);  
     east Nearctic (Schmid, 1970);  
     NC/SC (Unzicker, Resh, & Morse, 1982);  
     AL (Harris, Lago, & O'Neil, 1984; Harris, 1987; Harris & Lago, 1990;  
     Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991;  
     Prather, Syrett, & Morse, 1997; Hicks & Haynes, 2000a; Harris & O'Neil, 2015);  
     CT (Britton, 1938; Nelson, 1987; Nelson & Downs, 1995;  
     Prather, Syrett, & Morse, 1997);  
     DE (Lake, 1984; Prather, Syrett, & Morse, 1997);  
     FL (Harris, Lago, & Scheiring, 1982; Gordon, 1984; Pescador, Rasmussen, & Harris, 1995, 2004;  
     Prather, Syrett, & Morse, 1997; Rasmussen, 2004; Zhou et al., 2011;  
     Denson, Rasmussen, & Harris, 2016);  
     GA (Frazer, Harris, & Ward, 1991);  
     KY (Resh, 1975; Phillippi & Schuster, 1987; Floyd & Schuster, 1990;  
     Prather, Syrett, & Morse, 1997; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
     MA (Denning, 1948; Neves, 1977; Neves, 1979; Schmid, 1981; Bilger, 1986;  
     Prather, Syrett, & Morse, 1997; Whitmore 2008);  
     ME (Blickle & Morse, 1966; Mingo & Gibbs, 1980; Schmid, 1981; Bilger, 1986);

Prather, Syrett, & Morse, 1997);  
MO (Harris & Lawrence, 1978; Prather, Syrett, & Morse, 1997;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MS (Etnier, 2010);  
NB (Harris & Lawrence, 1978; Prather, Syrett, & Morse, 1997);  
NC (Banks, 1911; Schmid, 1981; Penrose, Lenat, & Eagleson, 1982; Lenat, 1983;  
Armitage & Tennessen, 1984; Morse, Hamilton, & Hoffman, 1989;  
Prather, Syrett, & Morse, 1997; Floyd, Morse, & Harris, 1997; Prather & Morse, 2001;  
DeWalt, Jacobus, & McCafferty, 2007;  
Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011; Park, 2018);  
NF (Marshall & Larson, 1982; Prather, Syrett, & Morse, 1997);  
NH (Denning, 1948; Schmid, 1981; Prather, Syrett, & Morse, 1997);  
NJ (Weaver & Sykora, 1979; Prather, Syrett, & Morse, 1997;  
Mendez, Spagna, Holzenthal, & Houghton, 2019);  
NY (Betten, 1926; Sibley, 1926; Schmid, 1981; Bilger, 1986; Prather, Syrett, & Morse, 1997;  
Myers, Kondratieff, Mihuc, & Ruitter, 2011);  
OH (McElravy, Arsuffi, & Foote, 1977; Petersen & Fotte, 1980; Huryn & Foote, 1983;  
Prather, Syrett, & Morse, 1997; Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
ON (Singh, Smith, & Harrison, 1984a; Harper, 1989; Prather, Syrett, & Morse, 1997);  
PA (Masteller & Flint, 1979; Masteller & Flint, 1984; Weaver & Sykora, 1979;  
Swegman, Walker, & Sykora, 1981; Masteller & Flint, 1992;  
Prather, Syrett, & Morse, 1997);  
QC (Roy & Harper, 1975; Roy & Harper, 1979; Schmid, 1981; Harper, 1989;  
Prather, Syrett, & Morse, 1997);  
SC (Manuel & Folsom, 1982; Morse, Hamilton, & Hoffman, 1989; Floyd & Morse, 1993;  
Prather, Syrett, & Morse, 1997; Floyd, Morse, & Harris, 1997; Prather & Morse, 2001;  
Zhou et al., 2011);  
TN (Flint, 1962; Etnier & Schuster, 1979; Schmid, 1981; Prather, Syrett, & Morse, 1997;  
Etnier, Baxter, Fraley, & Parker, 1998; Prather & Morse, 2001; DeWalt & Heinold, 2005;  
DeWalt, Jacobus, & McCafferty, 2007; Zhou et al., 2011);  
VA (Schmid, 1981; Prather, Syrett, & Morse, 1997; Flint, Hoffman, & Parker, 2004;  
Zhou et al., 2011; Flint, 2011);  
VT (Wimmer, 1979; Prather, Syrett, & Morse, 1997);  
WV (Applin & Tarter, 1977; Tarter & Hill, 1979; Tarter, 1990; Griffith & Perry, 1992;  
Prather, Syrett, & Morse, 1997; Tarter & Floyd, 2016).  
*Rhyacophila carpenteri* Milne, 1936, NH;  
*Rhyacophila* species 3 Flint, 1962 (Weaver & Sykora, 1979);  
male genitalia (Schmid, 1970);  
larva (Weaver & Sykora, 1979);  
male & female genitalia (Schmid, 1981);  
east Nearctic (Schmid, 1970);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
KY (Resh, 1975; Floyd & Schuster, 1990; Prather, Syrett, & Morse, 1997;  
Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MA (Milne, 1936; Schmid, 1981; Prather, Syrett, & Morse, 1997);  
NC (Carpenter, 1933; Schmid, 1981; Huryn & Wallace, 1987; Huryn & Wallace 1988;  
Prather, Syrett, & Morse, 1997; DeWalt, Jacobus, & McCafferty, 2007;  
Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);  
NF (Marshall & Larson, 1982; Prather, Syrett, & Morse, 1997);  
NH (Milne, 1936; Denning, 1948; Roback, 1975; Schmid, 1981;  
Prather, Syrett, & Morse, 1997; Prather & Morse, 2001);  
NY (Schmid, 1981; Bilger, 1986; Prather, Syrett, & Morse, 1997;  
Myers, Kondratieff, Mihuc, & Ruitter, 2011);

- OH (McElravy, Arsuffi, & Foote, 1977; Huryn & Foote, 1983;  
Prather, Syrett, & Morse, 1997; Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
PA (Weaver & Sykora, 1979; Masteller & Flint, 1992; Prather, Syrett, & Morse, 1997);  
QC (Milne, 1936; Roy & Harper, 1979; Schmid, 1981; Prather, Syrett, & Morse, 1997);  
TN (Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005);  
VA (Schmid, 1981; Parker & Voshell, 1981; Prather, Syrett, & Morse, 1997;  
Prather & Morse, 2001; Flint, Hoffman, & Parker, 2004; Zhou et al., 2011);  
VT (Wimmer, 1979; Prather, Syrett, & Morse, 1997);  
WV (Tarter, 1990; Griffith & Perry, 1992; Prather, Syrett, & Morse, 1997;  
Prather & Morse, 2001; Tarter & Floyd, 2016).
- Rhyacophila celadon Etnier, Stocks, and Parker, 2004, in Etnier, Parker, and Stocks, TN;  
NC (Etnier, Parker, and Stocks, 2004; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010;  
Zhou et al., 2011);  
TN (Etnier, Parker, and Stocks, 2004).
- Rhyacophila cerita Denning, 1971, CA;  
male & female genitalia (Denning, 1975);  
CA (Denning, 1971; Denning, 1975; Resh & Mendez, 2022).
- ? Rhyacophila chandleri Denning, 1956, CA;  
doubtful or insufficiently known species (Schmid, 1970);  
CA (Denning, 1956; Resh & Mendez, 2022);  
OR (Anderson, 1976).
- Rhyacophila chilsia Denning, 1950, AB;  
male genitalia (Schmid, 1970);  
male genitalia (Nimmo, 1971);  
male & female genitalia (Schmid, 1981);  
AB (Denning, 1950; Schmid, 1970; Schmid, 1981);  
AK (Vineyard, 1982);  
BC (Schmid, 1970; Wold, 1974; Anderson, 1976;  
Nimmo & Scudder, 1978; Schmid, 1981; );  
OR (Wold, 1974; Anderson, 1976; Schmid, 1981);  
WA (Anderson & Wisseman, 1987; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005;  
Blinn & Ruiter, 2013).
- Rhyacophila chordata Denning, 1989, CA;  
AZ (Denning, 1989; Blinn & Ruiter, 2006);  
CA (Denning, 1989; Resh & Mendez, 2022);  
NV (Denning, 1989; Ruiter, Baumann, & Flint, 2014).
- Rhyacophila colonus Schmid, 1970, OR  
male genitalia (Schmid, 1970);  
OR (Schmid, 1970; Anderson, 1976; Lonsdale, 2020).
- Rhyacophila coloradensis Banks, 1905, CO;  
Rhyacophila anomala Banks, 1924 (Milne, 1936);  
Rhyacophila stigmatica Banks, 1904, preoccupied, nec R. stigmatica Kolenati  
(Peck & Smith, 1978);  
male & female genitalia (Denning, 1965);  
internal female genitalia (Unzicker, 1968);  
larva (Smith, 1968);  
male genitalia (Schmid, 1970);  
wings, male & female genitalia (Nimmo, 1971);  
larval head & anal proleg, male & female genitalia  
(Peck & Smith, 1978, both R c c & R c i);  
male & female genitalia (Schmid, 1981, R c i);  
west Nearctic (Schmid, 1970);  
AB (Smith, 1968; Nimmo, 1971);  
AZ (Denning, 1965; Smith, 1968; Nimmo, 1971; Peck & Smith, 1978);

- Moulton, Stewart, & Young, 1994; Blinn & Ruiter, 2006);  
 BC (Ross & Spencer, 1952; Smith, 1968; Nimmo, 1971);  
 CA (Smith, 1968; Nimmo, 1971; Resh & Mendez, 2022);  
 CO (Banks, 1904; Banks, 1907; Banks, 1924; Dodds & Hisaw, 1925; Denning, 1948;  
 Denning, 1965; Smith, 1968; Nimmo, 1971; Allan, 1975; Ward, 1975; Ward, 1976;  
 Ward, 1981; Peck & Smith, 1978; Short & Ward, 1980; Ward, 1981;  
 Ward, 1986; Canton & Chadwick 1983; Herrmann, Ruiter, & Unzicker, 1986;  
 DeWalt, Stewart, Moulton, & Kennedy, 1994; Ruiter, 1996; Ruse & Herrmann, 2000;  
 Zuellig, Kondratieff, Ruiter, & Thorp, 2006;  
 Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 ID (Smith, 1968; Nimmo, 1971; Newell & Minshall, 1977; Nimmo & Scudder, 1978, R c i;  
 Peck & Smith, 1978; Schmid, 1981, R c i);  
 MT (Denning, 1965; Smith, 1968; Newell, 1970; Nimmo, 1971;  
 Newell & Potter, 1973; Peck & Smith, 1978; Roemhild, 1982);  
 NM (Banks, 1904; Banks, 1907; Denning, 1965; Nimmo, 1971;  
 Peck & Smith, 1978);  
 NV (Ruiter, Baumann, & Flint, 2014);  
 OR (Denning, 1965; Smith, 1968; Nimmo, 1971);  
 UT (Denning, 1965; Smith, 1968; Nimmo, 1971; Peck & Smith, 1978;  
 Baumann & Unzicker, 1981);  
 WA (Smith, 1968; Nimmo, 1971; Blinn & Ruiter, 2013);  
 WY (Muttowski, 1929; Denning, 1948; Smith, 1968; Nimmo, 1971;  
 Wold, 1974; Peck & Smith, 1978; Ruiter & Lavigne, 1985).
- Rhyacophila coloradensis idahoensis* Peck & Smith, 1978, ID;  
 AB (Nimmo & Scudder, 1978; Peck & Smith, 1978; Schmid, 1981);  
 BC (Peck & Smith, 1978; Nimmo & Scudder, 1978; Schmid, 1981);  
 ID (Peck & Smith, 1978).
- Rhyacophila dandaganu* Robinson & Parker, 2019, GA;  
 male & female genitalia (Robinson & Parker, 2019);  
 AL (Harris et al, 1983; Harris & Lago, 1990;  
 Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991;  
 Moulton & Stewart, 1996; Prather, Syrett, & Morse, 1997;  
 Hicks & Haynes, 2000a; all previously published records of *Rhyacophila lobifera* from  
 Alabama (see above citations) are *Rhyacophila dandaganu* according to  
 Robinson & Parker, 2019);  
 GA (Robinson & Parker, 2019).
- Rhyacophila darbyi* Fields, 1981, CA;  
 male genitalia (Lee & Ruiter, 2010);  
 CA (Fields, 1981; Lee & Ruiter, 2010; Resh & Mendez, 2022).
- Rhyacophila donaldi* Nimmo, 1977, AB;  
 male & female genitalia (Schmid, 1981);  
 AB (Nimmo, 1977; Schmid, 1981; Lonsdale, 2020).
- Rhyacophila ebria* Denning, 1949, MT;  
 male genitalia (Schmid, 1970);  
 male & female genitalia (Schmid, 1981);  
 BC (Schmid, 1970; Nimmo & Scudder, 1978; Schmid, 1981);  
 MT (Denning, 1949; Schmid, 1970; Newell, 1970;  
 Newell & Potter 1973; Schmid, 1981; Roemhild, 1982).
- Rhyacophila ecosia* Ross, 1941, OR;  
 male genitalia (Schmid, 1970);  
 CA to MT, OR (Denning, 1975);  
 west Nearctic (Schmid, 1970);  
 CA (Denning, 1956; Denning, 1975; Lee & Ruiter, 2010; Resh & Mendez, 2022);  
 MT (Denning, 1975, presence in MT dubious, Wisseman pers comm);  
 OR (Ross, 1941; Anderson & Wold, 1972; Denning, 1975);

- Anderson, 1976; Anderson, Cooper, & Denning, 1982;  
 Anderson, Wisseman, & Courtney, 1984; Anderson, 1997);  
 WA (Anderson, 1976; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005).
- Rhyacophila fenderi* Ross, 1948, OR;  
 male genitalia (Schmid, 1970);  
 male & female genitalia (Schmid, 1981);  
 CA (Wold, 1974; Anderson, 1976; Schmid, 1981; Lee & Ruiter, 2010; Resh & Mendez, 2022);  
 OR (Ross, 1948; Schmid, 1970; Anderson & Wold, 1972; Anderson, 1976; Schmid, 1981;  
 Anderson, Cooper, & Denning, 1982; Anderson, 1997);  
 WA (Schmid, 1981; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013).
- Rhyacophila fenestra* Ross, 1938, IL;  
 larva (Flint, 1962);  
 male genitalia (Schmid, 1970);  
 AL (Harris & Lago, 1990; Harris, 1990; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996;  
 Prather, Syrett, & Morse, 1997; Hicks & Haynes, 2000a);  
 AR (Board, 1987; Bowles & Mathis, 1989; Moulton & Stewart, 1996;  
 Prather, Syrett, & Morse, 1997; Bowles, 2020);  
 IL (Ross, 1938; Ross, 1944; Schmid, 1970; Moulton & Stewart, 1996;  
 Prather, Syrett, & Morse, 1997;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996; Prather, Syrett, & Morse, 1997;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Moulton & Stewart, 1996; Prather, Syrett, & Morse, 1997;  
 Etnier, Bauer, & Zirkle, 2006; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NC (Edwards, 1966; Moulton & Stewart, 1996; Prather, Syrett, & Morse, 1997;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 OH (Huryn & Foote, 1983; Garono & MacLean, 1988; Moulton & Stewart, 1996;  
 Prather, Syrett, & Morse, 1997; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 SC (Edwards, 1966; Moulton & Stewart, 1996; Prather, Syrett, & Morse, 1997);  
 TN (Edwards, 1966; Etnier & Schuster, 1979; Moulton & Stewart, 1996;  
 Etnier, Baxter, Fraley, & Parker, 1998; Prather, Syrett, & Morse, 1997;  
 Prather & Morse, 2001; Etnier, Bauer, & Zirkle, 2006  
 VT (Bilger, 1986; Moulton & Stewart, 1996; Prather, Syrett, & Morse, 1997).
- Rhyacophila formosa* Banks, 1911, NJ;  
 doubtful or insufficiently known species (Schmid, 1970);  
*Rhyacophila vuphipes* Milne, 1936, NY (Weaver, 1990a);  
 male genitalia (Schmid, 1970);  
 larva (Sherberger & Wallace, 1971; Roback, 1975);  
 male & female genitalia (Schmid, 1981);  
 east Nearctic (Schmid, 1970);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris, Lago, & O'Neil, 1984; Harris & Lago, 1990;  
 Harris, O'Neil, & Lago, 1991;  
 Harris, Kondratieff, & Stark, 1996;  
 Prather, Syrett, & Morse, 1997);  
 DE (Slosson, 1912; Prather, Syrett, & Morse, 1997);  
 GA (Harris, O'Neil, & Lago, 1991; Prather, Syrett, & Morse, 1997);  
 MA (Neeves, 1979; Prather, Syrett, & Morse, 1997);  
 ME (Mingo & Gibbs, 1980; Bilger, 1986;  
 Prather, Syrett, & Morse, 1997);  
 NC (Roback, 1975; Prather, Syrett, & Morse, 1997);

Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);  
 NJ (Banks, 1911; Weaver & Sykora, 1979;  
     Prather, Syrett, & Morse, 1997);  
 NY (Milne, 1936; Denning, 1948; Schmid, 1981; Prather, Syrett, & Morse, 1997;  
     Myers, Kondratieff, Mihuc, & Ruitter, 2011);  
 ON (Ross, 1944; Schmid, 1981; Prather, Syrett, & Morse, 1997);  
 PA (Weaver & Sykora, 1979; Masteller & Flint, 1992;  
     Prather, Syrett, & Morse, 1997);  
 QC (Robert, 1958; Roy & Harper, 1975; Roy & Harper, 1979;  
     Schmid, 1981; Prather, Syrett, & Morse, 1997);  
 SC (Morse et al, 1979; Prather, Syrett, & Morse, 1997; Zhou et al., 2011);  
 TN (Etnier & Schuster, 1979; Prather, Syrett, & Morse, 1997;  
     Etnier, Baxter, Fraley, & Parker, 1998; Zhou et al., 2011);  
 VA (Prather & Morse, 2001; Flint, Hoffman, & Parker, 2004);  
 VT (Wimmer, 1979; Prather, Syrett, & Morse, 1997);  
 WV (Applin & Tarter, 1977; Tarter, 1990;  
     Prather, Syrett, & Morse, 1997; Tarter & Floyd, 2016).  
*Rhyacophila fuscula* (Walker, 1852), Neuronina, Canada;  
     larva (Flint, 1962);  
     male & female genitalia (Schmid, 1970; Schmid, 1981);  
     larva (Wiggins, 1977);  
     male maxillary palp, protibia, genitalia (Marshall & Larson, 1982);  
     maxillary palp & male genitalia (Houghton, 2012);  
     Canada (Walker, 1852);  
     east Nearctic (Schmid, 1970);  
     QC to NC to MI (Wiggins, 1961);  
     NC/SC (Unzicker, Resh, & Morse, 1982);  
     AL (Harris, 1987; Harris & Lago, 1990; Harris, O'Neil, & Lago, 1991;  
         Prather, Syrett, & Morse, 1997);  
     CT (Harris, O'Neil, & Lago, 1991; Nelson & Downs, 1995; Prather, Syrett, & Morse, 1997);  
     DE (Lake, 1984; Prather, Syrett, & Morse, 1997);  
     GA (Flint, 1962; Prather, Syrett, & Morse, 1997);  
     IL (Ross, 1944; Schmid, 1981; Prather, Syrett, & Morse, 1997;  
         Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
     KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
         Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
     LB (Eidmann, 1935; Prather, Syrett, & Morse, 1997);  
     MA (Denning, 1948; Neves, 1979; Schmid, 1981; Bilger, 1986; Prather, Syrett, & Morse, 1997;  
         Whitmore 2008);  
     ME (Ross, 1944; Procter, 1946; Blicke & Morse, 1966; Roback, 1975; Mingo & Gibbs, 1979;  
         Mingo & Gibbs, 1980; Schmid, 1981; Bilger, 1986; Prather, Syrett, & Morse, 1997);  
     MI (Ross, 1944; Wiggins, 1961; Schmid, 1981; Yanoviak & McCafferty, 1996;  
         Prather, Syrett, & Morse, 1997; Houghton, Brandin, & Brakel, 2011;  
         Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
         Houghton & Lardner, 2020; Houghton, 2022;  
         Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
     MN (Denning, 1948; Etnier, 1965; Schmid, 1981; MacLean, 1995;  
         Prather, Syrett, & Morse, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001;  
         Houghton & Holzenthal, 2010; Houghton, 2012;  
         Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
     NB (Ross, 1944; Schmid, 1981; Prather, Syrett, & Morse, 1997);  
     NC (Carpenter, 1933; Howell, 1939; Wiggins, 1961; Roback, 1975; Schmid, 1981;  
         Penrose, Lenat, & Eagleson, 1982; Armitage & Tennessen, 1984;  
         Morse, Hamilton, & Hoffman, 1989; Prather, Syrett, & Morse, 1997;  
         Floyd, Morse, & Harris, 1997; Prather & Morse, 2001);

