DEPARTMENT OF NATURAL RESOURCES

COMMERCIAL FISHING SUMMARY MINNESOTA WATERS OF LAKE SUPERIOR

2022

MINNESOTA DEPARTMENT OF NATURAL RESOURCES DIVISION OF FISH AND WILDLIFE

LAKE SUPERIOR AREA FISHERIES

Prepared by:

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Executive Summary

This report summarizes information from monthly fishing reports submitted by Lake Superior commercial operators from January through December. All data and analysis on Lake Herring (*Coregonus artedi*) will be reported as Cisco, the term standardized by the American Fisheries Society. Summaries are by statistical reporting districts and include the non-tribal commercial harvest within the Grand Portage Band of Chippewa Reservation (Figure 1).

- Twenty-three commercial operators were licensed in 2022: three in MN-1, seven in MN-2, and thirteen in MN-3 (Table 1, Appendix 1). Four apprentices were licensed: one in MN-1, one in MN-2, and two in MN-3.
- The amount of Cisco net licensed was 34,700 feet and the amount of chub (*C. hoyi*) net licensed was 3,000 feet. (Table 1).
- Gross market value for all species harvested was estimated at \$303,358.11 (Table 2). Gross market value is determined as the dockside value of fish in round weight before processing or handling adds value.
- During the traditional Cisco harvest season (all months excluding November) commercial operators set 743,175 feet of net and harvested 235,872 pounds of Cisco, producing a catch per unit effort (CPUE) of 317 pounds of Cisco per 1,000 feet of net (Tables 3-6; Figure 2).
- Fourteen commercial operators requested permits to fish Cisco during the November season (Table 1, Appendix 1). Quotas were implemented for each statistical district and applied to commercial operators who participated. In past years, several operators fished in Grand Portage Band of Chippewa waters, but under the State of Minnesota quota and permit system. However, beginning in 2016 Grand Portage opted to set their own November Cisco quota, but continue to allow some state-licensed operators to fish in their waters. During November, 174,355 feet of net were fished, catching a total of 109,399 pounds (88,414 pounds in Minnesota waters and 20,985 pounds in Reservation waters) of Cisco and producing a CPUE of 627 pounds per 1,000 feet of net (Tables 7 and 8). Thirty-two percent of the total Cisco harvest was taken in the November season (Figure 3). Eleven percent of the available November TAC of Cisco was harvested in MN-1, 12% in MN-2, and 42% in MN-3 (Table 8).
- Lake trout (*Salvelinus namaycush*) became a legally targeted commercial species in MN-3 in 2007, MN-2 in 2010, and MN-1 in 2017. Two commercial operators requested permits to fish MN-1, six in MN-2, and four in MN-3 (Table 1). Lake Trout harvest in MN-1, MN-2, and MN-3 was 2,177 pounds, 1,273 pounds, and 7,050 pounds (Tables 9-11; Figure 4). Lake Trout possession has always been allowed as by-catch in the Cisco, chub, and Round Whitefish fisheries and totaled 701 pounds (Tables 4 and 6; Figure 5).

- Several commercial operators in MN-2 and MN-3 participate annually in the May Lake Trout assessment survey under MNDNR permit. A total of 350 pounds of Lake Trout were harvested in MN-2 and 1,122 pounds were taken in MN-3 (Table 6).
- Nine Round Whitefish permits (Prosopium cylindraceum) were granted to commercial operators (Table 1). Operators set 62,700 feet of net and caught 4,812 pounds of Round Whitefish (Tables 2-4 and 6; Figure 6).

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<u>Item</u> Number of operators	<u>MN-1</u> 3	<u>MN-2</u> 7	<u>MN-3</u> 13	<u>TOTAL</u> 23
Number of apprentices	1	1	2	4
Cisco net licensed (feet) ¹	3,700	10,800	20,200	34,700
Chub net licensed (feet) ²	0	2,000	1,000	3,000
Pound nets (number)	0	0	0	0
Trap nets (number)	0	1	2	3
Round Whitefish permits	0	4	5	9
November Cisco permits	2	5	7	14
Lake Trout assessment permits				
May	0	2	1	3
Commercial	2	6	4	12
Spawning	0	0	0	0

Table 1. License summary of the commercial fishery by statistical district in the Minnesota waters of Lake Superior, 2022.

Spawning00001 2.25-2.75 inch stretch measurement gill nets weighted to fish suspended off the bottom.

² 2.25-2.75 inch stretch measurement gill nets weighted to fish on the bottom.

