



# **Open-Water Spearing and Netting in the 1837 Minnesota Ceded Territory During the 2009-2010 Quota Year**

by

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## **ABSTRACT**

The 2009-2010 quota-year was the twelfth year that open-water spear and net fishing was conducted by eight Ojibwa Bands in the 1837 Minnesota ceded territory. A total of 562 Band members participated in the fishery. Mille Lacs Lake and the Rum River were the only water bodies that received spearing or netting effort. A total of 64,775 fish weighing 119,571 pounds were harvested from Mille Lacs Lake whereas no fish were harvested from the Rum River. Walleye represented 85% of the total catch (55,336 fish; 101,368 pounds). Other species harvested included 2,258 northern pike (10,788 pounds), 4,398 yellow perch (3,353 pounds), and 995 tullibee (1,287 pounds). Most of the harvest occurred during spring 2009, which included 55,177 walleye weighing 100,968 pounds and 2,137 northern pike weighing 10,017 pounds. Also during spring 2009, more walleye were taken by gill-netting (52,816 fish; 96,169 pounds) than by spearing (2,361 fish; 4,799 pounds). Overall, average length was 17.5 inches for walleye and 26.4 inches for northern pike; average weight was 1.8 and 4.8 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, 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 spearers and gill-netters in 1837 Minnesota ceded territory waters (Figure 2) during the 2009-2010 quota year which ran from April 1, 2009 through March 31, 2010. Mille Lacs Lake and the Rum River were the only water bodies with effort. All of the harvest was from Mille Lacs Lake where 98% of the fish were taken during a 36 day period in spring 2009 (April 3-May 7) (Appendices A and B). Additional effort and harvest occurred on 15 days during fall and 7 days during March 2010.

Eight Chippewa bands actively participated in the 2009-2010 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 102,766 pounds of fish including 88,189 pounds of walleye were taken (Michaels and Krueger 2012).

## REGULATIONS

Harvest was strictly regulated and completely monitored under provisions of the “1837 Treaty Conservation Code for the Minnesota Ceded Territory” as adopted on 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 2008-2012.” This harvest management plan established tribal walleye quotas for Mille Lacs Lake for a five year period, beginning with the 2008-2009 quota year. The tribal walleye quota started at 122,500 pounds for the 2008-2009 quota year under this plan, and would remain the same in subsequent fishing years unless any Band harvested 90% or more of its walleye quota in any year; consequently, a Band’s quota, as well as the total Band quota, would increase by 2,000 pounds in the following year until the total Band quota reached 142,500 pounds or 50% of the Agreed Harvest Target Level<sup>1</sup>, whichever was less.

In addition to the Treaty Conservation Code and Treaty Fisheries Management Plan, a set of protocols were approved by the Minnesota 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.

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<sup>1</sup> The “Agreed Target Harvest Level” for a species is the total (treaty and non-treaty) target harvest determined by the Bands’ and State’s technical representatives on the basis of the methodology agreed to by the Bands and the State, provided the State actively manages non-treaty fisheries to stay within that level minus the treaty harvests provided.

## **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. Quotas for walleye and northern pike were updated and the number of issuable permits (Figure 3) was determined. The number of issuable spearing permits was determined by dividing the remaining tribal walleye quota for spearing in a lake by the nightly bag limit selected for that lake. The number of issuable netting 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 April 1 to April 22. The catch rate value was increased to 60 pounds of walleye per net on April 23, reduced to 40 pounds on April 28, reduced to 30 pounds on April 30, increased to 35 on May 1, and finally reduced to 20 pounds on May 2 where it remained for the rest of the quota year. Tribal members could 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 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.

Spear monitoring teams typically arrived at the designated boat landing before dusk and stayed until spearing ended. For spearing, a monitoring team completed a catch report form (Appendix C) upon the return of a boating party. At each landing, length and sex information were collected from the first 100 walleye plus all walleye in the last boat. Also, the number and aggregate weight by species were recorded plus length and sex information for species other than walleye. Besides harvest information, the time spearing started and ended, permit numbers, and the name and tribal identification number of each spearer were recorded (Appendix C). When available, tribal members could be issued one or more additional spearing permits.

Gill net 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 issued permit. Nets could be checked, fish removed, and reset at night prior to the designated lift time only if monitoring personnel were notified and present at the landing. When length and sex information were being collected from a sub-sample of netted walleye a catch report form was completed. However, after the sub-sample requirement was met, harvest information was recorded on the back of the permit. This information included number and aggregate weight by species plus length and sex information for species other than walleye. For walleye, a sample of spines or otoliths were collected for aging.

The system as modified to manage harvest during the 2008-2009 quota year, was again used for the 2009-2010 quota year. An on-line Google.docs spreadsheet was used to enter, proof and track harvest and effort data. The number and pounds of walleye and northern pike as well as other data were entered for each permit. As data for each permit were entered, the Google.docs application updated the number and pounds of walleye and northern pike harvested per tribe as well as the balance for each tribe's walleye quota and northern pike cap. This "real time" on-line system was shared with select tribal representatives and GLIFWC staff. During spring 2009, harvest data for walleye and northern pike by Band were transmitted daily to Minnesota Department of Natural Resources (MnDNR) representatives as close to noon as possible. For nets not recovered by around noon each day, the number of nets unrecovered or outstanding was multiplied by the assigned catch rate for that day 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.

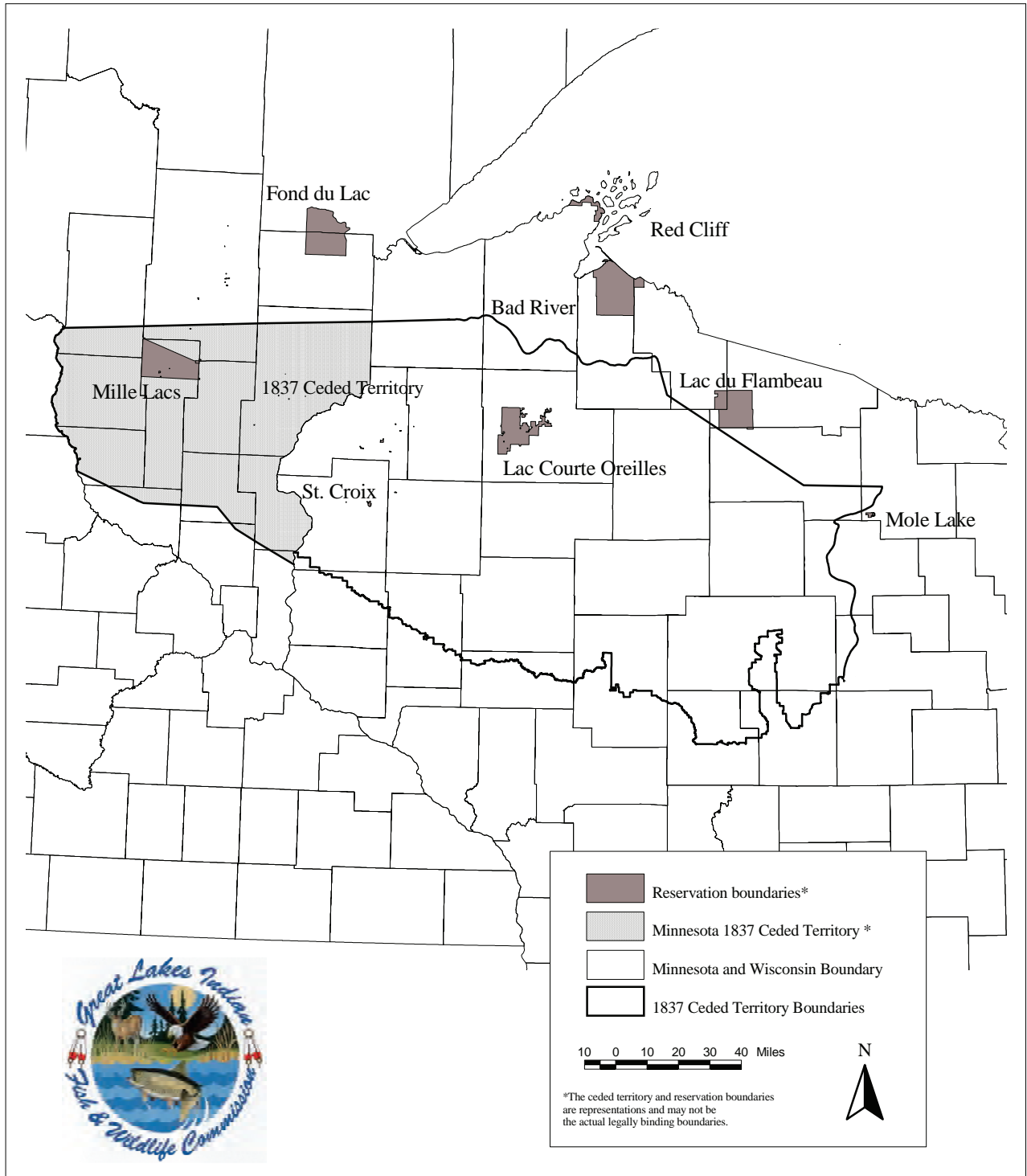
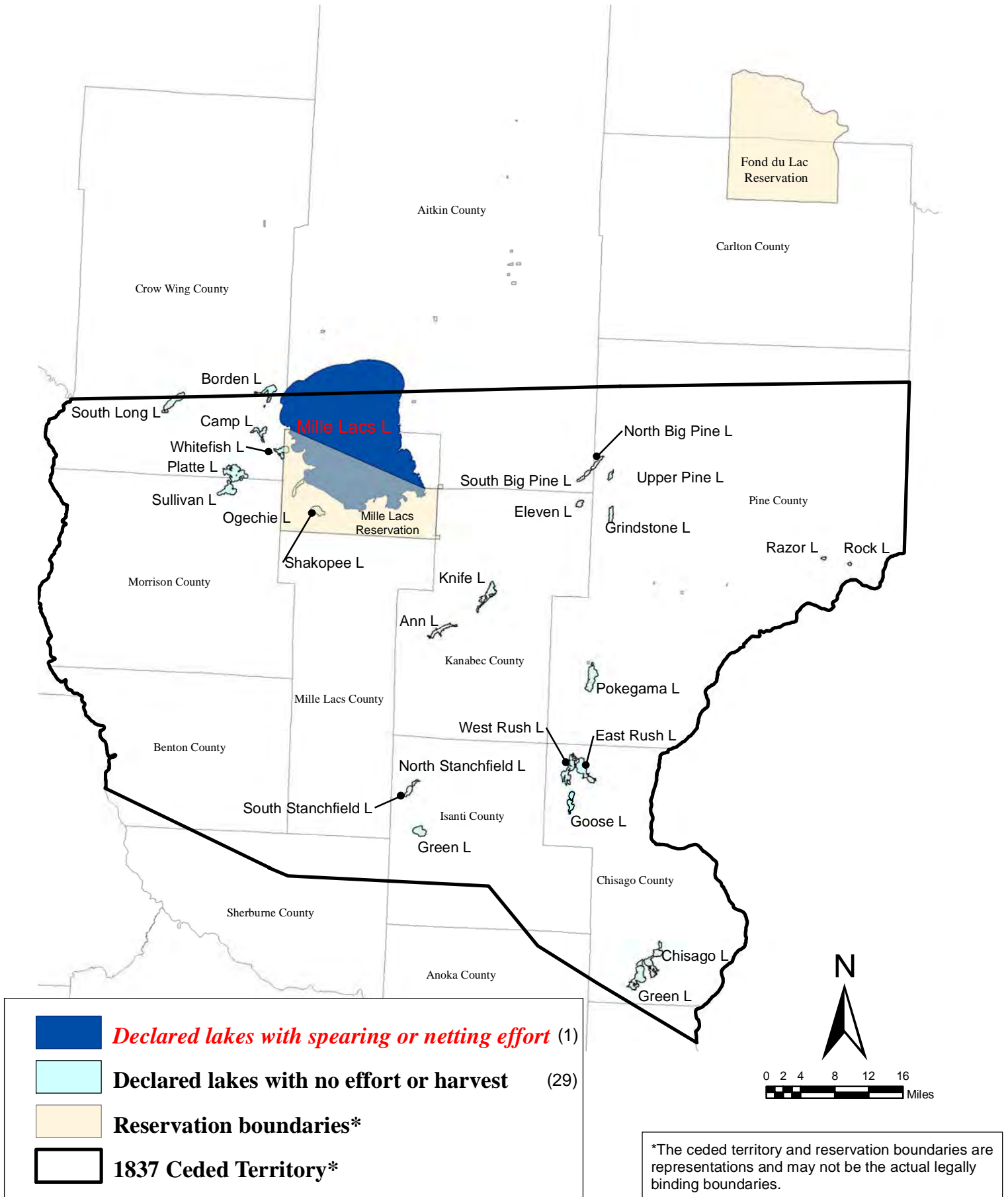


