MVTURK 2026

Mohawk Valley Trout Unlimited River Keepers



TROUT UNLIMITED

Every River Needs A Champion

2026 Methods

- Wisconsin WAV model - monthly
- NYS DEC WAVE macroinvertebrates
- Continuous Temp / DO Sensors - Hamilton C
- Chemistry sampling – Hamilton C/SHARC
- E-Coli sampling – Oriskany / Big
- Redds Survey – Oriskany

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Mohawk Valley Trout Unlimited River Keepers (MVTURK)

- Volunteer Accessment Mohawk Valley Region Streams



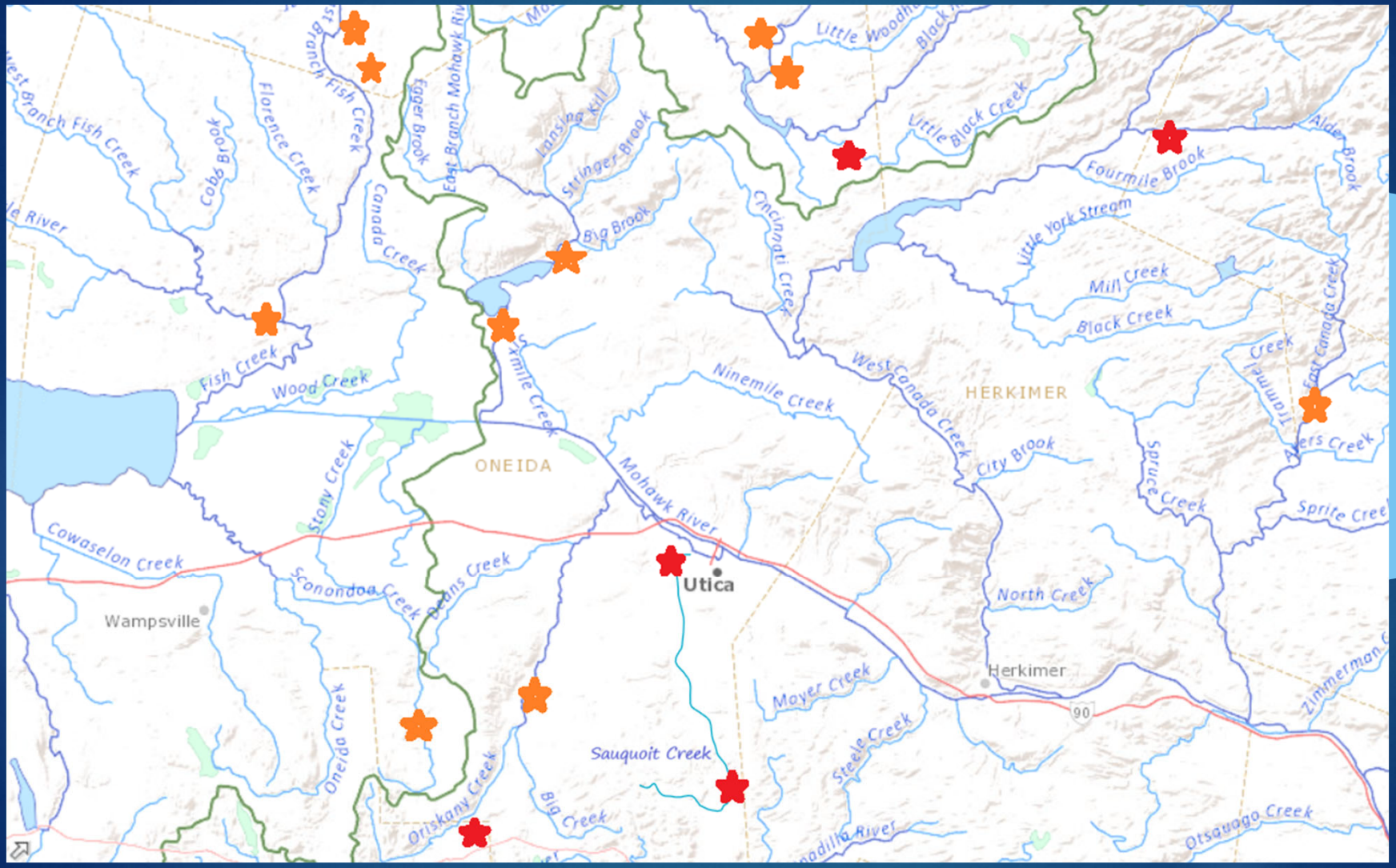
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When and Where

- May to October
- About 1-2 hours per visit
- 1-4 volunteers per visit
- Plus water samples – SHARC/HC

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Little Woodhull Creek
Little Black Creek
Fourmile Brook
Alder Brook
Little York Stream
Mill Creek
Black Creek
Cincinnati Creek
Big Brook
Stringer Brook
Lansing Kill
East Branch Mohawk River
Eager Brook
Canada Creek
Florence Creek
Cobb Brook
West Branch Fish Creek
Fish Creek
Wood Creek
Ninemile Creek
West Canada Creek
HERKIMER
East Canada Creek
City Brook
Spruce Creek
Sprite Creek
ONEIDA
Stony Creek
Mohawk River
Utica
Cowaselon Creek
Sconondoa Creek
Deans Creek
Wampsville
North Creek
Herkimer
Moyer Creek
Steele Creek
Sauquoit Creek
Oneida Creek
Oriskany Creek
Big Creek
Otsquago Creek
90

2026 Stream List

- E Canada
- SB W Canada
- L Black
- Woodhull
- Little Woodhull
- Mohawk (2)
- Point Rock
- EB Fish
- WB Fish
- Sconondoa
- Oriskany (2)
- Sauquoit (2)

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2026 Summary

- 61 Stream Monitoring Events
- 15 Monitoring Locations on 12 streams
- 70 A/C Water Samples on 25 streams
- 24 Volunteers
- Over 300 hours of volunteer time
- Equipment (~$1600)

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What we measure - MVTURK

- Temperature (Water/Air)
- pH, Nitrates, Hardness
- Dissolved Oxygen
- Flow Rate
- Transparency (Turbitity)
- Macroinvertebrates



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Water Action Volunteers Stream Monitoring Data Recording Form - Version 2015.1.4

Station Info

WAV Station Number*: _____ Date*: ___/___/___ Time*: _____ AM ○

WAV Station Name*: _____

Team Member Name(s)*: _____

Weather

Weather: (choose one) Sunny ○ Partly Sunny ○ Cloudy ○ Rain ○ Snow ○ Thunderstorms ○

Sampling Date: (choose one) Primary ○ Safety ○ Other ○

Weather over past two days: _____

Current Stream Condition: (choose one) Normal ○ Flooding ○ Dry ○ Stagnant ○ Frozen ○ Other _____

Observations: _____

WAV Monitoring Parameters

Parameters Tested	Your Results	Units
Air Temperature		˚C
Water Temperature		˚C
Dissolved Oxygen (D.O.) Sampling Method	Choose One: Hach Kit ○ LaMotte Kit ○ YSI 550A Meter ○ Other: _____	
D.O. mg/L	No. of Titration Drops: _____ No. of Plastic Measuring Tubes: _____ Dissolved Oxygen Content: _____	mg/L
D.O. % Saturation		%
pH		-
Transparency	Tube Length (select one) / Trial #1 / Trial #2 / Average 60 cm ○ 100 cm ○ 120 cm ○	- / cm
Specific Conductance	ECTestr reading: _____ (choose units displayed) ms/cm ○ µS/cm ○	
Chloride Sample	Collected? Y ○ N ○ Point/Outfall Number: _____	
Total Phosphorus Sample	Collected? Y ○ N ○ Point/Outfall Number: _____	

WAV Monitoring Parameters

Was streamflow monitored this sampling event? Yes ○ No ○

If No, why not? _____

Length Assessed _____ ft

Stream Width*: _____ ft

*if stream ≤ 20 ft. wide, measure depth every foot across the width. If stream is > 20 ft. wide, measure depth at 20 equal intervals across the entire width

Stream Depth Measurements

Point	Depth (10ths Feet)	Point	Depth (10ths Feet)
1	0	11	
2		12	
3		13	
4		14	
5		15	
6		16	
7		17	
8		18	
9		19	
10		20	

Depth Conversion Chart

Ft/in	10ths Ft	Ft/in	10ths Ft
¾-¾	0.05	6⅝-6¾	0.55
1-1⅛	0.1	7-7⅛	0.6
1⅛-2	0.15	7⅛-8	0.65
2⅛-2⅜	0.2	8⅛-8⅜	0.7
2⅜-3⅛	0.25	8⅜-9⅛	0.75
3⅜-3⅝	0.3	9⅜-9⅝	0.8
4-4⅛	0.35	10-10⅜	0.85
4½-5	0.4	10½-11	0.9
5⅛-5⅜	0.45	11⅛-11⅜	0.95
5⅜-6¼	0.5	11⅜-12	1.0

Velocity Float Trials

Trial Number	Time (Seconds)
1	
2	
3	
4	

Velocity Correction Factor

Choose the bottom type:

Rough	0.8 ○
Smooth	0.9 ○

Monitoring Equipment Calibration

D.O. Meter: Yes ○ No ○

pH Meter: Yes ○ No ○

ECTestr: Yes ○ No ○

Equipment Cleaning and Disinfection

Boots/Waders/Footwear and other monitoring materials cleaned and disinfected? Yes ○ No ○

Expected Ranges for Parameters

Water Temperature:	12-30 ˚C
Dissolved Oxygen:	5-10 mg/L
D.O % Saturation:	80-120%
pH:	6.0-9.0
Transparency Tube:	≤120 cm

Thermistor

Serial #: _____ Type: HOBO (long grey) ○ TIDBIT (yellow) ○ TIDBIT V2 (orange) ○

Activity Performed (choose one): Deployment ○ Retrieval ○ Monthly Check ○

Deployment/Retrieval Time: _____ AM ○ Monthly Check - thermistor submersed Yes ○ No ○

Describe location of thermistor if you deployed it today, or action(s) taken if thermistor was not submersed:

Biotic Index *(monitored in May and late September/early October)*

**You may use the *Key to Macroinvertebrate Life in the River* to help you identify macroinvertebrates.

Group 1: These are sensitive to pollutants. Select each animal found.


Stonefly Larva ☐


Dobsonfly Larva ☐

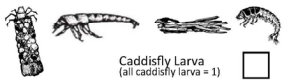

Alderfly Larva ☐

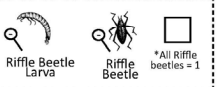

Water Snipe Fly Larva ☐

No. of group 1 animals circled: ☐

Relative Size Key: = larger than picture; = smaller than picture

Group 2: These are semi-sensitive to pollutants. Select each animal found.


Caddisfly Larva (all caddisfly larva = 1) ☐


Riffle Beetle Larva ☐ Riffle Beetle ☐ *All Riffle beetles = 1


Crane Fly Larva ☐

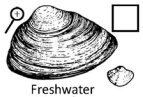

Water Penny ☐


Crayfish ☐


Dragonfly Larva ☐


Mayfly Larva ☐


side view of "tails"
Damselfly Larva ☐


Freshwater Mussel or Fingernail Clam ☐

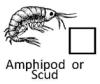
No. of group 2 animals circled: ☐

Group 3: These are semi-tolerant of pollutants. Select each animal found.


