



# WISCONSIN DEPARTMENT OF NATURAL RESOURCES

## 2024 Trout Surveys Report Oshkosh Work Unit , Marquette, Shawano, Waupaca, and Waushara Counties

### Introduction And Objectives

In 2024, 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 2024. Individual summary reports are also available for each stream surveyed. Contact the appropriate county fisheries biologist to request them.

### DNR Contact

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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 biannually in Shawano, Marquette, Waupaca, and Waushara Counties. While ROTATION sites are sampled on a rotational frequency by watershed and will vary by each field office
- 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 Brandon Rotolo, Kyle Kossel, Bishop Peterson, Max Scodius, Scott Bunde, Trevor Hoheisel, Tom Meronek, Eric Evensen, Katherine Rynish and Elliot Hoffman, who were the primary crew members responsible for daily stream survey work and data entry/analysis. There were also other staff, too numerous to list, who helped to complete these surveys throughout the summer. Their assistance was greatly appreciated.

This past survey season the Upper Fox and Wolf River work unit was able to survey 9.55 miles of stream. 2,713 brook trout, 4,020 brown trout and 86 rainbow trout were handled, along with many other species of fish which were used to calculate the IBI scores on the various stretches of stream.



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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
Bird Creek	Waushara	Special Study	Highway 21	8/17/2024	52	800	44.06858, -89.30278 44.06959, -89.30384	Towed Barge Shocker	3
Chaffee Creek	Marquette	Rotation	11th Lane	7/15/2024	60	591	43.95570, -89.39058 43.95587, -89.39211	Towed Barge Shocker	3
Chaffee Creek	Marquette	Rotation	Highway 39	7/15/2024	51	2,300	43.97982, -89.48930 43.98152, -89.49421	Towed Barge Shocker	3
Chaffee Creek	Marquette	Rotation	Dakota Road	7/15/2024	58	518	43.96960, -89.42469 43.97055, -89.42484	Towed Barge Shocker	3
Chaffee Creek	Waushara	Rotation	CTH CH	7/25/2024	54	350	43.98665, -89.52190 43.98672, -89.52286	Backpack Shocker	1
Dent Creek	Shawano	Rotation	Witt-Morr Townline Road	7/25/2024	60	344	44.80825, -89.10118 44.81169, -89.11054	Backpack Shocker	1
Dent Creek	Shawano	Rotation	Fink Road	7/15/2024	59	344	44.80816, -89.04330 44.80859, -89.04505	Backpack Shocker	1
Dent Creek	Shawano	Rotation	CTH J	7/15/2024	62	403	44.79513, -89.02346 44.78822, -89.03243	Backpack Shocker	1
Dent Creek	Shawano	Rotation	Willow Road	8/13/2024	55	344	44.81097, -89.10988 44.81173, -89.11040	Backpack Shocker	1
Elmhurst Creek	Shawano	Rotation	CTH Z	7/16/2024	61	350	45.01229, -89.14890 45.01297, -89.14881	Towed Barge Shocker	3
Elmhurst Creek	Shawano	Rotation	Sugarbush Road	7/16/2024	61	564	45.00238, -89.14318 45.00332, -89.14416	Towed Barge Shocker	3
