



Open-Water Spearing and Netting in the 1837 Minnesota Ceded Territory During the 2006-2007 Quota Year

by

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ABSTRACT

The 2006-2007 quota-year was the ninth year that open-water spear and net fishing was conducted by eight Ojibwa Bands in the 1837 Minnesota ceded territory. A total of 476 Band members participated in the fishery. Mille Lacs was the only lake that received spearing or netting effort. A total of 51,340 fish weighing 83,829 pounds were harvested. Walleye made up approximately 83% of the catch (44,627 fish, 70,388 pounds). Other species harvested included 1,496 northern pike (7,573 pounds), 1,985 yellow perch (1,387 pounds), 526 burbot (865 pounds), and 267 tullibee (263 pounds). Most of the harvest occurred during spring, which included 44,520 walleye weighing 70,075 pounds and 1,438 northern pike weighing 7,205 pounds. Of these walleye, more were taken by gill-netting (41,786 fish, 64,687 pounds) than by spearing (2,734 fish, 5,388 pounds). Average length was 16.9 inches for walleye and 27.4 inches for northern pike; average weight was 1.6 and 5.1 pounds, respectively. The tribal harvest of quota and cap regulated fish species was maintained within established limits through an intensive harvest management system that included daily permits, complete monitoring and daily reporting of the catch, and daily adjustments to quotas.

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INTRODUCTION

A U.S. Supreme Court decision issued on March 24, 1999 reaffirmed the rights of eight Chippewa bands to hunt, fish, and gather off-reservation in the Minnesota area reserved by a treaty with the United States government signed in 1837 (Figure 1). This report presents data for harvest and effort by Chippewa spearmen and gill-netters in 1837 Minnesota ceded territory waters (Figure 2) during the 2006-2007 quota year which ran from April 1, 2006 through March 31, 2007. Mille Lacs was the only lake with harvest and effort. Most of the harvest and effort in Mille Lacs Lake occurred throughout a 26 day period in the spring of 2006 (April 3-28). However, additional harvest and effort occurred in Mille Lacs Lake during the fall (October 6 through November 19) and during early spring of 2007 (March 30).

Eight Chippewa bands actively participated in the 2006-2007 fishery including two Minnesota bands (Mille Lacs and Fond du Lac) and six Wisconsin bands (Bad River, Lac Courte Oreilles, Lac du Flambeau, Mole Lake, Red Cliff, and St. Croix) (Figure 1). During the previous year, a fishery by eight Chippewa bands occurred in which 97,044 pounds of fish including 81,574 pounds of walleye were taken (Milroy et al. 2007).

REGULATIONS

Harvest was strictly regulated and completely monitored under provisions of the "1837 Treaty Conservation Code for the Minnesota Ceded Territory" as amended January 27, 1997. This tribal code contains regulations that govern the use of spears and nets to harvest fish. The code was jointly developed with the State of Minnesota, approved by the federal court, and individually adopted by the Chippewa bands.

The exercise of treaty fishing rights in the 1837 Minnesota ceded territory was also subject to provisions of the "Treaty Fisheries Management Plan for the 1837 Minnesota Ceded Territory for the Years 2003-2007." This harvest management plan established tribal walleye quotas for Mille Lacs Lake for a five year period, beginning with the 2003-2004 quota year. Under this plan, the tribal walleye quota for Mille Lacs Lake in 2003-2004 was set at 100,000 pounds and could increase at a rate of 5,000 pounds annually beginning in 2004 if the collective tribal harvest was 85% or more of the previous year's quota. During the previous year 82% of the walleye quota was harvested. Thus, the tribal walleye quota for 2006-2007 remained at 100,000 pounds.

In addition to the Treaty Conservation Code and Treaty Fisheries Management Plan, a set of protocols were agreed to by the State of Minnesota and its Department of Natural Resources and the Chippewa bands. These protocols identified methods to calculate threshold and harvestable surplus levels for ceded territory waters, established procedures for information exchange, and provided an operational framework for the 1837 Minnesota Ceded Territory Fisheries Committee.

PERMIT SYSTEM AND HARVEST MONITORING

A comprehensive harvest management system based upon daily permits, monitoring of the entire catch, daily reporting, and daily updates of quotas for quota or cap regulated species was used as follows.

Each night that a band intended to spear or net, a tribal representative contacted the Great Lakes Indian Fish and Wildlife Commission (GLIFWC) office in Odanah, Wisconsin around noon to notify staff of the selected lakes, boat landings, and walleye bag limits for spearing. At the same time quotas for walleye and northern pike were updated and the number of permits (Figure 3) that could be issued was determined. For spearing, the number of issuable permits was determined by dividing the remaining tribal walleye quota for spearing in a lake by the nightly bag limit selected for that lake. For netting, the number of issuable permits was determined by dividing the remaining tribal walleye quota for netting by an assigned catch rate value. An assigned catch rate value of 40 pounds of walleye per net was used from ice-out until April 13. The catch rate value was increased to 75 pounds of walleye per net on April 14, reduced to 60 pounds on April 15, reduced to 50 pounds on April 16, reduced to 40 pounds on April 18, raised to 50 pounds on April 19, reduced to 40 pounds on April 20, reduced to 30 pounds on April 21, and finally reduced to 20 pounds on April 22. Tribal members could either pick up a permit at a registration station or a boat landing.

One or more creel clerk-warden teams were assigned to each designated boat landing on Mille Lacs Lake where permits had been or were scheduled to be issued. All off-reservation spearing and netting was monitored by creel teams under the supervision of GLIFWC staff or by Fond du Lac Band wardens and biologists. All on-reservation spearing and netting in Mille Lacs Lake was monitored by creel teams under the supervision of Mille Lacs Band wardens. Prior to the season, written instructions, equipment, data forms, and training were provided to creel clerks and others involved with harvest monitoring and reporting.

For spearing, monitoring teams typically arrived at the designated boat landing before dusk and stayed until spearing ended. Upon the return of each boating party, a catch report form (Appendix A) was completed by a monitoring team to include time spearing started, the time it ended, permit numbers, plus the name and tribal identification number of each spearer. When available, tribal members could be issued one or more additional spearing permits.

For netting, monitoring teams arrived at the designated boat landing or monitoring location prior to scheduled net lift times. Most nets were set in the evening, fished overnight, and lifted the following morning. Lift times and locations were scheduled in advance and written on each permit issued. Nets could be checked at night prior to the designated lift time, fish removed, and then reset but only if monitoring personnel were notified and present at the landing; this occurs rarely. A catch report form was completed for each net lift under each permit.

All fish harvested were to be identified to species, counted, and weighed in the aggregate by species. For spearing, length and sex information were collected from the first 100 walleye plus all walleye in the last boat. Length and sex information were also collected from a sub-sample of netted walleye and for most individuals of other species. For walleye, a sample of spines and otoliths were collected for aging.

Harvest and effort for each lake were totaled by harvest method and reported by around noon the following day to administrative staff at the GLIFWC office in Odanah, Wisconsin. Catch report forms and nightly summary sheets for all spearing and netting that had occurred were also faxed to the GLIFWC office each morning and used to double check reported totals. During spring the total harvest by lake, band, and species was transmitted to tribal and Minnesota Department of Natural Resources (MnDNR) representatives that same day and were used to update walleye tribal quotas. After the spring season, harvest summaries were provided monthly to MnDNR representatives during months with spearing or netting effort. For net lift data collected after and not reported by noon, the number of net lifts outstanding was multiplied by the assigned catch rate, and the total subtracted from a Band's quota until the actual data were reported and could be used.

Figure 1. Map depicting the 1837 ceded territory and eight Chippewa reservations in Wisconsin and Minnesota.

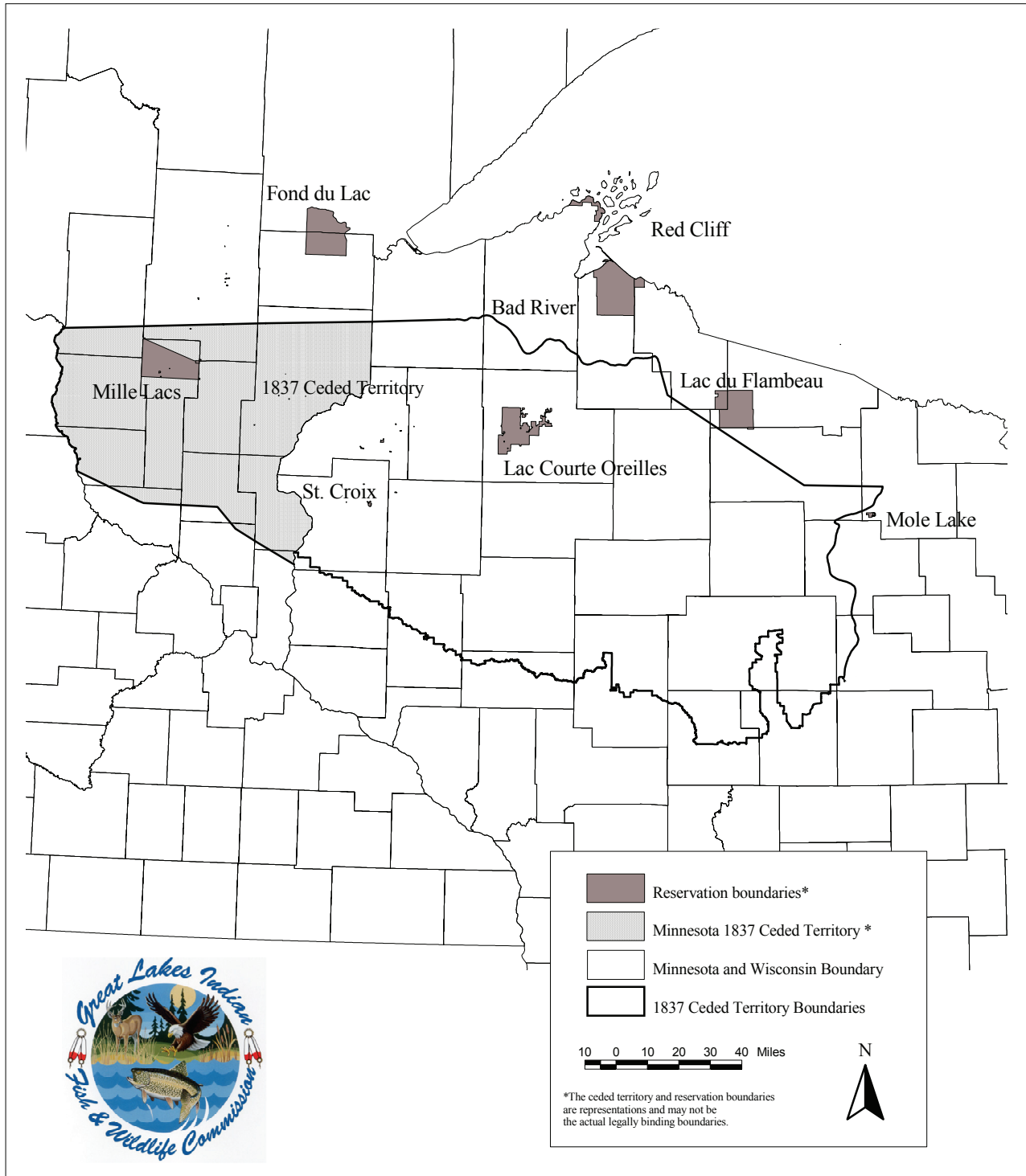


Figure 2. Lakes declared for harvest in the 1837 Minnesota ceded territory during the 2006-2007 quota year.

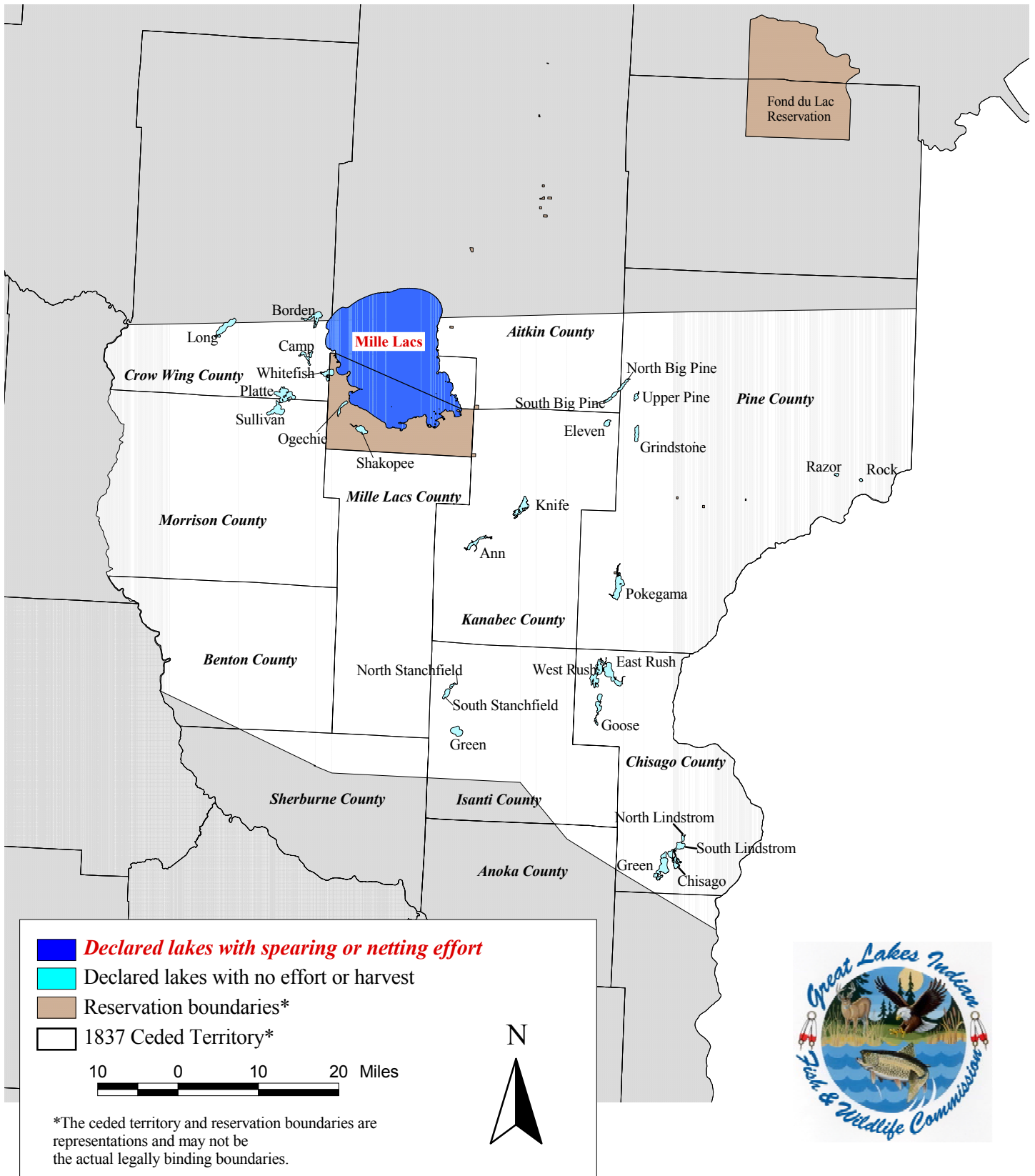


Figure 3. Treaty fishing permit used during the 2006-2007 tribal quota year.

