



# 2021 Stream Survey Report

## PINE RIVER - CTH A TREND SITE

(WBIC 247800)

Waushara County

### INTRODUCTION AND OBJECTIVES

Pine River is Class 1 from upstream of Wild Rose Pond downstream to Saxeville and class 2 from Saxeville downstream to Poysippi, for a total of 27.50 miles of trout water. The Pine River is located in Waushara County and is part of the Pine and Willow River watershed. Unlike the other Pine River Trend site, this one has not had much for habitat development work in the past. Objectives of the trend survey are to monitor relative abundance and size structure.

Regulations: **Red** (upstream Wild Rose Millpond) Size Limit: All Trout - none Daily Bag Limit: 3 (in total)  
**Yellow** (downstream Wild Rose Millpond) Size Limit: All Trout - 8 inches Daily Bag Limit: 3 (in total)

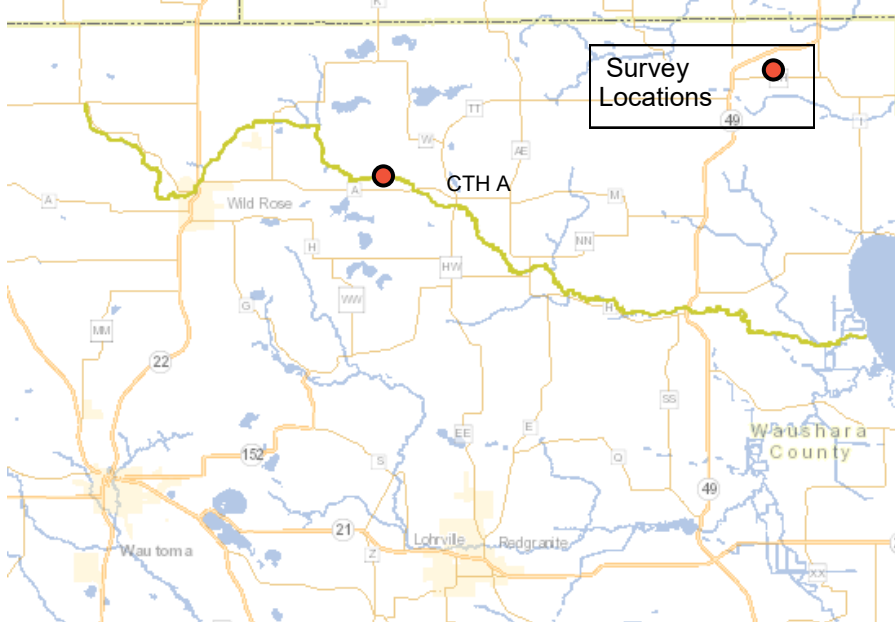
### WISCONSIN DNR CONTACT INFO.

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### SURVEY INFORMATION

Site location	Survey Date	Station Length	Water Temperature (F)	GPS (Start/Finish)	Gear	Dippers
CTH A TREND	09/02/2021	2000 ft.	56	44.1863,-89.1541 44.1854,-89.1587	Towed Barge Shocker	3



### Metric Descriptions

- Catch per effort (CPUE)** is an indirect method of measuring fish population relative abundance. For all trout surveys we typically quantify CPUE by the number and size of trout captured per mile of stream. CPUE indexes are compared to statewide streams by percentile (PCTL). For example, if a CPUE is in the 90th percentile, it is higher than 90% of the other CPUEs in the state. CPUE percentiles can also be used to categorize trout abundance by 33rd (low density), 66th (moderate), 90th (high), and 95th (very high) benchmarks.
- Length frequency distribution** describes size structure and is the number of trout captured and grouped by one inch size intervals.

### Survey Method

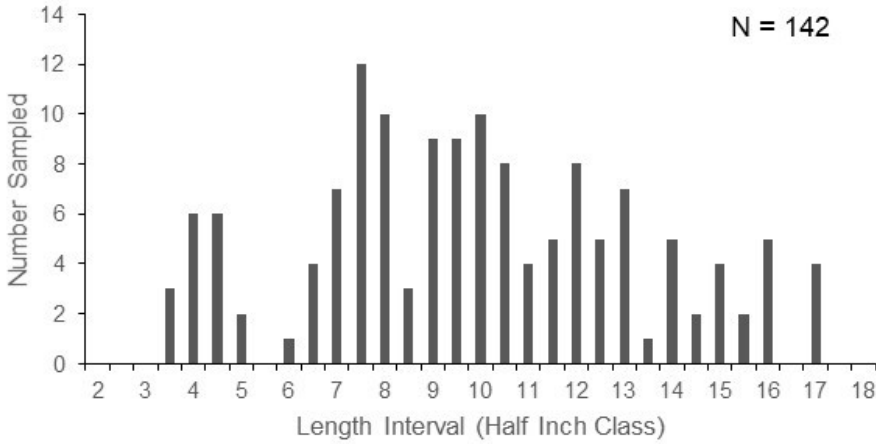
- The CTH A trend site has been surveyed annually since 2005. This particular site is 2000 feet in length and is electrofished with a towed barge stream shocker. All captured trout are identified to species, measured for length, and examined for fin clips.
- Metrics used to evaluate fish populations include catch rate by size and proportions of length.