Elmhurst Creek	Shawano	Rotation	Tamarack Road	7/10/2024	60	425	45.02299, -89.34078 45.02367, -89.16814	Backpack Shocker	1
Little Pine Creek	Waushara	Rotation	Czech Court	7/17/2024	54	450	43.99347, -89.34078 43.99412, -89.34045	Towed Barge Shocker	3
Little Pine Creek	Waushara	Rotation	Cypress Avenue	7/17/2024	52	431	44.01161, -89.34407 44.01241, -89.34465	Towed Barge Shocker	3
Logemanns Creek	Shawano	Rotation	Weasel Dam Road	8/9/2024	60	344	44.77498, -88.94507 44.77565, -88.94768	Backpack Shocker	1
Logemanns Creek	Shawano	Rotation	Townline Road	8/9/2024	60	344	44.79823, -88.98226 44.79793, -88.98415	Backpack Shocker	1
Logemanns Creek	Shawano	Rotation	Leopolis Road	8/13/2024	61	344	44.76853, -88.92432 44.76939, -88.92408	Backpack Shocker	1
Loon Creek	Shawano	Special Study	Woods Road	7/30/2024	63	450	44.84635, -88.52416 44.84787, -88.52541	Towed Barge Shocker	3
Mecan River	Waushara	Rotation	CTH GG	7/10/2024	66	908	44.04965, -89.46146 44.05102, -89.46416	Towed Barge Shocker	3
Mecan River	Waushara	Rotation	9th Avenue	7/10/2024	59	750	44.04345, -89.44587 44.04533, -89.44617	Towed Barge Shocker	3
Mecan River	Waushara	Rotation	9th Avenue Habitat Work	7/10/2024	64	1,135	44.03180, -89.44550 44.03421, -89.44370	Towed Barge Shocker	3
Mecan River	Waushara	Trend	Highway 21 - Downstream	8/14/2024	56	2,000	44.0259, -89.4407 44.0295, -89.4438	Towed Barge Shocker	3
Mecan River	Waushara	Rotation	Highway 21 - Upstream	7/10/2024	64	808	44.02992, -89.44411 44.03099, -89.44790	Towed Barge Shocker	3
Mecan River	Waushara	Rotation	CTH B	7/16/2024	60	800	44.02563, -89.43395 44.02554, -89.43544	Towed Barge Shocker	3
Mecan River	Waushara	Rotation	Cumberland Road	7/16/2024	60	900	44.02227, -89.42671 44.02368, -89.42536	Towed Barge Shocker	3
Mecan River	Waushara	Rotation	11th Road	7/16/2024	65	1,118	44.00735, -89.39161 44.00998, -89.39257	Towed Barge Shocker	3
Mecan River	Waushara	Rotation	CTH Y	8/14/2024	59	1,165	43.98861, -89.35871 43.99000, -89.36080	Towed Barge Shocker	3
Middle Branch Embarrass River	Shawano	Rotation	Elm Road	7/16/2024	60	711	45.01617, -89.12802 45.01711, -89.12617	Towed Barge Shocker	3
Middle Branch Embarrass River	Shawano	Rotation	CTH Z	7/16/2024	60	476	45.06790, -89.12805 45.00988, -89.12897	Towed Barge Shocker	3
Middle Branch Embarrass River	Shawano	Rotation	Cherry Road	7/17/2024	59	928	44.97432, -89.12370 44.97631, -89.12239	Towed Barge Shocker	3
Middle Branch Embarrass River	Shawano	Rotation	White Birch Road	7/29/2024	61	935	44.96514, -89.13824 44.96684, -89.13574	Towed Barge Shocker	3
Middle Branch Embarrass River	Shawano	Rotation	Church Road	7/29/2024	61	1,046	44.94334, -89.14608 44.94566, -89.14597	Towed Barge Shocker	3
Middle Branch Embarrass River	Shawano	Rotation	CTH N	7/22/2024	63	1,320	44.92501, -89.15231 44.92797, -89.15482	Towed Barge Shocker	3
Middle Branch Embarrass River	Shawano	Rotation	Riverview Road	7/29/2024	64	1,092	44.90401, -89.14356 44.90615, -89.14151	Towed Barge Shocker	3