					Average	Approximate
Species	MN-1	MN-2	MN-3	Total	Price/lb	Value
Cisco	15,399	34,076	295,796	345,271	\$0.82	\$283,122.22
Chubs	0	0	0	0	\$0.00	\$0.00
Smelt	0	0	0	0	\$0.00	\$0.00
Lake trout						
Cisco net ¹	77	353	202	632	\$1.21	\$764.72
Chub net ²	0	0	0	0	\$1.21	\$0.00
Round Whitefish net ³	0	3	66	69	\$1.21	\$83.49
Assessment ⁴	0	350	1,122	1,472	\$1.21	\$1,781.12
Commercial ⁵	2,177	1,273	7,050	10,500	\$1.21	\$12,705.00
Total	2,254	1,979	8,440	12,673		
<u>Siscowet</u>						
Cisco net ¹	0	0	0	0	\$1.21	\$0.00
Chub net ²	0	0	0	0	\$1.21	\$0.00
Assessment ⁴	0	55	62	117	\$1.21	\$141.57
Commercial ⁵	6	96	357	459	\$1.21	\$555.39
Total	6	151	419	576		
Round whitefish	0	676	4,136	4,812	\$0.74	\$3,560.88
Suckers	0	0	7	7	N/A	\$0.00
Burbot	0	0	7	7	N/A	\$0.00
Lake Whitefish	45	11	476	532	\$1.21	\$643.72
					Tot	tal \$303,358.11

Table 2. Total catch of all species in pounds (all gear combined), by statisticaldistrict and dockside gross harvest value in the Minnesota waters of Lake Superior,2022.

¹ Bycatch in Cisco nets

² Bycatch in chub nets

³ Bycatch in Round Whitefish nets

⁴ Taken under permit during Lake Trout assessment netting operations

⁵ Expanded commercial assessment

Table 3. Reported fishing effort (feet of net) by gear type and statistical district in the Minnesota waters of Lake Superior, 2022.

						Lake Tro	out	Pound	Trap
		2.25 - 2.75 in	ch stretch	3.0 inch stretch		h stretch	5.5 inch stretch	Net	Net
District		Cisco Net	Chub Net	Round Whitefish Net	May ³	Com.4	Spawn ⁵	Lifts	Lifts
MN-1		90,680 ¹ 9,470 ²	0	0		24,000		0	0
	Sub-total	100,150							
MN-2		146,505 ¹ 37,785 ²	0	9,200	5,750	28,400	0	0	0
	Sub-total								
MN-3		505,990 ¹ 127,100 ²	0	53,500	12,750	72,300	0	0	0
	Sub-total								
Shorewide		743,175 ¹							
		174,355 ²							
	Total	917,530	0	62,700	18,500	124,700	0	0	0

Traditional Cisco season, excludes November

² November Cisco season

³ May Lake Trout assessment permit ⁴ Expanded commercial Lake Trout assessment

⁵ Lake Trout spawning assessment permit

						Lake Trout			
		2.25 - 2.75 i		3.0 inch stretch	4.5 inch		5.5 inch stretch	Pound	Tra
District		Cisco Net	Chub Net	Round Whitefish	May ⁵	Com.6	Spawn ⁷	Net	Net
MN-1	Cisco	11,489 ¹							
		3,910 ²							
	Sub-total	15,399							
	Chub		0						
	Smelt								
	Burbot								
	Suckers								
	Lake Whitefish					45			
	Lake trout	77 ³				2,177			
	Siscowet	0 ³				6			
	Round Whitefish			0					
MN-2	Cisco	22,574 ¹		1 ⁴					
		11,502 ²							
	Sub-total	34,076							
	Chub		0						
	Burbot								
	Suckers								
	Lake Whitefish				0	11			
	Lake trout	353 ³		3 ⁴	350	1,273	0		
	Siscowet	0 ³			55	96	0		
	Round Whitefish			676					
MN-3	Cisco	201,809 1		145 ⁴					
		93,987 ²							
	Sub-total								
	Chub		0						
	Burbot			7 4					
	Suckers			7 4					
	Lake Whitefish			4	22	454			
	Lake trout	202 ³		66 ⁴	1,122	7,050	0		
	Siscowet	0 ³			62	357	0		
	Round Whitefish			4,136					
Shorev				,					
	Cisco	235,872 ¹		146 ⁴					
		109,399 ²							
	Total								
	Chub		0						
	Burbot		0	7 4					
	Suckers			7 4					
	Lake Whitefish			0 4	22	510			
	Lake trout	632 ³	0	69 ⁴	1,472	10,500	0		
	Siscowet	0 3	0	0 4	117	459	0		
	Round Whitefish	÷	5	4,812		.50	-		

Table 4. Harvest (pounds) of major species by gear type and statistical district in the Minnesota waters of Lake Superior, 2022.

