



# WISCONSIN DEPARTMENT OF NATURAL RESOURCES

## 2023 Trout Surveys Report Oshkosh Work Unit , Marquette, Shawano, Waupaca, and Waushara Counties

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### Introduction And Objectives

In 2023, the Wisconsin Department of Natural Resources (DNR) conducted electrofishing surveys on wadable streams located in Marquette, Shawano, Waushara and Waupaca counties in order to provide insight and direction for the future management of these waters. Primary sampling objectives of these surveys were to characterize relative abundance and size structure for all trout and overall ecological integrity through an index of biotic integrity (IBI) based on all fish species present in the sampled stretches. The following report is a summary of trout metrics for all streams and sites surveyed in 2023. Individual summary reports are also available for each stream surveyed. Contact the appropriate county fisheries biologist to request them.

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Photo Credit: DNR Staff

### Survey Method

All streams are sampled according to the DNR's wadable streams monitoring protocols.

- Trend survey sites are sampled annually in Shawano and Waupaca Counties, and bi annually in Marquette and Waushara Counties, while ROTATION sites are sampled on a rotational frequency (3, 6 or 12 years).
- All sampling sites are electrofished with either a towed barge or backpack electrofishing unit.
- Sampling distance is at least 35 times the mean stream width or a minimum of 330 feet (100 meters), whichever is greater.
- All gamefish are identified to species, measured for length and examined for fin-clips. In at least one survey site per stream, all fish species are collected and counted. If multiple sites are designated for a stream, only one site needs to be sampled for all fish.
- Metrics used to describe fish populations include catch per unit effort (CPUE), length frequency distribution and index of biotic integrity (IBI).



Photo Credit: DNR Staff

### Metric Descriptions

- **Catch per unit effort (CPUE)** is a method of quantifying fish population relative abundance. For all trout surveys, we typically quantify CPUE as the number of a given size class of trout captured per mile of stream. CPUE indexes are compared to other trout streams throughout Wisconsin by what percentile (PCTL) they fall out in. 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 as low density (<33rd percentile), moderate density (33rd - 66th percentile), high density (66th - 90th percentile) and very high density (>90th percentile).
- **Length frequency distribution** is a graphical representation of the number or percentage of fish captured by half inch or one inch size intervals.
- **Index of Biotic Integrity (IBI)** is a rating of environmental quality based on the fish assemblage. Scores of 90 - 100 indicate excellent stream quality, while scores less than 30 indicate poor stream quality. Our analysis utilizes the IBI for Wisconsin coldwater streams. Coldwater streams in Wisconsin are those in which the maximum daily mean water temperature is usually <22°C (71.6°F). A coolwater stream IBI may also be used when a stream doesn't fit the temperature criteria for a coldwater stream.

### Acknowledgments and Notes

We would like to thank Chris Ascher, Aaron O'Connell, Trevor Hoheisel, Adam Nickel, Tom Meronek, Scott Bunde, and Elliot Hoffman who were the primary crew members responsible for daily stream survey work and data entry/analysis. There were other staff, too numerous to list who helped to complete these surveys throughout the summer. Their assistance was greatly appreciated.

In total, this past survey season the Upper Fox and Wolf River work unit was able to survey 9.93 miles of stream. 2,202 brook trout, 5,681 brown trout, and 1,273 other fish of various species were captured during the surveys.