28	29	30	31	Month _____	1	2	3	4	5
27	Off-Reservation Treaty Fishing Permit <input type="checkbox"/> Spearing <input type="checkbox"/> Fyke Netting No 0250 <input type="checkbox"/> Seining <input type="checkbox"/> Gill Netting								6
26	Tribal ID Number _____ of _____ Reservation								7
25	Signature of Permittee: _____								8
24	Issued by: _____ of _____ Reservation								9
23	Water: _____ County: _____								10
22	Bag Limit: Walleye _____ Muskellunge _____								11
21	Other Restrictions: _____								12

FRONT

Spearing Times:		Number of:	
Starting _____	Ending _____	Walleye per boat _____	Musky per boat _____
WALLEYE LENGTHS			
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

BACK

RESULTS AND DISCUSSION

FISHING EFFORT

NUMBER OF PARTICIPANTS

During the 2006-2007 quota year all spearing and netting occurred on Mille Lacs Lake. A total of 476 tribal members speared, netted, or speared and netted during the 2006 spring fishery in Minnesota (Table 1, Appendix B). Of this total, 29% were Mille Lacs Band members, 26% were Fond du Lac Band members, and 46% were from the six Wisconsin bands combined. Compared to 2005, the total number of participants increased by 18 persons or 4%. After the 2006 spring season, only two bands had members who fished. Nine Mille Lacs Band members netted during fall and one netted during early spring 2007. Three St. Croix Band members netted during fall, two of which also speared during fall.

Table 1. Number of tribal members from eight Chippewa bands who speared, netted, or speared and netted during the 2006 spring fishery.

Gear	Mille Lacs	Fond du Lac	Bad River	Lac Courte Oreilles	Lac du Flambeau	Mole Lake	Red Cliff	St. Croix	Total
Spearing only	0	11	1	0	0	0	2	2	16
Netting only	123	48	40	31	57	13	7	37	357
Spearing and Netting	13	64	5	2	15	1	3	0	103
2006 Spring Total	136	123	46	33	73	14	12	39	476
2005 Spring Total	119	128	48	33	56	21	14	39	458
2004 Spring Total	107	153	48	30	57	30	11	42	478
2003 Spring Total	117	136	37	35	41	19	18	39	442
2002 Spring Total	110	108	42	33	55	24	8	39	419
2001 Spring Total	102	91	40	29	40	22	18	29	371
2000 Spring Total	119	99	46	34	45	15	13	32	403
1999 Spring Total	109	21	28	25	21	13	13	17	247
1998 Spring Total	69	34	13	7	15	0	4	10	152

NUMBER OF PERMITS USED

A total of 1,988 permits were used during spring 2006 (Table 2, Appendix B), a 13% decrease from the 2005 spring season. More netting permits (1,659) were used than spearing permits (329). Of the total permits, 25% were used by Mille Lacs Band members, 16% by Fond du Lac Band members, and 59% by Wisconsin band members. After spring 2006 a total of 41 permits were used by Mille Lacs (29 permits) and St. Croix Band (12 permits) members for netting, while 2 permits were used by St. Croix Band members for spearing.

Table 2. Number of permits used by eight Chippewa bands during spring 2006.

Gear	Mille Lacs	Fond du Lac	Bad River	Lac Courte Oreilles	Lac du Flambeau	Mole Lake	Red Cliff	St. Croix	Total
Spearing	40	146	15	6	100	9	9	4	329
Netting	455	171	212	202	221	128	42	228	1,659
2006 Total	495	317	227	208	321	137	51	232	1,988
Percent of 2006 Total	25%	16%	11%	10%	16%	7%	3%	12%	
2005 Total	448	460	243	263	272	176	161	271	2,294
2004 Total	364	489	197	188	289	178	139	245	2,089
2003 Total	438	560	121	172	182	97	79	220	1,869
2002 Total	462	443	97	114	188	132	50	216	1,702
2001 Total	397	274	70	66	89	65	27	93	1,082
2000 Total	441	193	94	67	93	42	28	111	1,069
1999 Total	328	188	54	44	45	47	33	52	794
1998 Total	198	155	43	30	36	0	15	33	510

NUMBER OF DAYS FISHED

Overall, spearing or netting effort occurred on 43 dates during the 2006-2007 quota year (Appendix C). During a 26 day period in spring (April 3-28), spearing effort occurred in Mille Lacs Lake on 9 dates while netting occurred on all 26 dates. During the remainder of the quota year netting occurred in Mille Lacs Lake on 16 dates in fall (October 6 through November 19) and 1 date during early spring 2007 (March 30); spearing occurred on 1 date in fall (October 31).

NUMBER OF BOAT-HOURS

A total of 287.3 boat-hours of spearing effort occurred during the 2006-2007 quota year (Table 3), of which all except 0.75 boat-hours occurred in Mille Lacs Lake during the spring of 2006 (Appendix C). Of the total boat-hour effort Lac du Flambeau spearmen accounted for 36%, Fond du Lac members 29%, and the remaining six Bands 35%.

Table 3. Number of spearing boat-hours by eight Chippewa bands during the 2006-2007 quota year.

Year	Mille Lacs	Fond du Lac	Bad River	Lac Courte Oreilles	Lac du Flambeau	Mole Lake	Red Cliff	St. Croix	Total
2006	52	83.2	10.4	7.8	104.0	11.7	11.7	6.5	287.3
Percent of 2006 Total	18%	29%	4%	3%	36%	4%	4%	2%	
2005	52.3	238.5	15.1	2.3	45.8	0.0	0.0	16.3	370.3
2004	20.3	247.4	3.8	0.0	17.8	6.3	5.5	2.9	303.9
2003	47.4	243.9	11.9	0.0	31.2	2.0	0.0	5.2	341.6
2002	48.7	257.2	1.5	0.0	35.5	7.0	6.5	15.3	371.6
2001	54.9	190.8	15.0	9.0	11.1	8.3	0.0	1.0	290.0
2000	96.8	163.0	6.3	0.0	34.6	0.0	0.0	23.5	324.1
1999	106.9	233.2	8.5	0.0	10.4	7.8	6.4	9.6	382.8
1998	56.0	156.5	15.5	23.6	23.6	0.0	23.1	21.6	319.9

NUMBER OF NET-LIFTS

A total of 1,700 net-lifts occurred in Mille Lacs Lake during the 2006-2007 quota year, of which 1,659 lifts occurred in spring 2006 (Table 4, Appendix D). During spring 2006 most nets set (98%) were 1.75 inch mesh gill-nets. After spring 2006 a total of 41 net-lifts occurred in Mille Lacs Lake by Mille Lacs and St. Croix Band members. Effort occurred during fall and early spring 2007 with 1.75 gill-net mesh used most often (95%).

Table 4. Number of net-lifts by eight Chippewa bands during the 2006-2007 quota year.

Season	Gill-net mesh (bar) (inches)	Mille Lacs	Fond du Lac	Bad River	Lac Courte Oreilles	Lac du Flambeau	Mole Lake	Red Cliff	St. Croix	Total
Spring 2006	1.50	17	0	1	10	2	0	0	0	30
Spring 2006	1.75	438	171	211	192	219	128	42	228	1629
Spring sub-total:		455	171	212	202	221	128	42	228	1659
Fall	1.25	2	0	0	0	0	0	0	0	2
Fall	1.75	26	0	0	0	0	0	0	12	38
Early spring 2007	1.75	1	0	0	0	0	0	0	0	1
2006 Total:		484	171	212	202	221	128	42	240	1,700
2005 Total:		537	213	227	262	177	176	161	265	2,018
2004 Total:		384	261	186	188	222	171	137	240	1,789
2003 Total:		480	238	110	172	151	95	79	209	1,534
2002 Total:		553	217	96	114	137	125	46	196	1,484
2001 Total:		521	73	60	65	73	61	27	96	976
2000 Total:		494	57	91	68	87	42	28	84	951
1999 Total:		427	34	50	44	44	32	28	40	699
1998 Total:		181	41	25	20	24	0	6	22	319

HARVEST

All harvest during the 2006-2007 quota year occurred from Mille Lacs Lake. A total of 51,340 fish (83,829 pounds) from 15 taxa were harvested (Table 5). The majority of harvested fish were walleye, which comprised 44,627 fish or 87% of the total number and 70,388 pounds or 84% of the overall weight. During spring 2006, the weight of walleye harvested exceeded 1,000 pounds on dates from April 12 to April 20 (Figure 4, Appendix F). Northern pike, yellow perch, and sucker were the only other species where harvest exceeded 1,000 pounds. For northern pike 7,573 pounds or 9% of the overall weight was harvested. For yellow perch 1,387 pounds or 2% of the overall weight was taken. For sucker 2,454 pounds or 3% of the overall weight was harvested. Harvest exceeded 200 pounds for four other taxa: tullibee, burbot, smallmouth bass and rock bass.

For seven of the eight fish taxa with more than 200 pounds taken, a greater percent of the total weight was harvested in spring than after spring (Table 5). For walleye and northern pike, the percent of the total weight harvested in spring was 99.6% and 95.1%, respectively. For the six other species with more than 200 pounds taken, the percent harvested in spring was 99.1% for yellow perch, 94% for burbot, 100% for sucker, 100% for smallmouth bass, 99.7% for rock bass, and 6.3% for tullibee.

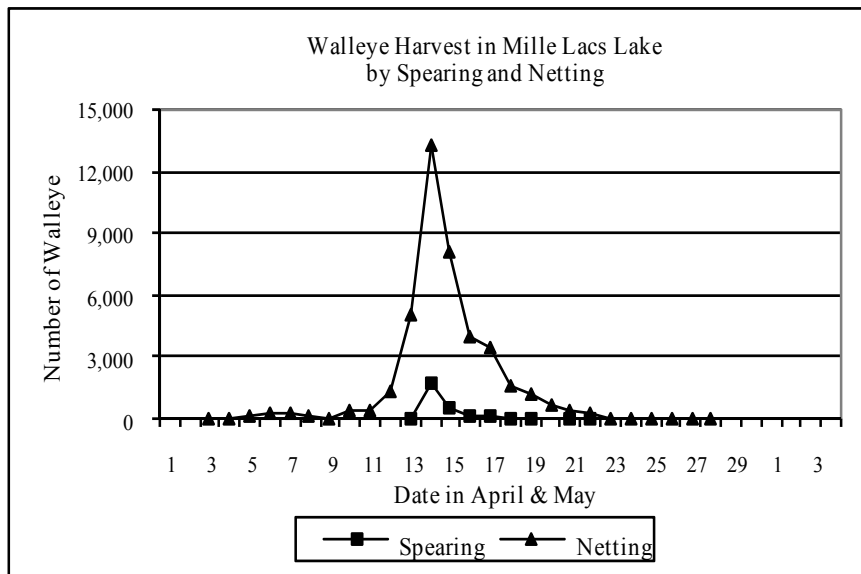
Table 5. Number and pounds of fish harvested in Mille Lacs Lake during and after spring 2006.

