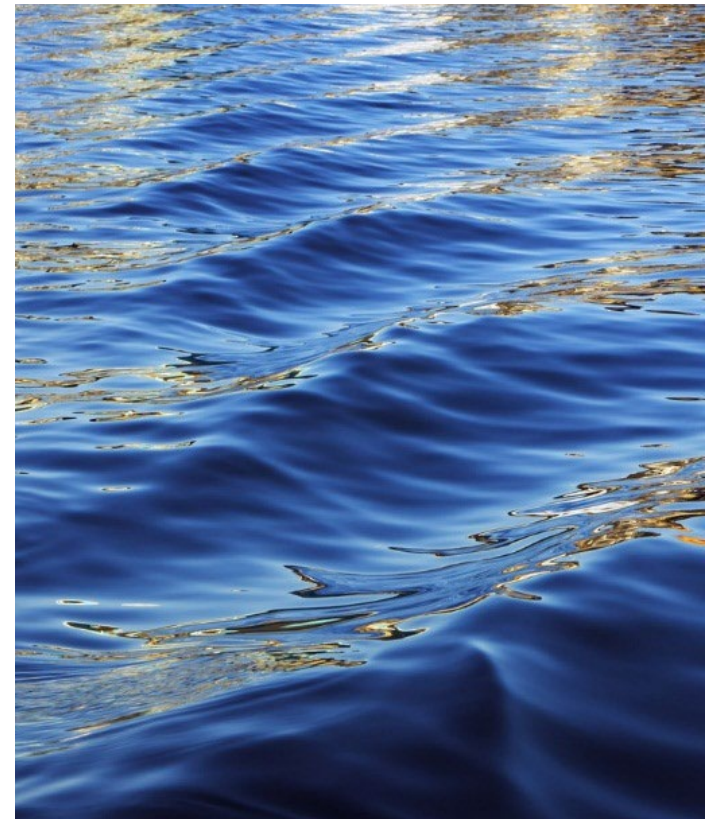




Middle Grand Chapter's Annual General Meeting

February 25, 2023



Trout Unlimited Canada

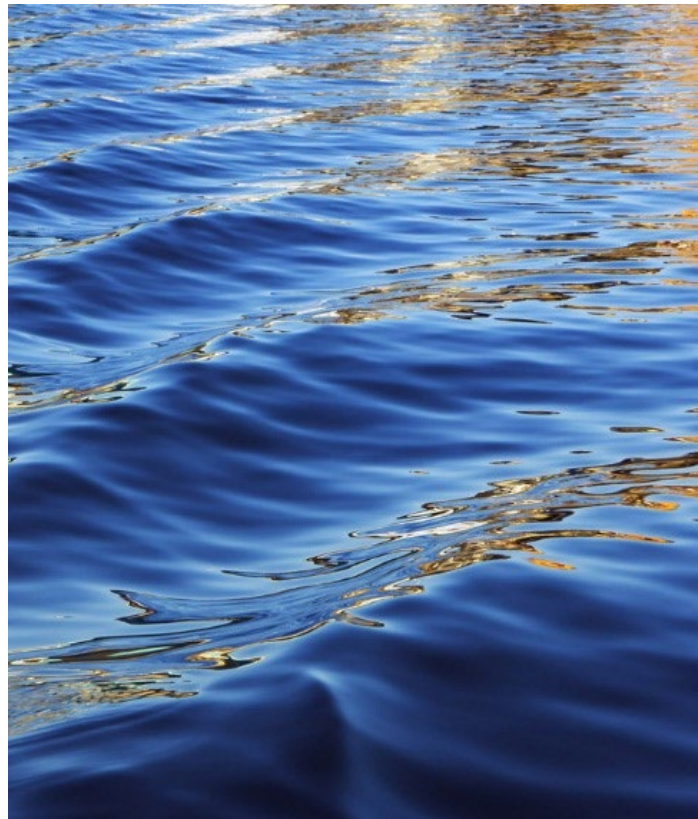


Truite Illimitée Canada

Agenda

Topics

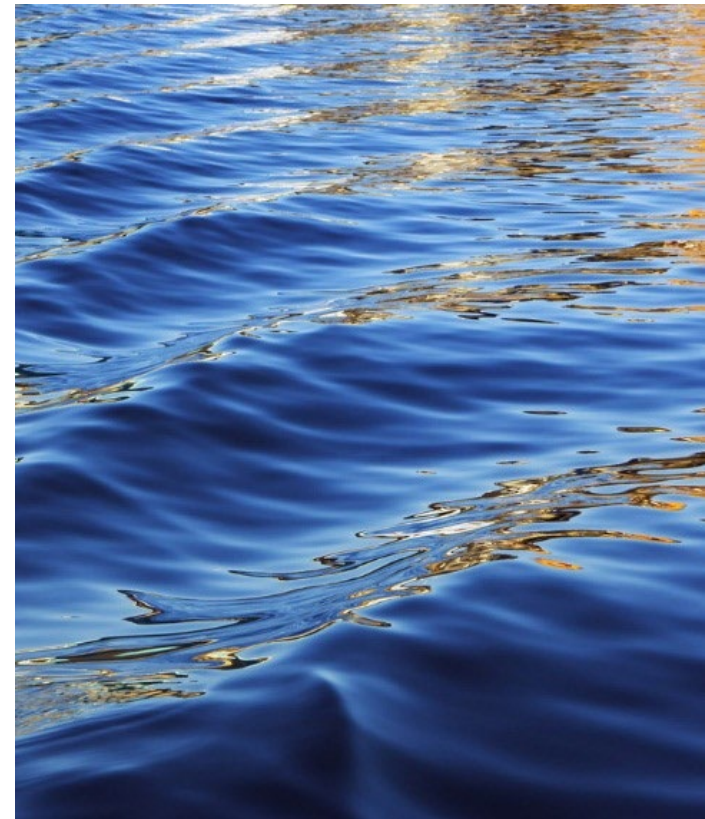
| | |
|--------------------------------|------|
| Intros and President's Message | 1:00 |
| Presentation | 1:30 |
| Treasurer's Report | 1:40 |
| Projects Report | 1:45 |
| Data Report | 1:55 |
| Communications Report | 2:10 |
| Questions | 2:20 |
| Break | 2:30 |
| Nominations | 2:45 |
| Presentation | 2:50 |





Introduction of Executives

Larry Mellors



Trout Unlimited Canada



Truite Illimitée Canada

Chapter Executives

Hajnal Kovacs, President

Larry Mellors, VP

Tyler Dunsmore, VP

Mark Hartley, Treasurer

Andy Dietrich, Secretary and
Director of Communications

Amanda Draves, Director of Data

Barry Buchwald, Projects Director

Scott Puillandre, Projects Director

Directors at Large:

