

MINNESOTA DEPARTMENT OF NATURAL RESOURCES
DIVISION OF FISH AND WILDLIFE
SECTION OF FISHERIES

COMPLETION REPORT LAKE SUPERIOR SUMMER CREEL SURVEY 2022

by
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Abstract

Anglers fished for 156,374 hours in the Minnesota waters of Lake Superior during the 2022 summer access-based creel survey and charter census. This is a 27% decrease from the same period, sampled from late May to Early October, in 2021. The weather is likely the main driving force behind the reduced fishing effort in 2022 as it was a particularly wet and stormy summer. Nearly all effort in 2022, 98%, was from boaters in the Minnesota waters of Lake Superior. The fishing effort in 2022 was the lowest recorded since 2009 and 61% of effort occurred in the Lower Shore area from Duluth to Two Harbors.

Minnesota-based anglers on Lake Superior generally target salmonines, which includes Lake Trout *Salvelinus namaycush* of both lean and siscowet strains, Coho Salmon *Oncorhynchus kisutch*, Chinook Salmon *O. tshawytscha*, and Rainbow Trout *O. mykiss* of both steelhead and Kamloops strains. In 2022, anglers caught 28,467 total salmonines, of which 24,876 were harvested. Anglers caught 49% less salmonines than 2021, and most of the harvested fish were Lake Trout. The combined salmonid catch rate was 0.1820 fish per hour (f/hr), a 29% reduction from 2021. Anglers in 2022 harvested 87% of all salmonids caught similar to the average of 90% in past years.

Anglers caught 23,380 lean Lake Trout and 1,186 siscowet Lake Trout and harvested 20,195 leans and 1,186 siscowets. Lean Lake Trout were caught at a rate 0.1495 f/hr, accounted for 82% of all salmonines caught and 81% of all salmonines harvested. The catch rate for lean Lake Trout was within 2% of the rate seen in 2021. The lean Lake Trout harvested were 93% wild fish, 10% higher than in 2021. In MN-1 near Duluth, stocked fish were only 22% of the harvest. The average length of harvested lean Lake Trout was 20.5 inches long which is slightly smaller than 2021.

During the 2022 season Anglers also caught Coho Salmon, Chinook Salmon, Pink Salmon *O. gorbuscha*, Rainbow Trout (steelhead), Brown Trout *Salmo trutta*, and Brook Trout *Salvelinus fontinalis*. Anglers caught 2,370 Coho Salmon at a rate of 0.0152 f/h which is dramatically lower than the 2021 catch of 10,096 and rate of 0.0466 f/h. In 2022, anglers caught 1,070 Chinook Salmon which is 49% less than 2021. Only 7 Pink Salmon were caught in 2022 compared to 1,974 caught in 2021. A combined total of 3,447 salmon were caught in 2022 with 2,734 from the Lower Shore and 713 from the Upper Shore. Anglers also kept 84 and released 59 other Salmonines which consisted of Brook Trout, Brown Trout, Kamloops Rainbow Trout, and Splake. A total of 311 steelhead Rainbow Trout were caught and released by anglers. They also caught 1,057 Walleye, 180 Cisco (Lake Herring/Tullibee) *Coregonus artedii*, 50 Lake Whitefish *Coregonus clupeaformis*, and 29 Northern Pike *Esox lucius*.

Fifty-two charter captains were licensed to fish in Minnesota waters of Lake Superior in 2022. Two captains reported no trips and two captains fished only in St. Louis River Bay. Beginning in 2018, charter results are reported as a separate angler type in the annual Lake Superior summer creel survey report.

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Introduction

Lake Superior and its tributaries offer unique habitats that support important pelagic and anadromous fisheries, contributing greatly to the diversity of angling opportunities in Minnesota. Several salmonines, including Lake Trout, Rainbow Trout, Coho Salmon, and Chinook Salmon, provide quality recreational fisheries along the North Shore of Lake Superior throughout the year.

During the first half of the 20th century, Lake Trout were the mainstay of the Lake Superior sport fishery and, along with Cisco supported an important commercial fishery. By the late 1940s the Lake Trout harvest began to decline due to overfishing (Hansen et al. 1995). During the 1950s the Sea Lamprey *Petromyzon marinus* became established in Lake Superior and preyed heavily on Lake Trout. Populations of Lake Trout declined precipitously, due to mortality from Sea Lamprey, and both the sport and commercial fisheries collapsed. By the early 1960s, effective control of Sea Lamprey had been achieved. Minnesota and other states and provinces began stocking salmonids to rehabilitate the depleted Lake Trout stocks and to introduce new strains of salmon species to diversify the fishery. Efforts to follow a recovery plan (Hansen 1996) were successful and Minnesota suspended stocking of Lake Trout in 2016. The state of Minnesota has monitored the recreation fishery in the Minnesota waters of Lake Superior annually since 1969.

This current report presents results from Minnesota's 2022 Lake Superior summer creel survey and charter fishing census. Charter captains reported their entire year's effort and catch as required by law (State Statute 97C.311). In addition, data were not collected from Wisconsin-based anglers who fished in Minnesota waters of Lake Superior. Therefore, only the components of Minnesota-based private sport fishing and charter fishing in Minnesota waters for the full year are included in this report.

Lake Superior Management Plans (Schreiner et al. 1995; Schreiner et al. 2006; Goldsworthy et al. 2016) have suggested periodic diet sampling for salmonines to evaluate changes in the fish community and the impact of limited forage on the salmonine populations. Lake Trout, a primary predator species in Lake Superior, historically persisted on a forage base of Cisco and other coregonines. Establishment of Rainbow Smelt *Osmerus mordax* (Smelt) and over-fishing of Cisco stocks led to the replacement of coregonines by Smelt as the primary forage of Lake Trout (Dryer et al. 1965). Conner et al. (1993) found that Smelt were the most important forage for various salmonines in Minnesota waters of Lake Superior. Smelt abundance declined in the early 1980s (Geving 1998) and remains low. However, Lake Trout diets are comprised primarily of Smelt in May (Blankenheim 2018), most likely due to their high concentrations in warmer waters and to the lack of Cisco recruitment in recent years (Goldsworthy et al. 2016). Diet samples were collected in 2022 and were processed independently from this survey.

Methods

This report of summer Lake Superior fishing is comprised of two primary components and a subcomponent of the charter fishery. The primary components include 1) a survey of private sport anglers, which is access-based and follows a stratified random statistical design and in 2022 was conducted from May 28 through October 2, and 2) a census of chartered anglers throughout the year. The subcomponent includes a survey of chartered trips to determine specific catch characteristics that are not reported in the charter census. The basic statistical method and formulas for the private sport angler survey are described by Bindman and Mach (1997), and more detail of the design of the Lake Superior summer creel survey is described by Halpern (1995a, b). The private sport angling survey includes private sport boaters, charter captains' personal trips, and shore anglers. The charter census includes data that are supplied by charter captains in monthly fishing reports. These data are required of charter captains and include location and time of fishing, number of anglers and lines, number of each species that were kept or released, and the number of fish with clipped fins that indicate stocking. Being a census, no observable measurement error exists with these data. However, reporting error does exist, is not readily calculated, is presumed to be unbiased, and is ignored in this report. In previous years, charter trips were included in the creel survey, which is somewhat redundant and may increase variance estimates. Beginning in 2018 as a subcomponent to the charter census, charter trips are also surveyed to determine angler demographics and fish attributes such as length, weight, number of Sea Lamprey wounds, and occurrence of fin clips. The survey and census components include only fishing in the Minnesota waters of Lake Superior (Figure 1) and excluded angling in tributaries and Wisconsin.

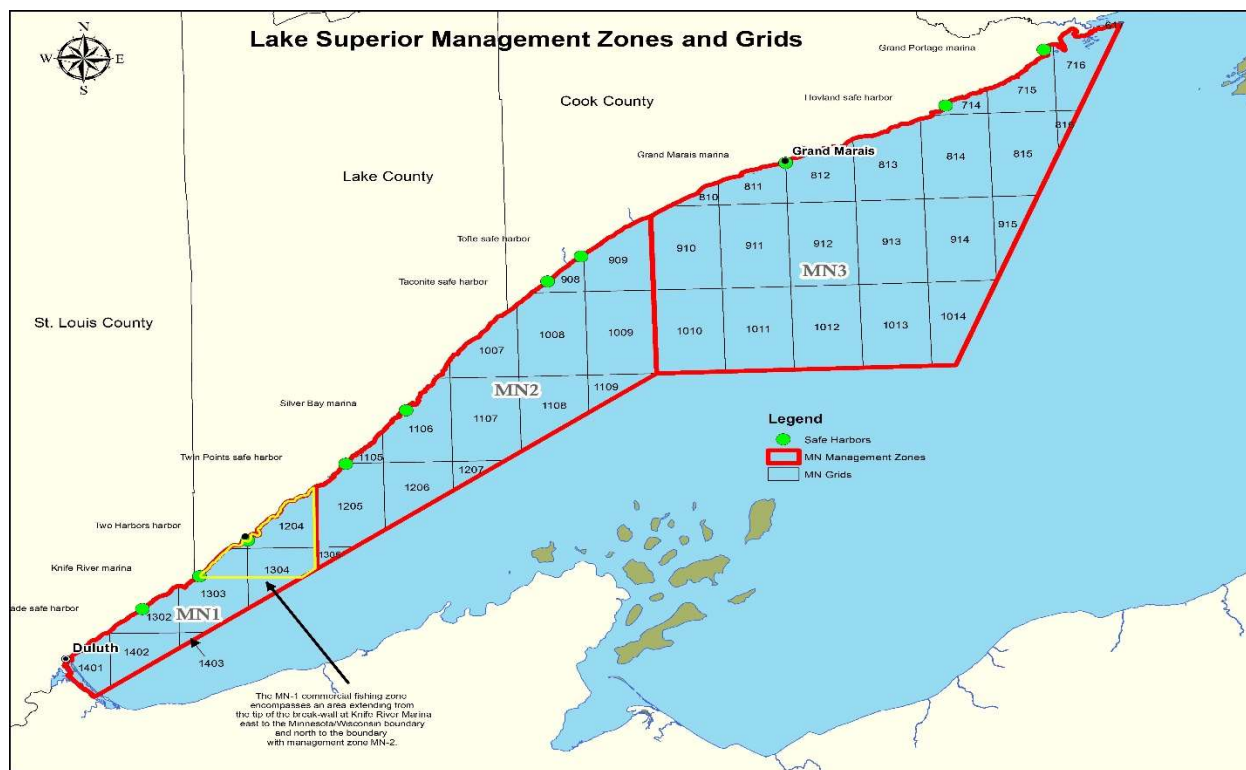


Figure 1. Map of statistical zones and safe harbors in the Minnesota waters of Lake Superior.

The 2022 survey began on May 28 and ended on October 2, when the Lake Trout season closed. The data collected during the few days in May and October were included in the June and October periods respectively. The creel clerks visited the stations and groups of stations (Clusters) that are described in Table 1. Clusters 1 and 2 are located closer to Duluth to the Southwest and comprise the Lower Shore, whereas Clusters 3 and 4 are to the Northeast and comprise the Upper Shore. Two clerks work on the creel survey, one in each Shore area. Halpern (2003) describes the general mechanics of this creel survey in more detail. The sampling design was revised in 2017 when sampling effort was dropped from two locations. One very small public access was dropped at Tofte in the Taconite Harbor area due to low use and high travel times to the access. Also, Harbor Cove was dropped from the Harbor Cove/Lakehead Marina station due to the owner's removal of permission to use the property. The counts from Taconite Harbor and Lakehead Marina, were adjusted based on previous estimates of effort at the dropped accesses. Taconite Harbor received 88% of the effort at Station 9 in 2014-2015 and Harbor Cove Marina received 50% of the effort at Station 2 from 2014 through 27 July 2017. Also in 2020, sampling effort was reduced but not eliminated at the Twin Points public access due to decreased fishing in recent years.

References to creel survey numbers for 2021 are from Reeves (2022). Results from the creel survey and charter census are reported both separately and combined within tables in this report to assess total catch and effort trends. Figures generally include combined data, except for angler effort and for the number of captains and their number of trips.

Table 1. Creel survey clusters and stations for the 2022 Lake Superior summer creel survey.