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Middle Branch Embarrass River	Shawano	Rotation	Witt-Morr Townline Road	7/22/2024	60	1,424	44.85604, -89.16460 44.85789, -89.16274	Towed Barge Shocker	3
Middle Branch Embarrass River	Shawano	Rotation	Eland Road	7/22/2024	60	1,286	44.87083, -89.16906 44.87262, -89.16656	Towed Barge Shocker	3
Middle Branch Embarrass River	Shawano	Rotation	CTH Q	8/23/2024	67	1,312	44.82980, -89.10298 44.82917, -89.10713	Towed Barge Shocker	3
Middle Branch Embarrass River	Shawano	Rotation	Robin Road	8/23/2024	64	1,312	44.83741, -89.14344 44.83757, -89.14816	Towed Barge Shocker	3
Middle Branch Embarrass River	Shawano	Rotation	Seneca Road	9/5/2024	60	1,312	44.78120, -88.98200 44.78498, -88.98367	Towed Barge Shocker	3
Middle Branch Embarrass River	Shawano	Rotation	Weasel Dam Road	9/18/2024	63	1,312	44.76352, -88.94553 44.76568, -88.94893	Towed Barge Shocker	3
North Branch Embarrass River	Shawano	Special Study	Old CTH D	8/21/2024	57	797	44.88480, -89.01649 44.88611, -89.01517	Towed Barge Shocker	3
North Branch Embarrass River	Shawano	Special Study	Bowler Ranger Station	8/21/2024	56	952	44.86402, -88.99098 44.86414, -88.99375	Towed Barge Shocker	3
North Branch Embarrass River	Shawano	Special Study	CTH D - South	8/20/2024	58	1,051	44.85316, -88.97990 44.85407, -88.98260	Towed Barge Shocker	3
North Branch Embarrass River	Shawano	Special Study	Schoolhouse Road East	8/21/2024	56	971	44.85594, -88.94673 44.85698, -88.94631	Towed Barge Shocker	3
North Branch Embarrass River	Shawano	Special Study	Mountain Bay Trail	8/20/2024	60	905	44.86588, -88.95062 44.86787, -88.95143	Towed Barge Shocker	3
North Branch Embarrass River	Shawano	Special Study	Private Property near Tilleda	8/20/2024	58	750	44.83646, -88.93423 44.83820, -88.93654	Towed Barge Shocker	3
North Branch Embarrass River	Shawano	Special Study	Butternut Road	8/20/2024	59	904	44.86219, -88.97090 44.86053, -88.97074	Towed Barge Shocker	3
North Branch Wedde Creek	Waushara	Rotation	10th Court	7/17/2024	63	569	44.99513, -89.42072 43.99604, -89.42223	Towed Barge Shocker	3
North Branch Wedde Creek	Marquette	Rotation	Dakota Avenue	7/17/2024	62	613	43.98221, -89.40672 43.98333, -89.40547	Towed Barge Shocker	3
Packard Creek	Shawano	Rotation	Bluebird Road	7/17/2024	59	396	44.90094, -89.17396 44.90136, -89.17303	Towed Barge Shocker	3
Packard Creek	Shawano	Rotation	CTH N	7/17/2024	58	438	44.92868, -89.19160 44.92966, -89.19183	Towed Barge Shocker	3
Packard Creek	Shawano	Rotation	Oriole Road	7/17/2024	61	361	44.88510, -89.18543 44.88573, -89.18490	Towed Barge Shocker	3
Packard Creek	Shawano	Rotation	Eland Road	7/17/2024	62	682	44.87063, -89.17140 44.87146, -89.17348	Towed Barge Shocker	3
Schmudlack Creek	Waushara	Rotation	Cottonville Lane	7/25/2024	49	330	44.05484, -89.45305 44.05518, -89.45417	Backpack Shocker	1
Schmudlack Creek	Waushara	Rotation	Confluence w/ Mecan River	7/25/2024	49	330	44.04684, -89.44833 44.04478, -89.44788	Towed Barge Shocker	3
Simpson Creek	Shawano	Rotation	Church Road	7/31/2024	64	344	44.78066, -89.02181 44.78091, -89.02247	Backpack Shocker	1
Simpson Creek	Shawano	Rotation	Alberg Road	7/31/2024	64	330	44.78591, -89.03094 44.78663, -89.03084	Backpack Shocker	1
South Branch Wedde Creek	Waushara	Rotation	CTH JJ	7/18/2024	50	330	44.00259, -89.45597 44.00257, -89.45663	Towed Barge Shocker	3
South Branch Wedde Creek	Waushara	Rotation	CTH B	7/18/2024	53	900	43.99286, -89.43629 43.99388, -89.43850	Towed Barge Shocker	3
Unnamed Tributary - 312000	Shawano	Rotation	Birch Lane	6/26/2024	58	344	44.84087, -89.13777 44.84147, -89.13670	Backpack Shocker	1
Unnamed Tributary - 312700	Shawano	Rotation	Hemlock Road	8/29/2024	59	328	44.84155, -89.17529 44.84157, -89.17624	Backpack Shocker	1
Unnamed Tributary - 311900	Shawano	Rotation	Schoolhouse Road	7/18/2024	58	330	44.85590, -89.09023 44.85625, -89.09095	Backpack Shocker	1
Unnamed Tributary - 311900	Shawano	Rotation	Wilson Creek Lane	7/25/2024	56	344	44.84036, -89.09133 44.83987, -89.09146	Backpack Shocker	1
Unnamed Tributary - 313700	Shawano	Rotation	Sugarbush Road	7/16/2024	62	438	44.98065, -89.14324 44.98065, -89.14448	Backpack Shocker	1
Unnamed Tributary - 311700	Shawano	Rotation	River Road	7/25/2024	61	400	44.83423, -89.03363 44.83506, -89.03216	Backpack Shocker	1
Rosebrook Creek	Shawano	Rotation	CTH M	7/30/2024	64	330	44.76654, -88.64524 44.76744, -88.64607	Backpack Shocker	1
Rosebrook Creek	Shawano	Rotation	Rosebrook Road	7/22/2024	62	477	44.76681, -88.62930 44.76596, -88.63031	Backpack Shocker	1
Wedde Creek	Marquette	Rotation	Deerborn Avenue	7/18/2024	54	550	43.96636, -89.37342 43.96610, -89.37242	Towed Barge Shocker	3