- DeWalt, Jacobus, & McCafferty, 2007;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011; Park, 2018);  
 NF (Wiggins, 1961; Schmid, 1981; Marshall & Larson, 1982; Prather, Syrett, & Morse, 1997);  
 NH (Ross, 1944; Roback, 1975; Schmid, 1981; Bilger, 1986; Prather, Syrett, & Morse, 1997);  
 NJ (Weaver & Sykora, 1979; Prather, Syrett, & Morse, 1997;  
 Mendez, Spagna, Holzenthal, & Houghton, 2019);  
 NS (Ross, 1944; Schmid, 1981; Prather, Syrett, & Morse, 1997);  
 NY (Banks, 1892; Ross, 1941; Roback, 1975; Schmid, 1981; Bilger, 1986; McCabe, 1986;  
 Prather, Syrett, & Morse, 1997; Zhou et al., 2011;  
 Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 ON (Ricker, 1932; Betten & Mosely, 1940; Sprules, 1947; Wiggins, 1977; Schmid, 1981;  
 Martin & Mackay, 1982; Martin & Mackay, 1983; Martin, 1985;  
 Williams, Tavares, & Bryant, 1987; Harper, 1989; Williams, 1991;  
 Prather, Syrett, & Morse, 1997; Zhou et al., 2011);  
 PA (Ross, 1941; Roback, 1975; Masteller & Flint, 1979; Schmid, 1981; Masteller & Flint, 1984;  
 Weaver & Sykora, 1979; Masteller & Flint, 1992;  
 Prather, Syrett, & Morse, 1997);  
 QC (Robert, 1958; Wiggins, 1961; Roy & Harper, 1975; Roy & Harper, 1979;  
 Williams & Williams, 1979; Schmid, 1981;  
 Harper, 1989; Prather, Syrett, & Morse, 1997);  
 SC (Flint, 1962; Schmid, 1981; Manuel & Folsom, 1982; Morse, Hamilton, & Hoffman, 1989;  
 Floyd & Morse, 1993; Prather, Syrett, & Morse, 1997; Floyd, Morse, & Harris, 1997;  
 Prather & Morse, 2001);  
 TN (Carpenter, 1933; Howell, 1941; Etnier & Schuster, 1979; Schmid, 1981;  
 Prather, Syrett, & Morse, 1997; Etnier, Baxter, Fraley, & Parker, 1998;  
 DeWalt & Heinold, 2005);  
 VA (Flint, 1962; Roback, 1975; Schmid, 1981; Parker & Voshell, 1981;  
 Prather, Syrett, & Morse, 1997; Flint, Hoffman, & Parker, 2004; Zhou et al., 2011);  
 VT (Roback, 1975; Wimmer, 1979; Bilger, 1986; Prather, Syrett, & Morse, 1997);  
 WI (Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Hilsenhoff, 1995;  
 Prather, Syrett, & Morse, 1997;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Ross, 1944; Roback, 1975; Applin & Tarter, 1977; Hill & Tarter, 1978; Tarter & Hill, 1979;  
 Tarter, 1990; Griffith & Perry, 1992; Prather, Syrett, & Morse, 1997;  
 Tarter & Floyd, 2016);  
 WY (Muttkowski, 1929; Prather, Syrett, & Morse, 1997).
- Rhyacophila gemona* Ross, 1938, WA  
 male genitalia (Schmid, 1970; Schmid, 1981);  
 west Nearctic (Schmid, 1970);  
 MT (Newell & Potter, 1973; Roemhild, 1982);  
 WA (Ross, 1938; Schmid, 1981).
- Rhyacophila glaberrima* Ulmer, 1907, GA;  
*Rhyacophila andrea* Betten, 1934 (Milne, 1936);  
*Rhyacophila fairchildi* Banks, 1930 (Milne, 1936);  
 male genitalia (Schmid, 1970);  
 larva (Roback, 1975);  
 male & female genitalia (Schmid, 1981);  
 east Nearctic (Schmid, 1970);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris, 1987; Harris & Lago, 1990; Frazer, Harris, & Ward, 1991;  
 Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996; Prather, Syrett, & Morse, 1997;  
 Hicks & Haynes, 2000a; Zhou et al., 2011);  
 AR (Bowles & Mathis, 1989; Moulton & Stewart, 1996; Prather, Syrett, & Morse, 1997;  
 Etnier, 2010; Bowles, Cheri, Usrey, & Williams, 2020);  
 CT (Nelson, 1987; Nelson & Downs, 1995; Moulton & Stewart, 1996);

- Prather, Syrett, & Morse, 1997);
- GA (Ulmer, 1907; Schmid, 1981; Moulton & Stewart, 1996; Prather, Syrett, & Morse, 1997);
- IL (Ross, 1944; Moulton & Stewart, 1996; Prather, Syrett, & Morse, 1997;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996; Prather, Syrett, & Morse, 1997;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- KY (Resh, 1975; Moulton & Stewart, 1996; Prather, Syrett, & Morse, 1997;  
Etnier, Bauer, & Zirkle, 2006; Zhou et al., 2011;  
Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MA (Flint, 1962; Neves, 1979; Schmid, 1981; Moulton & Stewart, 1996;  
Prather, Syrett, & Morse, 1997; Whitmore 2008);
- ME (Procter, 1946; Blickle & Morse, 1966; Schmid, 1981; Moulton & Stewart, 1996;  
Prather, Syrett, & Morse, 1997);
- MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MO (Mathis & Bowles, 1992; Moulton & Stewart, 1996; Ferro & Sites, 2007;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MS (Harris, Lago, & Holzenthal, 1982; Moulton & Stewart, 1996;  
Prather, Syrett, & Morse, 1997);
- NC (Carpenter, 1933; Schmid, 1981; Huryn & Wallace, 1987; Huryn & Wallace, 1988;  
Morse, Hamilton, & Hoffman, 1989; Moulton & Stewart, 1996;  
Prather, Syrett, & Morse, 1997; Floyd, Morse, & Harris, 1997;  
DeWalt, Jacobus, & McCafferty, 2007;  
Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);
- NH (Morse & Blickle, 1953; Roback, 1975; Schmid, 1981; Moulton & Stewart, 1996;  
Prather, Syrett, & Morse, 1997);
- NY (Sibley, 1926; Betten 1934; Schmid, 1981; Moulton & Stewart, 1996;  
Prather, Syrett, & Morse, 1997; Myers, Kondratieff, Mihuc, & Ruitter, 2011);
- NS (Banks, 1930; Ross, 1938; Schmid, 1981; Moulton & Stewart, 1996;  
Prather, Syrett, & Morse, 1997);
- OH (McElravy, Arsuffi, & Foote, 1977; Huryn & Foote, 1983; Moulton & Stewart, 1996;  
Prather, Syrett, & Morse, 1997; Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- PA (Masteller & Flint, 1979; Masteller & Flint, 1984; Weaver & Sykora, 1979;  
Masteller & Flint, 1992; Moulton & Stewart, 1996; Prather, Syrett, & Morse, 1997);
- QC (Roy & Harper, 1975; Roy & Harper, 1979; Schmid, 1981; Moulton & Stewart, 1996;  
Prather, Syrett, & Morse, 1997);
- SC (Morse, Hamilton, & Hoffman, 1989; Floyd & Morse, 1993; Moulton & Stewart, 1996;  
Prather, Syrett, & Morse, 1997; Floyd, Morse, & Harris, 1997);
- TN (Carpenter, 1933; Edwards, 1966; Etnier & Schuster, 1979; Schmid, 1981;  
Moulton & Stewart, 1996; Prather, Syrett, & Morse, 1997;  
Etnier, Baxter, Fraley, & Parker, 1998; Prather & Morse, 2001;  
DeWalt & Heinold, 2005; Zhou et al., 2011);
- VA (Ross, 1944; Parker & Voshell, 1981; Moulton & Stewart, 1996;  
Prather, Syrett, & Morse, 1997; Flint, Hoffman, & Parker, 2004; Zhou et al., 2011;  
Flint, 2011);
- VT (Wimmer, 1979; Moulton & Stewart, 1996; Prather, Syrett, & Morse, 1997);
- WV (Applin & Tarter, 1977; Tarter, 1990; Griffith & Perry, 1992;  
Griffith, Barrows, & Perry, 1998; Moulton & Stewart, 1996;  
Prather, Syrett, & Morse, 1997; Tarter & Floyd, 2016).
- Rhyacophila glaciera* Denning, 1965, MT;  
male genitalia (Schmid, 1970);  
wings, male & female genitalia (Nimmo, 1971);  
male & female genitalia (Schmid, 1981);



- AB (Schmid, 1970; Nimmo, 1971; Schmid, 1981);  
 BC (Nimmo & Scudder, 1983);  
 MT (Denning, 1965; Schmid, 1970; Nimmo, 1971; Newell, 1970;  
 Newell & Potter, 1973; Schmid, 1981; Roemhild, 1982).
- Rhyacophila grandis* Banks, 1911, BC;  
*Rhyacophila vohrna* Milne, 1936 (Ross, 1944);  
 female genitalia (Schmid, 1970);  
 male & female genitalia (Schmid, 1981);  
 larva (Smith, 1984);  
 BC to CA (Anderson, 1976);  
 CA to AK (Smith, 1984);  
 west Nearctic (Schmid, 1970);  
 AK (Ellis, 1978; Vineyard, 1982);  
 BC (Banks, 1911; Gibson, 1912; Milne, 1936; Ross, 1938; Schmid & Guppy, 1952;  
 Ross & Spencer, 1952; Nimmo & Scudder, 1978; Schmid, 1981);  
 CA (Denning, 1956; Schmid, 1981; Erman, 1989; Erman & Erman, 1990; Lee & Ruiters, 2010;  
 Resh & Mendez, 2022);  
 OR (Ross & Spencer, 1952; Anderson & Wold, 1972; Anderson, 1976; Schmid, 1981;  
 Anderson, Cooper, & Denning, 1982; Wisseman & Anderson, 1984;  
 Anderson & Hansen, 1987; Anderson, 1997);  
 WA (Thut, 1969; Schmid, 1981; Anderson & Wisseman, 1987;  
 Ruiters, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiters, 2013).
- Rhyacophila haddocki* Denning, 1968, OR  
 OR (Denning, 1968; Anderson, 1976; Kerst, 2016).
- Rhyacophila harmstoni* Ross, 1944, UT;  
 male genitalia (Schmid, 1970);  
 CA (Denning, 1956; Erman, 1989; Erman & Erman, 1990; Erman, 1998; Myers & Resh, 1999;  
 Givens, 2014; Resh & Mendez, 2022);  
 CO (Denning, 1948; Schmid, 1970; Herrmann, Ruiters, & Unzicker, 1986;  
 Zuellig, Heinold, Kondratieff, & Ruiters, 2012);  
 NM (Schmid, 1970);  
 NV (Ruiters, Baumann, & Flint, 2014);  
 UT (Ross, 1944; Schmid, 1970).
- Rhyacophila hyalinata* Banks, 1905, CO;  
*Rhyacophila sonoma* Denning, 1948, CA (Schmid, 1970);  
 larva (Smith, 1968; Wold, 1974);  
 male genitalia (Schmid, 1970);  
 wings, male & female genitalia (Nimmo, 1971);  
 male & female genitalia (Schmid, 1981);  
 west Nearctic (Schmid, 1970);  
 AB (Nimmo, 1971);  
 BC (Nimmo, 1971; Nimmo & Scudder, 1978; Schmid, 1981; Nimmo & Scudder, 1983);  
 CA (Smith, 1968; Nimmo, 1971; Resh & Sorg, 1978; Schmid, 1981; Givens, 2014;  
 Resh & Mendez, 2022);  
 CO (Banks, 1905; Dodds & Hisaw, 1925; Denning, 1948; Smith, 1968; Nimmo, 1971;  
 Allan, 1975; Short & Ward, 1980; Schmid, 1981; Ward, 1981;  
 Herrmann, Ruiters, & Unzicker, 1986; Ward, 1986;  
 Zuellig, Kondratieff, Ruiters, & Thorp, 2006;  
 Zuellig, Heinold, Kondratieff, & Ruiters, 2012);  
 ID (Smith, 1968; Nimmo, 1971; Newell & Minshall, 1977; Schmid, 1981);  
 MT (Nimmo, 1971; Roemhild, 1982);  
 NM (Molles, 1982);  
 NV (Ruiters, Baumann, & Flint, 2014);  
 OR (Smith, 1968; Nimmo, 1971; Anderson, 1976; Schmid, 1981);  
 UT (Smith, 1968; Nimmo, 1971; Schmid, 1981);

- Baumann & Unzicker, 1981);  
 WA (Blinn & Ruiter, 2013);  
 WY (Denning, 1948; Smith, 1968; Nimmo, 1971;  
 Swegman & Ferrington 1980; Schmid, 1981;  
 Ruiter & Lavigne, 1985; Ruiter, 1996);  
 YT (Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997).
- Rhyacophila inculta* Ross & Spencer, 1952, BC;  
 male and female genitalia (Schmid, 1981; Smith & Manuel, 1984);  
 BC to CA (Wold, 1974; Anderson, 1976);  
 west Nearctic (Schmid, 1970);  
 BC (Ross, 1938; Ross & Spencer, 1952; Wold, 1974; Anderson, 1976; Nimmo & Scudder, 1978;  
 Schmid, 1981; Smith & Manuel, 1984; Smith, 1984);  
 CA (Schmid, 1981; Wold, 1974; Anderson, 1976; Smith & Manuel, 1984; Smith, 1984;  
 Resh & Mendez, 2022);  
 OR (Ross & Spencer, 1952; Anderson, 1976; Schmid, 1981; Smith, 1984);  
 WA (Schmid, 1981; Smith & Manuel, 1984; Smith, 1984; Blinn & Ruiter, 2013).
- Rhyacophila insularis* Schmid, 1970, BC;  
 male & female genitalia (Peck & Smith, 1978; Schmid, 1981);  
 BC (Schmid, 1970; Peck & Smith, 1978; Nimmo & Scudder, 1978; Schmid, 1981;  
 Lonsdale, 2020);  
 CA (Anderson, 1976; Peck & Smith, 1978; Schmid, 1981; Resh & Mendez, 2022);  
 OR (Anderson, 1976; Peck & Smith, 1978; Schmid, 1981).
- Rhyacophila invaria* (Walker, 1852), *Polycentropus*, NS;  
*Rhyacophila luctuosa* Banks, 1911 (Milne, 1936);  
 larva (Flint, 1962);  
 male genitalia (Schmid, 1970);  
 male & female genitalia (Schmid, 1981);  
 east Nearctic (Schmid, 1970);  
 CT (Nelson & Downs, 1995);  
 DE (Lake, 1984; Prather, Syrett, & Morse, 1997);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Flint, 1962; Neves, 1979; Schmid, 1981; Prather, Syrett, & Morse, 1997);  
 MD (Prather & Morse, 2001);  
 ME (Johnson, 1927; Procter, 1946; Blickle & Morse, 1966; Schmid, 1981;  
 Prather, Syrett, & Morse, 1997);  
 NB (Schmid, 1981; Prather, Syrett, & Morse, 1997);  
 NC (Harris & Lawrence, 1978; Prather, Syrett, & Morse, 1997;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NF (Schmid, 1981; Marshall & Larson, 1982; Prather, Syrett, & Morse, 1997;  
 Prather & Morse, 2001);  
 NH (Schmid, 1981; Prather, Syrett, & Morse, 1997);  
 NS (Walker, 1852; Banks, 1930; Schmid, 1981; Prather, Syrett, & Morse, 1997);  
 NY (Ross, 1938; Banks, 1911; Schmid, 1981; Prather, Syrett, & Morse, 1997;  
 Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 ON (Sprules, 1947; Schmid, 1981; Harper, 1989; Prather, Syrett, & Morse, 1997);  
 PA (Ross, 1941; Weaver & Sykora, 1979; Schmid, 1981; Masteller & Flint, 1992;  
 Prather, Syrett, & Morse, 1997);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979; Schmid, 1981; Harper, 1989;  
 Prather, Syrett, & Morse, 1997);  
 VA (Roback, 1975, according to Flint; Parker & Voshell, 1981; Prather, Syrett, & Morse, 1997;  
 Flint, Hoffman, & Parker, 2004; Flint, 2011);  
 VT (Wimmer, 1979; Prather, Syrett, & Morse, 1997);  
 WI (Banks, 1911; Prather, Syrett, & Morse, 1997;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

- WV (Applin & Tarter, 1977; Tarter, 1990; Prather, Syrett, & Morse, 1997; Tarter & Floyd, 2016).
- Rhyacophila iranda* Ross, 1938, WA;  
 male genitalia (Schmid, 1970);  
 male & female genitalia (Schmid, 1981);  
 west Nearctic (Schmid, 1970);  
 CA (Lee & Ruiter, 2010);  
 OR (Ross, 1956; Anderson & Wold, 1972; Anderson, 1976;  
 Schmid, 1981; Anderson, Cooper, & Denning, 1982);  
 WA (Ross, 1938; Schmid, 1981; Anderson & Wisseman, 1987;  
 Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013).
- Rhyacophila jenniferae* Peck, 1978 (in Peck & Smith, 1978), WA;  
 male & female genitalia (Schmid, 1981);  
 BC (Peck & Smith, 1978; Schmid, 1981);  
 CA (Peck & Smith, 1978; Resh & Mendez, 2022);  
 OR (Peck & Smith, 1978; Schmid, 1981; Anderson, Cooper & Denning, 1982);  
 UT (Baumann & Unzicker, 1981);  
 WA (Peck & Smith, 1978; Schmid, 1981; Anderson & Wisseman, 1987;  
 Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013).
- Rhyacophila jewetti* Denning, 1954, OR;  
 CA (Resh & Sorg, 1978; Resh & Mendez, 2022);  
 OR (Denning, 1954; Schmid, 1970; Anderson, 1976; Anderson, Cooper, & Denning, 1982;  
 Anderson, Wisseman, & Courtney, 1984).
- Rhyacophila karila* Denning, 1948, CA;  
 CA (Denning, 1948; Denning, 1956; Schmid, 1970; Resh & Mendez, 2022).
- Rhyacophila kernada* Ross, 1950, CA;  
*Rhyacophila reana* Denning, 1971, CA (Peck & Smith, 1977);  
 female genitalia (Denning, 1965);  
 larval head, male & female genitalia (Peck & Smith, 1978);  
 CA (Ross, 1950; Schmid, 1970; Denning, 1971; Givens, 2014; Resh & Mendez, 2022);  
 MT (Roemhild, 1982);  
 NV (Denning, 1965; Schmid, 1970; Ruiter, Baumann, & Flint, 2014).
- Rhyacophila kiamichi* Ross, 1944, OK;  
 larva (Flint, 1962);  
 male genitalia (Schmid, 1970);  
 AR (Flint, 1962; Board, 1987; Bowles & Mathis, 1989; Moulton & Stewart, 1996;  
 Prather, Syrett, & Morse, 1997; Prather & Morse, 2001; Etnier, 2010;  
 Bowles, Cheri, Usrey, & Williams, 2020);  
 MO (Moulton & Stewart, 1996; Ferro & Sites, 2007; Etnier, 2010;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OK (Ross, 1944; Schmid, 1970; Bowles & Mathis, 1992; Moulton & Stewart, 1996;  
 Prather, Syrett, & Morse, 1997; Prather & Morse, 2001).
- Rhyacophila kincaidi* Schmid, 1970, BC;  
*Rhyacophila kincaidi* Ross, 1956, nomen nudum (Schmid, 1970);  
 male & female genitalia (Schmid, 1981);  
 AK (Schmid, 1981; Vineyard, 1982);  
 BC (Schmid, 1970; Nimmo & Scudder, 1978; Schmid, 1981;  
 Nimmo & Scudder, 1983; Lonsdale, 2020);  
 OR (Anderson, 1976);  
 WA (Schmid, 1981; Anderson & Wisseman, 1987;  
 Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013).
- Rhyacophila kondratieffi* Parker, 1986, VA;  
 NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 VA (Parker, 1986; Prather, Syrett, & Morse, 1997; Prather & Morse, 2001;  
 Flint, Hoffman, & Parker, 2004).
- Rhyacophila latitergum* Davis, 1950, WA;

- male genitalia (Schmid, 1970; Schmid, 1981);  
WA (Davis, 1950; Schmid, 1970; Blinn & Ruiter, 2013).
- Rhyacophila ledra* Ross, 1939, TN;  
male genitalia (Schmid, 1970);  
northeast Nearctic (Schmid, 1970);  
AL (Harris, Lago, & O'Neil, 1984; Harris, 1987; Harris & Lago, 1990;  
Frazer, Harris, & Ward, 1991; Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996;  
Prather, Syrett, & Morse, 1997; Hicks & Haynes, 2000a; Zhou et al., 2011);  
DE (Lake, 1984; Moulton & Stewart, 1996; Prather, Syrett, & Morse, 1997);  
GA (Denning, 1948; Moulton & Stewart, 1996; Prather, Syrett, & Morse, 1997);  
IL (Ross, 1944; Moulton & Stewart, 1996; Prather, Syrett, & Morse, 1997;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996; Prather, Syrett, & Morse, 1997;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
KY (Resh, 1975; Moulton & Stewart, 1996; Prather, Syrett, & Morse, 1997;  
Etnier, Bauer, & Zirkle, 2006; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MI (tentative identification, Ellis, 1962; Moulton & Stewart, 1996; Prather, Syrett, & Morse, 1997;  
Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MO (Bowles, 2020;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MS (Etnier, 2010);  
NC (Schmid, 1970; Lenat, 1983; Lenat & Penrose, 1987; Moulton & Stewart, 1996;  
Prather, Syrett, & Morse, 1997; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
OH (Denning, 1950; Huryn & Foote, 1983; Usis & MacLean, 1986; Garono & MacLean, 1988;  
Moulton & Stewart, 1996; Prather, Syrett, & Morse, 1997; Armitage et al., 2011;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
PA (Weaver & Sykora, 1979; Masteller & Flint, 1992; Moulton & Stewart, 1996;  
Prather, Syrett, & Morse, 1997);  
SC (Floyd, Morse, & Harris, 1997);  
TN (Ross, 1939; Edwards, 1966; Moulton & Stewart, 1996; Prather, Syrett, & Morse, 1997;  
Etnier, Baxter, Fraley, & Parker, 1998; Zhou et al., 2011);  
VA (Prather & Morse, 2001; Flint, Hoffman, & Parker, 2004; Flint, 2011);  
WV (Applin & Tarter, 1977; Tarter, 1990; Moulton & Stewart, 1996;  
Prather, Syrett, & Morse, 1997; Tarter & Floyd, 2016).
- Rhyacophila leechi* Denning, 1975, CA;  
CA (Denning, 1975; Lee & Ruiter, 2010; Resh & Mendez, 2022).
- Rhyacophila lineata* Denning, 1956, CA;  
*Rhyacophila balosa* Denning, 1989, CA (Lee & Ruiter, 2010);  
male genitalia (Lee & Ruiter, 2010);  
CA (Denning, 1956; Schmid, 1970; Lee & Ruiter, 2010; Resh & Mendez, 2022).
- Rhyacophila lobifera* Betten, 1934, IL;  
male genitalia (Schmid, 1970);  
central United States (Schmid, 1970);  
photos of head, prothorax, & anal proleg (Fusaro, McCulloch, Petrella, & Willis, 2019);  
AR (Moulton & Stewart, 1996);  
IL (Betten, 1934; Ross, 1944; Hamilton & Schuster, 1979; Moulton & Stewart, 1996;  
Prather, Syrett, & Morse, 1997; Robinson & Parker, 2019;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
IN (Ross, 1944; Waltz & McCafferty, 1983; Hamilton & Schuster, 1979;  
Moulton & Stewart, 1996; Prather, Syrett, & Morse, 1997; Robinson & Parker, 2019;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
KS (Hamilton & Schuster, 1979; Moulton & Stewart, 1996; Prather, Syrett, & Morse, 1997;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