Species / Taxa	Spring 2006		After Spring		Total		Percent of Total Pounds in Spring
	Number	Pounds	Number	Pounds	Number	Pounds	
Walleye	44,520	70,075.1	107	313.3	44,627	70,388.4	99.6%
Northern Pike	1,438	7,204.9	58	368.2	1,496	7,573.1	95.1%
Yellow Perch	1,968	1,374.0	17	12.8	1,985	1,386.8	99.1%
Tullibee	15	16.6	252	246.5	267	263.1	6.3%
Burbot	491	813.3	35	52.0	526	865.3	94.0%
Sucker sp.	1,582	2,453.9			1,582	2,453.9	100%
Rock Bass	530	337.1	2	1.0	532	338.1	99.7%
Smallmouth Bass	146	227.4			146	227.4	100%
Bass sp.	3	6.0			3	6.0	
Muskellunge	10	194.8			10	194.8	
Bowfin	5	24.0			5	24.0	
Bullhead sp.	14	15.2	10	7.9	24	23.1	
Black Crappie	129	80.6			129	80.6	
Bluegill	3	2.6			3	2.6	
Sunfish sp.	5	1.8			5	1.8	
Total	50,859	82,827.3	481	1,001.7	51,340	83,829.0	98.8%

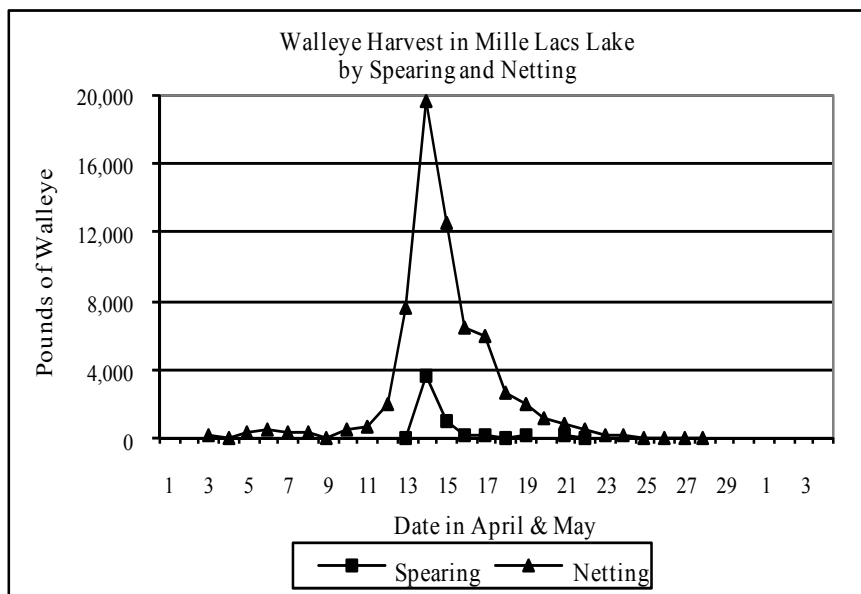
Harvest of five species of fish was regulated by a quota in Mille Lacs Lake (Appendix E). For walleye, 70% of the 100,000 pound quota for the 2006-2007 quota year was taken. For northern pike, 61% of the 12,496 pound quota was harvested. The percent of the quota declared and harvested for each of the three other species (i.e., yellow perch, burbot, and tullibee) was between 1% and 7%.

Figure 4. Number (a) and pounds (b) of walleye harvested daily in Mille Lacs Lake by spearing and netting during spring 2006.

a)



b)



During spring 2006 the majority of harvest from Mille Lacs Lake was with gill-nets (Appendix F). For walleye, the weight harvested was much greater for gill-nets (64,687 pounds) than for spearing (5,388 pounds). The percent of the spring weight harvested with gill-nets was 92.3% for walleye, 100% for northern pike, 99.9% for yellow perch, and 100% for both burbot and tullibee. No commercial permits were issued during the 2006-2007 quota year.

CATCH PER EFFORT (CPE)

During spring 2006 a total of 286.6 boat-hours of spearing was recorded in which 2,734 walleye weighing 5,388.1 pounds were speared (Table 3, Appendix F). Overall catch per effort (total harvest / total boat-hours) for walleye during spring was 9.5 fish and 18.8 pounds per boat-hour.

For gill-netting during spring 2006, a total of 1,659 net-lifts were recorded in which 41,786 walleye weighing 64,687 pounds were caught (Appendix D). Overall catch per effort (total harvest / total net-lifts) for walleye was 25.2 fish and 39.0 pounds per net-lift (Figures 5 and 6). For 1¾ inch mesh gill-nets a total of 1,629 net-lifts were observed in which 40,635 walleye weighing 63,234 pounds were harvested. The walleye catch per effort for 1¾ inch mesh gill-nets was 24.9 fish and 38.8 pounds. For 1½ inch mesh gill-nets a total of 30 net-lifts were recorded in which 1,151 walleye weighing 1,453 pounds were taken. The walleye catch per effort for 1½ inch mesh gill-nets was 38.4 fish and 48.4 pounds. There were no 1¼ inch mesh gill nets set during spring of 2006.

Figure 5. Gill-net catch per effort (CPE) in numbers for walleye harvested from Mille Lacs Lake during spring 2006.

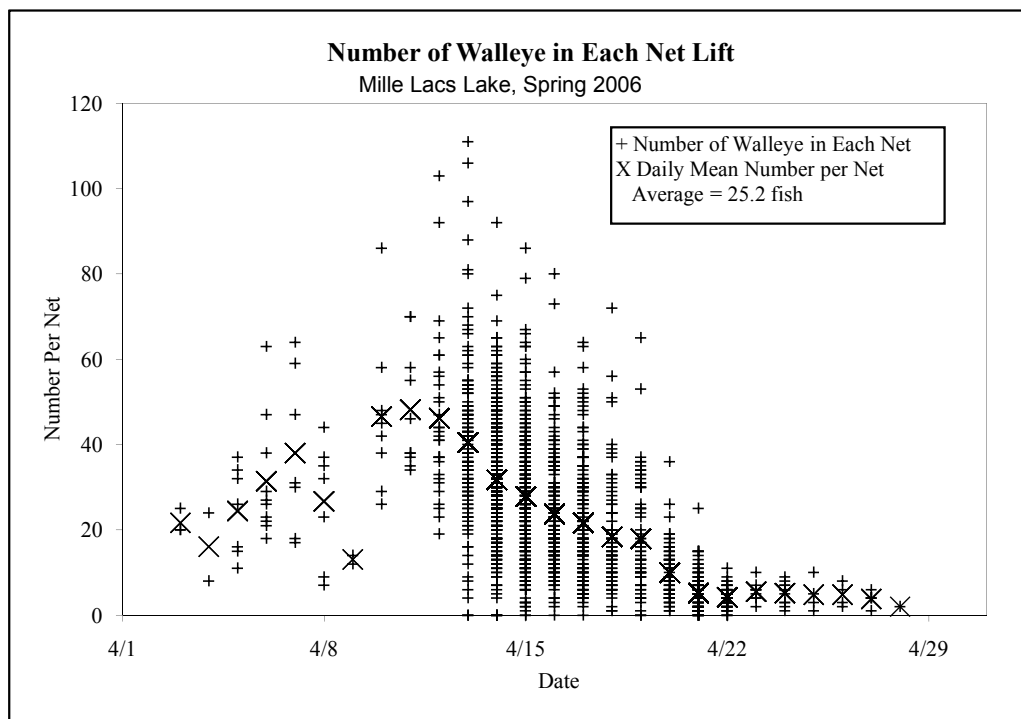
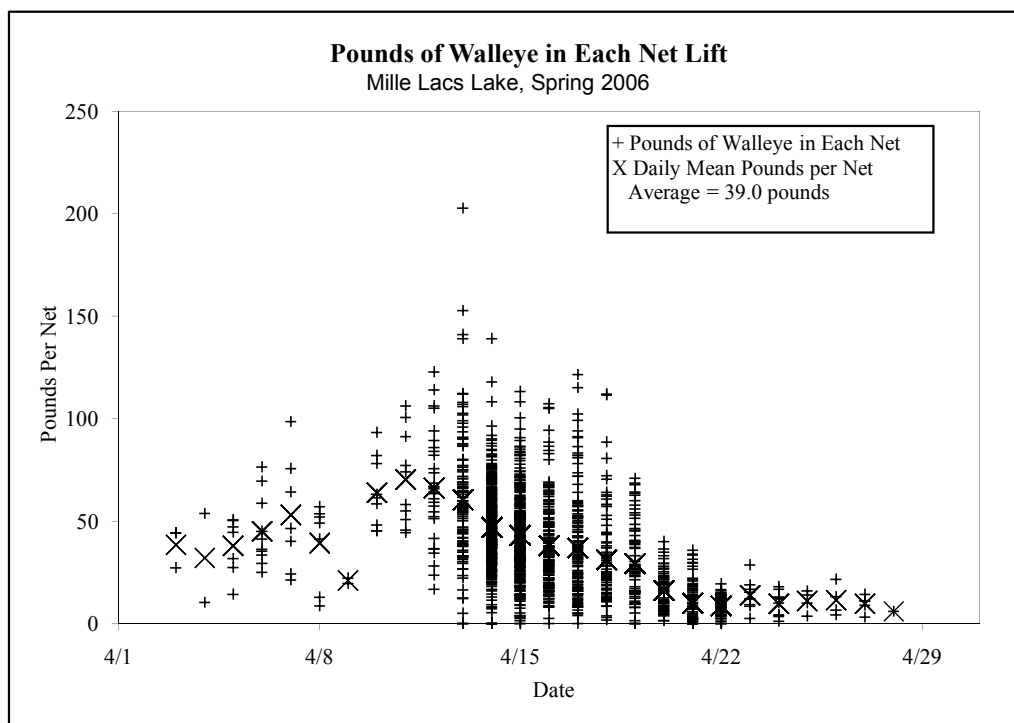


Figure 6. Gill-net catch per effort (CPE) in pounds for walleye harvested from Mille Lacs Lake during spring 2006.

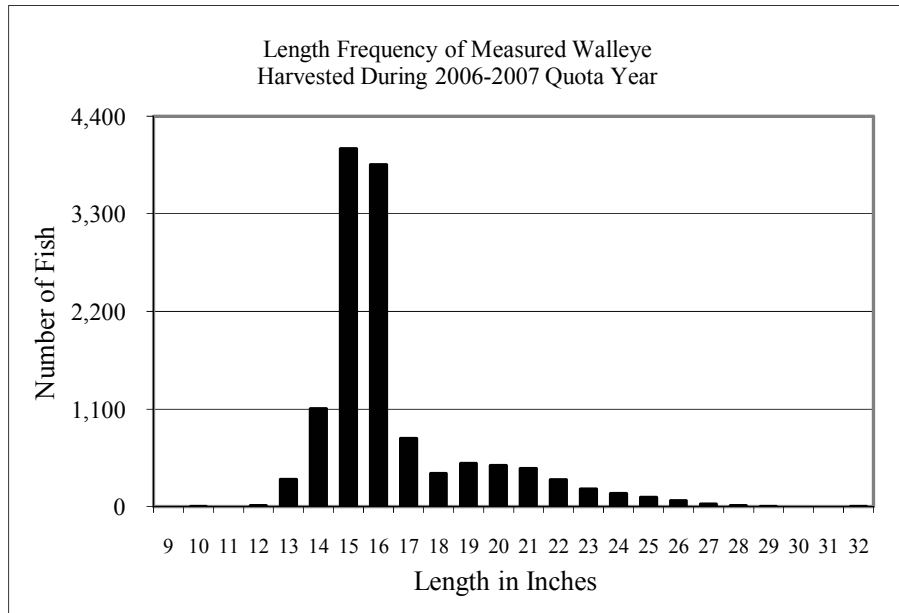


WALLEYE MEAN LENGTH AND WEIGHT

Length was measured for a total of 12,703 walleye (44% of the catch) (Figure 7) and aggregate weight was recorded for all 44,627 walleye harvested (Appendix G). Mean length of measured walleye was 16.9 inches and mean weight was 1.6 pounds.

For walleye harvested during spring 2006, mean length of measured walleye and mean weight were: 15.3 inches and 1.3 pounds for 1½ inch mesh net, 16.9 inches and 1.6 pounds for 1¾ inch mesh net, and 17.3 inches and 2.0 pounds for spearing (Appendix G). Most walleye (91% of the catch) were harvested in spring with 1¾ inch mesh net.

Figure 7. Length frequency of measured walleye during the 2006-2007 quota year.



SEX COMPOSITION OF THE WALLEYE CATCH

During the 2006-2007 quota year, 12,345 walleye were measured and sex determined (Appendix G). The majority of the sexable walleye were male: 11,715 fish or 95%. Females (630 fish) comprised 5% of the sexable harvest. Sex was not determined for 358 walleye.

For walleye harvested during spring 2006, sex ratios (male:female) by gear were: 106:1 in 1½ inch mesh net, 25:1 in 1¾ inch mesh net, and 8:1 by spearing (Appendix G). For all gear combined mean length was 16.5 inches for male and 23.0 inches for female walleye (Figure 8). Respective mean lengths for male and female walleye by gear were: 15.2 and 21.7 inches for 1½ inch mesh net, 16.6 and 22.2 inches for 1¾ inch mesh net, and 16.5 and 24.0 inches by spearing (Figure 9).

Figure 8. Estimated number of male and female walleye harvested per inch group during spring 2006.