Black Fly Larva ☐


Non-Red Midge Larva ☐


Snails: Orb or Gilled (right side opening) ☐ *All Snails = 1

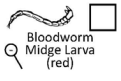

Amphipod or Scud ☐

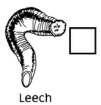
No. of group 3 animals circled: ☐

Group 4: These are tolerant of pollutants. Select each animal found.


Pouch Snail ☐


Aquatic Sowbug or Isopod ☐


Bloodworm Midge Larva (red) ☐


Leech ☐

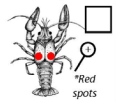

Tubifex Worm ☐

No. of group 4 animals circled: ☐

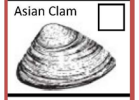
Key Aquatic Invasive Species (AIS)

Circle AIS shown below if you think you found any:

Rusty Crayfish ☐


*Red spots

Asian Clam ☐



New Zealand Mudsnail ☐



Faucet Snail ☐



If found, collect a sample and detailed photos, and report to DNR or WAV.

Date data entered into SWIMS? ___/___/___ Data Entry Volunteer Initials: _____

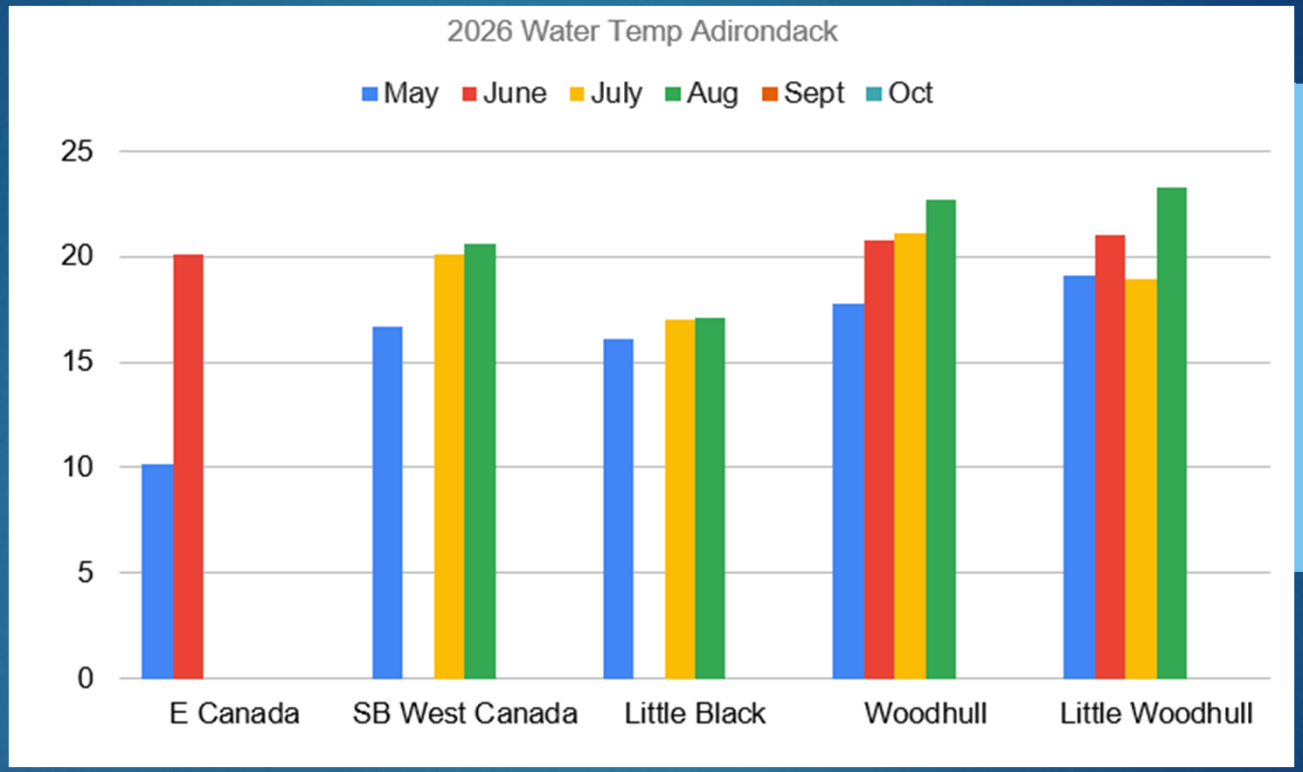
Download and print data sheets from www.wateractionvolunteers.org.

For more information, call (608) 331-0173, or email wav@extension.wisc.edu.

WAV WATER ACTION VOLUNTEERS

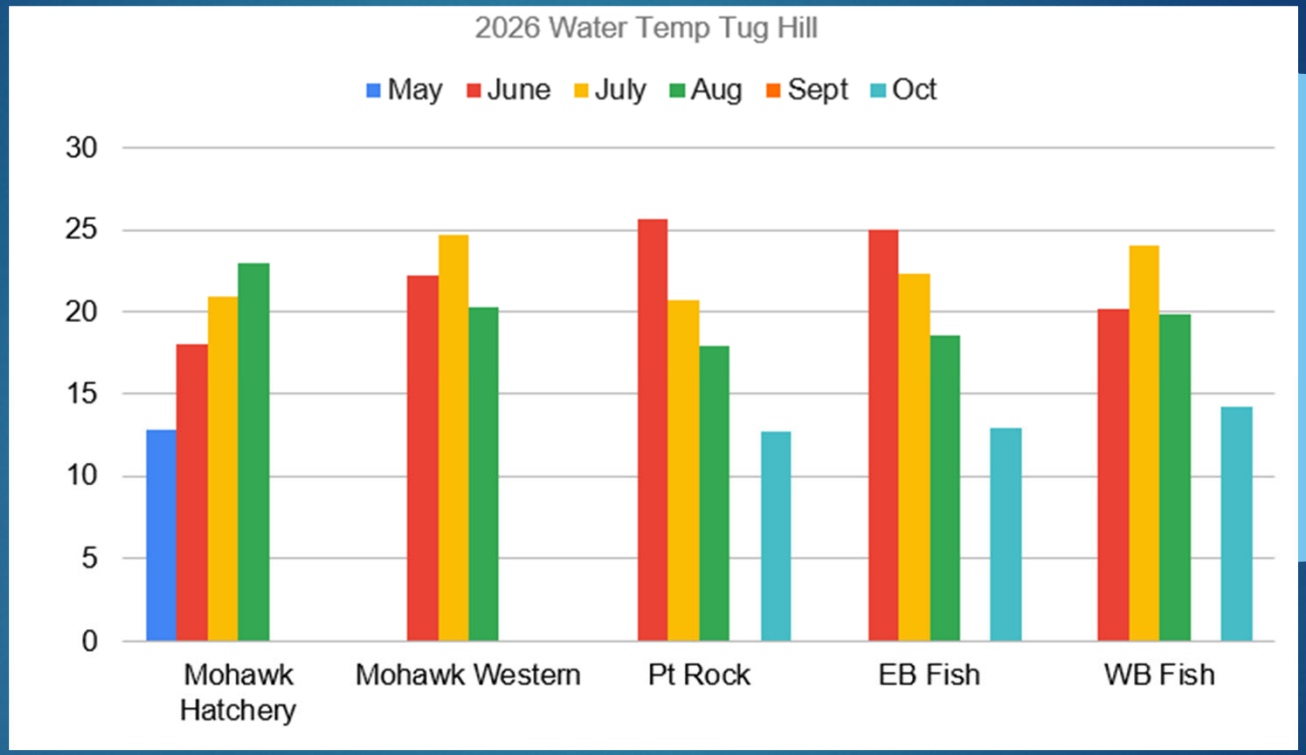


Water Temp (C) Adk



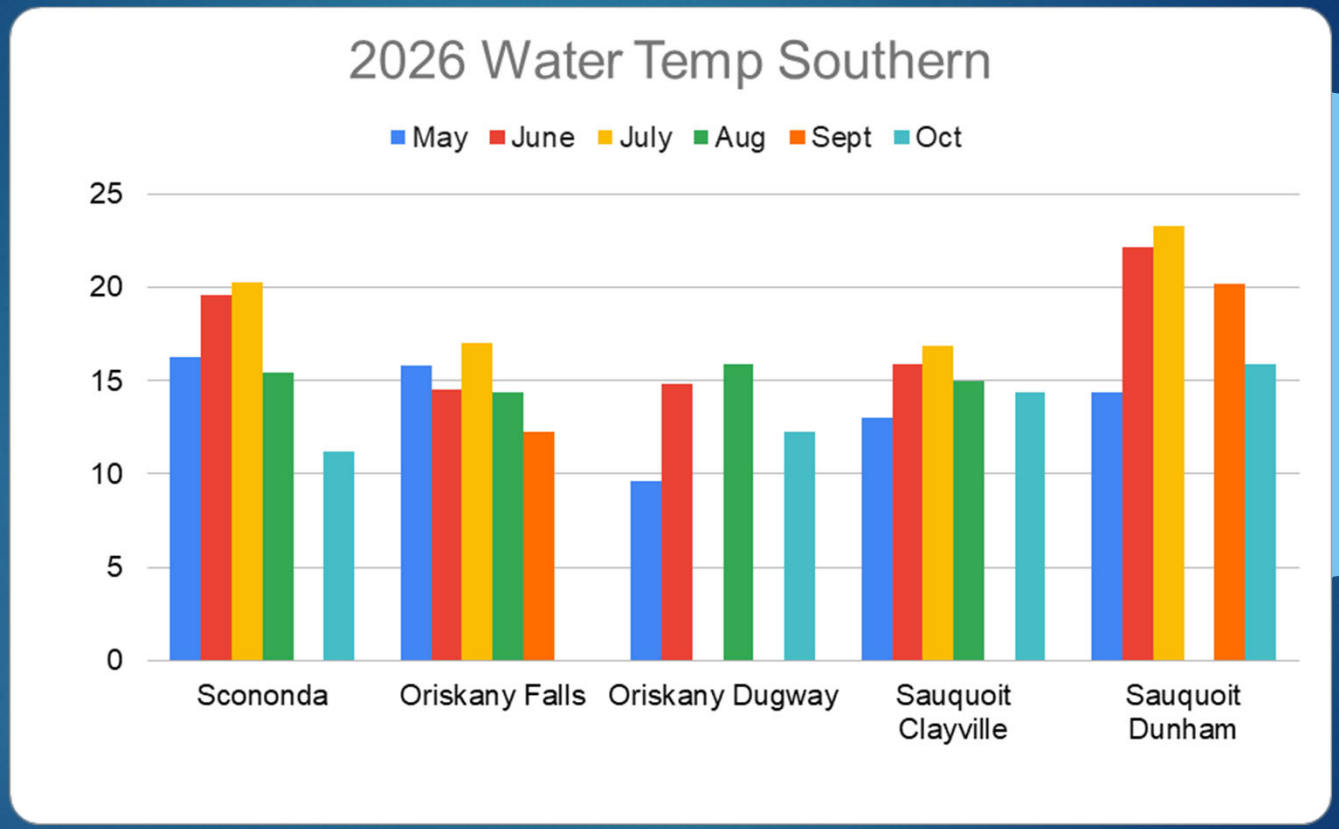
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Water Temp (C) Tug Hill