- KY (Resh, 1975; Hamilton & Schuster, 1979; Floyd & Schuster, 1990; Moulton & Stewart, 1996; Prather, Syrett, & Morse, 1997; Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Robinson & Parker, 2019; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MI (Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018; Fusaro, McCulloch, Petrella, & Willis, 2019; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MO (Moulton & Stewart, 1996; Ferro & Sites, 2007; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- OH (Ross, 1944; Hamilton & Schuster, 1979; Hurn & Foote, 1983; Usis & MacLean, 1986; Moulton & Stewart, 1996; Prather, Syrett, & Morse, 1997; Prather & Morse, 2001; Armitage et al., 2011; Robinson & Parker, 2019; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- OK (Ross, 1944; Hamilton & Schuster, 1979; Bowles & Mathis, 1992; Moulton & Stewart, 1996; Prather, Syrett, & Morse, 1997);
- ON (Williams & Hynes, 1976; Moulton & Stewart, 1996; Prather, Syrett, & Morse, 1997);
- PA (Weaver & Sykora, 1979; Masteller & Flint, 1992; Moulton & Stewart, 1996; Prather, Syrett, & Morse, 1997);
- TN (Edwards, 1966; Etnier & Schuster, 1979; Hamilton & Schuster, 1979; Moulton & Stewart, 1996; Prather, Syrett, & Morse, 1997; Etnier, Baxter, Fraley, & Parker, 1998; Etnier, Bauer, & Zirkle, 2006; Robinson & Parker, 2019);
- WI (Hilsenhoff, 1995; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- WV (Applin & Tarter, 1977; Hamilton & Schuster, 1979; Tarter, 1990; Moulton & Stewart, 1996; Prather, Syrett, & Morse, 1997; Tarter & Floyd, 2016).
- Rhyacophila lurella* Denning, 1975, CA;  
CA (Denning, 1975; Resh & Mendez, 2022).
- Rhyacophila mainensis* Banks, 1911, ME;  
nomen dubium (Ross, 1944; Schmid, 1970; Schmid, 1981);  
*Rhyacophila melita* Ross, 1938, MI (Weaver, 1990);  
male genitalia (Ross, 1956; Marshall & Larson, 1982);  
male & female genitalia (Schmid, 1981);  
northcentral and east Nearctic (Schmid, 1970);  
MA (Neves, 1979);  
ME (Banks, 1911; Blickle & Morse, 1966; Mingo & Gibbs, 1979; Bilger, 1986);  
MI (Ross, 1938; Leonard & Leonard, 1949; Ellis, 1962; Schmid, 1981; Houghton, 2016; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- NB (Zhou et al., 2011);  
NF (Marshall & Larson, 1982);  
NH (Flint, 1962; Schmid, 1981);  
NJ (Weaver & Sykora, 1979);  
NY (Flint, 1962; Schmid, 1981; Bilger, 1986; Myers, Kondratieff, Mihuc, & Ruitter, 2011);  
ON (Martin & Mackay, 1983; Martin, 1985);  
PA (Masteller & Flint, 1992; Prather & Morse, 2001);  
QC (Corbet, Schmid, & Augustin, 1966; Nimmo, 1966; Roy & Harper, 1979; Williams & Williams, 1979; Schmid, 1981);  
VA (Flint, Hoffman, & Parker, 2008; Zhou et al., 2011);  
VT (Roback, 1975; Wimmer, 1979; Bilger, 1986);  
WV (Applin & Tarter, 1977; Tarter, 1990; Tarter & Floyd, 2016).
- Rhyacophila malkini* Ross, 1947, OR;  
male & female genitalia (Schmid, 1970; Schmid, 1981);  
female genitalia (Denning, 1975);  
BC (Schmid, 1970; Nimmo & Scudder, 1978; Schmid, 1981);

- CA (Resh & Mendez, 2022);  
 OR (Ross, 1947; Schmid, 1970; Denning, 1975; Anderson, 1976; Schmid, 1981).
- Rhyacophila manistee* Ross, 1938, MI;  
 larva (Flint, 1962);  
 male genitalia (Schmid, 1981, female genitalia also described);  
 northcentral and east Nearctic (Schmid, 1970);  
 CT (Prather & Morse, 2001);  
 ME (Mingo & Gibbs, 1979; Bilger, 1986; Huryn & Harris, 2000);  
 MI (Ross, 1938; Leonard & Leonard, 1949; Ellis, 1962; Schmid, 1981; Houghton, 2016;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NH (Flint, 1962; Schmid, 1981);  
 NY (Flint, 1962; Schmid, 1981; Myers, Kondratieff, Mihuc, & Ruitter, 2011);  
 ON (Schmid, 1981);  
 PA (Weaver & Sykora, 1979; Masteller & Flint, 1992);  
 VA (Flint, Hoffman, & Parker, 2004).
- Rhyacophila milnei* Ross, 1950, AB;  
 male & female genitalia (Schmid, 1970; Schmid, 1981);  
 male genitalia (Nimmo, 1971; Lee & Giersch, 2014);  
 female genitalia (Nimmo, 1977);  
 AB (Ross, 1950; Schmid, 1970; Nimmo, 1971; Nimmo, 1977;  
 Schmid, 1981);  
 BC (Nimmo & Scudder, 1983).
- Rhyacophila minora* Banks, 1924, NH;  
 male genitalia (Ross, 1956);  
 larva (Flint, 1962);  
 larva (Roback, 1975);  
 male & female genitalia (Schmid, 1981);  
 east Nearctic (Schmid, 1970);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris, O'Neil, & Lago, 1991; Prather, Syrett, & Morse, 1997);  
 CT (Nelson & Downs, 1995);  
 KY (Resh, 1975; Prather, Syrett, & Morse, 1997;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Flint, 1962; Neves, 1979; Schmid, 1981; Prather, Syrett, & Morse, 1997);  
 ME (Flint, 1962; Schmid, 1981; Bilger, 1986; Prather, Syrett, & Morse, 1997);  
 NC (Flint, 1962; Schmid, 1981; Armitage & Tennesen, 1984; Huryn & Wallace, 1987;  
 Huryn & Wallace, 1988; Morse, Hamilton, & Hoffman, 1989;  
 Prather, Syrett, & Morse, 1997; Prather & Morse, 2001;  
 Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);  
 NF (Marshall & Larson, 1982; Prather, Syrett, & Morse, 1997);  
 NH (Banks, 1924; Morse & Blickle, 1953; Schmid, 1981; Prather, Syrett, & Morse, 1997);  
 NS (Flint, 1962; Schmid, 1981; Prather, Syrett, & Morse, 1997);  
 NY (Betten, 1934; Schmid, 1981; Prather, Syrett, & Morse, 1997;  
 Myers, Kondratieff, Mihuc, & Ruitter, 2011; Tozer, 2018);  
 OH (Huryn & Foote, 1981; Huryn & Foote, 1983; Prather, Syrett, & Morse, 1997;  
 Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Singh, Smith, & Harrison, 1984a; Singh, Smith, & Harrison, 1984b;  
 Prather, Syrett, & Morse, 1997);  
 PA (Masteller & Flint, 1979; Weaver & Sykora, 1979; Masteller & Flint, 1992;  
 Prather, Syrett, & Morse, 1997);  
 QC (Robert, 1958; Roy & Harper, 1975; Roy & Harper, 1979; Harper, 1989;  
 Prather, Syrett, & Morse, 1997);

- SC (Flint, 1962; Schmid, 1981; Manuel & Folsom, 1982; Morse, Hamilton, & Hoffman, 1989; Floyd & Morse, 1993; Prather, Syrett, & Morse, 1997; Floyd, Morse, & Harris, 1997; Prather & Morse, 2001);
- TN (Etnier & Schuster, 1979; Prather, Syrett, & Morse, 1997; Etnier, Baxter, Fraley, & Parker, 1998);
- VA (Parker & Voshell, 1981; Prather, Syrett, & Morse, 1997; Flint, Hoffman, & Parker, 2004; Zhou et al., 2011);
- VT (Wimmer, 1979; Schmid, 1981; Prather, Syrett, & Morse, 1997);
- WV (Roback, 1975; Applin & Tarter, 1977; Tarter, 1990; Prather, Syrett, & Morse, 1997; Tarter & Floyd, 2016).
- Rhyacophila mongolica* Schmid, Arefina and Levanidova, 1993, Russia;  
male genitalia (Wiggins & Parker, 1997);  
photos of larva, anal proleg (Ruiter, Boyle, & Zhou, 2013);  
AK (Kendrick & Huryn, 2014);  
MB (Ruiter, Boyle, & Zhou, 2013);  
YT (Wiggins & Parker, 1997).
- Rhyacophila montana* Carpenter, 1933, TN;  
male genitalia (Schmid, 1970);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
NC (Carpenter, 1933; Schmid, 1970; Prather, Syrett, & Morse, 1997; Morse et al, 1997; Prather & Morse, 2001; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
TN (Carpenter, 1933; Schmid, 1970; Prather, Syrett, & Morse, 1997; Morse et al, 1997; Etnier, Baxter, Fraley, & Parker, 1998).
- Rhyacophila mosana* Denning, 1965, CA  
doubtful or insufficiently known species (Schmid, 1970);  
CA (Denning, 1965; Lee & Ruiter, 2010; Resh & Mendez, 2022).
- Rhyacophila mycta* Ross, 1941, NC;  
female (Etnier, Parker, & Stocks, 2004);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
NC (Ross, 1941; Denning, 1948; Schmid, 1970; Prather, Syrett, & Morse, 1997; Morse et al, 1997; Prather & Morse, 2001; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);  
SC (Biondi, 2011);  
TN (Etnier & Schuster, 1979; Etnier, Baxter, Fraley, & Parker, 1998);  
VA (Flint, Hoffman, & Parker, 2004; Zhou et al., 2011).
- Rhyacophila narvae* Navás, 1926, Siberia;  
*Rhyacophila vepulsa* Milne, 1936, OR (Schmid, 1970; Schmid, 1981; Nimmo & Scudder, 1978);  
male genitalia (Denning, 1948);  
larva (Lepneva, 1964/70);  
larva (Smith, 1968);  
wings, male & female genitalia (Nimmo, 1971);  
male & female genitalia (Schmid, 1981);  
AK to CA to MT (Nimmo, 1971);  
AB (Nimmo, 1971; Schmid, 1981);  
AK (Smith, 1968; Nimmo, 1971; Ellis, 1978; Schmid, 1981; Vineyard, 1982);  
BC (Milne, 1936; Ross & Spencer, 1952; Smith, 1968; Nimmo, 1971; Nimmo & Scudder, 1978; Schmid, 1981; Nimmo & Scudder, 1983);  
CA (Denning, 1948; Smith, 1968; Nimmo, 1971; Schmid, 1981; McElravy & Resh, 1987; Resh & Mendez, 2022);  
ID (Smith, 1968; Nimmo, 1971; Newell & Minshall, 1977; Schmid, 1981);  
MT (Smith, 1968; Newell, 1970; Nimmo, 1971; Newell & Potter, 1973; Schmid, 1981; Roemhild, 1982);  
OR (Milne, 1936; Anderson, 1967; Smith, 1968; Nimmo, 1971; Anderson & Wold, 1972);

- Anderson, 1976; Schmid, 1981; Anderson, Cooper & Denning, 1982;  
Anderson, Wisseman, & Courtney, 1984; Anderson & Hansen, 1987);  
WA (Smith, 1968; Thut, 1969; Nimmo, 1971; Schmid, 1981; Smith, 1981;  
Anderson & Wisseman, 1987; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005;  
Blinn & Ruiter, 2013; Morley, Foley, Duda et al, 2020);  
WY (Ruiter, 1999);  
YT (Schmid, 1981; Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997);  
Siberia (Navás, 1926);  
Amur region, Maritime Territory (Lepneva, 1964/70).
- Rhyacophila neograndis* Denning, 1948, CA;  
larva (Smith, 1984);  
CA (Denning, 1948; Denning, 1956; Schmid, 1970; Resh & Mendez, 2022).
- Rhyacophila nevadensis* Banks, 1924, NV;  
male genitalia (Schmid, 1970);  
male & female genitalia (Denning, 1975);  
CA (Denning, 1956; Denning, 1975; Schmid, 1970; Erman, 1989; Givens, 2014;  
Resh & Mendez, 2022);  
CO (Banks, 1924; Dodds & Hisaw, 1925);  
NV (Banks, 1924; Schmid, 1970; Denning, 1975; Ruiter, Baumann, & Flint, 2014).
- Rhyacophila newelli* Denning, 1971, MT;  
MT (Newell, 1970; Denning, 1971; Newell & Potter, 1973;  
Roemhild, 1982).
- Rhyacophila nigrita* Banks, 1907, NC;  
larva (Flint, 1962);  
male genitalia (Schmid, 1970);  
male & female genitalia (Schmid, 1981);  
female (Etnier, Parker, & Stocks, 2004);  
east Nearctic (Schmid, 1970);  
NC/SC (Unzicker, Resh, & Morse, 1982);  
AL (Harris, 1987; Harris & Lago, 1990; Harris, O'Neil, & Lago, 1991;  
Prather, Syrett, & Morse, 1997);  
GA (Flint, 1962; Prather, Syrett, & Morse, 1997; Prather & Morse, 2001);  
KY (Harris, O'Neil, & Lago, 1991; Prather, Syrett, & Morse, 1997;  
Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
MA (Neves, 1979; Prather, Syrett, & Morse, 1997);  
ME (Mingo & Gibbs, 1979; Bilger, 1986; Prather, Syrett, & Morse, 1997);  
NC (Banks, 1907; Schmid, 1981; Penrose, Lenat, & Eagleson, 1982;  
Armitage & Tennesen, 1984; Huryn & Wallace, 1987; Huryn & Wallace, 1988;  
Morse, Hamilton, & Hoffman, 1989; Prather, Syrett, & Morse, 1997;  
Floyd, Morse, & Harris, 1997; Prather & Morse, 2001;  
DeWalt, Jacobus, & McCafferty, 2007;  
Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);  
NF (Marshall & Larson, 1982; Prather, Syrett, & Morse, 1997);  
NH (Banks, 1907; Prather, Syrett, & Morse, 1997);  
NJ (Weaver & Sykora, 1979; Prather, Syrett, & Morse, 1997;  
Mendez, Spagna, Holzenthal, & Houghton, 2019);  
NY (Banks, 1907; Schmid, 1981; Prather, Syrett, & Morse, 1997; Prather & Morse, 2001;  
Myers, Kondratieff, Mihuc, & Ruiter, 2011; Tozer, 2018);  
ON (Schmid, 1981; Prather, Syrett, & Morse, 1997);  
PA (Ross, 1941; Hyland, 1948; Weaver & Sykora, 1979; Masteller & Flint, 1980;  
Masteller & Flint, 1992; Prather, Syrett, & Morse, 1997; Prather & Morse, 2001);  
QC (Harris, O'Neil, & Lago, 1991; Prather, Syrett, & Morse, 1997; Prather & Morse, 2001);  
SC (Manuel & Folsom, 1982; Morse, Hamilton, & Hoffman, 1989; Floyd & Morse, 1993;  
Prather, Syrett, & Morse, 1997; Floyd, Morse, & Harris, 1997; Prather & Morse, 2001);



- TN (Flint, 1962; Etnier & Schuster, 1979; Schmid, 1981; Prather, Syrett, & Morse, 1997; Etnier, Baxter, Fraley, & Parker, 1998; Prather & Morse, 2001; DeWalt & Heinold, 2005);
- VA (Roback, 1975; Parker & Voshell, 1981; Prather, Syrett, & Morse, 1997; Prather & Morse, 2001; Flint, Hoffman, & Parker, 2004);
- VT (Wimmer, 1979; Prather, Syrett, & Morse, 1997);
- WV (Roback, 1975; Applin & Tarter, 1977; Tarter, 1990; Griffith & Perry, 1992; Prather, Syrett, & Morse, 1997; Prather & Morse, 2001; Tarter & Floyd, 2016).
- Rhyacophila norcuta* Ross, 1938, WA;  
*Rhyacophila novarotunda* Ling, 1938 (Ross, 1944);  
 male genitalia (Schmid, 1970);  
 male & female genitalia (Schmid, 1981);  
 BC to CA (Anderson, 1976);  
 west Nearctic (Schmid, 1970);  
 BC (Ross & Spencer, 1952; Schmid & Guppy, 1952; Hardy, 1955; Anderson, 1976; Nimmo & Scudder, 1978; Schmid, 1981);  
 CA (Denning, 1948; Denning, 1956; Anderson, 1976; Schmid, 1981; Resh & Mendez, 2022);  
 ID (Smith, 1968, record doubtful; Schmid, 1981);  
 IL (Denning, 1948);  
 OR (Ling, 1938; Denning, 1948; Anderson, 1976; Schmid, 1981; Anderson, Wisseman, & Courtney, 1984; Anderson & Hansen, 1987; Anderson, 1997);  
 WA (Ross, 1938; Ling, 1938; Ross, 1941; Schmid, 1981; Anderson, & Wisseman, 1987; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013).
- Rhyacophila ophrys* Ross, 1948, MT;  
*Rhyacophila simplex* Nimmo, 1977, AB (Schmid, 1981);  
 male genitalia (Schmid, 1970; Schmid, 1981);  
 AB (Nimmo, 1977; Schmid, 1981; Lonsdale, 2020);  
 MT (Ross, 1948; Newell, 1970; Schmid, 1970; Schmid, 1981).
- Rhyacophila oreia* Ross, 1947, WY;  
 male genitalia (Ross, 1956);  
 larva (Wold, 1974);  
 ID (Smith, 1968);  
 WY (Ross, 1947; Schmid, 1970; Ruiter & Lavigne, 1985).
- Rhyacophila oreta* Ross, 1941, UT;  
 [possibly a synonym of *R. basalis* Banks, 1911, according to Schmid, 1970, 1981]  
 larva (Smith, 1968; Wold, 1974);  
 male genitalia (Schmid, 1970);  
 male & female genitalia (Schmid, 1981);  
 BC to CA to UT to WY (Wold, 1974);  
 west Nearctic (Schmid, 1970);  
 AB (Schmid, 1981);  
 BC (Ross & Spencer, 1952; Schmid & Guppy, 1952; Smith, 1968; Nimmo & Scudder, 1978; Schmid, 1981);  
 CA (Denning, 1948; Denning, 1956; Smith, 1968; Schmid, 1981; Erman, 1989; Erman & Erman, 1990; Erman, 1998; Resh & Mendez, 2022);  
 CO (Canton & Chadwick, 1983);  
 ID (Smith, 1968; Schmid, 1981);  
 MT (Roemhild, 1982; Stagliano, 2008);  
 NV (Ruiter, Baumann, & Flint, 2014);  
 OR (Ross, 1941; Anderson, 1967; Anderson, 1976; Smith, 1968; Schmid, 1981; Anderson, Cooper, & Denning, 1982; Anderson, Wisseman, & Courtney, 1984);  
 UT (Ross, 1941; Smith, 1968; Schmid, 1981; Baumann & Unzicker, 1981);  
 WA (Smith, 1968; Schmid, 1981; Anderson & Wisseman, 1987; Blinn & Ruiter, 2013);  
 WY (Smith, 1968; Wold, 1974; Schmid, 1981);