Figure 2. Lakes declared for possible harvest in the 1837 Minnesota ceded territory during the 2009-2010 quota year



28	29	30	31	Month _____	1	2	3	4	5	
27	<b>Off-Reservation Treaty Fishing Permit</b>								6	
26	<input type="checkbox"/>	Spearing	<input type="checkbox"/>	Fyke Netting						7
	<input type="checkbox"/>	Seining	<input type="checkbox"/>	Gill Netting						
25	Tribal ID Number _____ of _____ Reservation									8
24	Signature of Permittee: _____									9
	Issued by: _____ of _____ Reservation									
23	Water: _____ County: _____									10
22	Bag Limit Walleye _____ Muskellunge _____									11
	Other Restrictions: _____									
21	20	19	18	17	16	15	14	13	12	

Front

Start Time: _____ (am or pm)			Net Length: _____		
End Time: _____ (am or pm)			Mesh: _____		
Species	Count	Weight (lbs)	Species	Length (in.)	Sex
<u>Walleye</u>	_____	_____ . _____	_____	_____ . _____	_____
<u>Northern Pike</u>	_____	_____ . _____	_____	_____ . _____	_____
<u>Yellow Perch</u>	_____	_____ . _____	_____	_____ . _____	_____
_____	_____	_____ . _____	_____	_____ . _____	_____
_____	_____	_____ . _____	_____	_____ . _____	_____
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_____	_____	_____ . _____	_____	_____ . _____	_____

Back

Figure 3. Treaty fishing permit used during the 2009-2010 tribal quota year.

## RESULTS AND DISCUSSION

### FISHING EFFORT

#### NUMBER OF PARTICIPANTS

A total of 562 tribal members speared, netted, or speared and netted on Mille Lacs Lake during the 2009 spring fishery in Minnesota (Table 1; Appendix D). Of these, 33% were Mille Lacs members, 23% were Fond du Lac members, and 43% were from the six Wisconsin bands combined. Compared to 2008, the total number of participants increased by 82 persons or 17%. Three bands had members who netted in the fall: Mille Lacs (14 members), Fond du Lac (1 member), and St. Croix (3 members). One band netted in early spring 2010: Mille Lacs (9 members). Three Mille Lacs members speared on the Rum River during spring 2009.

Table 1. Number of tribal members from eight Chippewa bands who speared, netted, or speared and netted in Mille Lacs Lake during the 2009 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	3	16	0	1	1	0	1	2	24
Netting Only	173	69	50	34	58	14	24	41	463
Spearing and Netting	12	46	4	0	10	2	0	1	75
2009 Spring Total	188	131	54	35	69	16	25	44	562
2008 Spring Total	136	106	49	40	71	16	20	42	480
2007 Spring Total	152	155	53	35	90	25	33	52	595
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 2,837 permits were used on Mille Lacs Lake during spring 2009, a 3% increase from the 2008 spring season (Table 2, Appendix B). More netting permits (2,560) were used than spearing permits (277). Of the total permits, 24% were used by Mille Lacs members, 16% by Fond du Lac members, and 60% by the six Wisconsin bands combined. After the 2009 spring season, three bands had members who netted during fall: Mille Lacs issued 67 permits, Fond du Lac issued one permit, and St. Croix issued 19 permits. During early spring 2010, the Mille Lacs Band issued 23 netting and six spearing permits. For the Rum River, the Mille Lacs Band issued three spearing permits during spring 2009.

Table 2. Number of permits used by eight Chippewa bands on Mille Lacs Lake during spring 2009.

Gear	Mille Lacs	Fond du Lac*	Bad River	Lac Courte Oreilles	Lac du Flambeau	Mole Lake	Red Cliff	St. Croix	Total
Netting	652	269	300	346	330	191	150	322	2,560
Spears	26	181	10	1	45	10	1	3	277
2009 total	678	450	310	347	375	201	151	325	2,837
Percent of 2009 Total:	24%	16%	11%	12%	13%	7%	5%	11%	
2008 Total	586	423	268	401	531	147	133	259	2,748
2007 Total	592	674	255	252	489	270	160	410	3,102
2006 Total	495	317	227	208	321	137	51	232	1,988
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	1,081
2000 Total	441	193	94	67	93	42	28	111	1,069
1999 Total	328	188	54	44	45	47	33	52	791
1998 Total	198	155	43	30	36	0	15	33	510

\* The Fond du Lac tribe authorized its members to set more than one net under a single permit which accounts for the permit count being 270 less than the net-lift count.

## NUMBER OF DAYS FISHED

Spearing or netting effort occurred on 53 dates during the 2009-2010 quota year (Appendix A). During a 36 day period in spring 2009 (April 3 to May 7), spearing occurred in Mille Lacs Lake on 15 dates, netting occurred in Mille Lacs Lake on 31 days and spearing occurred in the Rum River on one date. During the remainder of the quota year, netting occurred in Mille Lacs Lake on 15 dates during fall (October 10 to November 24) and on seven (7) dates during early spring 2010 (March 9 to March 31), while spearing occurred in Mille Lacs Lake on one day during early spring 2010.

## NUMBER OF BOAT-HOURS

A total of 272.3 boat-hours of spearing effort occurred in Mille Lacs Lake during the 2009-2010 quota year (Table 3). Three tribes accounted for most of this effort: Fond du Lac (49% of the total), Lac du Flambeau (24%), and Mille Lacs (18%). Boat-hour effort on the Rum River was not recorded.

Table 3. Number of spearing boat-hours by eight Chippewa bands during the 2009-2010 quota year.

Year	Mille Lacs	Fond du Lac	Bad River	Lac Courte Oreilles	Lac du Flambeau	Mole Lake	Red Cliff	St. Croix	Total
2009	49.1	133.2	12.4	0.5	64.7	10.0	1.6	0.75	272.3
Percent of 2009 total	18.0%	48.9%	4.6%	0.2%	23.8%	3.7%	0.6%	0.3%	100%
2008	71.7	209.5	0.0	0.0	109.1	3.6	2.6	0.0	396.5
2007	110.5	406.6	46.5	5.1	86.6	25.3	12.4	16.0	709.1
2006	52.0	83.2	10.4	7.8	104.0	11.7	11.7	6.5	287.3
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 2,958 net-lifts occurred in Mille Lacs Lake during the 2009-2010 quota year, of which 2,830 occurred in spring 2009 (Table 4, Appendix E). Most net-lifts during spring 2009 (98%) were with 1.75 inch mesh gill nets. A total of 116 net-lifts occurred in Mille Lacs Lake by Mille Lacs, Fond du Lac, and St. Croix band members after spring 2009 (Table 4, Appendix B).

Table 4. Number of net-lifts by eight Chippewa bands during the 2009-2010 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 2009	1.25	0	0	0	0	9	21	0	0	30
Spring 2009	1.5	15	0	2	0	0	0	5	0	22
Spring 2009	1.75	637	539	298	346	321	170	145	322	2,778
Spring sub-total:		652	539	300	346	330	191	150	322	2,830
Fall 2009	1.75	67	7	0	0	0	0	0	19	93
Early Spring 2010	1.75	23	0	0	0	0	0	0	0	23
After Spring sub-total:		90	7	0	0	0	0	0	19	116
2009 Total:		742	546	306	352	330	191	150	341	2,958
2008 Total:		618	509	268	401	413	141	129	259	2,738
2007 Total:		1,128	804	464	490	686	348	280	789	4,989
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

\*\* The Fond du Lac tribe authorized its members to set more than one net under a single permit which accounts for the permit count being 270 less than the net-lift count during the spring and six less than the net-lift count during the fall.

## HARVEST

A total of 64,775 fish (119,571 pounds) representing 13 taxa were harvested from Mille Lacs Lake (Table 5). The majority of harvested fish were walleye, which comprised 55,336 fish and 101,368 pounds or 85% of the total harvest and total weight. Northern pike, yellow perch, sucker, and tullibee were the four other species whose harvest exceeded 1,000 pounds. For four of the five species with more than 1,000 pounds harvested, a greater percent of the total weight was taken during spring 2009 than after. For tullibee, a greater percent was taken after spring 2009 (i.e. the fall). No fish were harvested from the Rum River.

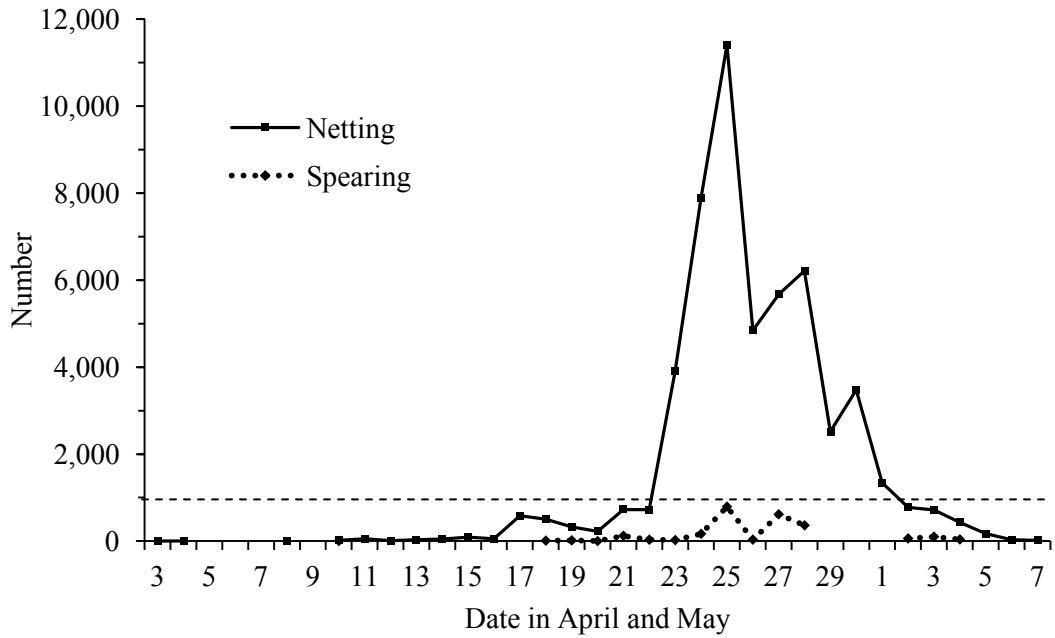
During spring 2009 walleye harvest exceeded 1,000 fish or 1,000 pounds or both, for 13 consecutive days from April 21 to May 3 (Figure 4, Appendix E). The majority of walleye harvested during spring 2009 were taken with gill-nets (96,169 pounds) compared to spears (4,799 pounds) (Appendix B).