Shore	Cluster	Station	Description
Lower	1-Duluth	1	Charter Dock
		2	Lakehead Boat Basin
		3	Rice's Point Landing
Lower	2-McQuade to Two Harbors	4	McQuade Public Access
		5	Knife River-Knife River Marina
		6	Two Harbors-Agate Bay Access
Upper	3-Twin Points to Tofte	7	Twin Points Access
		8	Silver Bay Access and Marina
		9	Taconite Harbor, Tofte
Upper	4-Grand Marais to Hovland	10	Grand Marais Access and Marina
		11	Devil Track and Brule Rivers, Hovland Access

Results and Discussion

Fishing Effort

Private sport fishing effort in the Minnesota waters of Lake Superior anglers was estimated from 546 activity counts for the Lower Shore and 450 for the Upper Shore in 2022 (Table 2). Effort along the North Shore was measured by each clerk on 108 days of the 128-day survey season. Private sport anglers fished for 92,297 hours (Figure 2) during 24,080 trips, which lasted 3.83 hours and contained 2.11 anglers on average. Charter anglers fished for 64,077 hours during 2,327 trips, which lasted 5.27 hours and contained 5.17 anglers on average (Figure 2).

Overall measured angler effort decreased by 28% from 2021 to 2022 and was the lowest observed since 2009 (Figure 2). Survey design changes in 1994 eliminated sampling locations where anglers caught few salmonines. Since 1994, effort from Minnesota-based anglers has varied from 138,522 to 216,487 hours (Figure 2). Effort in the Lower Shore area accounted for 62% of the private sport angling effort from boats, 82% of the private fishing effort from shore (Table 3), and 81% of the effort from charters (Table 4) in 2022. Overall, 72% of fishing effort came from the Lower Shore area

Shore angling continues to comprise a small fraction of summer angling effort on Lake Superior. Shoreline anglers only fished for 2,674 hours in 2022, compared to 3,148 hours in 2021. Lake Superior boat anglers accounted for 98.3% of the effort and shore anglers accounted for the remaining 1.7%.

Individual charter captains chartered 0-156 trips in 2022 (Figure 3), which was very similar to 2021. Two captains reported no trips and two others trips only in the St. Louis River Estuary. Eight captains made 100+ trips in 2022. Some captains bought licenses in early in the year and chartered no trips in 2022.

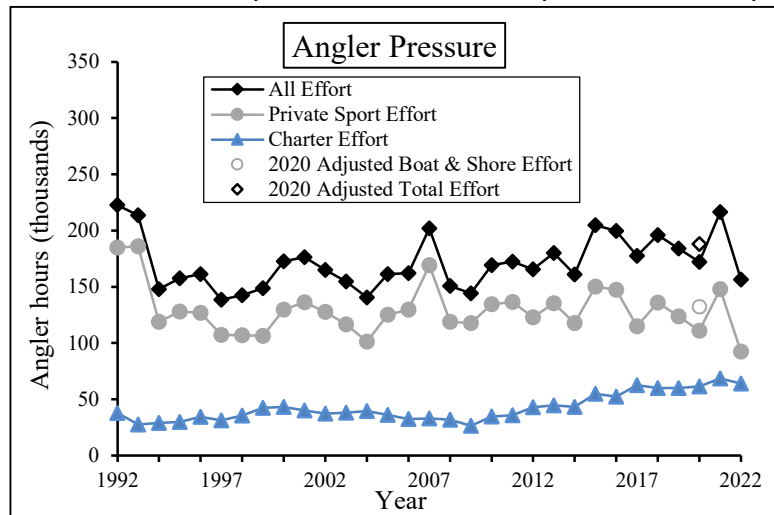


Figure 2. Angling effort in the Lake Superior summer creel survey, 1992-2022. The design of the summer Lake Superior creel survey was changed in 1994 (Halpern 1995a, b).

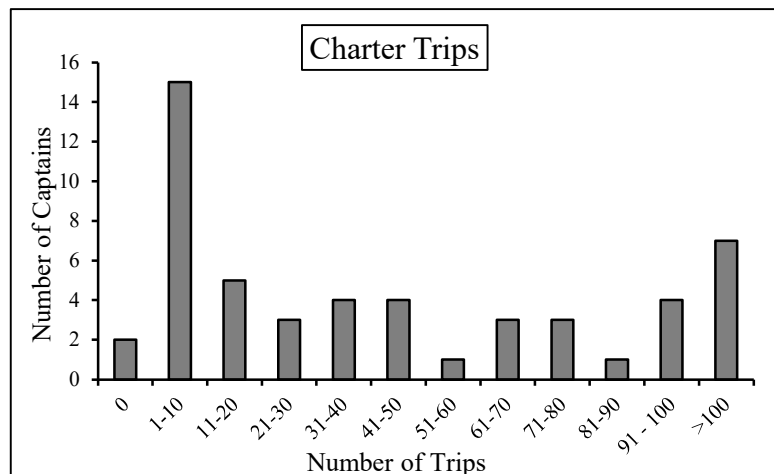


Figure 3. Number of trips by individual charter captains for the entire summer.

Catch and Catch Rates

Salmonines

Salmonines include trout and salmon species. Private sport anglers caught 14,970 salmonines (Table 5) and charter anglers caught 13,497 salmonines (Table 6), for a total catch of 28,467 salmonines in 2022 (Table 7). The total salmonine catch was 49% lower in 2022 than the catch of 55,679 salmonines in 2021 (Figure 4). Anglers released 13% of the total salmonine catch in 2022.

Angler catch and harvest rates were calculated in fish per hour (f/hr). Private sport anglers caught 0.1619 and harvested 0.1307 f/hr (Table 8). Charter anglers caught 0.2106 and harvested 0.1995 f/hr (Table 9). Combined, anglers caught 0.1819 and harvested 0.1589 f/hr in 2022 (Table 10). These rates were 29% and 21% lower than in 2021, respectively (Figure 3). Most of the decrease was due to lower salmon catches in 2022. Catch rates were considerably lower in 2022 than in 2021. Charter anglers continue to catch salmonines at a higher rate than private sport anglers.

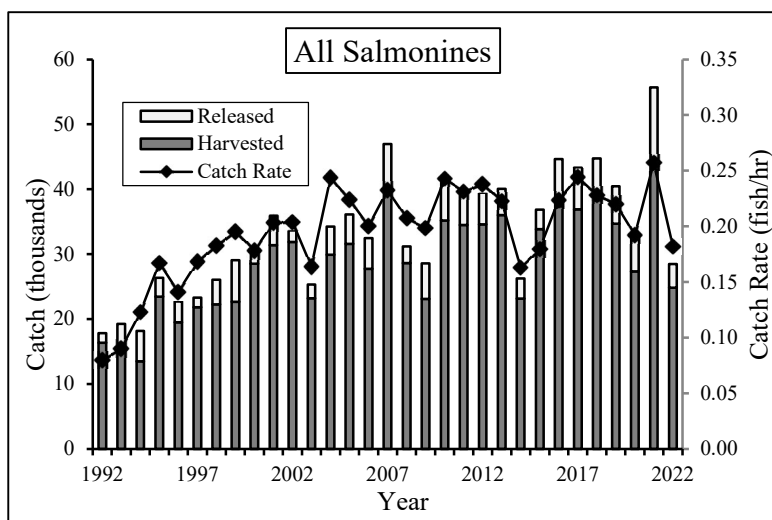


Figure 4. All Salmonines combined catch and catch rate in the Minnesota waters of Lake Superior during summer creel surveys from 1992-2022.

Lean Lake Trout

Private sport anglers caught 12,428 and kept 9,890 lean Lake Trout (Table 5), whereas charter anglers caught 10,952 and kept 10,305 in 2022 (Table 6). Combined, anglers caught 23,380 fish, which was 12% less than in 2021 (Figure 5). Compared to the previous 10-year average of 27,972 fish, anglers caught 16% less fish in 2022. Combined, anglers released 14% of the leans they caught, 3,185 fish, and harvested 20,195 fish, which was 24% less than in 2021. Lean Lake Trout accounted for 82% of all salmonines caught and 81% of all salmonines harvested. Seventy percent of all harvested lean Lake Trout were from the Lower Shore area (Table 7). Overall, anglers caught 0.1495 and kept 0.1291 f/hr (Table 10). Among private sport parties fishing from a boat, 46% caught one or more, 29% caught two or more, and 18% caught at least three lean Lake Trout per trip (Table 11). Success rates were much higher for charter angling parties, 86% of parties caught at least one fish, 76% caught at least two fish, and 64% caught at least three lean Lake Trout (Table 12). Overall success rate was very similar to 2021 despite the reduced effort, catch rate, and harvest rate.

Lean Lake Trout lengths were somewhat similar between private sport anglers and charter anglers in 2022. The average harvested fish length was 21 inches for private sport and charter anglers (Table 13 and 14). Over 75% of the fish were 17-24.8 inches long. Overall, mean length and length distributions were similar to harvested fish in 2021. Private sport anglers released 19% of fish that were ≥ 25 inches long (Table 15) and charter anglers released 22% of fish that were ≥ 25 inches long (Table 16). Private sport anglers kept fish that were 2.79 pounds on average (Table 17) and charter anglers kept fish that were 2.70 pounds on average (Table 18). Yield for lean Lake Trout was 27,597 pounds by private sport anglers (Table 19) and 27,839 pounds by charter anglers (Table 20). The yield for private sport anglers in 2022 decreased 48% compared to 2021 and the total yield of 55,436 pounds in 2022 was 32% less than in 2021 (Table 19). The yield for charter anglers was very similar to 2021.

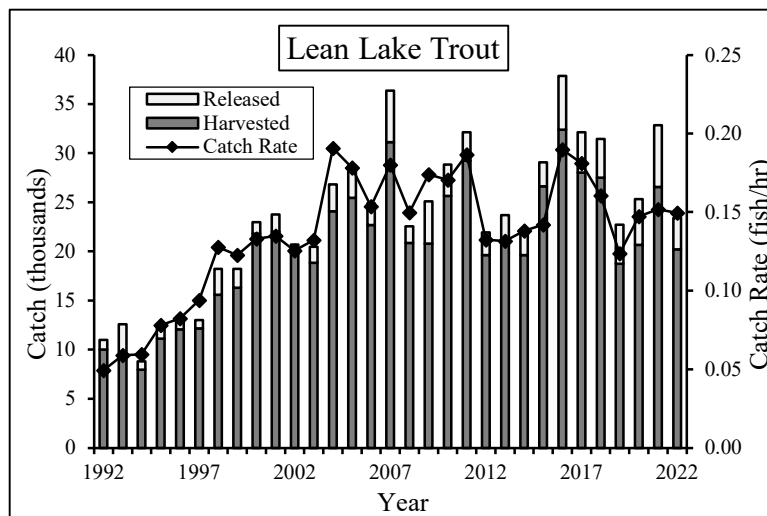


Figure 5. Lean Lake Trout catch and catch rate in the Minnesota waters of Lake Superior during summer creel surveys from 1992-2022.

In 2022, creel clerks checked 680 Lake Trout and observed no fin clips on 91% of harvested fish, which indicates that the fish were wild and not stocked. Including fish measured by anglers, wild fish comprised 87% of fish from the Duluth area, 100% from the McQuade-Two Harbors area, and 100% from both the Twin Points-Tofte and Grand Marais areas (Figure 6). Minnesota stocked Lake Trout through 2015 in the Lower Shore area and through 2003 in the Upper Shore area. Wisconsin has stocked Lake Trout through 2022. Stocked fish from the 2009-2014 year classes were poorly represented in the recreational fishery in 2022, indicating that Minnesota stocking produced few of the fish that anglers harvested.