¹ Traditional Cisco season, excludes November

² November Cisco season

³ Bycatch of Lake Trout and Siscowet in Cisco nets

⁴ Bycatch in Round Whitefish nets

⁵ May Lake Trout assessment permit

⁶ Expanded commerial Lake Trout assessment

⁷ Lake Trout spawning assessment permit

				Pound	Pounds/	/lift				
		2.25 - 2.75 ir	nch stretch	3.0 inch stretch	4	.5 inc	h stretch	5.5 inch stretch	Pound	Trap
District		Cisco Net	Chub Net	Round Whitefish	Ma	y ⁵	Com.6	Spawn ⁷	Net	Net
MN-1	Cisco	126.7 ¹								
		412.9 ²								
	Sub-total	153.8								
	Chub									
	Smelt									
	Burbot									
	Suckers									
	Lake Whitefish						1.9			
	Lake trout	0.8 ³					90.7			
	Siscowet	0.0 3					0.3			
	Round Whitefish									
MN-2	Cisco	154.1 ¹		0.1	4					
		304.4 ²								
	Sub-total	184.9								
	Chub									
	Burbot									
	Suckers									
	Lake whitefish				C	0.0	0.4			
	Lake trout	1.9 ³			60).9	44.8			
	Siscowet	0.0 ³			ę	9.6	3.4			
	Round Whitefish			73.5	-					
MN-3	Cisco	398.8 ¹		2.7	4					
		739.5 ²								
	Sub-total	467.2								
	Chub									
	Burbot		0.0	0.1						
	Suckers			0.1						
	Lake whitefish			0.0		.7	6.3			
	Lake trout	0.3 ³		1.2			97.5			
	Siscowet	0.0 3			4	.9	4.9			
	Round Whitefish			77.3						
Shorewid	-									
	Cisco	317.4 ¹		2.3	4					
		627.4 ²								
	Total	376.3								
	Chub				4					
	Burbot		0.0	0.1						
	Suckers			0.1		_				
	Lake whitefish	-		0.0		.2	4.1			
	Lake trout	0.7 3		1.1			84.2			
	Siscowet	0.0 3			6	6.3	3.7			
	Round Whitefish			76.7						

Table 5. Catch per unit effort (CPUE) in pounds of major species by gear type and statistical district in the Minnesota waters of Lake Superior, 2022.

¹ Traditional Cisco season, excludes November

² November Cisco assessment

³ Bycatch of Lake Trout and Siscowet in Cisco nets

⁴ Bycatch in Round Whitefish nets

⁵ May Lake Trout assessment permit

⁶ Expanded commercial Lake Trout assessment

⁷ Lake Trout spawning assessment permit

statistic	ai uis	strict	ιmι	ne w	Inne				ke Su						
						Round		ke Trout			owet		Lake Wh		_
Month	Cisco	Chub	Smelt	Sucker	r Burbot	Whitefish	Bycatc	h Permit	Com.	Bycatch	Permit	Com.	Bycatch	n Permit	Com.
/N-1 January															
February															
March															
April															
May	404														
June	1,455								530			0			6
July	2,987						3		353			0			0
August	806						13		268			0			14
September	2,408						9		1026			6			25
October	2,219						39								
November	3,910						13								
December	1,210														
Totals	15,399	0	0	0	0	0	77	0	2,177	0	0	6	0	0	45
IN-2 January	,														
February															
March															
April															
May						277		350			55				
June						387	3	000	213		00	36			0
July	692					001	7		6			0			0
August	2,745						17		260			0			0
September	2,148						15		794			60			11
October	15,379						184		701			00			
November	11,502					12	113								
December	1,610					12	17								
Totals	34,076	0	0	0	0	676	356	350	1,273	0	55	96	0	0	11
IN-3 January	04,070		<u> </u>		<u> </u>	0/0	000	000	1,270	0		50			
February															
March															
April	1,230			1	3	1,273	44								
May	825				2	1,416	13	1,122			62			22	
June	2,382				2	1,368	4	1,122	1,833		02	64		~~~	91
July	2,362				2	1,000	7		613			53			33
August	36,612								1,686			58			15
September	18,176								2,918			182			315
October	122,224						90		2,910			102			515
November	93,987					46	90 112								
December	33,307			6		33	5								
December Totals	295,796	0	0	6 7	7	33 4,136	э 268	1,122	7,050	0	62	357	0	22	454
	290,/90	U	U	1	1	4,130	200	1,122	7,050	U	02	307	U	22	404
Shorewide	345 074	~	~	-	-	4 040	704	4 470	10 500	^	117	459	•	22	F40
Total	345,271	0	0	7	7	4,812	701	1,4/2	10,500	0	117	459	0	22	510

Table 6. Total catch of major commercial species in pounds, by species, month, and statistical district in the Minnesota waters of Lake Superior, 2022.

	License		Feet of Net	Pounds	Number	CPUE
District	Number	Grid	Fished	Caught	Days	Lbs./1000 feet
MN-1	<u>13</u>	1303	4,070	2,170	17	533
	<u>18</u>	1303	5,400	1,740	18	322
	Subtotal		9,470	3,910	35	413
MN-2	<u>7</u>	1205	3,900	1,700	13	436
	<u>45</u>	1205	6,900	1,004	7	146
	<u>62</u>	1106	11,975	2,645	7	221
	<u>201</u>	1205	3,300	916	3	278
	<u>202</u>	1106	11,710	5,237	10	447
	Subtotal		37,785	11,502	40	304
MN-3	<u>9</u> ^G	715	850	1,205	5	1,418
	<u>20</u> <u>21</u>	811	16,500	13,510	11	819
	<u>21</u>	714	9,600	3,515	8	366
	<u>22</u> ^G	715	7,600	7,820	8	1,029
	<u>22</u> ^G 29	714	2,400	1,170	8	488
	<u>301</u> ^G	716	4,800	10,760	8	2,242
	<u>302</u> ^G	715	850	1,200	5	1,412
	<u>303</u>	714	63,000	36,720	21	583
	<u>304</u>	811	15,000	11,207	10	747
	305	812	4,000	3,800	8	950
	306	811	2,500	3,080	5	1,232
	Subtotal		127,100	93,987	97	739
	Shorewide					
	Total		174,355	109,399	172	627

Table 7. Harvest (pounds) and catch per unit effort (CPUE) of Cisco by statistical district and permit holder during November 2022 in the Minnesota waters of Lake Superior. Data from state-licensed operators who fished Grand Portage Band of Chippewa waters is included.

