

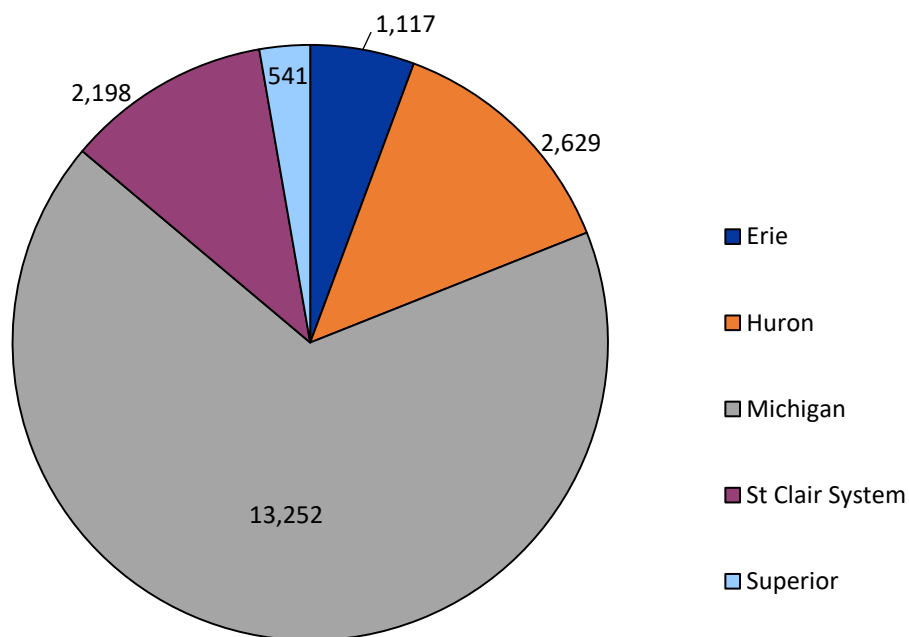
Charter Boat Catch and Effort from the Michigan Waters of the Great Lakes, 2018

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and

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2018 Charter Excursions by Lake - Total 19,737



Michigan Department of Natural Resources

Fisheries Division

Charlevoix Fisheries Research Station

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Charter Boat Catch & Effort from the Michigan Waters of the Great Lakes
2018 Annual Survey Performance Report

State: Michigan

Project No: F-61-R-3

Survey No: 230462

Title: Charter Boat catch and effort from the Michigan waters of the Great Lakes.

Period Covered: January 1, 2018– September 30, 2019

Survey Objective: Obtain a continuous annual record of the charter fishing catch, effort, and catch rate of the major sport fish in the Michigan waters of the Great Lakes.

Summary: In April 2019, Michigan Department of Natural Resources (MDNR) Charlevoix Fisheries Research Station (CFRS) personnel mailed charter fishing annual reporting packets to all known charter fishing operators who possessed a license to fish the Michigan waters of the Great Lakes and their major tributaries. Charter operators who had previously used the charter fishing online reporting system were sent reporting information via email in lieu of mailed reporting packets. The charter fishing reporting mailing packets included Charter Boat Daily Catch Report forms, instructions on how to complete and mail the forms, self-addressed return envelopes, grid maps of the Great Lakes, and a notice that the online system is operational as an option for reporting. State of Michigan Public Act 451 (Part 445) of 1994 requires all charter operators to record their daily fishing effort and catch and report their charter fishing activity to the DNR on a monthly basis. During the 2018 and 2019 data collection seasons, CFRS staff sent post card or certified mail notification to delinquent charter operators. By the end of the 2018 season, inclusive of assistance from MDNR Law Enforcement Division (LED) compliance-related activities through January 2019, 100% of all charter operators complied with state-mandated reporting requirements and data from 2018 is summarized in this report. Survey results were disseminated via written report, as mandated by Public Act 451, with data summarized by Great Lake for fishing effort, catch, and harvest. Lake and port-specific results were posted on the DNR Charter Fishing Reporting Program website. Detailed harvest results were presented at meetings of charter organizations, citizen advisory groups, and other public and agency meetings. Similar data were collected during the 2019 season and will be summarized in the report for FY2020.

Findings: Approach 1 was scheduled for fiscal year 2019, and progress is reported below.