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| SURVEY INFORMATION             |           |                       |                    |              |                        |                       |                                         |                        |         |
|--------------------------------|-----------|-----------------------|--------------------|--------------|------------------------|-----------------------|-----------------------------------------|------------------------|---------|
| Stream Name                    | County    | Survey Type           | Site Location      | Survey Dates | Water Temperature (°F) | Station Length (feet) | GPS (Start/Finish)                      | Gear                   | Dippers |
| Chaffee Creek                  | Waushara  | Trout - Trend         | CTH Y to CTH Z     | 08/01/2023   | 58                     | 4000                  | 43.9502, -89.3654<br>43.9522, -89.3749  | Towed Barge Shocker    | 3       |
| Little Wolf River              | Waupaca   | Trout - Trend         | Ness Road          | 07/25/2023   | 61                     | 3000                  | 44.6177, -89.1645<br>44.6213, -89.1730  | Towed Barge Shocker    | 3       |
| Mecan River                    | Waushara  | Trout - Trend         | STH 21             | 08/17/2023   | 60                     | 2000                  | 44.0259, -89.4407<br>44.0295, -89.4438  | Towed Barge Shocker    | 3       |
| Mill Creek                     | Shawano   | Trout - Trend         | Winkle Road        | 08/09/2023   | 60                     | 1250                  | 44.8115, -88.8216<br>44.8132, -88.8228  | Towed Barge Shocker    | 3       |
| North Branch Embarrass River   | Shawano   | Trout - Trend         | CTH D              | 07/27/2023   | 61                     | 2000                  | 44.9034, -89.0344<br>44.9056, -89.0366  | Towed Barge Shocker    | 3       |
| Peterson Creek                 | Waupaca   | Trout - Trend         | Jensen Road        | 7/25/2023    | 64                     | 2000                  | 44.3589, -89.1681<br>44.4354, -89.1768  | Towed Barge Shocker    | 3       |
| Pine River                     | Waushara  | Trout - Trend         | CTH A              | 08/16/2023   | 60                     | 2000                  | 44.1863, -89.1541<br>44.1854, -89.1587  | Towed Barge Shocker    | 3       |
| Pine River                     | Waushara  | Trout - Trend         | 19th Lane          | 08/02/2023   | 60                     | 2300                  | 44.2045, -89.2231<br>44.2030, -89.2271  | Towed Barge Shocker    | 3       |
| Radley Creek                   | Waupaca   | Trout - Trend         | STH 22             | 07/24/2023   | 52                     | 2000                  | 44.2767, -89.1681<br>44.2759, -89.1928  | Towed Barge Shocker    | 3       |
| Waupaca River                  | Waupaca   | Trout - Trend         | CTH Q              | 09/06/2023   | 68                     | 2800                  | 44.3806, -89.1785<br>44.3767, -89.1838  | 2x Towed Barge Shocker | 3       |
| White River                    | Waushara  | Trout - Trend         | Cottonville Lane   | 08/18/2023   | 58                     | 2000                  | 44.0439, -89.2776<br>44.0464, -89.2820  | Towed Barge Shocker    | 3       |
| Willow Creek                   | Waushara  | Trout - Trend         | Blackhawk Road     | 08/23/2023   | 63                     | 2000                  | 44.1029, -89.1323<br>44.1051, -89.1364  | Towed Barge Shocker    | 3       |
| Basteen Creek                  | Waupaca   | Trout - Rotation      | Spring Street      | 07/11/2023   | 58                     | 330                   | 44.4489, -89.0336<br>44.4480, -89.0340  | Backpack Shocker       | 1       |
| Bird Creek                     | Waushara  | Trout - Trend         | Behind High School | 08/19/2023   | 55                     | 800                   | 44.0686, -89.3028<br>44.0696, -89.3038  | Towed Barge Shocker    | 3       |
| Davies Creek                   | Waushara  | Trout - Rotation      | CTH K              | 07/17/2023   | 55                     | 394                   | 44.2129, -89.1972<br>44.2135, -89.1973  | Towed Barge Shocker    | 3       |
