



WISCONSIN DEPARTMENT OF NATURAL RESOURCES

2024 Wadable Trout Streams Summary Report Pierce, St. Croix and Western Dunn Counties

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Introduction And Objectives

The Baldwin Wisconsin Department of Natural Resources (DNR) fisheries management staff conducted electrofishing surveys on wadable trout streams across Pierce, St. Croix and western Dunn counties. The primary objectives for these surveys were to characterize relative abundance, recruitment and size structure for all trout and overall ecological integrity through an index of biological integrity (IBI) based on all fish species captured in the sampled survey sites. The following report is a summary of trout metrics for all streams and stations surveyed in 2024. This data is used to monitor the overall health and status of trout populations. Please refer to the Guide to Wisconsin Trout Fishing Regulations for applicable size and bag limit restrictions for the stream you fish.

DNR Contact

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Regulations

Category: Green and Red
Daily Bag and Size Limit:
Please refer to the regulations booklet for the specific stream.



Survey Methods

- Trend survey stations are sampled annually
- Watershed rotation stations are sampled on a 10 year rotation
- Pre-and post-habitat improvement stations are sampled for a target of 5 years pre- and post-construction
- All stations are sampled using backpack or stream barge electrofishing units
- The distance surveyed for each station is 35 times the mean stream width at that location or a minimum of 330 feet (100 meters) if the stream is less than 3 meters wide
- Sampling generally occurs upstream of bridges or road crossings
- All trout are counted and measured and all other species are counted in order to calculate an Index of Biotic Integrity (IBI) score.
- Metrics used to describe trout populations include average length, catch per unit effort (CPUE) and length frequency distribution.

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.



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Stream Survey Locations and Station Information

Stream/Station Number	County	Location	Survey Date	Station Length (m)	Survey Purpose
Beaver Creek 5	St. Croix	Rustic Rd 4	7/15	201	Trend
Big River 2	Pierce	STH 35	7/17	222	Trend
Bolen Creek 1	Dunn	100 th St	7/11	182	Trend
Cady Creek 2	Pierce	50th St	7/23	204	Trend
Cady Creek 4	Pierce	850th Ave	7/23	214	Trend
Eau Galle River 10	Pierce	CTH P	7/30	341	Trend
Gilbert Creek 9	Dunn	STH 29	6/10	151	Trend/Rotation
North Branch Gilbert Creek T	Dunn	120th St	6/10	255	Trend/Rotation
Isabelle Creek 2	Pierce	CTH EE	7/15	567	Trend
Kinnickinnic River 6	Pierce	Glen Park	8/20	445	Trend
Kinnickinnic River 8	St. Croix	STH 65	8/20	216	Trend
Knights Creek 2	Dunn	STH 72	7/11	100	Trend
WB Knights Creek 1	Dunn	110th St	6/18	259	Trend
Lost Creek 1	Pierce	465th Ave	7/15	132	Trend
Parker Creek 2	St. Croix	Pleasant Ave	7/2	204	Trend
Pine Creek 2A	Pierce	CTH AA	7/17	199	Trend
Plum Creek 8	Pierce	Maple St.	7/9	260	Trend
Rocky Branch 1	Pierce	Confluence	7/10	119	Trend
Rush River 8	Pierce	450th Ave	7/31	375	Trend
Rush River 14	Pierce	690th Ave	7/31	457	Trend
Rush River 17	Pierce	STH 29	6/26	333	Trend
South Fork Hay River 13	Dunn	Thatcher Park	7/11	298	Trend
South Fork Hay River 19	Dunn	CTH K	7/11	266	Trend
South Fork Kinnickinnic River 3	Pierce	900th St	6/26	100	Trend
South Fork Willow River 4	St. Croix	STH 63	7/2	207	Trend
Tiffany Creek 2	Dunn	STH 79	7/11	289	Trend
Tiffany Creek 14	St. Croix	STH 128	6/25	100	Trend
Torgerson Creek 1	Dunn	1430th Ave	7/11	100	Trend
Trimbelle River 8	Pierce	CTH O	7/22	159	Trend
Trimbelle River 12	Pierce	870th St	7/22	303	Trend
Trimbelle River 15D	Pierce	CTH W	6/26	243	Trend
Willow River Race Branch 2	St. Croix	Trout Brook Rd	7/1	498	Trend
Wilson Creek 6	Dunn	STH 12	7/1	315	Trend/Rotation
Wilson Creek 11	Dunn	80th St	6/24	150	Trend/Rotation
Wilson Creek 8	Dunn	770th Ave	6/24	171	Post-Hab Eval/Rotation
Hay Creek 190th St	Dunn	190th St	7/18	100	Post-Hab Eval/Rotation
Cady Creek DS of P	Pierce	CTH P	7/23	190	Post-Hab Eval
North Branch Wilson 3	Dunn	790th Ave	7/3	144	Pre-Hab Eval
Plum Creek VH1	Pierce	145th Ave	7/9	204	Post-Hab Eval
Plum Creek VH2	Pierce	145th Ave	7/9	331	Post-Hab Eval
Plum Creek VH3	Pierce	145th Ave	7/9	241	Post-Hab Eval
Kinnickinnic River 6A	Pierce	Lake Louise	9/11	417	Pre-Hab Eval