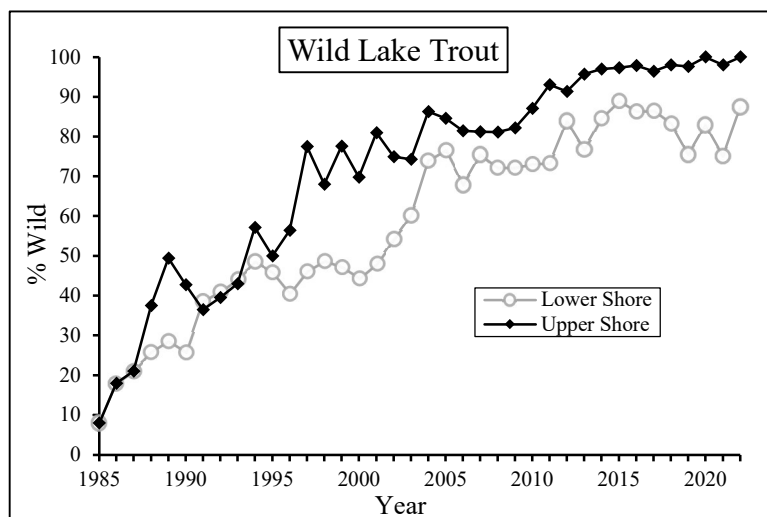


Figure 6. Percent wild Lake Trout observed by creel clerks during the Lake Superior summer creel surveys from 1985-2022.

Siscowet

Siscowet, a deep-water form of Lake Trout, have generally contributed little to the sport fishery, but catch has remained above 1,000 since 2015 which had only been previously observed twice since 1985 (Figure 7). Anglers caught a total of 1,186 siscowet in 2022 which is a 40% decrease from 2021. However, the catch in 2022 was slightly above the previous 10-year average catch of 1,103 fish.

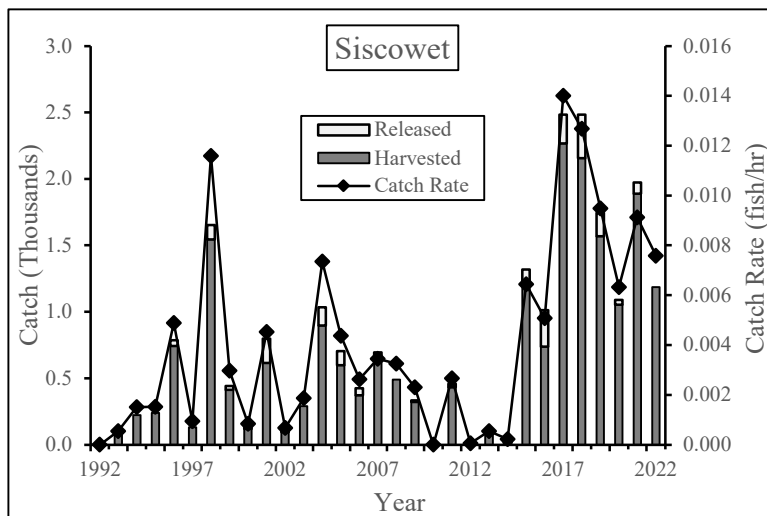


Figure 7. Siscowet Lake Trout catch and catch rate in the Minnesota waters of Lake Superior during summer creel surveys from 1992-2022.

Coho Salmon

Private sport anglers caught 1,403 and kept 1,383 Coho Salmon (Table 5), whereas charter anglers caught 967 and kept 964 fish in 2022 (Table 6). Overall, anglers caught 2,370 Coho Salmon (Figure 8). Anglers only released 23 fish which was <1% of their total catch. Coho Salmon accounted for 8% of all salmonines caught and 9% of all salmonines harvested. Eighty-two percent of the fish were caught in the Lower Shore area which is very different than 2021 when 57% were caught in the Upper Shore (Table 7). The catch rate of private sport anglers was 0.1072 f/h (Table 8) and charter anglers caught 0.1608 f/h (Table 9). Among private sport parties, 8% caught one or more, 3% caught two or more, and 1.9% caught at least three fish per trip (Table 11). Success rates were better for charter angling parties; 19.8% of parties caught one or more, 7.7% caught two or more fish, and 4.3% caught at least three fish. Typically, Coho Salmon are first caught in the Lower Shore area and then later in the Upper Shore area, but this did not occur in 2022 likely due to the erratic weather and water temps throughout the summer. Anglers kept Coho Salmon that were 17.9 inches long on average (Tables 13 and 14), which is slightly smaller than average length of 18.6 inches in 2021. The average weight of fish that were harvested was less in the Lower Shore, at 1.32 pounds, than in the Upper Shore, at 2.28 (Tables 20 and 21). Coho Salmon grow larger as they move up the shoreline toward Grand Marais during the later summer months.

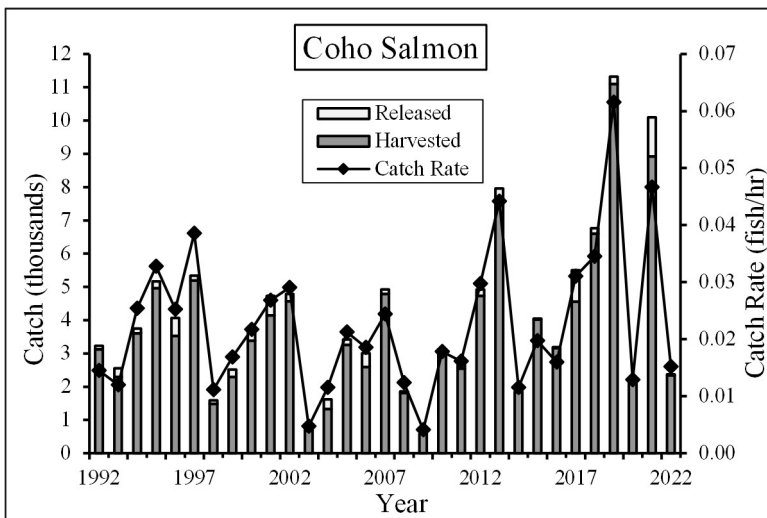


Figure 8. Coho Salmon catch and catch rate in the Minnesota waters of Lake Superior during summer creel surveys from 1992-2022.

Combined, anglers harvested 3,504 pounds of Coho Salmon in 2022 (Table 21), which is the third least in the last 10 years. The harvest of Coho Salmon has varied considerably among years (Figure 8), which reflects the naturally fluctuating year-class strength for Coho Salmon in Lake Superior. Coho Salmon were last stocked in 2006 by the Michigan DNR and last stocked in Minnesota waters in 1974; thus, all Coho Salmon caught in Lake Superior are naturally reproduced.

Chinook Salmon

Private sport anglers caught 438 and released only 9 Chinook Salmon, whereas charter anglers caught 632 and kept all but 3 fish in 2022. Overall, anglers caught 1,070 fish, which is 51% less fish than in 2021 and 63% less than the average of 2,881 fish over the previous 10 years (Table 7). Chinook Salmon accounted for 4% of all salmonines caught and 4% of all salmonines harvested much like 2021. The majority of fish, 72%, were caught in Lower Shore water (Table 7). Private sport anglers caught 0.0047 f/hr (Table 8) and charter anglers caught 0.0097 f/hr (Table 9), or 0.0068 f/h overall (Table 10), 29% lower than 2021. Among private sport parties, 4.3% caught one or more and only 0.4% caught two or more (Table 11). Success rates were higher for charter angling parties; 15.5% of parties caught at least one fish, 4.3% caught at least two fish, and 1.7% caught at least three fish.

Chartered anglers kept fish that were 23.3 inches long on average (Table 14), which is 1.3 inches higher than fish caught in 2021. Combined, anglers harvested 4,223 pounds of Chinook Salmon in 2022 (Table 21), which is 47% less than in 2021. Creel clerks examined 49 fish for stocking clips and observed no clipped fish, which indicates that Chinook Salmon stocking in other jurisdictions does not contribute significantly to the fish caught in the Minnesota waters of Lake Superior.

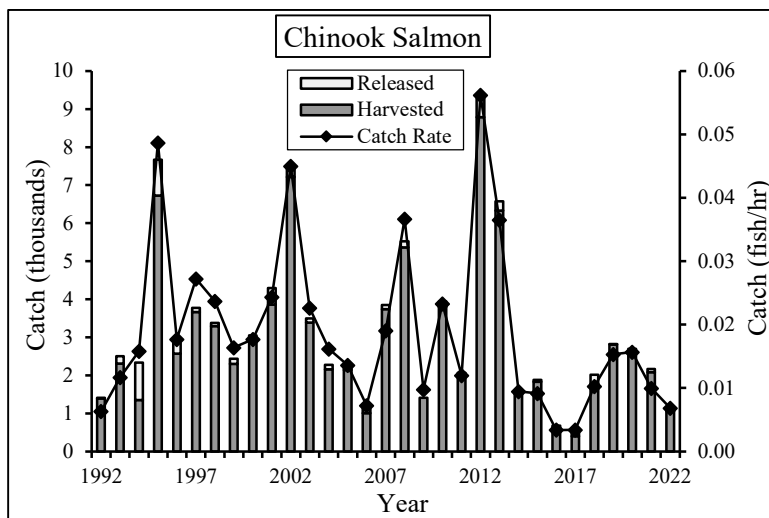


Figure 9. Chinook Salmon catch and catch rate in the Minnesota waters of Lake Superior during summer creel surveys from 1992-2022.

Steelhead Rainbow Trout

Minnesota-based anglers caught 311 steelhead Rainbow Trout in 2022, which was 69% less than in 2021 (Figure 10). Seventy-eight percent of the steelhead caught in 2022 came from the Upper Shore (Table 7). The location of highest catches changes from year to year, indicating that steelhead movement patterns vary from year to year. Anglers kept no steelhead in the summer of 2022 which is down from the 63 kept in 2021 despite the ban on harvest of unclipped steelhead in the Minnesota waters of Lake Superior. Unfortunately, there is likely some incidental take that goes undetected as anglers sometimes misidentify smaller steelhead as Coho Salmon.

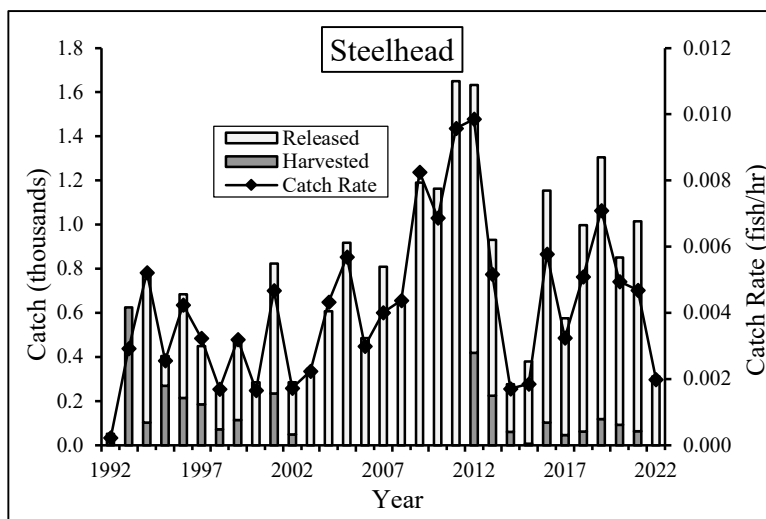


Figure 10. Steelhead Rainbow Trout catch and catch rate in the Minnesota waters of Lake Superior during summer creel surveys from 1992-2022.

Pink Salmon

Minnesota-based anglers caught 7 Pink Salmon *Oncorhynchus gorbuscha* in 2022 (Table 7). This is the lowest Pink Salmon catch since 2009 when none were reported or observed. Pink Salmon catches vary considerably through time, ranging from 0 fish in the late 1980s to the highest catch ever of 7,378 in 2021 (Figure 11). Pink Salmon reproduce naturally in Lake Superior (Schreiner et al. 2006) and the fluctuation in catch likely reflects the fluctuations in reproductive success of Pink Salmon along the North Shore.

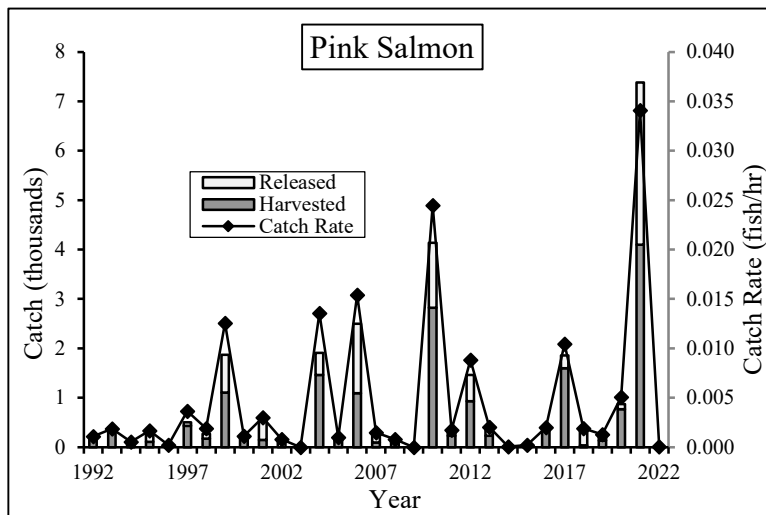


Figure 11. Pink Salmon catch and catch rate in the Minnesota waters of Lake Superior during summer creel surveys from 1992-2022.

