

## EIAA HAP Classifications and Banned Plants

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This list contains an alphabetic listing by Genus and species. Follow across to determine the classification for vegetative reproduction. The list also contains the information on which species are banned from the HAP, due to listing on the United States Fish and Wildlife Service (USFWS). There are also notes indicated which show on the last page of the listing which will help explain status and identification. Following the vegetative classifications are the point value information for flowering and sexual reproduction.

Classification points are as follows: Class A = 5, B = 10, C = 15, D = 20. Class E and F are awarded according to the schedule under the classification explanations following the species list.

Scientific Name (Binomial)	Common Name	Class	Notes
<i>Aldrovanda vesiculosa</i>		D	
<i>Alternanthera reineckii</i>		C	Note 2
<i>Alternanthera sessilis</i>			<b>BANNED</b>
<i>Alternanthera</i> sp. (other)		C	Note 2
<i>Alisma plantago</i>	Water Plantain	A	
<i>Ambulia</i> sp.		B	
<i>Anubias barteri</i> v nana	Anubias Nana	C	Note 4
<i>Anubias barteri</i> v nana 'petite'	Anubias Nana Petite	C	Note 4
<i>Anubias</i> sp. (other)		C	Note 2 & 4
<i>Aponogeton boivianus</i>		D	Note 3
<i>Aponogeton capuronii</i>		D	Note 3
<i>Aponogeton crispus</i>		C	Note 3
<i>Aponogeton</i> x <i>hybridus</i>		C	Note 3
<i>Aponogeton longiplumulosus</i>		D	Note 3
<i>Aponogeton madagascariensis</i>	Madagascar Lace	D	Note 3
<i>Aponogeton rigidifolius</i>		C	Note 3
<i>Aponogeton ulvaceus</i>		C	Note 3
<i>Aponogeton undulatus</i>		C	Note 3
<i>Aponogeton</i> sp. (other)		C	Notes 2 & 3
<i>Azolla</i> sp.		A	
<i>Bacopa</i> sp.		B	
<i>Cabomba caroliniana</i>		B	
<i>Cabomba</i> sp. (other)		B	Note 2
<i>Calla palustris</i>	Water Arum	A	
<i>Cardamine</i> sp.		B	
<i>Caulerpa mexicana</i>		B	
<i>Ceratophyllum demersum</i>	Hornwort	A	
<i>Ceratophyllum</i> sp. (other)		A	
<i>Ceratopteris siliquosa</i>	Water Sprite		Now <i>C. thalictroides</i>
<i>Ceratopteris thalictroides</i>	Java Water Sprite	A	
<i>Ceratopteris</i> sp. (other)		A	
<i>Colocasia esculenta</i>	Taro Elephant Ear	A	

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Crinum sp. (all except as shown below)		D	
Crinum sp. (possible thaianum)		C	Note 5
Cryptocoryne affinis		C	
Cryptocoryne cordata (other varieties)		C	
Cryptocoryne cordata v. cordata		D	
Cryptocoryne crispatula		C	
Cryptocoryne crispatula v. balansae		C	
Cryptocoryne crispatula v. tonkinensis		C	
Cryptocoryne nevillei		D	Note 6
Cryptocoryne pontederiifolia		C	
Cryptocoryne undulata		C	
Cryptocoryne usteriana		C	
Cryptocoryne walkeri		C	
Cryptocoryne wendtii		C	
Cryptocoryne wendtii v 'red'		C	
Cryptocoryne x willisii		C	
Cryptocoryne sp.		C	Note 2
Cyperus alternifolius	Umbrella Plant	A	
Cyperus sp. (other)		A	
Cyperus sp.	Dwarf Papyrus	A	
Didiplis diandra	Blood Stargrass	C	
Echinodorus bleheri	Amazon Sword		See E. grisebachii
Echinodorus cordifolius	Radicans Sword	C	
Echinodorus grisebachii	Amazon Sword	C	
Echinodorus paniculatus	Amazon Sword	C	
Echinodorus parviflorus		C	
Echinodorus quadricostatus	Pygmy Chain Sword		See Helianthium bolivianum
Echinodorus tenellus	Dwarf Sword		See Helianthium tenellum
Echinodorus sp. (other)		C	
Egeria densa	Anacharis	A	
Egeria najas	Narrow leaf Anacharis	A	
Eichhornia azurea			<b>BANNED</b>
Eichhornia crassipes	Water Hyacinth	C	
Eichhornia sp. (other)		C	
Elatine triandra		C	
Eleocharis acicularis	Dwarf Hairgrass	B	
Eleocharis parvula	Dwarf Hairgrass	B	
Eleocharis sp.		B	
Elodea	Anacharis	A	Note 8 and see Egeria
Elodea canadensis		A	
Elodea sp.		A	