^G operators whose harvest was from Grand Portage Band of Chippewa waters under their quota

Table 8. Harvest compared to total allowable catch (TAC), fishing effort and catch per unit effort (CPUE) of Cisco, by season and statistical district in the Minnesota waters of Lake Superior, 2022. Data from state-licensed operators who fished Grand Portage Band of Chippewa waters is included.

rember December 2021 2021 arvest Harvest 9,021 3,826 nds vested 11,489 3,910 15,399 er TAC: 34,625	Jan-Oct 2022 Harvest 235,374 % of Annual Harvest 75% 25%	Calculated November TAC 301,084 Feet of Net Fished 90,680	% Area of District 0.115 0.314 0.571 Total No % of Net Fished	MN-1 MN-2 MN-3 ovember TAC	November District Quota 34,625 94,540 171,919 301,084 % of Nov
nds <u>vested</u> 11,489 3,910 15,399	Harvest 235,374 % of Annual Harvest 75%	TAC 301,084 Feet of Net Fished	District 0.115 0.314 0.571 Total No % of Net	MN-2 MN-3 ovember TAC	Quota 34,625 94,540 171,919 301,084 % of Nov
9,021 3,826 nds <u>/ested</u> 11,489 3,910 15,399	235,374 % of Annual Harvest 75%	301,084 Feet of Net Fished	0.115 0.314 0.571 Total No % of Net	MN-2 MN-3 ovember TAC	34,625 94,540 171,919 301,084 % of Nov
nds vested 11,489 3,910 15,399	% of Annual Harvest 75%	Feet of Net Fished	0.314 0.571 Total No % of Net	MN-2 MN-3 ovember TAC	94,540 171,919 301,084 % of Nov
vested 11,489 3,910 15,399	Annual Harvest 75%	Fished	0.571 Total No % of Net	MN-3 ovember TAC	171,919 301,084 % of Nov
vested 11,489 3,910 15,399	Annual Harvest 75%	Fished	Total No % of Net	CPUE	301,084 % of Nov
vested 11,489 3,910 15,399	Annual Harvest 75%	Fished	% of Net	CPUE	% of Nov
vested 11,489 3,910 15,399	Annual Harvest 75%	Fished			
vested 11,489 3,910 15,399	Annual Harvest 75%	Fished			
vested 11,489 3,910 15,399	Harvest 75%	Fished			TAC
11,489 3,910 15,399	75%		FISHED	feet	Harvested
3,910 15,399		90,000	91%	127	
15,399		9,470	9%	413	11%
,		100,150		154	
		,			
	% of			CPUE	% of Nov
nds	Annual	Feet of Net	% of Net	lbs./1000	TAC
<i>v</i> ested	Harvest	Fished	Fished	feet	Harvested
22,574	66%	146,505	79%	154	
11,502	34%	37,785	21%	304	12%
34,076		184,290		185	
er TAC: 94,540					
	% of			CPUE	% of Nov
nds	Annual	Feet of Net	% of Net	lbs./1000	TAC
<i>v</i> ested	Harvest	Fished	Fished	feet	Harvested
01,809	68%	505,990	80%	399	
73,002	25%	113,000	18%	646	42%
20,985	7%	14,100	2%	1,488	
93,987	32%	127,100	20%	739	
95,796		633,090		467	
er TAC: 171,919					
	% of			CPUE	% of Nov
nds	Annual	Feet of Net	% of Net	lbs./1000	TAC
<i>l</i> ested	Harvest	Fished	Fished	feet	Harvested
35,872		743,175	81%	317	
88,414	26%	160,255	17%	552	29%
20,985	6%	14,100	2%	1,488	
09,399	32%	174,355	19%	627	
	nds rested 01,809 73,002 20,985 03,987 05,796 rr TAC: 171,919 nds rested 35,872 38,414 20,985 09,399	% of nds Annual rested Harvest 01,809 68% 73,002 25% 20,985 7% 93,987 32% 95,796	% of nds Annual Feet of Net rested Harvest Fished 01,809 68% 505,990 73,002 25% 113,000 20,985 7% 14,100 03,987 32% 127,100 95,796 633,090 633,090 rr TAC: 171,919 % of 633,090 nds Annual Feet of Net rested Harvest Fished 35,872 68% 743,175 38,414 26% 160,255 20,985 6% 14,100 09,399 32% 174,355	% of nds Annual Feet of Net % of Net rested Harvest Fished Fished Fished 01,809 68% 505,990 80% 73,002 25% 113,000 18% 20,985 7% 14,100 2% 93,987 32% 127,100 20% 95,796 633,090 90% 10% r TAC: 171,919 7% 14,100 2% 93,987 32% 127,100 20% 10% 95,796 633,090 90% 10% 10% 10% r TAC: 171,919 7% 10% <td< td=""><td>% of CPUE nds Annual Feet of Net % of Net lbs./1000 rested Harvest Fished Fished feet 01,809 68% 505,990 80% 399 73,002 25% 113,000 18% 646 20,985 7% 14,100 2% 1,488 93,987 32% 127,100 20% 739 95,796 633,090 467 467 r TAC: 171,919 Kof CPUE mds Annual Feet of Net % of Net lbs./1000 rested Harvest Fished Fished feet 35,872 68% 743,175 81% 317 38,414 26% 160,255 17% 552 20,985 6% 14,100 2% 1,488 09,399 32% 174,355 19% 627</td></td<>	% of CPUE nds Annual Feet of Net % of Net lbs./1000 rested Harvest Fished Fished feet 01,809 68% 505,990 80% 399 73,002 25% 113,000 18% 646 20,985 7% 14,100 2% 1,488 93,987 32% 127,100 20% 739 95,796 633,090 467 467 r TAC: 171,919 Kof CPUE mds Annual Feet of Net % of Net lbs./1000 rested Harvest Fished Fished feet 35,872 68% 743,175 81% 317 38,414 26% 160,255 17% 552 20,985 6% 14,100 2% 1,488 09,399 32% 174,355 19% 627