| Gesky Creek                    | Waupaca   | Trout - Rotation      | CTH E              | 07/11/2023   | 60                     | 330                   | 44.6505, -89.0121<br>44.6502, -89.0130  | Backpack Shocker       | 1       |
| Humphrey Creek                 | Waushara  | Trout - Rotation      | CTH K              | 07/17/2023   | 55                     | 526                   | 44.1825, -89.1959<br>44.1824, -89.1968  | Towed Barge Shocker    | 3       |
| Jones Creek                    | Waushara  | Trout - Rotation      | HWY 22             | 07/24/2023   | 54                     | 330                   | 44.2010, -89.2421<br>44.2015, -89.2427  | Backpack Shocker       | 1       |
| Kaminski Creek                 | Waushara  | Trout - Rotation      | CTH A - Up         | 07/24/2023   | 58                     | 225                   | 44.1825, -89.1958<br>44.1825, -89.1966  | Backpack Shocker       | 1       |
| Kaminski Creek                 | Waushara  | Trout - Rotation      | CTH A - Down       | 07/24/2023   | 58                     | 330                   | 44.1826, -89.1944<br>44.18262, -89.1955 | Backpack Shocker       | 1       |
| Mecan River                    | Marquette | Trout - Special Study | Dixie Avenue       | 7/27/2023    | 69                     | 920                   | 43.9253, -89.3261<br>43.9536, -89.3248  | Towed Barge Shocker    | 3       |
| North Branch Embarrass River   | Shawano   | Trout - Rotation      | Schoolhouse Road   | 08/03/2023   | 64                     | 971                   | 44.8559, -88.9467<br>44.8570, -88.9463  | Towed Barge Shocker    | 3       |
| North Branch Embarrass River   | Shawano   | Trout - Rotation      | Mountain Bay Trail | 08/01/2023   | 60                     | 905                   | 44.8659, -88.9506<br>44.8679, -88.9514  | Towed Barge Shocker    | 3       |
| North Branch Embarrass River   | Shawano   | Trout - Rotation      | Butternut Road     | 08/03/2023   | 64                     | 904                   | 44.8622, -88.9709<br>44.8605, -88.9707  | Towed Barge Shocker    | 3       |
| North Branch Embarrass River   | Shawano   | Trout - Rotation      | CTH D School       | 08/01/2023   | 59                     | 1051                  | 44.8532, -88.9799<br>44.8541, -88.9826  | Towed Barge Shocker    | 3       |
| North Branch Embarrass River   | Shawano   | Trout - Rotation      | Ranger Station     | 08/03/2023   | 62                     | 952                   | 44.8640, -88.9909<br>44.8641, -88.9938  | Towed Barge Shocker    | 3       |
| North Branch Embarrass River   | Shawano   | Trout - Rotation      | Old CTH D          | 08/02/2023   | 62                     | 797                   | 44.8848, -88.0165<br>44.8861, -88.0152  | Towed Barge Shocker    | 3       |
| North Branch Embarrass River   | Shawano   | Trout - Rotation      | Maple Road         | 08/02/2023   | 60                     | 717                   | 44.9036, -89.0627<br>44.9035, -89.0645  | Towed Barge Shocker    | 3       |
| North Branch Embarrass River   | Shawano   | Trout - Rotation      | River Road         | 08/02/2023   | 60                     | 649                   | 44.9113, -89.0829<br>44.1166, -89.0845  | Towed Barge Shocker    | 3       |
| North Branch Embarrass River   | Shawano   | Trout - Rotation      | Lake Church Road   | 08/07/2023   | 58                     | 330                   | 44.9481, -89.1062<br>44.9489, -89.1063  | Backpack Shocker       | 1       |
| North Branch Little Wolf River | Waupaca   | Trout - Rotation      | CTH K              | 07/13/2023   | 62                     | 375                   | 44.4742, -89.0172<br>44.4738, -89.0178  | Towed Barge Shocker    | 3       |
| North Branch Little Wolf River | Waupaca   | Trout - Rotation      | Smith Road         | 07/17/2023   | 60                     | 330                   | 44.4828, -89.0401<br>44.4842, -89.0405  | Towed Barge Shocker    | 3       |
| North Branch Little Wolf River | Waupaca   | Trout - Rotation      | CTH E              | 07/17/2023   | 63                     | 425                   | 44.4873, -89.0412<br>44.4738, -89.0178  | Towed Barge Shocker    | 3       |
| North Branch Little Wolf River | Waupaca   | Trout - Rotation      | Knutson Lake Road  | 07/17/2023   | 55                     | 330                   | 44.5031, -89.0609<br>44.5036, -89.0615  | Backpack Shocker       | 1       |