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Stream	County	Location	Survey Date	Station Length (m)	Survey Purpose
Pine Creek 3	Pierce	20th Ave	7/17	100	Other investigation
North Branch Pine Creek 1	Pierce	272nd St	7/17	100	Other Investigation
Wilson Creek 2	Dunn	390th St	7/1	247	Rotation
Wilson Creek 4	Dunn	690th Ave	7/1	248	Rotation
Wilson Creek 9	Dunn	3rd Ave	6/24	122	Rotation
Wilson Creek 10	Dunn	CTH Q	6/24	196	Rotation
Wilson Creek 13	Dunn	STH 12	6/24	100	Rotation
Unnamed Creek 15-14 St. 1	Dunn	STH 12	6/19	100	Rotation
Unnamed Creek 15-14 St. BB	Dunn	CTH BB	6/20	100	Rotation
Annis Creek 1	Dunn	STH 12	6/20	210	Rotation
Annis Creek 2	Dunn	330th St	6/20	133	Rotation
Annis Creek 3	Dunn	770th Ave	6/20	100	Rotation
Annis Creek 4	Dunn	265th Ave	6/20	100	Rotation
Annis Creek 5	Dunn	280th St	6/19	100	Rotation
Annis Creek 7	Dunn	890th Ave	6/19	100	Rotation
Clack Creek 1	Dunn	730th Ave	7/8	100	Rotation
Clack Creek 2	Dunn	770th Ave	7/8	100	Rotation
Clack Creek 4	Dunn	STH 79	7/8	100	Rotation
Crosby Creek 1	Dunn	360th St	7/8	100	Rotation
Crosby Creek 2	Dunn	810th St	7/8	100	Rotation
Unnamed Creek 25-3 St. 1	Dunn	CTH K	6/20	100	Rotation
Unnamed Creek 23-1 St. 1	Dunn	280th St	6/20	100	Rotation
Unnamed Creek 14-9 St. 1	Dunn	CTH K	6/20	100	Rotation
Hay Creek 1	Dunn	250th St	7/18	100	Rotation
Hay Creek 3	Dunn	672nd Ave	7/1	100	Rotation
Hay Creek 4	Dunn	Park Rd	7/1	100	Rotation
Unnamed Creek 3-9 St. 1	Dunn	171st St	7/8	100	Rotation
Unnamed Creek 3-9 St. C	Dunn	Confluence	6/24	100	Rotation
North Branch Wilson 1	Dunn	770th Ave	7/3	140	Rotation
North Branch Wilson 2	Dunn	CTH O	7/3	100	Rotation
North Branch Wilson 6	Dunn	CTH Q	7/3	100	Rotation
North Branch Wilson 7	Dunn	CTH Q	7/3	100	Rotation
Unnamed Creek 27-7 St. 1	Dunn	Field Crossing	7/18	100	Rotation
Unnamed Creek 28-5 St. 1	Dunn	Field Rd	6/25	100	Rotation
Unnamed Creek 20-12 St. 1	Dunn	810th Ave	6/25	100	Rotation
Unnamed Creek 20-8 St. 1	Dunn	CTH Q	6/25	100	Rotation
Unnamed Creek 20-6 St. 1	Dunn	Field	7/3	100	Rotation
Rush Creek 1	Dunn	650th Ave	7/1	100	Rotation