Approach 1. Obtain a continuous annual record of the charter fishing catch, effort, and catch rate of the major sport fish in the Michigan waters of the Great Lakes.

Job 1. Survey design and coordination.—Sport catch and fishing effort by the charter fishing industry is key fisheries information used directly in management decisions; reporting of this information is required under State of Michigan Public Act 451 (Part 445) of 1994. The survey design involves a census of charter operators identified from: (1) a list of operators who submitted catch reports the previous year; (2) review of the DNR LED list of individuals who applied for and/or received a certificate of inspection for a fishing vessel; and (3) individuals who applied for and/or received a Sport Trolling License. Charter reporting results in a continuous annual record of (1) charter fishing effort, and (2) number, type, and location of fish caught and harvested by charter anglers.

Modifications to the information collected and the online data collection system have been ongoing throughout the years of the study and have been described in previous performance reports. Most work in 2018-19 focused on final development and deployment of a new online charter reporting

system. Charter reporting is one module of a three-component reporting system called FACTS (Fishing Activity and Catch Tracking System) developed for MDNR Fisheries by Electric Edge, an information technology contractor hired by the State of Michigan; the other two modules are commercial fisheries reporting and wholesale fisheries reporting. Initial public rollout of the new FACTS system occurred in early 2019, with full mobile application implemented in June 2019. Charter Program staff are still working with Electric Edge to “fine tune” the system and complete development of additional sub-modules within the new program (e.g., bulk data entry, management interface, others).

CFRS personnel emphasized the importance of accurate reporting throughout the entire season via telephone conversations and written correspondence with charter operators. In addition, between October 1, 2018 and September 30, 2019, program personnel made presentations at Michigan Sea Grant workshops, Michigan Charter Boat Association meetings, fisheries workshops, citizen advisory meetings, and other public and agency meetings. These workshops and meetings provided an opportunity to: (1) share local and lake-wide fishing data; (2) educate charter operators about the importance of accurate and timely data reporting; (3) explain how to interpret results and how the data are used to address fisheries management concerns; (4) address questions and get feedback about the program; (5) promote and provide updates on the online reporting system; and (6) promote positive and trusting relationships between the public and the DNR.

Job 2. Conduct surveys and process samples.—In early April 2019, CFRS personnel sent, by mail or email, annual reporting instructions to 572 charter operators who report on 650 charter boats. Included within the postal mailings were Charter Boat Daily Catch Report forms, instructions on how to complete and mail the forms, self-addressed return envelopes, grid maps of the Great Lakes, and a notice that the online system is operational as an option for reporting. With these mailings, operators were reminded (1) they are required by law to complete and submit monthly reports to the DNR by the tenth day of the month following the month of fishing, and (2) of penalties for non-reporting. Completed catch and activity forms received by the CFRS were logged and entered into an electronic database.

The online reporting system is another method available for charter captains to submit monthly reports. Those captains using the system at the end of the 2018 fishing season received an online instructional email in April 2019 in lieu of the above-described mailing. As of the end date of Fiscal Year 2019, there were 688 active charter boats of which 365 charter operators, reporting for 420 boats representing approximately 60% of total operators and boats, had established an online reporting account.

Job 3. Manage data, maintain databases.—Data entry was completed by staff at the CFRS and online by charter operators. As charter report forms and online data arrived at the CFRS, personnel checked the forms and data for completeness. If incomplete, the forms were returned to charter operators with an explanation and request for the form to be corrected or completed. Errors from online reporting were reviewed and corrected using email or telephone. In some cases, CFRS staff did not receive reports by the due date; therefore, delinquent notices were sent via postcard to charter operators who had not filed a report for a particular month (March through October). These notices were sent at least 30 days after an operator was delinquent with data for a given month. CFRS staff sent a final notice letter to delinquent operators in December. Those operators with one delinquent report were sent a letter via first class mail and those with two or more delinquent reports were sent letters via certified mail. The letter notified the operator that if they did not respond in writing within 15 days, his or her name may be submitted to the DNR LED with a recommendation that they not be issued an inspection certificate for the following season. By mid-January 2019, 100% of all charter operators had complied with the law for the 2018 reporting season.