Adam Pett

Jason Forde

Archie McLarty

Larry Halyk

Bernadett Kovacs

Warren Yerex

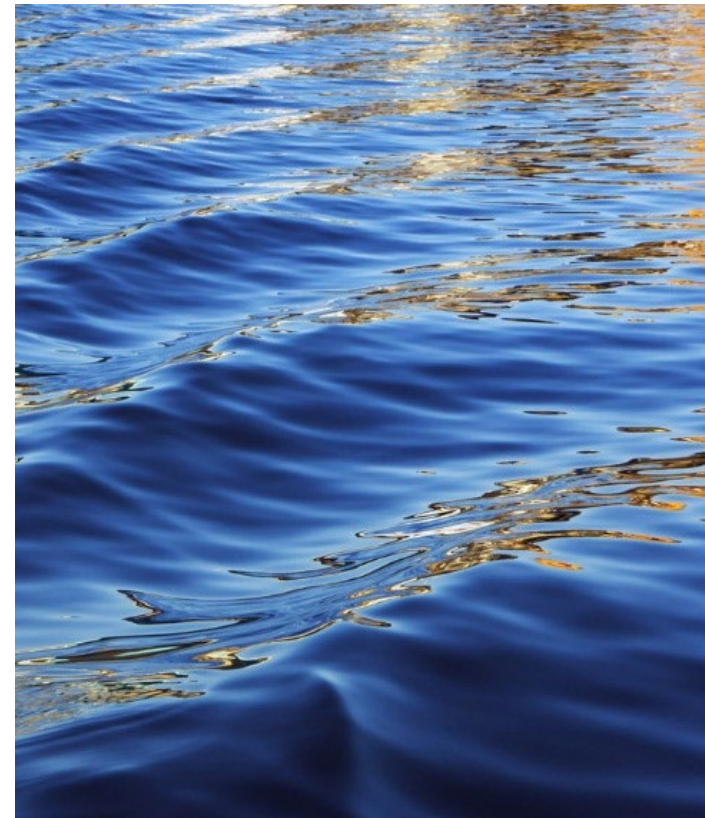
Brent Elliott





President's Message

Hajnal Kovacs



Trout Unlimited Canada



Truite Illimitée Canada

Middle Grand Chapter



Fisheries



Volunteers



Science



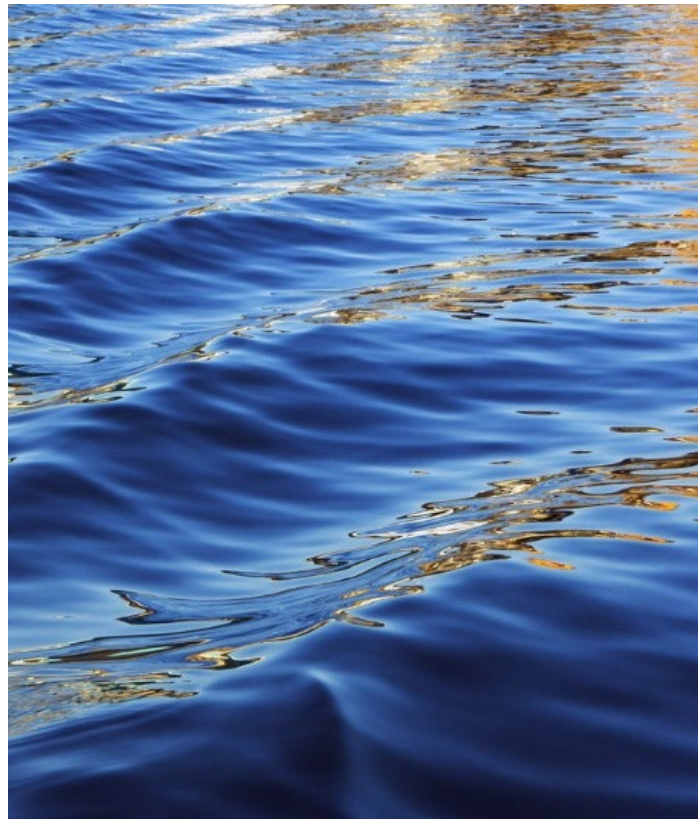
Trees



Youth



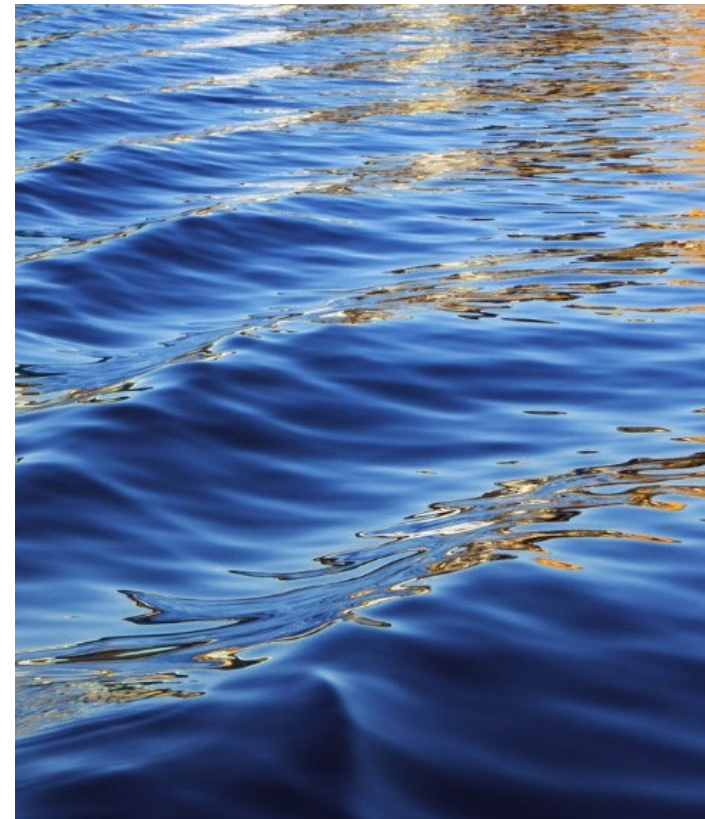
Presentation





Treasurer's Report

Mark Hartley



Trout Unlimited Canada



Truite Illimitée Canada

Financial Statement – Dec. 31, 2022

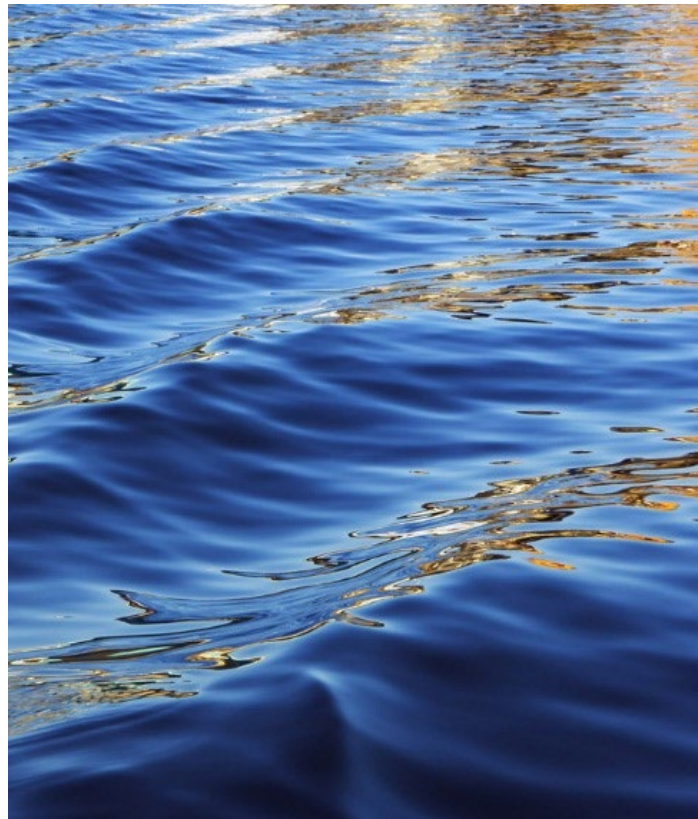
| | General Fund |
|---|---------------------|
| Revenue | |
| Cash balance 31/12/2021 | \$ 8,971.83 |
| Grants/Membership | \$ - |
| Donations | \$ - |
| Fund raising (50/50) | \$ - |
| | \$ 8,971.83 |
| Expenses | |
| Meetings | \$ - |
| Projects | \$ 2,231.67 |
| SWAT 2021 | \$ 750.00 |
| Trust Fund | \$ - |
| Training (2021 Electrofish & 2022 ChainSaw) | \$ 1,238.50 |
| Bank fees | \$ 3.90 |
| Web hosting | \$ 482.20 |
| | \$ 4,706.27 |
| Excess (deficiency) | \$ 4,265.56 |





Projects Report

Scott Puillandre



What did we get up to in 2022

A LOT!



Overview

- Charlie Creek Tree Plan
 - 200 tree planted
 - 1 workday
 - 25 volunteers
- Landon's Creek
 - 10 sediment mats installed
 - 300m of bank stabilized
 - 5 workdays
 - >60 volunteers



Charlie Creek Tree Planting





Landon's Creek Before





Landon's Creek After





A BIG thank you to all our members
And volunteers



What are we planning for 2023

- Horner Creek Tree Planting – major chapter project
 - 2 or 3 plantings in both the Spring and Fall
- 2 work days/month from Jul – Aug – Sept
- Possibly 1 or 2 pop-ups
- Landon's Creek (Brant)
- Airport Creek (Brant)
- Rest Acres (Brant)
- Washington (Oxford)
- Alder Creek (Waterloo / Oxford)



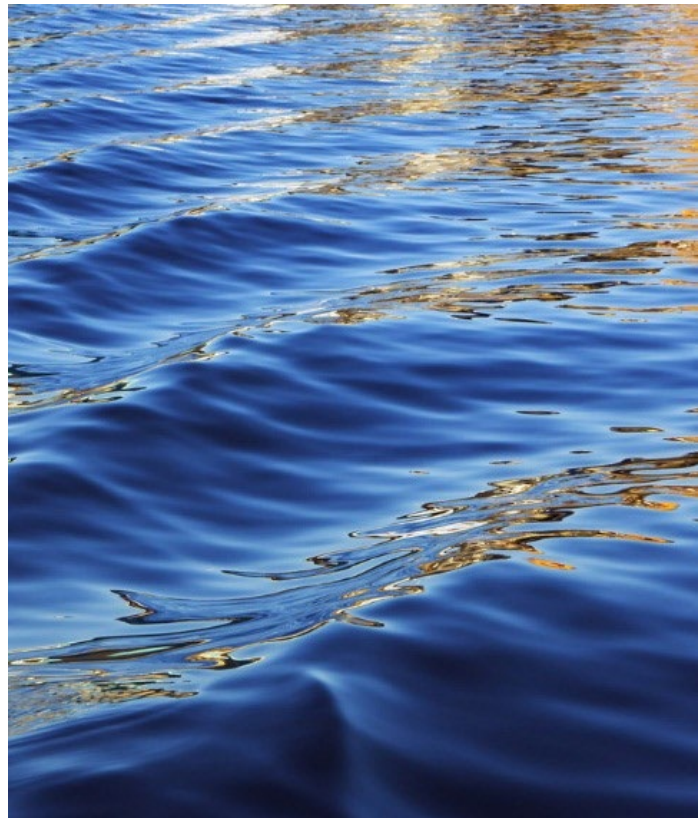
We hope to see you there!





Data Report

Amanda Draves & Larry Halyk



Data Collection in 2022



Why Collect Data?

- Provides information about the condition of our watershed.
- Identifies areas of concern, where streams would benefit from our effort.
- Measures progress of our rehab projects.
- Identifies data gaps, where info is otherwise unknown (supplement agency data)
- Legitimate leg to stand on!