Table 5. Number and pounds of fish harvested in Mille Lacs Lake during and after spring 2009.

Species	Spring 2009		After Spring 2009		Total		Percent total weight taken during spring
	Number	Pounds	Number	Pounds	Number	Pounds	
Walleye	55,177	100,967.9	159	400.3	55,336	101,368.2	99.6%
Northern Pike	2,137	10,017	121	771	2,258	10,788.0	92.9%
Yellow Perch	4,390	3,347.2	8	5.4	4,398	3,352.6	99.8%
Burbot	331	607.7	1	1.4	332	609.1	99.8%
Sucker	975	1,538.3	15	21	990	1,559.3	98.7%
Tullibee	55	83.4	940	1,203.2	995	1,286.6	6.5%
Muskellunge	11	148.6	0	0.0	11	148.6	100.0%
Smallmouth Bass	88	130.2	3	2	91	132.2	98.5%
Largemouth Bass	4	9.6	0	0.0	4	9.6	100.0%
Bass Sp.	57	52.7	0	0.0	57	52.7	100.0%
Rock Bass	260	168.2	2	2.6	262	170.8	98.5%
Bullhead	8	9.4	0	0.0	8	9.4	100.0%
Crappie Sp.	21	18	1	0.4	22	18.4	97.8%
Bowfin	11	65.7	0	0.0	11	65.7	100.0%
Total	63,525	117,163.9	1,250	2,407	64,775	119,571.2	98.0%



a)



b)

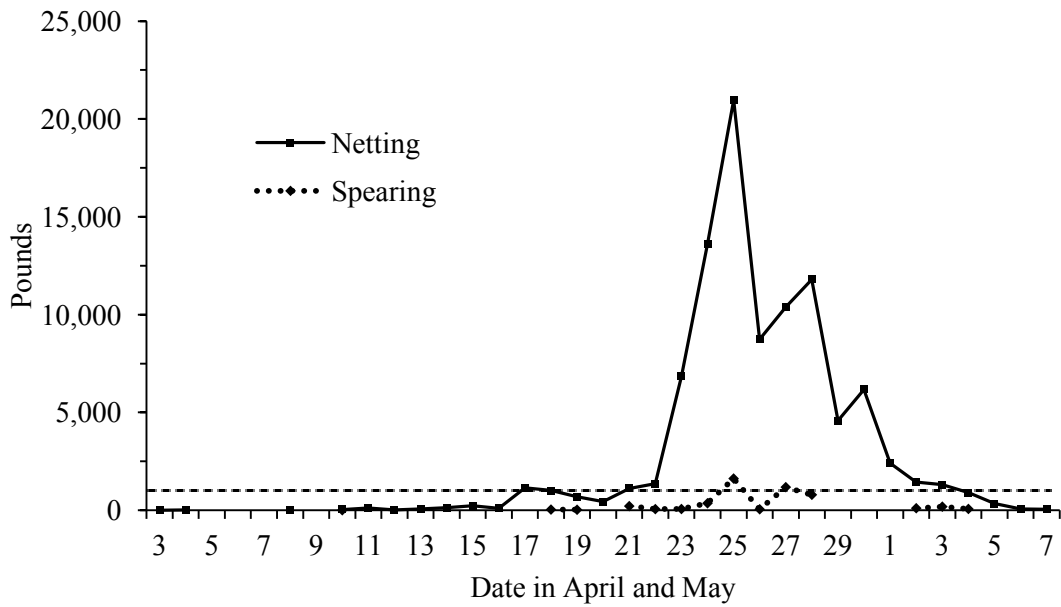


Figure 4. Number (a) and pounds (b) of walleye harvested daily in Mille Lacs Lake by spearing and netting during spring 2009.

Harvest in Mille Lacs Lake was regulated by a quota for two species, walleye and yellow perch, and a cap for northern pike (Appendix F). During the 2009-2010 quota year, 80% of the 126,500 pound quota for walleye, 86% of the 12,496 pound cap for northern pike, and 3% of the 97,428 pound quota for yellow perch were harvested. Quotas that existed for two other species, burbot and tullibee, were removed at the January 2008 meeting of the Minnesota Ceded Territory Fisheries Committee.

### **CATCH PER EFFORT (CPE)**

A total of 272.3 boat-hours of spearing were recorded during spring 2009 in which a total of 2,361 walleye weighing 4,799 pounds were speared (Appendix B). Overall spring catch per effort (total harvest / total boat hours) of walleye was 8.7 fish and 17.6 pounds per boat-hour.

A total of 2,946 net lifts was recorded during the 2009 – 2010 quota year in which 52,960 walleye weighing 96,521 pounds were caught (Table 4; Appendix G). Overall catch per effort was 17.9 fish and 32.6 pounds per net lift. During spring 2009, a total of 2,830 net-lifts were recorded in which 52,816 walleye weighing 96,169 pounds were taken (Appendix E): CPE was 18.6 fish and 34.0 pounds per net-lift (Figures 5 and 6). The majority of net lifts (2,778) during spring 2009 were of 1 ¾ (bar) mesh: CPE for this catch was 18.6 walleye and 33.9 pounds per net-lift.

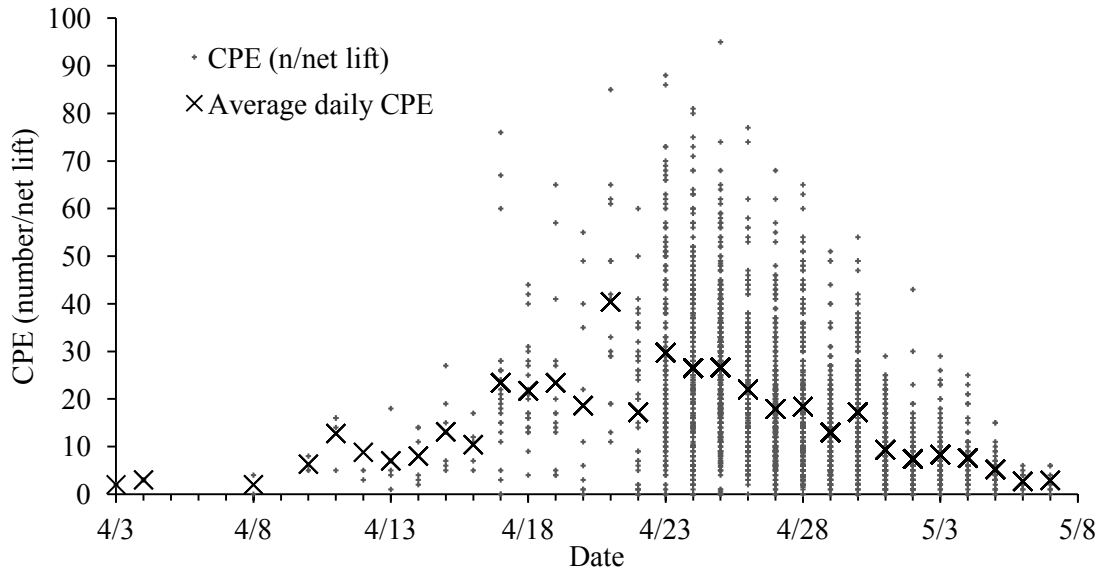


Figure 5. Gill-net CPE (number per net-lift) for walleye harvested from Mille Lacs Lake during spring 2009. Average number per net-lift = 18.6 fish.

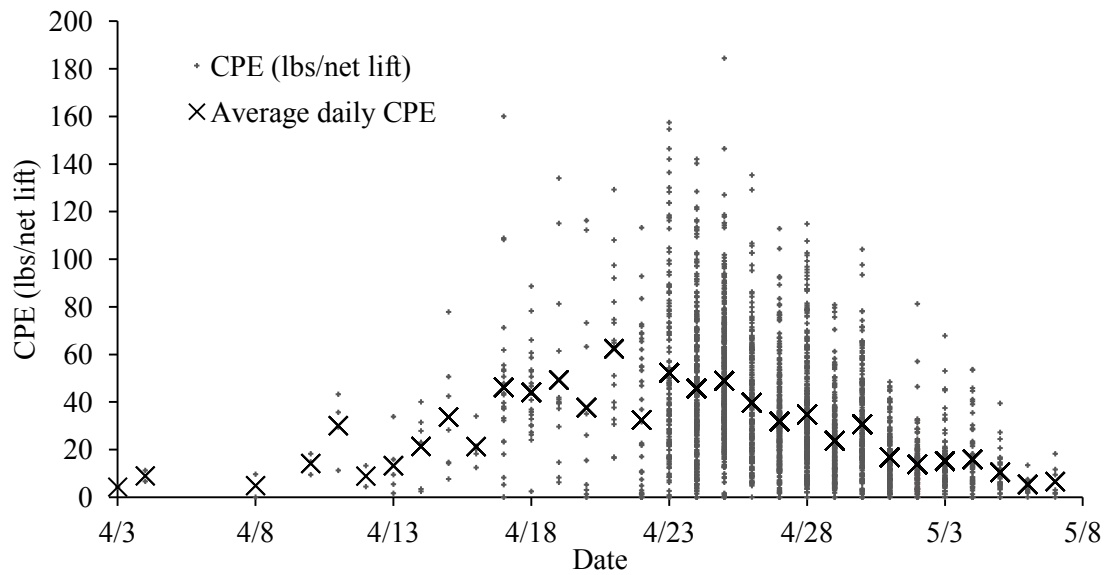


Figure 6. Gill-net CPE (pounds per net-lift) for walleye harvested from Mille Lacs Lake during spring 2009. Average weight per net lift = 34.0 pounds.

## WALLEYE AVERAGE LENGTH AND WEIGHT

Length (inches) was measured for a total of 10,832 walleye, 19.6% of the total walleye harvest, and aggregate weight was recorded for all 55,336 walleye harvested (Appendices B and G, Table 5, Figure 7). Average length of measured walleye was 17.5 inches and average weight for all walleye was 1.8 pounds. During spring 2009, both for all walleye netted and for walleye netted with 1 ¼ inch (bar) mesh, mean length of measured fish was 17.4 inches and average weight was 1.8 pounds. For speared walleye during spring 2009, mean length of measured fish was 17.8 inches and 2.0 pounds.