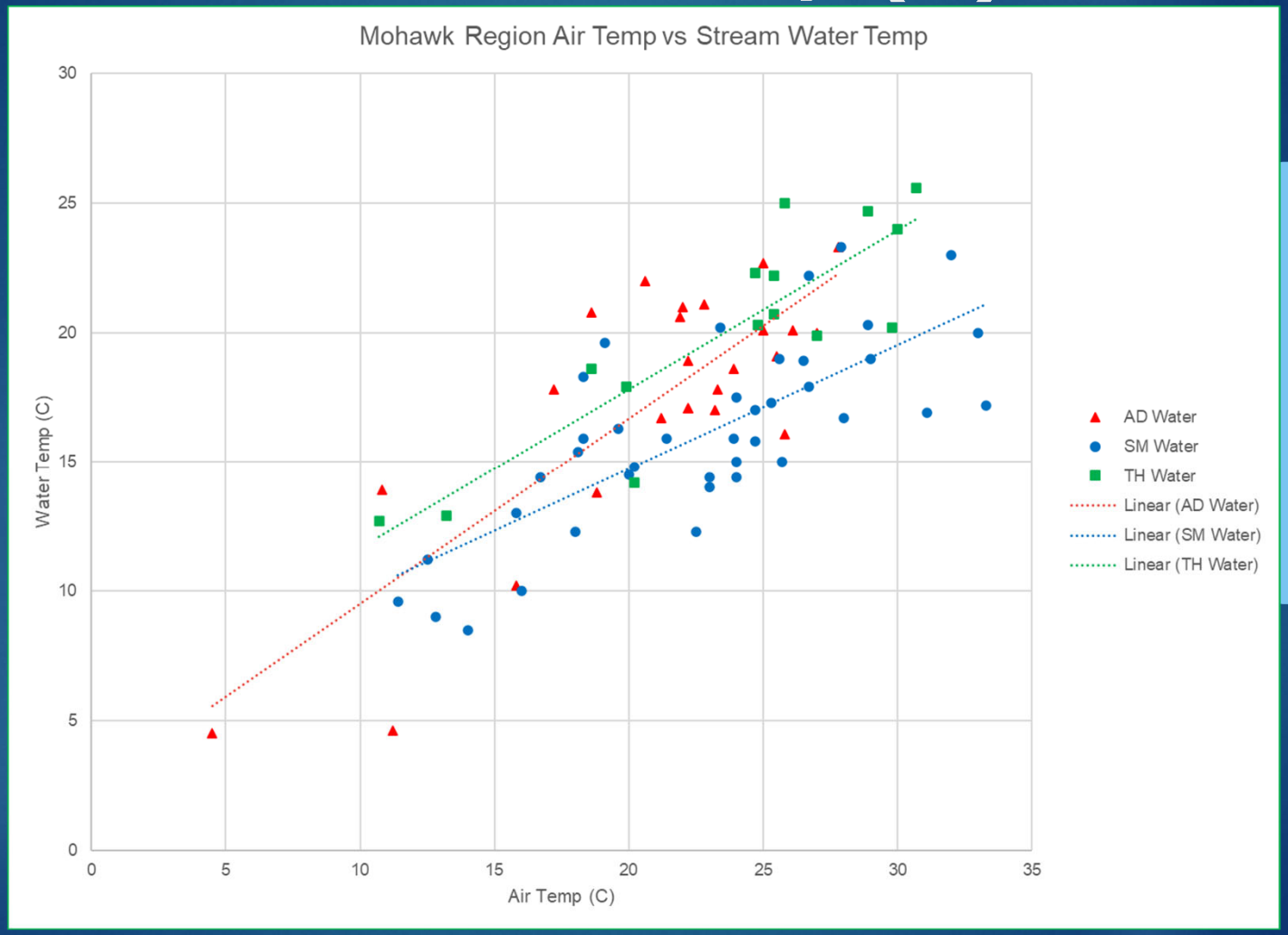
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Water Temp (C) SM

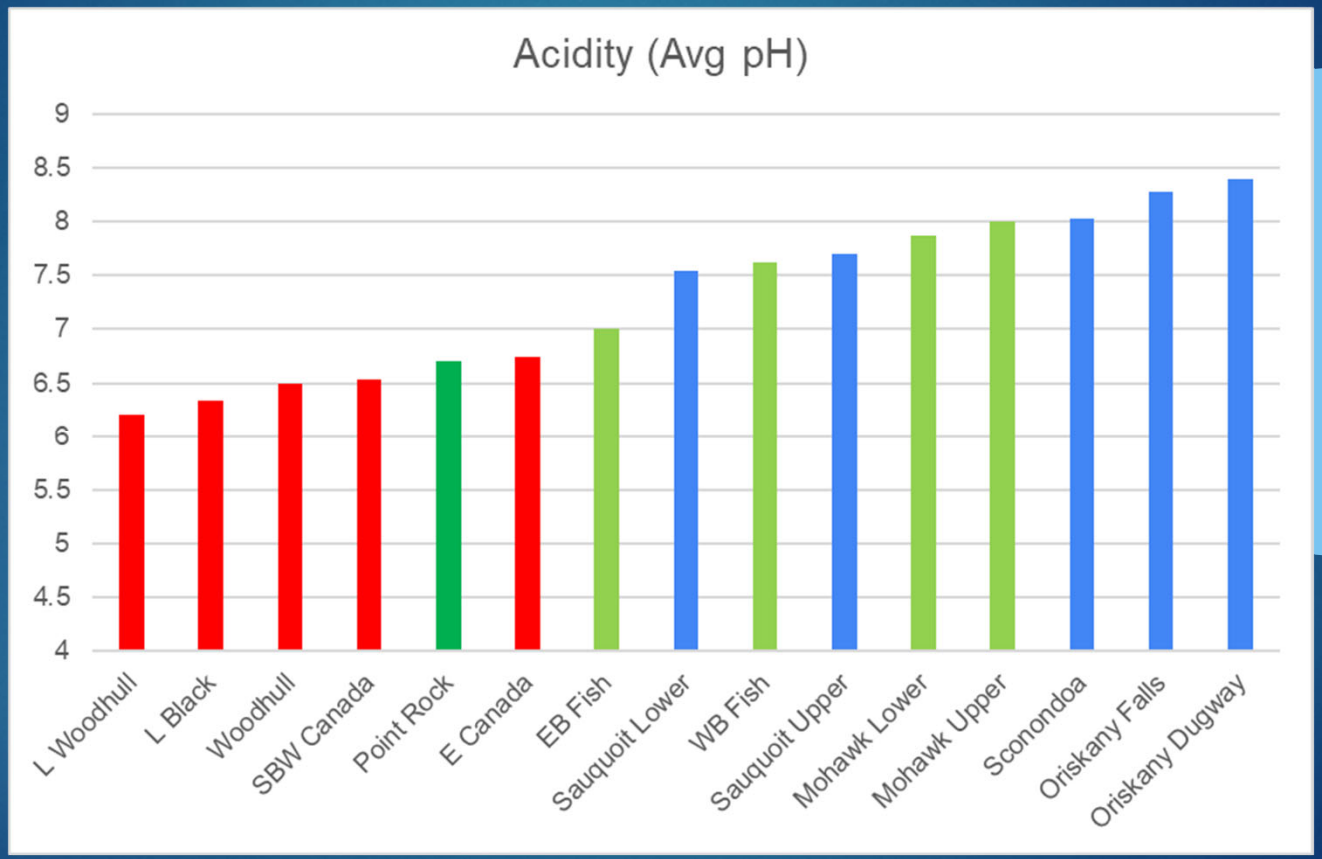


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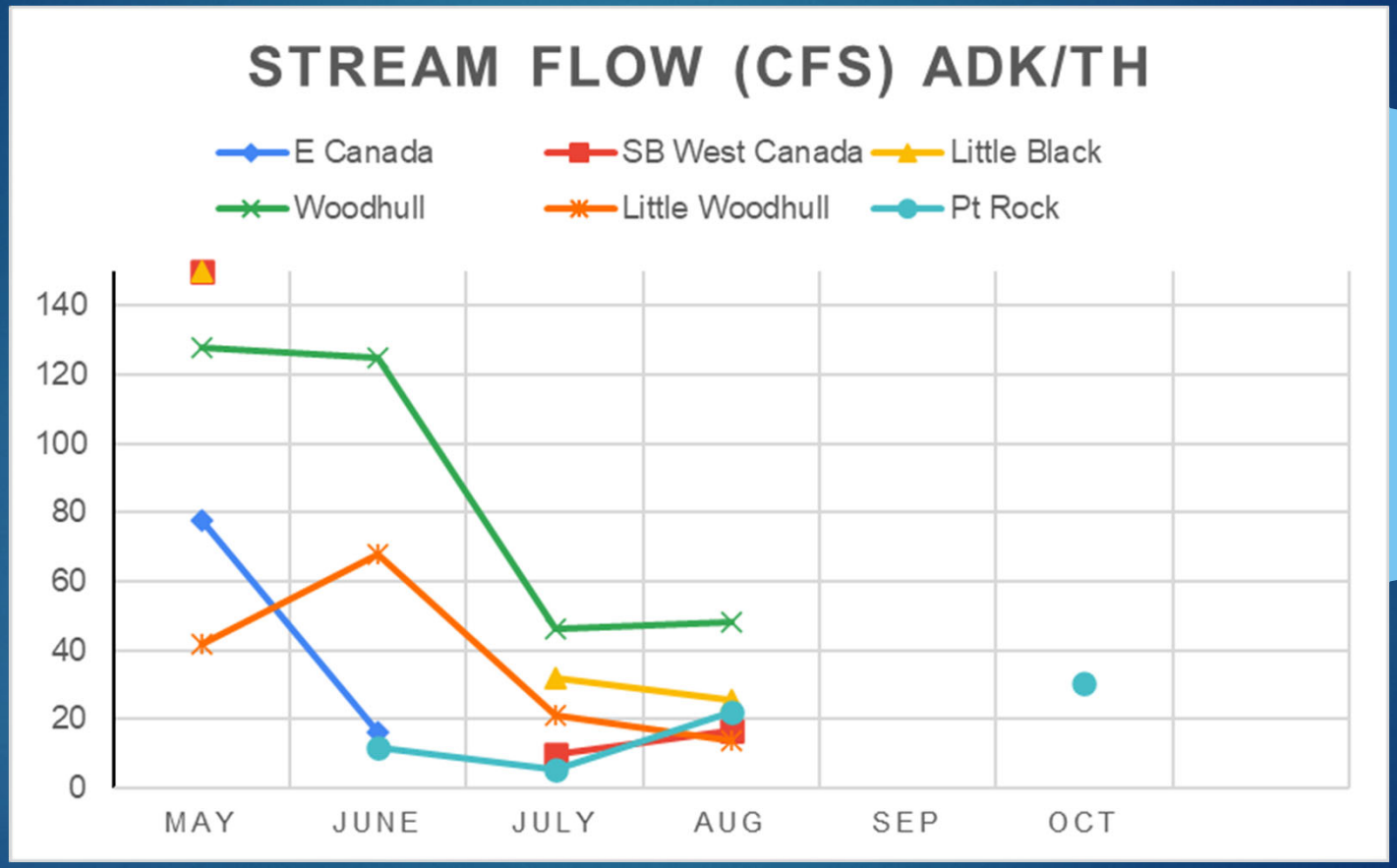
Air vs Water Temp (C)