Other Species

Anglers catch low numbers of several other fish species during the summer. Catch data for the infrequently caught salmonines were combined and reported as 143 “other salmonines” (Table 7). The combined species included 29 Brown Trout, 29 Brook Trout, and 26 Splake that were harvested and 49 Brook Trout and 10 Kamloops Rainbow Trout that were released. Anglers caught these other salmonines at a rate of 0.0009 f/h (Table 10). Walleye were the most often caught non-salmonine and 664 were kept out of the 1,057 that were caught (Table 7). The total Walleye yield was 1,084 pounds (Table 21). Anglers also caught 180 Cisco, 50 Lake Whitefish, and 29 Northern Pike in the lake.

Angler Demographics

Residence

Creel clerks ask anglers for the zip code of their primary residence, age range, and gender during each interview conducted to assess the demographics of North Shore summer anglers. Zip code data has been collected every year since 2012. Minnesota and Wisconsin accounted for 93.5% of all interviewed anglers in 2022 which is very similar to previous years (Figure 12). The anglers interviewed during the summer creel surveys have consistently and primarily resided in the zip code districts near Lake Superior and the Twin Cities. However, anglers from all around Minnesota, Wisconsin, and the country continue to fish the Minnesota waters of Lake Superior each year. This illustrates the recreational and economic value of this fishery.

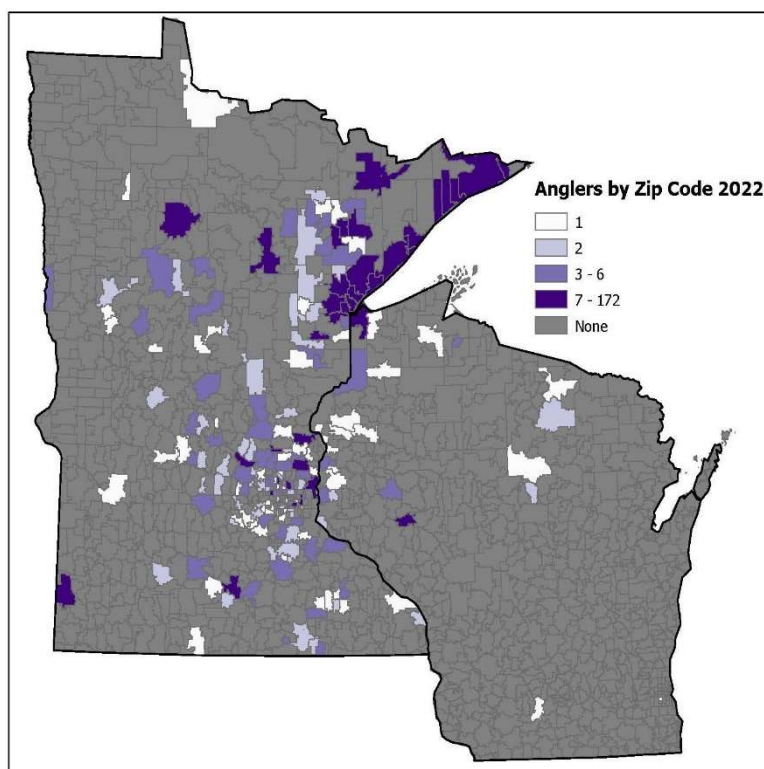


Figure 12. Zip codes of interviewed anglers from Minnesota and Wisconsin in 2022. N=1,685.

Age and Gender

Since 2012, anglers were asked to provide their age and preferred gender. The distribution of ages in 2022 was very similar to the overall trend seen through the years (Figure 13). Individuals identifying as male continue to make up the majority of anglers interviewed. Of the 1,876 anglers that answered in 2022, 84% of them identified as male and 16% as female (Figure 14). The percentage of male and female anglers have been very similar since 2012.

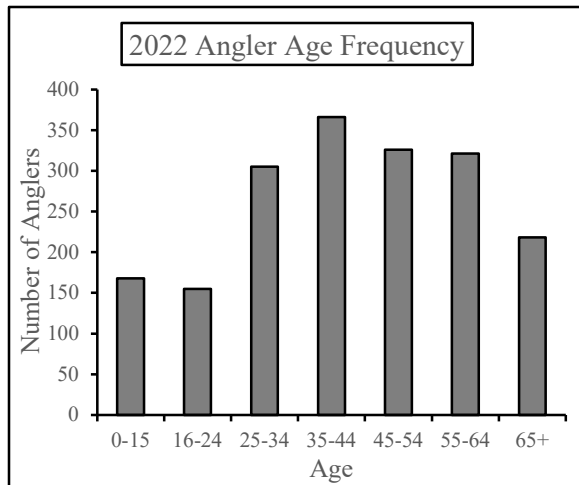


Figure 13. Age of anglers interviewed during the 2022 Lake Superior creel survey. N=1,861.

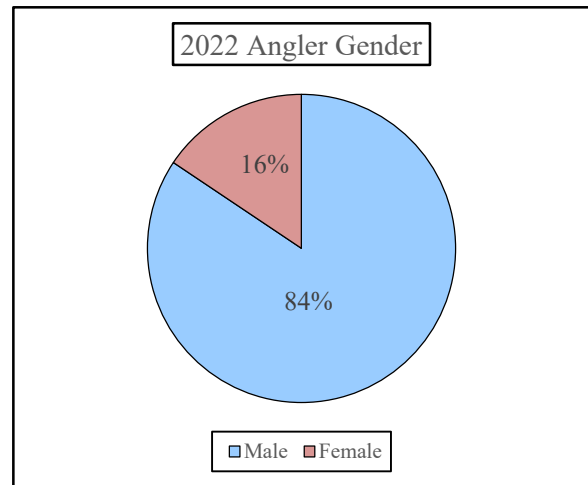


Figure 14. Gender of anglers interviewed during the 2022 Lake Superior summer creel survey. N=1,876.

Summary

The Lake Superior creel survey continues to provide essential information on the fishery in Minnesota waters of Lake Superior. This is vital to the future management of Lake Superior fish stocks and for coordinated management among Lake Superior fisheries management agencies. The summer of 2022 followed a particularly cold wet spring with high river water input that led to colder water temps later into the year. Although this inclement weather and lake conditions did decrease the overall angler catch and effort decent numbers of Lake Trout were still caught. The Lake Trout being caught in the Minnesota waters of Lake Superior are now primarily wild fish, a testament to the success of recovery efforts. This is especially true in the Upper Shore where 100% of the harvested fish were wild in 2022. The percentage of stocked Lake Trout near Duluth continues to trend downward despite continued stocking by the Wisconsin DNR.

Acknowledgements

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Study 4

Job 1165

MINNESOTA DEPARTMENT OF NATURAL RESOURCES
DIVISION OF FISH AND WILDLIFE
SECTION OF FISHERIES

COMPLETION REPORT
LAKE SUPERIOR SUMMER CREEL SURVEY
2022

by
Nathan T. Beckman
Lake Superior Fisheries Office

Approved:

Area Supervisor

Date

Approved:

Regional Fisheries Approval

Date

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Table 2. Frequency of clerk visits, number of activity counts, and interviews by cluster, day type, and angler type during the 2022 Lake Superior summer creel survey.

District ¹	Cluster ²	Day Type	Days Visited	Activity Counts	Days			Interviews		
					Boat	Shore	Charter	Boat	Shore	Charter
MN-1	1	Weekday	30	132	13	3	15	19	0	31
		Weekend	21	90	13	5	12	15	0	35
		Total	51	222	26	8	27	34	0	66
MN-1	2	Weekday	36	169	21	12	5	102	28	5
		Weekend	35	155	23	10	3	110	28	3
		Total	71	324	44	22	8	212	56	8
MN-2	3	Weekday	21	115	17	4	11	38	3	11
		Weekend	23	105	15	3	6	42	4	7
		Total	44	220	32	7	17	80	7	18
MN-3	4	Weekday	34	135	17	17	11	74	28	14
		Weekend	23	95	16	14	9	66	27	10
		Total	57	230	33	31	20	140	55	24
Lower	1 & 2	Weekday	66	301	34	15	20	121	28	36
		Weekend	56	245	36	15	15	125	28	38
		Total	122	546	70	30	35	246	56	74
Upper	3 & 4	Weekday	55	250	34	21	22	112	31	25
		Weekend	46	200	31	17	15	108	31	17
		Total	101	450	65	38	37	220	62	42
Total	All	Weekday	223	996	135	68	72	466	118	116
		Weekend	102	445	67	32	30	233	59	55
		Total	325	1441	202	100	102	699	177	171

¹ Great Lakes Fishery Commission Statistical Districts.

² Cluster 1=Duluth, Cluster 2=McQuade-Two Harbors, Cluster 3=Twin Points-Taconite Harbor, Cluster 4=Grand Marais-Hovland.

Table 3. Monthly distribution of fishing effort for private sport boat and shore anglers by cluster, station, and month as a percentage of the angler hours during the 2022 Lake Superior summer creel survey.

District ¹	Cluster ²	Station	Boat ³					Shore ⁴				
			June	July	Aug	Sept	Summer	June	July	Aug	Sept	Summer
MN-1	1	1, 2, 3	31	11	13	7.5	14.3	0	0	0	0	0
		1	0	0	0	0	0	0	0	0	0	0
		2	4	5.9	5.8	4.3	5.2	0	0	0	0	0
		3	27	5.6	7.4	3.3	9.1	0	0	0	0	0
MN-1	2	4,5,6	45	55	43	45	47.3	17	67	72	42	44.9
		4	27	24	14	12	18.4	12	8.4	3.4	22	10.9
		5	11	14	14	11	13	0	0	0	0	0
		6	7.3	17	15	22	15.9	5.6	59	69	21	34
MN-2	3	7,8,9	13	22	24	32	23.6	33	6.1	2.2	16	17.4
		7	1.4	3	4.6	5.4	3.8	31	0	0	8.2	13.1
		8	9.3	14	16	16	14.3	0	0	0	0	0
		9	2.2	5.2	3.7	11	5.5	2.7	6.1	2.2	7.9	4.3
MN-3	4	10,11	11	11	20	15	14.9	50	27	26	42	37.7
		10	8.8	9	15	13	11.9	16	27	26	16	20.4
		11	1.9	2.2	4.7	2	3	34	0	0	25	17.3
Lower	1 & 2	1-6	76	67	56	53	61.5	60	42	92	89	82.1
Upper	3 & 4	7-11	24	33	44	47	38.5	40	59	8.2	11	17.9

¹ Great Lakes Fishery Commission Statistical Districts.

² Cluster 1=Duluth, Cluster 2=McQuade-Two Harbors, Cluster 3=Twin Points-Taconite Harbor, Cluster 4=Grand Marais-Hovland.

³ Excludes charter fishing effort and includes personal charter captain's trips.

⁴ All shore fishing in Cluster 1 occurs in the St. Louis Estuary, not in Lake Superior, and is not included.

Table 4. Monthly distribution of fishing effort for charter anglers and for all anglers by cluster, station and month as a percentage of angler hours during the 2022 Lake Superior summer creel survey.