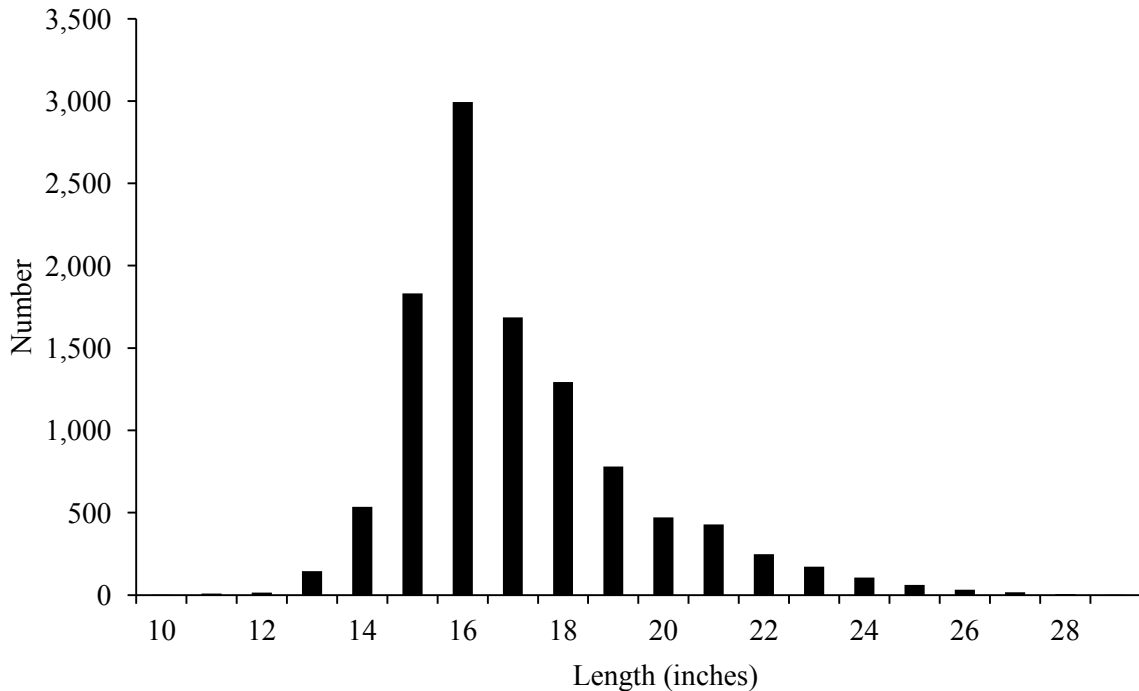


Figure 7. Length frequency of measured walleye in Mille Lacs Lake during the 2009-2010 quota year (N= 10,832; average length = 17.5 in).

## SEX COMPOSITON OF THE WALLEYE CATCH

A total of 10,832 walleye were measured and sexed during the 2009-2010 quota year (Appendix G). The majority or 84% were male, with 11% female, and 5% unknown sex. During spring 2009, percentages for walleye netted with 1 ¾ mesh (bar) were also 84% male, 11% female, and 5% unknown sex; the male:female sex ratio was 7.5:1. Percentages for speared walleye were 86% male, 13% female, and 1% unknown sex; the male:female sex ratio was 6.6:1.

Overall average length was 17.1 inches for male and 20.4 inches for female walleye (Figure 8, Appendix G). Respective average lengths for male and female walleye during spring 2009 were: 17.0 and 20.0 inches for 1¾ inch (bar) mesh net and 17.2 and 21.7 inches for spearing (Figure 9).

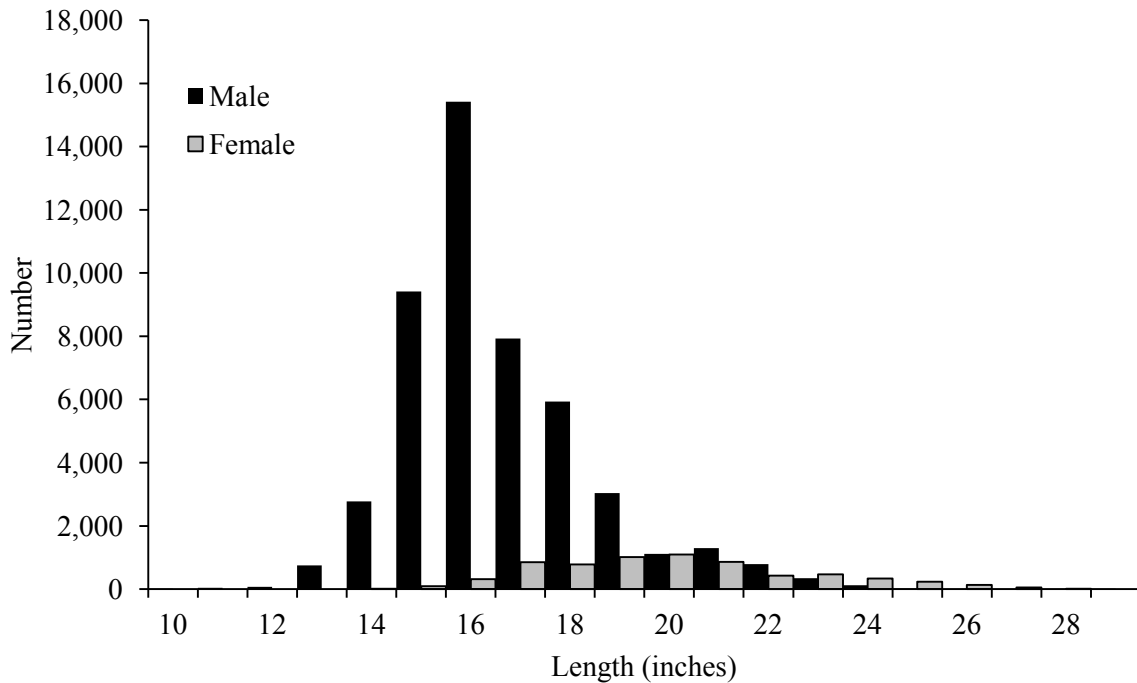


Figure 8. Estimated number of male and female walleye per inch group during spring 2009.

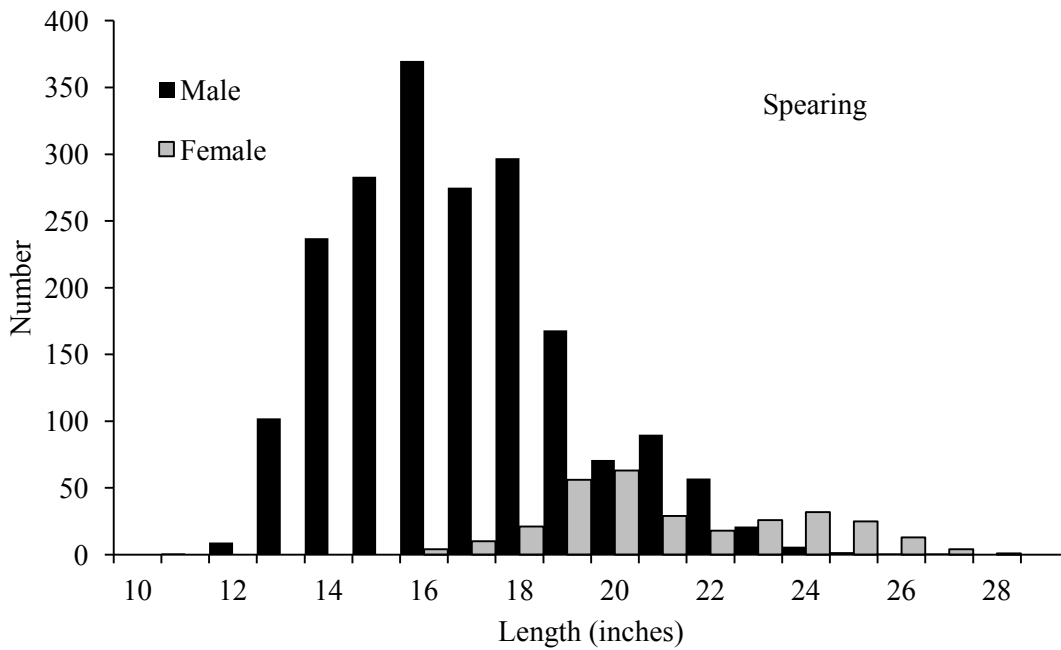
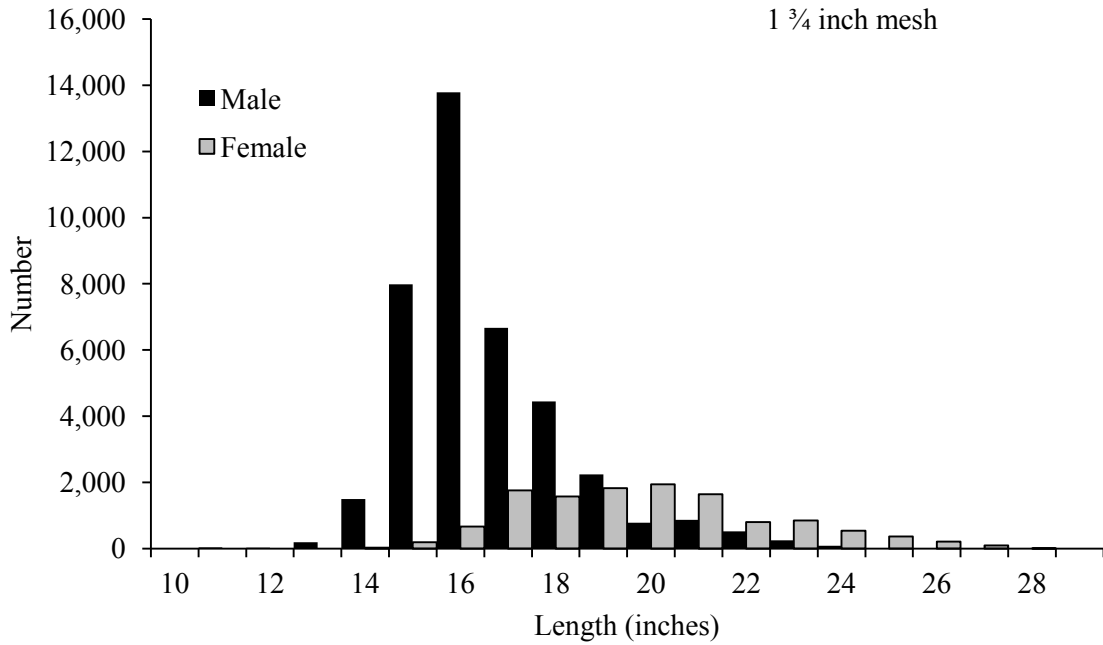


Figure 9. Estimated number of male and female walleye harvested with 1 ¾ inch (bar mesh) gill nets and by spearing from Mille Lacs Lake during spring 2009.