¹ commercial operators fishing under State of Minnesota November permits and quotas

^G commercial operators fishing in Grand Portage waters under Grand Portage Band of Chippewa quota

	Feet		Lake Trout Siscowet Lake W							Vhitefish			
	of Net		Number	lb	s./1000 ft		Number	lb	s./1000 ft		Number		lbs./1000 ft
	Fished	Number	/1000 ft	Pounds	CPUE	Number	/1000 ft	Pounds	CPUE	Number	/1000 ft	Pounds	CPUE
Permitt	ee 13 Grid	1303											
June	3,500	44	12.6	184	52.6		0.0		0.0	2	0.6	6	1.7
July	2,500	29	11.6	116	46.4		0.0		0.0		0.0		0.0
August	2,000	42	21.0	183	91.5		0.0		0.0	3	1.5	14	7.0
Sept	4,500	131	29.1	621	138.0	2	0.4	6	1.3	6	1.3	25	5.6
	12,500	246	19.7	1,104	88.3	2	0.2	6	0.5	11	0.9	45	3.6
<u>Permitt</u>	ee 18 Grid	<u>1303</u>											
June	4,500	83	18.4	346	76.9		0.0		0.0		0.0		0.0
July	2,000	60	30.0	237	118.5		0.0		0.0		0.0		0.0
August	1,500	22	14.7	85	56.7		0.0		0.0		0.0		0.0
Sept	3,500	85	24.3	405	115.7		0.0		0.0		0.0		0.0
	11,500	250	21.7	1,073	93.3	0	0.0	0	0.0	0	0.0	0	0.0
Total ef	fort and har	vest in MN1											
June	8,000	127	15.9	530	66.3	0	0.0	0	0.0	2	0.3	6	0.8
July	4,500	89	19.8	353	78.4	0	0.0	0	0.0	0	0.0	0	0.0
August	3,500	64	18.3	268	76.6	0	0.0	0	0.0	3	0.9	14	4.0
Sept	8,000	216	27.0	1,026	128.3	2	0.3	6	0.8	6	0.8	25	3.1
Totals	24,000	496	20.7	2,177	90.7	2	0.1	6	0.3	11	0.5	45	1.9

 Table 9. Effort, harvest and catch per unit effort (CPUE) for commercial Lake Trout, Siscowet and Lake Whitefish by permit in Statistical District MN-1, Minnesota waters of Lake Superior, 2022.

	Feet		Lak		Siscowet				Lake Whitefish				
	of Net		Number	lb	s./1000 ft		Number	lb	s./1000 ft		Number	lb	s./1000 [·]
	Fished	Number	/1000 ft	Pounds	CPUE	Number	/1000 ft	Pounds	CPUE	Number	/1000 ft	Pounds	CPUE
Permittee	e 45 Grid 12	205											
June			0.0		0.0		0.0		0.0		0.0		0.0
July			0.0		0.0		0.0		0.0		0.0		0.0
August			0.0		0.0		0.0		0.0		0.0		0.0
Sept	2,500	19	7.6	77	30.8	11	4.4	31	12.4		0.0		0.0
	2,500	19	7.6	77	30.8	11	4.4	31	12.4	0	0.0	0	0.0
Permittee	e 62 Grid 1	<u>106</u>											
June	4,500	29	6.4	96	21.3	3	0.7	14	3.1		0.0		0.0
July	500	2	4.0	6	12.0		0.0		0.0		0.0		0.0
August			0.0		0.0		0.0		0.0		0.0		0.0
Sept	5,500	27	4.9	121	22.0	5	0.9	15	2.7	1	0.2	5	0.9
	10,500	58	5.5	223	21.2	8	0.8	29	2.8	1	0.1	5	0.5
Permittee	7 Grid 12	05											
June	<u> </u>		0.0		0.0		0.0		0.0		0.0		0.0
July			0.0		0.0		0.0		0.0		0.0		0.0
August			0.0		0.0		0.0		0.0		0.0		0.0
Sept			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	0	0.0
Permittee	e 201 Grid 1	105											
June		<u> </u>	0.0		0.0		0.0		0.0		0.0		0.0
July			0.0		0.0		0.0		0.0		0.0		0.0
August			0.0		0.0		0.0		0.0		0.0		0.0
Sept			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	0	0.0
	-	-		-		-		-		-		-	

Table 10. Effort, harvest and catch per unit effort (CPUE) for commercial Lake Trout, Siscowet and Lake Whitefish by permit in Statistical District MN-2, Minnesota waters of Lake Superior, 2022.