Postcard notices did not always elicit a response from operators. CFRS staff continued close coordination with LED to identify reasons for noncompliance. These actions enabled CFRS staff to identify those operators who failed to submit reports for acceptable reasons (e.g. stopped fishing during the middle of the season or were out of business), thereby reducing the percentage of noncompliant operators. Furthermore, the coordination effort enabled staff to identify and add operators who were absent from the database, improving the accuracy of effort and catch totals for the following year. The increased coordination between CFRS staff and LED, initiated in 2016, worked very well and was continued in 2019. Each month of June through September 2019, CFRS staff provided a current listing of charter operators who were delinquent on reports to LED; monthly lists will be provided as needed through the end of the year. LED district conservation officers and support staff contacted the charter operators in person or via phone and requested the operator submit monthly reports. The added interaction between LED and charter operators maintained the increased monthly reporting compliance; in December 2018, at the time of sending final notification letters for one or more delinquent reports, 96% of the operators/boats were in compliance. By end of January 2019, LED enforcement actions had increased compliance to 100% for the 2018 season.

Job 4. Analyze data, modeling.—Data analyses and summaries included operator reporting compliance; fishing effort, harvest, catch, harvest rate, and catch rate by lake, statistical district, and port; and rates of Sea Lamprey *Petromyzon marinus* incidence on charter-caught fish. Data were incorporated into and complemented analyses by other Fisheries Division staff, university collaborators, and multi-agency working groups.

In 2018, a total of 78,925 charter anglers participated in 19,737 excursions on the Michigan waters of lakes Michigan, Huron, Erie, Superior, and the St. Clair system (including the major tributaries) totaling 435,210 hours fishing. When compared to 2017 the charter effort excursions increased 9%, anglers increased 10%, and angler hours increased 9%.

Charter operators reported 220,285 fish harvested from the Michigan waters of the Great Lakes and select tributaries in 2018. The most numerous species in the 2018 harvest was Lake Trout *Salvelinus namaycush* (72,982), followed by Walleye *Sander vitreus* (67,701), Yellow Perch *Perca flavescens* (27,237), Chinook Salmon *Oncorhynchus tshawytscha* (25,130), Coho Salmon *Oncorhynchus kisutch* (15,235), Rainbow Trout *Oncorhynchus mykiss* (6,787), Smallmouth Bass *Micropterus dolomieu* (1,230), and Brown Trout *Salmo trutta* (498). Relative to 2017 species harvest numbers, 2018 Smallmouth Bass harvest increased by 58%, Brown Trout harvest increased 34%, Lake Trout by 32%, and Walleye by 31%. The 2018 Yellow Perch harvest decreased by 46% and Coho Salmon harvest decreased 34%, while Chinook Salmon and Rainbow Trout harvest remained essentially unchanged from 2017.

In 2018, Sea Lamprey incidence on Chinook Salmon increased for Lake Huron, but decreased for Lake Michigan compared to that observed in 2017. Sea Lamprey occurrence on Lake Trout increased in Lake Superior and Lake Huron, but was unchanged for Lake Michigan (compared to 2017).

Job 5. Write reports.—This annual progress report was prepared. Lakewide data tables are attached to this report. Additional data along with summary tables for individual ports are available on the DNR Fisheries Division web site at https://www.michigan.gov/dnr/0,4570,7-350-79136_79236_80538_80540---,00.html

Prepared by: Donna Wesander

Date: September 30, 2019

Table.—Targeted harvest & catch rates per hour, per excursion, and number of fish harvested or released by species for charter boats fishing Michigan waters of Lake Michigan and select tributaries, 2018. Targeted harvest & catch of any salmon or trout is based on total salmonine effort; other species are trip target specific. Catch Rates = harvested (kept) fish + released fish. Bottom lines show total fishing effort (angler hours, anglers, and charter excursions).