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| SURVEY INFORMATION        |          |                  |                         |              |                        |                       |                                             |                     |         |
|---------------------------|----------|------------------|-------------------------|--------------|------------------------|-----------------------|---------------------------------------------|---------------------|---------|
| Stream Name               | County   | Survey Type      | Site Location           | Survey Dates | Water Temperature (°F) | Station Length (feet) | GPS (Start/ Finish)                         | Gear                | Dippers |
| North Branch Pigeon River | Waupaca  | Trout - Rotation | Highway 45              | 07/12/2023   | 58                     | 330                   | 44.7080, -88.9801<br>44.7085, -88.9795      | Backpack Shocker    | 1       |
| North Branch Pigeon River | Waupaca  | Trout - Rotation | Doty Creek Fishery Area | 07/11/2023   | 59                     | 414                   | 44.6701, -88.9406<br>44.6703, -88.9413      | Backpack Shocker    | 1       |
| North Branch Pigeon River | Waupaca  | Trout - Rotation | CTH SS - Downstream     | 07/12/2023   | 57                     | 330                   | 44.67357, -<br>88.9655 44.6729,<br>-88.9665 | Backpack Shocker    | 1       |
| North Branch Pigeon River | Shawano  | Trout - Rotation | CTH SS - Upstream       | 07/12/2023   | 56                     | 330                   | 44.6728, -88.9667<br>44.6720, -88.9674      | Backpack Shocker    | 1       |
| North Fork Blake Creek    | Waupaca  | Trout - Rotation | CTH E - Downstream      | 07/10/2023   | 60                     | 330                   | 44.5443, -89.0208<br>44.5449, -89.0209      | Backpack Shocker    | 1       |
| North Fork Blake Creek    | Waupaca  | Trout - Rotation | CTH E - Upstream        | 07/10/2023   | 60                     | 330                   | 44.5451, -89.0214<br>44.5460, -89.0227      | Backpack Shocker    | 1       |
| West Branch Shioc River   | Shawano  | Trout - Rotation | Porter Road             | 07/20/2023   | 54                     | 330                   | 44.7348, -88.4519<br>44.7368 -88.4512       | Towed Barge Shocker | 3       |
| Pine River                | Waupaca  | Trout - Rotation | CTH A - STH 22          | 07/19/2022   | 62                     | 505                   | 44.1847, -89.2459<br>44.1836, -89.2472      | Towed Barge Shocker | 3       |
| Pine River                | Waupaca  | Trout - Rotation | CTH A                   | 07/20/2023   | 63                     | 1330                  | 44.1809, -89.1364<br>44.1832, -89.1385      | Towed Barge Shocker | 3       |
| Pine River                | Waushara | Trout - Rotation | Aniwa Road Habitat Site | 07/19/2023   | 59                     | 892                   | 44.2052, -89.1967<br>44.2058, -89.1988      | Towed Barge Shocker | 3       |
| Pine River                | Waushara | Trout - Rotation | Portage Road            | 07/20/2023   | 66                     | 1275                  | 44.1755, -89.1251<br>44.1778, -89.1280      | Towed Barge Shocker | 3       |
| Pine River                | Waushara | Trout - Rotation | 28th Court              | 07/25/2023   | 69                     | 1200                  | 44.1412, -89.0590<br>44.1428, -89.0608      | Towed Barge Shocker | 3       |
| Pine River                | Waushara | Trout - Rotation | Aniwa Road              | 07/19/2023   | 63                     | 1060                  | 44.2032, -89.1854<br>44.2045, -89.1858      | Towed Barge Shocker | 3       |
| Pine River                | Waushara | Trout - Rotation | Apache Road             | 07/20/2023   | 59                     | 1000                  | 44.1955, -89.1827<br>44.1971, -89.1832      | Towed Barge Shocker | 3       |
| Pine River                | Waushara | Trout - Rotation | Below Saxeville Dam     | 07/25/2023   | 66                     | 1300                  | 44.1738, -89.1122<br>44.1750, -89.1138      | Towed Barge Shocker | 3       |
| West Branch Shioc River   | Shawano  | Trout - Rotation | Highway 29              | 07/20/2023   | 56                     | 540                   | 44.7357, -88.4512<br>44.7309, -88.4539      | Towed Barge Shocker | 3       |
| West Branch Shioc River   | Shawano  | Trout - Rotation | Behind School           | 08/07/2023   | 59                     | 330                   | 44.7377, -88.4532<br>44.7380, -88.4546      | Backpack Shocker    | 1       |
| West Branch Shioc River   | Shawano  | Trout - Rotation | Porter Road             | 07/20/2023   | 54                     | 330                   | 44.7348, -88.4519<br>44.7368, -88.4512      | Towed Barge Shocker | 3       |