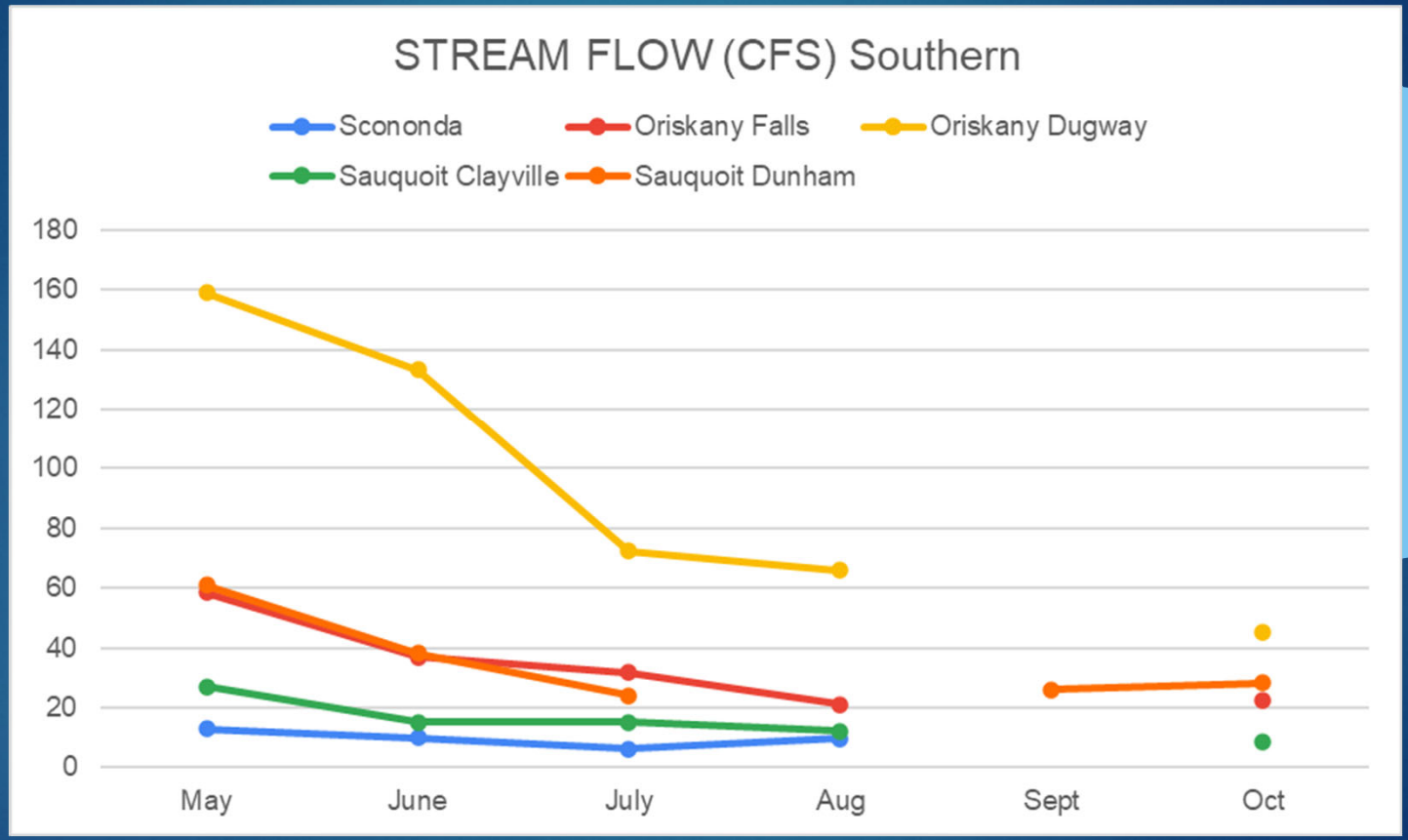
Acidity (pH)


Acidity (Avg pH)
9
8.5
8
7.5
7
6.5
6
5.5
5
4.5
4
L Woodhull
L Black
Woodhull
SBW Canada
Point Rock
E Canada
EB Fish
Sauquoit Lower
WB Fish
Sauquoit Upper
Mohawk Lower
Mohawk Upper
Sconondoa
Oriskany Falls
Oriskany Dugway

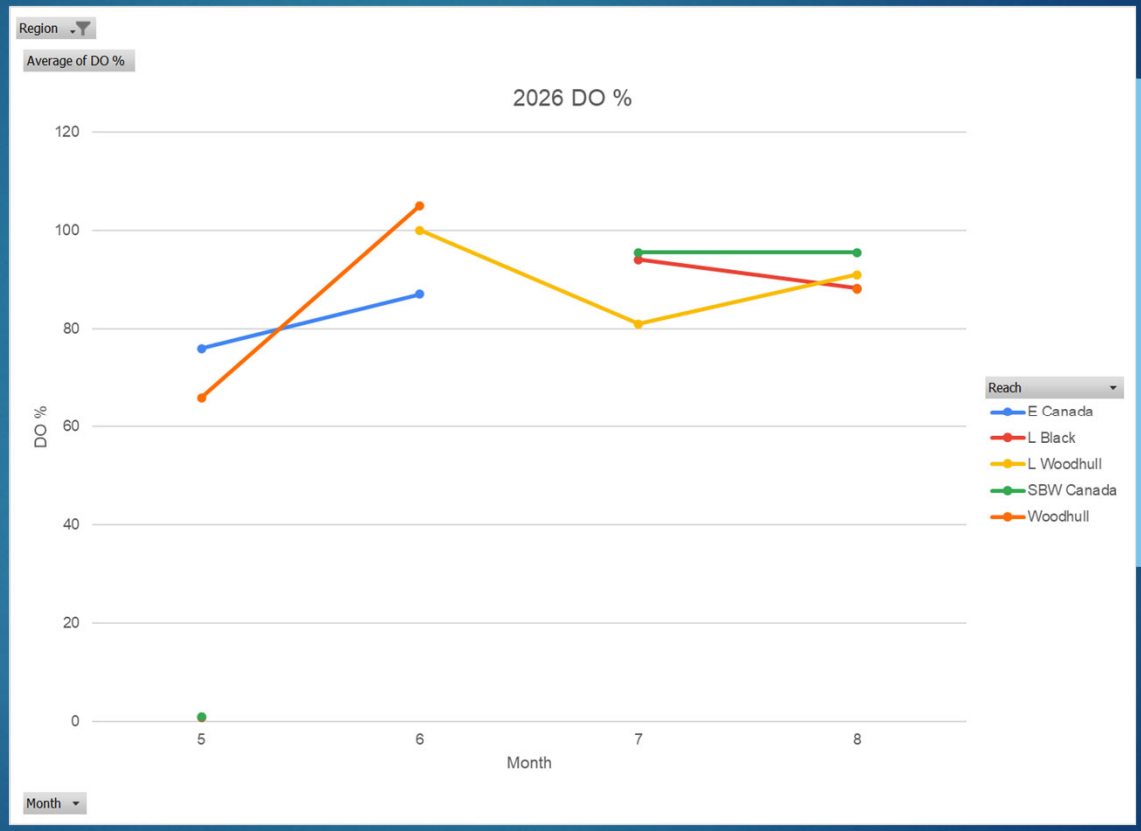
Stream Flow (CFS)



Stream Flow (CFS)