- Ruiter & Lavigne, 1985; Ruiter, 1996).
- Rhyacophila otica Etnier and Way, 1973, TN;  
 Rhyacophila pennsylvanica Sykora & Weaver, 1976, PA (Weaver & Sykora, 1979);  
 KY (Resh, 1975; Prather, Syrett, & Morse, 1997;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 PA (Weaver & Sykora, 1979; Masteller & Flint, 1992; Prather, Syrett, & Morse, 1997);  
 TN (Etnier & Way, 1973; Prather, Syrett, & Morse, 1997; Etnier, Baxter, Fraley, & Parker, 1998;  
 Flint, Hoffman, & Parker, 2004);  
 WV (Tarter & Floyd, 2016).
- ? Rhyacophila pacifica Banks, 1895, WA;  
 nomen dubium (Schmid, 1970; Schmid, 1981);  
 WA (Banks, 1895).
- Rhyacophila parantra Ross, 1948, IN;  
 IN (Ross, 1948; Schmid, 1970; Waltz & McCafferty, 1983; Prather, Syrett, & Morse, 1997;  
 Prather & Morse, 2001;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Resh, 1975; Phillippi & Schuster, 1987; Prather, Syrett, & Morse, 1997;  
 Prather & Morse, 2001; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Ruiter, 2000;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 OH (Huryn & Foote, 1981; Huryn & Foote, 1983; Prather, Syrett, & Morse, 1997;  
 Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979; Prather, Syrett, & Morse, 1997);  
 TN (Etnier & Schuster, 1979; Prather, Syrett, & Morse, 1997;  
 Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Parker & Voshell, 1981; Prather, Syrett, & Morse, 1997; Flint, Hoffman, & Parker, 2004);  
 WV (Tarter & Floyd, 2016).
- Rhyacophila pellisa Ross, 1938, CO;  
 Rhyacophila doddsi Ling, 1938 (Ross, 1944);  
 wings, male & female genitalia (Nimmo, 1971);  
 male & female genitalia (Schmid, 1981);  
 AB to CO to CA (Nimmo, 1971);  
 west Nearctic (Schmid, 1970);  
 AB (Smith, 1968; Nimmo, 1971; Schmid, 1981);  
 BC (Nimmo & Scudder, 1978; Schmid, 1981; Nimmo & Scudder, 1983);  
 CA (Denning, 1956; Smith, 1968; Nimmo, 1971; Schmid, 1981; McElravy & Resh, 1987;  
 Givens, 2014; Resh & Mendez, 2022);  
 CO (Ross, 1938; Ling, 1938; Denning, 1948; Smith, 1968; Nimmo, 1971; Ward, 1981;  
 Schmid, 1981; Herrmann, Ruiter, & Unzicker, 1986;  
 DeWalt, Stewart, Moulton, & Kennedy, 1994; Ruiter, 1996; Ruse & Herrmann, 2000;  
 Zuellig, Kondratieff, Ruiter, & Thorp, 2006;  
 Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 ID (Smith, 1968; Nimmo, 1971; Newell & Minshall, 1977; Schmid, 1981);  
 MT (Nimmo, 1971; Roemhild, 1982);  
 NM (Ruiter, 1999);  
 NV (Ruiter, Baumann, & Flint, 2014);  
 OR (Anderson, 1967; Anderson, 1976; Smith, 1968; Nimmo, 1971; Anderson & Wold, 1972;  
 Schmid, 1981; Anderson, Cooper, & Denning, 1982);  
 UT (Smith, 1968; Nimmo, 1971; Schmid, 1981; Baumann & Unzicker, 1981);  
 WA (Smith, 1968; Nimmo, 1971; Schmid, 1981;  
 Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013);  
 WY (Ling, 1938; Denning, 1948; Smith, 1968; Nimmo, 1971; Schmid, 1981);

- Ruiter & Lavigne, 1985);  
 YT (Schmid, 1981; Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997).
- Rhyacophila perda* Ross, 1938, WA;  
 male & female genitalia (Schmid, 1981);  
 BC to OR (Wold, 1974; Anderson, 1976);  
 west Nearctic (Schmid, 1970);  
 BC (Ross & Spencer, 1952; Nimmo & Scudder, 1978; Schmid, 1981);  
 OR (Ross & Spencer, 1952; Anderson, 1976; Schmid, 1981;  
 Anderson, Cooper, & Denning, 1982;  
 Anderson, Wisseman, & Courtney, 1984);  
 WA (Ross, 1938; Ross & Spencer, 1952; Anderson & Wisseman, 1987;  
 Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013).
- Rhyacophila perplana* Ross & Spencer, 1952, BC;  
 male & female genitalia (Schmid, 1981);  
 BC (Ross & Spencer, 1952; Schmid, 1970; Schmid, 1981);  
 OR (Anderson, 1976);  
 WA (Smith, 1981; Blinn & Ruiter, 2013).
- ? *Rhyacophila pichaca* Denning, 1956, OR;  
 doubtful or insufficiently known species (Schmid, 1970);  
 OR (Denning, 1956);  
 WA (Denning, 1956).
- Rhyacophila potteri* Denning, 1971, ID (in Denning & Schmid, 1971) ;  
*Rhyacophila autumnalis* Nimmo, 1977, AB (synonymized by Giersch in Lonsdale, 2020);  
 male genitalia (Schmid, 1981);  
 AB (Nimmo, 1977; Schmid, 1981; Lonsdale, 2020);  
 ID (Denning, 1971).
- Rhyacophila rayneri* Ross, 1951, Baja California;  
 CA (Denning, 1957; Resh & Mendez, 2022);  
 Baja California (Ross, 1951).
- Rhyacophila reyesi* Denning, 1989, CA;  
 CA (Denning, 1989; Resh & Mendez, 2022).
- Rhyacophila rickeri* Ross, 1956, BC;  
 male genitalia (Schmid, 1970);  
 male & female genitalia (Schmid, 1981);  
 wings, male & female genitalia (Nimmo, 1971);  
 AB (Schmid, 1970; Nimmo, 1971; Schmid, 1981);  
 AK (Schmid, 1970; Nimmo, 1971; Ellis, 1978; Schmid, 1981; Vineyard, 1982);  
 BC (Ross, 1956; Schmid, 1970; Nimmo, 1971; Schmid, 1981)  
 WA (Blinn & Ruiter, 2013).
- Rhyacophila robusta* Schmid, 1970, BC;  
 male genitalia (Schmid, 1981);  
 AB (Schmid, 1970; Schmid, 1981);  
 BC (Schmid, 1970; Schmid, 1981; Lonsdale, 2020);  
 MT (Roemhild, 1982).
- Rhyacophila rotunda* Banks, 1924, NV;  
 larva (Smith, 1968);  
 male genitalia (Schmid, 1970);  
 male & female genitalia (Schmid, 1981);  
 west Nearctic (Schmid, 1970);  
 AZ (Schmid, 1981; Ruiter, 1996; Houghton, 2001; Blinn & Ruiter, 2006);  
 CA (Denning, 1948; Denning, 1956; Smith, 1968; Baumann & Unzicker, 1981; Schmid, 1981;  
 Erman, 1989; Erman & Erman, 1990; Givens, 2014; Resh & Mendez, 2022);  
 CO (Smith, 1968; Schmid, 1981; Herrmann, Ruiter, & Unzicker, 1986);  
 ID (Smith, 1968; Schmid, 1981);  
 MT (Stagliano, 2008);

- NV (Banks, 1924; Smith, 1968; Schmid, 1981; Ruiter, Baumann, & Flint, 2014);  
 UT (Denning, 1948; Smith, 1968; Schmid, 1981;  
     Baumann & Unzicker, 1981)  
 WA (Blinn & Ruiter, 2013).
- Rhyacophila sequoia* Denning, 1950, CA  
 CA (Denning, 1950; Schmid, 1970; Givens, 2014; Resh & Mendez, 2022).
- Rhyacophila shenandoahensis* Flint, 1958, VA  
 larva (Flint, 1962);  
 male genitalia (Schmid, 1970);  
 ON (Singh, Smith, & Harrison, 1984a; Prather, Syrett, & Morse, 1997);  
 VA (Flint, 1958; Schmid, 1970; Prather, Syrett, & Morse, 1997;  
     Prather & Morse, 2001; Flint, Hoffman, & Parker, 2004).
- Rhyacophila sierra* Denning, 1968, CA  
 male genitalia (Peck & Smith, 1978);  
 CA (Denning, 1968; Peck & Smith, 1978; McElravy & Resh, 1987; Resh & Mendez, 2022).
- Rhyacophila simmonsii* Armitage, 2008, VA;  
 VA (Armitage, 2008; Flint, Hoffman, & Parker, 2009).
- Rhyacophila siskiyou* Denning, 1975, CA;  
 CA (Denning, 1975; Resh & Mendez, 2022).
- ? *Rhyacophila soror* Provancher, 1878, Canada;  
 nomen dubium (Roy & Harper, 1979; Schmid, 1970; Schmid, 1981);  
 Canada (Provancher, 1878);  
 QC (Ross, 1944; Roy & Harper, 1979).
- Rhyacophila spinata* Denning, 1965, CA;  
 CA (Denning, 1965; Schmid, 1970; Fields, 1981; Resh & Mendez, 2022).
- Rhyacophila starki* Smith & Weaver, 1984, OR;  
 CA (Smith & Weaver, 1984; Resh & Mendez, 2022);  
 OR (Smith & Weaver, 1984).
- Rhyacophila tamalpaisi* Denning, 1975, CA;  
 CA (Denning, 1975; Resh & Mendez, 2022).
- Rhyacophila teddyi* Ross, 1939, TN;  
 male genitalia (Schmid, 1970; Sykora & Weaver, 1976);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris & Lago, 1990; Harris, 1990;  
     Harris, O'Neil, & Lago, 1991;  
     Prather, Syrett, & Morse, 1997);  
 GA (Prather & Morse, 2001);  
 NC (Ross, 1939; Schmid, 1970; Morse, Hamilton, & Hoffman, 1989;  
     Prather, Syrett, & Morse, 1997; Prather & Morse, 2001;  
     DeWalt, Jacobus, & McCafferty, 2007;  
     Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);  
 SC (Morse, Hamilton, & Hoffman, 1989; Floyd & Morse, 1993;  
     Prather, Syrett, & Morse, 1997);  
 TN (Ross, 1939; Schmid, 1970; Prather, Syrett, & Morse, 1997;  
     Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005);  
 VA (Flint, Hoffman, & Parker, 2004).
- Rhyacophila tehama* Denning, 1975, CA;  
 CA (Denning, 1975; Resh & Mendez, 2022).
- Rhyacophila torva* Hagen, 1861, DC;  
*Rhyacophila terminata* Banks, 1907 (Fischer, 1960);  
*Rhyacophila vinura* Milne, 1936 (Ross, 1944);  
 male genitalia (Schmid, 1970);  
 male & female genitalia (Schmid, 1981);  
 east Nearctic (Schmid, 1970);  
 NC/SC (Unzicker, Resh, & Morse, 1982);

- AL (Harris & Lago, 1990; Harris, O'Neil, & Lago, 1991; Prather, Syrett, & Morse, 1997; Hicks & Haynes, 2000a);
- CT (Nelson & Downs, 1995);
- DC (Hagen, 1861; Schmid, 1981; Prather, Syrett, & Morse, 1997);
- DE (Lake, 1984; Prather, Syrett, & Morse, 1997);
- KY (Resh, 1975; Prather, Syrett, & Morse, 1997; Zhou et al., 2011; Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MA (Denning, 1948; Schmid, 1981; Prather, Syrett, & Morse, 1997);
- ME (Johnson, 1927; Procter, 1946; Blickle & Morse, 1966; Schmid, 1981; Prather, Syrett, & Morse, 1997);
- NC (Carpenter, 1933; Milne, 1936; Schmid, 1981; Penrose, Lenat, & Eagleson, 1982; Armitage & Tennesen, 1984; Huryn & Wallace, 1987; Huryn & Wallace, 1988; Morse, Hamilton, & Hoffman, 1989; Prather, Syrett, & Morse, 1997; DeWalt, Jacobus, & McCafferty, 2007; Prather & Morse, 2001; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011; Myers, Kondratieff, Mihuc, & Ruiter, 2011);
- NF (Schmid, 1981; Marshall & Larson, 1982; Prather, Syrett, & Morse, 1997; Cordero, Sánchez-Ramírez, & Currie, 2017);
- NH (Denning, 1948; Schmid, 1981; Prather, Syrett, & Morse, 1997);
- NJ (Smith, 1900; Smith, 1910; Banks, 1907; Schmid, 1981; Prather, Syrett, & Morse, 1997);
- NS (Schmid, 1981; Prather, Syrett, & Morse, 1997);
- NY (Hagen, 1861; Banks, 1907; Roback, 1975; Schmid, 1981; Prather, Syrett, & Morse, 1997; Zhou et al., 2011; Myers, Kondratieff, Mihuc, & Ruiter, 2011);
- OH (McElravy, Arsuffi, & Foote, 1977; Huryn & Foote, 1983; Prather, Syrett, & Morse, 1997; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- PA (Weaver & Sykora, 1979; Masteller & Flint, 1992; Prather, Syrett, & Morse, 1997);
- QC (Roy & Harper, 1975; Roy & Harper, 1979; Schmid, 1981; Prather, Syrett, & Morse, 1997);
- SC (Schmid, 1981; Morse, Hamilton, & Hoffman, 1989; Floyd & Morse, 1993; Prather, Syrett, & Morse, 1997; Floyd, Morse, & Harris, 1997; Prather & Morse, 2001; Zhou et al., 2011);
- TN (Carpenter, 1933; Edwards, 1966; Etnier & Schuster, 1979; Schmid, 1981; Prather, Syrett, & Morse, 1997; Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005; DeWalt, Jacobus, & McCafferty, 2007; Zhou et al., 2011);
- VA (Denning, 1948; Schmid, 1981; Parker & Voshell, 1981; Prather, Syrett, & Morse, 1997; Flint, Hoffman, & Parker, 2004; Zhou et al., 2011);
- VT (Roback, 1975; Wimmer, 1979; Prather, Syrett, & Morse, 1997);
- WI (Vorhies, 1909; Prather, Syrett, & Morse, 1997);
- WV (Roback, 1975; Applin & Tarter, 1977; Prather, Syrett, & Morse, 1997; Tarter & Floyd, 2016);
- WY (Muttkowski, 1929; Tarter, 1990; Prather, Syrett, & Morse, 1997).
- Rhyacophila tralala Schmid, 1970, WA;  
male & female genitalia (Schmid, 1981);
- OR (Schmid, 1970; Anderson, 1976; Schmid, 1981);
- WA (Schmid, 1970; Schmid, 1981; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013; Lonsdale, 2020).
- Rhyacophila tricornuta Sykora & McCabe, 1996, VA;  
NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
VA (Sykora & McCabe, 1996; Flint, Hoffman, & Parker, 2004).
- Rhyacophila tucula Ross, 1950, WY;  
larva (Smith, 1968; Wold, 1974);  
male genitalia (Schmid, 1970);  
wings, male & female genitalia (Nimmo, 1971);  
male & female genitalia (Schmid, 1981);

- west Nearctic (Schmid, 1970);  
 AB (Nimmo, 1971; Schmid, 1981);  
 AK (Smith, 1968; Nimmo, 1971; Schmid, 1981; Vineyard, 1982);  
 BC (Ross, 1950; Ross & Spencer, 1952; Smith, 1968; Nimmo, 1971;  
 Nimmo & Scudder, 1978; Schmid, 1981);  
 CA (Erman, 1989; Erman & Erman, 1990; Resh & Mendez, 2022);  
 CO (Ward, 1981; Ward, 1986);  
 ID (Smith, 1968; Nimmo, 1971; Schmid, 1981);  
 MT (Newell, 1970; Newell & Potter, 1973; Swegman & Ferrington, 1980; Roemhild, 1982);  
 OR (Ross, 1950; Anderson, 1967; Anderson, 1976; Smith, 1968; Nimmo, 1971; Schmid, 1981;  
 Anderson, Cooper, & Denning, 1982; Anderson, Wisseman, & Courtney, 1984);  
 SK (Schmid, 1981);  
 UT (Schmid, 1981);  
 WA (Ross, 1950; Smith, 1968; Nimmo, 1971; Schmid, 1981; Anderson & Wisseman, 1987;  
 Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013);  
 WY (Ross, 1950; Smith, 1968; Nimmo, 1971; Wold, 1974; Swegman & Ferrington, 1980;  
 Schmid, 1981; Ruiter & Lavigne, 1985);  
 YT (Wiggins & Parker, 1997).
- Rhyacophila unimaculata* Denning, 1941, BC;  
 male genitalia (Schmid, 1970);  
 male genitalia (Nimmo, 1977);  
 male & female genitalia (Schmid, 1981);  
 BC (Denning, 1941; Ross & Spencer, 1952; Schmid, 1970;  
 Nimmo, 1977; Schmid, 1981);  
 MT (Newell, 1970; Newell & Potter, 1973; Nimmo, 1977;  
 Roemhild, 1982).
- Rhyacophila unipunctata* Schmid, 1970, OR;  
 OR (Schmid, 1970; Anderson, 1976; Lonsdale, 2020).
- Rhyacophila vaccua* Milne, 1936, BC;  
*Rhyacophila complicata* Ling, 1938 (Ross, 1944);  
*Rhyacophila bruesi* Milne & Milne, 1940 (Ross, 1944);  
 larva (Smith, 1968; Wold, 1974);  
 male & female genitalia (Schmid, 1970; Schmid, 1981);  
 wings, male & female genitalia (Nimmo, 1971);  
 west Nearctic (Schmid, 1970);  
 AB (Milne, 1936; Milne & Milne, 1940; Smith, 1968; Nimmo, 1971;  
 Schmid, 1981);  
 AK (Ellis, 1978; Vineyard, 1982);  
 BC (Milne, 1936; Schmid, & Guppy, 1952; Ross & Spencer, 1952; Smith, 1968; Nimmo, 1971;  
 Nimmo & Scudder, 1978; Schmid, 1981);  
 CA (Denning, 1956; Smith, 1968; Nimmo, 1971; Schmid, 1981;  
 Leland, Fend, Carter, & Mahood, 1986; Erman, 1989; Erman & Erman, 1990;  
 Myers & Resh, 1999; Givens, 2014; Resh & Mendez, 2022);  
 ID (Smith, 1968; Nimmo, 1971; Newell & Minshall, 1977; Schmid, 1981);  
 MT (Smith, 1968; Newell, 1970; Nimmo, 1971;  
 Newell & Potter, 1973; Schmid, 1981; Roemhild, 1982);  
 OR (Milne, 1936; Ling, 1938; Milne, & Milne, 1940; Smith, 1968;  
 Nimmo, 1971; Anderson & Wold, 1972; Anderson, 1976;  
 Schmid, 1981; Anderson, Cooper, & Denning, 1982;  
 Anderson, Wisseman, & Courtney, 1984;  
 Anderson & Hansen, 1987);  
 WA (Smith, 1968; Thut, 1969; Nimmo, 1971; Schmid, 1981;  
 Smith, 1981; Anderson & Wisseman, 1987;  
 Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013);  
 WY (Nimmo, 1971; Swegman & Ferrington, 1980; Schmid, 1981; Ruiter & Lavigne, 1985);

- YT (Harris & Lawrence, 1978).
- Rhyacophila vaefes* Milne, 1936, BC;  
*Rhyacophila vujuna* Milne, 1936, OR (Ross, 1956);  
 male genitalia (Schmid, 1970);  
 male & female genitalia (Schmid, 1981);  
 BC to OR (Anderson, 1976);  
 BC (Milne, 1936; Ross & Spencer, 1952; Schmid & Guppy, 1952;  
 Schmid, 1970; Nimmo & Scudder, 1978; Schmid, 1981);  
 CA (Schmid, 1981);  
 OR (Milne, 1936; Denning, 1948; Anderson, 1967; Anderson, 1976; Schmid, 1970; Schmid, 1981;  
 Anderson, Cooper, & Denning, 1982; Anderson, Wisseman, & Courtney, 1984);  
 WA (Thut, 1969; Schmid, 1970; Schmid, 1981; Anderson & Wisseman, 1987;  
 Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013).
- Rhyacophila vagrita* Milne, 1936, BC;  
 larva (Smith, 1968; Wold, 1974);  
 wings, male & female genitalia (Nimmo, 1971);  
 male & female genitalia (Schmid, 1981);  
 male genitalia (Lee & Giersch, 2014);  
 AB to CA to UT to WY (Anderson, 1976);  
 AB (Milne, 1936; Nimmo, 1971; Schmid, 1981);  
 AK (Wold, 1974; Vineyard, 1982);  
 BC (Milne, 1936; Ross & Spencer, 1952; Smith, 1968; Schmid, 1970; Nimmo, 1971; Wold, 1974;  
 Nimmo & Scudder, 1978; Schmid, 1981);  
 CA (Resh & Mendez, 2022);  
 ID (Smith, 1968; Nimmo, 1971; Newell & Minshall, 1977);  
 MT (Smith, 1968; Newell, 1970; Nimmo, 1971; Newell & Potter, 1973;  
 Schmid, 1981; Roemhild, 1982);  
 NV (Ruiter, Baumann, & Flint, 2014);  
 OR (Anderson, 1976; Anderson, Wisseman, & Courtney, 1984; Anderson & Hansen, 1987);  
 UT (Smith, 1968; Nimmo, 1971; Schmid, 1981; Baumann & Unzicker, 1981);  
 WA (Thut, 1969; Wold, 1974; Anderson, & Wisseman, 1987;  
 Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013);  
 WY (Swegman & Ferrington, 1980; Ruiter & Lavigne, 1985).
- Rhyacophila valuma* Milne, 1936, BC;  
 male genitalia (Ross, 1956);  
 larva (Wold, 1974);  
 male & female genitalia (Schmid, 1981);  
 BC to CA to CO to UT (Wold, 1974);  
 west Nearctic (Schmid, 1970);  
 AB (Schmid, 1981);  
 AK (Vineyard, 1982);  
 BC (Milne, 1936; Ross & Spencer, 1952; Nimmo & Scudder, 1978; Schmid, 1981;  
 Nimmo & Scudder, 1983);  
 CA (Denning, 1948; Schmid, 1981; Erman, 1989; Resh & Mendez, 2022);  
 CO (Milne, 1936; Denning, 1948; Allan, 1975; Schmid, 1981;  
 Herrmann, Ruiter, & Unzicker, 1986);  
 MT (Newell & Potter, 1973; Roemhild, 1982);  
 OR (Anderson, 1976; Schmid, 1981; Anderson, Cooper, & Denning, 1982;  
 Anderson, Wisseman, & Courtney, 1984);  
 UT (Schmid, 1981; Baumann & Unzicker, 1981);  
 WA (Schmid, 1981; Anderson & Wisseman, 1987;  
 Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013);  
 WY (Wold, 1974, doubtfully according to Ruiter & Lavigne, 1985).
- Rhyacophila vao* Milne, 1936, BC;  
*Rhyacophila vu* Milne, 1936 (Ross, 1944);

*Rhyacophila wallowa* Denning, 1956, OR (Smith & Manuel, 1984; Smith, 1986);  
 male genitalia (Denning, 1956);  
 larva (Wold, 1974);  
 male & female genitalia (Nimmo, 1977; Schmid, 1981; Smith & Manuel, 1984);  
 west Nearctic (Schmid, 1970);  
 AB (Milne, 1936; Smith, 1968; Nimmo, 1977; Schmid, 1981);  
 AK (Denning, 1948; Smith, 1968; Nimmo, 1977; Ellis, 1978; Schmid, 1981; Vineyard, 1982);  
 BC (Milne, 1936; Ross & Spencer, 1952; Smith, 1968; Nimmo, 1977; Nimmo & Scudder, 1978;  
 Schmid, 1981; Nimmo & Scudder, 1983; Smith & Manuel, 1984;  
 Williams & Williams, 1987);  
 CA (Wold, 1974; Anderson, 1976; Smith & Manuel, 1984; McElravy & Resh, 1987; Erman, 1989;  
 Myers & Resh, 1999; Givens, 2014; Resh & Mendez, 2022);  
 CO (Milne, 1936; Herrmann, Ruiter, & Unzicker, 1986; Ruiter, 1996;  
 Zuellig, Kondratieff, Ruiter, & Thorp, 2006; Zuellig, Heinold, Kondratieff, & Ruiter,  
 2012);  
 ID (Smith, 1965; Smith, 1968; Wold, 1974; Anderson, 1976;  
 Nimmo, 1977; Newell & Minshall, 1977; Schmid, 1981; Smith & Manuel, 1984);  
 MB (Cobb, Flannagan, & Friesen, 1984);  
 MT (Newell, 1970; Newell & Potter, 1973; Nimmo, 1977; Schmid, 1981; Roemhild, 1982;  
 Jones & Resh, 1988);  
 NV (Ruiter, Baumann, & Flint, 2014);  
 OR (Milne, 1936; Denning, 1956; Smith, 1968; Anderson & Wold, 1972; Anderson, 1976;  
 Nimmo, 1977; Schmid, 1981; Anderson, Cooper, & Denning, 1982;  
 Smith & Manuel, 1984; Anderson, Wisseman, & Courtney, 1984;  
 Anderson & Hansen, 1987);  
 SD (Ruiter, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 SK (Williams & Williams, 1987);  
 UT (Baumann & Unzicker, 1981);  
 WA (Smith, 1968; Wold, 1974; Anderson, 1976; Schmid, 1981; Smith, 1981;  
 Smith & Manuel, 1984; Anderson, & Wisseman, 1987;  
 Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005;  
 Blinn & Ruiter, 2013);  
 WY (Wold, 1974; Anderson, 1976; Ruiter & Lavigne, 1985; Ruiter, 1996);  
 YT (Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997).