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### Brown Trout

- Brown trout (*Salmo trutta*) are a predatory species found throughout Wisconsin, not native to the United States they were introduced in 1883. Typically brown trout spawn in gravel, forming nests called redds, from October to December. Depending on the depth and width of a stream barge shockers or backback shockers are used to sample brown trout. Both gear types were used for the surveys listed in this report.

#### TREND SITES CATCH METRICS - PER MILE

| Stream Name                  | Site Location    | Average Length and Range | Total and (PCTL) | Young of Year (YOY) per mile | >6" (PCTL) | >8" (PCTL) | >10" (PCTL) | >12" (PCTL) | >15" (PCTL) |
|------------------------------|------------------|--------------------------|------------------|------------------------------|------------|------------|-------------|-------------|-------------|
| Chaffee Creek                | CTH Y to CTH Z   | 9.6 (3.2 - 16.8)         | 504 (75)         | 1                            | 500 (86)   | 364 (89)   | 169 (87)    | 42 (78)     | 8 (77)      |
| Little Wolf River            | Ness Road        | 8.1 (2.5 - 14.3)         | 65 (37)          | 21                           | 43 (38)    | 18 (34)    | 16 (43)     | 7 (46)      | -           |
| Mecan River                  | STH 21           | 8.9 (2.2 - 16.0)         | 2298 (95)        | 770                          | 1185 (97)  | 683 (95)   | 259 (98)    | 32 (71)     | 3 (66)      |
| Mill Creek                   | Winkle Road      | 9.2 (6.9 - 11.2)         | 17 (17)          | -                            | 17 (23)    | 8 (22)     | 8 (33)      | -           | -           |
| North Branch Embarrass River | CTH D            | 7.1 (2.4 - 14.9)         | 55 (34)          | 8                            | 40 (37)    | 13 (28)    | 8 (33)      | 3 (39)      | -           |
| Peterson Creek               | Jensen Road      | 8.3 (2.4 - 21.8)         | 947 (86)         | 97                           | 707 (91)   | 416 (91)   | 256 (93)    | 167 (97)    | 53 (99)     |
| Pine River                   | CTH A            | 9.4 (3.2 - 18.4)         | 378 (69)         | 24                           | 333 (80)   | 230 (82)   | 161 (86)    | 87 (91)     | 16 (88)     |
| Pine River                   | 19th Lane        | 7.6 (2.3 - 16.6)         | 1624 (93)        | 346                          | 1046 (96)  | 768 (96)   | 381 (97)    | 89 (91)     | 5 (69)      |
| Radley Creek                 | STH 22           | 7.1 (2.3 - 16.8)         | 1383 (91)        | 137                          | 823 (93)   | 512 (92)   | 169 (87)    | 50 (82)     | 13 (86)     |
| Waupaca River                | CTH Q            | 8.6 (2.1 - 17.8)         | 540 (76)         | 66                           | 406 (83)   | 204 (80)   | 147 (84)    | 104 (93)    | 19 (91)     |
| White River                  | Cottonville Lane | 10.4 (5.7 - 20.0)        | 422 (72)         | -                            | 362 (82)   | 272 (84)   | 164 (86)    | 98 (92)     | 24 (94)     |
| Willow Creek                 | Blackhawk Road   | 7.7 (2.8 - 16.2)         | 807 (83)         | 277                          | 427 (84)   | 195 (79)   | 95 (77)     | 24 (66)     | 5 (69)      |