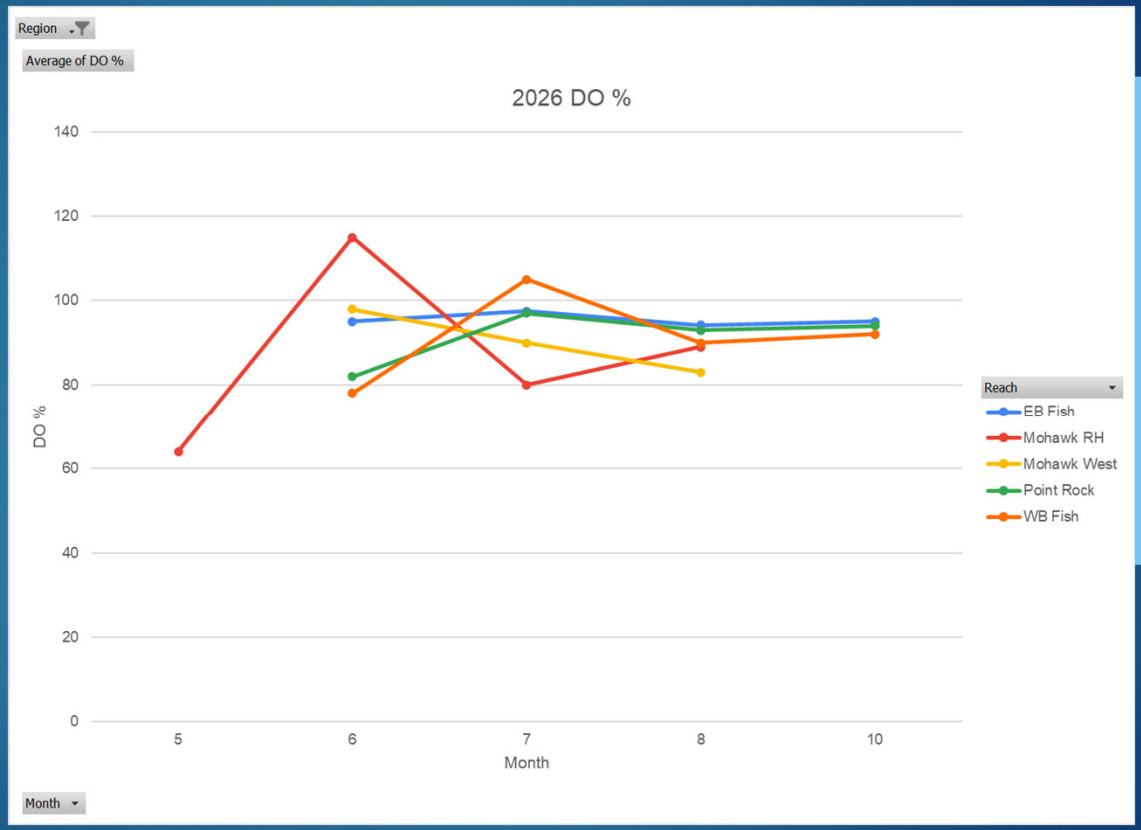


Dissolved O (%) Adk



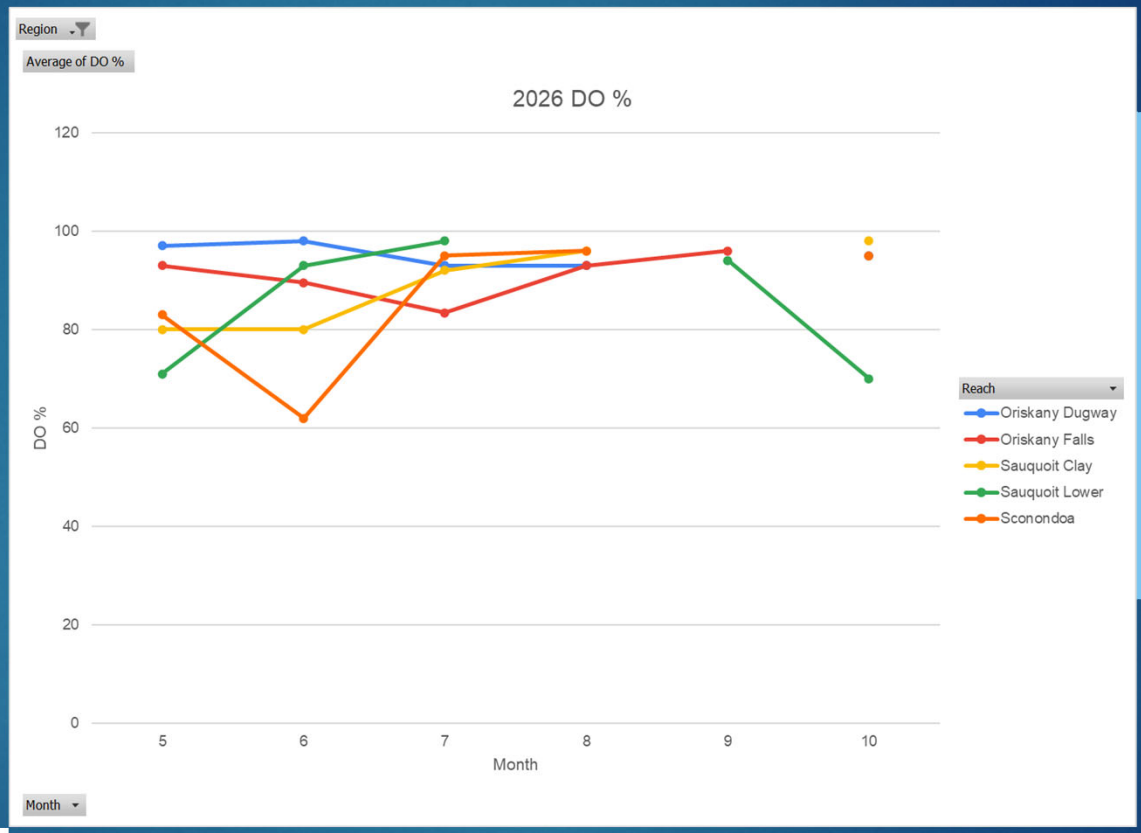
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Dissolved O (%) Tug Hill



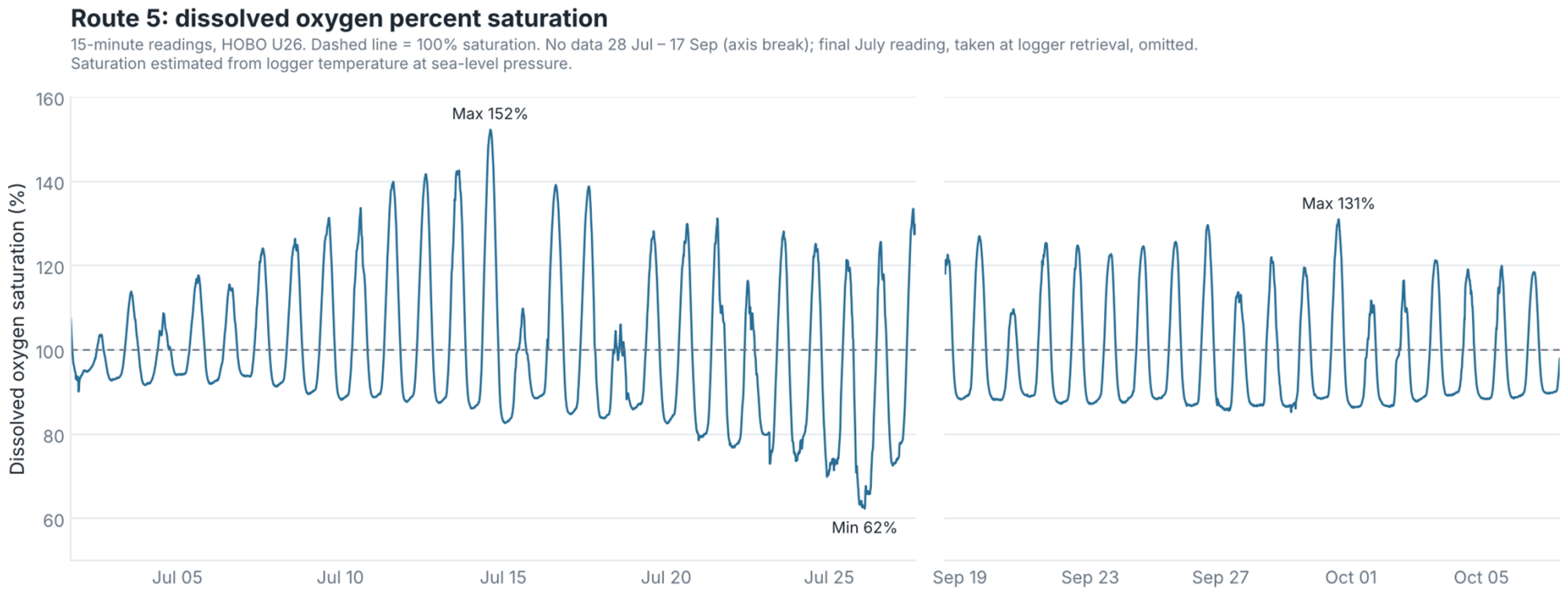
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Dissolved O (%) SM



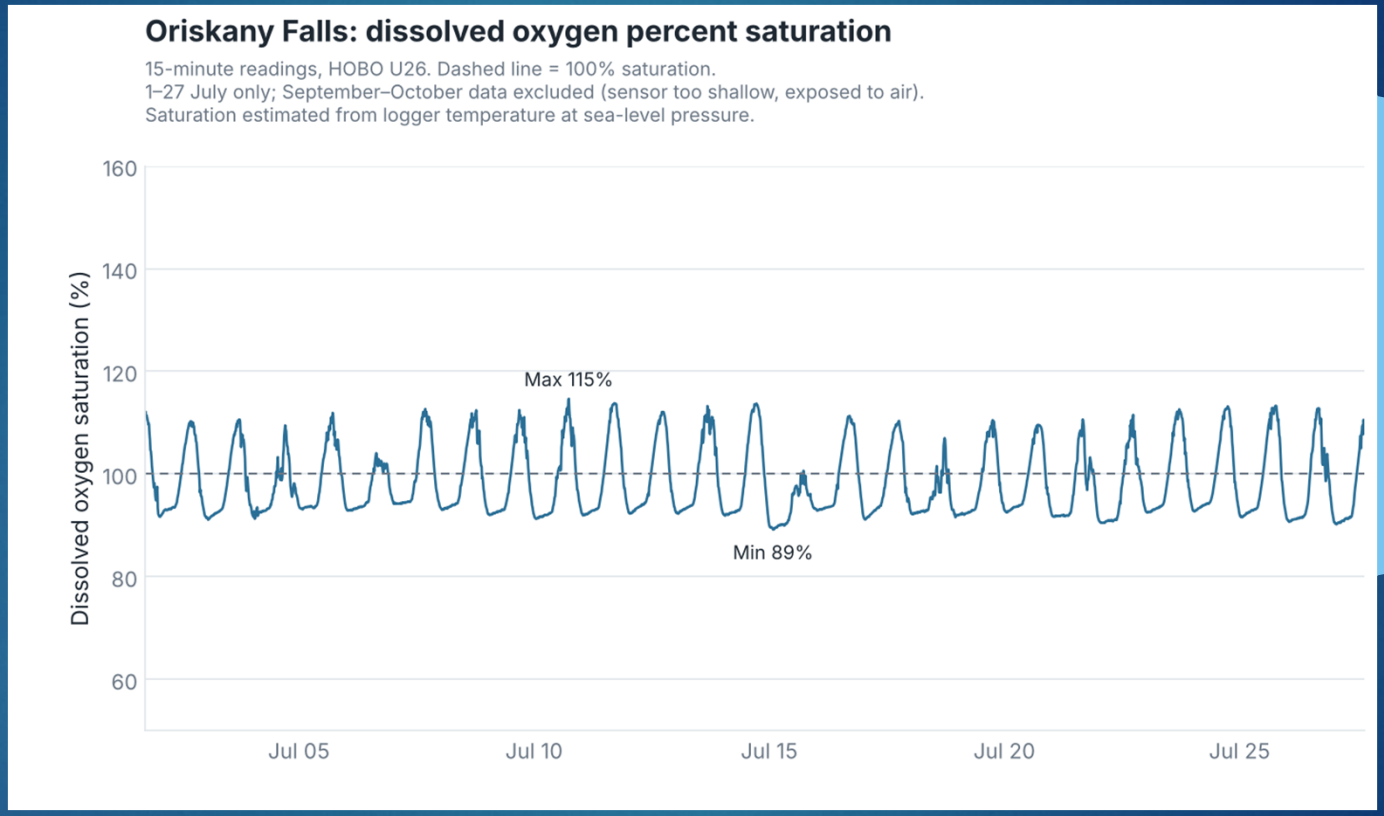
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Dissolved O (%) Oriskany R5



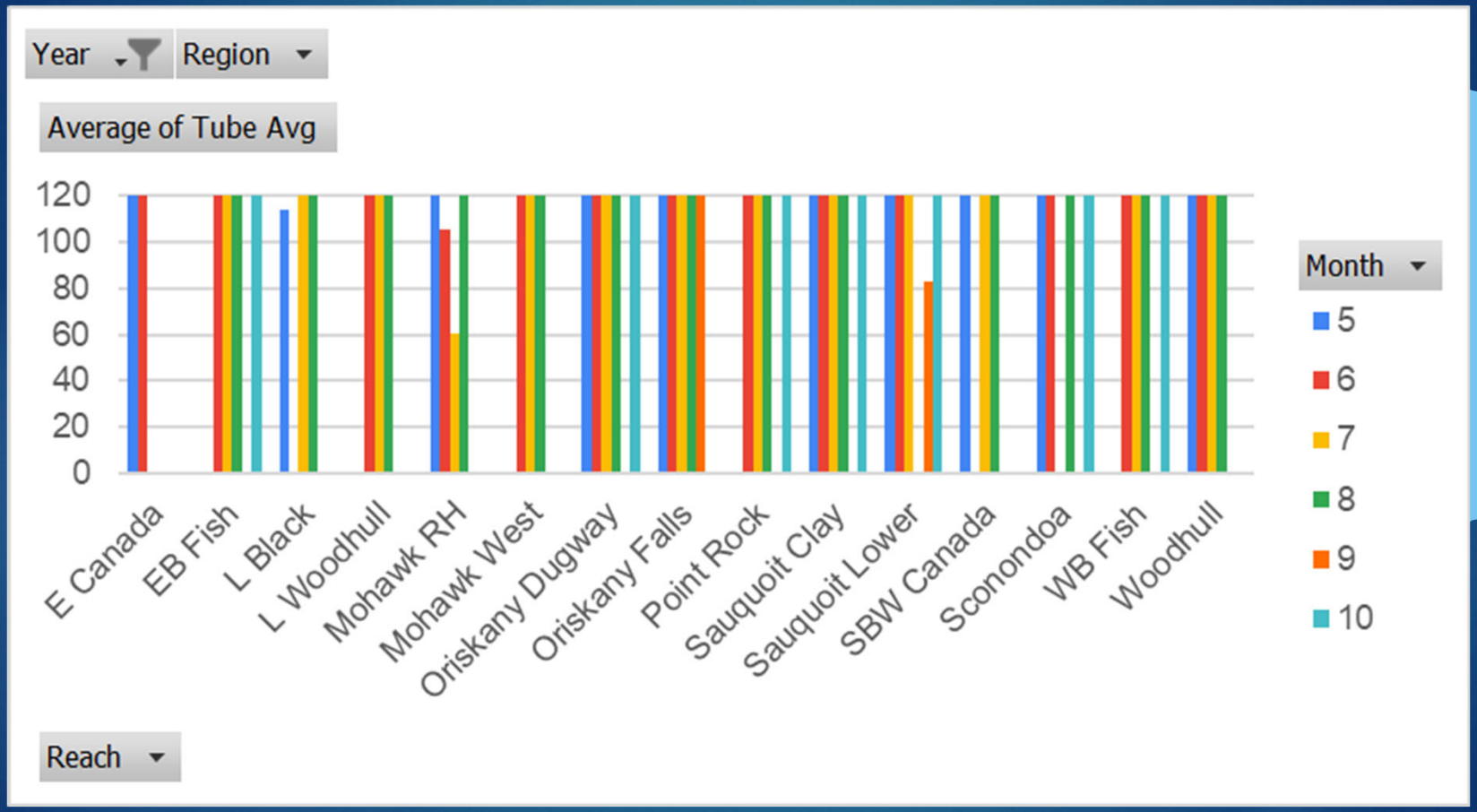
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Dissolved O (%) Oriskany Falls