## NORTHERN PIKE HARVEST

A total of 2,258 northern pike weighing 10,788.0 pounds were harvested from Mille Lacs Lake during the 2009-2010 quota year (Appendix H). Overall average weight was 4.8 pounds. Most northern pike were harvested with 1 ¾ inch gill nets (2,078 fish, 9,741 pounds) and most were harvested during spring 2009 (2,137 fish, 10,017 pounds). Average weight for both of these samples was 4.7 pounds. A total of 1,953 northern pike were measured; average length was 26.4 inches (Figure 10). A total of 1,595 northern pike were sexed: 47% were male, 28% female and 24% were of unknown sex. Average length was 25.1 inches for males and 27.8 inches for females. Eighty-six (86) percent of the northern pike quota was harvested (Appendix F).

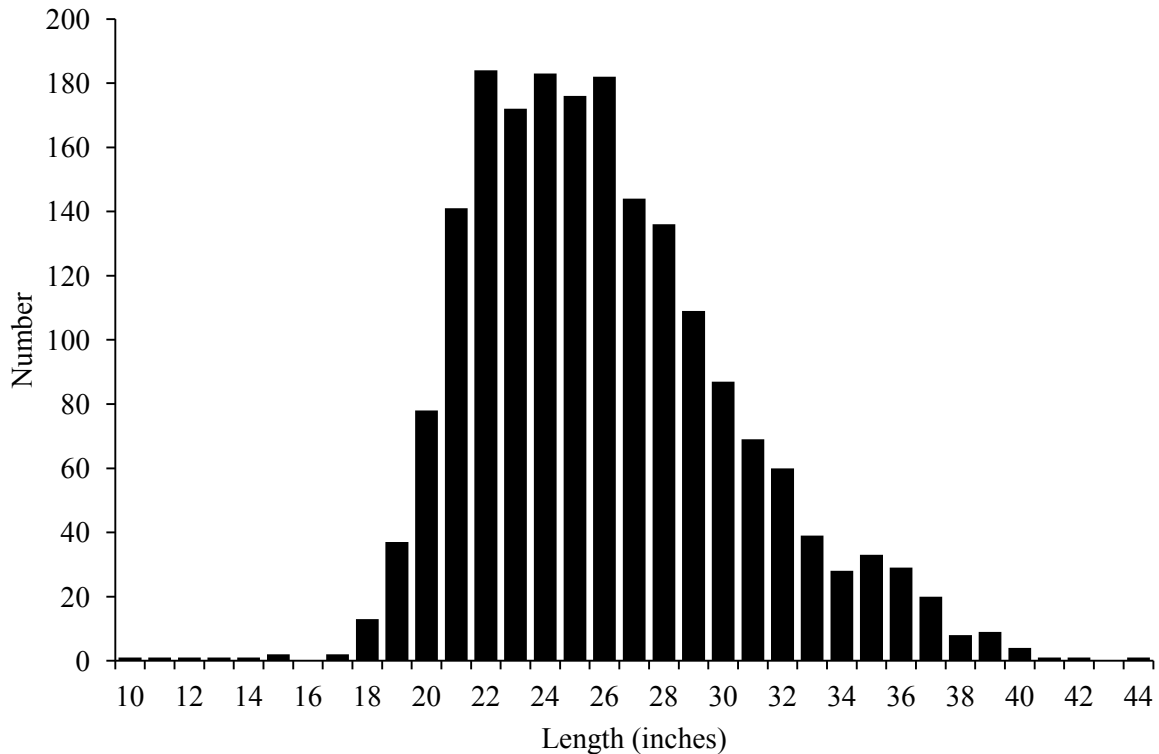


Figure 10. Length frequency of measured northern pike in Mille Lacs Lake during the 2009-2010 quota year (N = 1,953, Average length = 26.4 in).

## YELLOW PERCH HARVEST

A total of 4,398 yellow perch weighing 3,353 pounds were harvested from Mille Lacs Lake during the 2009-2010 quota year (Appendix I); overall mean weight was 0.8 pounds. For the 314 yellow perch measured, average length was 10.8 inches (Figure 11). The majority of yellow perch (4,329 fish or 98% of total) were harvested during spring 2009 in 1 ¾ inch mesh gill nets. A total of 304 yellow perch were sexed: 55% were male, 42% female and 3% unknown sex. Average length was 10.4 inches for males and 11.2 inches for females. Of the total yellow perch quota, 3.4% was harvested (Appendix F).

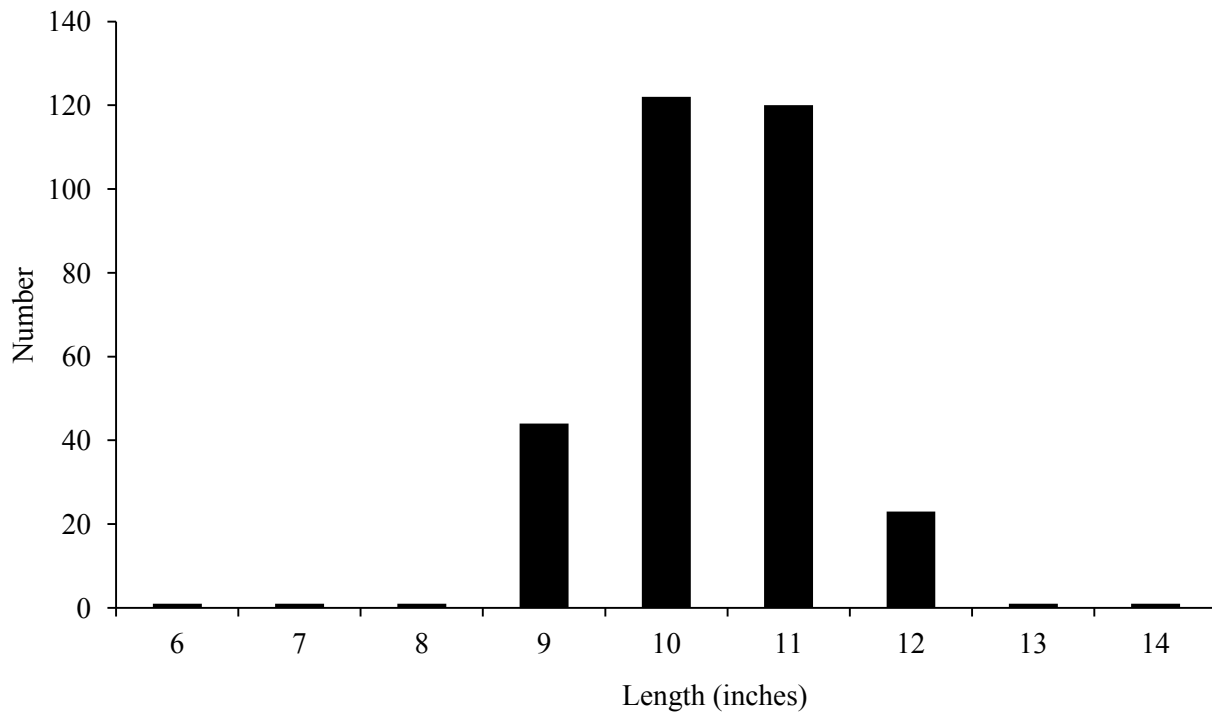


Figure 11. Length frequency of measured yellow perch harvested from Mille Lacs Lake during the 2008-2009 quota year (N = 314, Average length = 10.8 in).



## TULLIBEE HARVEST

A total of 995 tullibee (cisco or lake herring) weighing 1,287 pounds was harvested from Mille Lacs Lake; average weight was 1.3 pounds (Appendix J). The majority (94%) of tullibee was taken in fall 2009 in 1 3/4 inch mesh gill nets. A total of 284 tullibee were measured with an average length of 12.5 inches (Figure 12).

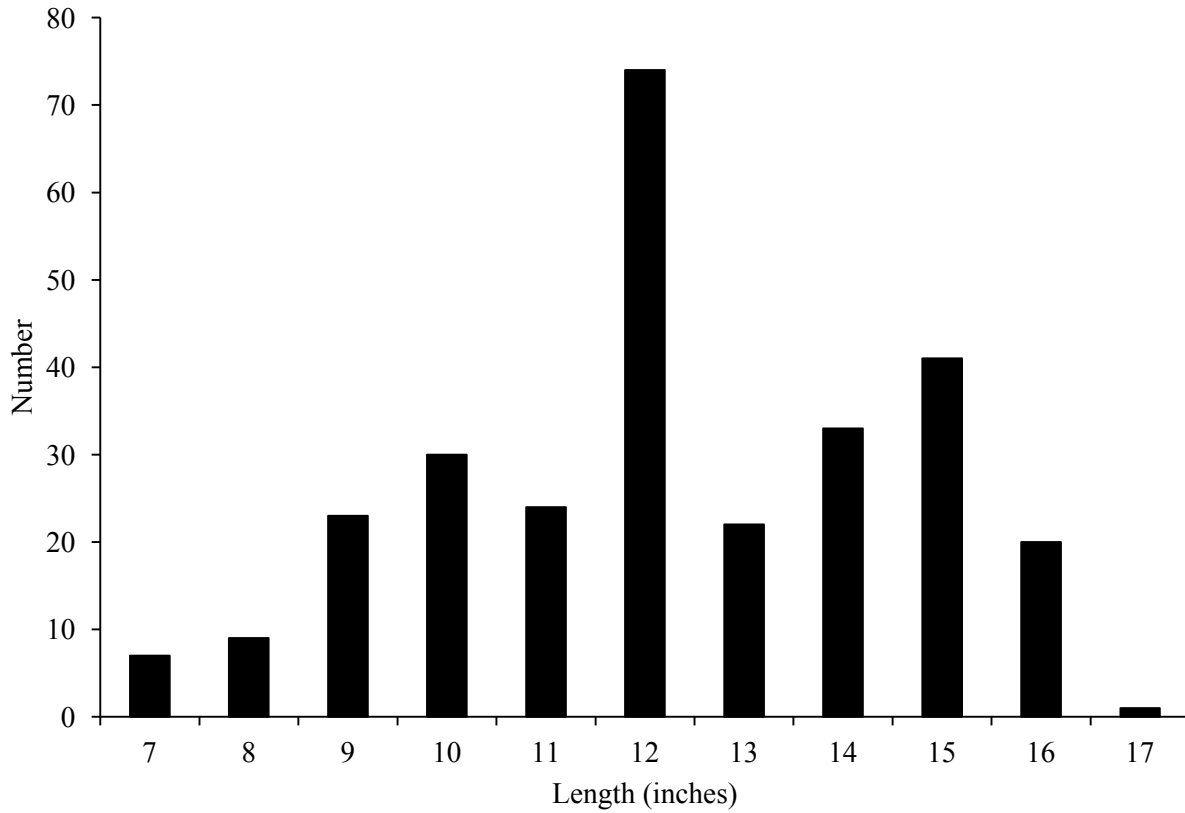


Figure 12. Length frequency of measured tullibee harvested from Mille lacs Lake during the 2009-2010 quota year (N = 284; Average length = 12.5 in).