#### ROTATIONAL SITES CATCH METRICS - PER MILE

| Stream Name                    | Site Location       | Average Length and Range (inches) | Total and (PCTL) | Young of Year (YOY) per mile | >6" (PCTL) | >8" (PCTL) | >10" (PCTL) | >12" (PCTL) | >15" (PCTL) |
|--------------------------------|---------------------|-----------------------------------|------------------|------------------------------|------------|------------|-------------|-------------|-------------|
| Basteen Creek                  | Spring Street       | 6.2                               | 16 (15)          | -                            | 16 (20)    | -          | -           | -           | -           |
| Bird Creek                     | STH 21              | 7.9 (3.2 - 14.8)                  | 1559 (92)        | 13                           | 1171 (97)  | 665 (95)   | 184 (88)    | 33 (73)     | -           |
| Davies Creek                   | CTH K               | 5.2 (1.0 - 11.8)                  | 1773 (94)        | 77                           | 307 (78)   | 80 (60)    | 27 (53)     | -           | -           |
| Humphrey Creek                 | CTH K               | 7.2 (2.9 - 12.8)                  | 500 (75)         | 200                          | 320 (79)   | 200 (79)   | 60 (68)     | 10 (50)     | -           |
| Jones Creek                    | STH 22              | 2.8 (1.0 - 5.2)                   | 1318 (91)        | 1286                         | -          | -          | -           | -           | -           |
| Kaminski Creek                 | CTH A - Downstream  | 4.7 (2.2 - 8.2)                   | 38 (28)          | 19                           | 10 (15)    | 10 (25)    | -           | -           | -           |
| Mecan River                    | Dixie Avenue        | 9.2 (5.2 - 13.8)                  | 178 (54)         | -                            | 172 (66)   | 109 (67)   | 52 (65)     | 35 (58)     | -           |
| North Branch Embarrass River   | Schoolhouse Road    | 12.3 (9.1 - 15.0)                 | 16 (15)          | -                            | 16 (20)    | 16 (31)    | 11 (38)     | 11 (52)     | 5           |
| North Branch Embarrass River   | Mountain Bay Trail  | 12.7 (2.7 - 21.5)                 | 53 (33)          | 6                            | 47 (40)    | 47 (50)    | 29 (55)     | 29 (69)     | 18          |
| North Branch Embarrass River   | Butternut Road      | 15.6 (11.0 - 20.2)                | 47 (31)          | -                            | 47 (40)    | 47 (50)    | 47 (62)     | 41 (77)     | 29          |
| North Branch Embarrass River   | CTH D - School      | 3.6 (2.2 - 7.6)                   | 55 (34)          | 45                           | 10 (15)    | -          | -           | -           | -           |
| North Branch Embarrass River   | Ranger Station      | 8.5 (2.9 - 24.1)                  | 239 (60)         | 17                           | 167 (65)   | 106 (66)   | 56 (66)     | 39 (76)     | 22          |
| North Branch Embarrass River   | Old CTH D           | 6.9 (2.3 - 14.8)                  | 245 (60)         | 27                           | 192 (69)   | 53 (53)    | 13 (40)     | 13 (56)     | -           |
| North Branch Embarrass River   | Maple Rd.           | 10.0                              | 7 (7)            | -                            | 7 (11)     | 7 (20)     | 7 (32)      | -           | -           |
| North Branch Little Wolf River | CTH E               | 10.5                              | 13 (13)          | -                            | 13 (18)    | 13 (28)    | 13 (40)     | -           | -           |
| North Branch Little Wolf River | CTH K               | 9.0                               | 14 (13)          | -                            | 14 (19)    | 14 (29)    | -           | -           | -           |
| Pine River                     | CTH A - STH 22      | 7.3 (2.3 - 14.0)                  | 1802 (93)        | 281                          | 1448 (98)  | 792 (97)   | 208 (90)    | 21 (64)     | -           |
| Pine River                     | CTH A               | 8.8 (2.6 - 19.6)                  | 611 (79)         | 87                           | 500 (86)   | 325 (87)   | 218 (91)    | 91 (91)     | 16          |
| Pine River                     | Aniwa Road Habitat  | 8.1 (2.8 - 15.4)                  | 1101 (88)        | 124                          | 876 (94)   | 651 (95)   | 320 (95)    | 65 (86)     | 6           |
| Pine River                     | Portage Street      | 10.2 (2.5 - 19.4)                 | 452 (73)         | 29                           | 411 (83)   | 311 (86)   | 228 (91)    | 141 (96)    | 58          |
| Pine River                     | 28th Court          | 8.9 (2.5 - 22.0)                  | 75 (40)          | 26                           | 40 (37)    | 35 (46)    | 22 (50)     | 13 (56)     | 9           |
| Pine River                     | Aniwa Road          | 7.4 (2.1 - 16.8)                  | 1189 (88)        | 154                          | 891 (94)   | 542 (93)   | 239 (91)    | 65 (86)     | 5           |
| Pine River                     | Apache Road         | 8.3 (2.7 - 15.8)                  | 746 (82)         | 37                           | 672 (91)   | 482 (92)   | 180 (88)    | 64 (86)     | 5           |
| Pine River                     | Below Saxeville Dam | 8.6 (2.1 - 20.8)                  | 1041 (87)        | 191                          | 825 (93)   | 622 (95)   | 443 (97)    | 150 (96)    | 24          |