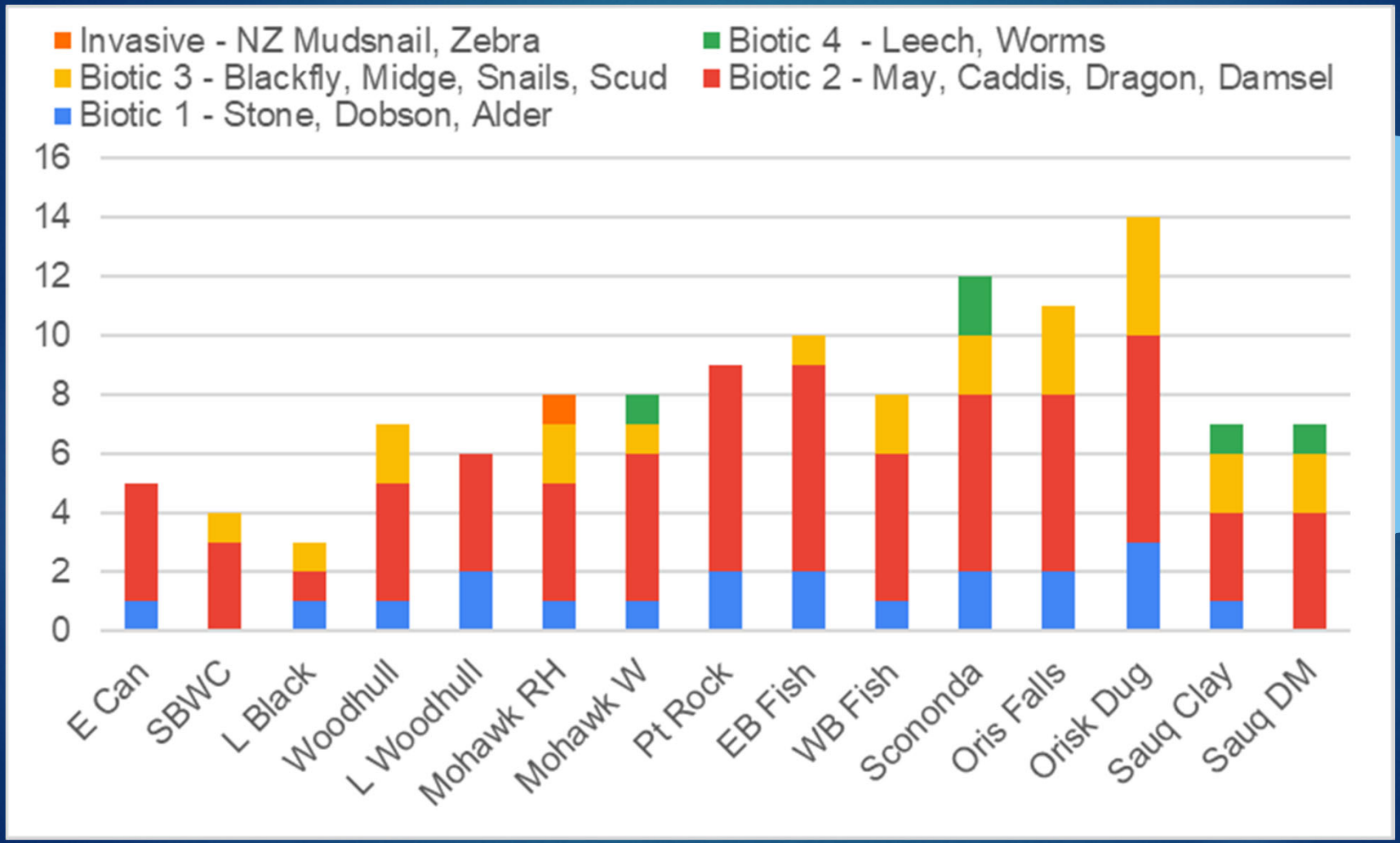


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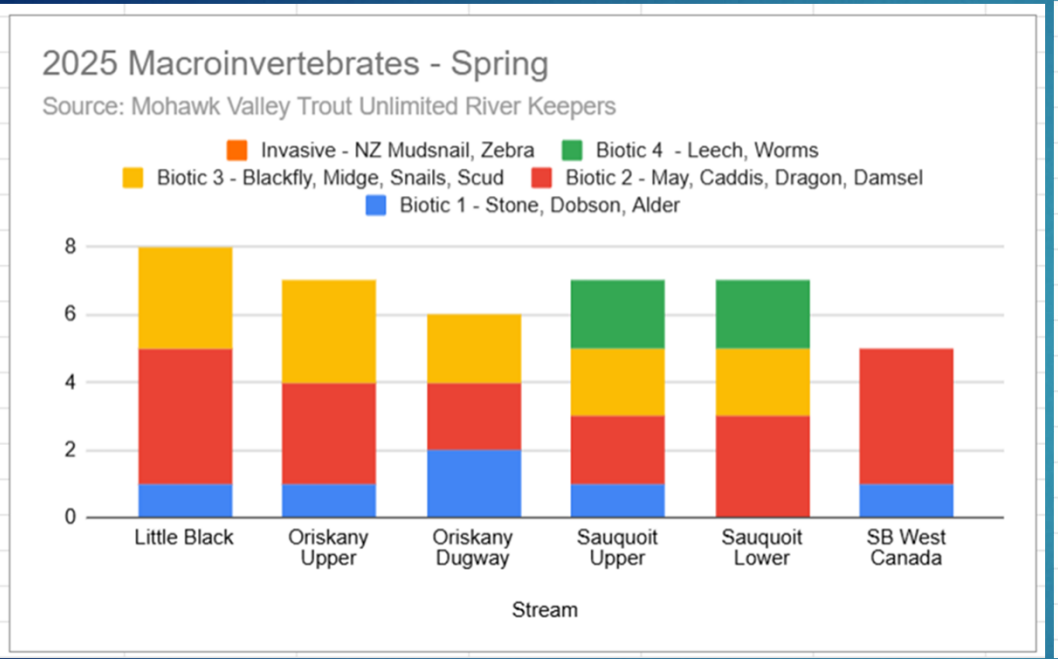
2026 Transparency (cm)

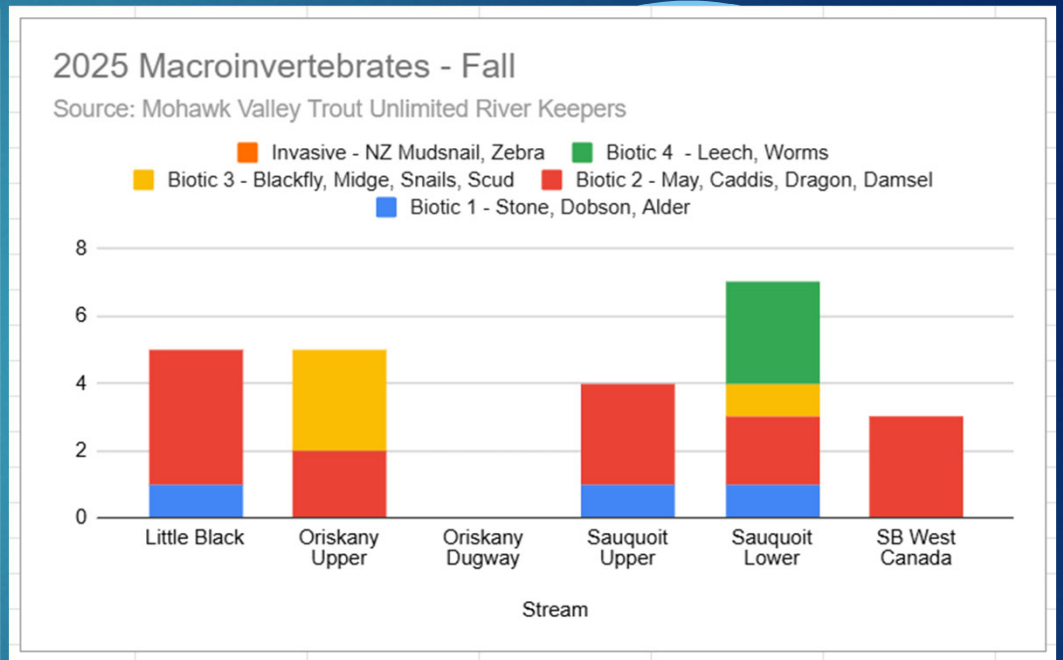


Biotic Index 2026

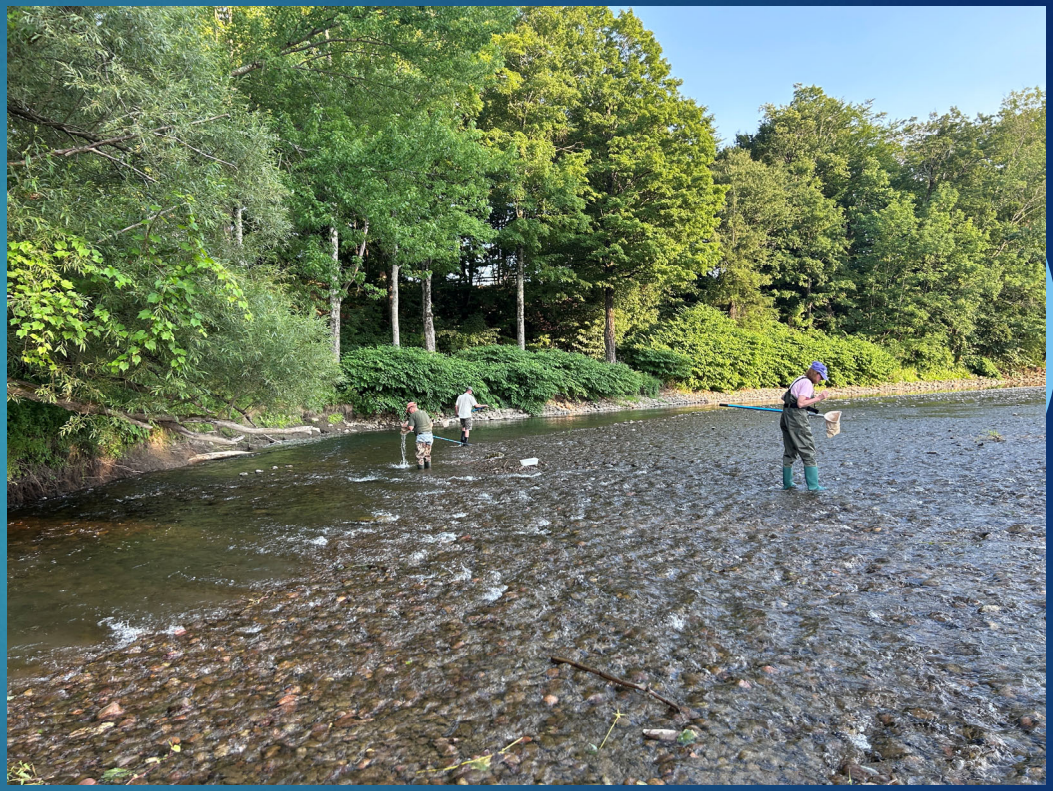


Macro (Index) 2025









2026 DEC WAVE Event

- Oriskany Creek (2)
- Sauquoit Creek
- Sconondoa
- WB Fish Creek
- EB Fish Creek
- Point Rock
- Mohawk (2)