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Fissidens fontanus	Phoenix Moss	A	
Fissidens sp.		A	
Fontinalis sp.		B	
Glossostigma elatinoides		C	
Helanidium bolivianum	Pygmy Chain Sword	B	
Helanidium tenellum	Dwarf Sword	B	
Hemianthus callitrichoides	HC	C	Note 4
Hemianthus micranthemoides	Pearlweed	C	Note 4
Heterandria sp.			See Heteranthera
Heteranthera sp.		B	
Hydrilla sp.		B	
Hydrocleys nymphoides	Water Poppy	B	
Hydrocotyle tripartita	Hydrocotyle "Japan"	B	
Hydrocotyle sibthorpioides	Pennywort	B	
Hydrocotyle sp. (other)	Pennyworts	B	
Hygrophila corymbosa		A	
Hygrophila difformis	Wisteria	A	
Hygrophila polysperma			<b>BANNED</b>
Hygrophila polysperma v. rosaefolia		A	
Hygrophila stricta	Giant Hygro	A	
Hygrophila sp. (other)		A	
Isoetes sp.		C	
Lagenandra sp.		D	
Lemna minor	Duckweed	A	
Lemna trisulca		A	
Lemna sp. (other)		A	
Lilaeopsis sp.		A	
Limnophila aromatica		B	
Limnophila sp. (other)		B	
Lobelia sp.		B	
Ludwigia arcuata x repens		B	
Ludwigia brevipes	Long Beach Primrose	B	
Ludwigia repens		B	
Ludwigia sp. (other)		B	Note 2
Marsilea minuta	Dwarf Clover	C	
Marsilea sp.		C	
Mayaca fluviatilis	Marsh Moss	B	
Micranthemum umbrosum	Baby Tears	B	
Microsorium pteropus	Java Fern	C	
Microsorium pteropus v 'Dwarf'	Dwarf Java Fern	C	

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Microsorium pteropus v 'Narrow Leaf'	Narrow Leaf Java Fern	C	
Microsorium pteropus v 'Needle Leaf'	Needle Leaf Java Fern	C	
Myriophyllum sp.		B	
Najas sp.		B	
Nitella sp.		B	
Nomophila sp.			See Hygrophila
Nuphar japonica	Spatterdock	D	
Nuphar lutea	Spatterdock	D	
Nuphar sp. (other)		B	Note 2
Nymphaea pubescens	Water Lily	B	
Nymphoides aquatica	Banana Plant	B	
Nymphoides peltata	Floating Heart	B	
Nymphoides sp.		B	
Ottelia alismoides		D	
Papyrus sp.			Note 7
Phyllanthus fluitans	Red Root Floater	A	
Pistia sp.		C	
Pistia stratiotes	Water Lettuce	C	
Plantago sp.		A	
Platustris sp.		A	
Pogostemon helferi	Downoi	C	
Potamogeton lucens		B	
Potamogeton sp.		B	
Ranunculus papulentus		C	
Riccia fluitans	Riccia	A	
Riccia sp.		A	
Riccia sp. 'Dwarf'	Dwarf Riccia	A	
Rotala rotundifolia		B	
Rotala sp. (other)		B	Note 2
Sagittaria graminea		A	
Sagittaria latifolia	Arrowhead	A	
Sagittaria montevidensis	Arrowhead	A	
Sagittaria sagittifolia			<b>BANNED</b>
Sagittaria subulata	Dwarf Sag	A	
Sagittaria subulata	Narrow Leaf Sag	A	
Sagittaria sp. (other)		A	
Salvinia auriculata			<b>BANNED</b>
Salvinia natans		A	
Salvinia sp. (other)		A	
Samolus valerandi		B	
Spathiphyllum wallisii		B	