	Feet	Lake Trout					Sis	scowet		Lake Whitefish			
	of Net		Number	lb	s./1000 ft		Number	lb	s./1000 ft		Number	I	bs./1000 fl
	Fished	Number	/1000 ft	Pounds	CPUE	Number	/1000 ft	Pounds	CPUE	Number	/1000 ft	Pounds	CPUE
Permittee	202 Grid 11	06											
June	4,000	32	8.0	117	29.3	4	1.0	22	5.5		0.0		0.0
July			0.0		0.0		0.0		0.0		0.0		0.0
August			0.0		0.0		0.0		0.0		0.0		0.0
Sept	6,000	48	8.0	211	35.2	5	0.8	14	2.3	1	0.2	6	1.0
	10,000	80	8.0	328	32.8	9	0.9	36	3.6	1	0.1	6	0.6
<u>Permittee</u>	203 Grid 90	9											
June			0.0		0.0		0.0		0.0		0.0		0.0
July			0.0		0.0		0.0		0.0		0.0		0.0
August	3,600	60	16.7	260	72.2		0.0		0.0		0.0		0.0
Sept	1,800	77	42.8	385	213.9		0.0		0.0		0.0		0.0
	5,400	137	25.4	645	119.4	0	0.0	0	0.0	0	0.0	0	0.0
Total effor	rt and harve	est in MN2											
June	8,500	61	7.2	213	25.1	7	0.8	36	4.2	0	0.0	0	0.0
July	500	2	4.0	6	12.0	0	0.0	0	0.0	0	0.0	0	0.0
August	3,600	60	16.7	260	72.2	0	0.0	0	0.0	0	0.0	0	0.0
Sept	15,800	171	10.8	794	50.3	21	1.3	60	3.8	2	0.1	11	0.7
Totals	28,400	294	10.4	1,273	44.8	28	1.0	96	3.4	2	0.1	11	0.4

Table 10 continued. Effort, harvest and catch per unit effort (CPUE) for commercial Lake Trout, Siscowet and Lake Whitefish by permit in Statistical District MN-2, Minnesota waters of Lake Superior, 2022.

	Feet	Lake Trout				Siscowet				Lake Whitefish				
	of Net		Number	lb	os./1000 ft		Number	lb	s./1000 ft		Number		lbs./1000 ft	
	Fished	Number	/1000 ft	Pounds	CPUE	Number	/1000 ft	Pounds	CPUE	Number	/1000 ft	Pounds	CPUE	
Permittee	e 20 Grid 812													
June	9,000	211	23.4	783	87.0	4	0.4	9	1.0	4	0.4	10	1.1	
July	5,250	157	29.9	483	92.0	14	2.7	45	8.6	5	1.0	21	4.0	
August	8,250	249	30.2	999	121.1	10	1.2	35	4.2	3	0.4	7	0.8	
Sept	6,000	209	34.8	900	150.0	8	1.3	26	4.3	8	1.3	49	8.2	
	28,500	826	29.0	3,165	111.1	36	1.3	115	4.0	20	0.7	87	3.1	
<u>Permittee</u>	e 21 Grid 714													
June	3,000	14	4.7	65	21.7	4	1.3	12	4.0	1	0.3	3	1.0	
July	1,800	11	6.1	39	21.7	1	0.6	3	1.7		0.0		0.0	
August			0.0		0.0		0.0		0.0		0.0		0.0	
Sept	6,000	57	9.5	204	34.0	36	6.0	91	15.2		0.0		0.0	
	10,800	82	7.6	308	28.5	41	3.8	106	9.8	1	0.1	3	0.3	
Permittee	e 303 Grid 71	4												
June	6,750	124	18.4	500	74.1	3	0.4	9	1.3	13	1.9	66	9.8	
July	1,500	15	10.0	91	60.7	2	1.3	5	3.3	3	2.0	12	8.0	
August			0.0		0.0		0.0		0.0		0.0		0.0	
Sept	4,500	135	30.0	726	161.3	6	1.3	17	3.8	15	3.3	85	18.9	
	12,750	274	21.5	1,317	103.3	11	0.9	31	2.4	31	2.4	163	12.8	

 Table 11. Effort, harvest and catch per unit effort (CPUE) for commercial Lake Trout, Siscowet and Lake Whitefish by permit in Statistical District MN-3, Minnesota waters of Lake Superior, 2022.