## BURBOT HARVEST

A total of 332 burbot weighing 609 pounds were harvested from Mille Lacs Lake; average weight was 1.8 pounds (Appendix K). The majority of burbot (99.1%) were harvested during spring 2009 in 1 ¾ inch mesh gill nets. Fifty-two (52) burbot were measured with an average length of 17.6 inches (Figure 13).

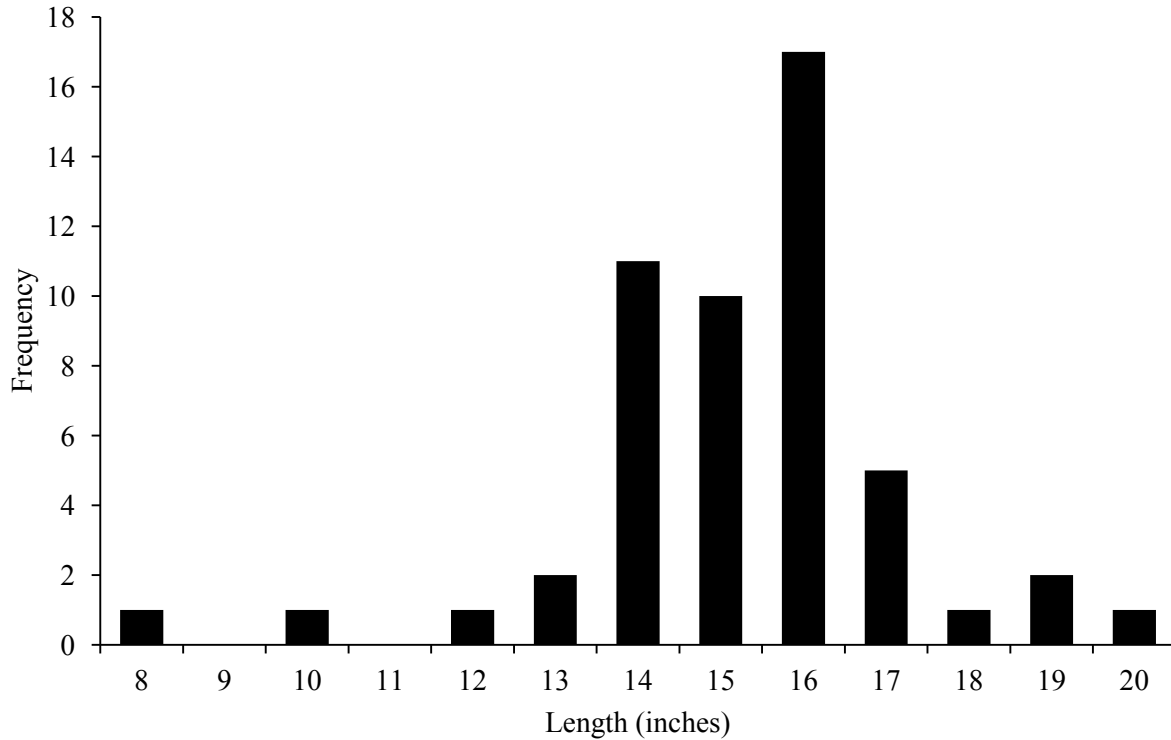


Figure 13. Length frequency of measured burbot harvested from Mille Lacs lake during the 2009-2010 quota year (N = 52; Average length = 17.6 in).

## **ACKNOWLEDGEMENTS**

The author extends a “Miigwech” to everyone that assisted with monitoring the fishery. I would like to thank Leanne Thannum, Kim Campy, and Jenny Krueger 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, I thank tribal fisheries biologists, tribal wardens, fisheries technicians, and creel clerks who helped to compile harvest data each day. I also appreciate the tribal members who fished and patiently allowed the monitoring of the catch. I thank Neil Kmiecik for editing this report.

## **LITERATURE CITED**

Michaels, S. and J. Krueger, 2012. Open-Water Spearing and Netting in the 1837 Minnesota Ceded Territory During the 2008-2009 Quota Year. Administrative Report 2012-6. Great Lakes Indian Fish and Wildlife Commission, Odanah, Wisconsin, USA

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Appendix B. Number and pounds of walleye and northern pike harvested by eight Chippewa Bands (combined and separately) from Mille Lacs Lake during the 2009-2010 quota year. Data are sorted by season (spring and after spring), by harvest method (spearing or netting) and by date.

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

VALUE	WALLEYE	NORTHERN PIKE
INITIAL QUOTA	12,000.0	803.0
REVISED QUOTA	12,000.0	1,193.0
HARVEST	9,989.2	1,167.7
BALANCE	2,010.8	25.3

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

VALUE	WALLEYE	NORTHERN PIKE
INITIAL QUOTA	22,000.0	803.0
REVISED QUOTA	22,000.0	824.0
HARVEST	20,906.0	823.7
BALANCE	1,094.0	1.0

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

VALUE	WALLEYE	NORTHERN PIKE
INITIAL QUOTA	14,000.0	803.0
REVISED QUOTA	14,000.0	1,003.0
HARVEST	9,969.2	877.2
BALANCE	4,030.8	125.8

Appendix B. Number and pounds of walleye and northern pike harvested by eight Chippewa Bands (combined and separately) from Mille Lacs Lake during the 2009-2010 quota year. Data are sorted by season (spring and after spring), by harvest method (spearing or netting) and by date.

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

VALUE	WALLEYE	NORTHERN PIKE
INITIAL QUOTA	17,500.0	803.0
REVISED QUOTA	17,500.0	1,098.0
HARVEST	16,331.4	1,097.7
BALANCE	1,168.6	0.3

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

VALUE	WALLEYE	NORTHERN PIKE
INITIAL QUOTA	25,000.0	6,875.0
REVISED QUOTA	25,000.0	6,315.0
HARVEST	24,183.0	4,972.0
BALANCE	817.0	1,343.0

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

VALUE	WALLEYE	NORTHERN PIKE
INITIAL QUOTA	12,000.0	803.0
REVISED QUOTA	12,000.0	703.0
HARVEST	6,246.1	658.8
BALANCE	5,753.9	44.2

Appendix B. Number and pounds of walleye and northern pike harvested by eight Chippewa Bands (combined and separately) from Mille Lacs Lake during the 2009-2010 quota year. Data are sorted by season (spring and after spring), by harvest method (spearing or netting) and by date.

-----  
 TRIBE=REDCLIFF  
 -----

VALUE	WALLEYE	NORTHERN PIKE
INITIAL QUOTA	12,000.0	803.0
REVISED QUOTA	12,000.0	577.0
HARVEST	6,385.4	442.4
BALANCE	5,614.6	134.6

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

VALUE	WALLEYE	NORTHERN PIKE
INITIAL QUOTA	12,000.0	803.0
REVISED QUOTA	12,000.0	783.0
HARVEST	7,357.9	748.5
BALANCE	4,642.1	34.5

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

VALUE	WALLEYE	NORTHERN PIKE
INITIAL QUOTA	126,500.0	12,496.0
REVISED QUOTA	126,500.0	12,496.0
HARVEST	101,368.2	10,788
BALANCE	25,131.8	1,708



Appendix B. Number and pounds of walleye and northern pike harvested by eight Chippewa Bands (combined and separately) from Mille Lacs Lake during the 2009-2010 quota year. Data are sorted by season (spring and after spring), by harvest method (spearing or netting) and by date.

TRIBE=BAD RIVER

GEAR	DATATYPE	DATE	WALLEYE NUMBER	WALLEYE POUNDS	NPIKE NUMBER	NPIKE POUNDS	PERMITS	WALLEYE POUNDS/NET
NET		4/23/2009	559	959.6	5	20.1	9	106.6
NET		4/24/2009	689	1,098.8	7	37.8	26	42.3
NET		4/25/2009	764	1,384.2	27	105.6	32	43.3
NET		4/26/2009	741	1,287.4	49	244.8	39	33.0
NET		4/27/2009	814	1,391.4	27	89.4	33	42.2
NET		4/28/2009	655	1,228.2	39	178.8	34	36.1
NET		4/29/2009	213	418.4	2	11.8	12	34.9
NET		4/30/2009	659	1,157.2	16	59.6	41	28.2
NET		5/1/2009	102	190.6	20	90.0	14	13.6
NET		5/2/2009	111	209.0	1	7.0	18	11.6
NET		5/3/2009	127	201.8	41	215.9	16	12.6
NET		5/4/2009	130	252.6	14	62.8	14	18.0
NET		5/5/2009	18	38.4	1	2.5	4	9.6
NET		5/6/2009	12	24.2	4	20.4	5	4.8
NET		5/7/2009	9	23.0	3	21.2	3	7.7
NET	TOTAL	.	5,603	9,864.8	256	1,167.7	300	32.2
SPEAR		4/23/2009	0	0.0	.	.	2	.
SPEAR		5/2/2009	60	107.8	.	.	6	.
SPEAR		5/3/2009	7	16.6	.	.	2	.
SPEAR	TOTAL	.	67	124.4	.	.	10	.
TOTAL	TOTAL	.	5,670	9,989.2	256	1,167.7	310	.

Appendix B. Number and pounds of walleye and northern pike harvested by eight Chippewa Bands (combined and separately) from Mille Lacs Lake during the 2009-2010 quota year. Data are sorted by season (spring and after spring), by harvest method (spearing or netting) and by date.

TRIBE=FOND DU LAC

---

GEAR	DATATYPE	DATE	WALLEYE NUMBER	WALLEYE POUNDS	NPIKE NUMBER	NPIKE POUNDS	PERMITS	WALLEYE POUNDS/NET
NET		4/24/2009	2,226	3,918.3	17	66.2	52	49.0
NET		4/25/2009	2,965	5,449.8	40	162.8	82	35.9
NET		4/26/2009	979	1,748.0	13	60.0	28	33.0
NET		4/27/2009	1,557	3,165.7	33	177.9	53	25.1
NET		4/28/2009	1,650	3,221.7	52	283.1	51	27.5
NET		4/29/2009	57	109.5	11	52.5	3	11.0
NET		10/30/2009	11	26.8	4	21.2	1	3.8
NET	TOTAL	.	9,445	17,639.8	170	823.7	270	32.4
SPEAR		4/24/2009	163	353.6	.	.	28	.
SPEAR		4/25/2009	550	1,122.8	.	.	64	.
SPEAR		4/26/2009	31	44.6	.	.	2	.
SPEAR		4/27/2009	497	950.8	.	.	44	.
SPEAR		4/28/2009	361	794.4	.	.	43	.
SPEAR	TOTAL	.	1,602	3,266.2	.	.	181	.
TOTAL	TOTAL	.	11,047	20,906.0	170	823.7	451	.

Appendix B. Number and pounds of walleye and northern pike harvested by eight Chippewa Bands (combined and separately) from Mille Lacs Lake during the 2009-2010 quota year. Data are sorted by season (spring and after spring), by harvest method (spearing or netting) and by date.