District ¹	Cluster ²	Station	Charter ³					All				
			June	July	Aug	Sept	Summer	June	July	Aug	Sept	Summer
MN-1	1	1,2,3	87	78	72	68	77.4	63	38	34	31	41
		1	53	53	43	46	49.2	31	21	15	18	21
		2	33	25	29	21	27.7	21	13	14	11	14.7
		3	0.7	0.1	0.4	1	0.5	11	3.3	4.8	2.3	5.3
MN-1	2	4,5,6	5	5.8	10	14	8.2	21	36	32	33	30.5
		4	0.2	0.4	4.8	7.1	2.7	11	15	11	10	11.6
		5	4	3.5	0.3	0.4	2.3	6.5	9.8	9.2	6.6	8.2
		6	0.8	1.9	5.3	6.2	3.2	3.4	12	12	16	10.8
MN-2	3	7,8,9	5.7	12	14	16	11.2	9.2	18	20	25	18.2
		7	1.5	3.4	5.5	6.4	3.9	2.3	3.1	4.9	5.8	4
		8	2.3	3.2	3.5	5.2	3.4	4.9	9.5	11	11	9.4
		9	1.9	5.6	4.9	3.8	3.9	2	5.4	4.1	8	4.8
MN-3	4	10,11	2.5	3.5	4	3.1	3.2	6.9	8.4	14	11	10.3
		10	2.5	3.5	4	3.1	3.2	5.3	7.1	11	9.4	8.4
		11	0	0	0	0	0	1.7	1.3	3	1.6	2
Lower	1 & 2	1-6	92	84	82	81	85.6	84	74	66	64	71.5
Upper	3 & 4	7-11	8.2	16	18	19	14.4	16	26	34	36	28.5

¹ Great Lakes Fishery Commission Statistical Districts.

² Cluster 1=Duluth, Cluster 2=McQuade-Two Harbors, Cluster 3=Twin Points-Taconite Harbor, Cluster 4=Grand Marais-Hovland.

³ Does not include charter fishing effort that was based in Wisconsin.

Table 5. Catch by species, cluster, and shore area for all private sport anglers during the 2022 Lake Superior summer creel survey. Standard error is in parenthesis.

District ¹	Cluster ²	Fate	Lake Trout	Coho Salmon	Chinook Salmon	Steelhead	Siscowet	Pink Salmon	Other ³ Salmonines	Total Salmonines	Walleye
MN-1	1	Kept	723	141	109	0	0	0	0	973	14
			(395)	(129)	(92)	0	0	0	0	(426)	(25)
		Released	134	0	0	0	0	0	0	134	18
			(110)	0	0	0	0	0	0	(110)	(13)
		Total	857	141	109	0	0	0	0	1,107	32
			(410)	(129)	(92)	0	0	0	0	(440)	(28)
MN-1	2	Kept	5,346	879	65	0	333	0	0	6,623	13
			(2,189)	(525)	(63)	0	(249)	0	0	(2,266)	(19)
		Released	1,604	20	0	30	0	0	0	1,654	0
			(910)	(26)	0	(32)	0	0	0	(911)	0
		Total	6,950	899	65	30	333	0	0	8,277	13
			(2,371)	(526)	(63)	(32)	(249)	0	0	(2,442)	(19)
MN-2	3	Kept	2,120	306	124	0	0	0	26	2,576	0
			(1,005)	(177)	(100)	0	0	0	(41)	(1,026)	0
		Released	295	0	0	102	0	0	0	397	0
			(195)	0	0	(89)	0	0	0	(214)	0
		Total	2,415	306	124	102	0	0	26	2,973	0
			(1,024)	(177)	(100)	(89)	0	0	(41)	(1,048)	0
MN-3	4	Kept	1,701	57	131	0	0	0	29	1,918	0
			(871)	(61)	(125)	0	0	0	(33)	(883)	0
		Released	505	0	9	132	0	0	49	695	0
			(413)	0	(12)	(93)	0	0	(47)	(426)	0
		Total	2,206	57	140	132	0	0	78	2,613	0
			(964)	(61)	(126)	(93)	0	0	(57)	(980)	0
Lower	1 & 2	Kept	6,069	1,020	174	0	333	0	0	7,596	27
			(2,224)	(541)	(112)	0	(249)	0	0	(2,306)	(31)
		Released	1,738	20	0	30	0	0	0	1,788	18
			(917)	(26)	0	(32)	0	0	0	(918)	(13)
		Total	7,807	1,040	174	30	333	0	0	9,384	45
			(2,406)	(541)	(112)	(32)	(249)	0	0	(2,482)	(34)
Upper	3 & 4	Kept	3,821	363	255	0	0	0	55	4,494	0
			(1,330)	(187)	(160)	0	0	0	(53)	(1,354)	0
		Released	800	0	9	234	0	0	49	1,092	0
			(457)	0	(12)	(129)	0	0	(47)	(477)	0
		Total	4,621	363	264	234	0	0	104	5,586	0
			(1,406)	(187)	(161)	(129)	0	0	(71)	(1,435)	0
Total	All	Kept	9,890	1,383	429	0	333	0	55	12,090	27
			(2,592)	(572)	(195)	0	(249)	0	(53)	(2,674)	(31)
		Released	2,538	20	9	264	0	0	49	2,880	18
			(1,024)	(26)	(12)	(133)	0	0	(47)	(1,034)	(13)
		Total	12,428	1,403	438	264	333	0	104	14,970	45
			(2,756)	(573)	(195)	(95)	(249)	0	(53)	(2,835)	(34)

¹ Great Lakes Fishery Commission Statistical Districts.

² Cluster 1=Duluth, Cluster 2=McQuade-Two Harbors, Cluster 3=Twin Points-Taconite Harbor, Cluster 4=Grand Marais-Hovland.

³ Includes 26 kept Splake, 29 kept Brook Trout, and 49 released Brook Trout.

Table 6. Catch¹ by species, cluster, and shore area for chartered anglers¹ during the 2022 Lake Superior summer creel survey. Standard error is 0 for all values.

District ²	Cluster ³	Fate	Lake Trout	Coho Salmon	Chinook Salmon	Steelhead	Siscowet	Pink Salmon	Other ⁴ Salmonines	Total Salmonines	Walleye
MN-1	1	Kept	7,434	888	589	0	813	4	29	9,757	636
		Released	147	3	2	36	0	0	8	196	375
		Total	7,581	891	591	36	813	4	37	9,953	1,011
MN-1	2	Kept	704	21	13	0	29	0	0	767	1
		Released	197	0	0	1	0	0	2	200	0
		Total	901	21	13	1	29	0	2	967	1
MN-2	3	Kept	1,565	39	12	0	0	2	0	1,618	0
		Released	272	0	1	9	0	1	0	283	0
		Total	1,837	39	13	9	0	3	0	1,901	0
MN-3	4	Kept	602	16	15	0	11	0	0	644	0
		Released	31	0	0	1	0	0	0	32	0
		Total	633	16	15	1	11	0	0	676	0
Lower	1 & 2	Kept	8,138	909	602	0	842	4	29	10,524	637
		Released	344	3	2	37	0	0	10	396	375
		Total	8,482	912	604	37	842	4	39	10,920	1,012
Upper	3 & 4	Kept	2,167	55	27	0	11	2	0	2,262	0
		Released	303	0	1	10	0	1	0	315	0
		Total	2,470	55	28	10	11	3	0	2,577	0
Total	All	Kept	10,305	964	629	0	853	6	29	12,786	637
		Released	647	3	3	47	0	1	10	711	375
		Total	10,952	967	632	47	853	7	39	13,497	1,012

¹ The Minnesota results include all charter fishing in the Minnesota waters of Lake Superior, including trips that originated from Wisconsin.

² Great Lakes Fishery Commission Statistical Districts.

³ Cluster 1=Duluth, Cluster 2=McQuade-Two Harbors, Cluster 3=Twin Points-Taconite Harbor, Cluster 4=Grand Marais-Hovland.

⁴ Includes 29 kept Brown Trout, 8 kept Kamloops, and 2 released Kamloops.

Table 7. Catch¹ by species, cluster, and shore area for all anglers during the 2022 Lake Superior summer creel survey. Standard error is in parenthesis.

District ²	Cluster ³	Fate	Lake Trout	Coho Salmon	Chinook Salmon	Steelhead	Siscowet	Pink	Other ⁴ Salmonines	Total Salmonines	Walleye
MN-1	1	Kept	8,157	1,029	698	0	813	4	29	10,730	650
			(395)	(129)	(92)	0	0	0	0	(426)	(25)
		Released	281	3	2	36	0	0	8	330	393
			(110)	0	0	0	0	0	0	(110)	(13)
		Total	8,438	1,032	700	36	813	4	37	11,060	1,043
			(410)	(129)	(92)	0	0	0	0	(440)	(28)
MN-1	2	Kept	6,050	900	78	0	362	0	0	7,390	14
			(2,189)	(525)	(63)	0	(249)	0	0	(2,266)	(19)
		Released	1,801	20	0	31	0	0	2	1,854	0
			(910)	(26)	0	(32)	0	0	0	(911)	0
		Total	7,851	920	78	31	362	0	2	9,244	14
			(2,371)	(526)	(63)	(32)	(249)	0	0	(2,442)	(19)
MN-2	3	Kept	3,685	345	136	0	0	2	26	4,194	0
			(1,005)	(177)	(100)	0	0	0	(41)	(1,026)	0
		Released	567	0	1	111	0	1	0	680	0
			(195)	0	0	(89)	0	0	0	(214)	0
		Total	4,252	345	137	111	0	3	26	4,874	0
			(1,024)	(177)	(100)	(89)	0	0	(41)	(1,048)	0
MN-3	4	Kept	2,303	73	146	0	11	0	29	2,562	0
			(871)	(61)	(125)	0	0	0	(33)	(883)	0
		Released	536	0	9	133	0	0	49	727	0
			(413)	0	(12)	(93)	0	0	(47)	(426)	0
		Total	2,839	73	155	133	11	0	78	3,289	0
			(964)	(61)	(126)	(93)	0	0	(57)	(980)	0
Lower	1 & 2	Kept	14,207	1,929	776	0	1,175	4	29	18,120	664
			(2,224)	(541)	(112)	0	(249)	0	0	(2,306)	(31)
		Released	2,082	23	2	67	0	0	10	2,184	393
			(917)	(26)	0	(32)	0	0	0	(918)	(13)
		Total	16,289	1,952	778	67	1,175	4	39	20,304	1,057
			(2,406)	(541)	(112)	(32)	(249)	0	0	(2,482)	(34)
Upper	3 & 4	Kept	5,988	418	282	0	11	2	55	6,756	0
			(1,330)	(187)	(160)	0	0	0	(53)	(1,354)	0
		Released	1,103	0	10	244	0	1	49	1,407	0
			(457)	0	(12)	(129)	0	0	(47)	(477)	0
		Total	7,091	418	292	244	11	3	104	8,163	0
			(1,406)	(187)	(161)	(129)	0	0	(71)	(1,435)	0
Total	All	Kept	20,195	2,347	1,058	0	1,186	6	84	24,876	664
			(2,592)	(572)	(195)	0	(249)	0	(53)	(2,674)	(31)
		Released	3,185	23	12	311	0	1	59	3,591	393
			(1,024)	(26)	(12)	(133)	0	0	(47)	(1,034)	(13)
		Total	23,380	2,370	1,070	311	1,186	7	143	28,467	1,057
			(2,756)	(573)	(195)	(95)	(249)	0	(53)	(2,835)	(34)

¹ The Minnesota results include all charter fishing and excludes Wisconsin-based private sport anglers.

² Great Lakes Fishery Commission Statistical Districts.

³ Cluster 1=Duluth, Cluster 2=McQuade-Two Harbors, Cluster 3=Twin Points-Taconite Harbor, Cluster 4=Grand Marais-Hovland.

⁴ Includes 78 Brook Trout, 29 Brown Trout, 26 Splake, and 10 Kamloops Rainbow Trout.

Table 8. Catch rate (fish/hr) by species, cluster, and shore area for private sport boat and shore anglers during the 2022 Lake Superior summer creel survey. Standard error is in parenthesis.