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Targeted Harvest/hr Catch/hr	Targeted Harvest/excur. Catch/excur.	SPECIES Harvest= Line 1 Released = Line 2	Month												TARGETED	TOTAL
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Harvest/year released/year	(target+non-target) Harvest/year released/year
0.051	1.172	Coho salmon	0	0	101	679	3,315	4,585	1,690	1,839	2,454	71	50	0	14,784	14,784
0.052	1.186	released	0	0	0	3	86	1	15	28	31	3	3	0	170	170
0.083	1.900	Chinook salmon	0	0	1	83	6,817	2,658	4,178	8,183	1,889	140	20	0	23,969	23,972
0.087	1.982	released	0	0	0	28	269	141	121	147	65	251	3	0	1,025	1,026
0.021	0.489	Rainbow trout	68	122	472	169	294	802	1,460	1,089	600	308	467	312	6,163	6,182
0.024	0.547	released	10	10	72	129	43	15	13	9	5	142	166	121	735	736
0.001	0.029	Brown trout	0	0	19	33	80	36	72	96	18	6	5	1	366	366
0.002	0.045	released	0	0	11	30	51	24	4	44	14	9	12	3	202	202
0.205	4.702	Lake trout	0	0	0	916	4,634	10,642	19,935	18,119	4,768	283	0	0	59,297	59,312
0.217	4.972	released	0	0	0	22	181	964	1,475	596	160	9	0	0	3,407	3,431
0.944	54.480	Yellow perch	0	0	0	59	1,173	119	551	440	200	0	77	105	2,724	2,789
1.027	59.240	released	0	0	0	45	98	80	15	0	0	0	0	0	238	323
0.253	4.397	Walleye	0	16	0	16	53	153	120	197	128	40	56	74	853	895
0.483	8.381	released	2	27	0	0	40	254	114	114	49	8	77	88	773	816
0.002	0.025	Smallmouth Bass	0	0	0	0	0	2	5	0	0	0	0	0	7	30
1.425	18.283	released	0	0	0	0	327	1,599	1,485	950	468	210	0	0	5,039	5,638
		Musky	0	0	0	0	0	0	0	0	0	0	0	0	0	1
		released	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.252	3.258	Other	0	0	0	6	208	71	55	41	10	0	0	0	391	1,383
0.661	8.558	released	0	0	0	8	179	216	46	112	75	0	0	0	636	956
		Lamprey on:														
		Chinook salmon	0	0	0	0	15	25	13	29	9	0	0	0	91	91
		Lake trout	0	0	0	0	16	29	44	24	8	0	0	0	121	121
		Total angler hours	450	681	2,338	4,278	30,725	44,529	78,952	91,415	33,096	5,897	5,184	2,436		299,981
		Total anglers	63	97	338	745	5,456	8,157	14,840	16,666	6,157	852	735	361		54,467
		Total excursions	25	35	123	201	1,262	1,940	3,430	3,974	1,538	318	274	132		13,252

Table —Targeted harvest & catch rates per hour, per excursion, and number of fish harvested or released by species for charter boats fishing Michigan waters of Lake Huron and select tributaries, 2018. Targeted harvest & catch of any salmon or trout is based on total salmonine effort; other species are trip target specific. Catch Rates = harvested (kept) fish + released fish. Bottom lines show total fishing effort (angler hours, anglers, and charter excursions).

Targeted Harvest/hr Catch/hr	Targeted Harvest/excur Catch/excur	SPECIES Harvest= Line 1 Released = Line 2	Month												TARGETED Harvest/year released/year	TOTAL (target+non-target) Harvest/year released/year
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
0.006	0.110	Coho salmon	0	0	0	2	21	39	41	40	11	3	0	0	157	157
0.006	0.111	released	0	0	0	0	0	0	0	0	0	0	1	0	1	1
0.037	0.744	Chinook salmon	0	0	0	1	33	142	471	324	88	3	0	0	1,062	1,066
0.037	0.748	released	0	0	0	0	0	0	2	1	2	0	0	0	5	5
0.019	0.377	Rainbow trout	0	10	7	13	22	66	232	122	55	11	0	0	538	546
0.023	0.451	released	0	0	0	0	0	60	31	2	3	4	5	0	105	106
0.000	0.009	Brown trout	0	0	0	0	1	3	4	0	3	2	0	0	13	14
0.001	0.018	released	0	0	0	0	1	0	4	0	6	1	0	0	12	13
0.315	6.273	Lake trout	0	0	0	0	1,037	2,109	2,544	2,123	1,139	0	0	0	8,952	8,966
0.331	6.604	released	0	0	0	0	59	80	150	58	120	5	0	0	472	474
1.394	29.709	Yellow perch	0	0	21	0	57	77	88	438	619	334	0	0	1,634	1,987
1.764	37.582	released	0	0	0	0	96	10	10	82	171	64	0	0	433	458
0.889	18.827	Walleye	0	0	34	193	3,800	8,540	6,860	1,294	311	179	237	15	21,463	21,969
1.084	22.964	released	0	0	5	27	691	2,026	1,015	185	38	81	563	85	4,716	4,744
0.000	0.000	Smallmouth Bass	0	0	0	0	0	0	0	0	0	0	0	0	0	75
12.667	76.000	released	0	0	0	0	0	0	0	0	76	0	0	0	76	209
		Musky	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		released	0	0	0	0	0	0	0	0	0	0	0	0	0	5
0.313	4.167	Other	0	0	0	0	17	2	6	0	0	0	0	0	25	964
0.638	8.500	released	0	0	0	0	7	6	13	0	0	0	0	0	26	1,735
		Lamprey on:														
		Chinook salmon	0	0	0	0	15	21	137	45	9	0	0	0	227	228
		Lake trout	0	0	0	0	62	75	88	70	51	0	0	0	346	346
		Total angler hours	0	42	96	458	6,080	14,615	17,598	9,555	4,337	709	350	27		53,867
		Total anglers	0	6	17	74	1,081	2,611	3,169	1,754	800	128	67	6		9,713
		Total excursions	0	3	7	27	287	697	840	482	222	39	23	2		2,629