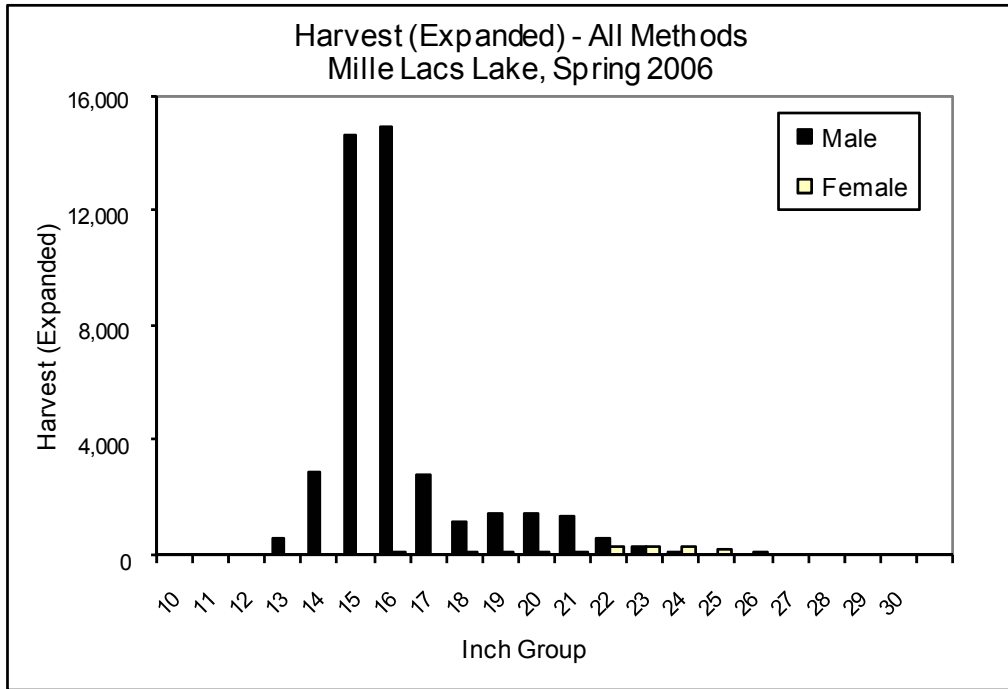
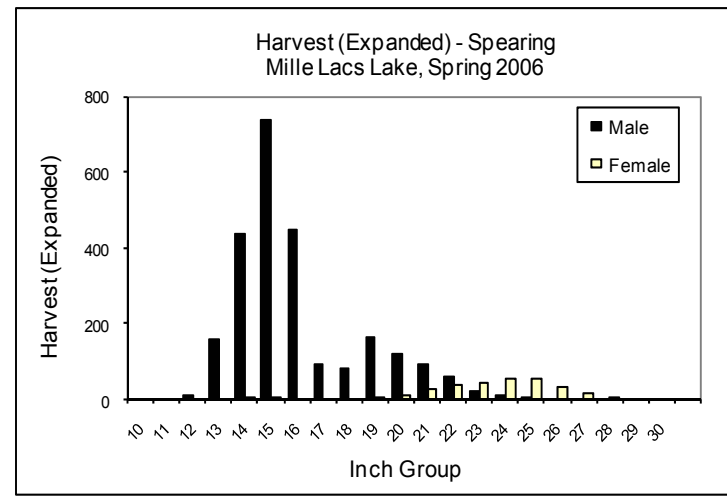
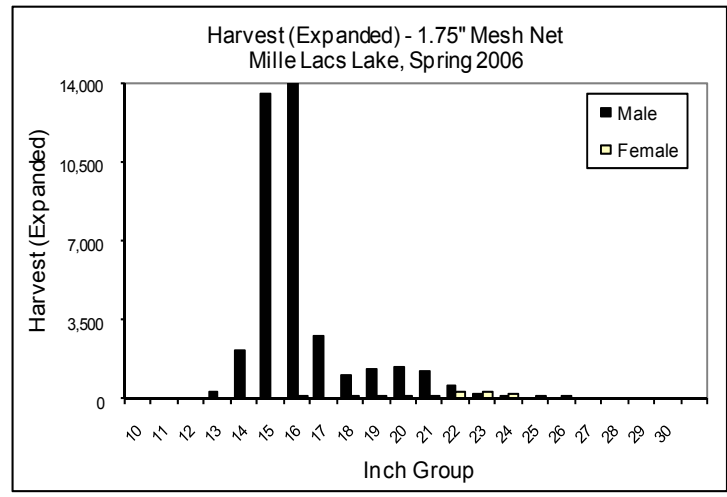
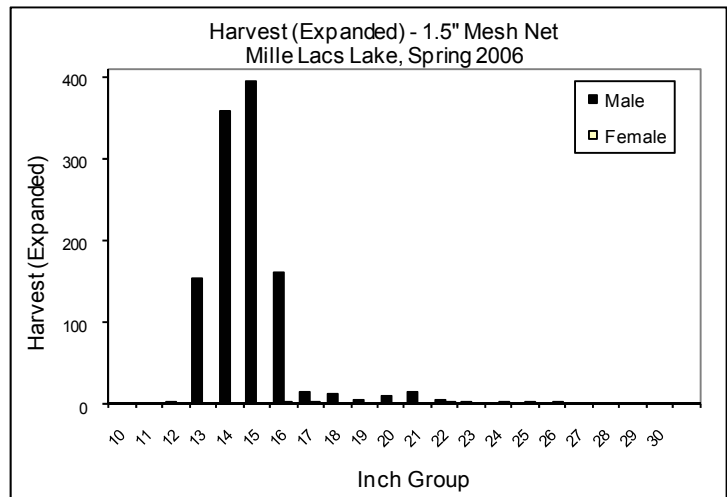


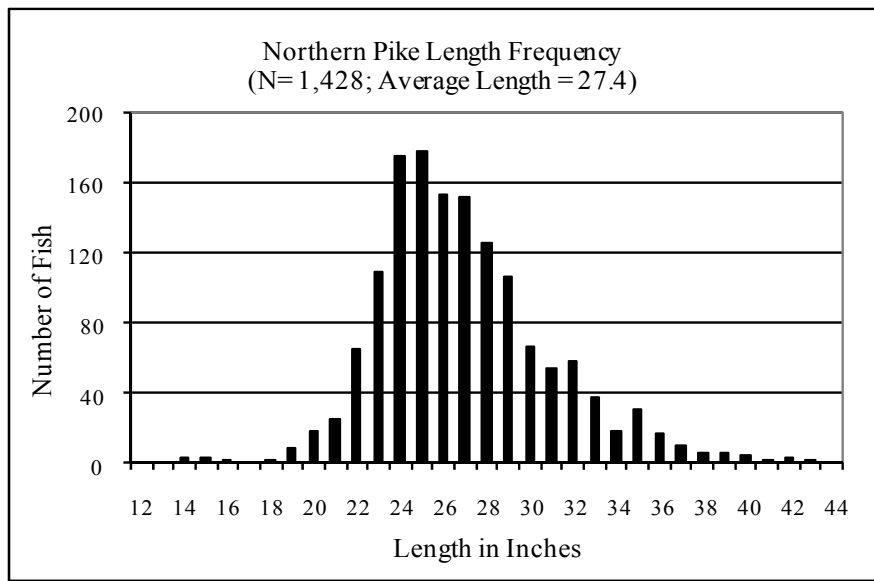
Figure 9. Estimated number of male and female walleye harvested per inch group with 1½ and 1¾ inch (bar mesh) gill-nets and spears from Mille Lacs Lake during spring 2006.



NORTHERN PIKE HARVEST

A total of 1,496 northern pike weighing 7,573 pounds were harvested from Mille Lacs Lake during the 2006-2007 quota year (Appendix H). Most northern pike were harvested with 1¾ inch gill-nets (1,475 fish, 7,460 pounds) and most of these were taken in spring 2006 (1,419 fish, 7,124 pounds). Average weight of all northern pike harvested was 5.1 pounds. Of the 1,428 northern pike with length measured the average length was 27.4 inches (Figure 10). For the 922 sexable northern pike, 58% were male and 42% were female. Average length was 26.0 inches for males and 28.7 inches for females. Overall, 61% of the northern pike quota was harvested (Appendices E and F).

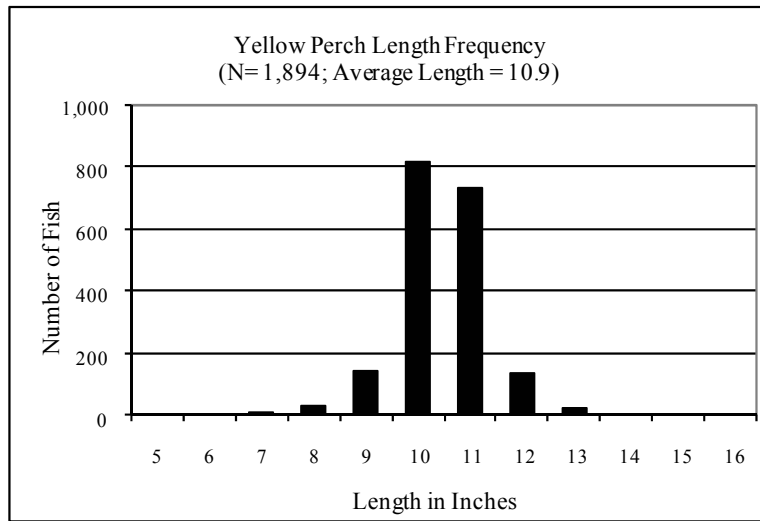
Figure 10. Length frequency of measured northern pike harvested during the 2006-2007 quota year.



YELLOW PERCH HARVEST

A total of 1,985 yellow perch weighing 1,387 pounds were harvested from Mille Lacs Lake, with an average weight of 0.7 pounds (Appendix I). The majority of yellow perch (97%) were harvested during spring 2006 in 1.75 inch gill-nets. Of the 1,894 yellow perch with length measured, average length was 10.9 inches (Figure 11). For the 1,732 sexable yellow perch, 61% were male and 39% were female, with an average length of 11.0 inches for males and 10.9 inches for females. Overall, 1.3% of the yellow perch quota was harvested (Appendices E and F).

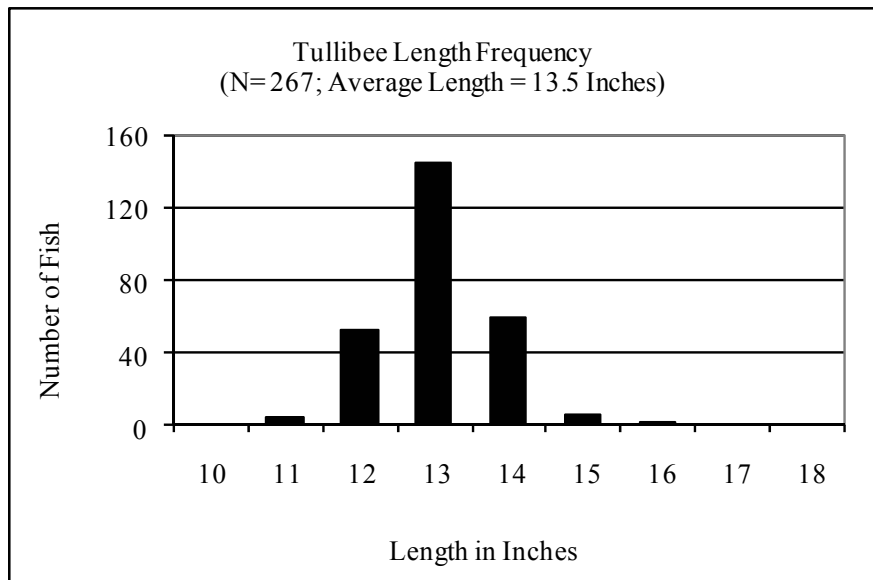
Figure 11. Length frequency of measured yellow perch harvested from Mille Lacs Lake during the 2006-2007 quota year.



TULLIBEE HARVEST

A total of 267 tullibee (aka. cisco) weighing 263 pounds, with an average weight of 1 pound, were harvested from Mille Lacs Lake during the 2006-2007 quota year (Appendix J). The majority of tullibee (93%) were taken after spring in 1¾ inch gill-nets. All tullibee were measured for length and the average length was 13.5 inches (Figure 12). Overall, 2.2% of the tullibee quota was harvested (Appendices E and F).

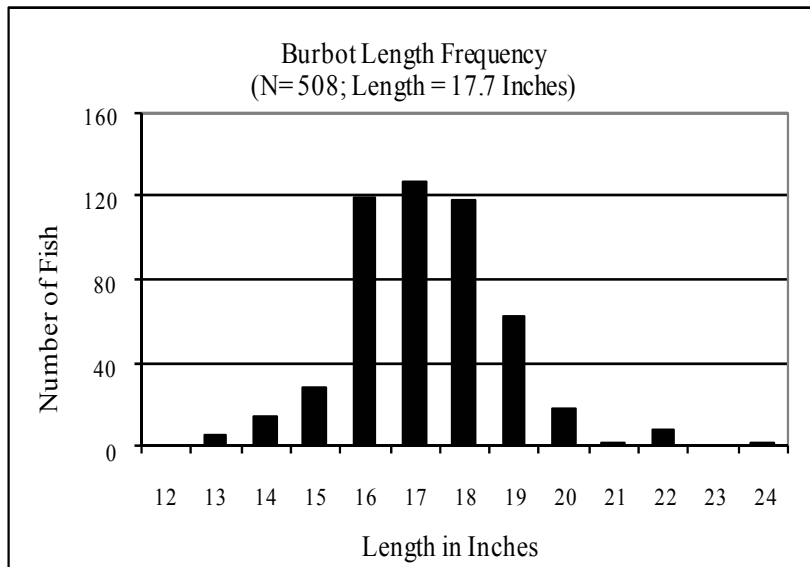
Figure 12. Length frequency of measured tullibee harvested from Mille Lacs Lake during the 2006-2007 quota year.



BURBOT HARVEST

A total of 526 burbot weighing 865 pounds were harvested from Mille Lacs Lake with an average weight of 1.6 pounds (Appendix K). The majority of burbot (93%) were taken during spring 2006 in 1.75 inch gill-nets. Of the 508 burbot with length measured, average length was 17.7 inches (Figure 13). Overall, 6.6% of the burbot quota was harvested (Appendices E and F).

Figure 13. Length frequency of measured burbot harvested from Mille Lacs Lake during the 2006-2007 quota year.