District ¹	Cluster ²	Fate	Lake Trout	Coho Salmon	Chinook Salmon	Steelhead	Siscowet	Pink Salmon	Other ³ Salmonines	Total Salmonines	Walleye
MN-1	1	Kept	0.0569 (0.0322)	0.0111 (0.0103)	0.0086 (0.0073)	0.0000 (0.0000)	0.0000 (0.0000)	0.0000 (0.0000)	0.0000 (0.0000)	0.0766 (0.0353)	0.0011 (0.0020)
		Released	0.0105 (0.0088)	0.0000 (0.0000)	0.0000 (0.0000)	0.0000 (0.0000)	0.0000 (0.0000)	0.0000 (0.0000)	0.0000 (0.0000)	0.0105 (0.0088)	0.0014 (0.0010)
		Total	0.0674 (0.0334)	0.0111 (0.0103)	0.0086 (0.0073)	0.0000 (0.0000)	0.0000 (0.0000)	0.0000 (0.0000)	0.0000 (0.0000)	0.0871 (0.0364)	0.0025 (0.0022)
	2	Kept	0.1222 (0.0524)	0.0201 (0.0123)	0.0015 (0.0015)	0.0000 (0.0000)	0.0076 (0.0076)	0.0000 (0.0000)	0.0000 (0.0000)	0.1513 (0.0552)	0.0003 (0.0004)
		Released	0.0367 (0.0213)	0.0005 (0.0006)	0.0000 (0.0000)	0.0007 (0.0007)	0.0000 (0.0000)	0.0000 (0.0000)	0.0000 (0.0000)	0.0378 (0.0214)	0.0000 (0.0000)
		Total	0.1588 (0.0566)	0.0205 (0.0123)	0.0015 (0.0015)	0.0007 (0.0007)	0.0076 (0.0076)	0.0000 (0.0000)	0.0000 (0.0000)	0.1891 (0.0592)	0.0003 (0.0004)
MN-2	3	Kept	0.0986 (0.0490)	0.0142 (0.0085)	0.0058 (0.0047)	0.0000 (0.0000)	0.0000 (0.0000)	0.0000 (0.0000)	0.0012 (0.0019)	0.1198 (0.0510)	0.0000 (0.0000)
		Released	0.0137 (0.0093)	0.0000 (0.0000)	0.0000 (0.0000)	0.0047 (0.0042)	0.0000 (0.0000)	0.0000 (0.0000)	0.0000 (0.0000)	0.0185 (0.0104)	0.0000 (0.0000)
		Total	0.1124 (0.0499)	0.0142 (0.0085)	0.0058 (0.0047)	0.0047 (0.0042)	0.0000 (0.0000)	0.0000 (0.0000)	0.0012 (0.0019)	0.1383 (0.0520)	0.0000 (0.0000)
	4	Kept	0.1187 (0.0636)	0.0040 (0.0043)	0.0091 (0.0089)	0.0000 (0.0000)	0.0000 (0.0000)	0.0000 (0.0000)	0.0020 (0.0023)	0.1338 (0.0651)	0.0000 (0.0000)
		Released	0.0352 (0.0293)	0.0000 (0.0000)	0.0006 (0.0009)	0.0092 (0.0067)	0.0000 (0.0000)	0.0000 (0.0000)	0.0034 (0.0033)	0.0485 (0.0307)	0.0000 (0.0000)
		Total	0.1539 (0.0700)	0.0040 (0.0043)	0.0098 (0.0089)	0.0092 (0.0067)	0.0000 (0.0000)	0.0000 (0.0000)	0.0054 (0.0040)	0.1823 (0.0720)	0.0000 (0.0000)
Lower	1 & 2	Kept	0.1075 (0.0409)	0.0181 (0.0098)	0.0031 (0.0020)	0.0000 (0.0000)	0.0059 (0.0059)	0.0000 (0.0000)	0.0000 (0.0000)	0.1345 (0.0436)	0.0005 (0.0006)
		Released	0.0308 (0.0165)	0.0004 (0.0005)	0.0000 (0.0000)	0.0005 (0.0006)	0.0000 (0.0000)	0.0000 (0.0000)	0.0000 (0.0000)	0.0317 (0.0173)	0.0003 (0.0002)
		Total	0.1382 (0.0441)	0.0184 (0.0098)	0.0031 (0.0020)	0.0005 (0.0006)	0.0059 (0.0059)	0.0000 (0.0000)	0.0000 (0.0000)	0.1662 (0.0469)	0.0008 (0.0006)
	3 & 4	Kept	0.1067 (0.0389)	0.0101 (0.0053)	0.0071 (0.0046)	0.0000 (0.0000)	0.0000 (0.0000)	0.0000 (0.0000)	0.0015 (0.0015)	0.1254 (0.0400)	0.0000 (0.0000)
		Released	0.0223 (0.0130)	0.0000 (0.0000)	0.0003 (0.0003)	0.0065 (0.0037)	0.0000 (0.0000)	0.0000 (0.0000)	0.0014 (0.0013)	0.0305 (0.0141)	0.0000 (0.0000)
		Total	0.1290 (0.0410)	0.0101 (0.0053)	0.0074 (0.0046)	0.0065 (0.0037)	0.0000 (0.0000)	0.0000 (0.0000)	0.0029 (0.0020)	0.1559 (0.0424)	0.0000 (0.0000)
Upper	3 & 4	Kept	0.1067 (0.0389)	0.0101 (0.0053)	0.0071 (0.0046)	0.0000 (0.0000)	0.0000 (0.0000)	0.0000 (0.0000)	0.0015 (0.0015)	0.1254 (0.0400)	0.0000 (0.0000)
		Released	0.0223 (0.0130)	0.0000 (0.0000)	0.0003 (0.0003)	0.0065 (0.0037)	0.0000 (0.0000)	0.0000 (0.0000)	0.0014 (0.0013)	0.0305 (0.0141)	0.0000 (0.0000)
		Total	0.1290 (0.0410)	0.0101 (0.0053)	0.0074 (0.0046)	0.0065 (0.0037)	0.0000 (0.0000)	0.0000 (0.0000)	0.0029 (0.0020)	0.1559 (0.0424)	0.0000 (0.0000)
	All	Kept	0.1072 (0.0293)	0.0150 (0.0063)	0.0046 (0.0021)	0.0000 (0.0000)	0.0036 (0.0027)	0.0000 (0.0000)	0.0006 (0.0006)	0.1310 (0.0307)	0.0003 (0.0003)
		Released	0.0275 (0.0113)	0.0002 (0.0003)	0.0001 (0.0001)	0.0029 (0.0015)	0.0000 (0.0000)	0.0000 (0.0000)	0.0005 (0.0005)	0.0312 (0.0115)	0.0002 (0.0001)
		Total	0.1347 (0.0314)	0.0152 (0.0063)	0.0047 (0.0021)	0.0029 (0.0015)	0.0036 (0.0027)	0.0000 (0.0000)	0.0011 (0.0008)	0.1622 (0.0328)	0.0005 (0.0003)

¹ Great Lakes Fishery Commission Statistical Districts.

² Cluster 1=Duluth, Cluster 2=McQuade-Two Harbors, Cluster 3=Twin Points-Taconite Harbor, Cluster 4=Grand Marais-Hovland.

³ Includes 26 kept Splake, 29 kept Brook Trout, and 49 released Brook Trout.

Table 9. Catch rate (fish/hr) by species, cluster, and shore area for charter anglers during the 2022 Lake Superior summer creel survey. Standard error is 0 for all values.

District ¹	Cluster ²	Fate	Lake Trout	Coho Salmon	Chinook Salmon	Steelhead	Siscowet	Pink Salmon	Other ³ Salmonines	Total Salmonines	Walleye
MN-1	1	Kept	0.1406	0.0168	0.0111	0.0000	0.0154	0.0001	0.0005	0.1845	0.0120
		Released	0.0028	0.0001	0.0000	0.0007	0.0000	0.0000	0.0002	0.0037	0.0071
		Total	0.1434	0.0168	0.0112	0.0007	0.0154	0.0001	0.0007	0.1882	0.0191
MN-1	2	Kept	0.1859	0.0055	0.0034	0.0000	0.0077	0.0000	0.0000	0.2025	0.0003
		Released	0.0520	0.0000	0.0000	0.0003	0.0000	0.0000	0.0005	0.0528	0.0000
		Total	0.2379	0.0055	0.0034	0.0003	0.0077	0.0000	0.0005	0.2553	0.0003
MN-2	3	Kept	0.3018	0.0075	0.0023	0.0000	0.0000	0.0004	0.0000	0.3120	0.0000
		Released	0.0524	0.0000	0.0002	0.0017	0.0000	0.0002	0.0000	0.0546	0.0000
		Total	0.3542	0.0075	0.0025	0.0017	0.0000	0.0006	0.0000	0.3666	0.0000
MN-3	4	Kept	0.2707	0.0072	0.0067	0.0000	0.0049	0.0000	0.0000	0.2896	0.0000
		Released	0.0139	0.0000	0.0000	0.0004	0.0000	0.0000	0.0000	0.0144	0.0000
		Total	0.2846	0.0072	0.0067	0.0004	0.0049	0.0000	0.0000	0.3040	0.0000
Lower	1 & 2	Kept	0.1436	0.0160	0.0106	0.0000	0.0149	0.0001	0.0005	0.1857	0.0112
		Released	0.0061	0.0001	0.0000	0.0007	0.0000	0.0000	0.0002	0.0070	0.0066
		Total	0.1497	0.0161	0.0107	0.0007	0.0149	0.0001	0.0007	0.1927	0.0179
Upper	3 & 4	Kept	0.2924	0.0074	0.0036	0.0000	0.0015	0.0003	0.0000	0.3053	0.0000
		Released	0.0409	0.0000	0.0001	0.0013	0.0000	0.0001	0.0000	0.0425	0.0000
		Total	0.3333	0.0074	0.0038	0.0013	0.0015	0.0004	0.0000	0.3478	0.0000
Total	All	Kept	0.1608	0.0150	0.0098	0.0000	0.0133	0.0001	0.0005	0.1995	0.0099
		Released	0.0101	0.0000	0.0000	0.0007	0.0000	0.0000	0.0002	0.0111	0.0059
		Total	0.1709	0.0151	0.0099	0.0007	0.0133	0.0001	0.0006	0.2106	0.0158

¹ Great Lakes Fishery Commission Statistical Districts.

² Cluster 1=Duluth, Cluster 2=McQuade-Two Harbors, Cluster 3=Twin Points-Taconite Harbor, Cluster 4=Grand Marais-Hovland.

³ Includes 29 kept Brown Trout, 8 kept Kamloops, and 2 released Kamloops.

Table 10. Catch rate (fish/hr) by species, cluster, and shore area for all anglers during the 2022 Lake Superior summer creel survey. Standard error is in parenthesis.