*Rhyacophila vedra* Milne, 1936, OR;  
 male genitalia (Schmid, 1970);  
 male & female genitalia (Denning, 1975; Schmid, 1981);  
 west Nearctic (Schmid, 1970);  
 CA (Ling, 1938; Denning, 1948; Denning, 1975; Resh & Sorg, 1978; Schmid, 1981;  
 McElravy & Resh, 1987; Resh & Mendez, 2022);  
 OR (Milne, 1936; Anderson & Wold, 1972; Denning, 1975; Anderson, 1976; Schmid, 1981;  
 Anderson, Cooper, & Denning, 1982; Anderson, Wisseman, & Courtney, 1984;  
 Anderson & Hansen, 1987);  
 WA (Denning, 1975; Anderson, 1976; Schmid, 1981; Blinn & Ruiter, 2013).

*Rhyacophila velora* Denning, 1954, CA;  
 CA (Denning, 1954; Schmid, 1970; Resh & Sorg, 1978; Resh & Mendez, 2022);  
 OR (Anderson, 1976; Anderson, Wisseman, & Courtney, 1984).

*Rhyacophila vemna* Milne, 1936, WA;  
 male genitalia (Schmid, 1970);  
 wings, male & female genitalia (Nimmo, 1971);  
 male & female genitalia (Schmid, 1981);  
 west Nearctic (Schmid, 1970);  
 AB (Nimmo, 1971; Schmid, 1981);  
 BC (Nimmo & Scudder, 1978; Schmid, 1981);



- ID (Smith, 1965; Nimmo, 1971; Schmid, 1981);  
 MT (Newell & Potter, 1973; Roemhild, 1982);  
 OR (Anderson, 1976; Schmid, 1981);  
 WA (Milne, 1936; Denning, 1948; Nimmo, 1971; Schmid, 1981;  
 Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005);  
 WY (Ruiter, 1996).
- Rhyacophila verrula* Milne, 1936, BC;  
*Rhyacophila oregonensis* Ling, 1938 (Ross, 1944);  
 larva (Smith, 1968; Wold, 1974);  
 wings, male & female genitalia (Nimmo, 1971);  
 male & female genitalia (Schmid, 1981);  
 photo of larva (Stagliano, 2008);  
 Canada (Ling, 1938);  
 west Nearctic (Schmid, 1970);  
 AB (Milne, 1936; Denning, 1948; Smith, 1968; Nimmo, 1971; Schmid, 1981);  
 AK (Smith, 1968; Nimmo, 1971; Ellis, 1978; Schmid, 1981; Vineyard, 1982);  
 BC (Milne, 1936; Schmid & Guppy, 1952; Ross & Spencer, 1952; Smith, 1968; Nimmo, 1971;  
 Nimmo & Scudder, 1978; Schmid, 1981; Williams, 1991);  
 CA (Smith, 1968; Nimmo, 1971; Schmid, 1981; Erman, 1989; Erman & Erman, 1990;  
 Givens, 2014; Resh & Mendez, 2022);  
 CO (Smith, 1968; Nimmo, 1971; Allan, 1975; Short, Ward, Gary, & Currie, 1978;  
 Short & Ward, 1980; Ward, 1981; Schmid, 1981;  
 Herrmann, Ruiter, & Unzicker, 1986; Ward, 1986;  
 Zuellig, Kondratieff, Ruiter, & Thorp, 2006;  
 Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 ID (Smith, 1968; Nimmo, 1971; Newell & Minshall, 1977; Schmid, 1981);  
 MT (Denning, 1948; Smith, 1968; Newell, 1970; Nimmo, 1971;  
 Newell & Potter, 1973; Swegman & Ferrington, 1980;  
 Schmid, 1981; Roemhild, 1982; Stagliano, 2008);  
 NM (Molles, 1982);  
 NV (Ruiter, Baumann, & Flint, 2014);  
 OR (Milne, 1936; Ling, 1938; Smith, 1968; Nimmo, 1971; Anderson, 1976; Schmid, 1981;  
 Anderson, Cooper, & Denning, 1982; Anderson, Wisseman, & Courtney, 1984);  
 UT (Knowlton & Harmston, 1939; Smith, 1968; Nimmo, 1971; Schmid, 1981;  
 Baumann & Unzicker, 1981);  
 WA (Milne, 1936; Smith, 1968; Thut, 1969; Nimmo, 1971; Schmid, 1981;  
 Anderson & Wisseman, 1987;  
 Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013);  
 WY (Denning, 1948; Smith, 1968; Nimmo, 1971; Wold, 1974; Swegman & Ferrington, 1980;  
 Schmid, 1981; Ruiter & Lavigne, 1985);  
 YT (Schmid, 1981; Wiggins & Parker, 1997).
- Rhyacophila vetina* Milne, 1936, WA;  
 male & female genitalia (Schmid, 1981);  
 west Nearctic (Schmid, 1970);  
 OR (Wold, 1974; Anderson, 1976; Schmid, 1981);  
 WA (Milne, 1936; Schmid, 1981; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005).
- Rhyacophila vibox* Milne, 1936, QC;  
 male genitalia (Schmid, 1970; Houghton, 2012);  
 male & female genitalia (Schmid, 1981);  
 northeast Nearctic (Schmid, 1970);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 CT (Nelson, 1987; Nelson & Downs, 1995; Prather, Syrett, & Morse, 1997);  
 IA (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1944; Schmid, 1981; Prather, Syrett, & Morse, 1997;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

- IN (Waltz & McCafferty, 1983; Prather, Syrett, & Morse, 1997; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- KY (Houp, 1999; Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MA (Flint, 1962; Neves, 1979; Schmid, 1981; Prather, Syrett, & Morse, 1997);
- MI (Leonard & Leonard, 1949; Ellis, 1962; Schmid, 1981; Prather, Syrett, & Morse, 1997; Prather & Morse, 2001; Houghton, Brandin, & Brakel, 2011; DeWalt & South, 2015; Houghton, 2016; Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiters, Bright, Hudson, & Armitage, 2018; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MN (Lager, Johnson, Williams, & McCullough, 1979; Prather, Syrett, & Morse, 1997; Houghton, Holzenthal, Monson, & MacLean, 2001; Houghton, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- NC (Schmid, 1970; Schmid, 1981; Prather, Syrett, & Morse, 1997; Lenat, Ruiters, Parker, Robinson, Beaty, & Flint, 2010);
- NF (Schmid, 1981; Schmid, 1981; Marshall & Larson, 1982; Prather, Syrett, & Morse, 1997);
- NH (Morse & Blickle, 1957; Schmid, 1981; Prather, Syrett, & Morse, 1997);
- NJ (Weaver & Sykora, 1979; Prather, Syrett, & Morse, 1997);
- NY (Flint, 1962; Schmid, 1981; Prather, Syrett, & Morse, 1997; Zhou et al., 2011; Myers, Kondratieff, Mihuc, & Ruiters, 2011);
- OH (McElravy, Arsuffi, & Foote, 1977; Hury & Foote, 1983; Prather, Syrett, & Morse, 1997; Armitage et al., 2011; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- ON (Ross, 1944; Schmid, 1981; Singh, Smith, & Harrison, 1984a; Prather, Syrett, & Morse, 1997);
- PA (Masteller & Flint, 1979; Weaver & Sykora, 1979; Masteller & Flint, 1992; Prather, Syrett, & Morse, 1997; Prather & Morse, 2001);
- QC (Milne, 1936; Ross, 1944; Roy & Harper, 1979; Schmid, 1981; Prather, Syrett, & Morse, 1997);
- TN (Edwards, 1966; Etnier & Schuster, 1979; Prather, Syrett, & Morse, 1997; Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005);
- VA (Roback, 1975, according to Flint, pers comm; Prather, Syrett, & Morse, 1997; Flint, Hoffman, & Parker, 2004);
- VT (Flint, 1962; Schmid, 1981; Prather, Syrett, & Morse, 1997v);
- WI (Flint, 1962; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Shapas & Hilsenhoff, 1976; Karl & Hilsenhoff, 1979; Schmid, 1981; Hilsenhoff, 1995; Prather, Syrett, & Morse, 1997; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- WV (Applin & Tarter, 1977; Tarter, 1990; Griffith & Perry, 1992; Prather, Syrett, & Morse, 1997; Tarter & Floyd, 2016).
- Rhyacophila viquaea* Milne, 1936, OR;  
male genitalia (Lee & Ruiters, 2010);  
CA (Lee & Ruiters, 2010; Resh & Mendez, 2022);  
OR (Milne, 1936; Denning, 1954; Schmid, 1970; Anderson, 1976);  
WA (Denning, 1954; Ross, 1956; Schmid, 1970; Blinn & Ruiters, 2013).
- Rhyacophila visor*, Milne, 1936, BC;  
male & female genitalia (Schmid, 1981);  
west Nearctic (Schmid, 1970);  
BC (Milne, 1936; Ross & Spencer, 1952; Anderson, 1976; Schmid, 1981);  
OR (Ross & Spencer, 1952; Anderson, 1976; Schmid, 1981);  
WA (Anderson, 1976; Schmid, 1981; Ruiters, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiters, 2013).
- Rhyacophila vobara* Milne, 1936, BC;  
male genitalia (Schmid, 1970);

- wings, male & female genitalia (Nimmo, 1971);  
 male & female genitalia (Schmid, 1981);  
 west Nearctic (Schmid, 1970);  
 AB (Smith, 1968; Nimmo, 1971; Schmid, 1981;  
     Williams & Williams, 1987);  
 AK (Vineyard, 1982);  
 BC (Milne, 1936; Ross & Spencer, 1952; Smith, 1968; Nimmo, 1971;  
     Nimmo & Scudder, 1978; Schmid, 1981; Nimmo & Scudder, 1983);  
 ID (Smith, 1968; Nimmo, 1971; Schmid, 1981);  
 MT (Newell & Potter, 1973; Roemhild, 1982);  
 OR (Anderson, Cooper, & Denning, 1982);  
 WA (Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005);  
 YT (Smith, 1968; Nimmo, 1971; Schmid, 1981;  
     Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997).
- Rhyacophila vocala* Milne, 1936, BC;  
 male & female genitalia (Schmid, 1970; Schmid, 1981);  
 adult foreleg, male & female genitalia (Schmid, 1980);  
 AB (Schmid, 1981);  
 BC (Milne, 1936; Ross & Spencer, 1952; Smith, 1968; Schmid, 1970;  
     Nimmo, 1971 [as *R. hyalinata* according to  
     Nimmo & Scudder, 1978]; Schmid, 1981);  
 CA (Denning, 1956; Smith, 1968; Resh & Sorg, 1978; Schmid, 1981;  
     McElravy & Resh, 1987; Givens, 2014; Resh & Mendez, 2022);  
 CO (Herrmann, Ruiter, & Unzicker, 1986);  
 ID (Smith, 1968; Newell & Minshall, 1977; Schmid, 1981);  
 MT (Newell, 1970; Newell & Potter, 1973; Roemhild, 1982);  
 NV (Ruiter, Baumann, & Flint, 2014);  
 OR (Ross & Spencer, 1952; Smith, 1968; Schmid, 1970; Anderson, 1976; Schmid, 1981;  
     Anderson, Cooper, & Denning, 1982; Anderson, Wisseman, & Courtney, 1984;  
     Anderson & Hansen, 1987);  
 UT (Smith, 1968; Schmid, 1981; Baumann & Unzicker, 1981);  
 WA (Denning, 1948; Smith, 1968; Schmid, 1970; Schmid, 1981; Smith, 1981; Anderson, 1987;  
     Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013);  
 YT (Wiggins & Parker, 1997).
- Rhyacophila vofixa* Milne, 1936, AB;  
 male genitalia (Schmid, 1970);  
 wings, male & female genitalia (Nimmo, 1971);  
 male & female genitalia (Schmid, 1981);  
 WA to AK (Schmid, 1970);  
 AB (Milne, 1936; Schmid, 1981; Irons, 1988);  
 AK (Ross, 1956; Schmid, 1970; Schmid, 1981; Vineyard, 1982; Irons, 1988);  
 BC (Smith, 1968; Nimmo, 1971; Nimmo & Scudder, 1978; Schmid, 1981;  
     Nimmo & Scudder, 1983);  
 CA (Resh & Mendez, 2022);  
 CO (Herrmann, Ruiter, & Unzicker, 1986; Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 ID (Smith, 1968; Schmid, 1981);  
 UT (Baumann & Unzicker, 1981);  
 WA (Ross, 1956; Schmid, 1970; Schmid, 1981);  
 WY (Ruiter, 1996);  
 YT (Smith, 1968; Schmid, 1981; Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997).
- Rhyacophila vuzana* Milne, 1936, OR;  
 female genitalia (Denning, 1965);  
 male & female genitalia (Schmid, 1981);  
 BC to CA, ID (Wold, 1974);  
 west Nearctic (Schmid, 1970);

- BC (Schmid & Guppy, 1952; Ross & Spencer, 1952; Wold, 1974; Schmid, 1981; Nimmo & Scudder, 1983);  
 CA (Ross & Spencer, 1952; Wold, 1974; Schmid, 1981; Erman, 1989; Resh & Mendez, 2022);  
 ID (Wold, 1974; Schmid, 1981);  
 MT (Newell, 1970; Newell & Potter, 1973; Roemhild, 1982);  
 OR (Milne, 1936; Ross & Spencer, 1952; Anderson & Wold, 1972; Anderson, 1976; Anderson, Cooper, & Denning, 1982; Anderson, Wisseman, & Courtney, 1984; Anderson & Hansen, 1987)  
 WA (Blinn & Ruiter, 2013).
- Rhyacophila weitchpec* Lee & Ruiter, 2010, CA;  
 male genitalia (Lee & Ruiter, 2010);  
 CA (Lee & Ruiter, 2010; Resh & Mendez, 2022).
- Rhyacophila willametta* Ross, 1950, OR;  
 male & female genitalia (Schmid, 1970);  
 CA (Lee & Ruiter, 2010);  
 OR (Ross, 1950; Schmid, 1970; Anderson & Wold, 1972; Anderson, 1976; Anderson, Cooper, & Denning, 1982; Anderson, Wisseman, & Courtney, 1984);  
 WA (Anderson, 1976).
- Rossianidae (2 genera, 2 species) —Western Caddisflies
- Goereilla baumanni* Denning, 1971, MT;  
 larva, pupa, case, male head, pronotum, mesonotum, wings, male & female genitalia (Wiggins, 1976);  
 larva, case (Wiggins, 1977);  
 wings, palps, male & female genitalia (Schmid, 1983);  
 ID (Wiggins, 1977; Denning, 1982);  
 MT (Denning, 1971; Newell & Potter, 1973; Wiggins, 1976; Wiggins, 1977; Roemhild, 1982; Denning, 1982; Schmid, 1983);  
 WA (Ruiter, 1999).
- Rossiana montana* Denning, 1953, MT;  
 wings, male and female genitalia (Schmid, 1968);  
 larva, case (Wiggins, 1977);  
 male maxillary palp, wings, male & female genitalia (Schmid, 1980);  
 BC (Schmid, 1968; Schmid, 1980; Wiggins, 1977; Nimmo & Scudder, 1978);  
 MT (Denning, 1953; Newell, 1970; Newell & Potter, 1973; Wiggins, 1977; Schmid, 1980; Roemhild, 1982);  
 WA (Wiggins, 1977; Schmid, 1980).
- Sericostomatidae (3 genera, 15 species) —Bush-tailed Caddisflies
- Agarodes alabamensis* Harris, 1986, AL;  
 male genitalia (Keth & Harris, 2008);  
 AL (Harris, 1986; Harris & Lago, 1990; Harris, 1990; Harris, O'Neil, & Lago, 1991; Morse et al, 1997; Keth & Harris, 2008).
- Agarodes crassicornis* (Walker, 1852), *Hydropsyche*, GA;  
 female genitalia (Ross & Scott, 1974);  
 male & female genitalia (Keth & Harris, 2008);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris, 1987; Harris & Lago, 1990; Harris, O'Neil, & Lago, 1991; Hicks & Haynes, 2000a; Keth & Harris, 2008; Harris & O'Neil, 2015);  
 FL (Ross & Scott, 1974; Harris, Lago, & Scheiring, 1982);

- Gordon, 1984; Pescador, Rasmussen, & Harris, 1995, 2004; Keth & Harris, 2008; Denson, Rasmussen, & Harris, 2016);
- GA (Ross & Scott, 1974; Ross, 1944; Keth & Harris, 2008);
- LA (Harris, O'Neil, & Lago, 1991; Keth & Harris, 2008);
- MD (Ross & Scott, 1974);
- MS (Holzenthal, Harris, & Lago, 1982; Keth & Harris, 2008);
- NC (Wray, 1950; Keth & Harris, 2008; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);
- NJ (Flint, Hoffman, & Parker, 2009);
- SC (Ross & Scott, 1974; Morse, Chapin, Herlong, & Harvey, 1980; Keth & Harris, 2008);
- TX (Moulton & Stewart, 1997; Keth & Harris, 2008);
- VA (Flint, Hoffman, & Parker, 2009; Roble, Flint, & Harris, 2019).
- Agarodes distinctus* (Ulmer, 1905), Notidobia, ME;
- Schizopelex lobata* Banks, 1911, NY (Milne, 1936);
- Psiloneura moesta* Banks, 1914, MA (Milne, 1936);
- male & female genitalia (Ross & Scott, 1974; Keth & Harris, 2008);
- larva, case (Wiggins, 1977);
- head, wings, male & female maxillary palps, labial palp, male & female genitalia (Schmid, 1980; Schmid, 1983);
- male genitalia (Houghton, 2012);
- QC, ON, MN, NH, south to GA (Schmid, 1983);
- CT (Britton, 1938; Nelson & Downs, 1995);
- GA (Schmid, 1983; Keth & Harris, 2008);
- MA (Banks, 1914; Betten, 1934; Neves, 1979; Keth & Harris, 2008);
- ME (Ulmer, 1905; Blickle & Morse, 1966; Mingo & Gibbs, 1980; Bilger, 1986; Keth & Harris, 2008);
- MI (Bright & Bidlack, 1998;
- Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018; Houghton & Lardner, 2020; Houghton, 2022;
- Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- MN (Etnier, 1968; Lager, Johnson, Williams, & McCullough, 1979; Schmid, 1983; MacLean, 1995; Houghton, Holzenthal, Monson, & MacLean, 2001; Keth & Harris, 2008; Houghton, 2012;
- Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);
- NH (Banks, 1911; Betten, 1934; Morse & Blickle, 1953; Schmid, 1983; Keth & Harris, 2008);
- NY (Banks, 1911; Ross, 1938; Keth & Harris, 2008; Myers, Kondratieff, Mihuc, & Ruitter, 2011);
- ON (Wiggins, 1977; Schmid, 1983; Keth & Harris, 2008);
- QC (Schmid, 1983; Keth & Harris, 2008);
- SC (Keth & Harris, 2008);
- TN (Etnier & Schuster, 1979; Etnier, Baxter, Fraley, & Parker, 1998; Keth & Harris, 2008);
- WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975; Shapas & Hilsenhoff, 1976; Hilsenhoff, 1995; Keth & Harris, 2008; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022).
- Agarodes georgia* Ross and Scott, 1974, GA;
- male & female genitalia (Keth & Harris, 2008);
- GA (Ross & Scott, 1974; Keth & Harris, 2008);
- TN (Etnier & Schuster, 1979, "fraudulent" record according to Etnier in litt, dubious according to Etnier, Baxter, Fraley, & Parker, 1998; Keth & Harris, 2008).
- Agarodes griseus* Banks, 1899, NY;
- Notidobia americana* Banks, 1900, VA (Milne, 1936);
- female genitalia (Ross & Scott, 1974);
- male & female genitalia (Schmid, 1983; Keth & Harris, 2008);
- larval head (Keth & Harris, 2008);
- QC, New England, south to GA (Schmid, 1983);
- NC/SC (Unzicker, Resh, & Morse, 1982);