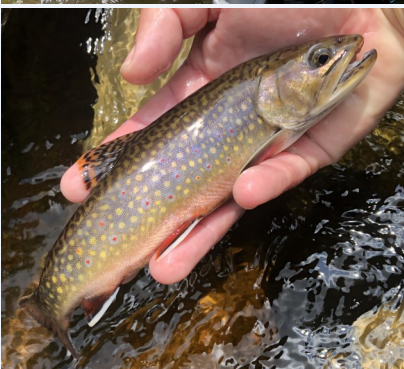


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### SURVEY INFORMATION

Stream Name	County	Survey Type	Site Location	Survey Dates	Water Temperature (°F)	Station Length (feet)	GPS (Start/Finish)	Gear	Dippers
Wedde Creek	Marquette	Rotation	CTH Y	7/17/2024	59	446	43.95337, -89.36538 43.95342, -89.36706	Towed Barge Shocker	3
Wilson Creek	Shawano	Rotation	Witt Morr Townline Road	7/18/2024	55	330	44.85552, -89.11639 44.85583, -89.11605	Backpack Shocker	1
Wilson Creek	Shawano	Rotation	Wilson Creek Lane	6/26/2024	61	400	44.84054, -89.09329 44.84037, -89.09313	Backpack Shocker	1



All Photos were taken by DNR Staff



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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.