Collected macroinvertebrates and for DEC identification

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2026 E-Coli - May

- **Oriskany/Big - Oriskany to Solsville**

Town	Oriskany Creek Sampling Locations	Approx Coord	Temp	Total Coliform	E-Coli
Oriskany	Ball Field	43.153948, -75.334745	67.5	1986	13
Westmoreland	Peckville Rd	43.108618, -75.368790	65	1553	41
Kirkland	Route 5	43.077540, -75.379741	65	961	11
Kirkland	Route 12B	43.032308, -75.400589	65	722	15
Marshall	Route 315	42.991823, -75.423983	62	1553	24
Oriskany Falls	Clark Library	42.940318, -75.458191	60	>2420	65
Solsville	Canal Rd, below Chenango Canal	42.908515, -75.525574	59	2420	185
Deansboro	Big Creek California Rd	42.9910454, -75.4204804	64	1733	16

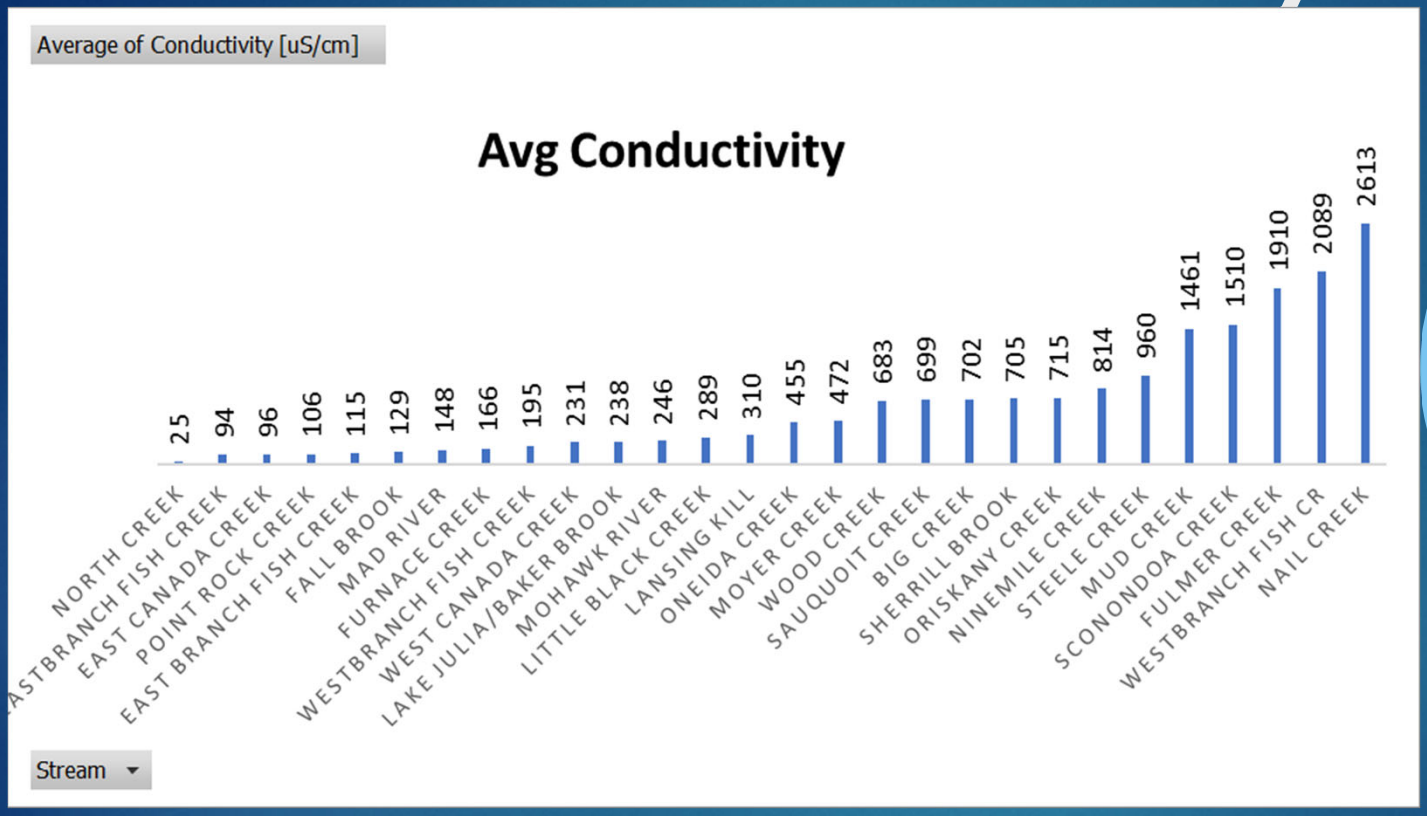
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2025-26 SHARCS

- 75 and 60 Samples on 25 streams
- Conductivity
- Alkalinity
- Chlorides
- Nitrates
- Sulfates
- Sodium and Magnesium - pending

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2025 Conductivity



150-500 Healthy

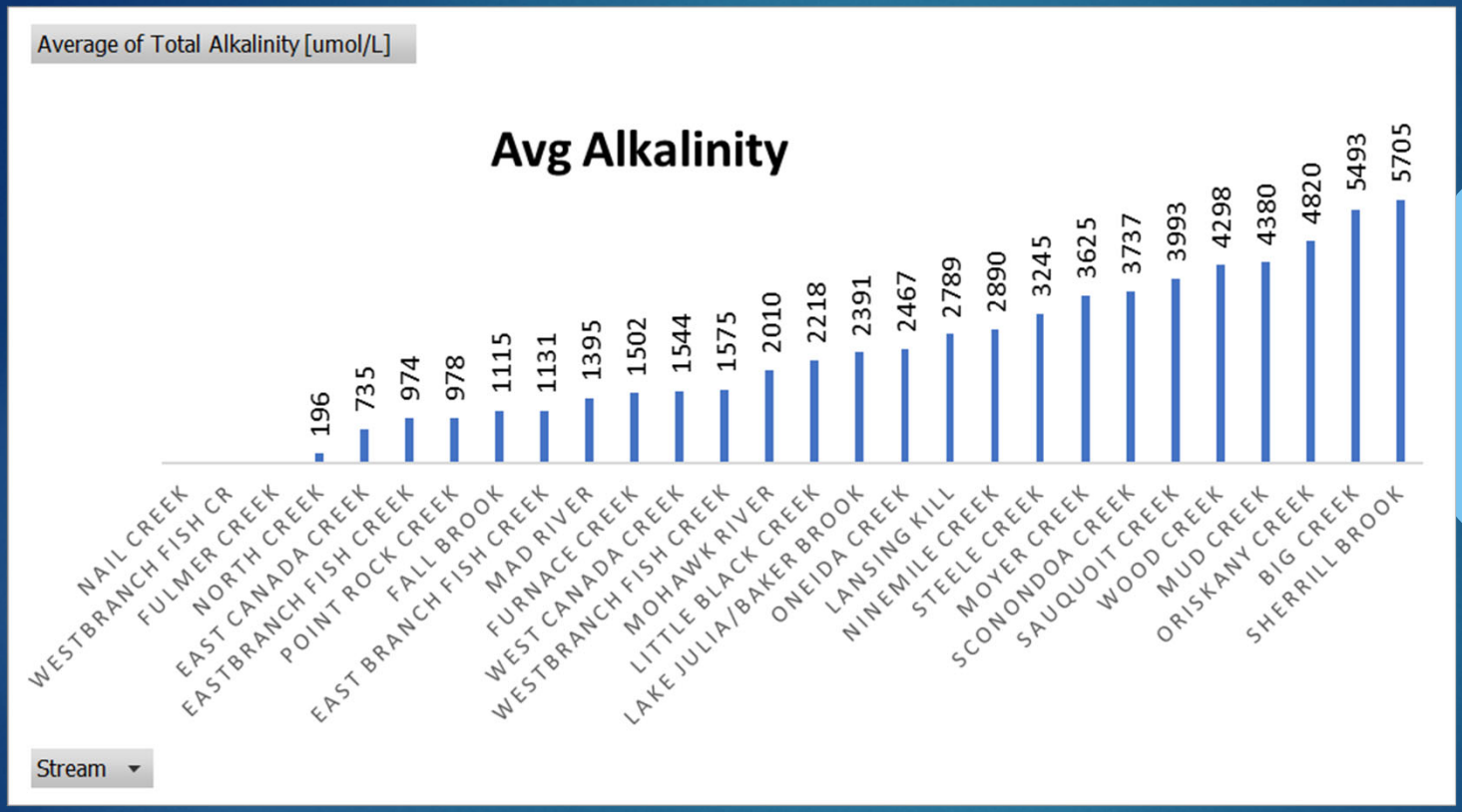
>1000 Salinity or other issues

Nail Creek	Oneida St	2613
Westbranch Fish Cr	Blossvale Rd	2089
Fulmer Creek	Route 5S	1910
Sconondoa Creek	Vernon Center Norton	1547
Sconondoa Creek	Vernon	1472
Mud Creek	Dunham Manor Park	1461
Steele Creek	Ilion Gorge	1373