Trout Unlimited
Canada

Middle Grand River Chapter Temperature Data Collection Form*

Date AUG 26/14 Investigator(s) HALYK
 Start Time: 4:36 PM Air Temp (in shade) 30.2°C Cloud Cover (%) 60
 End Time: 5:39 PM Air Temp (in shade) 30.1°C Cloud Cover (%) 50

| Stream | Location | Temp (°C) | Time |
|---------------------|---|-----------|----------------|
| Burgess Lake Outlet | Motherall Rd (upstream) | 23.6 | 4:40 PM |
| " " " | Twp Rd 6 W | 21.7 | 4:47 |
| " " " | Twp Rd 6 E | 27.9 | 4:52 |
| " " " | Blenheim Rd (downstream) | 20.8(1) | 4:56 PM |
| Washington Creek | Twp Rd 12 (downstream) | 21.2 | 5:05 PM |
| " " | Ox. County Rd 3 | 21.1 | 5:09 |
| " " | Oxford County Rd 8 | 21.8 | 5:13 |
| " " | Twp Rd 14 | 18.8 | 5:18 |
| " " | Oxford - Waterloo Townline (upstream) | 13.4 | 5:22 PM |
| Hiller Creek | Upper Blenheim Rd near Townline (upstr.) | - | standing pools |
| " " | Twp Rd 14 | 24.5 | 5:31 |
| " " | Middle Blenheim | 19.5 | 5:36 |
| " " | Lower Blenheim (Perry's Creek) (downstr.) | 17.9 | 5:39 PM |
| Whitemans Creek | near mouth @ 5 Oaks | 19.5 | 3:00 PM |

Observations and Comments:

Burgess → Large open pasture warms creek between Rd West location + Rd 6 East location - raises temp 6+°C. BUT major spring discharge between Rd 6 E + Blenheim Rd lowers temp 7+°C in less than 1 km !!
 Washington - A Beaver Dam removed upstream of Rd 14 on Aug 20, isn't another major dam between Townline + Rd 14 remains as of Aug 26.
 Hiller - noticeable increase in baseflow (groundwater) between Rd 14 + Perry's Creek.

*To be used to collect late afternoon "Spot Temperatures" on streams during hot and sunny days between July 1 and August 31. See page 2 for detailed instructions.

Spot Temperature Form

Data Collected Since 2013

1. Fish Community Surveys
(electrofishing)
2. Water Temperatures:
(Continuous & Spot Checks)
3. Spawning Surveys (spring
and fall)



2022 Temperature Data Logger Survey



- 17 Stations on 2 streams
 - Whitemans/Horner: 13
 - Landons: 4
- Loggers installed in late June & retrieved in November
- Temperature taken every 30 minutes

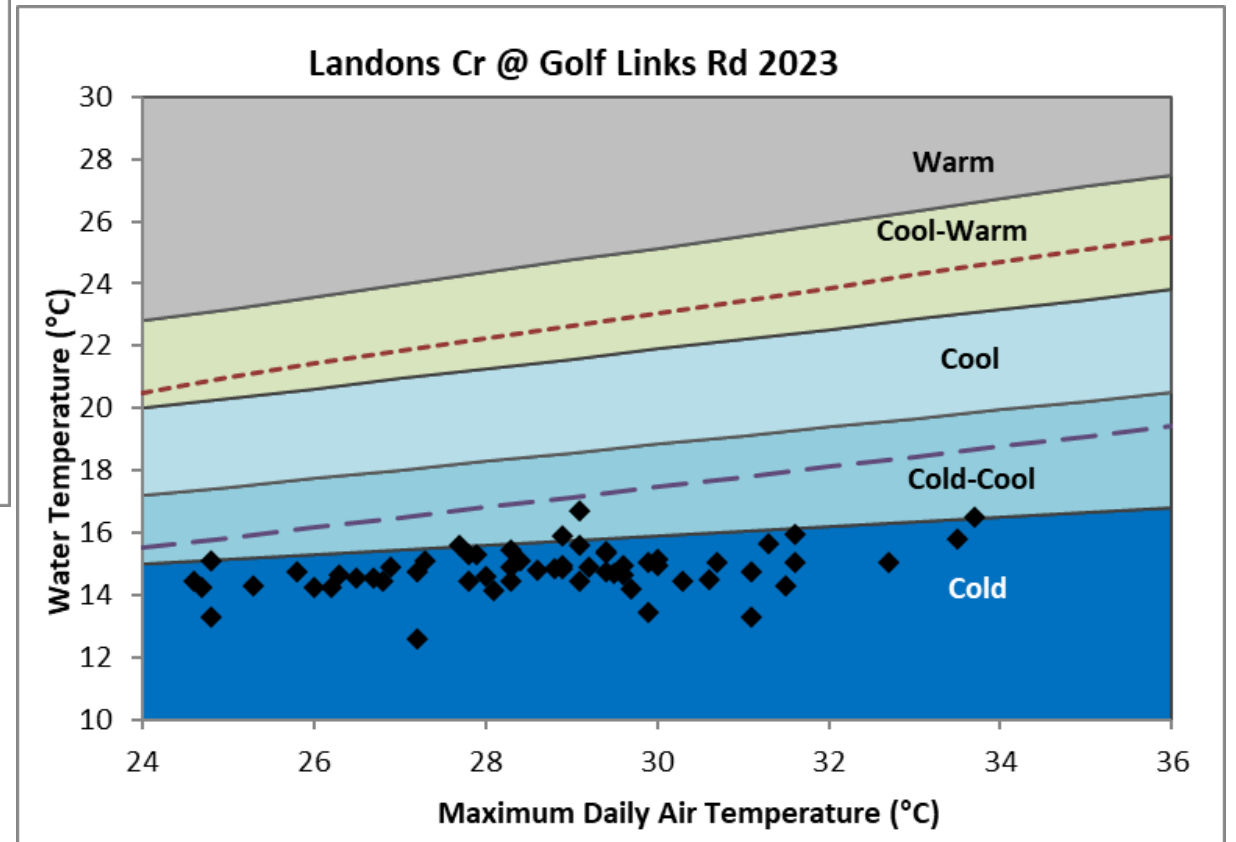
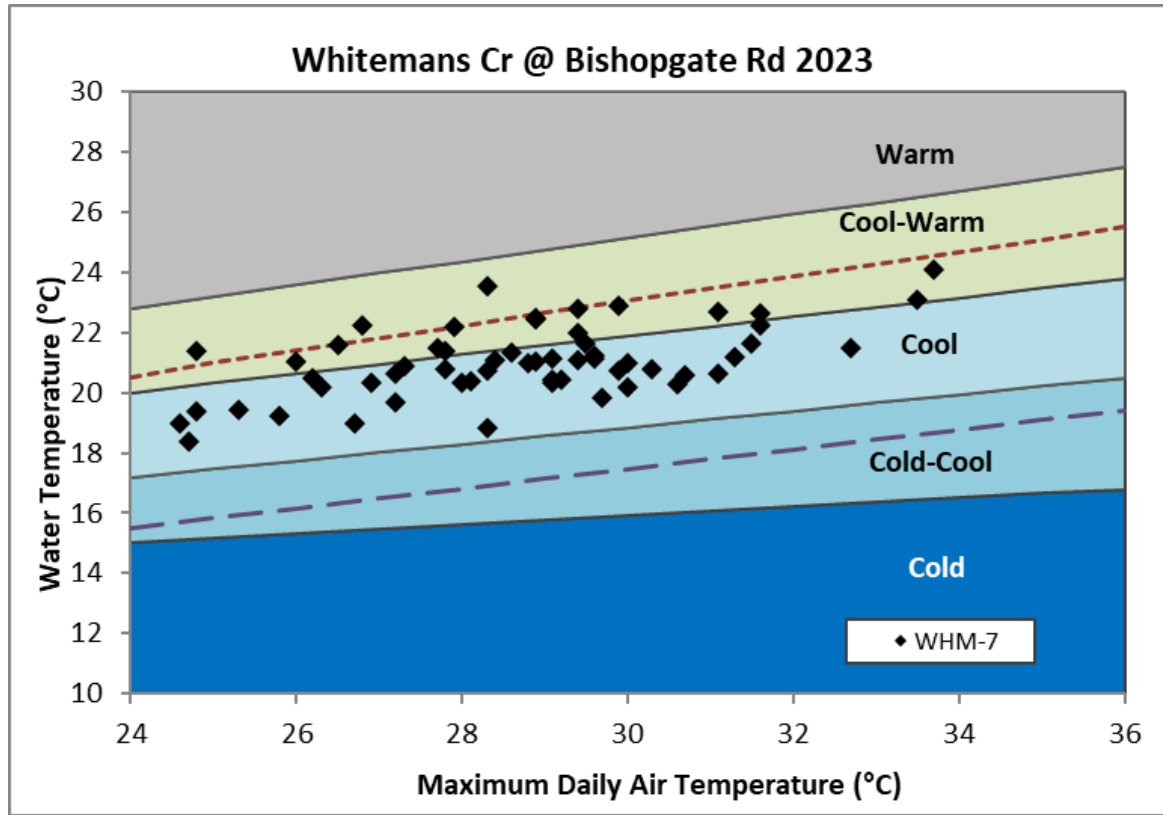