- AL (Harris, 1987; Harris & Lago, 1990; Harris, O'Neil, & Lago, 1991; Hicks & Haynes, 2000a; Keth & Harris, 2008);
- CT (Britton, 1938; Nelson, 1987; Nelson & Downs, 1995; Keth & Harris, 2008);
- DC (Banks, 1907; Keth & Harris, 2008);
- DE (Lake, 1984; Keth & Harris, 2008);
- FL (Keth & Harris, 2008, based on females, record should be considered “tentative” according to Harris in litt);
- GA (Schmid, 1983; Keth & Harris, 2008);
- MA (Neves, 1979; Keth & Harris, 2008);
- ME (Hurn & Harris, 2000);
- MS (Keth & Harris, 2008);
- NC (Floyd, Morse, & Harris, 1997; Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);
- NH (Morse & Blickle, 1953; Keth & Harris, 2008);
- NS (Ruiter, 2000);
- NY (Banks, 1899; Keth & Harris, 2008; Myers, Kondratieff, Mihuc, & Ruiter, 2011);
- PA (Masteller & Flint, 1992; Keth & Harris, 2008);
- QC (Robert, 1958; Roy & Harper, 1975; Roy & Harper, 1979; Schmid, 1983; Keth & Harris, 2008);
- SC (Morse et al, 1979; Morse, Hamilton, & Hoffman, 1989; Floyd & Morse, 1993; Keth & Harris, 2008);
- VA (Banks, 1900; Flint, Hoffman, & Parker, 2008; Keth & Harris, 2008).
- Agarodes libalis* Ross and Scott, 1974, LA;  
 male & female genitalia (Keth & Harris, 2008);  
 larval head (Keth & Harris, 2008);  
 egg mass (Wood, Resh, & McEwan, 1982);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Ross & Scott, 1974; Harris, 1987; Harris & Lago, 1990; Harris, O'Neil, & Lago, 1991; Hicks & Haynes, 2000a; Keth & Harris, 2008; Harris & O'Neil, 2015);  
 DE (Lake, 1984; Keth & Harris, 2008);  
 FL (Ross & Scott, 1974; Gordon, 1984; Pescador, Rasmussen, & Harris, 1995, 2004; Rasmussen, 2004; Keth & Harris, 2008; Denson, Rasmussen, & Harris, 2016);  
 LA (Ross & Scott, 1974; Holzenthal, Harris, & Lago, 1982; Keth & Harris, 2008);  
 MS (Holzenthal, Harris, & Lago, 1982; Keth & Harris, 2008);  
 NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 SC (Ross & Scott, 1974; Morse, Chapin, Herlong, & Harvey, 1980; Wood, Resh, & McEwan, 1982; Keth & Harris, 2008);  
 TX (Abbott, Stewart, & Moulton, 1997; Moulton & Stewart, 1997; Keth & Harris, 2008);  
 VA (Roeding & Smock, 1989; Flint, Hoffman, & Parker, 2008; Keth & Harris, 2008).
- Agarodes logani* Keth & Harris, 1999, FL;  
 male & female genitalia (Keth & Harris, 2008);  
 FL (Keth & Harris, 1999; Pescador, Rasmussen, & Harris, 2004; Rasmussen, 2004; Keth & Harris, 2008).
- Agarodes stannardi* (Ross, 1962), *Sericostoma*, MS;  
 male & female genitalia (Keth & Harris, 1999; Keth & Harris, 2008);  
 AL (Harris, 1987; Harris & Lago, 1990; Harris, 1990; Harris, O'Neil, & Lago, 1991; Hicks & Haynes, 2000a; Keth & Harris, 2008);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012; Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MS (Ross, 1962; Holzenthal, Harris, & Lago, 1982; Keth & Harris, 2008);  
 TN (Harris, O'Neil, & Lago, 1991; Etnier, Baxter, Fraley, & Parker, 1998; Keth & Harris, 2008).
- Agarodes tetron* (Ross, 1948), *Sericostoma*, GA;  
 male & female genitalia (Keth & Harris, 2008);  
 larval head (Keth & Harris, 2008);  
 NC/SC (Unzicker, Resh, & Morse, 1982);

- GA (Ross, 1948; Keth & Harris, 2008);  
 NC (Floyd, Morse, & Harris, 1997; Keth & Harris, 2008;  
     Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);  
 SC (Morse et al, 1979; Morse, Hamilton, & Hoffman, 1989; Keth & Harris, 2008);  
 TN (Ross, 1948; Etnier, Baxter, Fraley, & Parker, 1998; Keth & Harris, 2008; Zhou et al., 2011).
- Agarodes tuskaloosa* Keth & Harris, 1999, AL;  
 male genitalia (Keth & Harris, 2008);  
 AL (Keth & Harris, 1999; Keth & Harris, 2008).
- Agarodes wallacei* Ross & Scott, 1974, SC;  
 male & female genitalia (Keth & Harris, 2008);  
 larval head (Keth & Harris, 2008, as *Agarodes wallacei/Agarodes ziczac*);  
 NC/SC (Unzicker, Resh, & Morse, 1982; Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 FL (Keth & Harris, 2008, based on females, record should be considered “tentative” according to  
     Harris in litt);  
 NC (Keth & Harris, 2008);  
 SC (Ross & Scott, 1974; Morse, Chapin, Herlong, & Harvey, 1980; Keth & Harris, 2008).
- Agarodes ziczac* Ross & Scott, 1974, FL;  
 male & female genitalia (Keth & Harris, 2008);  
 larval head (Keth & Harris, 2008, as *Agarodes wallacei/Agarodes ziczac*);  
 FL (Ross & Scott, 1974; Harris, Lago, & Scheiring, 1982;  
     Gordon, 1984; Scheiring, 1985; Pescador, Rasmussen, & Harris, 1995, 2004;  
     Rasmussen, 2004; Keth & Harris, 2008).
- Fattigia pele* (Ross, 1938), Notidobia, NC;  
 larva, case (Wiggins, 1977);  
 egg mass (Wood, Resh, & McEwan, 1982);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 GA (Wood, Resh, & McEwan, 1982);  
 NC (Ross, 1938; Woodall & Wallace, 1972; Wiggins, 1977;  
     Wood, Resh, & McEwan, 1982; Armitage & Tennessen, 1984;  
     Huryn & Wallace, 1987; Huryn & Wallace, 1988;  
     Morse, Hamilton, & Hoffman, 1989; DeWalt, Jacobus, & McCafferty, 2007;  
     Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);  
 SC (Wood, Resh, & McEwan, 1982; Morse, Hamilton, & Hoffman, 1989;  
     Floyd, Morse, & Harris, 1997);  
 TN (Etnier, Baxter, Fraley, & Parker, 1998; DeWalt & Heinold, 2005);  
 VA (Parker & Voshell, 1981; Flint, Hoffman, & Parker, 2008).
- Gumaga griseola* (McLachlan, 1871), Notidobia, CA;  
 Notidobia *assimilis* Banks, 1907, CA (Milne, 1936);  
 egg mass (Wood, Resh, & McEwan, 1982);  
 female genitalia (Ruitter & Blinn, 2009);  
 AZ (Ross & Wallace, 1974; Moulton, Stewart, & Young, 1994; Ruitter, 1996; Houghton, 2001;  
     Blinn & Ruitter, 2006; Blinn, Ruitter, & Haden, 2012);  
 CA (McLachlan, 1871; Banks, 1907; Denning, 1956; Ross & Wallace, 1974; Wood & Resh, 1984;  
     Resh, Jackson, & Wood, 1987; Erman, 1987; Erman & Erman, 1990;  
     Myers & Resh, 1999; Givens, 2014; Resh & Mendez, 2022);  
 CO (Ruitter, 1990);  
 KS (Hamilton, Schuster, & DuBois, 1983;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NM (Ross & Wallace, 1974);  
 OR (Anderson, 1976);  
 UT (Ross & Wallace, 1974; Baumann & Unzicker, 1981);  
 Mexico (Bueno-Soria & Flint, 1978).
- ? *Gumaga hespera* (Banks, 1914), Schizopelex, UT; unidentified female according to Ross, 1944;

UT (Banks, 1914; Ross, 1944; Ross, 1948).  
*Gumaga nigricula* (McLachlan, 1871), *Notidobia*, CA;  
*Notidobia arizonica* Banks, 1943, AZ (Kimmins & Denning, 1951);  
 larva, case (Wiggins, 1977);  
 larval head and pronotum (Resh et al, 1981);  
 egg mass (Wood, Resh, & McEwan, 1982);  
 AZ (Banks, 1943; Wiggins, 1977; Moulton, Stewart, & Young, 1994; Blinn & Ruiter, 2006);  
 CA (McLachlan, 1871; Resh et al, 1981; Resh, 1982; Resh, 1983; Wood, Resh, & McEwan, 1982;  
 Wood & Resh, 1984; Resh, Jackson, & Wood, 1987; McElravy & Resh, 1987;  
 Jackson & Resh, 1989; Feminella & Resh, 1991; Resh et al, 1997;  
 Jackson, McElravy, & Resh, 1999; Resh & Mendez, 2022);  
 OR (Anderson, 1976).

Thremmatidae (2 genera, 32 species) —Little Caddisflies

*Neophylax acutus* Vineyard & Wiggins, 1987, TN;  
 female genitalia (Vineyard & Wiggins, 1988);  
 male & female genitalia, larva (Vineyard, Wiggins, Frania, & Schefter, 2005);  
 AL (Vineyard & Wiggins, 1987; Harris & Lago, 1990; Harris, 1990;  
 Harris, O'Neil, & Lago, 1991; Vineyard, Wiggins, Frania, & Schefter, 2005);  
 KY (Floyd & Schuster, 1990; Floyd, Vineyard, Wiggins, Frania, & Schefter, 2005;  
 Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 TN (Vineyard & Wiggins, 1987; Etnier, Baxter, Fraley, & Parker, 1998;  
 Vineyard, Wiggins, Frania, & Schefter, 2005);  
 VA (Flint, Hoffman, & Parker, 2008).  
*Neophylax aniqua* Ross, 1947, QC;  
 male & female genitalia (Marshall & Larson, 1982);  
 male & female genitalia, larva (Vineyard, Wiggins, Frania, & Schefter, 2005);  
 KY (Zhou et al., 2011; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ME (Vineyard, Wiggins, Frania, & Schefter, 2005);  
 NB (Williams & Williams, 1987; Vineyard, Wiggins, Frania, & Schefter, 2005);  
 NC (Vineyard, Wiggins, Frania, & Schefter, 2005;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NF (Marshall & Larson, 1982; Vineyard, Wiggins, Frania, & Schefter, 2005;  
 Cordero, Sánchez-Ramírez, & Currie, 2017);  
 NH (Denning, 1948; Schmid, 1955; Mayer & Likens, 1987;  
 Vineyard, Wiggins, Frania, & Schefter, 2005);  
 NJ (Mendez, Spagna, Holzenthal, & Houghton, 2019);  
 NS (Vineyard, Wiggins, Frania, & Schefter, 2005);  
 NY (Vineyard, Wiggins, Frania, & Schefter, 2005; Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 ON (Sinclair & Marshall, 1986; Beam & Wiggins, 1987; Williams & Williams, 1987;  
 Williams, 1991; Vineyard, Wiggins, Frania, & Schefter, 2005);  
 PA (Masteller & Flint, 1979; Glazier & Gooch, 1987; Masteller & Flint, 1992;  
 Vineyard, Wiggins, Frania, & Schefter, 2005;  
 Hoenig, Trevelline, Nuttle, & Porter, 2021);  
 PE (Dobrin & Giberson, 2003);  
 QC (Ross, 1947; Schmid, 1955; Roy & Harper, 1979; Williams & Williams, 1979; Harper, 1989;  
 Vineyard, Wiggins, Frania, & Schefter, 2005);  
 TN (Etnier & Schuster, 1979; Etnier, Baxter, Fraley, & Parker, 1998;  
 Vineyard, Wiggins, Frania, & Schefter, 2005);  
 VA (Vineyard, Wiggins, Frania, & Schefter, 2005; Flint, Hoffman, & Parker, 2008);  
 VT (Vineyard, Wiggins, Frania, & Schefter, 2005);  
 WV (Tarter & Hill, 1980; Tarter, 1990; Griffith & Perry, 1992;  
 Vineyard, Wiggins, Frania, & Schefter, 2005; Tarter & Floyd, 2016).



- Neophylax atlanta* Ross, 1947, GA;  
 male & female genitalia, male metatibial spurs, larva  
 (Vineyard, Wiggins, Frania, & Schefter, 2005);  
 AL (Harris, 1987; Harris & Lago, 1990; Harris, 1990;  
 Harris, O'Neil, & Lago, 1991; Vineyard, Wiggins, Frania, & Schefter, 2005);  
 GA (Ross, 1947; Denning, 1948; Schmid, 1955; Vineyard, Wiggins, Frania, & Schefter, 2005);  
 MS (Etnier, 2010);  
 NC (Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Park, 2018);  
 SC (Harris, O'Neil, & Lago, 1991; Floyd & Morse, 1993;  
 Vineyard, Wiggins, Frania, & Schefter, 2005);  
 VA (Harris, O'Neil, & Lago, 1991; Vineyard, Wiggins, Frania, & Schefter, 2005;  
 not in VA according to Flint, Hoffman, & Parker, 2008).
- Neophylax ayanus* Ross, 1938, KY;  
 male & female genitalia, larva (Vineyard, Wiggins, Frania, & Schefter, 2005);  
 IL (Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Ross, 1938; Waltz & McCafferty, 1983; Vineyard, Wiggins, Frania, & Schefter, 2005;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Ross, 1938; Schmid, 1955; Resh, 1975; Vineyard, Wiggins, Frania, & Schefter, 2005;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MI (Vineyard, Wiggins, Frania, & Schefter, 2005;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NJ (Mendez, Spagna, Holzenthal, & Houghton, 2019);  
 OH (Huryn & Foote, 1983; Vineyard, Wiggins, Frania, & Schefter, 2005; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 TN (Etnier, Baxter, Fraley, & Parker, 1998; Vineyard, Wiggins, Frania, & Schefter, 2005).
- Neophylax concinnus* McLachlan, 1871, NY;  
*Neophylax autumnus* Vorhies, 1909, WI (Kimmins & Denning, 1951);  
 [*Neophylax mitchelli* Carpenter, 1933, NC (Milne, 1935), but actually not - see below];  
 [*Neophylax sinuatus* Navás, 1917, MT (Milne, 1935), but actually not - see below];  
 male wings, female hindwing (Schmid, 1980);  
 male & female genitalia, male hind wing, larva, photo of adult  
 (Vineyard, Wiggins, Frania, & Schefter, 2005);  
 male genitalia (Houghton, 2012);  
 Canada (Provancher, 1878);  
 AL (Harris, 1987; Harris & Lago, 1990; Harris, 1990; Harris, O'Neil, & Lago, 1991;  
 Moulton & Stewart, 1996; Hicks & Haynes, 2000a;  
 Vineyard, Wiggins, Frania, & Schefter, 2005);  
 AR (Unzicker, Aggus, & Warren, 1970; Bowles & Mathis, 1989; Moulton & Stewart, 1996;  
 Vineyard, Wiggins, Frania, & Schefter, 2005; Bowles, Cheri, Usrey, & Williams, 2020);  
 CT (Nelson, 1987; Nelson & Downs, 1995; Moulton & Stewart, 1996;  
 Vineyard, Wiggins, Frania, & Schefter, 2005);  
 DE (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 FL (Harris, O'Neil, & Lago, 1991; Pescador, Rasmussen, & Harris, 1995;  
 Moulton & Stewart, 1996;  
 doubtful or erroneous according to Pescador, Rasmussen, & Harris, 2004);  
 GA (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 IA (Vineyard, Wiggins, Frania, & Schefter, 2005; Blinn, Ruiter, & Flint, 2009;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IL (Ross, 1944; Vinikour & Anderson, 1981; Moulton & Stewart, 1996;  
 Vineyard, Wiggins, Frania, & Schefter, 2005;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996;  
 Vineyard, Wiggins, Frania, & Schefter, 2005;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);

KY (Resh, 1975; Phillippi & Schuster, 1987; Moulton & Stewart, 1996;  
 Etnier, Bauer, & Zirkle, 2006; Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Harris, 1835; Patten, 1884; Neves, 1979; Moulton & Stewart, 1996;  
 Vineyard, Wiggins, Frania, & Schefter, 2005; Whitmore 2008);  
 MD (Banks, 1904; Moulton & Stewart, 1996);  
 ME (Procter, 1946; Blickle & Morse, 1966; Moulton & Stewart, 1996; Huryn & Harris, 2000;  
 Vineyard, Wiggins, Frania, & Schefter, 2005);  
 MI (Ross, 1944; Leonard & Leonard, 1949; Ellis, 1962; Moulton & Stewart, 1996;  
 Vineyard, Wiggins, Frania, & Schefter, 2005; Houghton, Brandin, & Brakel, 2011;  
 DeWalt & South, 2015; Houghton, 2016;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
 Houghton & Lardner, 2020; Houghton, 2022;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Denning, 1948; Etnier, 1965; Moulton & Stewart, 1996; Monson, 1997;  
 Houghton, Holzenthal, Monson, & MacLean, 2001;  
 Vineyard, Wiggins, Frania, & Schefter, 2005; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Harris, O'Neil, & Lago, 1991; Mathis & Bowles, 1992; Moulton & Stewart, 1996;  
 Mathis, 1999; Vineyard, Wiggins, Frania, & Schefter, 2005; Ferro & Sites, 2007;  
 Bowles, 2020;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MT (Navás, 1917; Moulton & Stewart, 1996);  
 [NC (Carpenter, 1933; Park, 2018)];  
 NH (Hagen, 1873; Banks, 1943; Morse & Blickle, 1953; Moulton & Stewart, 1996;  
 Schmid, 1955; Vineyard, Wiggins, Frania, & Schefter, 2005);  
 NJ (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 NY (McLachlan, 1871; Lloyd, 1921; Moulton & Stewart, 1996;  
 Vineyard, Wiggins, Frania, & Schefter, 2005;  
 Myers, Kondratieff, Mihuc, & Ruitter, 2011);  
 OH (McElravy, Arsuffi, & Foote, 1977; Petersen & Foote, 1980; Huryn & Foote, 1983;  
 Usis & MacLean, 1986; Garono & MacLean, 1988; Moulton & Stewart, 1996;  
 Vineyard, Wiggins, Frania, & Schefter, 2005; Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Ricker, 1934; Sprules, 1947; Singh, Smith, & Harrison, 1984a; Beam & Wiggins, 1987;  
 Williams & Williams, 1987; Harper, 1989; Williams, 1991; Moulton & Stewart, 1996;  
 Vineyard, Wiggins, Frania, & Schefter, 2005);  
 PA (Denning, 1948; Masteller & Flint, 1980; Masteller & Flint, 1984;  
 Swegman, Walker, & Sykora, 1981; Masteller & Flint, 1992; Moulton & Stewart, 1996;  
 Vineyard, Wiggins, Frania, & Schefter, 2005;  
 Hoenig, Trevelline, Nuttle, & Porter, 2021);  
 QC (Denning, 1948; Roy & Harper, 1979; Harper, 1989; Moulton & Stewart, 1996;  
 Vineyard, Wiggins, Frania, & Schefter, 2005);  
 RI (Harris, O'Neil, & Lago, 1991, in error, Hunt, 2017; Moulton & Stewart, 1996);  
 SC (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996);  
 TN (Edwards, 1966; Etnier & Schuster, 1979; Moulton & Stewart, 1996;  
 Etnier, Baxter, Fraley, & Parker, 1998; Vineyard, Wiggins, Frania, & Schefter, 2005);  
 VA (Parker & Voshell, 1981; Moulton & Stewart, 1996;  
 Vineyard, Wiggins, Frania, & Schefter, 2005; Flint, Hoffman, & Parker, 2008;  
 Flint, 2011);  
 VT (Harris, O'Neil, & Lago, 1991; Moulton & Stewart, 1996;  
 Vineyard, Wiggins, Frania, & Schefter, 2005);  
 WI (Vorhies, 1909; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
 Shapas & Hilsenhoff, 1976; Karl & Hilsenhoff, 1979; Steven & Hilsenhoff, 1984;  
 Hilsenhoff, 1995; Moulton & Stewart, 1996);