ACKNOWLEDGMENTS

The authors extend a “Meegwich” to everyone that assisted with monitoring the fishery. We would like to thank Leanne Thannum and Kim Campy for their diligence in compiling nightly harvest statistics, in providing these data to tribal and MnDNR representatives, and in updating each day the list of quotas for each species, along with the adjusted quota, the bag limits, and the number of permits available for each band. In addition, we thank tribal fisheries biologists, tribal wardens, fisheries technicians, and creel clerks who helped to compile harvest data each day. We also appreciate the tribal members who fished and patiently allowed the monitoring of the catch. Finally, we would like to offer a “Pilamaya” to Neil Kmiecik for editing this report.

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Appendix A.

CATCH REPORT FORM: MINNESOTA

LAKE	START TIME (am or pm)	SPEARING
COUNTY	END TIME (am or pm)	NET ID#
LANDING		LENGTH
PERMIT ISSUE DATE (mm/dd/yy)		MESH

PERMIT #			
NAME			
TRIBAL ID #			

SPECIES			SPECIES			SPECIES			SPECIES		
LENGTH (INCHES)	SEX (M,F,U)	TAG #	LENGTH (INCHES)	SEX (M,F,U)	TAG #	LENGTH (INCHES)	SEX (M,F,U)	TAG #	LENGTH (INCHES)	SEX (M,F,U)	TAG #
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
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21											
22											
23											
24											
25											
26											
27											
28											
29											
30											

TOTAL WEIGHT (POUNDS)	TOTAL WEIGHT (POUNDS)	TOTAL WEIGHT (POUNDS)	TOTAL WEIGHT (POUNDS)
-----------------------	-----------------------	-----------------------	-----------------------

HOW MANY NETS DO YOU HAVE PERMITS FOR? _____ WERE ANY NORTHERN PIKE RELEASED FROM YOUR NETS? YES NO IF YES, HOW MANY NORTHERN PIKE DID YOU RELEASE? _____	NOT AVAILABLE _____ NO RESPONSE _____ ALREADY INTERVIEWED _____
---	---

MONITORING TEAM

IF NECESSARY USE ADDITIONAL SHEETS TO RECORD SPECIES, LENGTH, SEX, AND AGGREGATE WEIGHT OF ALL FISH HARVESTED BY PERMITTEE

COMMERCIAL PERMIT	SHEET _____ OF _____	TRIBE
-------------------	----------------------	-------

Appendix B. Number of members per band that speared, netted, or speared and netted one or more nights during the 2006 spring fishery.¹ Also, number of permits issued for spearing and netting.

Number of Nights	MIL	FDL	BRV	LCO	LDF	MLK	RCF	STC	Total:	Percent of Total:	Cumulative Percent:
Spearing Only											
1		11	1				2	2	16	100.0%	100.0%
Total Members		11	1				2	2	16	100%	100%
Total Permits		18	2				4	4	28		
Netting Only											
Number of Nights	MIL	FDL	BRV	LCO	LDF	MLK	RCF	STC	Total:	Percent of Total:	Cumulative Percent:
1	32	34	20	11	13	1	5	13	129	36.1%	36.1%
2	33	14	16	10	36	6	2	10	127	35.6%	71.7%
3	16		2	7	6	1		6	38	10.6%	82.4%
4	16		1	2	3	2		3	27	7.6%	89.9%
5	9			1		1		3	14	3.9%	93.8%
6	1		1			2		2	6	1.7%	95.5%
7	4								4	1.1%	96.6%
8	4								4	1.1%	97.8%
9	2								2	0.6%	98.3%
10	3								3	0.8%	99.2%
11	1								1	0.3%	99.4%
12										0.0%	99.4%
13	1								1	0.3%	99.7%
14	1								1	0.3%	100.0%
15										0.0%	100.0%
Total Members	123	48	40	31	58	13	7	37	357	100.0%	100%
Total Permits	407	62	182	176	164	116	32	228	1,367		
Spearing and Netting											
Number of Nights	MIL	FDL	BRV	LCO	LDF	MLK	RCF	STC	Total:	Percent of Total:	Cumulative Percent:
1		38	2						40	38.8%	38.8%
2	4	25	1		11		3		44	42.7%	81.6%
3	3		1		3				7	6.8%	88.3%
4	2	1	1	1	1	1			7	6.8%	95.1%
5	3			1					4	3.9%	99.0%
6										0.0%	99.0%
7										0.0%	99.0%
8	1								1	1.0%	100.0%
Total Members	13	64	5	2	15	1	3		103	100.0%	100%
Spearing Permits	40	128	13	6	100	9	5		301		
Netting Permits	48	109	30	26	57	12	10		292		
Total Permits	88	237	43	32	157	21	15		593		
Grand Total											
Members	136	123	46	33	73	14	12	39	476		
Spearing Permits	40	146	15	6	100	9	9	4	329		
Netting Permits	455	171	212	202	221	128	42	228	1,659		
Total Permits	495	317	227	208	321	137	51	232	1,988		

¹ After spring 2006, 40 permits were issued for netting in fall and 1 permit was issued for netting in early spring 2007 (Appendix F).

Appendix C. Dates during the 2006-2007 quota year with spearing or netting effort in Mille Lacs Lake.

Month	Harvest Method	Date																															Total				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
April	Net			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							26	
April	Spear												X	X	X	X	X	X	X		X	X														9	
October	Net						X	X	X				X	X	X							X						X					X	X		10	
October	Spear																																		X		1
November	Net							X						X	X	X	X				X																6
March	Net																																	X		1	

Appendix D. Number of net-lifts per gill-net mesh, walleye harvest in numbers and pounds, and CPE (catch per effort) for netting in Mille Lacs Lake during spring 2006. Weekend periods (Friday and Saturday) beginning on Friday April 1 are noted.

Permit Date	1.5 inch mesh (bar)					1.75 inch mesh (bar)					Total: 1.5 and 1.75 inch mesh				
	No. Lifts	Total Number	Total Pounds	CPE: Number/Net-Lift	CPE: Pounds/Net-Lift	No. Lifts	Total Number	Total Pounds	CPE: Number/Net-Lift	CPE: Pounds/Net-Lift	No. Lifts	Total Number	Total Pounds	CPE: Number/Net-Lift	CPE: Pounds/Net-Lift
April 1															
April 2															
April 3						3	65	115.6	21.7	38.5	3	65	115.6	21.7	38.5
April 4						2	32	64.2	16.0	32.1	2	32	64.2	16.0	32.1
April 5	1	16	31.8	16.0	31.8	6	155	234.3	25.8	39.1	7	171	266.1	24.4	38.0
April 6						10	314	450.4	31.4	45.0	10	314	450.4	31.4	45.0
April 7	2	106	139.8	53.0	69.9	5	160	230.6	32.0	46.1	7	266	370.4	38.0	52.9
April 8						7	187	274.2	26.7	39.2	7	187	274.2	26.7	39.2
April 9						2	26	41.8	13.0	20.9	2	26	41.8	13.0	20.9
April 10	2	134	154.6	67.0	77.3	7	285	420.6	40.7	60.1	9	419	575.2	46.6	63.9
April 11						10	481	703.2	48.1	70.3	10	481	703.2	48.1	70.3
April 12	2	195	228.0	97.5	114.0	28	1,191	1,753.8	42.5	62.6	30	1,386	1,981.8	46.2	66.1
April 13	1	4	5.0	4.0	5.0	125	5,098	7,587.9	40.8	60.7	126	5,102	7,592.9	40.5	60.3
April 14	5	172	193.6	34.4	38.7	415	13,153	19,481.2	31.7	46.9	420	13,325	19,674.8	31.7	46.8
April 15	11	395	529.8	35.9	48.2	282	7,750	12,110.4	27.5	42.9	293	8,145	12,640.2	27.8	43.1
April 16						171	4,048	6,502.8	23.7	38.0	171	4,048	6,502.8	23.7	38.0
April 17						161	3,485	5,936.4	21.6	36.9	161	3,485	5,936.4	21.6	36.9
April 18						85	1,563	2,650.2	18.4	31.2	85	1,563	2,650.2	18.4	31.2
April 19						69	1,235	2,018.0	17.9	29.2	69	1,235	2,018.0	17.9	29.2
April 20	3	81	89.3	27.0	29.8	64	588	994.0	9.2	15.5	67	669	1,083.3	10.0	16.2
April 21	3	48	81.5	16.0	27.2	88	424	810.9	4.8	9.2	91	472	892.4	5.2	9.8
April 22						55	229	477.9	4.2	8.7	55	229	477.9	4.2	8.7
April 23						9	50	124.0	5.6	13.8	9	50	124.0	5.6	13.8
April 24						11	57	107.2	5.2	9.7	11	57	107.2	5.2	9.7
April 25						4	19	43.6	4.8	10.9	4	19	43.6	4.8	10.9
April 26						4	19	45.6	4.8	11.4	4	19	45.6	4.8	11.4
April 27						5	19	48.8	3.8	9.8	5	19	48.8	3.8	9.8
April 28						1	2	6.0	2.0	6.0	1	2	6.0	2.0	6.0
April 29															
April 30															
Total:	30	1,151	1453.4	38.4	48.4	1,629	40,635	63,233.6	24.9	38.8	1,659	41,786	64,687.0	25.2	39.0

NOTE: There were no 1.25" mesh nets during the 2006-2007 quota year.

Appendix E. Quota, harvest, and percent of quota harvested by band and overall for five fish species in Mille Lacs Lake during the 2006-2007 quota year.

Species		BAND								Bands Combined
		Mille Lacs	Fond du Lac	Bad River	Lac Courte Oreilles	Lac du Flambeau	Mole Lake	Red Cliff	St. Croix	
Walleye	Quota (Pounds)	32,121	10,354	9,286	9,286	11,095	9,286	9,286	9,286	100,000
	Pounds Harvested	19,201.0	10,353.5	9,201.1	7,442.8	11,095.2	4,556.9	1,359.0	7,178.9	70,388.4
	Number Harvested	12,194	6,472	5,966	4,900	6,860	2,806	831	4,598	44,627
	Percent of Quota Harvested	59.8%	100.0%	99.1%	80.2%	100.0%	49.1%	14.6%	77.3%	70.4%
Northern Pike	Quota (Pounds)	6,775	703	1,003	803	818	788	803	803	12,496
	Pounds Harvested	3,621.6	308.6	980.0	559.0	797.0	584.8	152.6	569.5	7,573.1
	Number Harvested	686	66	193	125	167	117	28	114	1,496
	Percent of Quota Harvested	53.5%	43.9%	97.7%	69.6%	97.4%	74.2%	19.0%	70.9%	60.6%
Yellow Perch	Quota (Pounds)	40,000	1,000	5,714	5,714	10,000	12,000	22,500	10,000	106,928
	Pounds Harvested	427.5	62.7	201.0	117.0	141.2	159.7	128.4	149.3	1,386.8
	Number Harvested	593	84	281	163	200	268	184	212	1,985
	Percent of Quota Harvested	1.1%	6.3%	3.5%	2.0%	1.4%	1.3%	0.6%	1.5%	1.3%
Tullibee	Quota (Pounds)	5,000	1,000	857	857	1,600	857	714	857	11,742
	Pounds Harvested	153.1		2.2	0.8	3.4	3.2	2.0	98.4	263.1
	Number Harvested	160		2	1	3	3	2	96	267
	Percent of Quota Harvested	3.1%	0.0%	0.3%	0.1%	0.2%	0.4%	0.3%	11.5%	2.2%
Burbot	Quota (Pounds)	7,000	1,000	1,000	1,000	200	1,000	1,000	1,000	13,200
	Pounds Harvested	212.0	30.0	117.7	79.8	39.4	96.6	8.0	281.8	865.3
	Number Harvested	121	18	66	52	23	64	5	177	526
	Percent of Quota Harvested	3.0%	3.0%	11.8%	8.0%	19.7%	9.7%	0.8%	28.2%	6.6%

Appendix F. Number and pounds of five fish species harvested by eight Chippewa bands (combined and separately) from Mille Lacs Lake during the 2006-2007 quota year. Data are sorted by season (spring and after spring 2006), by harvest method (spearing or netting) and by date.