#### 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)
Bird Creek	Highway 21	8.2 (2.6 - 15.2)	941 (86)	7	770 (92)	434 (91)	112 (80)	40 (77)	7 (75)
Chaffee Creek	11th Lane	9.3 (5.7 - 14.1)	570 (77)	-	561 (88)	430 (91)	219 (91)	44 (79)	-
Chaffee Creek	Highway 39	7.1 (2.1 - 14.6)	1473 (91)	333	734 (82)	376 (90)	147 (84)	21 (64)	-
Chaffee Creek	Dakota Road	9.4 (5.9 - 15.5)	264 (62)	-	235 (74)	225 (81)	61 (68)	20 (63)	10 (50)
Chaffee Creek	CTH CH	5.3 (2.5 - 11.0)	515 (76)	258	121 (59)	61 (55)	30 (55)	-	-
Little Pine Creek	Czech Court	9.2 (5.7 - 14.3)	247 (61)	-	235 (74)	129 (70)	118 (81)	24 (66)	-
Little Pine Creek	Cypress Avenue	8.2 (5.9 - 12.4)	146 (50)	-	122 (59)	61 (55)	37 (59)	12 (54)	-
Mecan River	9th Avenue	7.8 (2.4 - 14.6)	2063 (94)	1021	979 (95)	451 (91)	247 (92)	70 (87)	-
Mecan River	9th Avenue Habitat	8.9 (2.5 - 17.6)	856 (85)	200	651 (90)	437 (91)	293 (94)	130 (95)	28 (95)
Mecan River	11th Road	9.3 (3.1 - 16.7)	835 (84)	52	736 (91)	500 (92)	316 (95)	132 (95)	9 (79)
Mecan River	CTH Y	7.5 (2.2 - 14.6)	1081 (88)	136	801 (92)	529 (93)	249 (92)	41 (77)	-
Mecan River	CTH GG	4.8 (2.6 - 7.3)	35 (27)	23	12 (17)	-	-	-	-
Mecan River	Cumberland Road	7.5 (2.5 - 15.3)	1058 (87)	259	694 (91)	412 (90)	153 (85)	29 (69)	6 (73)
Mecan River	CTH B	6.6 (2.0 - 13.4)	2118 (95)	1158	757 (92)	395 (90)	184 (88)	33 (73)	-
Mecan River	Highway 21 - Trend	7.9 (2.2 - 16.7)	2367 (95)	1074	1058 (96)	599 (94)	261 (93)	77 (89)	13 (86)
Mecan River	Highway 21	7.6 (2.5 - 13.6)	1255 (90)	353	856 (93)	497 (92)	222 (91)	52 (83)	-
Middle Branch Embarrass River	Robin Road	11.5	4 (2)	-	4 (6)	4 (15)	4 (27)	-	-
Middle Branch Embarrass River	Weasel Dam Road	13.8	4 (2)	-	4 (6)	4 (15)	4 (27)	4 (40)	-
North Branch Embarrass River	Schoolhouse Road	14.0 (7.0 - 19.5)	44 (30)	-	44 (39)	33 (45)	33 (57)	33 (73)	22 (93)
North Branch Embarrass River	Private Property	7.9 (2.2 - 18.9)	134 (48)	78	56 (44)	42 (49)	42 (60)	21 (64)	14 (87)
North Branch Embarrass River	Bowler Ranger Station	8.9 (2.7 - 20.2)	278 (63)	22	217 (72)	89 (63)	89 (76)	56 (83)	17 (90)
North Branch Embarrass River	Butternut Road	12.7 (7.1 - 19.5)	76 (40)	-	76 (50)	59 (55)	57 (67)	41 (77)	18 (91)
North Branch Embarrass River	Mountain Bay Trail	10.7 (3.0 - 21.4)	94 (43)	6	88 (54)	70 (58)	41 (60)	29 (69)	12 (85)
North Branch Embarrass River	Old CTH D	8.5 (2.9 - 18.0)	477 (74)	20	437 (84)	152 (73)	66 (70)	33 (73)	13 (86)
North Branch Embarrass River	CTH D 4-H	7.4 (2.5 - 17.4)	186 (54)	60	106 (70)	50 (52)	35 (58)	20 (63)	10 (81)
North Branch Wedde Creek	10th Court	7.4 (2.7 - 13.2)	65 (37)	19	37 (37)	28 (41)	19 (48)	9 (49)	-
North Branch Wedde Creek	Dakota Avenue	5.8 (5.5 - 6.1)	26 (22)	-	9 (13)	-	-	-	-
Schmudlack Creek	9th Avenue	5.3 (2.5 - 6.9)	191 (55)	48	95 (54)	-	-	-	-
Schmudlack Creek	Cottonville Lane	7.7 (5.3 - 12.0)	222 (59)	-	191 (69)	79 (60)	32 (56)	16 (58)	-
South Branch Wedde Creek	CTH JJ	5.8 (2.0 - 11.8)	1222 (89)	381	349 (81)	159 (74)	48 (63)	-	-
South Branch Wedde Creek	CTH B	7.1 (2.9 - 14.0)	1000 (87)	47	571 (88)	271 (84)	77 (73)	6 (44)	-
Unnamed Tributary - 311900	Wilson Creek Lane	2.8 (2.4 - 3.3)	31 (42)	31	-	-	-	-	-
Wedde Creek	CTH Y	9.6 (5.5 - 14.8)	357 (68)	-	345 (81)	238 (82)	131 (83)	60 (85)	-
Wedde Creek	Deerborn Avenue	8.8 (3.0 - 18.8)	519 (76)	10	481 (86)	279 (85)	115 (80)	39 (76)	10 (81)
Wilson Creek	Wilson Creek Lane	5.7	13 (13)	-	-	-	-	-	-



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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.