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### Brook Trout

- Brook trout (*Salvelinus fontinalis*) is the only stream dwelling trout native to Wisconsin, found predominately in central and northern Wisconsin. Brook trout reside in cold headwater streams and spawn by building a nest called a redd in the fall of the year around November. Barge and backpack shockers are used for sampling in streams, thus data reported in this summary are from both gear types.

#### TREND SITES CATCH METRICS - PER MILE

| Stream Name                  | Site Location           | Average Length and Range (inches) | Total and (PCTL) | Young of Year (YOY) per mile | >5" (PCTL) | >8" (PCTL) | >10" (PCTL) | >12" (PCTL) |
|------------------------------|-------------------------|-----------------------------------|------------------|------------------------------|------------|------------|-------------|-------------|
| Little Wolf River            | Ness Road               | 5.3 (2.2 - 10.0)                  | 329 (61)         | 279                          | 323 (81)   | 54 (76)    | 5 (65)      | -           |
| Mill Creek                   | Winkle Road             | 5.0 (2.1 - 10.6)                  | 1173 (88)        | 494                          | 650 (92)   | 135 (91)   | 4 (64)      | -           |
| North Branch Embarrass River | CTH D - County Property | 5.0 (1.5 - 9.5)                   | 1443 (92)        | 454                          | 921 (96)   | 40(68)     | -           | -           |
| Peterson Creek               | Jensen Road             | 6.2 (5.4 - 6.9)                   | 35 (21)          | -                            | 35 (32)    | -          | -           | -           |