----- TRIBE=BAD RIVER -----

VALUE	WALLEYE	NORTHERN PIKE	YELLOW PERCH	CISCO	BURBOT
INITIAL QUOTA	9,286.0	803.0	5,714.0	857.0	1,000.0
REVISED QUOTA	9,286.0	1,003.0	5,714.0	857.0	1,000.0
HARVEST	-9,201.1	-980.0	-201.0	-2.2	-117.7
BALANCE	84.9	23.0	5,513.0	854.8	882.3

----- TRIBE=FOND DU LAC -----

VALUE	WALLEYE	NORTHERN PIKE	YELLOW PERCH	CISCO	BURBOT
INITIAL QUOTA	9,286.0	803.0	1,000.0	1,000.0	1,000.0
REVISED QUOTA	10,353.5	703.0	1,000.0	1,000.0	1,000.0
HARVEST	-10,353.5	-308.6	-62.7	.	-30.0
BALANCE	0.0	394.4	937.3	1,000.0	970.0

----- TRIBE=LAC COURTE OREILLES -----

VALUE	WALLEYE	NORTHERN PIKE	YELLOW PERCH	CISCO	BURBOT
INITIAL QUOTA	9,286.0	803.0	5,714.0	857.0	1,000.0
REVISED QUOTA	9,286.0	803.0	5,714.0	857.0	1,000.0
HARVEST	-7,442.8	-559.0	-117.0	-0.8	-79.8
BALANCE	1,843.2	244.0	5,597.0	856.2	920.2

Appendix F. Continued

----- TRIBE=LAC DU FLAMBEAU -----

VALUE	WALLEYE	NORTHERN PIKE	YELLOW PERCH	CISCO	BURBOT
INITIAL QUOTA	9,286.0	803.0	10,000.0	1,600.0	200.0
REVISED QUOTA	11,095.2	818.2	10,000.0	1,600.0	200.0
HARVEST	-11,095.2	-797.0	-141.2	-3.4	-39.4
BALANCE	0.0	21.2	9,858.8	1,596.6	160.6

----- TRIBE=MILLE LACS -----

VALUE	WALLEYE	NORTHERN PIKE	YELLOW PERCH	CISCO	BURBOT
INITIAL QUOTA	34,998.0	6,875.0	40,000.0	5,000.0	7,000.0
REVISED QUOTA	32,121.3	6,775.0	40,000.0	5,000.0	7,000.0
HARVEST	-19,201.0	-3,621.6	-427.5	-153.1	-212.0
BALANCE	12,920.3	3,153.4	39,572.5	4,846.9	6,788.0

----- TRIBE=MOLE LAKE -----

VALUE	WALLEYE	NORTHERN PIKE	YELLOW PERCH	CISCO	BURBOT
INITIAL QUOTA	9,286.0	803.0	12,000.0	857.0	1,000.0
REVISED QUOTA	9,286.0	787.8	12,000.0	857.0	1,000.0
HARVEST	-4,556.9	-584.8	-159.7	-3.2	-96.6
BALANCE	4,729.1	203.0	11,840.3	853.8	903.4

Appendix F. Continued

----- TRIBE=RED CLIFF -----

VALUE	WALLEYE	NORTHERN PIKE	YELLOW PERCH	CISCO	BURBOT
INITIAL QUOTA	9,286.0	803.0	22,500.0	714.0	1,000.0
REVISED QUOTA	9,286.0	803.0	22,500.0	714.0	1,000.0
HARVEST	-1,359.0	-152.6	-128.4	-2.0	-8.0
BALANCE	7,927.0	650.4	22,371.6	712.0	992.0

----- TRIBE=ST CROIX -----

VALUE	WALLEYE	NORTHERN PIKE	YELLOW PERCH	CISCO	BURBOT
INITIAL QUOTA	9,286.0	803.0	10,000.0	857.0	1,000.0
REVISED QUOTA	9,286.0	803.0	10,000.0	857.0	1,000.0
HARVEST	-7,178.9	-569.5	-149.3	-98.4	-281.8
BALANCE	2,107.1	233.5	9,850.7	758.6	718.2

----- TRIBE=TOTAL -----

VALUE	WALLEYE	NORTHERN PIKE	YELLOW PERCH	CISCO	BURBOT
INITIAL QUOTA	100,000.0	12,496.0	106,928.0	11,742.0	13,200.0
REVISED QUOTA	100,000.0	12,496.0	106,928.0	11,742.0	13,200.0
HARVEST	-70,388.4	-7,573.1	-1,386.8	-263.1	-865.3
BALANCE	29,611.6	4,922.9	105,541.2	11,478.9	12,334.7

Appendix F. Continued

----- TRIBE=BAD RIVER -----

GEAR	DATATYPE	DATE	WALLEYE (#)	WALLEYE (LBS)	N PIKE (#)	N PIKE (LBS)	Y PERCH (#)	Y PERCH (LBS)	CISCO (#)	CISCO (LBS)	BURBOT (#)	BURBOT (LBS)	PERMITS	WALLEYE (LBS)/PERMIT
NET		04/13/2006	3,260	4,819.0	85	467.6	26	19.2	.	.	8	10.4	79	61.0
NET		04/14/2006	1,379	2,132.2	33	143.8	24	16.3	.	.	5	8.0	47	45.4
NET		04/15/2006	456	694.0	33	148.0	10	6.8	.	.	9	13.8	26	26.7
NET		04/16/2006	343	582.6	11	54.6	49	40.5	1	1.2	5	9.1	17	34.3
NET		04/17/2006	169	292.2	6	25.8	7	4.6	.	.	1	1.8	9	32.5
NET		04/18/2006	75	133.6	12	78.0	4	2.6	.	.	.	.	6	22.3
NET		04/21/2006	51	88.6	6	24.0	10	7.6	1	1.0	1	1.6	8	11.1
NET		04/22/2006	16	27.0	1	3.6	.	.	.	.	.	.	6	4.5
NET		04/23/2006	39	106.4	5	29.8	46	32.8	.	.	22	46.0	7	15.2
NET		04/24/2006	38	73.6	1	4.8	105	70.6	.	.	15	27.0	7	10.5
NET	TOTAL	.	5,826	8,949.2	193	980.0	281	201.0	2	2.2	66	117.7	212	42.2
SPEAR		04/13/2006	40	63.4	.	.	.	.	.	.	.	.	4	15.9
SPEAR		04/16/2006	90	161.2	.	.	.	.	.	.	.	.	9	17.9
SPEAR		04/22/2006	10	27.3	.	.	.	.	.	.	.	.	2	13.7
SPEAR	TOTAL	.	140	251.9	.	.	.	.	.	.	.	.	15	16.8
TOTAL	TOTAL	.	5,966	9,201.1	193	980.0	281	201.0	2	2.2	66	117.7	227	40.5

----- TRIBE=FOND DU LAC -----

GEAR	DATATYPE	DATE	WALLEYE (#)	WALLEYE (LBS)	N PIKE (#)	N PIKE (LBS)	Y PERCH (#)	Y PERCH (LBS)	CISCO (#)	CISCO (LBS)	BURBOT (#)	BURBOT (LBS)	PERMITS	WALLEYE (LBS)/PERMIT
NET		04/14/2006	3,358	4,890.4	34	145.2	44	32.2	.	.	11	18.4	106	46.1
NET		04/15/2006	1,342	2,186.8	18	106.6	27	20.6	.	.	6	10.2	49	44.6
NET		04/16/2006	199	317.8	8	30.0	4	2.8	.	.	.	.	8	39.7
NET		04/17/2006	122	201.8	6	26.8	7	5.9	.	.	1	1.4	8	25.2

Appendix F. Continued

----- TRIBE=FOND DU LAC -----

(continued)

GEAR	DATATYPE	DATE	WALLEYE (#)	WALLEYE (LBS)	N PIKE (#)	N PIKE (LBS)	Y PERCH (#)	Y PERCH (LBS)	CISCO (#)	CISCO (LBS)	BURBOT (#)	BURBOT (LBS)	PERMITS	WALLEYE (LBS)/PERMIT
NET	TOTAL	.	5,021	7,596.8	66	308.6	82	61.5	.	.	18	30.0	171	44.4
SPEAR		04/14/2006	1,036	2,036.3	.	.	2	1.2	.	.	.	.	108	18.9
SPEAR		04/15/2006	415	720.4	.	.	.	.	.	.	.	.	38	19.0
SPEAR	TOTAL	.	1,451	2,756.7	.	.	2	1.2	.	.	.	.	146	18.9
TOTAL	TOTAL	.	6,472	10,353.5	66	308.6	84	62.7	.	.	18	30.0	317	32.7

----- TRIBE=LAC COURTE OREILLES -----

GEAR	DATATYPE	DATE	WALLEYE (#)	WALLEYE (LBS)	N PIKE (#)	N PIKE (LBS)	Y PERCH (#)	Y PERCH (LBS)	CISCO (#)	CISCO (LBS)	BURBOT (#)	BURBOT (LBS)	PERMITS	WALLEYE (LBS)/PERMIT
NET		04/14/2006	1,621	2,153.0	34	134.2	12	8.4	.	.	8	10.8	51	42.2
NET		04/15/2006	1,195	1,742.8	12	55.6	6	4.0	.	.	22	34.2	46	37.9
NET		04/16/2006	902	1,529.0	10	51.0	24	17.6	.	.	3	4.2	33	46.3
NET		04/17/2006	617	1,059.2	35	163.2	46	33.4	.	.	3	3.4	29	36.5
NET		04/18/2006	347	572.8	17	82.8	33	22.2	1	0.8	7	11.4	24	23.9
NET		04/19/2006	62	131.4	7	30.8	23	16.8	.	.	1	1.4	5	26.3
NET		04/20/2006	73	117.6	7	29.4	10	7.0	.	.	.	.	5	23.5
NET		04/21/2006	7	14.6	3	12.0	4	3.4	.	.	.	.	4	3.7
NET		04/22/2006	26	47.8	.	.	5	4.2	.	.	8	14.4	5	9.6
NET	TOTAL	.	4,850	7,368.2	125	559.0	163	117.0	1	0.8	52	79.8	202	36.5
SPEAR		04/15/2006	0	0.0	.	.	.	.	.	.	.	.	1	0.0
SPEAR		04/16/2006	50	74.6	.	.	.	.	.	.	.	.	5	14.9
SPEAR	TOTAL	.	50	74.6	.	.	.	.	.	.	.	.	6	12.4
TOTAL	TOTAL	.	4,900	7,442.8	125	559.0	163	117.0	1	0.8	52	79.8	208	35.8

Appendix F. Continued

----- TRIBE=LAC DU FLAMBEAU -----

GEAR	DATATYPE	DATE	WALLEYE (#)	WALLEYE (LBS)	N PIKE (#)	N PIKE (LBS)	Y PERCH (#)	Y PERCH (LBS)	CISCO (#)	CISCO (LBS)	BURBOT (#)	BURBOT (LBS)	PERMITS	WALLEYE (LBS)/PERMIT
NET		04/14/2006	3,532	5,195.4	46	222.0	74	52.0	1	1.0	4	6.6	109	47.7
NET		04/15/2006	1,697	2,790.6	67	331.6	78	55.4	.	.	9	17.2	62	45.0
NET		04/16/2006	229	346.8	7	28.6	19	14.0	.	.	5	7.8	10	34.7
NET		04/17/2006	199	324.0	9	46.8	2	1.4	.	.	1	1.8	10	32.4
NET		04/18/2006	422	676.4	21	96.2	5	3.6	1	1.0	3	4.0	12	56.4
NET		04/19/2006	219	369.2	10	42.4	4	2.8	1	1.4	.	.	10	36.9
NET		04/22/2006	34	56.2	7	29.4	18	12.0	.	.	1	2.0	8	7.0
NET	TOTAL	.	6,332	9,758.6	167	797.0	200	141.2	3	3.4	23	39.4	221	44.2
SPEAR		04/14/2006	468	1,223.2	.	.	.	.	.	.	.	.	94	13.0
SPEAR		04/19/2006	60	113.4	.	.	.	.	.	.	.	.	6	18.9
SPEAR	TOTAL	.	528	1,336.6	.	.	.	.	.	.	.	.	100	13.4
TOTAL	TOTAL	.	6,860	11,095.2	167	797.0	200	141.2	3	3.4	23	39.4	321	34.6

----- TRIBE=MILLE LACS -----

GEAR	DATATYPE	DATE	WALLEYE (#)	WALLEYE (LBS)	N PIKE (#)	N PIKE (LBS)	Y PERCH (#)	Y PERCH (LBS)	CISCO (#)	CISCO (LBS)	BURBOT (#)	BURBOT (LBS)	PERMITS	WALLEYE (LBS)/PERMIT
NET		04/03/2006	65	115.6	6	25.2	.	.	.	.	.	.	3	38.5
NET		04/04/2006	32	64.2	2	5.6	.	.	.	.	.	.	2	32.1
NET		04/05/2006	171	266.1	12	59.2	.	.	.	.	1	1.4	7	38.0
NET		04/06/2006	314	450.4	40	204.6	.	.	.	.	1	1.8	10	45.0
NET		04/07/2006	266	370.4	15	95.4	.	.	.	.	.	.	7	52.9
NET		04/08/2006	187	274.2	24	108.0	.	.	.	.	.	.	7	39.2
NET		04/09/2006	26	41.8	13	60.8	.	.	.	.	.	.	2	20.9
NET		04/10/2006	419	575.2	14	72.6	.	.	.	.	.	.	9	63.9

Appendix F. Continued

----- TRIBE=MILLE LACS -----
 (continued)

GEAR	DATATYPE	DATE	WALLEYE (#)	WALLEYE (LBS)	N PIKE (#)	N PIKE (LBS)	Y PERCH (#)	Y PERCH (LBS)	CISCO (#)	CISCO (LBS)	BURBOT (#)	BURBOT (LBS)	PERMITS	WALLEYE (LBS)/PERMIT
NET		04/11/2006	481	703.2	10	50.8	1	0.8	.	.	.	.	10	70.3
NET		04/12/2006	1,386	1,981.8	34	191.2	10	6.8	.	.	3	4.0	30	66.1
NET		04/13/2006	1,553	2,365.0	69	356.0	13	7.4	.	.	2	3.2	42	56.3
NET		04/14/2006	2,004	3,334.8	116	626.8	25	17.4	.	.	9	15.0	70	47.6
NET		04/15/2006	1,875	2,992.2	83	451.6	23	15.0	.	.	18	31.4	59	50.7
NET		04/16/2006	805	1,325.8	33	168.2	5	3.6	.	.	10	17.4	30	44.2
NET		04/17/2006	734	1,118.0	31	142.4	15	9.8	.	.	10	15.0	31	36.1
NET		04/18/2006	233	368.0	13	57.0	19	10.8	1	1.2	5	7.2	13	28.3
NET		04/19/2006	487	738.2	22	128.6	19	13.2	.	.	4	7.0	23	32.1
NET		04/20/2006	339	523.7	31	140.2	39	24.0	.	.	1	1.4	29	18.1
NET		04/21/2006	208	397.6	37	211.1	105	80.1	.	.	10	17.8	31	12.8
NET		04/22/2006	76	183.1	12	58.4	127	99.6	.	.	15	30.6	20	9.2
NET		04/23/2006	11	17.6	.	.	1	0.8	.	.	1	2.0	2	8.8
NET		04/24/2006	19	33.6	2	8.0	9	7.0	.	.	1	1.6	4	8.4
NET		04/25/2006	19	43.6	5	20.4	45	33.8	.	.	9	17.4	4	10.9
NET		04/26/2006	19	45.6	6	24.4	61	42.6	1	1.0	6	10.2	4	11.4
NET		04/27/2006	19	48.8	3	13.2	65	46.6	.	.	12	24.8	5	9.8
NET		04/28/2006	2	6.0	2	7.8	.	.	.	.	.	.	1	6.0
NET		10/06/2006	11	51.6	1	4.6	2	1.6	.	.	.	.	2	25.8
NET		10/07/2006	12	39.2	4	19.8	.	.	.	.	.	.	2	19.6
NET		10/08/2006	4	5.0	2	8.4	.	.	.	.	.	.	2	2.5
NET		10/12/2006	1	5.4	.	.	2	2.0	.	.	1	1.2	1	5.4
NET		10/13/2006	1	0.7	1	4.9	2	0.6	.	.	1	0.6	1	0.7
NET		10/14/2006	2	2.0	5	20.5	.	.	1	0.5	.	.	1	2.0
NET		10/21/2006	4	10.3	5	55.1	.	.	.	.	.	.	1	10.3
NET		10/26/2006	2	2.3	10	39.0	.	.	.	.	.	.	3	0.8