Thermal Categories

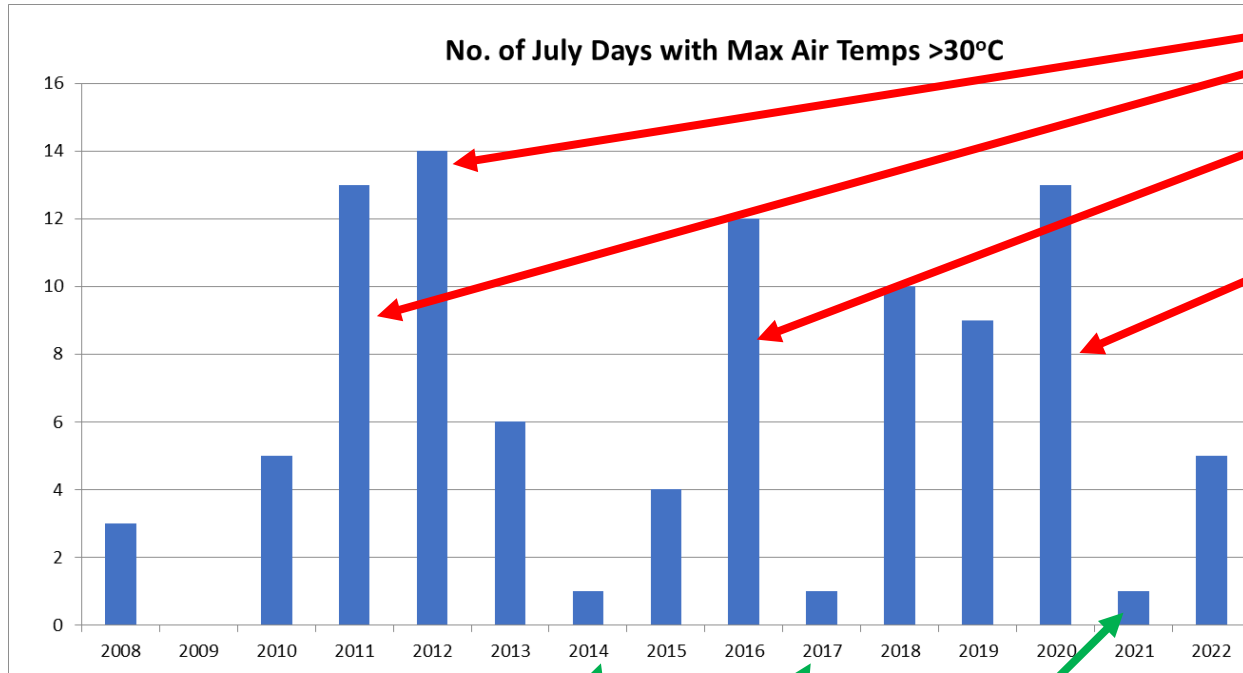
(based on mean July Temperature and Nomograms)

| Category | Mean July Temp (°C) | Fish Community |
|------------------------|---------------------|--|
| Cold | < 16.9 | Brook Trout, Sculpins |
| Cold-Cool Transitional | 17 – 19 | Brook, Brown, Rainbow, Trout: Sculpins |
| Cool | 19.1- 20.49 | Rock Bass, Darters, Rainbow & Brown Trout, some minnows |
| Cool-Warm Transitional | 20.5 - 21.99 | Walleye, Perch, Darters, Pike, Smallmouth Bass, most minnows |
| Warm | >22 | Carp, Sunfish, Largemouth Bass, |

Temperature Nomogram Examples

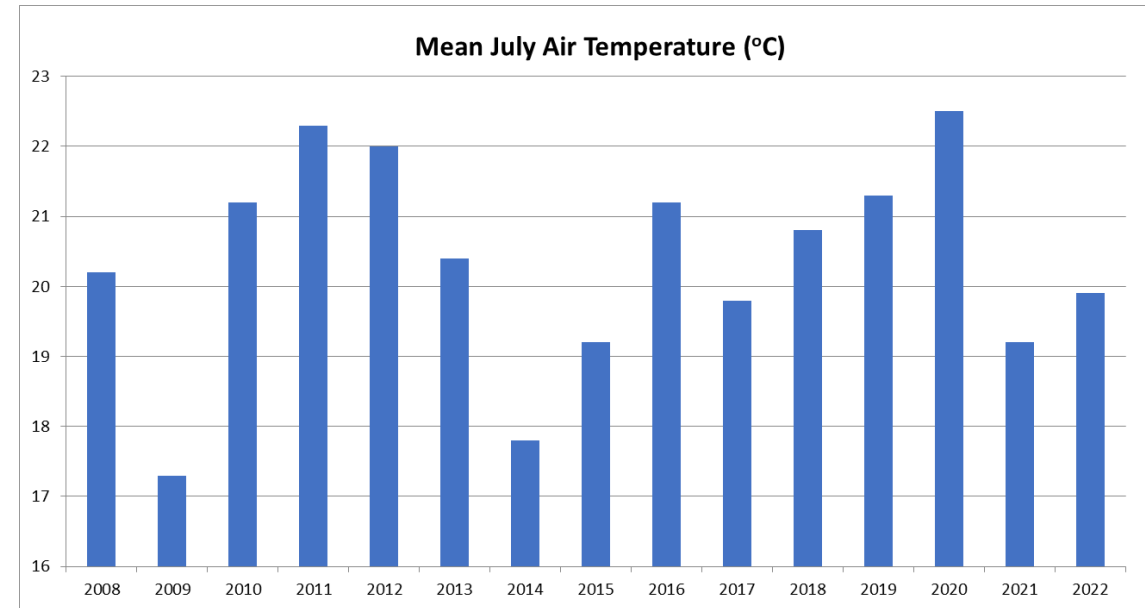


Recent Weather Trends (Brantford Airport)