	Feet	Lake Trout					Sis	cowet		Lake Whitefish				
	of Net		Number	lumber Ibs			Number	lb	s./1000 ft		Number		lbs./1000 ft	
	Fished	Number	/1000 ft	Pounds	CPUE	Number	/1000 ft	Pounds	CPUE	Number	/1000 ft	Pounds	CPUE	
<u>Permittee</u>	e 304 Grid 811													
June	6,750	147	21.8	485	71.9	13	1.9	34	5.0	3	0.4	12	1.8	
July			0.0		0.0		0.0		0.0		0.0		0.0	
August	6,750	206	30.5	687	101.8	9	1.3	23	3.4	3	0.4	8	1.2	
Sept	6,750	235	34.8	1,088	161.2	15	2.2	48	7.1	29	4.3	181	26.8	
	20,250	588	29.0	2,260	111.6	37	1.8	105	5.2	35	1.7	201	9.9	
Total effo	ort and harvest	in MN3												
June	25,500	496	19.5	1,833	71.9	24	0.9	64	2.5	21	0.8	91	3.6	
July	8,550	183	21.4	613	71.7	17	2.0	53	6.2	8	0.9	33	3.9	
August	15,000	455	30.3	1,686	112.4	19	1.3	58	3.9	6	0.4	15	1.0	
Sept	23,250	636	27.4	2,918	125.5	65	2.8	182	7.8	52	2.2	315	13.5	
Totals	72,300	1,770	24.5	7,050	97.5	125	1.7	357	4.9	87	1.2	454	6.3	

Table 11 continued. Effort, harvest and catch per unit effort (CPUE) for commercial Lake Trout, Siscowet and Lake Whitefish by permit in Statistical District MN-3, Minnesota waters of Lake Superior, 2022.

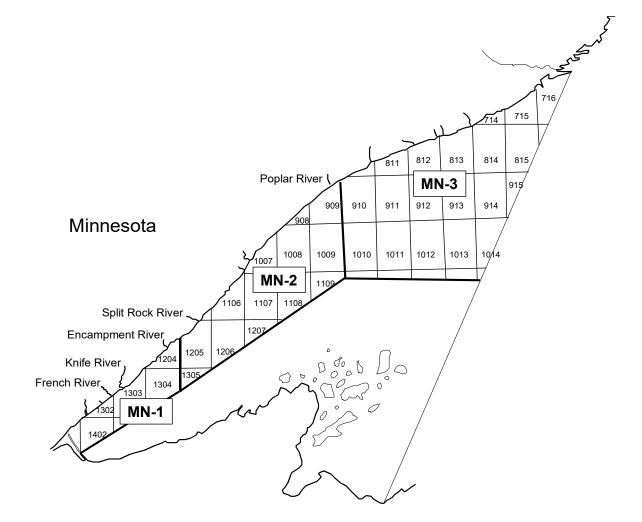


Figure 1. Statistical reporting districts and grids, Minnesota waters of Lake Superior.

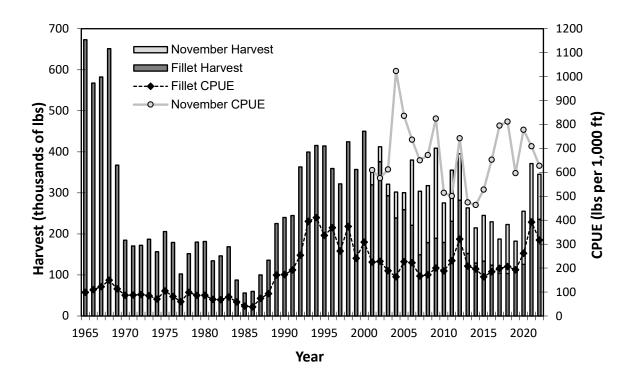


Figure 2. Cisco harvest and catch per unit effort (CPUE) in the commercial gill net fishery, Minnesota waters of Lake Superior, 1965-2022. Harvest has been restricted in November since 1973.

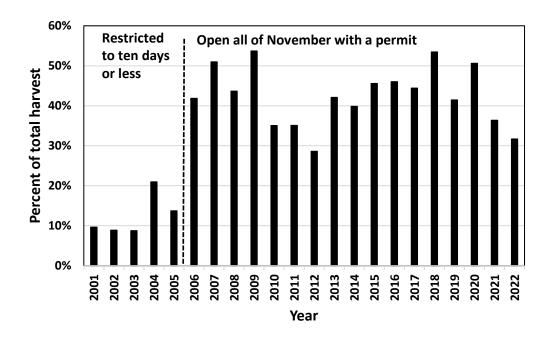


Figure 3. Percent of yearly Cisco harvest taken during November, Minnesota waters of Lake Superior, 2001-2022.

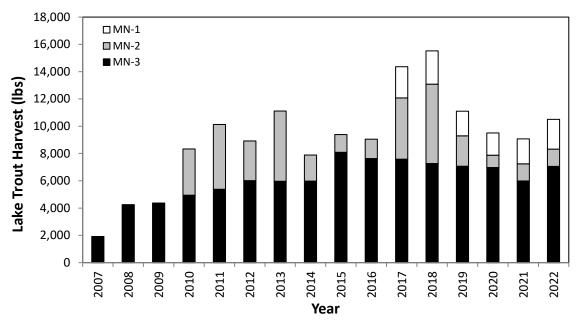


Figure 4. Lake Trout harvest by statistical district in the summer commercial assessment, Minnesota waters of Lake Superior, 2007-2022.