Appendix F. Continued

----- TRIBE=MILLE LACS -----

(continued)

GEAR	DATATYPE	DATE	WALLEYE (#)	WALLEYE (LBS)	N PIKE (#)	N PIKE (LBS)	Y PERCH (#)	Y PERCH (LBS)	CISCO (#)	CISCO (LBS)	BURBOT (#)	BURBOT (LBS)	PERMITS	WALLEYE (LBS)/PERMIT
NET		11/07/2006	2	5.2	2	25.8	1	0.8	45	44.0	.	.	1	5.2
NET		11/13/2006	2	3.8	2	13.4	1	0.8	10	9.2	.	.	1	3.8
NET		11/14/2006	1	0.4	2	13.6	.	.	34	32.8	.	.	3	0.1
NET		11/15/2006	5	31.4	3	26.0	.	.	39	36.4	.	.	4	7.9
NET		11/16/2006	2	5.6	6	46.6	1	0.8	25	22.8	1	1.0	4	1.4
NET		11/19/2006	0	0.0	2	32.0	2	1.6	4	5.2	.	.	2	0.0
NET		03/30/2007	3	4.6	6	24.4	.	.	.	.	.	.	1	4.6
NET	TOTAL	.	11,802	18,552.0	686	3,621.6	593	427.5	160	153.1	121	212.0	484	38.3
SPEAR		04/13/2006	16	15.3	.	.	.	.	.	.	.	.	2	7.7
SPEAR		04/14/2006	79	137.2	.	.	.	.	.	.	.	.	8	17.2
SPEAR		04/15/2006	120	215.3	.	.	.	.	.	.	.	.	10	21.5
SPEAR		04/17/2006	103	170.2	.	.	.	.	.	.	.	.	12	14.2
SPEAR		04/18/2006	39	55.2	.	.	.	.	.	.	.	.	4	13.8
SPEAR		04/19/2006	20	32.4	.	.	.	.	.	.	.	.	2	16.2
SPEAR		04/21/2006	15	23.4	.	.	.	.	.	.	.	.	2	11.7
SPEAR	TOTAL	.	392	649.0	.	.	.	.	.	.	.	.	40	16.2
TOTAL	TOTAL	.	12,194	19,201.0	686	3,621.6	593	427.5	160	153.1	121	212.0	524	36.6

----- TRIBE=MOLE LAKE -----

GEAR	DATATYPE	DATE	WALLEYE (#)	WALLEYE (LBS)	N PIKE (#)	N PIKE (LBS)	Y PERCH (#)	Y PERCH (LBS)	CISCO (#)	CISCO (LBS)	BURBOT (#)	BURBOT (LBS)	PERMITS	WALLEYE (LBS)/PERMIT
NET		04/14/2006	315	444.2	6	33.4	.	.	.	.	5	7.4	9	49.4
NET		04/15/2006	260	357.4	7	31.6	2	1.0	.	.	9	14.6	9	39.7

Appendix F. Continued

----- TRIBE=MOLE LAKE -----

(continued)

GEAR	DATATYPE	DATE	WALLEYE (#)	WALLEYE (LBS)	N PIKE (#)	N PIKE (LBS)	Y PERCH (#)	Y PERCH (LBS)	CISCO (#)	CISCO (LBS)	BURBOT (#)	BURBOT (LBS)	PERMITS	WALLEYE (LBS)/PERMIT
NET		04/16/2006	783	1,141.8	29	144.0	36	24.6	.	.	11	15.4	32	35.7
NET		04/17/2006	995	1,818.0	36	172.2	61	39.8	.	.	17	23.0	34	53.5
NET		04/18/2006	189	357.0	12	59.8	13	8.8	2	2.2	5	9.0	14	25.5
NET		04/19/2006	142	230.0	4	16.6	112	56.5	.	.	7	9.2	14	16.4
NET		04/20/2006	33	58.4	17	81.0	26	16.6	.	.	10	18.0	8	7.3
NET		04/21/2006	9	14.6	6	46.2	18	12.4	1	1.0	.	.	8	1.8
NET	TOTAL	.	2,726	4,421.4	117	584.8	268	159.7	3	3.2	64	96.6	128	34.5
SPEAR		04/14/2006	80	135.5	.	.	.	.	.	.	.	.	9	15.1
SPEAR	TOTAL	.	80	135.5	.	.	.	.	.	.	.	.	9	15.1
TOTAL	TOTAL	.	2,806	4,556.9	117	584.8	268	159.7	3	3.2	64	96.6	137	33.3

----- TRIBE=RED CLIFF -----

GEAR	DATATYPE	DATE	WALLEYE (#)	WALLEYE (LBS)	N PIKE (#)	N PIKE (LBS)	Y PERCH (#)	Y PERCH (LBS)	CISCO (#)	CISCO (LBS)	BURBOT (#)	BURBOT (LBS)	PERMITS	WALLEYE (LBS)/PERMIT
NET		04/14/2006	135	213.2	4	13.8	2	1.4	.	.	.	.	5	42.6
NET		04/15/2006	254	376.2	3	18.8	7	6.0	.	.	.	.	9	41.8
NET		04/19/2006	236	392.0	6	22.0	5	3.4	.	.	3	4.4	9	43.6
NET		04/20/2006	67	102.0	6	42.2	151	104.2	.	.	.	.	7	14.6
NET		04/21/2006	58	112.0	6	42.4	13	8.6	2	2.0	2	3.6	7	16.0
NET		04/22/2006	29	48.2	3	13.4	6	4.8	.	.	.	.	5	9.6
NET	TOTAL	.	779	1,243.6	28	152.6	184	128.4	2	2.0	5	8.0	42	29.6
SPEAR		04/14/2006	52	115.4	.	.	.	.	.	.	.	.	9	12.8
SPEAR	TOTAL	.	52	115.4	.	.	.	.	.	.	.	.	9	12.8

Appendix F. Continued

----- TRIBE=RED CLIFF -----

(continued)

GEAR	DATATYPE	DATE	WALLEYE (#)	WALLEYE (LBS)	N PIKE (#)	N PIKE (LBS)	Y PERCH (#)	Y PERCH (LBS)	CISCO (#)	CISCO (LBS)	BURBOT (#)	BURBOT (LBS)	PERMITS	WALLEYE (LBS)/PERMIT
TOTAL	TOTAL	.	831	1,359.0	28	152.6	184	128.4	2	2.0	5	8.0	51	26.6

----- TRIBE=ST CROIX -----

GEAR	DATATYPE	DATE	WALLEYE (#)	WALLEYE (LBS)	N PIKE (#)	N PIKE (LBS)	Y PERCH (#)	Y PERCH (LBS)	CISCO (#)	CISCO (LBS)	BURBOT (#)	BURBOT (LBS)	PERMITS	WALLEYE (LBS)/PERMIT
NET		04/13/2006	289	408.9	4	18.0	.	.	.	.	.	.	5	81.8
NET		04/14/2006	981	1,311.6	1	7.6	7	4.2	.	.	11	15.8	23	57.0
NET		04/15/2006	1,066	1,500.2	22	116.8	23	15.7	.	.	29	45.8	33	45.5
NET		04/16/2006	787	1,259.0	19	90.4	42	28.6	1	1.2	9	14.6	41	30.7
NET		04/17/2006	649	1,123.2	12	63.4	23	16.8	.	.	19	30.4	40	28.1
NET		04/18/2006	297	542.4	12	59.4	13	8.8	.	.	9	15.0	16	33.9
NET		04/19/2006	89	157.2	3	11.0	5	3.2	.	.	5	7.2	8	19.7
NET		04/20/2006	157	281.6	14	70.2	33	23.4	1	1.6	21	33.0	18	15.6
NET		04/21/2006	139	265.0	18	89.2	45	32.0	.	.	39	65.6	33	8.0
NET		04/22/2006	48	115.6	2	9.4	15	12.0	.	.	3	5.2	11	10.5
NET		10/30/2006	34	66.2	4	10.1	2	1.6	12	12.2	18	27.4	6	11.0
NET		10/31/2006	14	46.6	3	24.0	4	3.0	82	83.4	14	21.8	6	7.8
NET	TOTAL	.	4,550	7,077.5	114	569.5	212	149.3	96	98.4	177	281.8	240	29.5
SPEAR		04/21/2006	41	68.4	.	.	.	.	.	.	.	.	4	17.1
SPEAR		10/31/2006	7	33.0	.	.	.	.	.	.	.	.	2	16.5
SPEAR	TOTAL	.	48	101.4	.	.	.	.	.	.	.	.	6	16.9
TOTAL	TOTAL	.	4,598	7,178.9	114	569.5	212	149.3	96	98.4	177	281.8	246	29.2

Appendix F. Continued

----- TRIBE=TOTAL -----

GEAR	DATATYPE	DATE	WALLEYE (#)	WALLEYE (LBS)	N PIKE (#)	N PIKE (LBS)	Y PERCH (#)	Y PERCH (LBS)	CISCO (#)	CISCO (LBS)	BURBOT (#)	BURBOT (LBS)	PERMITS	WALLEYE (LBS)/PERMIT
NET		04/03/2006	65	115.6	6	25.2	.	.	.	.	.	.	3	38.5
NET		04/04/2006	32	64.2	2	5.6	.	.	.	.	.	.	2	32.1
NET		04/05/2006	171	266.1	12	59.2	.	.	.	.	1	1.4	7	38.0
NET		04/06/2006	314	450.4	40	204.6	.	.	.	.	1	1.8	10	45.0
NET		04/07/2006	266	370.4	15	95.4	.	.	.	.	.	.	7	52.9
NET		04/08/2006	187	274.2	24	108.0	.	.	.	.	.	.	7	39.2
NET		04/09/2006	26	41.8	13	60.8	.	.	.	.	.	.	2	20.9
NET		04/10/2006	419	575.2	14	72.6	.	.	.	.	.	.	9	63.9
NET		04/11/2006	481	703.2	10	50.8	1	0.8	.	.	.	.	10	70.3
NET		04/12/2006	1,386	1,981.8	34	191.2	10	6.8	.	.	3	4.0	30	66.1
NET		04/13/2006	5,102	7,592.9	158	841.6	39	26.6	.	.	10	13.6	126	60.3
NET		04/14/2006	13,325	19,674.8	274	1,326.8	188	131.9	1	1.0	53	82.0	420	46.8
NET		04/15/2006	8,145	12,640.2	245	1,260.6	176	124.5	.	.	102	167.2	293	43.1
NET		04/16/2006	4,048	6,502.8	117	566.8	179	131.7	2	2.4	43	68.5	171	38.0
NET		04/17/2006	3,485	5,936.4	135	640.6	161	111.7	.	.	52	76.8	161	36.9
NET		04/18/2006	1,563	2,650.2	87	433.2	87	56.8	5	5.2	29	46.6	85	31.2
NET		04/19/2006	1,235	2,018.0	52	251.4	168	95.9	1	1.4	20	29.2	69	29.2
NET		04/20/2006	669	1,083.3	75	363.0	259	175.2	1	1.6	32	52.4	67	16.2
NET		04/21/2006	472	892.4	76	424.9	195	144.1	4	4.0	52	88.6	91	9.8
NET		04/22/2006	229	477.9	25	114.2	171	132.6	.	.	27	52.2	55	8.7
NET		04/23/2006	50	124.0	5	29.8	47	33.6	.	.	23	48.0	9	13.8
NET		04/24/2006	57	107.2	3	12.8	114	77.6	.	.	16	28.6	11	9.7
NET		04/25/2006	19	43.6	5	20.4	45	33.8	.	.	9	17.4	4	10.9
NET		04/26/2006	19	45.6	6	24.4	61	42.6	1	1.0	6	10.2	4	11.4
NET		04/27/2006	19	48.8	3	13.2	65	46.6	.	.	12	24.8	5	9.8
NET		04/28/2006	2	6.0	2	7.8	.	.	.	.	.	.	1	6.0
NET		10/06/2006	11	51.6	1	4.6	2	1.6	.	.	.	.	2	25.8

Appendix F. Continued

----- TRIBE=TOTAL -----
 (continued)