2025 SHARCS

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2025 Alkalinity

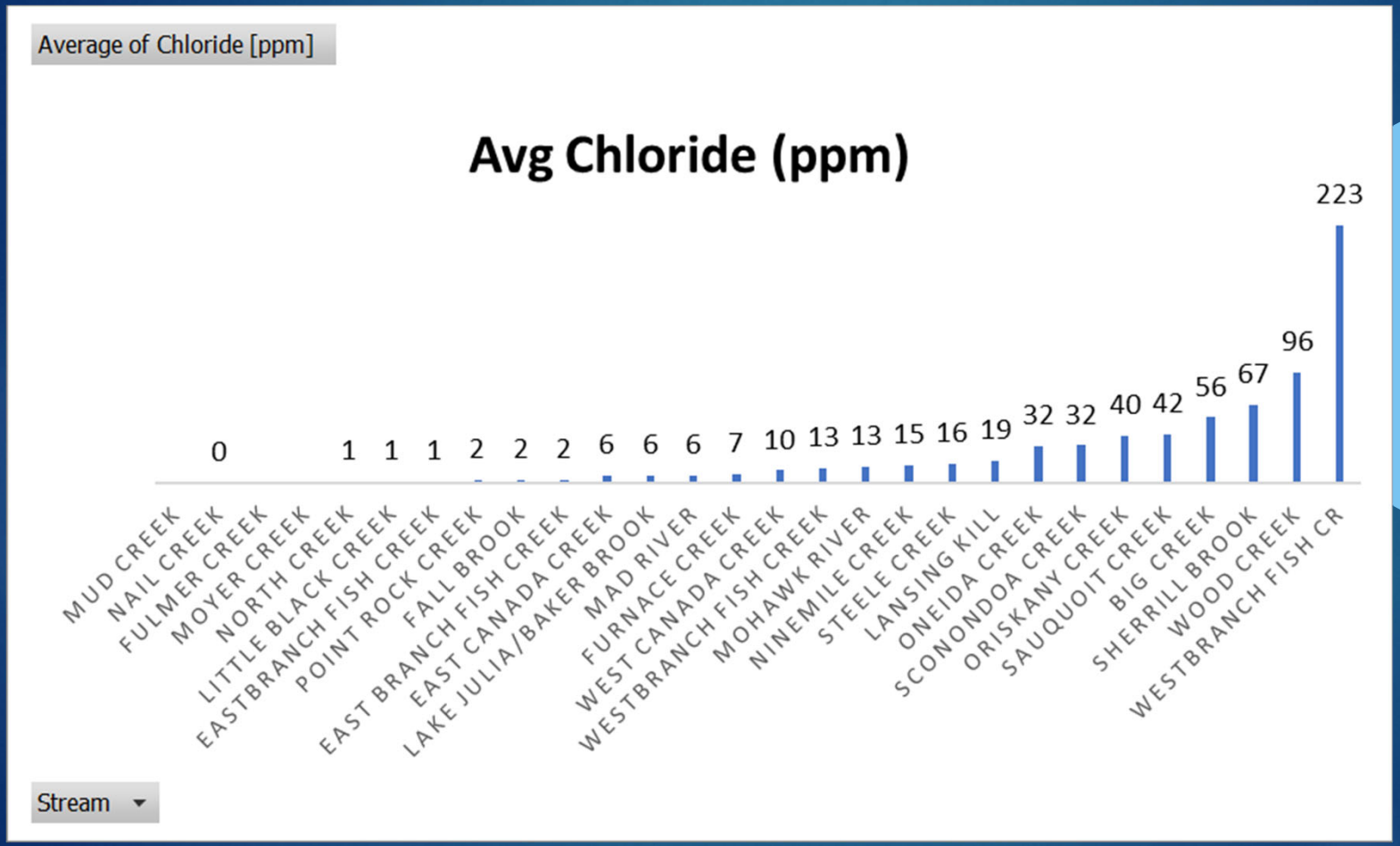


Healthy ?

2025
SHARCS

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2025 Chlorides (ppm)

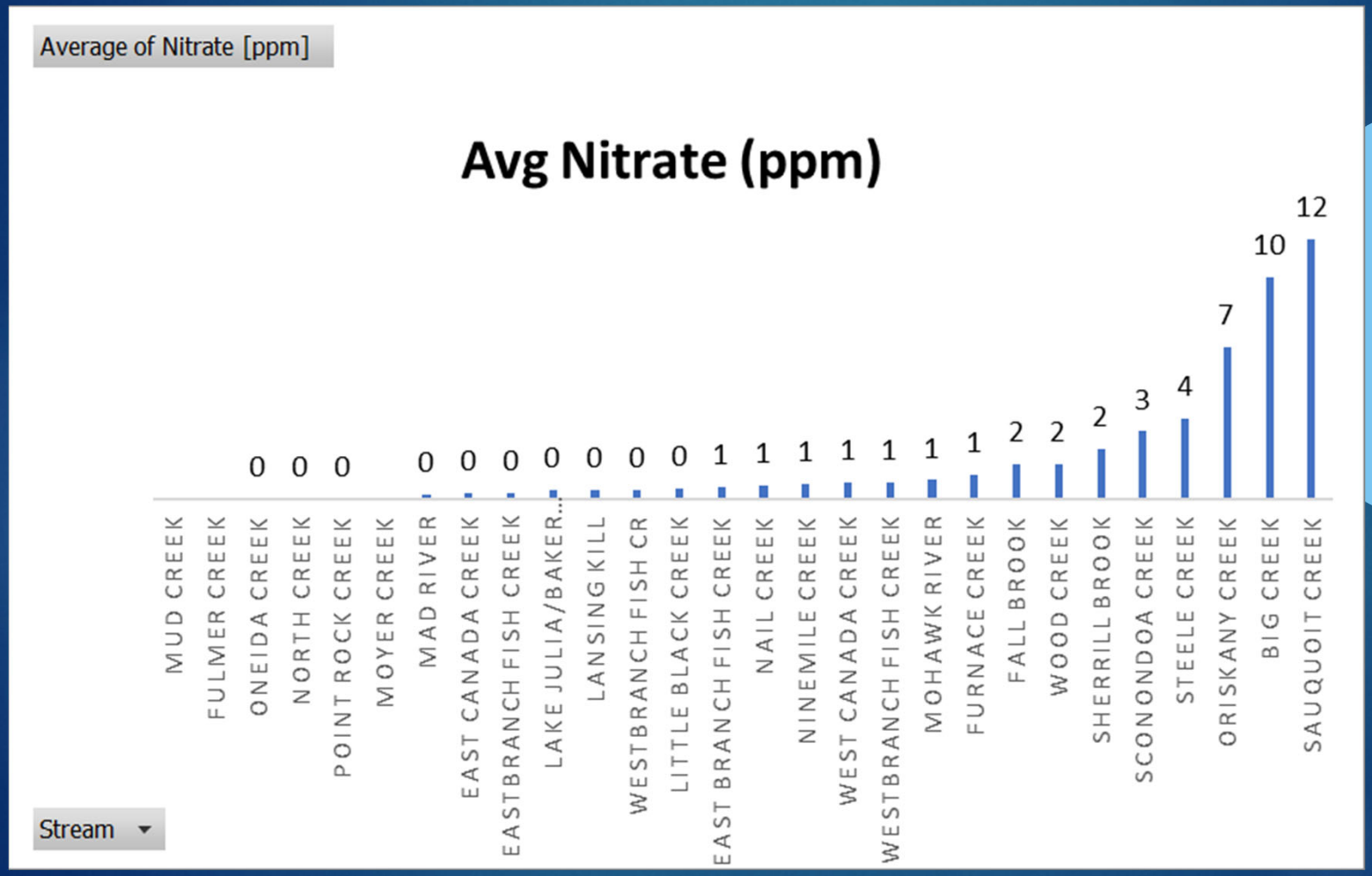


EPA Std <250

WB Fish Blossvale 223

2025 SHARCS

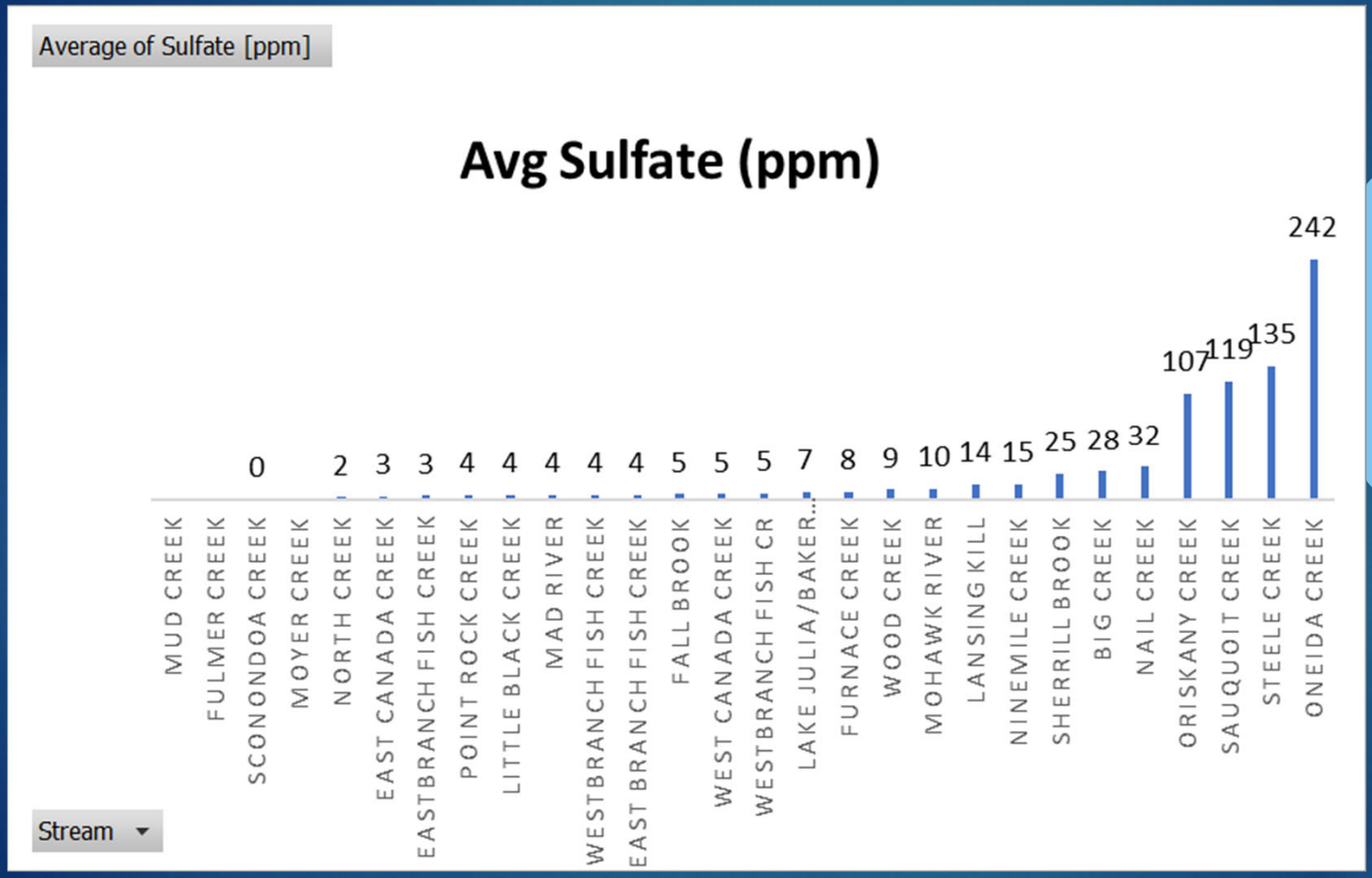
2025 Nitrates (ppm)



EPA Std <44.3

2025
SHARCS

2025 Sulfate (ppm)



EPA Std <250

Specific locations >200

Steele Cr - Cedarville

Oneida Cr - Maxwell

Sauquoit – multiple

2025 SHARCS

2027 Planning

- Monthly MVTURK assessments
- NYS DEC WAVE macroinvertebrates
- Thermistor Temp / DO Sensors - Hamilton C
- Targeted Chemistry sampling – Hamilton C/SHARC
- Stream Assessment – Streams App Event
- eDNA – Sampling?
- Fin Clip Genetics?



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