Table.—Targeted harvest & catch rates per hour, per excursion, and number of fish harvested or released by species for charter boats fishing Michigan waters of Lake Superior, 2018. Targeted harvest & catch of any salmon or trout is based on total salmonine effort; other species are trip target specific. Catch Rates = harvested (kept) fish + released fish. Bottom lines show total fishing effort (angler hours, anglers, and charter excursions).

Targeted Harvest/hr Catch/hr	Targeted Harvest/excur Catch/excur	SPECIES Harvest= Line 1 Released= Line 2	Month												TARGETED Harvest/year released/year	TOTAL (target+non-target) Harvest/year released/year
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
0.022	0.534	Coho salmon	0	0	0	0	12	35	114	75	46	4	0	0	286	286
0.022	0.549	released	0	0	0	0	0	1	6	1	0	0	0	0	8	8
0.007	0.172	Chinook salmon	0	0	0	0	3	32	23	32	2	0	0	0	92	92
0.007	0.177	released	0	0	0	0	3	0	0	0	0	0	0	0	3	3
0.004	0.103	Rainbow trout	0	0	0	0	6	13	25	4	6	1	0	0	55	55
0.005	0.116	released	0	0	0	0	3	1	3	0	0	0	0	0	7	7
0.009	0.218	Brown trout	0	0	0	0	5	41	41	24	5	1	0	0	117	117
0.011	0.269	released	0	0	0	0	15	6	6	0	0	0	0	0	27	27
0.355	8.776	Lake trout	0	0	0	0	52	761	1,822	1,649	396	24	0	0	4,704	4,704
0.460	11.371	released	0	0	0	0	122	258	602	321	63	25	0	0	1,391	1,391
		Yellow perch	0	0	0	0	0	0	0	0	0	0	0	0	0	2
		released	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.413	7.750	Walleye	0	0	0	0	0	23	5	3	0	0	0	0	31	32
0.493	9.250	released	0	0	0	0	0	6	0	0	0	0	0	0	6	8
0.000	0.000	Smallmouth Bass	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.400	21.000	released	0	0	0	0	0	0	0	0	0	21	0	0	21	27
		Musky	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		released	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Other	0	0	0	0	0	0	0	0	0	0	0	0	0	12
		released	0	0	0	0	0	0	0	0	0	0	0	0	0	98
		Lamprey on:														
		Chinook salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Lake trout	0	0	0	0	0	15	14	10	5	4	0	0	48	48
		Total angler hours	0	0	0	0	315	2,482	5,212	4,251	960	134	0	0		13,354
		Total anglers	0	0	0	0	45	369	828	679	171	22	0	0		2,114
		Total excursions	0	0	0	0	13	97	204	170	49	8	0	0		541

Table.—Targeted harvest & catch rates per hour, per excursion, and number of fish harvested or released by species for charter boats fishing Michigan waters of Lake Erie, 2018. Targeted harvest & catch of any salmon or trout is based on total salmoning effort; other species are trip target specific. Catch Rates = harvested (kept) fish + released fish. Bottom lines show total fishing effort (angler hours, anglers, and charter excursions).