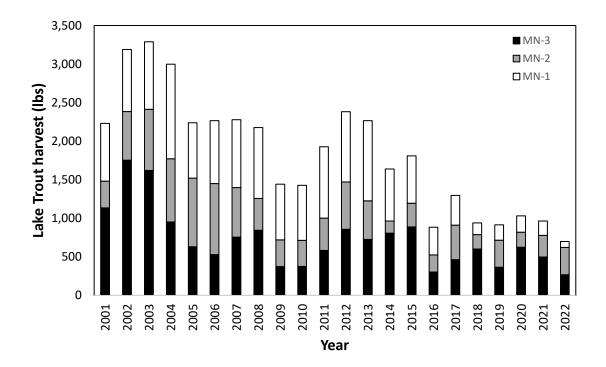


Figure 5. Incidental Lake Trout harvest in Cisco, chub, and Round Whitefish nets by statistical district, Minnesota waters of Lake Superior, 2001-2022.

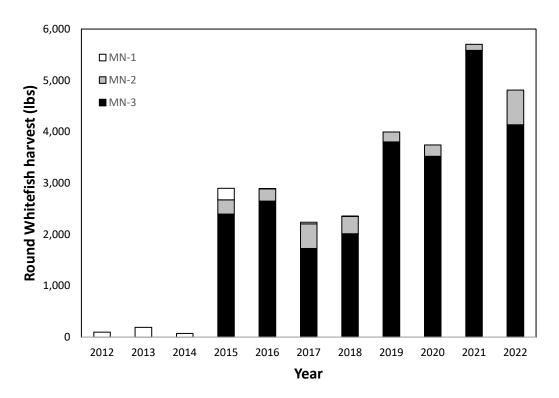


Figure 6. Round Whitefish harvest by statistical district, Minnesota waters of Lake Superior, 2012-2022.

Master				Feet of	Feet of Round				
License	Apprentice		Feet of	Chub	Whitefish	Pound	Trap		Statistica
No.	License	Name	Cisco Net	Net	Net	Nets	Nets	Special Assessments	District
7	LICENSE	Bradley, Jason	800	Net	Net	NCt3	Nets	Expanded Commercial	MN-2
,		Dradicy, Juson	000					November Cisco	10111 2
9		Spry, Gerald ¹	500				2		MN-3
13		Dahl, Stephen	1,500					Expanded Commercial	MN-1
10			2,000					November Cisco	
15		Hanson, Eric	1,200						MN-1
	Yes	Duemke, Scott							
18		Torgersen, Mark	1,000					Expanded Commercial	MN-1
								November Cisco	
20		Smith, Tyler	2,000	1,000	400			May Lake Trout	MN-3
								Expanded Commercial	
								November Cisco	
21		Axtell, Treg	2,000		400			Expanded Commercial	MN-3
	Yes	Meyer, Molly						November Cisco	
22		Spry, Larry ¹	1,000						MN-3
29		Carlson, Robert	1,200					November Cisco	MN-3
45		Sve, Eric	1,800		400			May Lake Trout	MN-2
	Yes	Sve, Darren						Expanded Commercial	
								November Cisco	
46		Spry, Paul ¹	1,000						MN-3
62		Maxwell, Clint	2,400	2,000	400		1	May Lake Trout	MN-2
								Expanded Commercial	
								November Cisco	
78		Toftey, Harley	2,000						MN-3
79		Fenstad, David	1,000						MN-2
201		Sve, Steven	2,000					Expanded Commercial	MN-2
								November Cisco	
202		Maxwell, Lief	2,400		400			Expanded Commercial	MN-2
								November Cisco	
203		Schliep, Kelly	400		400			Expanded Commercial	MN-2
	Yes	Schliep, Tim							
301		Spry, Chad ¹	1,000						MN-3
302		Spry, Michael ¹	500						MN-3
303		Brisson, Eric	3,000		400			Expanded Commercial	MN-3
	Yes	Larson, Ben						November Cisco	
304		Smith, Zachary	2,000		400			Expanded Commercial	MN-3
								November Cisco	
305		Brisson, Adrianna	2,000		400			November Cisco	MN-3
306		Smith, Sherri	2,000					November Cisco	MN-3

Appendix 1. Commercial operators, apprentices, gear allocation, and special assessments, Minnesota waters of Lake Superior, 2022.

¹ commercial operators who only fished in Reservation waters with permission from the Grand Portage Band of Chippewa

COMMERCIAL FISHING SUMMARY MINNESOTA WATERS OF LAKE SUPERIOR

2022

MINNESOTA DEPARTMENT OF NATURAL RESOURCES DIVISION OF FISH AND WILDLIFE

LAKE SUPERIOR AREA FISHERIES

Prepared by:

Josh Blankenheim

Approved by:_____

Area Supervisor

Approved by:_

Regional Fisheries