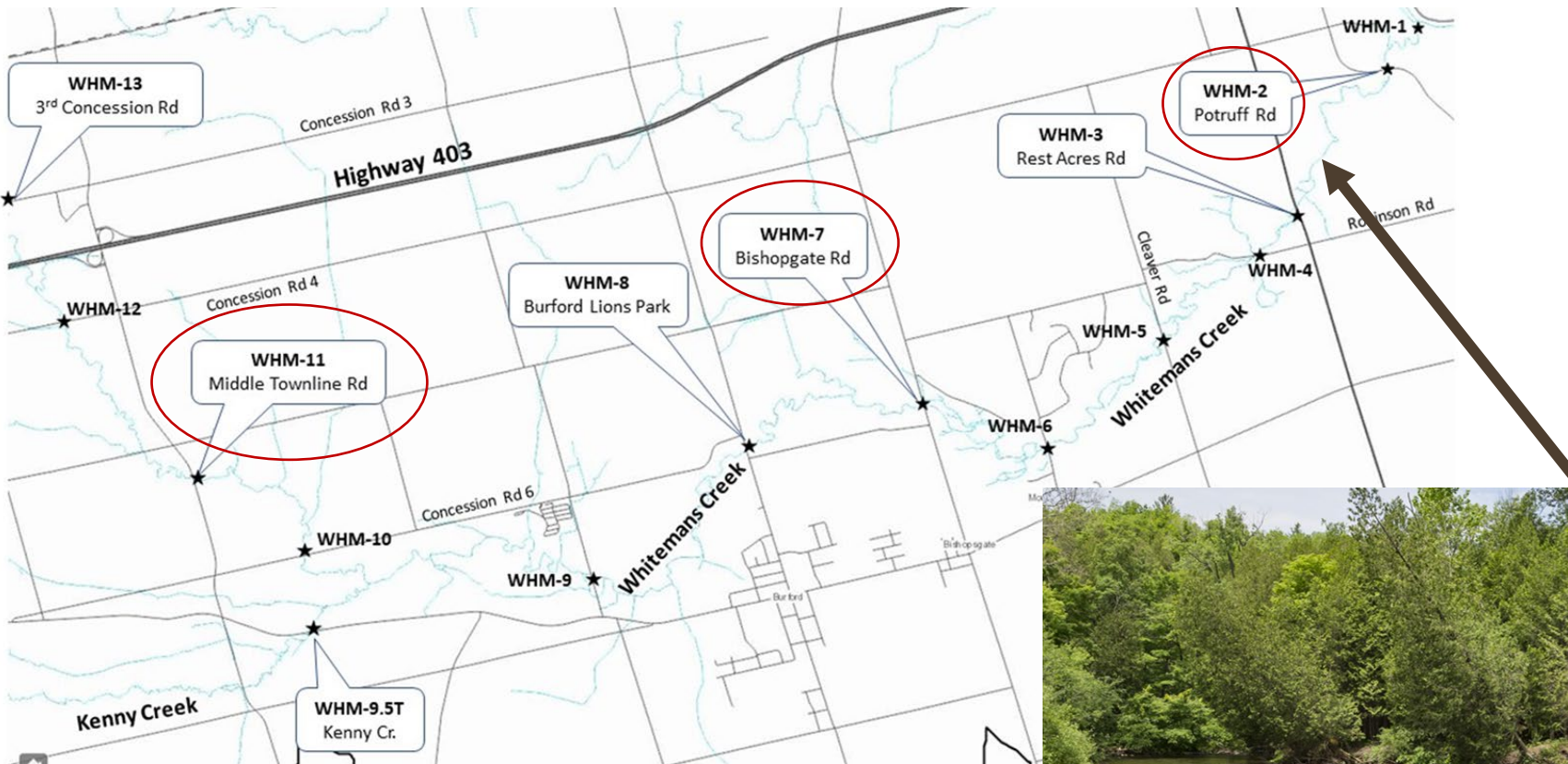


Bad for Trout Survival

Good for Trout Survival

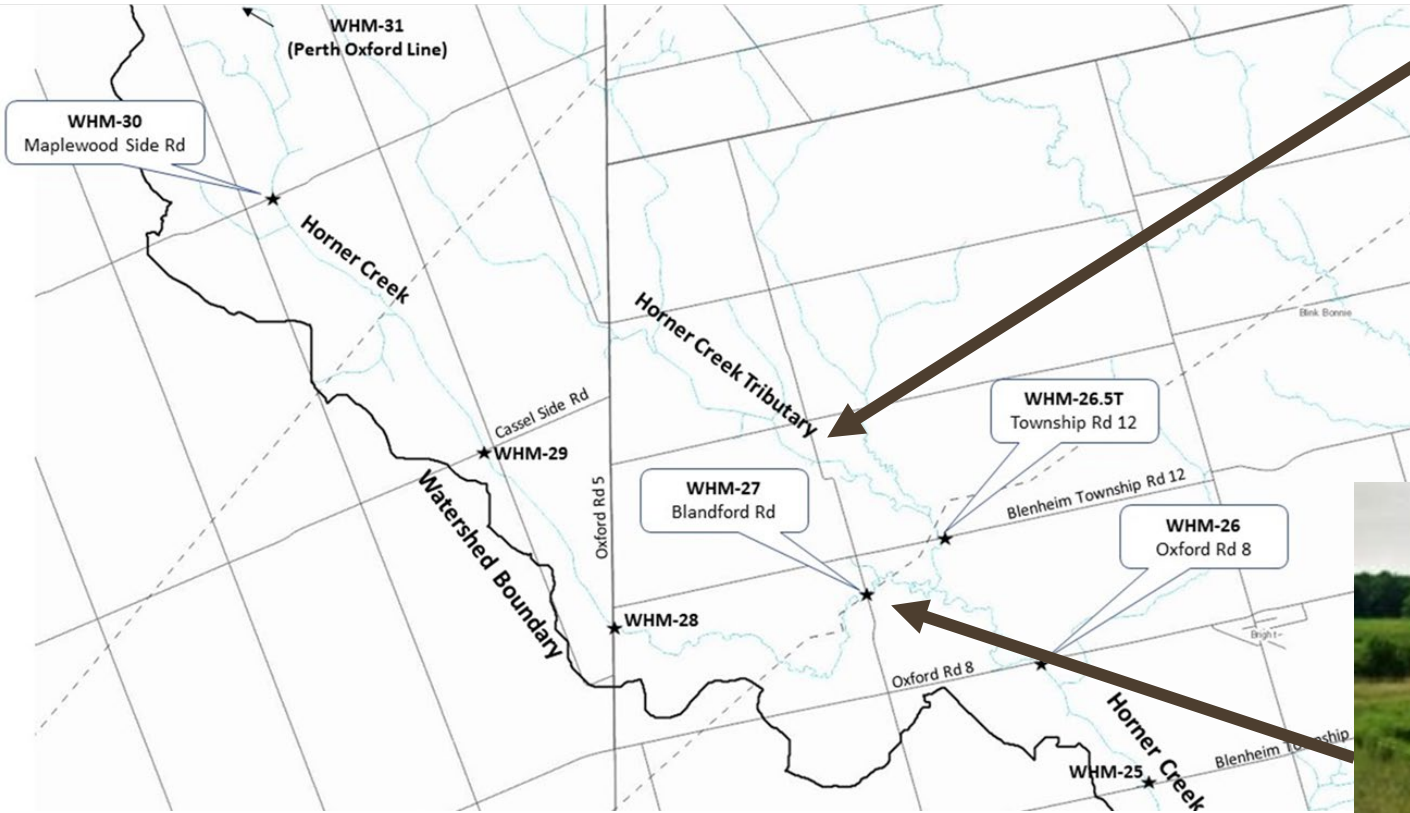


Lower Whitemans Temperature Stations



- Well forested
- Relatively deep valley, good gradient
- Lots of groundwater and cold tributaries

Upper Horner Creek (Headwaters)



- Tight clay soils
- Intensive agriculture
- Riparian: almost 100% open Canopy

2022 Temperature Summary: Whitemans Creek

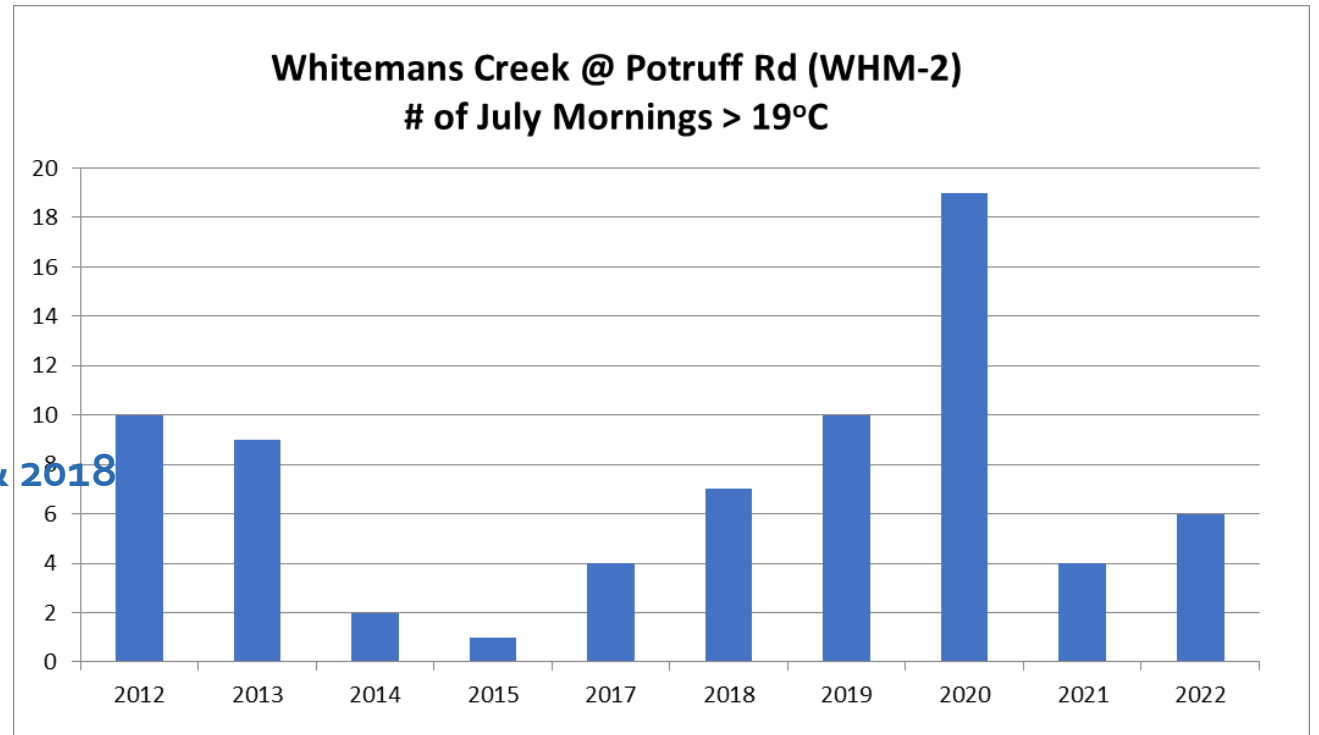
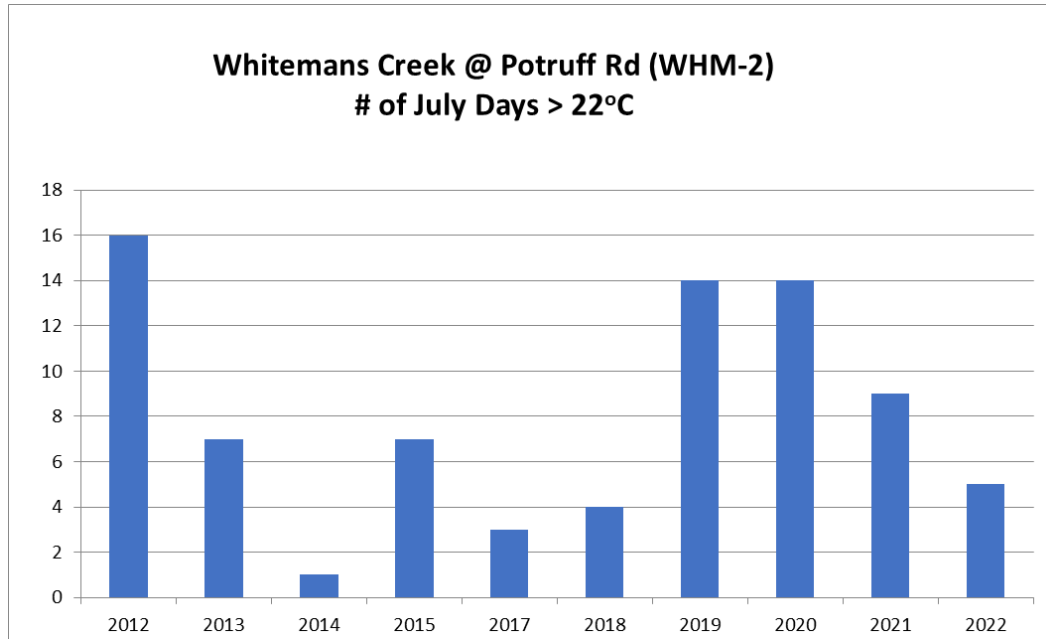
Mouth



Source

| STATION | LOCATION | Thermal Classification | July 2022 Metric Value (°C) | | | Number of July Days in 2022 | | |
|---------|-----------------|------------------------|-----------------------------|----------|-------|-----------------------------|-----------|-----------|
| | | | Mean | Mean Max | Max | Max >20°C | Max >22°C | Min >19°C |
| WHM-2 | Potruff Road | Cool | 19.28 | 20.84 | 23.33 | 24 | 5 | 6 |
| WHM-5 | Cleaver Rd | Cool | 19.8 | 22.12 | 24.99 | 29 | 19 | 6 |
| WHM-7 | BishopGate Rd | Cool | 20.19 | 21.8 | 24.44 | 29 | 11 | 11 |
| WHM-11 | Middle Townline | Cool | 19.63 | 20.61 | 23.04 | 21 | 6 | 9 |
| WHM-16 | Blenheim Rd 2 | Cool-Warm | 21.68 | 23.28 | 26.28 | 31 | 28 | 23 |
| WHM-18 | Blenheim Rd 4 | Cool-Warm | 21.38 | 23.79 | 27.65 | 30 | 29 | 19 |
| WHM-20 | Highway 401 | Cool | 19.19 | 20.79 | 23.52 | 21 | 6 | 6 |
| WHM-22 | Oxford Rd 29 | Logger Missing | | | | | | |
| WHM-23 | Hubbard Rd | Battery Dead | | | | | | |
| WHM-24 | Blenheim Rd 9 | Cool-Warm | 21.05 | 23.92 | 23.92 | 31 | 28 | 10 |
| WHM-25 | Blenheim Rd 10 | Battery Dead | | | | | | |
| WHM-26 | Oxford Rd 8 | Warm | 23.12 | 25.86 | 29.24 | 31 | 31 | 27 |
| WHM-27 | Blandford Rd | Warm | 21.32 | 22.93 | 25.55 | 31 | 31 | 21 |