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Rush Creek 2	Dunn	670th Ave	7/1	100	Rotation
Rush Creek 3	Dunn	250th St	6/25	100	Rotation
Gilbert Creek 1	Dunn	CTH P	6/12	256	Rotation
Gilbert Creek 3	Dunn	550th Ave	6/12	252	Rotation
Gilbert Creek 5	Dunn	330th St	6/11	245	Rotation
Gilbert Creek 6	Dunn	CTH K	6/11	208	Rotation
Gilbert Creek 8	Dunn	200th St	6/11	217	Rotation
North Branch Gilbert 1	Dunn	CTH Q	6/10	100	Rotation
North Branch Gilbert 3	Dunn	CTH N	6/10	140	Rotation
Unnamed Creek 17-10 St. 1	Dunn	CTH N	6/18	100	Rotation
Middle Branch Gilbert 1	Dunn	CTH Q	6/18	100	Rotation
Middle Branch Gilbert 561 st St.	Dunn	561st St	6/18	100	Rotation
South Branch Gilbert 1	Dunn	561st St	6/18	100	Rotation
South Branch Gilbert DNR Land	Dunn	DNR Land	6/18	100	Rotation
South Branch Gilbert 2	Dunn	STH 29	6/19	140	Rotation
South Branch Gilbert 3	Dunn	Driveway	7/18	100	Rotation
Unnamed Creek 20-16 St. 1	Dunn	270th St	6/20	100	Rotation
Wind River St. 1	Pierce	STH 35	6/26	100	Other Investigation





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BROOK TROUT SIZE AND ABUNDANCE (CPUE) METRICS								
Stream/Station	Total Number Sampled	BROOK TROUT CPUE (No. per Mile)						
		Total CPUE	YOY CPUE	≥5" CPUE	≥8" CPUE	≥10" CPUE	≥12" CPUE	≥14" CPUE
Beaver Creek 1	751	5981	3568	2413	454	56	0	0
Big River 2	61	442	399	44	15	0	0	0
Bolen Creek 1	141	1013	316	697	302	115	7	0
Cady Creek 2	157	1232	471	761	118	31	0	0
Cady Creek 4	525	3926	2012	1915	404	105	0	0
Eau Galle River 10	9	43	0	43	5	0	0	0
Gilbert Creek 9	17	181	11	171	107	75	53	11
North Branch Gilbert Creek T	84	1017	97	920	97	12	0	0
Knights Creek 2	24	178	67	111	67	7	0	0
West Branch Knights 2	38	524	276	248	14	0	0	0
Lost Creek	2	12	6	6	6	6	0	0
Parker Creek 2	19	149	0	149	31	0	0	0
Pine Creek 2A	7	56	0	56	32	8	0	0
Plum Creek 8	18	111	12	99	49	6	0	0
Rocky Branch 1	2	27	13	13	0	0	0	0
Rush River 8	3	13	4	9	9	0	0	0
Rush River 11	165	664	507	157	40	4	0	0
Rush River 17	9	43	14	29	14	0	0	0
South Fork Hay River 13	115	621	151	470	103	38	0	0
South Fork Hay River 19	404	2430	1509	920	343	66	0	0
South Fork Kinnickinnic River 3	302	4832	2272	2560	272	0	0	0
South Fork Willow River 4	132	1020	85	935	348	116	8	0
Tiffany Creek 2	16	89	6	83	44	11	0	0
Tiffany Creek 14	100	1600	768	832	32	0	0	0
Torgerson Creek 1	60	960	736	224	0	0	0	0
Trimbelle River 15D	75	497	66	431	265	66	0	0
Wilson Creek 6	71	361	76	284	132	31	0	0
Wilson Creek 11	98	1052	569	483	107	0	0	0