TRIBE=LAC COURTE OREILLES

GEAR	DATATYPE	DATE	WALLEYE NUMBER	WALLEYE POUNDS	NPIKE NUMBER	NPIKE POUNDS	PERMITS	WALLEYE POUNDS/NET
NET		4/24/2009	440	718.2	10	37.6	14	51.3
NET		4/25/2009	707	1,190.0	13	65.8	17	70.0
NET		4/26/2009	134	234.6	14	55.9	11	21.3
NET		4/27/2009	923	1,531.8	43	213.9	51	30.0
NET		4/28/2009	1244	2,347.0	46	244.2	67	35.0
NET		4/29/2009	596	1,125.0	14	62.2	38	29.6
NET		4/30/2009	854	1,493.1	5	14.6	44	33.9
NET		5/1/2009	197	354.1	8	44.8	32	11.1
NET		5/2/2009	239	427.2	9	41.8	31	13.8
NET		5/3/2009	172	319.0	6	49.0	23	13.9
NET		5/4/2009	67	124.2	7	37.8	10	12.4
NET		5/5/2009	37	82.6	1	3.2	4	20.7
NET		5/7/2009	11	22.4	2	6.4	4	5.6
NET	TOTAL	.	5,621	9,969.2	178	877.2	346	28.3
SPEAR		4/27/2009	0	0.0	.	.	1	.
SPEAR	TOTAL	.	0	0.0	.	.	1	.
TOTAL	TOTAL	.	5,621	9,969.2	178	877.2	347	.

Appendix B. Number and pounds of walleye and northern pike harvested by eight Chippewa Bands (combined and separately) from Mille Lacs Lake during the 2009-2010 quota year. Data are sorted by season (spring and after spring), by harvest method (spearing or netting) and by date.

TRIBE=LAC DU FLAMBEAU

GEAR	DATATYPE	DATE	WALLEYE NUMBER	WALLEYE POUNDS	NPIKE NUMBER	NPIKE POUNDS	PERMITS	WALLEYE POUNDS/NET
NET		4/24/2009	2,496	4,312.2	36	146.0	78	55.3
NET		4/25/2009	2,970	5,785.2	93	414.3	101	57.3
NET		4/26/2009	1,881	3,541.4	49	247.6	71	49.9
NET		4/27/2009	566	1,070.9	36	188.4	40	26.8
NET		4/28/2009	77	169.8	7	41.2	6	28.3
NET		4/29/2009	90	172.0	1	5.4	9	19.1
NET		4/30/2009	88	147.2	1	7.8	4	36.8
NET		5/1/2009	43	84.0	.	.	4	21.0
NET		5/2/2009	6	12.4	.	.	1	12.4
NET		5/3/2009	42	96.4	4	10.8	8	12.1
NET		5/4/2009	13	35.2	5	36.2	8	4.4
NET	TOTAL	.	8,272	15,426.7	232	1,097.7	330	46.7
SPEAR		4/24/2009	3	7.8	.	.	2	.
SPEAR		4/25/2009	199	420.4	.	.	21	.
SPEAR		4/26/2009	2	8.6	.	.	1	.
SPEAR		4/27/2009	117	226.9	.	.	8	.
SPEAR		5/3/2009	94	170.6	.	.	8	.
SPEAR		5/4/2009	37	70.4	.	.	5	.
SPEAR	TOTAL	.	452	904.7	0	0.0	45	.
TOTAL	TOTAL	.	8,724	16,331.4	232	1,097.7	375	.

Appendix B. Number and pounds of walleye and northern pike harvested by eight Chippewa Bands (combined and separately) from Mille Lacs Lake during the 2009-2010 quota year. Data are sorted by season (spring and after spring), by harvest method (spearing or netting) and by date.

TRIBE=MILLE LACS

GEAR	DATATYPE	DATE	WALLEYE NUMBER	WALLEYE POUNDS	NPIKE NUMBER	NPIKE POUNDS	PERMITS	WALLEYE POUNDS/NET
NET		4/3/2009	2	4.2	4	31.8	1	4.2
NET		4/4/2009	6	17.8	10	53.0	2	8.9
NET		4/8/2009	4	9.6	12	37.4	2	4.8
NET		4/10/2009	19	42.4	19	108.6	3	14.1
NET		4/11/2009	51	119.4	6	25.2	4	29.9
NET		4/12/2009	8	17.6	8	31.6	2	8.8
NET		4/13/2009	35	66.0	22	121.2	5	13.2
NET		4/14/2009	48	128.0	29	155.0	6	21.3
NET		4/15/2009	92	235.4	27	127.6	7	33.6
NET		4/16/2009	52	106.0	30	155.0	5	21.2
NET		4/17/2009	584	1,152.4	67	344.2	25	46.1
NET		4/18/2009	500	1,011.2	44	217.2	23	44.0
NET		4/19/2009	327	689.0	31	150.2	14	49.2
NET		4/20/2009	223	450.6	13	45.2	12	37.6
NET		4/21/2009	378	602.2	10	50.4	10	60.2
NET		4/22/2009	572	1,098.3	47	199.3	33	33.3
NET		4/23/2009	1,695	3,090.6	76	321.6	74	41.8
NET		4/24/2009	1,308	2,296.4	61	249.8	66	34.8
NET		4/25/2009	2,093	3,824.7	128	566.2	79	48.4
NET		4/26/2009	571	1,025.2	24	82.0	22	46.6
NET		4/27/2009	1,287	2,323.2	63	307.2	55	42.2
NET		4/28/2009	1,378	2,570.3	49	244.4	72	35.7
NET		4/29/2009	635	1,136.4	36	162.2	44	25.8
NET		4/30/2009	551	992.8	41	201.3	43	23.1
NET		5/1/2009	293	544.4	20	128.6	29	18.8
NET		5/2/2009	52	118.2	17	133.8	12	9.9
NET		5/3/2009	9	18.8	1	2.2	2	9.4
NET		10/10/2009	1	1.2	6	20.8	2	0.6

Appendix B. Number and pounds of walleye and northern pike harvested by eight Chippewa Bands (combined and separately) from Mille Lacs Lake during the 2009-2010 quota year. Data are sorted by season (spring and after spring), by harvest method (spearing or netting) and by date.

TRIBE=MILLE LACS  
(continued)

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GEAR	DATATYPE	DATE	WALLEYE NUMBER	WALLEYE POUNDS	NPIKE NUMBER	NPIKE POUNDS	PERMITS	WALLEYE POUNDS/NET
NET		10/11/2009	5	7.0	6	31.8	8	0.9
NET		10/12/2009	11	21.0	5	25.8	7	3.0
NET		10/23/2009	16	34.9	4	29.8	8	4.4
NET		10/30/2009	1	7.8	.	.	2	
NET		10/31/2009	2	11.6	7	37.0	4	2.9
NET		11/10/2009	3	11.8	2	19.0	4	3.0
NET		11/13/2009	.	.	2	17.4	4	0.0
NET		11/16/2009	5	17.6	14	121.6	9	2.0
NET		11/17/2009	.	.	2	19.2	7	0.0
NET		11/19/2009	.	.	2	15.0	2	0.0
NET		11/20/2009	.	.	.	.	2	0.0
NET		11/21/2009	2	3.0	2	20.0	6	0.5
NET		11/24/2009	1	1.6	7	63.6	2	0.8
NET		3/9/2010	.	.	1	12.0	1	0.0
NET		3/10/2010	.	.	.	.	2	0.0
NET		3/14/2010	1	7.0	1	5.0	4	1.8
NET		3/21/2010	6	14.8	6	33.0	3	4.9
NET		3/28/2010	10	29.0	11	44.2	5	5.8
NET		3/29/2010	1	4.6	15	105.0	4	1.2
NET		3/31/2010	17	38.6	17	99.6	4	9.7
NET	TOTAL	.	12,855	23,902.6	1,005	4,972.0	742	32.2
SPEAR		4/10/2009	1	4.4	.	.	1	.
SPEAR		4/17/2009	.	.	.	.	1	.
SPEAR		4/18/2009	9	38.0	.	.	5	.
SPEAR		4/22/2009	27	54.0	.	.	5	.
SPEAR		4/23/2009	22	66.8	.	.	7	.

Appendix B. Number and pounds of walleye and northern pike harvested by eight Chippewa Bands (combined and separately) from Mille Lacs Lake during the 2009-2010 quota year. Data are sorted by season (spring and after spring), by harvest method (spearing or netting) and by date.

TRIBE=MILLE LACS								
(continued)								
GEAR	DATATYPE	DATE	WALLEYE NUMBER	WALLEYE POUNDS	NPIKE NUMBER	NPIKE POUNDS	PERMITS	WALLEYE POUNDS/NET
SPEAR		4/24/2009	.	.	.	.	.	.
SPEAR		4/25/2009	33	68.4	.	.	6	.
SPEAR		4/27/2009	.	.	.	.	1	.
SPEAR		3/31/2010	15	48.8	.	.	6	.
SPEAR	TOTAL	.	107	280.4	.	.	32	.
TOTAL	TOTAL	.	12,962	24,183.0	1,005	4,972.0	774	.

Appendix B. Number and pounds of walleye and northern pike harvested by eight Chippewa Bands (combined and separately) from Mille Lacs Lake during the 2009-2010 quota year. Data are sorted by season (spring and after spring), by harvest method (spearing or netting) and by date.

TRIBE=MOLE LAKE

GEAR	DATATYPE	DATE	WALLEYE NUMBER	WALLEYE POUNDS	NPIKE NUMBER	NPIKE POUNDS	PERMITS	WALLEYE POUNDS/NET
NET		4/21/2009	349	519.6	22	73.6	8	65.0
NET		4/23/2009	879	1,531.0	19	69.0	25	61.2
NET		4/24/2009	105	174.2	11	37.6	19	9.2
NET		4/25/2009	701	1,167.4	28	108.5	23	50.8
NET		4/26/2009	327	535.6	11	64.4	19	28.2
NET		4/27/2009	210	379.7	17	73.1	15	25.3
NET		4/28/2009	314	515.0	18	76.2	15	34.3
NET		4/29/2009	155	289.0	6	38.6	11	26.3
NET		4/30/2009	192	342.2	9	31.6	12	28.5
NET		5/1/2009	154	264.7	3	25.0	12	22.1
NET		5/2/2009	69	131.8	.	.	8	16.5
NET		5/3/2009	40	71.5	.	.	8	8.9
NET		5/5/2009	14	27.4	8	56.4	8	3.4
NET		5/6/2009	23	44.6	1	4.8	8	5.6
NET	TOTAL	.	3,532	5,993.7	153	658.8	191	31.4
SPEAR		4/19/2009	15	29.0	.	.	2	.
SPEAR		4/21/2009	120	215.2	.	.	6	.
SPEAR		4/22/2009	4	8.2	.	.	2	.
SPEAR	TOTAL	.	139	252.4	.	.	10	.
TOTAL	TOTAL	.	3,671	6,246.1	153	658.8	201	.



Appendix B. Number and pounds of walleye and northern pike harvested by eight Chippewa Bands (combined and separately) from Mille Lacs Lake during the 2009-2010 quota year. Data are sorted by season (spring and after spring), by harvest method (spearing or netting) and by date.