Whitemans Creek Water Temperatures Trends Through Time (near mouth)

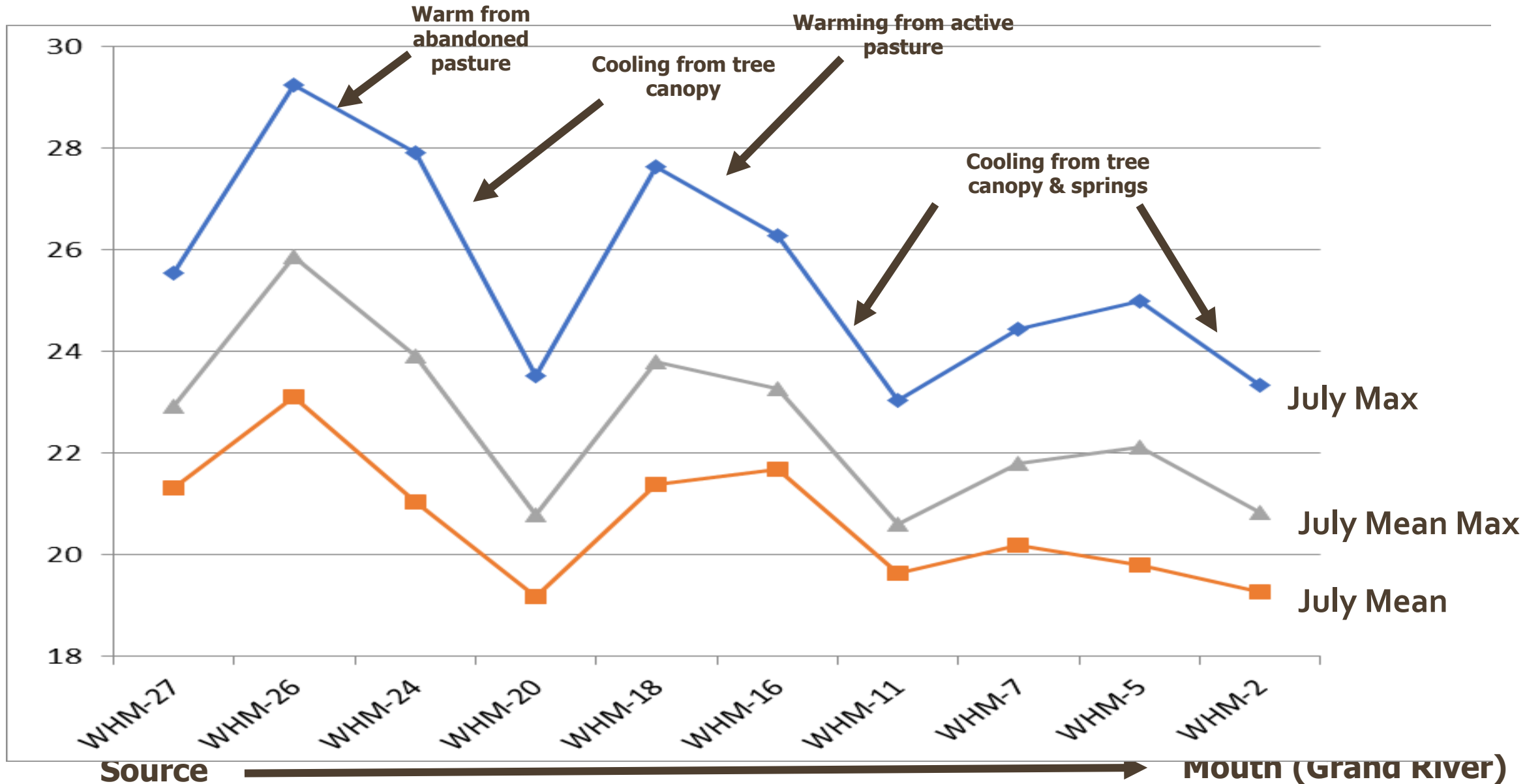


Good survival documented in 2014, 2015, 2017, & 2018

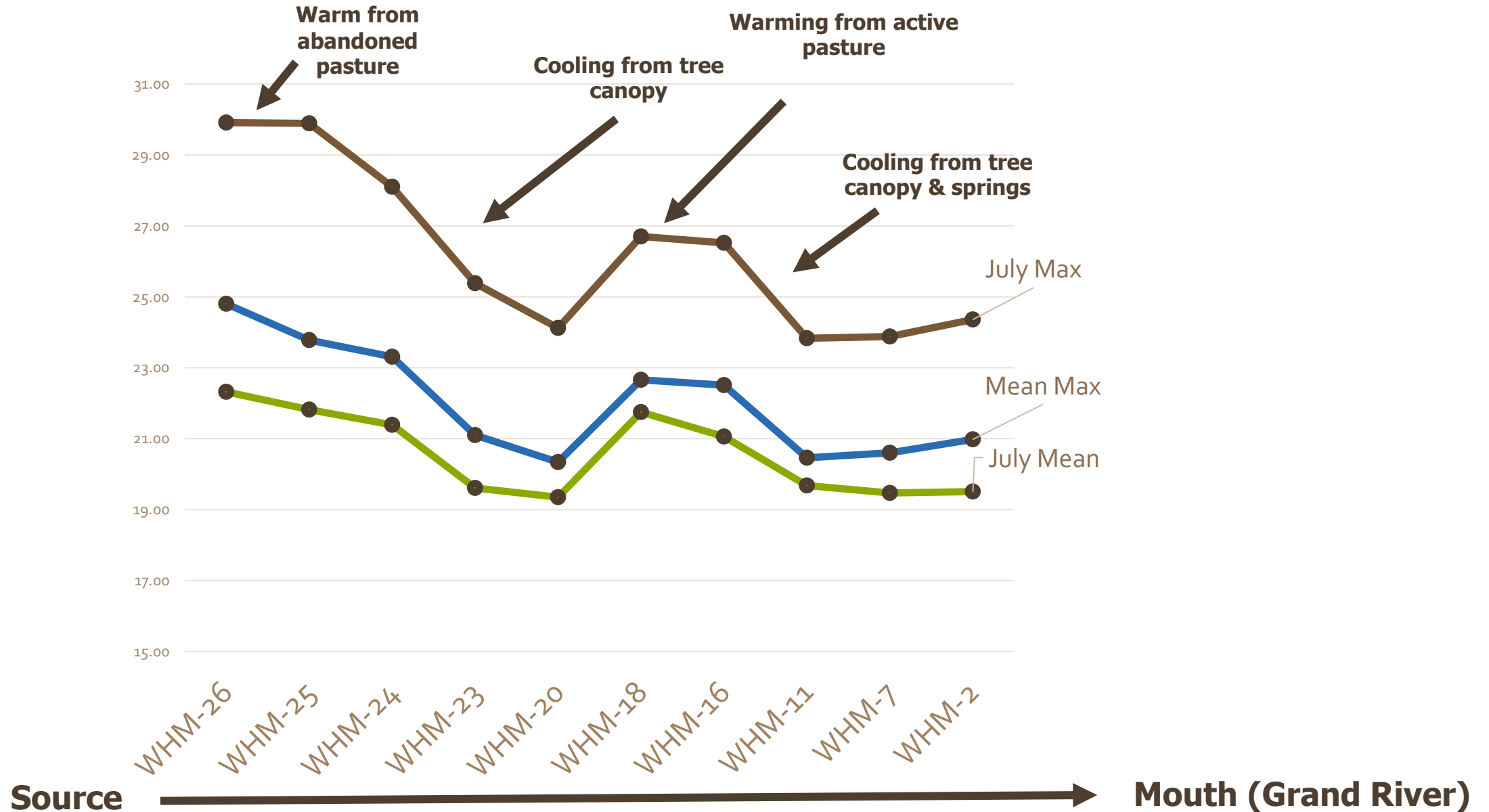
Bad survival documented in 2012, 2019 & 2020

Note: No temperature data collected in 2016
(suspected to be a bad year)