#### 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)
Dent Creek	CTH J	5.2 (2.0 - 8.9)	434 (68)	145	263 (75)	13 (43)	-	-
Dent Creek	Fink Road	6.1 (1.7 - 10.2)	1462 (92)	123	1139 (97)	215 (96)	31 (92)	-
Dent Creek	Willow Road	5.1 (2.1 - 9.1)	646 (77)	323	323 (81)	77 (83)	-	-
Dent Creek	Witt-Morr Townline	5.4 (2.1 - 8.3)	723 (80)	154	492 (89)	15 (45)	-	-
Elmhurst Creek	CTH Z	6.5 (1.5 - 10.0)	1076 (87)	30	667 (93)	197 (95)	30 (91)	-
Elmhurst Creek	Sugarbush Road	5.3 (2.1 - 9.2)	673 (78)	131	430 (86)	65 (80)	-	-
Elmhurst Creek	Tamarack Road	4.2 (1.5 - 7.9)	375 (65)	188	163 (64)	-	-	-
Little Pine Creek	Czech Court	7.5 (6.3 - 9.1)	94 (36)	-	94 (50)	12 (42)	-	-
Little Pine Creek	Cypress Avenue	6.3 (2.8 - 8.6)	464 (70)	24	439 (86)	24 (57)	-	-
Logemanns Creek	Leopolis Road	7.0 (6.2 - 7.6)	46 (25)	-	46 (36)	-	-	-
Mecan River	9th Avenue	6.2 (5.9 - 6.4)	14 (9)	-	14 (16)	-	-	-
Mecan River	11th Road	6.7	5 (2)	-	5 (6)	-	-	-
Mecan River	CTH Y	8.0 (6.8 - 9.6)	14 (9)	-	14 (16)	5 (31)	-	-
Mecan River	Highway 21 - Trend	7.7 (5.5 - 9.8)	5 (2)	-	5 (6)	3 (29)	-	-
Middle Branch Embarrass River	Eland Road	7.8 (3.1 - 10.8)	279 (58)	8	271 (76)	107 (88)	25 (89)	-
Middle Branch Embarrass River	Cherry Road	6.2 (2.3 - 11.2)	949 (85)	80	784 (95)	153 (93)	6 (69)	-
Middle Branch Embarrass River	Church Road	7.5 (2.7 - 12.5)	581 (75)	35	540 (90)	217 (96)	51 (96)	10 (95)
Middle Branch Embarrass River	Elm Road	5.8 (1.9 - 10.1)	1170 (88)	148	357 (83)	82 (84)	7 (70)	-
Middle Branch Embarrass River	CTH Z	6.1 (1.8 - 12.0)	1233 (89)	156	844 (95)	144 (92)	33 (93)	11 (95)
Middle Branch Embarrass River	Riverview Road	6.6 (2.3 - 11.4)	556 (74)	87	459 (88)	150 (92)	19 (86)	-
Middle Branch Embarrass River	Robin Road	7.3 (5.0 - 10.1)	40 (23)	-	40 (34)	16 (47)	4 (64)	-
Middle Branch Embarrass River	White Birch Road	6.7 (2.4 - 11.1)	1102 (88)	96	989 (96)	333 (98)	34 (93)	-
Middle Branch Embarrass River	Witt-Morr Townline	6.7 (2.8 - 11.6)	248 (55)	30	219 (71)	70 (81)	4 (64)	-
Middle Branch Embarrass River	CTH N	7.1 (2.2 - 11.1)	476 (70)	88	388 (84)	132 (91)	20 (86)	-
Middle Branch Embarrass River	CTH Q	6.8	4 (1)	-	4 (1)	-	-	-
North Branch Embarrass River	Schoolhouse Road	6.3 (3.4 - 8.3)	49 (26)	5	38 (33)	16 (47)	-	-
North Branch Embarrass River	Private Property	8.2 (4.0 - 11.4)	183 (48)	-	176 (65)	78 (83)	49 (96)	-
North Branch Embarrass River	Bowler Ranger Station	6.6 (2.8 - 10.0)	356 (63)	28	311 (80)	83 (84)	6 (69)	-
North Branch Embarrass River	Butternut Road	7.7 (6.6 - 9.5)	47 (25)	-	47 (36)	23 (56)	-	-
North Branch Embarrass River	Mountain Bay Trail	6.1 (2.4 - 11.6)	164 (46)	64	94 (50)	29 (60)	18 (86)	-
North Branch Embarrass River	Old CTH D	6.2 (2.1 - 10.2)	1636 (93)	212	1411 (98)	152 (92)	27 (90)	-
North Branch Embarrass River	CTH D - 4H	6.6 (2.0 - 11.4)	256 (56)	45	206 (69)	60 (78)	15 (81)	-
North Branch Wedde Creek	10th Court	6.4 (3.7 - 8.4)	37 (22)	9	28 (27)	9 (37)	-	-
North Branch Wedde Creek	Dakota Avenue	8.2	9 (6)	9	9 (11)	-	-	-
Packard Creek	Bluebird Road	5.5 (2.1 - 10.3)	1133 (88)	307	747 (94)	133 (91)	13 (79)	-
Packard Creek	CTH N	5.3 (2.2 - 10.1)	434 (68)	229	205 (69)	84 (84)	12 (78)	-
Packard Creek	Eland Road	4.7 (2.0 - 9.3)	1101 (88)	527	550 (90)	54 (76)	-	-
Packard Creek	Oriole Road	5.8 (2.0 - 11.6)	1177 (88)	353	809 (95)	221 (96)	74 (98)	-