District ¹	Cluster ²	Fate	Lake Trout	Coho Salmon	Chinook Salmon	Steelhead	Siscowet	Pink Salmon	Other ³ Salmonines	Total Salmonines	Walleye
MN-1	1	Kept	0.1244	0.0157	0.0106	0.0000	0.0124	0.0001	0.0004	0.1636	0.0099
			(0.0322)	(0.0103)	(0.0073)	0.0000	0.0000	0.0000	0.0000	(0.0353)	(0.0020)
		Released	0.0043	0.0000	0.0000	0.0005	0.0000	0.0000	0.0001	0.0050	0.0060
			(0.0088)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	(0.0088)	(0.0010)
		Total	0.1286	0.0157	0.0107	0.0005	0.0124	0.0001	0.0006	0.1686	0.0159
MN-1	2	Kept	0.1272	0.0189	0.0016	0.0000	0.0076	0.0000	0.0000	0.1554	0.0003
			(0.0524)	(0.0123)	(0.0015)	0.0000	(0.0076)	0.0000	0.0000	(0.0552)	(0.0004)
		Released	0.0379	0.0004	0.0000	0.0007	0.0000	0.0000	0.0000	0.0390	0.0000
			(0.0213)	(0.0006)	0.0000	(0.0007)	0.0000	0.0000	0.0000	(0.0214)	0.0000
		Total	0.1651	0.0193	0.0016	0.0007	0.0076	0.0000	0.0000	0.1944	0.0003
MN-2	3	Kept	0.1381	0.0129	0.0051	0.0000	0.0000	0.0001	0.0010	0.1572	0.0000
			(0.0490)	(0.0085)	(0.0047)	0.0000	0.0000	0.0000	(0.0019)	(0.0510)	0.0000
		Released	0.0213	0.0000	0.0000	0.0042	0.0000	0.0000	0.0000	0.0255	0.0000
			(0.0093)	0.0000	0.0000	(0.0042)	0.0000	0.0000	0.0000	(0.0104)	0.0000
		Total	0.1594	0.0129	0.0051	0.0042	0.0000	0.0001	0.0010	0.1827	0.0000
MN-3	4	Kept	0.1607	0.0051	0.0102	0.0000	0.0008	0.0000	0.0020	0.1788	0.0000
			(0.0636)	(0.0043)	(0.0089)	0.0000	0.0000	0.0000	(0.0023)	(0.0651)	0.0000
		Released	0.0374	0.0000	0.0006	0.0093	0.0000	0.0000	0.0034	0.0507	0.0000
			(0.0293)	0.0000	(0.0009)	(0.0067)	0.0000	0.0000	(0.0033)	(0.0307)	0.0000
		Total	0.1981	0.0051	0.0108	0.0093	0.0008	0.0000	0.0054	0.2295	0.0000
Lower	1 & 2	Kept	0.1256	0.0170	0.0069	0.0000	0.0104	0.0000	0.0003	0.1602	0.0059
			(0.0409)	(0.0098)	(0.0020)	0.0000	(0.0059)	0.0000	0.0000	(0.0436)	(0.0006)
		Released	0.0184	0.0002	0.0000	0.0006	0.0000	0.0000	0.0001	0.0193	0.0035
			(0.0165)	(0.0005)	0.0000	(0.0006)	0.0000	0.0000	0.0000	(0.0173)	(0.0002)
		Total	0.1440	0.0173	0.0069	0.0006	0.0104	0.0000	0.0003	0.1795	0.0093
Upper	3 & 4	Kept	0.1385	0.0097	0.0065	0.0000	0.0003	0.0000	0.0013	0.1563	0.0000
			(0.0389)	(0.0053)	(0.0046)	0.0000	0.0000	0.0000	(0.0015)	(0.0400)	0.0000
		Released	0.0255	0.0000	0.0002	0.0056	0.0000	0.0000	0.0011	0.0325	0.0000
			(0.0130)	0.0000	(0.0003)	(0.0037)	0.0000	0.0000	(0.0013)	(0.0141)	0.0000
		Total	0.1640	0.0097	0.0068	0.0056	0.0003	0.0001	0.0024	0.1888	0.0000
Total	All	Kept	0.1291	0.0150	0.0068	0.0000	0.0076	0.0000	0.0005	0.1591	0.0042
			(0.0293)	(0.0063)	(0.0021)	0.0000	(0.0027)	0.0000	(0.0006)	(0.0307)	(0.0003)
		Released	0.0204	0.0001	0.0001	0.0020	0.0000	0.0000	0.0004	0.0230	0.0025
			(0.0113)	(0.0003)	(0.0001)	(0.0015)	0.0000	0.0000	(0.0005)	(0.0115)	(0.0001)
		Total	0.1495	0.0152	0.0068	0.0020	0.0076	0.0000	0.0009	0.1820	0.0068
Total	All	Kept	0.1291	0.0150	0.0068	0.0000	0.0076	0.0000	0.0005	0.1591	0.0042
			(0.0293)	(0.0063)	(0.0021)	0.0000	(0.0027)	0.0000	(0.0006)	(0.0307)	(0.0003)
		Released	0.0204	0.0001	0.0001	0.0020	0.0000	0.0000	0.0004	0.0230	0.0025
			(0.0113)	(0.0003)	(0.0001)	(0.0015)	0.0000	0.0000	(0.0005)	(0.0115)	(0.0001)
		Total	0.1495	0.0152	0.0068	0.0020	0.0076	0.0000	0.0009	0.1820	0.0068
Total	All	Kept	0.1291	0.0150	0.0068	0.0000	0.0076	0.0000	0.0005	0.1591	0.0042
			(0.0293)	(0.0063)	(0.0021)	0.0000	(0.0027)	0.0000	(0.0006)	(0.0307)	(0.0003)
		Released	0.0204	0.0001	0.0001	0.0020	0.0000	0.0000	0.0004	0.0230	0.0025
			(0.0113)	(0.0003)	(0.0001)	(0.0015)	0.0000	0.0000	(0.0005)	(0.0115)	(0.0001)
		Total	0.1495	0.0152	0.0068	0.0020	0.0076	0.0000	0.0009	0.1820	0.0068
Total	All	Kept	0.1291	0.0150	0.0068	0.0000	0.0076	0.0000	0.0005	0.1591	0.0042
			(0.0293)	(0.0063)	(0.0021)	0.0000	(0.0027)	0.0000	(0.0006)	(0.0307)	(0.0003)
		Released	0.0204	0.0001	0.0001	0.0020	0.0000	0.0000	0.0004	0.0230	0.0025
			(0.0113)	(0.0003)	(0.0001)	(0.0015)	0.0000	0.0000	(0.0005)	(0.0115)	(0.0001)
		Total	0.1495	0.0152	0.0068	0.0020	0.0076	0.0000	0.0009	0.1820	0.0068
Total	All	Kept	0.1291	0.0150	0.0068	0.0000	0.0076	0.0000	0.0005	0.1591	0.0042
			(0.0293)	(0.0063)	(0.0021)	0.0000	(0.0027)	0.0000	(0.0006)	(0.0307)	(0.0003)
		Released	0.0204	0.0001	0.0001	0.0020	0.0000	0.0000	0.0004	0.0230	0.0025
			(0.0113)	(0.0003)	(0.0001)	(0.0015)	0.0000	0.0000	(0.0005)	(0.0115)	(0.0001)
		Total	0.1495	0.0152	0.0068	0.0020	0.0076	0.0000	0.0009	0.1820	0.0068
Total	All	Kept	0.1291	0.0150	0.0068	0.0000	0.0076	0.0000	0.0005	0.1591	0.0042
			(0.0293)	(0.0063)	(0.0021)	0.0000	(0.0027)	0.0000	(0.0006)	(0.0307)	(0.0003)
		Released	0.0204	0.0001	0.0001	0.0020	0.0000	0.0000	0.0004	0.0230	0.0025
			(0.0113)	(0.0003)	(0.0001)	(0.0015)	0.0000	0.0000	(0.0005)	(0.0115)	(0.0001)
		Total	0.1495	0.0152	0.0068	0.0020	0.0076	0.0000	0.0009	0.1820	0.0068
Total	All	Kept	0.1291	0.0150	0.0068	0.0000	0.0076	0.0000	0.0005	0.1591	0.0042
			(0.0293)	(0.0063)	(0.0021)	0.0000	(0.0027)	0.0000	(0.0006)	(0.0307)	(0.0003)
		Released	0.0204	0.0001	0.0001	0.0020	0.0000	0.0000	0.0004	0.0230	0.0025
			(0.0113)	(0.0003)	(0.0001)	(0.0015)	0.0000	0.0000	(0.0005)	(0.0115)	(0.0001)
		Total	0.1495	0.0152	0.0068	0.0020	0.0076	0.0000	0.0009	0.1820	0.0068

¹ Great Lakes Fishery Commission Statistical Districts.

² Cluster 1=Duluth, Cluster 2=McQuade-Two Harbors, Cluster 3=Twin Points-Taconite Harbor, Cluster 4=Grand Marais-Hovland.

³ Includes 78 Brook Trout, 29 Brown Trout, 26 Splake, and 10 Kamloops Rainbow Trout.

Table 11. Percent of private sport angling parties, by angler type, that caught specific numbers of fish during the 2022 Lake Superior summer creel survey.

Number Caught	Lake Trout		Coho Salmon		Chinook Salmon		Steelhead		Siscowet		Pink Salmon		Total Salmonines	
	Boat	Shore	Boat	Shore	Boat	Shore	Boat	Shore	Boat	Shore	Boat	Shore	Boat	Shore
0	44	98.1	92	100	96	100	98	98.1	99	100	100	100	49	92.4
1	17	1.9	4.8	0	3.9	0	2	0	0.9	0	0	0	17	3.8
2	11	0	1.3	0	0.4	0	0	0	0.4	0	0	0	11	0
3	7	0	1.5	0	0	0	0	1.9	0.2	0	0	0	9.8	3.8
4	3.1	0	0.4	0	0	0	0	0	0	0	0	0	2.6	0
5	2	0	0	0	0	0	0	0	0	0	0	0	3.1	0
6	1.7	0	0	0	0	0	0	0	0	0	0	0	2.6	0
7	2	0	0	0	0	0	0	0	0	0	0	0	2	0
8	0.4	0	0	0	0	0	0	0	0	0	0	0	0.9	0
9	0.4	0	0	0	0	0	0	0	0	0	0	0	0.7	0
10	0.4	0	0	0	0	0	0	0	0	0	0	0	0.2	0
11	0.4	0	0	0	0	0	0	0	0	0	0	0	0.4	0
>=12	0.2	0	0	0	0	0	0	0	0	0	0	0	0.4	0

Table 12. Percent of chartered angling parties that caught specific numbers of fish during the 2022 Lake Superior summer creel survey.

Number Caught	Lake Trout		Coho Salmon		Chinook Salmon		Steelhead		Siscowet		Pink Salmon		Other Salmonines		Total Salmonines	
	Boat	Shore	Boat	Shore	Boat	Shore	Boat	Shore	Boat	Shore	Boat	Shore	Boat	Shore	Boat	Shore
0	13.7		80.2		84.5		98.3		82.8		100		99.1		8.6	
1	10.3		12.1		11.2		1.7		10.3		0		0.9		10.3	
2	12.1		3.4		2.6		0		3.4		0		0		7.8	
3	12.1		2.6		0		0		2.6		0		0		12.9	
4	16.4		1.7		1.7		0		0		0		0		11.2	
5	9.5		0		0		0		0		0		0		12.1	
6	4.3		0		0		0		0		0		0		6	
7	5.2		0		0		0		0.9		0		0		11.2	
8	2.6		0		0		0		0		0		0		2.6	
9	3.4		0		0		0		0		0		0		2.6	
10	2.6		0		0		0		0		0		0		2.6	
11	0.9		0		0		0		0		0		0		3.4	
>=12	6.9		0		0		0		0		0		0		8.7	

Table 13. Length-frequency distribution (in) and sample size of harvested salmonines by private sport boat and shore anglers during the 2022 Lake Superior summer creel survey.

Length (in)	Lake Trout	Coho Salmon	Chinook Salmon	Kamloops	Steelhead	Siscowet	Pink Salmon
<13.5							
13.5 to 14.4	1	1					
14.5 to 15.4	2	1					
15.5 to 16.4	15	5					
16.5 to 17.4	44	20					
17.5 to 18.4	46	9					
18.5 to 19.4	46	10				1	
19.5 to 20.4	69	11	2			1	
20.5 to 21.4	58	5	3			2	
21.5 to 22.4	62	2	2			4	
22.5 to 23.4	36					2	
23.5 to 24.4	38		7			1	
24.5 to 25.4	20		3				
25.5 to 26.4	13		2				
26.5 to 27.4	11		3				
27.5 to 28.4	7						
28.5 to 29.4	1						
29.5 to 30.4	5						
30.5 to 31.4							
31.5 to 32.4							
32.5 to 33.4							
33.5 to 34.4	1						
34.5 to 35.4	1						
35.5 to 36.4	1						
>36.4							
Average	21	18.2	23.7	0	0	21.5	0
Sample Size	477	64	22	0	0	11	0

Table 14. Length-frequency distribution (in) and sample size of harvested salmonines by charter anglers¹ during the 2022 Lake Superior summer creel survey.

Length (in)	Lake Trout	Coho Salmon	Chinook Salmon	Kamloops	Steelhead	Siscowet	Pink Salmon
<13.5							
13.5 to 14.4	1						
14.5 to 15.4	3	1					
15.5 to 16.4	11	12					
16.5 to 17.4	38	11				1	
17.5 to 18.4	56	5	1			1	
18.5 to 19.4	52	3	1			2	
19.5 to 20.4	55	3	4			7	
20.5 to 21.4	54	2	5			7	
21.5 to 22.4	56	2	3			8	
22.5 to 23.4	37		2			5	
23.5 to 24.4	32		2			1	
24.5 to 25.4	21		1			2	
25.5 to 26.4	17		2				
26.5 to 27.4	8		4				
27.5 to 28.4	7						
28.5 to 29.4	2		2				
29.5 to 30.4	2						
30.5 to 31.4							
31.5 to 32.4	1						
32.5 to 33.4	1						
33.5 to 34.4	1						
34.5 to 35.4	1						
>35.4							
Average	21	17.5	23	0	0	21.3	0
Sample Size	456	39	27	0	0	34	0

¹Includes clients of chartered boat trips and excludes personal trips by licensed charter captains.

Table 15. Length-frequency distribution (in) and sample size of released salmonines by private sport boat and shore anglers during the 2022 Lake Superior summer creel survey.