GEAR	DATATYPE	DATE	WALLEYE (#)	WALLEYE (LBS)	N PIKE (#)	N PIKE (LBS)	Y PERCH (#)	Y PERCH (LBS)	CISCO (#)	CISCO (LBS)	BURBOT (#)	BURBOT (LBS)	PERMITS	WALLEYE (LBS)/PERMIT
NET		10/07/2006	12	39.2	4	19.8	.	.	.	.	.	.	2	19.6
NET		10/08/2006	4	5.0	2	8.4	.	.	.	.	.	.	2	2.5
NET		10/12/2006	1	5.4	.	.	2	2.0	.	.	1	1.2	1	5.4
NET		10/13/2006	1	0.7	1	4.9	2	0.6	.	.	1	0.6	1	0.7
NET		10/14/2006	2	2.0	5	20.5	.	.	1	0.5	.	.	1	2.0
NET		10/21/2006	4	10.3	5	55.1	.	.	.	.	.	.	1	10.3
NET		10/26/2006	2	2.3	10	39.0	.	.	.	.	.	.	3	0.8
NET		10/30/2006	34	66.2	4	10.1	2	1.6	12	12.2	18	27.4	6	11.0
NET		10/31/2006	14	46.6	3	24.0	4	3.0	82	83.4	14	21.8	6	7.8
NET		11/07/2006	2	5.2	2	25.8	1	0.8	45	44.0	.	.	1	5.2
NET		11/13/2006	2	3.8	2	13.4	1	0.8	10	9.2	.	.	1	3.8
NET		11/14/2006	1	0.4	2	13.6	.	.	34	32.8	.	.	3	0.1
NET		11/15/2006	5	31.4	3	26.0	.	.	39	36.4	.	.	4	7.9
NET		11/16/2006	2	5.6	6	46.6	1	0.8	25	22.8	1	1.0	4	1.4
NET		11/19/2006	0	0.0	2	32.0	2	1.6	4	5.2	.	.	2	0.0
NET		03/30/2007	3	4.6	6	24.4	.	.	.	.	.	.	1	4.6
NET	TOTAL	.	41,886	64,967.3	1,496	7,573.1	1,983	1,385.6	267	263.1	526	865.3	1700	38.2
SPEAR		04/13/2006	56	78.7	.	.	.	.	.	.	.	.	6	13.1
SPEAR		04/14/2006	1,715	3,647.6	.	.	2	1.2	.	.	.	.	228	16.0
SPEAR		04/15/2006	535	935.7	.	.	.	.	.	.	.	.	49	19.1
SPEAR		04/16/2006	140	235.8	.	.	.	.	.	.	.	.	14	16.8
SPEAR		04/17/2006	103	170.2	.	.	.	.	.	.	.	.	12	14.2
SPEAR		04/18/2006	39	55.2	.	.	.	.	.	.	.	.	4	13.8
SPEAR		04/19/2006	80	145.8	.	.	.	.	.	.	.	.	8	18.2
SPEAR		04/21/2006	56	91.8	.	.	.	.	.	.	.	.	6	15.3
SPEAR		04/22/2006	10	27.3	.	.	.	.	.	.	.	.	2	13.7

Appendix F. Continued

----- TRIBE=TOTAL -----
 (continued)

GEAR	DATATYPE	DATE	WALLEYE (#)	WALLEYE (LBS)	N PIKE (#)	N PIKE (LBS)	Y PERCH (#)	Y PERCH (LBS)	CISCO (#)	CISCO (LBS)	BURBOT (#)	BURBOT (LBS)	PERMITS	WALLEYE (LBS)/PERMIT
SPEAR		10/31/2006	7	33.0	.	.	.	.	.	.	.	.	2	16.5
SPEAR	TOTAL	.	2,741	5,421.1	.	.	2	1.2	.	.	.	.	331	16.4
TOTAL	TOTAL	.	44,627	70,388.4	1,496	7,573.1	1,985	1,386.8	267	263.1	526	865.3	2031	34.7

Appendix F. Continued

Mille Lacs Lake 2006 Totals by Season
(Pre-Spring is March Harvest)

PERIOD	GEAR	WALLEYE (#)	WALLEYE (LBS)	N PIKE (#)	N PIKE (LBS)	Y PERCH (#)	Y PERCH (LBS)	CISCO (#)	CISCO (LBS)	BURBOT (#)	BURBOT (LBS)	PERMITS	WALLEYE (LBS)/PERMIT
SPRING	NET	41,786	64,687.0	1,438	7,204.9	1,966	1,372.8	15	16.6	491	813.3	1659	39.0
SPRING	SPEAR	2,734	5,388.1	.	.	2	1.2	.	.	.	.	329	16.4
SPRING	TOTAL	44,520	70,075.1	1,438	7,204.9	1,968	1,374.0	15	16.6	491	813.3	1988	35.2
SUMMER/FALL	NET	97	275.7	52	343.8	17	12.8	252	246.5	35	52.0	40	6.9
SUMMER/FALL	SPEAR	7	33.0	.	.	.	.	.	.	.	.	2	16.5
SUMMER/FALL	TOTAL	104	308.7	52	343.8	17	12.8	252	246.5	35	52.0	42	7.4
PRE-SPRING	NET	3	4.6	6	24.4	.	.	.	.	.	.	1	4.6
PRE-SPRING	TOTAL	3	4.6	6	24.4	.	.	.	.	.	.	1	4.6

Appendix G. Number of walleye per inch group and sex taken by netting and spearing from Mille Lacs Lake during spring 2006 and after spring. Also, average weight and average length per gear and overall.

Time of Year	Gear & Mesh	Sex	Inch Group																														Total Measured	Total Harvest	Total Length (Inches)	Mean Length (Inches)	Aggregate Weight (Pounds)	Mean Weight (Pounds)							
			10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32																				
Spring	Gill-net 1.5	M			2	86	201	221	90	8	7	3	6	8	3	2																				637	637	9,703.2	15.2						
		F							1	1						2																			6	6	130.2	21.7							
		U																																	5	5	105.9	21.2							
		N/A							1	1																																			
		T			2	86	201	222	92	9	7	3	6	8	5	2	2	2	1																		648	1,151	9,939.3	15.3	1,453.4	1.3			
Spring	Gill-net 1.75	M	1	4	70	487	3,069	3,245	613	239	294	311	279	129	52	16	7	2	2	2	1																8,823	8,823	146,763.0	16.6					
		F			2	3	7	15	11	23	16	19	24	65	63	51	22	22	8	1																	353	353	7,845.0	22.2					
		U						1	22	59	39	13	7	5	12	9	11	10	10	6																	205	205	3,882.9	18.9					
		N/A						1	6	3		3	3																							16	31,254	271.9	17.0						
		T	1	4	72	492	3,104	3,322	663	278	320	335	315	203	126	77	39	30	10	3	2																9,397	40,635	158,762.8	16.9	63,233.6	1.6			
Spring	Spear	M	1	8	144	402	684	413	87	78	150	110	84	54	21	11	5																					2,252	2,252	37,184.9	16.5				
		F					2	2			1	6	10	22	36	40	51	49	30	15	6	1																271	271	6,515.2	24.0				
		U			4	6	5	4	1			1			1	1		1	2		1																27	27	474.4	17.6					
		N/A																																			1	184	21.0	21.0					
		T	1	8	148	410	691	417	88	79	157	120	107	91	62	62	55	32	15	7	1																	2,551	2,734	44,195.5	17.3	5,388.1	2.0		
After Spring	Gill-net 1.75	M						1	2																														3	3	50.2	16.7			
		U					3	15	21	8	8	6	1	1	5	6	5	9	4	2																			94	94	1,834.8	19.5			
		N/A							1																														3	3	65.0	21.7			
		T					3	15	23	10	8	6	1	1	6	6	5	9	4	3																			100	100	1,950.0	19.5	280.3	2.8	
After Spring	Spear	U							1																															7	7	165.3	23.6		
		T								1																													7	7	165.3	23.6	33.0	4.7	
Entire Year		M	2	14	300	1,090	3,974	3,749	710	324	447	427	371	186	75	27	12	2	2	2	1																								
		F			2	5	9	16	12	24	22	29	46	103	103	102	72	53	23	7	1																								
		U			4	10	43	85	49	21	14	6	13	15	22	17	21	13	3	1	1																								
		N/A				1	6	4		3	3		1	1																															
		T	2	14	306	1,106	4,032	3,854	771	372	486	462	431	305	200	146	105	68	29	10	3																								

U = unknown, M = male, F = female, N/A = fish that were measured but not sexed, T = total

Appendix I. Number of yellow perch per inch group and sex taken by netting and spearing from Mille Lacs Lake during spring 2006 and after spring. Also, average weight and average length per gear and overall.

Time of Year	Gear & Mesh	Sex	Inch Group										Total Measured	Total Harvest	Total Length (Inches)	Mean Length (Inches)	Aggregate Weight (Pounds)	Mean Weight (Pounds)	
			5	6	7	8	9	10	11	12	13	14							
Spring	Gill-net 1.5	M				7	13	3						23	23	234.5	10.2		
		F				3	5		2					10	10	104.9	10.5		
		U				5	5	4	1					15	15	157.6	10.5		
		T				15	23	7	3					48	48	497.0	10.4	29.0	0.6
Spring	Gill-net 1.75	M	2	6	16	31	180	385	31	3				654	655	7,185.9	11.0		
		F		1	3	78	546	303	93	15	1	1		1,040	1,044	11,299.1	10.9		
		U	2	2	11	17	58	27	3	1				121	121	1,244.2	10.3		
		N/A		2			9	2	1					14	98	145.0	10.4		
	T		11	30	126	793	717	128	19	1	1		1,829	1,918	19,874.2	10.9	1,343.8	0.7	
Spring	Spear	N/A													2				
		T													2				1.2	0.6
After spring	Gill-net 1.25	N/A				1	1							2	2	20.4	10.2		
		T				1	1							2	2	20.4	10.2	1.6	0.8
After spring	Gill-net 1.75	U					2	9	3					14	14	160.0	11.4		
		N/A						1						1	1	11.1	11.1		
		T					2	10	3					15	15	171.1	11.4	11.2	0.7
Entire Year		M	2	6	16	38	193	388	31	3				677	678	7,420.4	11.0		
		F		1	3	81	551	303	95	15	1	1		1,050	1,054	11,404.0	10.9		
		U	2	2	11	22	65	40	7	1				150	150	1,561.8	10.4		
		N/A		2		1	10	3	1					17	103	176.5	10.4		
	T		11	30	142	819	734	134	19	1	1		1,894	1,985	20,562.7	10.9	1,386.8	0.7	

U = unknown, M = male, F = female, N/A = fish that were measured but not sexed, T = total

Appendix J. Number of tullibee per inch group and sex taken by netting and spearing from Mille Lacs Lake during spring 2006 and after spring. Also, average weight and average length per gear and overall.

Time of Year	Gear & Mesh	Sex	Inch Group						Total Measured	Total Harvest	Total Length (Inches)	Mean Length (Inches)	Aggregate Weight (Pounds)	Mean Weight (Pounds)
			11	12	13	14	15	16						
Spring	Gill-net 1.75	M			2				2	2	27.2	13.6		
		U		1	2	4	3	2	12	12	176	14.7		
		N/A			1				1	1	13.6	13.6		
		T		1	5	4	3	2	15	15	216.8	14.5	16.6	1.1
After spring	Gill-net 1.25	N/A		2	2				4	4	51.5	12.9		
		T		2	2				4	4	51.5	12.9	5.2	1.3
After spring	Gill-net 1.75	U	3	33	95	35	2		168	168	2,248.8	13.4		
		N/A	1	16	43	20			80	80	1,075.4	13.4		
		T	4	49	138	55	2		248	248	3,324.2	13.4	241.3	1
Entire Year		M			2				2	2	27.2	13.6		
		U	3	34	97	39	5	2	180	180	2,424.8	13.5		
		N/A	1	18	46	20			85	85	1,140.5	13.4		
		T	4	52	145	59	5	2	267	267	3,592.5	13.5	263.1	1

U = unknown, M = male, F = female, N/A = fish that were measured but not sexed, T = total

Appendix K. Number of burbot per inch group and sex taken by netting and spearing from Mille Lacs Lake during spring 2006 and after spring. Also, average weight and average length per gear and overall.

Time of Year	Gear & Mesh	Sex	Inch Group												Total Measured	Total Harvest	Total Length (Inches)	Mean Length (Inches)	Aggregate Weight (Pounds)	Mean Weight (Pounds)
			13	14	15	16	17	18	19	20	21	22	23	24						
Spring	Gill-net 1.5	U				2									2	2	33.1	16.6		
		N/A						1							1	1	18.1	18.1		
		T				2		1							3	3	51.2	17.1	4.0	1.3
Spring	Gill-net 1.75	M		2	3	12	14	9	10	2					52	52	921.3	17.7		
		F					1								1	1	17.6	17.6		
		U	5	8	17	76	84	86	39	16	2	8	1	2	344	344	6,130.5	17.8		
		N/A	1	1	2	19	17	21	12						73	91	1,288.1	17.6		
		T	6	11	22	107	116	116	61	18	2	8	1	2	470	488	8,357.5	17.8	809.3	1.7
After Spring	Gill-net 1.75	U		2	7	11	11	1	2					34	34	565.7	16.6			
		N/A		1											1	1	14.2	14.2		
		T		3	7	11	11	1	2						35	35	579.9	16.6	52.0	1.5
Entire Year		M		2	3	12	14	9	10	2					52	52	921.3	17.7		
		F					1								1	1	17.6	17.6		
		U	5	10	24	89	95	87	41	16	2	8	1	2	380	380	6,729.3	17.7		
		N/A	1	2	2	19	17	22	12						75	93	1,320.4	17.6		
		T	6	14	29	120	127	118	63	18	2	8	1	2	508	526	8,988.6	17.7	865.3	1.6

U = unknown, M = male, F = female, N/A = fish that were measured but not sexed, T = total