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<i>Spirodela polyrrhiza</i>	Giant Duckweed	A
<i>Synnema triflorum</i>	Water Wisteria	B
<i>Taxiphyllum barbieri</i>	Java Moss	A
<i>Taxiphyllum</i> sp. (other)		A
<i>Taxiphyllum</i> sp.	Flame Moss	A
<i>Taxiphyllum</i> sp.	Spiky Moss	A
<i>Trapa natans</i>		C
<i>Typha angustifolia</i>	Narrow Leaf Cattail	A
<i>Typha latifolia</i>	Broad Leaf Cattail	A
<i>Utricularia</i> sp.		B
<i>Vallisneria americana</i>		A
<i>Vallisneria americana</i> v 'Mini Twister'	Corkscrew Val	A
<i>Vallisneria nana</i>	Jungle Val	A
<i>Vallisneria</i> sp. (other)		A
<i>Vallisneria spiralis</i>	Italian Val	A
<i>Vesicularia dubyana</i>	Singapore Moss	A
<i>Vesicularia ferriei</i>	Weeping Moss	A
<i>Vesicularia</i> sp. (other)		A
<i>Wolffia</i> sp.	Water Meal	A

### CLASS E – FLOWERING

Points and recognition equal to the original Class value of the plants. (Minimum point value is 10 points - ie: A 5 point plant flowering will be given 10 points)

### CLASS F - SEXUAL REPRODUCTION OF PLANTS

Points and recognition equal to the original Class value of the plant. (Minimum point value is 10 points - ie: A 5 point plant reproduced sexually will be given 10 points)

### NOTES

- 1) *Vesicularia dubyana* (Java Moss) submitted before 2015 were changed to *Taxiphyllum barbieri* since these were actually likely the species *Taxiphyllum barbieri*. Even now, it is likely that the species sold as *Vesicularia dubyana*, or Java Moss is actually *Taxiphyllum barbieri*. *Vesicularia dubyana* is, however, a legitimate and recognized species which is sold as Singapore Moss.
- 2) Some species in these genera are possibly going to be classified as more or less difficult than the current classification shown for these genera. Review more obscure species with the HAP Chair to determine whether you are propagating a species that is more difficult than the commonly available species from the local sources. *Alternanthera reineckii* has color variations, some of which have shown to be difficult to propagate.
- 3) *Aponogeton* species are often hybridized in culture, and some hybrids do occur naturally. There is considerable variation in these hybrids and they may be difficult to distinguish from some species. Certain species, such as *ulvaceus*, *madagascariensis*, *boivianus*, etc are readily distinguishable from these hybrids. However, any attributes that may make a species difficult to identify may be due to hybridization and will be treated as such with submissions to the HAP. *Aponogeton madagascariensis* and its various varieties are all classified as class D. Some species are easy to grow but difficult to propagate, so classifications are based on propagation; not on ease of growth.

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- 4) Reclassified since first publication of this list.
- 5) *Crinum* sp. (possible *thaianum*) is a narrow-leafed small plant which is easier to propagate by bulb offshoots than other species in *Crinum*. Other species must reach a high degree of growth before propagation occurs.
- 6) *Cryptocoryne nevillei* is the true *nevillei*. Species sold as *nevillei* are usually either *x willissii* or *parva*. The species *nevillei* is difficult and may be only a bog species, not surviving in the aquarium. However, we will allow this species in the HAP if it is propagated and positively identified.
- 7) This genus no longer contains valid species. Genus *Papyrus* – refer to *Cyperus*.
- 8) Plants of *Egeria* genus have been sold as *Anacharis* or *Elodea*. *Anacharis* is a valid name for a similar plant occurring in Northern USA waters but requires cooler temperatures than *Egeria* species. *Egeria densa* is the most common plant sold as *Anacharis* or *Elodea* in fish stores. *Egeria najas* has a slightly toothed edge and more curve to the leaves.