# WISCONSIN DEPARTMENT OF NATURAL RESOURCES

## 2024 Trout Surveys Report Oshkosh Work Unit , Marquette, Shawano, Waupaca, and Waushara Counties

### 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.

#### 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)
Schmudlack Creek	9th Avenue	4.0 (2.7 - 6.2)	238 (54)	175	64 (42)	-	-	-
Schmudlack Creek	Cottonville Lane	6.7 (4.8 - 8.2)	191 (49)	-	175 (65)	48 (73)	-	-
Simpson Creek	Alberg Lane	6.0 (2.4 - 8.9)	333 (61)	79	254 (74)	48 (73)	-	-
South Branch Wedde Creek	CTH B	6.1	6 (4)	-	6 (8)	-	-	-
Unnamed Tributary - 312000	Birch Lane	4.7 (1.4 - 8.5)	862 (84)	200	339 (82)	31 (62)	-	-

### Rainbow Trout

- Rainbow trout (*Salmo gairdneri*) has been introduced throughout Wisconsin, found primarily in stocking locations throughout the state to provide a fishing opportunity. However, there are a few streams in southern areas of the work unit where rainbow trout naturally reproduce. Barge and backpack shockers are used for sampling in streams, thus data reported in this summary are from both gear types.

#### 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)
Bird Creek	Highway 21	6.3	7	-	7	-	-	-
Chaffee Creek	11th Lane	10.2	9	-	9	9	9	-
Chaffee Creek	Highway 39	6.8 (1.7 - 10.8)	151	28	122	14	-	-
Middle Branch Embarrass River	Eland Road	9.4	4	-	4	4	-	-
Middle Branch Embarrass River	Robin Road	9.4 (8.5 - 10.4)	36	-	36	36	8	-
Middle Branch Embarrass River	Witt-Morr Townline	9.2 (8.9 - 9.5)	7	-	7	7	-	-
Middle Branch Embarrass River	CTH Q	9.8 (8.9 - 10.8)	20	-	20	20	8	-
North Branch Embarrass River	CTH D - 4H	13.3	5	-	5	5	5	5



All Photos were taken by DNR Staff