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Wilson Creek 8	98	922	160	762	226	66	0	0
Hay Creek 190th St	67	1079	225	853	258	32	0	0
Cady Creek	72	610	314	297	102	17	0	0
North Branch Wilson 3	21	235	0	235	56	0	0	0
Plum Creek VH1	11	87	0	87	0	0	0	0
Plum Creek VH2	50	243	19	223	58	5	0	0
Plum Creek VH3	26	174	0	174	54	7	0	0
Kinnickinnic River 6A	11	27	0	27	27	15	0	0
Pine Creek 3	28	451	32	419	0	0	0	0
North Branch Pine Creek 1	0	0	0	0	0	0	0	0
Wilson Creek 2	0	0	0	0	0	0	0	0
Wilson Creek 4	30	195	7	188	110	45	0	0
Wilson Creek 9	33	436	119	316	79	26	0	0
Wilson Creek 10	75	616	361	255	74	25	0	0
Wilson Creek 13	34	544	256	288	48	0	0	0
Unnamed Creek 15-14 St 1	5	81	0	81	16	0	0	0
Unnamed Creek 15-14 BB	7	113	0	113	0	0	0	0
Annis Creek 1	30	230	0	230	84	23	0	0
Annis Creek 2	24	291	24	266	145	61	12	0
Annis Creek 3	21	338	0	338	113	32	0	0
Annis Creek 4	56	902	225	676	242	0	0	0
Annis Creek 5	27	435	97	338	48	0	0	0
Annis Creek 7	17	274	145	129	0	0	0	0
Clack Creek 1	45	724	0	724	354	48	0	0
Clack Creek 2	68	1095	338	757	177	0	0	0
Clack Creek 4	14	225	193	32	0	0	0	0
Crosby Creek 1	50	805	161	644	129	0	0	0



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Crosby Creek 2	6	97	0	97	0	0	0	0
Unnamed Creek 25-3 St. 1	44	708	499	209	0	0	0	0
Unnamed Creek 23-1 St.1	36	576	483	97	0	0	0	0
Unnamed Creek 14-9 St. 1	12	193	161	32	16	0	0	0
Hay Creek 1	60	966	129	837	322	113	0	0
Hay Creek 3	48	773	435	338	16	0	0	0
Hay Creek 4	15	242	209	32	0	0	0	0
Unnamed Creek 3-9 St. 1	11	177	64	113	0	0	0	0
Unnamed Creek 3-9	52	837	290	547	64	0	0	0
North Branch Wilson 1	107	1231	127	1104	564	253	46	0
North Branch Wilson 2	35	563	0	563	290	161	48	0
North Branch Wilson 6	39	628	370	258	32	16	0	0
North Branch Wilson 7	80	1288	129	1159	161	0	0	0
Unnamed Creek 27-7 St. 1	0	0	0	0	0	0	0	0
Unnamed Creek 28-5 St. 1	1	16	0	16	16	0	0	0
Unnamed Creek 20-12 St. 1	34	547	177	370	145	0	0	0
Unnamed Creek 20-8 St. 1	4	64	32	32	0	0	0	0
Unnamed Creek 20-6 St. 1	14	225	177	48	0	0	0	0
Rush Creek 1	20	322	113	209	16	0	0	0
Rush Creek 2	29	467	32	435	64	16	0	0
Rush Creek 3	38	612	467	145	0	0	0	0
Gilbert Creek 1	13	82	0	82	50	19	0	0
Gilbert Creek 3	11	70	0	70	51	13	6	0
Gilbert Creek 5	19	125	20	105	40	13	7	0
Gilbert Creek 6	14	108	16	93	39	8	8	0
Gilbert Creek 8	206	1528	994	534	104	7	0	0
Gilbert Creek 9	17	181	11	171	107	75	54	11
North Branch Gilbert 1	7	113	0	113	0	0	0	0
North Branch Gilbert 3	78	897	426	472	46	0	0	0