Length (in)	Lake Trout	Coho Salmon	Chinook Salmon	Kamloops	Steelhead	Siscowet	Pink Salmon	Brook Trout
<9.5								
9.5 to 10.4								2
10.5 to 11.4	1							
11.5 to 12.4	3							2
12.5 to 13.4								
13.5 to 14.4	4							2
14.5 to 15.4	2							
15.5 to 16.4	11	1			1			
16.5 to 17.4	15							
17.5 to 18.4	18							
18.5 to 19.4	4							
19.5 to 20.4	15				2			
20.5 to 21.4	5				1			
21.5 to 22.4	15				1			
22.5 to 23.4	4							
23.5 to 24.4	8							
24.5 to 25.4	1		1		4			
25.5 to 26.4	2				1			
26.5 to 27.4	1				4			
27.5 to 28.4					1			
28.5 to 29.4	1							
29.5 to 30.4	1							
30.5 to 31.4	1							
31.5 to 32.4	1							
32.5 to 33.4	1							
33.5 to 34.4								
34.5 to 35.4	1							
35.5 to 36.4								
36.5 to 37.4								
37.5 to 38.4	2							
38.5 to 39.4								
39.5 to 40.4	1							
>40.4								
Average	20.3	16	25	0	24.1	0	0	12
Sample Size	118	1	1	0	15	0	0	6

Table 16. Length-frequency distribution (in) and sample size of released salmonines by charter anglers¹ during the 2022 Lake Superior summer creel survey.

Length (in)	Lake Trout	Coho Salmon	Chinook Salmon	Kamloops	Steelhead	Siscowet	Pink Salmon
<9.5							
9.5 to 10.4	1						
10.5 to 11.4							
11.5 to 12.4							
12.5 to 13.4	1						
13.5 to 14.4	2						
14.5 to 15.4	2						
15.5 to 16.4	6						
16.5 to 17.4	5						
17.5 to 18.4	1					1	
18.5 to 19.4							
19.5 to 20.4							
20.5 to 21.4							
21.5 to 22.4							
22.5 to 23.4							
23.5 to 24.4	1						
24.5 to 25.4	10				1		
25.5 to 26.4					1		
26.5 to 27.4							
27.5 to 28.4							
28.5 to 29.4	1						
29.5 to 30.4						1	
30.5 to 31.4	1						
31.5 to 32.4							
32.5 to 33.4							
33.5 to 34.4							
34.5 to 35.4	1						
35.5 to 36.4	1						
>36.4							
Average	20.8	0	0	0	25.5	24	0
Sample Size	33	0	0	0	2	2	0

¹ Includes clients of chartered boat trips and excludes personal trips by licensed charter captains.

Table 17. Average weight¹ (lbs) of harvested fish by species, cluster, and shore area for private boat and shore anglers in the 2022 Lake Superior summer creel survey. Standard error is in parentheses.

District ³	Cluster ⁴	Lake Trout	Coho Salmon	Chinook Salmon	Steelhead	Siscowet	Pink Salmon	Walleye
MN-1	1	2.68 (2.10)	1.41 (1.86)	3.59 (4.29)	0.00 0.00	0.00 0.00	0.00 0.00	3.77 (7.00)
MN-1	2	2.87 (1.69)	1.45 (1.23)	3.59 (4.93)	0.00 0.00	2.64 (2.82)	0.00 0.00	3.77 (5.94)
MN-2	3	2.90 (2.05)	2.27 (1.87)	4.51 (5.25)	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
MN-3	4	2.46 (1.78)	2.33 (3.55)	4.51 (6.20)	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
MN-1	Lower	2.85 (1.51)	1.44 (1.09)	3.59 (3.26)	0.00 0.00	2.64 (2.82)	0.00 0.00	3.77 (4.62)
MN-2 & 3	Upper	2.70 (1.38)	2.28 (1.67)	4.51 (4.08)	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
Total	All	2.79 (1.07)	1.66 (0.95)	4.14 (2.73)	0.00 0.00	2.64 (2.82)	0.00 0.00	3.77 (4.62)
Sample Size		452	44	0	0	0	0	0

¹ Due to low sample size, weights were calculated from length-weight regression, average weight is based on mostly non-weighed fish.

² Great Lakes Fishery Commission Statistical Districts.

³ Cluster 1=Duluth, Cluster 2=McQuade-Two Harbors, Cluster 3=Twin Points-Taconite Harbor, Cluster 4=Grand Marais-Hovland.

Table 18. Average¹ weight (lbs) of harvested fish by species, cluster, and shore area for charter anglers during the 2022 Lake Superior summer creel survey². Standard error is in parentheses.

District ³	Cluster ⁴	Lake Trout	Coho Salmon	Chinook Salmon	Steelhead	Siscowet	Pink Salmon	Walleye
MN-1	1	2.76 (0.36)	1.19 (0.25)	3.86 (0.38)	0.00 0.00	2.68 (0.62)	1.30 (0.68)	1.54 (0.15)
MN-1	2	2.94 (0.25)	1.21 (0.22)	3.96 (0.53)	0.00 0.00	2.74 (0.90)	0.00 0.00	1.74 (0.40)
MN-2	3	2.45 (0.15)	2.25 (0.30)	4.60 (1.26)	0.00 0.00	0.00 0.00	1.30 (1.09)	0.00 0.00
MN-3	4	2.30 (0.19)	2.36 (0.32)	4.60 (1.43)	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
MN-1	Lower	2.78 (0.33)	1.19 (0.25)	3.86 (0.37)	0.00 0.00	2.68 (0.59)	1.30 (0.68)	1.54 (0.15)
MN-2 & 3	Upper	2.41 (0.12)	2.28 (0.24)	4.60 (0.97)	0.00 0.00	0.00 0.00	1.30 (1.09)	0.00 0.00
Total	All	2.70 (0.26)	1.25 (0.23)	3.89 (0.36)	0.00 0.00	2.68 (0.59)	1.30 (0.51)	1.54 (0.15)
Sample Size		436	32	21	0	28	0	9

¹ Due to low sample size, weights were calculated from length-weight regression, average weight is based on mostly non-weighed fish.

² Includes clients of chartered boat trips and excludes personal trips by licensed charter captains.

³ Great Lakes Fishery Commission Statistical Districts.

⁴ Cluster 1=Duluth, Cluster 2=McQuade-Two Harbors, Cluster 3=Twin Points-Taconite Harbor, Cluster 4=Grand Marais-Hovland.

Table 19. Yield¹ (lbs) by species, cluster, and shore area for private sport boat and shore anglers during the 2022 Lake Superior summer creel survey. Standard error is in parentheses.

District ²	Cluster ³	Lake Trout	Coho Salmon	Chinook Salmon	Steelhead	Siscowet	Pink Salmon	Other ⁴ Salmonines	Total Salmonines	Walleye
MN-1	1	1,941 (1,089)	198 (189)	391 (331)	0 0	0 0	0 0	0 0	2,530 (1,154)	53 (30)
MN-1	2	15,327 (6,516)	1,273 (773)	233 (227)	0 0	880 (668)	0 0	0 0	17,713 (6,599)	49 (28)
MN-2	3	6,152 (3,222)	694 (408)	559 (468)	0 0	0 0	0 0	0 0	7,405 (3,281)	0 0
MN-3	4	4,178 (2,139)	133 (144)	590 (583)	0 0	0 0	0 0	208 0	5,109 (2,221)	0 0
MN-1	1 & 2	17,268 (6,606)	1,471 (796)	625 (401)	0 0	880 (668)	0 0	0 0	20,243 (6,699)	102 (42)
MN-2 & 3	3 & 4	10,330 (3,867)	826 (432)	1,149 (747)	0 0	0 0	0 0	208 0	12,514 (3,962)	0 0
Total	All	27,597 (7,654)	2,298 (906)	1,774 (848)	0 0	880 (668)	0 0	208 0	32,757 (7,783)	102 (42)

¹ Estimates are rounded to the nearest pound.

² Great Lakes Fishery Commission Statistical Districts.

³ Cluster 1=Duluth, Cluster 2=McQuade-Two Harbors, Cluster 3=Twin Points-Taconite Harbor, Cluster 4=Grand Marais-Hovland.

⁴ Includes Splake (138 lbs) and Brook Trout (70 lbs). Anglers also harvested Cisco (182 lbs) and Lake Whitefish (146 lbs).

Table 20. Yield¹ (lbs) by species, cluster, and shore area for charter anglers during the 2022 Lake Superior summer creel survey. Standard error is in parentheses.

District ²	Cluster ³	Lake Trout	Coho Salmon	Chinook Salmon	Steelhead	Siscowet	Pink Salmon	Other ⁴ Salmonines	Total Salmonines	Walleye
MN-1	1	20,548 (7,479)	1,056 (528)	2,274 (1,398)	0 0	2,175 (1,712)	5 0	70 (12)	26,127 (7,817)	980 (242)
MN-1	2	2,072 (1,030)	25 (12)	52 (37)	0 0	80 (76)	0 0	0 0	2,228 (1,033)	2 (1)
MN-2	3	3,833 (1,499)	88 (48)	55 (62)	0 0	0 0	3 (2)	0 0	3,978 (1,501)	0 0
MN-3	4	1,386 (609)	38 (21)	69 (82)	0 0	34 0	0 0	0 0	1,528 (615)	0 0
MN-1	1 & 2	22,619 (7,550)	1,081 (528)	2,325 (1,398)	0 0	2,254 (1,714)	5 0	70 (12)	28,355 (7,885)	982 (242)
MN-2 & 3	3 & 4	5,219 (1,618)	126 (53)	124 (103)	0 0	34 0	3 (2)	0 0	5,506 (1,622)	0 0
Total	All	27,839 (7,721)	1,207 (531)	2,449 (1,402)	0 0	2,289 (1,714)	8 (2)	70 (12)	33,861 (8,050)	982 (242)

¹ Estimates are rounded to the nearest pound.

² Great Lakes Fishery Commission Statistical Districts.

³ Cluster 1=Duluth, Cluster 2=McQuade-Two Harbors, Cluster 3=Twin Points-Taconite Harbor, Cluster 4=Grand Marais-Hovland.

⁴ Brown Trout (70 lbs). Anglers also harvested Lake Whitefish (37 lbs), Northern Pike (12 lbs), and Cisco (7 lbs).

Table 21. Yield¹ (lbs) by species, cluster, and shore area for all anglers during the 2022 Lake Superior summer creel survey. Standard error is in parentheses.

District ²	Cluster ³	Lake Trout	Coho Salmon	Chinook Salmon	Steelhead	Siscowet	Pink Salmon	Other ⁴ Salmonines	Total Salmonines	Walleye
MN-1	1	22,488 (7,558)	1,254 (561)	2,665 (1,436)	0 0	2,175 (1,712)	5 0	70 (12)	28,657 (7,902)	1,033 (244)
MN-1	2	17,399 (6,596)	1,298 (773)	285 (230)	0 0	959 (673)	0 0	0 0	19,941 (6,679)	51 (28)
MN-2	3	9,985 (3,553)	781 (411)	614 (472)	0 0	0 0	3 (2)	0 0	11,383 (3,608)	0 0
MN-3	4	5,564 (2,224)	171 (145)	659 (588)	0 0	34 0	0 0	208 0	6,636 (2,305)	0 0
MN-1	1 & 2	39,887 (10,032)	2,552 (955)	2,950 (1,455)	0 0	3,134 (1,840)	5 0	70 (12)	48,598 (10,347)	1,084 (246)
MN-2 & 3	3 & 4	15,549 (4,192)	952 (435)	1,273 (754)	0 0	34 0	3 (2)	208 0	18,019 (4,281)	0 0
Total	All	55,436 (10,872)	3,504 (1,050)	4,223 (1,639)	0 0	3,168 (1,840)	8 (2)	278 (12)	66,617 (11,197)	1,084 (246)

¹ Estimates are rounded to the nearest pound.

² Great Lakes Fishery Commission Statistical Districts.

³ Cluster 1=Duluth, Cluster 2=McQuade-Two Harbors, Cluster 3=Twin Points-Taconite Harbor, Cluster 4=Grand Marais-Hovland.

⁴ Includes Splake (138 lbs), Brown Trout (70 lbs), and Brook Trout (70 lbs). Anglers also harvested Cisco (189 lbs), Lake Whitefish (183 lbs), and Northern Pike (12 lbs)