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Brown Trout Length Distribution



SIZE AND ABUNDANCE (CPUE) METRICS - BROWN TROUT

Year	Average Length (Inches)	Length Range (Inches)	Number Sampled	CPUE (Number per Mile) Statewide Percentile in Parenthesis						
				Total (PCTL)	YOY	>6" (PCTL)	>8" (PCTL)	>10" (PCTL)	>12" (PCTL)	>15" (PCTL)
2005	9.6	(4.3-17.4)	67	118 (45th)	0	109 (55th)	77 (60th)	42 (60th)	26 (65th)	7 (75th)
2006	9.4	(3.7-16.4)	91	160 (50th)	7	151 (60th)	106 (65th)	63 (65th)	32 (70th)	7 (75th)
2007	10.5	(4.5-18.5)	87	153 (50th)	2	151 (60th)	125 (70th)	83 (75th)	40 (75th)	9 (75th)
2008	10.5	(4.1-15.9)	79	139 (45th)	11	129 (60th)	100 (65th)	79 (70th)	55 (80th)	11 (80th)
2009	9.2	(3.9-17.0)	106	187 (55th)	25	157 (60th)	118 (65th)	69 (70th)	33 (70th)	11 (80th)
2010	10.4	(5.3-18.1)	54	95 (40th)	0	93 (50th)	69 (55th)	40 (60th)	25 (65th)	12 (85th)
2011	9.0	(3.5-17.7)	115	202 (55th)	25	178 (65th)	120 (65th)	63 (65th)	33 (70th)	11 (80th)
2012	9.5	(3.9-16.2)	150	264 (60th)	16	239 (70th)	165 (75th)	118 (80th)	56 (80th)	12 (85th)
2013	9.5	(3.6-16.6)	104	183 (50th)	14	169 (65th)	139 (70th)	85 (75th)	40 (75th)	11 (80th)
2014	10.3	(3.3-17.8)	99	261 (60th)	13	247 (75th)	211 (80th)	119 (80th)	79 (85th)	18 (90th)
2015	10.2	(3.9-19.2)	93	246 (60th)	32	203 (70th)	179 (75th)	95 (75th)	68 (85th)	32 (95th)
2016	10.1	(4.4-20.4)	92	242 (60th)	16	224 (70th)	148 (70th)	87 (75th)	61 (85th)	21 (90th)
2017	10.5	(4.1-19.8)	120	316 (65th)	13	303 (75th)	235 (80th)	150 (85th)	79 (85th)	26 (95th)
2018	9.6	(2.8-18.2)	177	467 (70th)	37	417 (80th)	309 (85th)	248 (90th)	135 (95th)	37 (95th)
2019	11.2	(3.2-20)	67	177 (50th)	11	166 (65th)	137 (70th)	108 (75th)	74 (85th)	34 (95th)
2021	9.9	(3.7 - 17.4)	142	375 (69th)	8	330 (80th)	267 (84th)	185 (89th)	114 (94th)	40 (98th)

**SUMMARY**

- The 2021 survey indicated brown trout density for adult size fish rebounded nicely from the previous survey in 2019 which was at its lowest since the 2010 survey. The levels in 2021 were moderate to high with CPUEs ranking at the 80th percentile for >6-inch trout, which was near average for this station/
- Young of the year (YOY) numbers are typically low in this section of the Pine River because of the lack of suitable spawning habitat.
- This section of the Pine River provides fair action for medium size fish with a chance at a trophy.
- There are some deep "hat floater" holes present in this station so take some precautions when wading!
- Abundant instream vegetation exists in certain areas, especially within "run" sections at this site.
- Little to no habitat work has been done on this section of the Pine River recently, but with the riparian area being ash tree dominant, there could be opportunities to utilize some of these trees for instream habitat before they are potentially impacted by the Emerald Ash Borer.