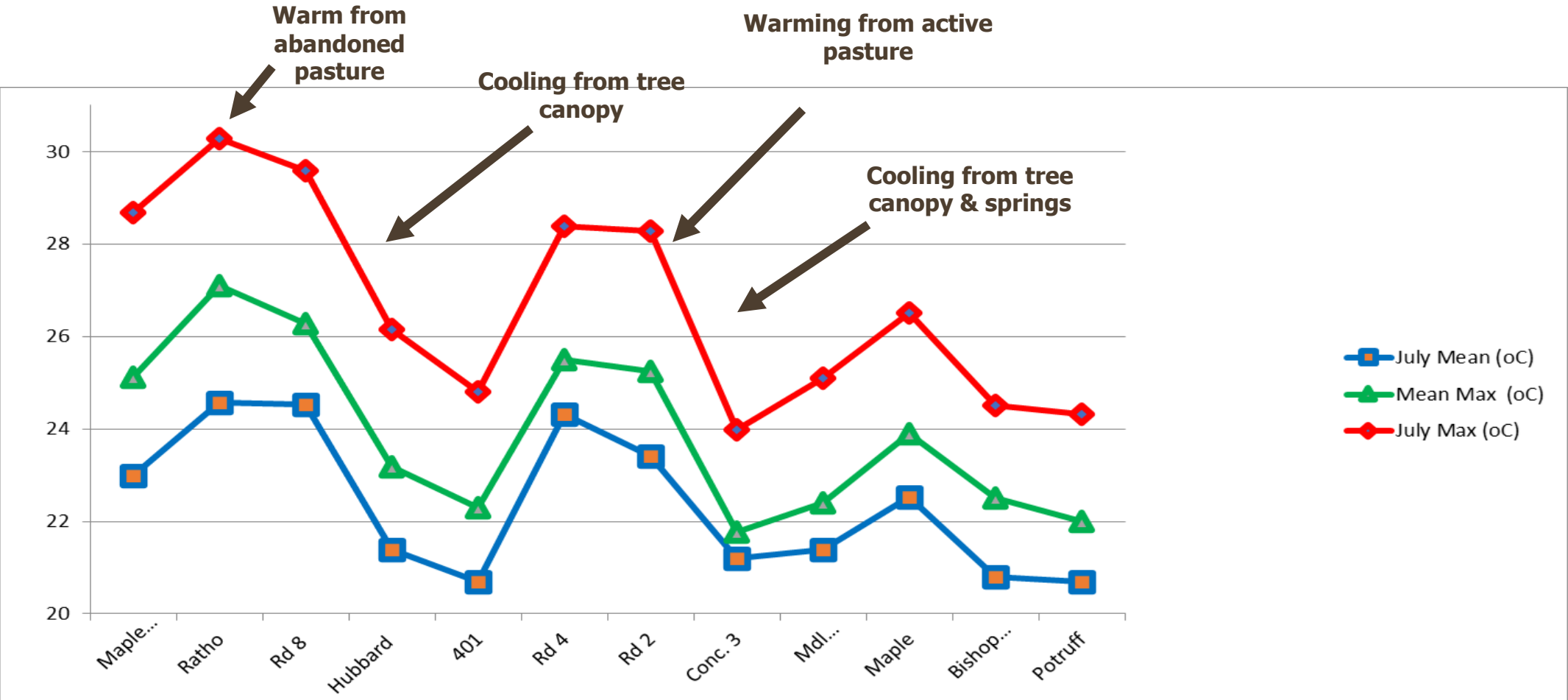
2022 Whitemans Cr. Temperature Trends (spatial)



2021 Whitemans Cr. Temperature Trends (spatial)



2020 Whitemans Cr. Temperature Trends (spatial)

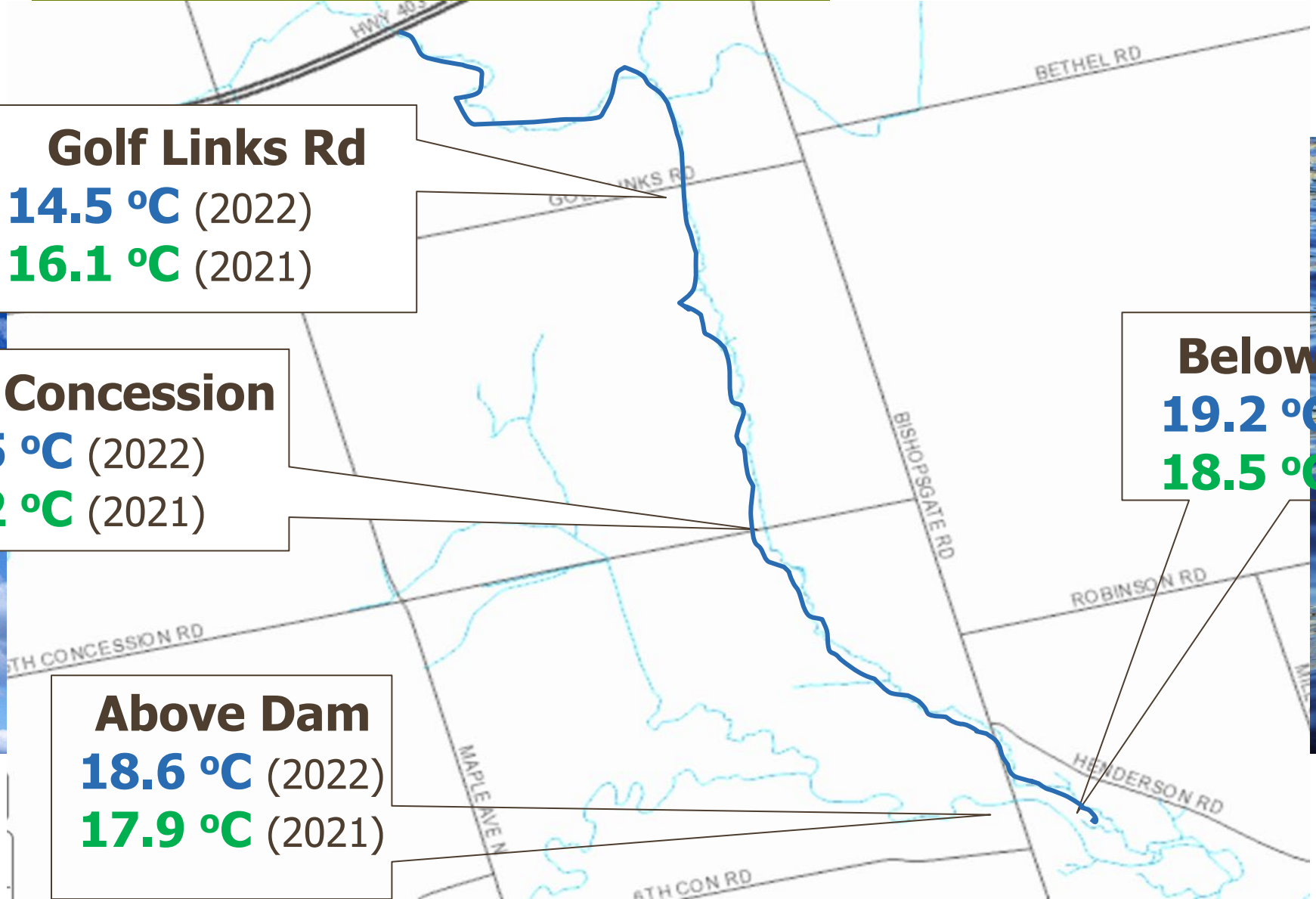


Source



Mouth (Grand River)

Landons Cr. Mean of Maximum Daily Temperatures: July 2021 & 2022



Golf Links Rd
14.5 °C (2022)
16.1 °C (2021)

5th Concession
18.5 °C (2022)
17.2 °C (2021)

Above Dam
18.6 °C (2022)
17.9 °C (2021)

Below Dam
19.2 °C (2022)
18.5 °C (2021)



Conclusions/ What's next in 2023

- Additional temperature monitoring in 2023 to build long term data sets
- Temperature data is an inexpensive, easy way to inform where we should best direct our outreach and rehabilitation efforts (e.g. tree planting in areas with low canopy cover)
- E-fishing in 2023 will focus on Landons Creek
- We will establish an series of easily accessed spawning survey index stations in 2023 to better track trends in adult trout abundance through time .

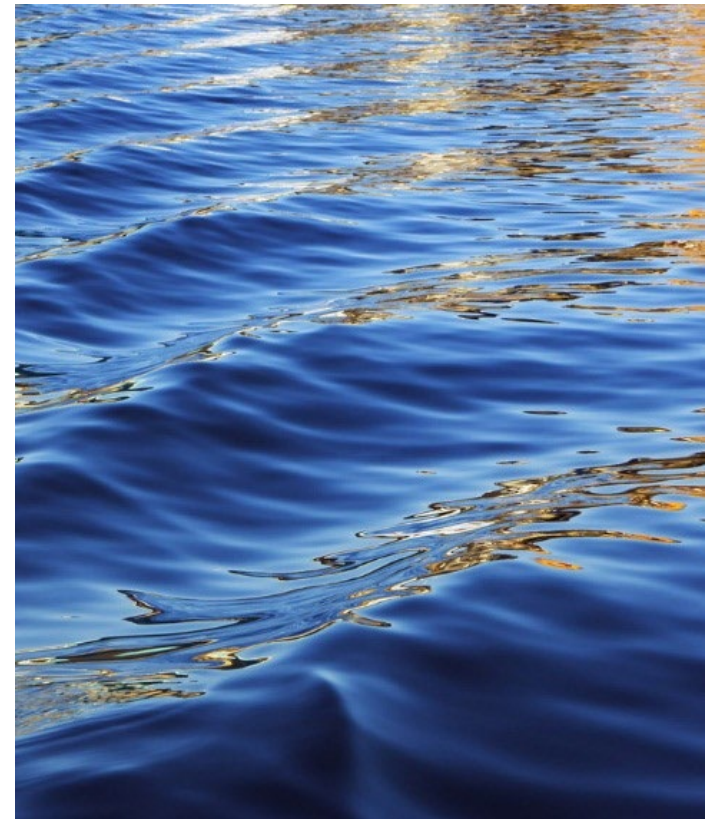


Spawning steelhead - Whitemans Creek



Communications Report

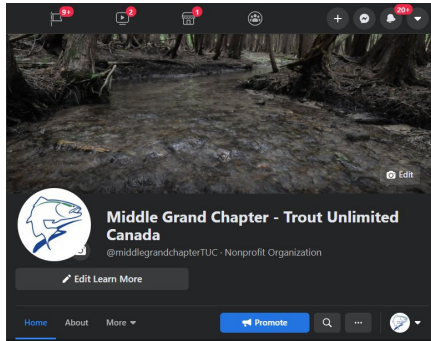
Andy Dietrich



Trout Unlimited Canada



Truite Illimitée Canada



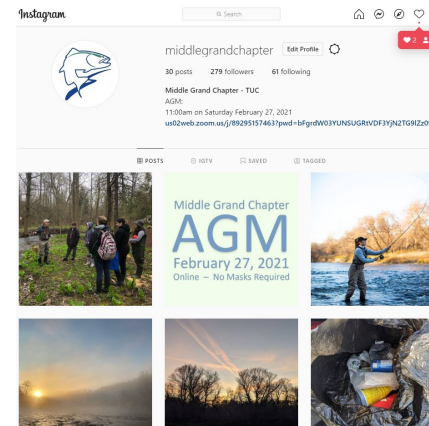
[MiddlegrandchapterTUC](https://www.facebook.com/middlegrandchapterTUC)