#### ROTATIONAL SITES CATCH METRICS - PER MILE

| Stream Name                  | Site Location       | Average Length and Range (inches) | Total and (PCTL) | Young of Year (YOY) per mile | >5" (PCTL) | >8" (PCTL) | >10" (PCTL) | >12" (PCTL) |
|------------------------------|---------------------|-----------------------------------|------------------|------------------------------|------------|------------|-------------|-------------|
| Basteen Creek                | Spring Street       | 6.6 (2.7 - 9.4)                   | 254 (56)         | 32                           | 206 (69)   | 79 (82)    | -           | -           |
| Davies Creek                 | CTH K               | 6.2 (1.8 - 8.8)                   | 147 (44)         | 27                           | 120 (56)   | 27 (59)    | -           | -           |
| Humphrey Creek               | CTH K               | 5.0 (2.7 - 8.3)                   | 150 (44)         | 70                           | 80 (46)    | 10 (38)    | -           | -           |
| Jones Creek                  | STH 22              | 2.8                               | 16 (11)          | 16                           | -          | -          | -           | -           |
| Kaminski Creek               | CTH A Downstream    | 5.1 (2.2 - 8.5)                   | 288 (59)         | 64                           | 192 (67)   | 16 (47)    | -           | -           |
| Kaminski Creek               | CTH A Upstream      | 3.9 (2.4 - 6.4)                   | 70 (31)          | 47                           | 23 (24)    | -          | -           | -           |
| North Branch Embarrass River | Schoolhouse Road    | 7.3 (3.5 - 9.3)                   | 49 (26)          | 5                            | 44 (35)    | 11 (40)    | -           | -           |
| North Branch Embarrass River | Mountain Bay Trail  | 5.3 (2.2 - 11.6)                  | 228 (53)         | 99                           | 123 (56)   | 35 (66)    | 6 (69)      | -           |
| North Branch Embarrass River | Butternut Road      | 8.1 (7.0 - 10.4)                  | 29 (18)          | -                            | 29 (27)    | 12 (42)    | 6 (69)      | -           |
| North Branch Embarrass River | CTH D - School      | 7.0 (2.9 - 8.7)                   | 106 (38)         | 5                            | 101 (52)   | 15 (45)    | -           | -           |
| North Branch Embarrass River | Ranger Station      | 6.4 (3.4 - 9.1)                   | 322 (61)         | 6                            | 294 (78)   | 39 (68)    | -           | -           |
| North Branch Embarrass River | Old CTH D           | 4.6 (2.1 - 8.8)                   | 1298 (90)        | 583                          | 636 (92)   | 53 (75)    | -           | -           |
| North Branch Embarrass River | Maple Road          | 6.4 (2.4 - 9.8)                   | 728 (80)         | 66                           | 647 (92)   | 37 (67)    | -           | -           |
| North Branch Embarrass River | River Road          | 4.5 (1.9 - 8.4)                   | 959 (86)         | 529                          | 398 (85)   | 8 (35)     | -           | -           |
| North Branch Embarrass River | Lake Church Road    | 3.4 (2.2 - 5.4)                   | 270 (57)         | 191                          | 48 (36)    | -          | -           | -           |
| North Branch Little Wolf     | CTH K               | 4.6 (2.7 - 6.9)                   | 85 (34)          | 42                           | 42 (35)    | -          | -           | -           |
| North Branch Little Wolf     | Smith Road          | 7.7 (2.6 - 15.3)                  | 794 (82)         | 48                           | 714 (93)   | 349 (98)   | 175 (99)    | 48 (99)     |
| North Branch Little Wolf     | CTH E               | 6.6 (2.3 - 10.2)                  | 213 (52)         | 25                           | 175 (65)   | 63 (78)    | 13 (79)     | -           |
| North Branch Little Wolf     | Knutson Lake Road   | 4.6 (2.3 - 7.2)                   | 64 (29)          | 32                           | 32 (29)    | -          | -           | -           |
| North Branch Pigeon River    | Highway 45          | 6.4 (5.7 - 7.9)                   | 127 (41)         | -                            | 127 (57)   | -          | -           | -           |
| North Branch Pigeon River    | Doty Creek Fishery  | 5.2 (2.1 - 8.2)                   | 385 (65)         | 64                           | 295 (78)   | 13 (43)    | -           | -           |
| North Branch Pigeon River    | CTH SS - Downstream | 5.0 (2.3 - 7.9)                   | 288 (59)         | 48                           | 208 (69)   | -          | -           | -           |
| North Branch Pigeon River    | CTH SS - Upstream   | 5.2 (1.7 - 8.9)                   | 320 (61)         | 96                           | 208 (69)   | 16 (47)    | -           | -           |
| North Fork Blake Creek       | CTH E - Downstream  | 8.0 (5.5 - 9.7)                   | 111 (38)         | -                            | 111 (54)   | 79 (83)    | -           | -           |
| North Fork Blake Creek       | CTH E - Upstream    | 5.8 (2.4 - 8.8)                   | 127 (41)         | 32                           | 95 (50)    | 16 (47)    | -           | -           |
| Pine River                   | CTH A to STH 22     | 5.6 (5.3 - 6.0)                   | 42 (23)          | -                            | 42 (32)    | -          | -           | -           |
| Pine River                   | Aniwa Road Habitat  | 6.6 (5.7 - 7.5)                   | 36 (21)          | -                            | 36 (33)    | -          | -           | -           |
| Pine River                   | Below Saxeville Dam | 8.8                               | 4 (1)            | -                            | 4 (5)      | 4 (30th)   | -           | -           |
| West Branch Shioc River      | Behind School       | 4.9 (2.1 - 10.2)                  | 444 (68)         | 254                          | 191 (67)   | 48 (73)    | 16 (82)     | -           |
| West Branch Shioc River      | Porter Road         | 6.8 (2.4 - 9.5)                   | 1048 (87)        | 238                          | 810 (95)   | 318 (98)   | -           | -           |
| West Branch Shioc River      | STH 29              | 6.4 (2.2 - 12.6)                  | 1814 (95)        | 529                          | 1284 (98)  | 569 (99)   | 108 (99)    | 10 (95)     |