- Vineyard, Wiggins, Frania, & Schefter, 2005;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Hill & Tarter, 1978; Tarter, 1990; Moulton & Stewart, 1996;  
 Vineyard, Wiggins, Frania, & Schefter, 2005; Tarter & Floyd, 2016);  
 WY (Muttkowski, 1929; Moulton & Stewart, 1996).
- Neophylax consimilis* Betten, 1934, NY;  
 Neophylax slossonae Banks, 1943, NH (Vineyard, Wiggins, Frania, & Schefter, 2005);  
 male & female genitalia, larva (Vineyard, Wiggins, Frania, & Schefter, 2005);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 Canada (McConnochie & Likens, 1970);  
 GA (Vineyard, Wiggins, Frania, & Schefter, 2005);  
 KY (Resh, 1975; Phillippi & Schuster, 1987;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Denning, 1948; Schmid, 1955; Neves, 1979);  
 MD (Vineyard, Wiggins, Frania, & Schefter, 2005);  
 ME (Bilger, 1986; Vineyard, Wiggins, Frania, & Schefter, 2005);  
 NC (Armitage & Tennesen, 1984; Morse, Hamilton, & Hoffman, 1989;  
 Floyd, Morse, & Harris, 1997; Vineyard, Wiggins, Frania, & Schefter, 2005;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (McConnochie & Likens, 1970; Vineyard, Wiggins, Frania, & Schefter, 2005);  
 NS (Vineyard, Wiggins, Frania, & Schefter, 2005);  
 NY (Betten, 1934; Schmid, 1955; Vineyard, Wiggins, Frania, & Schefter, 2005;  
 Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 PA (Masteller & Flint, 1980; Masteller & Flint, 1992;  
 Vineyard, Wiggins, Frania, & Schefter, 2005;  
 Hoenig, Trevelline, Nuttle, & Porter, 2021);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979; Vineyard, Wiggins, Frania, & Schefter, 2005);  
 SC (Morse, Hamilton, & Hoffman, 1989; Floyd, Morse, & Harris, 1997;  
 Vineyard, Wiggins, Frania, & Schefter, 2005);  
 TN (Etnier, Baxter, Fraley, & Parker, 1998; Vineyard, Wiggins, Frania, & Schefter, 2005;  
 DeWalt, Jacobus, & McCafferty, 2007; Zhou et al., 2011);  
 VA (Vineyard, Wiggins, Frania, & Schefter, 2005; Flint, Hoffman, & Parker, 2008;  
 Zhou et al., 2011);  
 VT (Vineyard, Wiggins, Frania, & Schefter, 2005);  
 WV (Hill & Tarter, 1978; Tarter & Hill, 1980; Tarter, 1990;  
 Vineyard, Wiggins, Frania, & Schefter, 2005; Tarter & Floyd, 2016).
- Neophylax etnieri* Vineyard & Wiggins, 1987, TN;  
*Neophylax auris* Vineyard & Wiggins, 1987, TN (Vineyard, Wiggins, Frania, & Schefter, 2005);  
 male & female genitalia, larva (Vineyard, Wiggins, Frania, & Schefter, 2005);  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 TN (Vineyard & Wiggins, 1987; Morse et al, 1997; Etnier, Baxter, Fraley, & Parker, 1998;  
 Vineyard, Wiggins, Frania, & Schefter, 2005);  
 VA (Flint, Hoffman, & Parker, 2008).
- Neophylax fuscus* Banks, 1903, MI;  
 male & female genitalia, male head, male metatibial spurs, larva, photo of adult  
 (Vineyard, Wiggins, Frania, & Schefter, 2005);  
 male genitalia & photo of adult (Houghton, 2012);  
 AL (Vineyard, Wiggins, Frania, & Schefter, 2005);  
 AR (Moulton & Stewart, 1996);  
 CT (Nelson & Downs, 1995; Vineyard, Wiggins, Frania, & Schefter, 2005);  
 IL (Vineyard, Wiggins, Frania, & Schefter, 2005;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 IN (Waltz & McCafferty, 1983; Moulton & Stewart, 1996);

Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 KY (Phillippi & Schuster, 1987; Floyd & Schuster, 1990; Moulton & Stewart, 1996;  
 Vineyard, Wiggins, Frania, & Schefter, 2005;  
 Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Neves, 1979; Moulton & Stewart, 1996; Whitmore 2008);  
 ME (Mingo & Gibbs, 1980; Bilger, 1986; Moulton & Stewart, 1996);  
 MI (Banks, 1903; Ross, 1944; Schmid, 1955;  
 Moulton & Stewart, 1996; Vineyard, Wiggins, Frania, & Schefter, 2005;  
 Houghton, DeWalt, Pytel, Brandin, Rogers, Ruitter, Bright, Hudson, & Armitage, 2018;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MN (Ross, 1944; Schmid, 1955; Etnier, 1965; Moulton & Stewart, 1996;  
 Houghton, Holzenthal, Monson, & MacLean, 2001;  
 Vineyard, Wiggins, Frania, & Schefter, 2005; Zhou et al., 2011; Houghton, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MO (Ross, 1944; Schmid, 1955; Mathis & Bowles, 1992; Moulton & Stewart, 1996;  
 Vineyard, Wiggins, Frania, & Schefter, 2005; Ferro & Sites, 2007;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 NB (Vineyard, Wiggins, Frania, & Schefter, 2005);  
 NC (Lenat, Ruitter, Parker, Robinson, Beaty, & Flint, 2010);  
 NH (Banks, 1903; Ross, 1944; Schmid, 1955; Moulton & Stewart, 1996;  
 Vineyard, Wiggins, Frania, & Schefter, 2005);  
 NS (Vineyard, Wiggins, Frania, & Schefter, 2005);  
 NY (McCabe, 1986; Moulton & Stewart, 1996; Vineyard, Wiggins, Frania, & Schefter, 2005;  
 Myers, Kondratieff, Mihuc, & Ruitter, 2011);  
 OH (Huryn & Foote, 1981; Huryn & Foote, 1983; Garono & MacLean, 1988;  
 Moulton & Stewart, 1996; Vineyard, Wiggins, Frania, & Schefter, 2005;  
 Armitage et al., 2011;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 ON (Beam & Wiggins, 1987; Martin & Barton, 1987; Moulton & Stewart, 1996;  
 Vineyard, Wiggins, Frania, & Schefter, 2005);  
 PA (Masteller & Flint, 1992; Vineyard, Wiggins, Frania, & Schefter, 2005; Zhou et al., 2011;  
 Robinson, Wetzell, & Tiemann, 2017);  
 QC (Vineyard, Wiggins, Frania, & Schefter, 2005);  
 TN (Etnier & Schuster, 1979; Moulton & Stewart, 1996; Etnier, Baxter, Fraley, & Parker, 1998;  
 Zhou et al., 2011);  
 VA (Ross, 1944; Schmid, 1955; Moulton & Stewart, 1996;  
 Vineyard, Wiggins, Frania, & Schefter, 2005; Flint, Hoffman, & Parker, 2008;  
 Zhou et al., 2011; Flint, 2011);  
 VT (Wimmer, 1979; Moulton & Stewart, 1996; Vineyard, Wiggins, Frania, & Schefter, 2005);  
 WI (Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973; Hilsenhoff, 1975;  
 Shapas & Hilsenhoff, 1976; Hilsenhoff, 1995; Moulton & Stewart, 1996;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Vineyard, Wiggins, Frania, & Schefter, 2005; Tarter & Floyd, 2016).  
 Neophylax harrisi Schefter & Frania, 2005, in Vineyard, Wiggins, Frania, & Schefter, 2005, AL;  
 male & female genitalia (Vineyard, Wiggins, Frania, & Schefter, 2005);  
 AL (Vineyard, Wiggins, Frania, & Schefter, 2005).  
 Neophylax kolodskii Parker, 2000, TN;  
 male & female genitalia (Vineyard, Wiggins, Frania, & Schefter, 2005);  
 TN (Parker, 2000; Vineyard, Wiggins, Frania, & Schefter, 2005).  
 Neophylax lewisae Etnier, 2006, TN;  
 KY (Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 TN (Etnier, 2006).  
 Neophylax mitchelli Carpenter, 1933, NC;

[a synonym of *N. concinnus* McLachlan, 1871, according to Milne, 1935];  
*Neophylax nacatus* Denning, 1941, NH (Vineyard, Wiggins, Frania, & Schefter, 2005);  
*Neophylax delicatus* Banks, 1943, DE (Vineyard, Wiggins, Frania, & Schefter, 2005);  
 male genitalia (Marshall & Larson, 1982);  
 male & female genitalia, larva (Vineyard, Wiggins, Frania, & Schefter, 2005);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 DE (Banks, 1943; Schmid, 1955);  
 GA (Vineyard, Wiggins, Frania, & Schefter, 2005);  
 KY (Resh, 1975; Phillippi & Schuster, 1987;  
     Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 MA (Denning, 1948; Schmid, 1955; Vineyard, Wiggins, Frania, & Schefter, 2005);  
 MD (Vineyard, Wiggins, Frania, & Schefter, 2005);  
 ME (Vineyard, Wiggins, Frania, & Schefter, 2005);  
 MI (Yanoviak & McCafferty, 1996);  
 MN (Lager, Johnson, Williams, & McCullough, 1979,  
     doubtful identification according to Houghton, Holzenthal, Monson, & MacLean, 2001);  
 NB (Vineyard, Wiggins, Frania, & Schefter, 2005);  
 NC (Carpenter, 1933; Schmid, 1955; Armitage & Tennessen, 1984; Huryn & Wallace, 1987;  
     Huryn & Wallace, 1988; Morse et al, 1997; Vineyard, Wiggins, Frania, & Schefter, 2005;  
     DeWalt, Jacobus, & McCafferty, 2007;  
     Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010;  
     Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 NF (Marshall & Larson, 1982);  
 NH (Denning, 1941; Schmid, 1955; Vineyard, Wiggins, Frania, & Schefter, 2005);  
 NS (Vineyard, Wiggins, Frania, & Schefter, 2005);  
 NT (Schmid, 1955);  
 NY (Zhou et al., 2011; Vineyard, Wiggins, Frania, & Schefter, 2005);  
 PA (Ross, 1944; Masteller & Flint, 1992; Vineyard, Wiggins, Frania, & Schefter, 2005);  
 QC (Roy & Harper, 1975; Roy & Harper, 1979; Williams & Williams, 1979; Harper, 1989;  
     Vineyard, Wiggins, Frania, & Schefter, 2005);  
 ON (Vineyard, Wiggins, Frania, & Schefter, 2005);  
 SC (Morse, Hamilton, & Hoffman, 1989; Floyd & Morse, 1993;  
     Floyd, Morse, & Harris, 1997; Morse et al, 1997;  
     Vineyard, Wiggins, Frania, & Schefter, 2005);  
 TN (Etnier & Schuster, 1979; Etnier, Baxter, Fraley, & Parker, 1998;  
     Vineyard, Wiggins, Frania, & Schefter, 2005);  
 VA (Denning, 1941; Schmid, 1955; Parker & Voshell, 1981;  
     Vineyard, Wiggins, Frania, & Schefter, 2005; Flint, Hoffman, & Parker, 2008;  
     Zhou et al., 2011; Flint, 2011);  
 VT (Denning, 1941; Wimmer, 1979; Vineyard, Wiggins, Frania, & Schefter, 2005).  
*Neophylax occidentis* Banks, 1924, NV;  
*Acronopsyche pilosa* Banks, 1930, CA (Milne, 1935);  
 male hindtibial spurs, male & female genitalia (Schmid, 1980);  
 male & female genitalia, larva (Vineyard, Wiggins, Frania, & Schefter, 2005);  
 BC (Nimmo & Scudder, 1978; Nimmo & Scudder, 1983;  
     Vineyard, Wiggins, Frania, & Schefter, 2005);  
 CA (Banks, 1930; Denning, 1956; Erman, 1989; Vineyard, Wiggins, Frania, & Schefter, 2005;  
     Resh & Mendez, 2022);  
 ID (Newell & Minshall, 1977; Vineyard, Wiggins, Frania, & Schefter, 2005);  
 MT (Roemhild, 1982; Vineyard, Wiggins, Frania, & Schefter, 2005);  
 NV (Banks, 1924; Schmid, 1955; Vineyard, Wiggins, Frania, & Schefter, 2005;  
     Ruiter, Baumann, & Flint, 2014);  
 OR (Schmid, 1955; Anderson, 1967; Anderson, 1976;  
     Anderson, Cooper, & Denning, 1982);

Anderson, Wisseman, & Courtney, 1984; Vineyard, Wiggins, Frania, & Schefter, 2005);  
 UT (Baumann & Unzicker, 1981; Vineyard, Wiggins, Frania, & Schefter, 2005);  
 WA (Vineyard, Wiggins, Frania, & Schefter, 2005;  
     Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005;  
     Vineyard, Wiggins, Frania, & Schefter, 2005; Blinn & Ruiter, 2013);  
 WY (Vineyard, Wiggins, Frania, & Schefter, 2005).  
 Neophylax oligius Ross, 1938, MI;  
     male hindwing (Schmid, 1980);  
     adult head, hindwing, male genitalia (Marshall & Larson, 1982);  
     wings (Vineyard & Wiggins, 1988);  
     male & female genitalia, wings, larva, photos of adult, larva & case  
         (Vineyard, Wiggins, Frania, & Schefter, 2005);  
     male genitalia & photo of adult (Houghton, 2012);  
     northeastern North America (Wiggins, 1961);  
     NC/SC (Unzicker, Resh, & Morse, 1982);  
     AL (Harris, 1987; Harris & Lago, 1990; Harris, 1990; Harris, O'Neil, & Lago, 1991;  
         Hicks & Haynes, 2000a; Vineyard, Wiggins, Frania, & Schefter, 2005);  
     CT (Harris, O'Neil, & Lago, 1991; Nelson & Downs, 1995;  
         Vineyard, Wiggins, Frania, & Schefter, 2005);  
     DE (Lake, 1984);  
     GA (Harris, O'Neil, & Lago, 1991; Vineyard, Wiggins, Frania, & Schefter, 2005;  
         Zhou et al., 2011);  
     MA (Neves, 1979; Vineyard, Wiggins, Frania, & Schefter, 2005; Whitmore 2008);  
     MD (Harris, O'Neil, & Lago, 1991; Vineyard, Wiggins, Frania, & Schefter, 2005);  
     ME (Blickle & Morse, 1966; Mingo & Gibbs, 1980; Bilger, 1986; Huryn & Harris, 2000;  
         Vineyard, Wiggins, Frania, & Schefter, 2005);  
     MI (Ross, 1938; Schmid, 1955; Vineyard, Wiggins, Frania, & Schefter, 2005;  
         Houghton, Brandin, & Brakel, 2011; Houghton, 2015; Houghton, 2016;  
         Houghton, DeWalt, Pytel, Brandin, Rogers, Ruiter, Bright, Hudson, & Armitage, 2018;  
         Houghton, 2022;  
         Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
     MN (Denning, 1948; Schmid, 1955; Etnier, 1965; Monson, 1997;  
         Houghton, Holzenthal, Monson, & MacLean, 2001;  
         Vineyard, Wiggins, Frania, & Schefter, 2005; Zhou et al., 2011; Houghton, 2012;  
         Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
     MS (Zhou et al., 2011);  
     NC (Lenat, 1987; DeWalt, Jacobus, & McCafferty, 2007;  
         Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010);  
     NF (Wiggins, 1961; Marshall & Larson, 1982; Vineyard, Wiggins, Frania, & Schefter, 2005);  
     NH (Morse & Blickle, 1953);  
     NJ (Vineyard, Wiggins, Frania, & Schefter, 2005);  
     NS (Vineyard, Wiggins, Frania, & Schefter, 2005);  
     NY (Denning, 1948; Schmid, 1955; Vineyard, Wiggins, Frania, & Schefter, 2005;  
         Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
     OH (McElravy, Arsuffi, & Foote, 1977; Huryn & Foote, 1983; MacLean & MacLean, 1984;  
         Armitage et al., 2011;  
         Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
     ON (Beam & Wiggins, 1987; Vineyard, Wiggins, Frania, & Schefter, 2005; Zhou et al., 2011);  
     PA (Swegman, Walker, & Sykora, 1981; Masteller & Flint, 1992;  
         Vineyard, Wiggins, Frania, & Schefter, 2005; Zhou et al., 2011);  
     QC (Roy & Harper, 1975; Roy & Harper, 1979; Harper, 1989;  
         Vineyard, Wiggins, Frania, & Schefter, 2005);  
     SC (Floyd & Morse, 1993; Vineyard, Wiggins, Frania, & Schefter, 2005);  
     TN (Etnier, Baxter, Fraley, & Parker, 1998; Vineyard, Wiggins, Frania, & Schefter, 2005);  
     VA (Parker & Voshell, 1981; Vineyard, Wiggins, Frania, & Schefter, 2005);

- Flint, Hoffman, & Parker, 2008; Flint, 2011);  
 VT (Harris, O'Neil, & Lago, 1991; Vineyard, Wiggins, Frania, & Schefter, 2005);  
 WI (Ross, 1938; Schmid, 1955; Hilsenhoff et al, 1972; Longridge & Hilsenhoff, 1973;  
 Hilsenhoff, 1975; Shapas & Hilsenhoff, 1976; Steven & Hilsenhoff, 1984;  
 Hilsenhoff, 1995; Vineyard, Wiggins, Frania, & Schefter, 2005;  
 Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
 WV (Vineyard, Wiggins, Frania, & Schefter, 2005; Tarter & Floyd, 2016).
- Neophylax ornatus* Banks, 1920, NH;  
 male & female genitalia (Marshall & Larson, 1982);  
 male & female genitalia, larva, photo of adult (Vineyard, Wiggins, Frania, & Schefter, 2005);  
 NC/SC (Unzicker, Resh, & Morse, 1982);  
 AL (Harris, 1987; Harris & Lago, 1990; Harris, 1990; Harris, O'Neil, & Lago, 1991;  
 Vineyard, Wiggins, Frania, & Schefter, 2005);  
 GA (Harris, O'Neil, & Lago, 1991; Vineyard, Wiggins, Frania, & Schefter, 2005);  
 NB (Zhou et al., 2011);  
 NC (Vineyard, Wiggins, Frania, & Schefter, 2005; DeWalt, Jacobus, & McCafferty, 2007;  
 Lenat, Ruiter, Parker, Robinson, Beaty, & Flint, 2010; Zhou et al., 2011);  
 NF (Marshall & Larson, 1982; Vineyard, Wiggins, Frania, & Schefter, 2005);  
 NH (Banks, 1920; Vineyard, Wiggins, Frania, & Schefter, 2005);  
 NJ (Vineyard, Wiggins, Frania, & Schefter, 2005);  
 NS (Banks, 1930; Schmid, 1955; Vineyard, Wiggins, Frania, & Schefter, 2005; Zhou et al., 2011);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 ON (Beam & Wiggins, 1987; Williams & Williams, 1987;  
 Vineyard, Wiggins, Frania, & Schefter, 2005);  
 PA (Masteller & Flint, 1980);  
 PE (Zhou et al., 2011);  
 QC (Roy & Harper, 1979; Vineyard, Wiggins, Frania, & Schefter, 2005);  
 SC (Vineyard, Wiggins, Frania, & Schefter, 2005);  
 TN (Etnier & Schuster, 1979; Etnier, Baxter, Fraley, & Parker, 1998;  
 DeWalt, Jacobus, & McCafferty, 2007; Zhou et al., 2011);  
 VA (Parker & Voshell, 1981; Vineyard, Wiggins, Frania, & Schefter, 2005;  
 Flint, Hoffman, & Parker, 2008; Zhou et al., 2011);  
 VT (Wimmer, 1979);  
 WV (Harris, O'Neil, & Lago, 1991; Vineyard, Wiggins, Frania, & Schefter, 2005;  
 Tarter & Floyd, 2016).
- Neophylax ottawa* Vineyard & Wiggins, 1987, ON  
 male genitalia (Vineyard & Wiggins, 1988);  
 male & female genitalia, larva (Vineyard, Wiggins, Frania, & Schefter, 2005);  
 NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);  
 ON (Vineyard & Wiggins, 1987; Vineyard, Wiggins, Frania, & Schefter, 2005).
- Neophylax rickeri* Milne, 1935, BC;  
*Neophylax pulchellus* Ling, 1938, CA (Ross, 1944);  
 wings, male & female genitalia (Nimmo, 1977);  
 larva, case (Wiggins, 1977);  
 male hindtibial spurs (Schmid, 1980);  
 larva (Vineyard & Wiggins, 1988);  
 male & female genitalia, male metatibial spurs, larva & case  
 (Vineyard, Wiggins, Frania, & Schefter, 2005);  
 photos of eggs, larva, case, pupa, & adult (Mendez & Resh, 2008);  
 AB (Nimmo, 1976; Nimmo, 1977; Vineyard, Wiggins, Frania, & Schefter, 2005);  
 AK (Vineyard, 1982; Vineyard, Wiggins, Frania, & Schefter, 2005);  
 BC (Milne, 1935; Schmid & Guppy, 1952; Ross & Spencer, 1952;  
 Schmid, 1955; Nimmo, 1977; Nimmo & Scudder, 1978;  
 Nimmo & Scudder, 1983; Williams & Williams, 1987;  
 Vineyard, Wiggins, Frania, & Schefter, 2005);