882 Likes
943 Followers



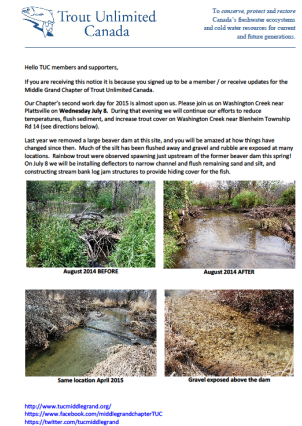
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MIDDLE GRAND CHAPTER


Our Trout Unlimited Chapter focuses its efforts on the Middle Grand River and its tributaries within Ontario.

GET INVOLVED

 Middle Grand Chapter - Tro...
943 followers

 Followed Learn more

 Middle Grand Chapter - Trout Unlimited Canada
on Friday



Saving Streamers Fly

2023 Membership Renewal

All current memberships expire March 31, 2023
Minimum donation of \$40 (tax deductible)

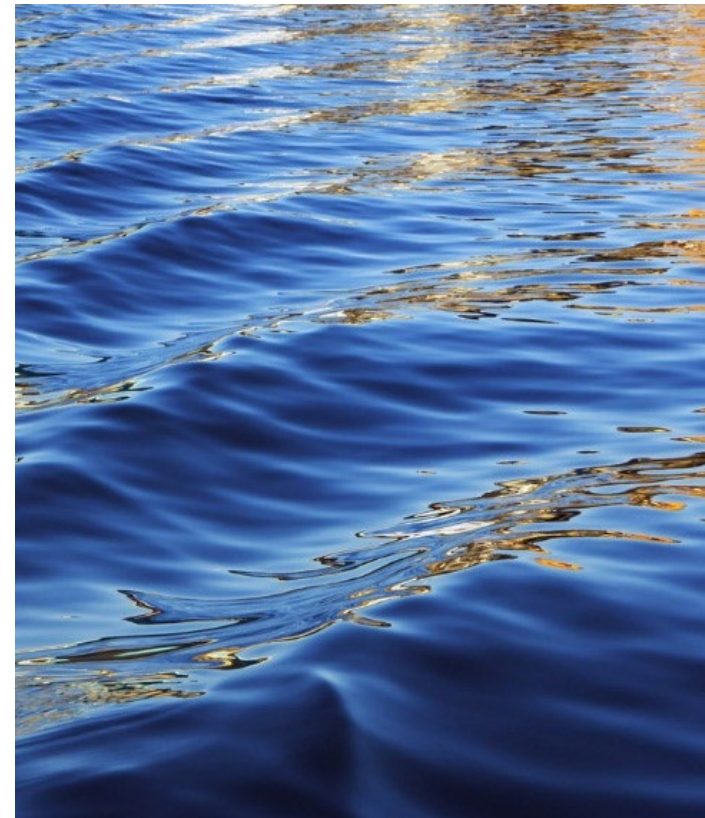
Half of your membership donation goes directly to the
Chapter of your Choice

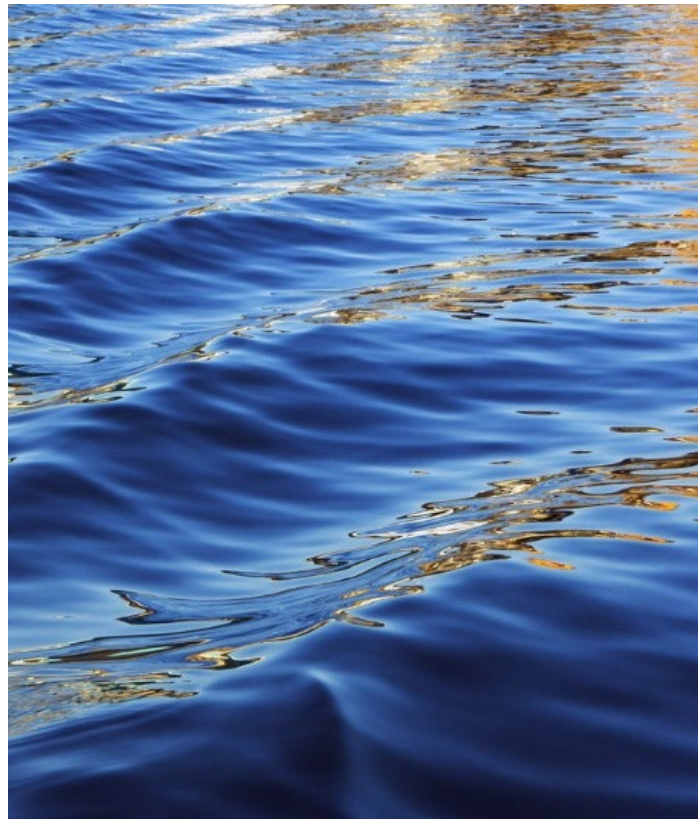




Questions?

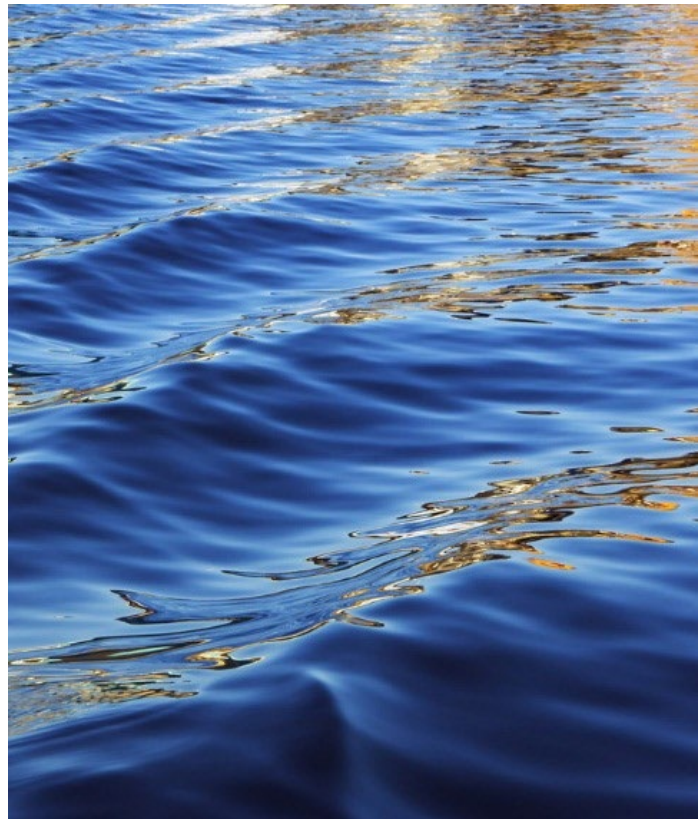
Please use the chat OR click raise hand





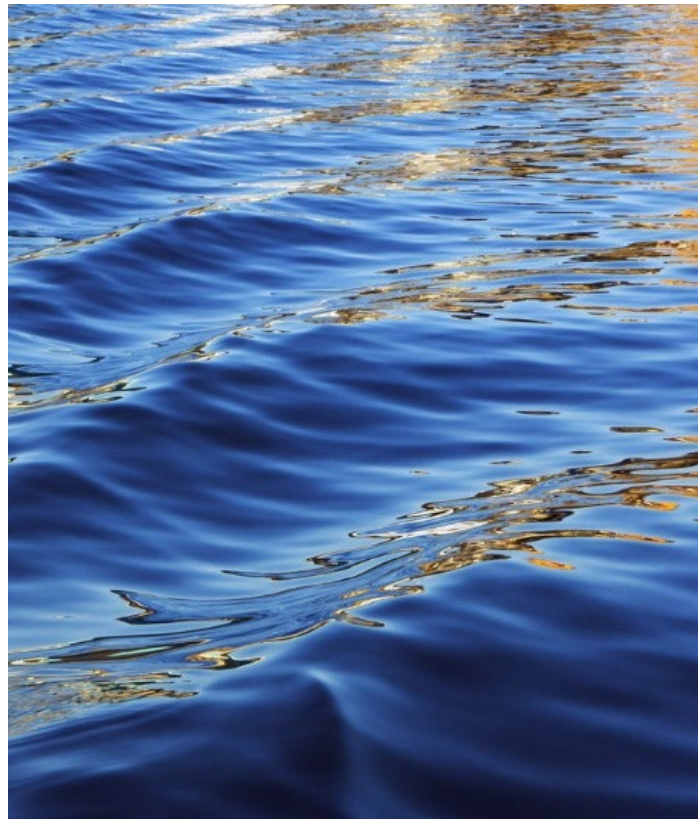


NOMINATIONS





Presentation





Thank You

Trout Unlimited Canada



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