Targeted Harvest/hr Catch/hr	Targeted Harvest/excur Catch/excur	SPECIES Harvest= Line 1 Released= Line 2	Month												TARGETED Harvest/year released/year	TOTAL (target+non-target) Harvest/year released/year
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
		Coho salmon <i>released</i>	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
		Chinook salmon <i>released</i>	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
		Rainbow trout <i>released</i>	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	2 1
		Brown trout <i>released</i>	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
		Lake trout <i>released</i>	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
4.050	94.890	Yellow perch	0	0	0	0	0	436	733	5,483	6,884	4,588	0	0	18,124	18,416
4.363	102.215	<i>released</i>	0	0	0	0	0	7	42	347	589	414	0	0	1,399	1,426
1.218	23.367	Walleye	0	0	79	1,088	4,666	10,417	4,771	399	7	3	0	44	21,474	21,626
1.450	27.824	<i>released</i>	0	0	0	628	1,056	1,642	653	117	0	0	0	0	4,096	4,557
0.000	0.000	Smallmouth Bass	0	0	0	0	0	0	0	0	0	0	0	0	0	15
0.733	12.571	<i>released</i>	0	0	0	0	0	5	0	13	0	53	17	0	88	110
		Musky <i>released</i>	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 7
		Other <i>released</i>	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	197 2,714
		Lamprey on: Chinook salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Lake trout	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total angler hours	0	0	92	1,437	3,570	7,773	4,184	2,065	1,795	1,222	12	80		22,230
		Total anglers	0	0	21	248	842	1,912	930	367	332	209	2	15		4,878
		Total excursions	0	0	6	66	200	419	202	91	77	50	1	5		1,117

Table—Targeted harvest & catch rates per hour, per excursion, and number of fish harvested or released by species for charter boats fishing Michigan waters the St. Clair System (Lake St. Clair, St. Clair River, and Detroit River), 2018. Targeted harvest & catch of any salmon or trout is based on total salmonine effort; other species are trip target specific. Catch Rates = harvested (kept) fish + released fish. Bottom lines show total fishing effort (angler hours, anglers, and charter excursions).

Targeted Harvest/hr Catch/hr	Targeted Harvest/excur. Catch/excur.	SPECIES Harvest= Line 1 Released= Line 2	Month												TARGETED Harvest/year released/year	TOTAL (target+non-target) Harvest/year released/year	
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
0.000	0.000	Coho salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
0.000	0.000	released	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.000	0.000	Chinook salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.000	0.000	released	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
0.000	0.000	Rainbow trout	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
0.000	0.000	released	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.000	0.000	Brown trout	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
0.000	0.000	released	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.000	0.000	Lake trout	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.000	0.000	released	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.009	65.463	Yellow perch	0	0	0	0	0	254	418	94	1,483	1,286	0	0	3,535	4,043	
4.166	90.648	released	0	0	0	0	0	26	0	77	589	668	0	0	1,360	1,744	
0.921	19.374	Walleye	0	0	47	9,989	7,484	2,909	1,475	650	170	95	12	30	22,861	23,179	
1.337	28.109	released	0	0	5	5,574	4,121	506	66	8	3	1	4	20	10,308	10,452	
0.060	1.199	Smallmouth Bass	0	0	0	0	6	15	84	351	161	40	0	0	657	1,110	
1.402	27.841	released	0	0	0	33	4,056	3,522	2,524	2,703	1,225	537	0	0	14,600	15,807	
0.000	0.003	Musky	0	0	0	0	0	0	0	0	1	0	0	0	1	1	
0.120	2.691	released	0	0	0	0	0	187	241	161	158	97	89	16	949	1,039	
0.274	4.306	Other	0	0	0	0	267	0	0	0	0	0	0	0	267	927	
1.917	30.113	released	0	0	0	0	1,453	0	9	9	56	71	2	0	1,600	4,071	
		Lamprey on:															
		Chinook salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Lake trout	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total angler hours	0	0	72	11,670	9,879	6,779	5,355	4,654	3,435	2,630	1,057	247		45,778	
		Total anglers	0	0	12	2,092	1,858	1,124	863	744	526	380	124	30		7,753	
		Total excursions	0	0	4	508	485	338	264	234	179	127	46	13		2,198	