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		Total CPUE	YOY CPUE	≥8" CPUE	≥12" CPUE	≥14" CPUE	≥16" CPUE	≥18" CPUE
Big River 2	98	711	428	152	0	0	0	0
Cady Creek 2	72	565	220	188	39	24	0	0
Cady Creek 4	65	486	404	8	0	0	0	0
Cady Creek DS of P	89	754	110	339	59	8	0	0
Eau Galle River 10	293	1383	519	864	189	43	0	0
Gilbert Creek 9	93	992	0	939	651	405	224	64
North Branch Gilbert	42	509	218	85	24	0	0	0
Isabelle Creek 2	299	1888	1042	562	107	13	0	0
Kinnickinnic River 6	1150	4628	2012	1892	338	81	32	8
Kinnickinnic River 8	1536	5525	986	2342	104	25	11	7
Kinnickinnic River 6A	365	1409	540	760	205	135	58	19
Knights Creek 2	9	67	15	30	7	7	7	7
Lost Creek 1	597	3708	2969	410	267	81	6	0
Parker Creek 2	535	4197	1679	1020	86	8	0	0
Pine Creek 2A	620	4983	611	1824	88	24	16	16
Plum Creek 8	289	1779	615	1163	80	12	0	0
Rocky Branch 1	291	3910	3439	202	13	0	0	0
Rush River 8	618	2653	691	1726	871	189	17	4
Rush River 14	1521	5326	3547	1075	315	11	4	0
Rush River 17	209	1004	413	341	91	48	0	0
Trimbelle River 8	168	1690	251	1257	422	20	10	0
Trimbelle River 12	263	1389	1162	169	42	0	0	0
Trimbelle River 15D	81	537	33	318	106	33	0	0
Willow River Race 2	279	1123	684	229	72	40	24	0
Wilson Creek 6	4	20	10	5	0	0	0	0
Wilson Creek 11	92	987	665	107	54	11	0	0
Plum Creek VH1	176	1387	166	1009	300	55	8	0
Plum Creek VH2	177	860	92	641	185	10	5	0
Plum Creek VH3	148	989	154	622	120	20	0	0



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		Total CPUE	YOY CPUE	≥8" CPUE	≥12" CPUE	≥14" CPUE	≥16" CPUE	≥18" CPUE
Wind River 1	0	0	0	0	0	0	0	0
Gilbert Creek 1	101	635	38	402	170	88	31	13
Gilbert Creek 3	74	470	6	463	121	70	25	13
Gilbert Creek 5	77	506	13	414	210	86	59	33
Gilbert Creek 6	220	1703	650	581	170	62	23	16
Gilbert Creek 8	139	1031	430	215	45	7	0	0
North Branch Gilbert 1	2	32	16	16	0	0	0	0
North Branch Gilbert 3	98	1127	1035	35	0	0	0	0
Unnamed Creek 17-10	9	145	129	16	0	0	0	0
Middle Branch Gilbert 561 st St	15	242	242	0	0	0	0	0
South Branch Gilbert 1	2	32	0	32	16	16	0	0
South Branch Gilbert (DNR Land)	30	483	386	64	16	0	0	0
South Branch Gilbert 2	15	173	138	12	0	0	0	0
Wilson Creek 2	0	0	0	0	0	0	0	0
Wilson Creek 4	4	26	0	26	0	0	0	0
Wilson Creek 8	6	57	9	19	0	0	0	0
Wilson Creek 9	19	251	185	66	13	0	0	0
Wilson Creek 10	40	329	99	115	58	8	0	0
Wilson Creek 13	3	48	48	0	0	0	0	0