- CA (Ling, 1938; Schmid, 1955; Nimmo, 1977; Erman, 1989;  
Erman & Erman, 1990; Vineyard, Wiggins, Frania, & Schefter, 2005;  
Mendez & Resh, 2008; Resh & Mendez, 2022);
- CO (Ruiter, 1999);
- ID (Denning, 1948; Schmid & Guppy, 1952; Schmid, 1955;  
Nimmo, 1977; Vineyard, Wiggins, Frania, & Schefter, 2005);
- MT (Newell, 1970; Newell & Potter, 1973; Nimmo, 1977;  
Roemhild, 1982; Vineyard, Wiggins, Frania, & Schefter, 2005);
- OR (Anderson & Wold, 1972; Anderson, 1976; Wiggins, 1977;  
Nimmo, 1977; Anderson, Cooper, & Denning, 1982;  
Anderson, Wisseman, & Courtney, 1984;  
Wisseman & Anderson, 1984; Anderson & Hansen, 1987;  
Vineyard, Wiggins, Frania, & Schefter, 2005);
- WA (Smith, 1981; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013).
- Neophylax securis* Vineyard & Wiggins, 1987, TN;  
male & female genitalia, larva (Vineyard, Wiggins, Frania, & Schefter, 2005);
- AL (Vineyard & Wiggins, 1987; Harris, 1987; Harris & Lago, 1990;  
Harris, 1990; Harris, O'Neil, & Lago, 1991;  
Morse et al, 1997; Vineyard, Wiggins, Frania, & Schefter, 2005);
- TN (Vineyard & Wiggins, 1987; Morse et al, 1997; Etnier, Baxter, Fraley, & Parker, 1998;  
Vineyard, Wiggins, Frania, & Schefter, 2005).
- Neophylax sinuatus* Navás, 1917, MT;  
[a synonym of *N. concinnus* according to Milne, 1935];  
MT (Navás, 1917; Schmid, 1955).
- Neophylax smithi* Vineyard & Wiggins, 1987, WA;  
male & female genitalia, larva (Vineyard, Wiggins, Frania, & Schefter, 2005);  
WA (Vineyard & Wiggins, 1987; Vineyard, Wiggins, Frania, & Schefter, 2005).
- Neophylax splendens* Denning, 1948, WY;  
male & female genitalia, larva (Vineyard, Wiggins, Frania, & Schefter, 2005);
- AK (Vineyard, Wiggins, Frania, & Schefter, 2005);
- BC (Schmid, 1955; Nimmo & Scudder, 1978; Williams & Williams, 1987;  
Vineyard, Wiggins, Frania, & Schefter, 2005);
- CA (Erman, 1989; Erman & Erman, 1990; Erman, 1998;  
Vineyard, Wiggins, Frania, & Schefter, 2005; Resh & Mendez, 2022);
- CO (Herrmann, Ruiter, & Unzicker, 1986; Ruiter, 1996;  
Vineyard, Wiggins, Frania, & Schefter, 2005;  
Zuellig, Kondratieff, Ruiter, & Thorp, 2006;  
Zuellig, Heinold, Kondratieff, & Ruiter, 2012);
- ID (Newell & Minshall, 1977; Vineyard, Wiggins, Frania, & Schefter, 2005);
- MT (Newell & Potter, 1973; Roemhild, 1982; Vineyard, Wiggins, Frania, & Schefter, 2005);
- NV (Vineyard, Wiggins, Frania, & Schefter, 2005; Ruiter, Baumann, & Flint, 2014);
- OR (Anderson & Wold, 1972; Anderson, 1976; Anderson, Cooper, & Denning, 1982;  
Anderson, Wisseman, & Courtney, 1984; Wisseman & Anderson, 1984;  
Anderson & Hansen, 1987; Vineyard, Wiggins, Frania, & Schefter, 2005);
- SK (Hoemsen, Phillips, Parker, Bell, Bergsveinson, Armstrong, & Chivers, 2015);
- UT (Baumann & Unzicker, 1981; Vineyard, Wiggins, Frania, & Schefter, 2005);
- WA (Anderson & Wisseman, 1987; Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005;  
Vineyard, Wiggins, Frania, & Schefter, 2005; Blinn & Ruiter, 2013;  
Morley, Foley, Duda et al, 2020);
- WY (Denning, 1948; Schmid, 1955; Ruiter & Lavigne, 1985;  
Vineyard, Wiggins, Frania, & Schefter, 2005).
- Neophylax stollus* Ross, 1938, VA;  
male & female genitalia, larva (Vineyard, Wiggins, Frania, & Schefter, 2005);
- NY (Myers, Kondratieff, Mihuc, & Ruiter, 2011);
- PA (Masteller & Flint, 1992);



TN (Etnier, Baxter, Fraley, & Parker, 1998);  
 VA (Ross, 1938; Schmid, 1955; Parker & Voshell, 1981;  
     Morse et al, 1997; Vineyard, Wiggins, Frania, & Schefter, 2005;  
     Flint, Hoffman, & Parker, 2008);  
 WV (Hill & Tarter, 1978; Tarter, 1990; Morse et al, 1997;  
     Vineyard, Wiggins, Frania, & Schefter, 2005; Tarter & Floyd, 2016).  
*Neophylax toshioi* Vineyard & Wiggins, 1987, VA;  
     male & female genitalia, larva (Vineyard, Wiggins, Frania, & Schefter, 2005);  
     TN (Bivens & Etnier, 2010);  
     VA (Vineyard & Wiggins, 1987; Morse et al, 1997; Vineyard, Wiggins, Frania, & Schefter, 2005;  
     Flint, Hoffman, & Parker, 2008; Weaver, Spagna, & Mendez, 2019).  
*Neophylax virginica* Flint & Kjer, 2011, VA;  
     MD (Flint & Kjer, 2011);  
     VA (Flint & Kjer, 2011).  
*Neophylax wigginsii* Sykora & Weaver, 1978, PA;  
     male & female genitalia, larva (Vineyard, Wiggins, Frania, & Schefter, 2005);  
     KY (Vineyard, Wiggins, Frania, & Schefter, 2005;  
     Floyd, Moulton, Schuster, Parker, & Robinson, 2012;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
     OH (Huryn & Foote, 1981; Huryn & Foote, 1983; Vineyard, Wiggins, Frania, & Schefter, 2005;  
     Armitage et al., 2011;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
     PA (Sykora & Weaver, 1978; Masteller & Flint, 1992;  
     Vineyard, Wiggins, Frania, & Schefter, 2005);  
     TN (Etnier, Baxter, Fraley, & Parker, 1998);  
     VA (Flint, Hoffman, & Parker, 2008);  
     WV (Tarter & Hill, 1980; Tarter, 1990; Griffith & Perry, 1992; Tarter & Floyd, 2016).  
  
*Oligophlebodes ardis* Ross, 1941, CO;  
     CO (Ross, 1941; Ross, 1949; Schmid, 1955; Herrmann, Ruiter, & Unzicker, 1986;  
     Zuellig, Heinold, Kondratieff, & Ruiter, 2012; Weaver, Spagna, & Mendez, 2019);  
     WY (Ruiter, 1996).  
*Oligophlebodes minutus* (Banks, 1897), Halesus, CO;  
     *Oligophlebodes coloradensis* Ulmer, 1905, CO (Milne, 1935);  
     male & female genitalia (Ross, 1944);  
     larva (Flint, 1960);  
     male wings (Schmid, 1980);  
     AZ (Banks, 1943; Flint, 1966; Moulton, Stewart, & Young, 1994; Ruiter, 1996; Houghton, 2001;  
     Blinn & Ruiter, 2006);  
     CO (Banks, 1897; Ulmer, 1905; Dodds, & Hisaw, 1925; Ross, 1949; Schmid, 1955;  
     Canton & Ward, 1981; Herrmann, Ruiter, & Unzicker, 1986; Ward, 1986;  
     DeWalt, Stewart, Moulton, & Kennedy, 1994; Ruiter, 1996; Ruse & Herrmann, 2000;  
     Zuellig, Kondratieff, Ruiter, & Thorp, 2006;  
     Zuellig, Heinold, Kondratieff, & Ruiter, 2012; Weaver, Spagna, & Mendez, 2019);  
     ID (Newell & Minshall, 1977);  
     MI (Leonard & Leonard, 1949;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
     MT (Roemhild, 1982);  
     NM (Banks, 1904; Schmid, 1955; Weaver, Spagna, & Mendez, 2019);  
     OR (Anderson, 1967; Anderson, 1976; Anderson, Cooper, & Denning, 1982);  
     SD (Ross, 1949; Schmid, 1955; Ruiter, 1996;  
     Houghton, DeWalt, Hubbard, Schmude, Dimick, Holzenthal, Blahnik, & Snitgen, 2022);  
     UT (Knowlton & Harmston, 1939; Schmid, 1955; Baumann & Unzicker, 1981);  
     WY (Ross, 1949; Schmid, 1955; Ruiter & Lavigne, 1985; Ruiter, 1996;  
     Weaver, Spagna, & Mendez, 2019);

- YT (Ruiter, 1999).
- Oligophlebodes mostbento* Schmid, 1968, OR;  
 male genitalia (Schmid, 1980);  
 BC (Nimmo & Scudder, 1983);  
 MT (Roemhild, 1982);  
 OR (Schmid, 1968; Anderson, 1976; Lonsdale, 2020).
- Oligophlebodes ruthae* Ross, 1944, MT;  
 male & female genitalia (Ross, 1944);  
 wings, male & female genitalia (Nimmo, 1971);  
 male genitalia (Vineyard, Wiggins, Frania, & Schefter, 2005);  
 AB (Ross, 1949; Nimmo, 1971; Weaver, Spagna, & Mendez, 2019);  
 BC (Ross & Spencer, 1952; Nimmo, 1971; Nimmo & Scudder, 1978, 1983);  
 CA (Resh & Mendez, 2022);  
 ID (Newell & Minshall, 1977);  
 MT (Ross, 1944; Schmid, 1955; Newell, 1970; Nimmo, 1971; Newell & Potter, 1973;  
 Roemhild, 1982);  
 NV (Ruiter, Baumann, & Flint, 2014);  
 OR (Ross, 1949; Nimmo, 1971; Anderson, 1976);  
 UT (Nimmo, 1971; Baumann & Unzicker, 1981);  
 WA (Anderson & Wisseman, 1987; Weaver, Spagna, & Mendez, 2019);  
 WY (Ross, 1949; Nimmo, 1971; Ruiter & Lavigne, 1985; Weaver, Spagna, & Mendez, 2019);  
 YT (Wiggins & Parker, 1997).
- Oligophlebodes sierra* Ross, 1944, CA;  
 male & female genitalia (Nimmo, 1971);  
 female genitalia (Schmid, 1980);  
 female genitalia, male phallus (Vineyard & Wiggins, 1988);  
 phallus & female genitalia (Vineyard, Wiggins, Frania, & Schefter, 2005);  
 AB (Nimmo, 1971; Weaver, Spagna, & Mendez, 2019);  
 AK (Vineyard, 1982);  
 BC (Ross & Spencer, 1952; Nimmo, 1971; Nimmo & Scudder, 1983;  
 Weaver, Spagna, & Mendez, 2019);  
 CA (Ross, 1944; Schmid, 1955; Denning, 1956; Nimmo, 1971; Erman, 1989; Givens, 2014;  
 Resh & Mendez, 2022);  
 CO (Nimmo, 1971; Herrmann, Ruiter, & Unzicker, 1986);  
 ID (Smith, 1965; Nimmo, 1971; Newell & Minshall, 1977);  
 MT (Roemhild, 1982);  
 NV (Ruiter, Baumann, & Flint, 2014);  
 OR (Ross, 1949; Nimmo, 1971; Anderson, 1976; Anderson, Cooper, & Denning, 1982);  
 UT (Baumann & Unzicker, 1981);  
 WA (Schmid, 1968; Nimmo, 1971; Anderson & Wisseman, 1987;  
 Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013;  
 Weaver, Spagna, & Mendez, 2019);  
 WY (Ross, 1949; Nimmo, 1971; Ruiter & Lavigne, 1985; Ruiter, 1996;  
 Weaver, Spagna, & Mendez, 2019);  
 YT (Wiggins & Parker, 1997).
- Oligophlebodes sigma* Milne, 1935, UT;  
 AZ (Blinn & Ruiter, 2006);  
 CO (Herrmann, Ruiter, & Unzicker, 1986);  
 MT (Roemhild, 1982);  
 NM (Milne, 1935; Schmid, 1955);  
 NV (Ruiter, Baumann, & Flint, 2014);  
 UT (Milne, 1935; Ross, 1949; Schmid, 1955; Weaver, Spagna, & Mendez, 2019);  
 WA (Smith, 1981).
- Oligophlebodes zelti* Nimmo, 1971, AB;  
 AB (Nimmo, 1971; Ogilvie, 1988; Lonsdale, 2020);

MT (Roemhild, 1982);  
WY (Swegmen & Ferrington, 1980; Ruiter & Lavigne, 1985);  
YT (Nimmo & Wickstrom, 1984; Wiggins & Parker, 1997).

Uenoidae (3 genera, 20 species) —Stone-case Caddisflies

- Farula constricta* Wiggins & Wisseman, 1992, OR;  
OR (Wiggins & Wisseman, 1992).
- Farula davisii* Denning, 1958, OR;  
OR (Denning, 1958; Anderson, 1976; Wiggins, Weaver, & Unzicker, 1985;  
Wiggins & Wisseman, 1992).
- Farula geyseri* Denning, 1989, CA;  
male genitalia of holotype (Wiggins & Wisseman, 1992);  
CA (Denning, 1989; Wiggins & Wisseman, 1992; Resh & Mendez, 2022).
- Farula honeyi* Denning, 1973, CA;  
CA (Denning, 1973; Wiggins, Weaver, & Unzicker, 1985; Wiggins & Wisseman, 1992;  
Resh & Mendez, 2022).
- Farula jewetti* Denning, 1958, OR;  
wings, male & female genitalia (Schmid, 1968);  
female wings, male hindwing, male & female genitalia (Schmid, 1980);  
larva, case (Wiggins, 1977; Wiggins, Weaver, & Unzicker, 1985);  
OR (Denning, 1958; Schmid, 1968; Anderson, 1976; Wiggins, 1977;  
Wiggins, Weaver, & Unzicker, 1985; Wiggins & Wisseman, 1992).
- Farula klahhane* Lee, 2016, WA;  
male & female genitalia (Lee, 2016);  
WA (Lee, 2016).
- Farula malkini* Ross, 1950, OR;  
larva, pupa, female genitalia (Denning, 1973);  
photo of larva in case (Anderson, 1976);  
larval maxillolabium, female wings, male & female genitalia  
(Wiggins, Weaver, & Unzicker, 1985);  
OR (Ross, 1950; Denning, 1958; Anderson & Wold, 1972;  
Anderson, 1976; Wiggins, Weaver, & Unzicker, 1985; Wiggins & Wisseman, 1992).
- Farula moweri* Ruiter, 2003, CA;  
CA (Ruiter, 2003; Resh & Mendez, 2022).
- Farula petersoni* Denning, 1973, CA;  
*Farula wigginsii* Denning, 1983 ("1982"), CA (Wiggins & Wisseman, 1992);  
CA (Denning, 1973; Denning, 1983 ("1982")); Wiggins, Weaver, & Unzicker, 1985;  
Wiggins & Wisseman, 1992; Lee, 2016; Resh & Mendez, 2022).
- Farula praelonga* Wiggins & Erman, 1987, CA;  
CA (Wiggins & Erman, 1987; Wiggins & Wisseman, 1992; Resh & Mendez, 2022).
- Farula rainieri* Milne, 1936, WA;  
female genitalia (Schmid, 1968);  
OR (Denning, 1973; Anderson, 1976;  
Wiggins, Weaver, & Unzicker, 1985; Wiggins & Wisseman, 1992);  
WA (Milne, 1936; Ross, 1950; Denning, 1958; Schmid, 1968;  
Schmid, 1980; Wiggins, Weaver, & Unzicker, 1985; Wiggins & Wisseman, 1992;  
Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005).
- Farula reapiiri* Schmid, 1968, OR;  
OR (Schmid, 1968; Anderson, 1976; Wiggins, Weaver, & Unzicker, 1985;  
Wiggins & Wisseman, 1992; Lonsdale, 2020).
- Neothremma alicia* Banks, 1925, CO (in the work of Dodds & Hisaw, 1925);  
*Neothremma laloukesi* Schmid, 1968, AB  
(Wiggins, Weaver, & Unzicker, 1985);  
male & female genitalia (Ross, 1949);

larva (Flint, 1960);  
 internal female genitalia (Unzicker, 1968);  
 male maxillary palp, wings, male & female genitalia (Nimmo, 1971);  
 larva, case, (Wiggins, 1977);  
 male genitalia (Schmid, 1980);  
 larva, case, female head, thorax, wings; male maxillary palp  
 (Wiggins, Weaver, & Unzicker, 1985);  
 Canada (Neave & Bajkov, 1929);  
 Rocky & interior mountain ranges from CO & UT to AB & BC (Wiggins & Wisseman, 1992);  
 AB (Schmid, 1968; Nimmo, 1971; Wiggins, Weaver, & Unzicker, 1985;  
 Williams & Williams, 1987; Ogilvie, 1988; Williams, 1991; Lonsdale, 2020);  
 BC (Nimmo, 1971; Wiggins, Weaver, & Unzicker, 1985;  
 Nimmo & Scudder, 1978; Williams & Williams, 1987;  
 Williams, 1991);  
 CA (Flint, 1960; Wiggins, Weaver, & Unzicker, 1985; Resh & Mendez, 2022);  
 CO (Dodds & Hisaw, 1925; Banks, 1930; Schmid, 1955, didactyla  
 according to Wiggins, Weaver, & Unzicker, 1985; Nimmo, 1971; Mecom, 1972;  
 Allan, 1975; Canton & Ward, 1978; Ward, 1981; Wiggins, Weaver, & Unzicker, 1985;  
 Herrmann, Ruiter, & Unzicker, 1986; Ward, 1986;  
 DeWalt, Stewart, Moulton, & Kennedy, 1994; Ruiter, 1996;  
 Zuellig, Kondratieff, Ruiter, & Thorp, 2006;  
 Zuellig, Heinold, Kondratieff, & Ruiter, 2012);  
 ID (Denning, 1966; Nimmo, 1971; Newell & Minshall, 1977; Wiggins, 1977;  
 Wiggins, Weaver, & Unzicker, 1985);  
 MT (Nimmo, 1971; Roemhild, 1982;  
 Wiggins, Weaver, & Unzicker, 1985; Stagliano, 2008);  
 OR (Nimmo, 1971; Anderson, 1976;  
 Wiggins, Weaver, & Unzicker, 1985);  
 UT (Denning, 1966; Nimmo, 1971; Baumann & Unzicker, 1981;  
 Wiggins, Weaver, & Unzicker, 1985);  
 WA (Wiggins, Weaver, & Unzicker, 1985);  
 WY (Denning, 1966; Nimmo, 1971; Swegman & Ferrington, 1980;  
 Wiggins, Weaver, & Unzicker, 1985; Ruiter & Lavigne, 1985;  
 Ruiter, 1996).  
*Neothremma andersoni* Wiggins, 1975, OR;  
 male & female genitalia (Wiggins, Weaver, & Unzicker, 1985);  
 OR (Wiggins, 1975; Anderson, 1976; Wiggins, Weaver, & Unzicker, 1985).  
*Neothremma didactyla* Ross, 1949, WA;  
*Neothremma galena* Denning, 1949, WA (Denning, 1966;  
 Wiggins, Weaver, & Unzicker, 1985);  
 figures 66, 67, Schmid, 1955, are of *didactyla*, not *alicia*  
 (Wiggins, Weaver, & Unzicker, 1985);  
 wings, female genitalia (Schmid, 1968);  
 female wings, male hindwing, female genitalia (Schmid, 1980);  
 coastal mountains and the Cascade Range from OR North to YT (Wiggins & Wisseman, 1992);  
 BC (Nimmo & Scudder, 1978; Wiggins, Weaver, & Unzicker, 1985; Williams, 1991);  
 OR (Denning, 1949; Denning, 1966; Schmid, 1968; Anderson, 1976;  
 Anderson, Cooper, & Denning, 1982; Anderson, Wisseman, & Courtney, 1984;  
 Wiggins, Weaver, & Unzicker, 1985);  
 WA (Ross, 1949; Denning, 1949; Schmid, 1955; Smith, 1981;  
 Wiggins, Weaver, & Unzicker, 1985; Anderson & Wisseman, 1987;  
 Ruiter, Kondratieff, Lechleitner, & Zuellig, 2005; Blinn & Ruiter, 2013);  
 YT (Wiggins, Weaver, & Unzicker, 1985; Wiggins & Parker, 1997).  
*Neothremma genella* Denning, 1966, CA;  
 female genitalia (Wiggins & Erman, 1987);

- CA (Denning, 1966; Wiggins, Weaver, & Unzicker, 1985; Wiggins & Erman, 1987; Resh & Mendez, 2022).
- Neothremma mucronata* Wiggins & Wisseman, 1992, CA;  
CA (Wiggins & Wisseman, 1992; Givens, 2014; Resh & Mendez, 2022).
- Neothremma prolata* Wiggins & Wisseman, 1992, OR;  
OR (Wiggins & Wisseman, 1992).
- Neothremma siskiyou* Denning, 1975, CA;  
CA (Denning, 1975; Wiggins, Weaver, & Unzicker, 1985; Resh & Mendez, 2022).
- Sericostriata surdickae* Wiggins, Weaver, & Unzicker, 1985, MT;  
wings, male & female genitalia (Vineyard & Wiggins, 1988);  
male & female genitalia (Vineyard, Wiggins, Frania, & Schefter, 2005);  
ID (Wiggins, Weaver, & Unzicker, 1985);  
MT (Wiggins, Weaver, & Unzicker, 1985).
- Xiphocentronidae (2 genera, 2 species) —Xiphocentronid Caddisflies
- Cnodocentron yavapai* Moulton & Stewart, 1997, AZ;  
male, larva, pupa (Moulton & Stewart, 1997);  
female (Ruiter, 2006);  
AZ (Moulton, Stewart, & Young, 1994; Moulton & Stewart, 1997; Blinn & Ruiter, 2006).
- Xiphocentron messapus* Schmid, 1982, TX;  
larva, pupa (Edwards, 1961, and Wiggins, 1977, as *Xiphocentron mexico* according to Wiggins, 1996);  
male genitalia (Armitage & Hamilton, 1990);  
larva (Wiggins, 1996);  
TX (Edwards, 1961, and Edwards, 1973, and Wiggins, 1977, as *Xiphocentron mexico* according to Wiggins, 1996; Schmid, 1982; Armitage & Hamilton, 1990; Moulton & Stewart, 1997; Bowles, Tiemann, & Easley, 2007).