TRIBE=RED CLIFF

GEAR	DATATYPE	DATE	WALLEYE NUMBER	WALLEYE POUNDS	NPIKE NUMBER	NPIKE POUNDS	PERMITS	WALLEYE POUNDS/NET
NET		4/22/2009	152	260.4	11	44.6	9	28.9
NET		4/23/2009	772	1,277.8	18	68.6	23	55.6
NET		4/24/2009	564	966.4	7	23.1	16	60.4
NET		4/25/2009	1,063	1,944.0	21	93.3	38	51.2
NET		4/27/2009	83	125.4	2	6.0	3	41.8
NET		4/28/2009	424	848.6	12	58.8	18	47.1
NET		4/29/2009	274	498.4	17	88.4	28	17.8
NET		4/30/2009	248	451.8	12	59.6	15	30.1
NET	TOTAL	.	3,580	6,372.8	100	442.4	150	42.5
SPEAR		4/25/2009	8	12.6	.	.	1	.
SPEAR	TOTAL	.	8	12.6	.	.	1	.
TOTAL	TOTAL	.	3,588	6,385.4	100	442.4	151	.

Appendix B. Number and pounds of walleye and northern pike harvested by eight Chippewa Bands (combined and separately) from Mille Lacs Lake during the 2009-2010 quota year. Data are sorted by season (spring and after spring), by harvest method (spearing or netting) and by date.

TRIBE=ST. CROIX

GEAR	DATATYPE	DATE	WALLEYE NUMBER	WALLEYE POUNDS	NPIKE NUMBER	NPIKE POUNDS	PERMITS	WALLEYE POUNDS/NET
NET		4/24/2009	64	115.4	4	13.0	6	19.2
NET		4/25/2009	141	220.4	4	22.2	8	27.6
NET		4/26/2009	209	364.4	10	53.2	14	26.0
NET		4/27/2009	231	398.0	20	66.5	18	22.1
NET		4/28/2009	473	901.0	27	115.8	27	33.4
NET		4/29/2009	497	835.0	21	118.0	48	17.4
NET		4/30/2009	883	1,592.1	20	82.6	41	38.8
NET		5/1/2009	551	969.0	20	93.2	53	18.3
NET		5/2/2009	301	549.4	7	36.8	35	15.7
NET		5/3/2009	329	606.0	9	48.2	30	20.2
NET		5/4/2009	221	493.4	9	39.0	25	19.7
NET		5/5/2009	101	193.8	6	30.0	17	11.4
NET		10/30/2009	39	81.2	.	.	7	11.6
NET		10/31/2009	11	25.8	5	25.0	6	4.3
NET		11/1/2009	1	6.2	2	5.0	6	1.0
NET	TOTAL	.	4,052	7,351.1	164	748.5	341	21.6
SPEAR		4/27/2009	1	6.8	.	.	3	.
SPEAR	TOTAL	.	1	6.8	.	.	3	.
TOTAL	TOTAL	.	4,053	7,357.9	164	748.5	344	.

Appendix B. Number and pounds of walleye and northern pike harvested by eight Chippewa Bands (combined and separately) from Mille Lacs Lake during the 2009-2010 quota year. Data are sorted by season (spring and after spring), by harvest method (spearing or netting) and by date.

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TRIBE=TOTAL								
GEAR	DATATYPE	DATE	WALLEYE NUMBER	WALLEYE POUNDS	NPIKE NUMBER	NPIKE POUNDS	PERMITS	WALLEYE POUNDS/NET
NET		4/3/2009	2	4.2	4	31.8	1	4.2
NET		4/4/2009	6	17.8	10	53.0	2	8.9
NET		4/8/2009	4	9.6	12	37.4	2	4.8
NET		4/10/2009	19	42.4	19	108.6	3	14.1
NET		4/11/2009	51	119.4	6	25.2	4	29.9
NET		4/12/2009	8	17.6	8	31.6	2	8.8
NET		4/13/2009	35	66.0	22	121.2	5	13.2
NET		4/14/2009	48	128.0	29	155.0	6	21.3
NET		4/15/2009	92	235.4	27	127.6	7	33.6
NET		4/16/2009	52	106.0	30	155.0	5	21.2
NET		4/17/2009	584	1,152.4	67	344.2	25	46.1
NET		4/18/2009	500	1,011.2	44	217.2	23	44.0
NET		4/19/2009	327	689.0	31	150.2	14	49.2
NET		4/20/2009	223	450.6	13	45.2	12	37.6
NET		4/21/2009	727	1,121.8	32	124.0	18	62.3
NET		4/22/2009	724	1,358.7	58	243.9	42	32.4
NET		4/23/2009	3,905	6,859.0	118	479.3	130	52.4
NET		4/24/2009	7,892	13,599.9	153	611.1	277	44.6
NET		4/25/2009	11,404	20,965.7	354	1,538.7	380	46.6
NET		4/26/2009	4,842	8,736.6	170	807.9	204	38.2
NET		4/27/2009	5,671	10,386.1	241	1,122.4	268	30.4
NET		4/28/2009	6,215	11,801.6	250	1,242.5	290	33.2
NET		4/29/2009	2,517	4,583.7	108	539.1	193	22.9
NET		4/30/2009	3,475	6,176.4	104	457.1	200	29.1
NET		5/1/2009	1,340	2,406.8	71	381.6	144	16.7
NET		5/2/2009	778	1,448.0	34	219.4	105	13.8
NET		5/3/2009	719	1,313.5	61	326.1	87	15.1
NET		5/4/2009	431	905.4	35	175.8	57	15.9

Appendix B. Number and pounds of walleye and northern pike harvested by eight Chippewa Bands (combined and separately) from Mille Lacs Lake during the 2009-2010 quota year. Data are sorted by season (spring and after spring), by harvest method (spearing or netting) and by date.

TRIBE=TOTAL  
(continued)

GEAR	DATATYPE	DATE	WALLEYE NUMBER	WALLEYE POUNDS	NPIKE NUMBER	NPIKE POUNDS	PERMITS	WALLEYE POUNDS/NET
NET		5/5/2009	170	342.2	16	92.1	33	10.4
NET		5/6/2009	35	68.8	5	25.2	13	5.3
NET		5/7/2009	20	45.4	5	27.6	7	6.5
NET		10/12/2009	11	21.0	5	25.8	7	3.0
NET		10/23/2009	16	34.9	4	29.8	8	4.4
NET		10/30/2009	51	115.8	4	21.2	10	7.2
NET		10/31/2009	13	37.4	12	62.0	10	3.7
NET		11/1/2009	1	6.2	2	5.0	6	1.0
NET		11/10/2009	3	11.8	2	19.0	4	3.0
NET		11/13/2009	.	.	2	17.4	4	0.0
NET		11/16/2009	5	17.6	14	121.6	9	2.0
NET		11/17/2009	.	.	2	19.2	7	0.0
NET		11/19/2009	.	.	2	15.0	2	0.0
NET		11/20/2009	.	.	.	.	2	0.0
NET		11/21/2009	2	3.0	2	20.0	6	0.5
NET		11/24/2009	1	1.6	7	63.6	2	0.8
NET		3/9/2010	.	.	1	12.0	1	0.0
NET		3/10/2010	.	.	.	.	2	0.0
NET		3/14/2010	1	7.0	1	5.0	4	1.8
NET		3/21/2010	6	14.8	6	33.0	3	4.9
NET		3/28/2010	10	29.0	11	44.2	5	5.8
NET		3/29/2010	1	4.6	15	105.0	4	1.2
NET		3/31/2010	17	38.6	17	99.6	4	9.7
NET	TOTAL		52,960	96,520.7	2,258	10,788.0	2,669	32.6
SPEAR		4/10/2009	1	4.4	.	.	1	.
SPEAR		4/17/2009	.	.	.	.	1	.

Appendix B. Number and pounds of walleye and northern pike harvested by eight Chippewa Bands (combined and separately) from Mille Lacs Lake during the 2009-2010 quota year. Data are sorted by season (spring and after spring), by harvest method (spearing or netting) and by date.

TRIBE=TOTAL (continued)								
GEAR	DATATYPE	DATE	WALLEYE NUMBER	WALLEYE POUNDS	NPIKE NUMBER	NPIKE POUNDS	PERMITS	WALLEYE POUNDS/NET
SPEAR		4/18/2009	9	38.0	.	.	5	.
SPEAR		4/19/2009	15	29.0	.	.	2	.
SPEAR		4/21/2009	120	215.2	.	.	6	.
SPEAR		4/22/2009	31	62.2	.	.	7	.
SPEAR		4/26/2009	33	53.2	.	.	3	.
SPEAR		4/27/2009	615	1,184.5	.	.	60	.
SPEAR		4/28/2009	361	794.4	.	.	43	.
SPEAR		5/2/2009	60	107.8	.	.	6	.
SPEAR		5/3/2009	101	187.2	.	.	10	.
SPEAR		5/4/2009	37	70.4	.	.	5	.
SPEAR		3/31/2010	15	48.8	.	.	6	.
SPEAR	TOTAL		2,376	4,847.5			287	.
TOTAL	TOTAL		55,336	101,368.2	2,258	10,788.0	2,956	.

Appendix B. Number and pounds of walleye and northern pike harvested by eight Chippewa Bands (combined and separately) from Mille Lacs Lake during the 2009-2010 quota year. Data are sorted by season (spring and after spring), by harvest method (spearing or netting) and by date.

PERIOD	GEAR	WALLEYE NUMBER	WALLEYE POUNDS	NPIKE NUMBER	NPIKE POUNDS	PERMITS	WALLEYE POUND/ PERMIT
SPRING	NET	52,816	96,169.2	2,137	10,017.0	2,560	37.5
SPRING	SPEAR	2,361	4,798.7	.	.	277	17.3
SPRING	TOTAL	55,177	100,967.9	2,137	10,017.0	2,837	35.6
FALL	NET	109	257.5	70	472.2	87	3.2
FALL	TOTAL	109	257.5	70	472.2	87	3.2
PRE-SPRING	NET	35	94.0	51	298.8	23	4.1
PRE-SPRING	SPEAR	15	48.8	.	.	6	8.1
PRE-SPRING	TOTAL	50	142.8	51	298.8	29	4.9

Appendix C. Catch Report Form: 1837 Minnesota Ceded Territory

CATCH REPORT FORM: MINNESOTA

LAKE	START TIME (am or pm)	<input type="checkbox"/> 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 #
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34											

TOTAL WEIGHT (POUNDS)	TOTAL WEIGHT (POUNDS)	TOTAL WEIGHT (POUNDS)	TOTAL WEIGHT (POUNDS)
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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 D. Number of members/permits per band that speared only, gill-netted only, or speared and gill-netted for one or more nights during spring 2009 in Mille Lacs Lake.

Number of Nights	MIL	FDL	BRV	LCO	LDF	MLK	RCF	STC	Total:	Percent of Total Members **	Cumulative Percent:
<b>Spearing Only</b>											
1	3	13		1	1		1	2	21	87.5	87.5
2		1							1	4.2	91.7
3		2							2	8.3	100.0
Total members	3	16		1	1		1	2	24	100.0	
Total permits	3	27		1	1		1	2	35		
<b>Gill-Netting Only</b>											
Number of Nights	MIL	FDL	BRV	LCO	LDF	MLK	RCF	STC	Total:	Percent of Total Members **	Cumulative Percent:
1	42	35	29	8	7		16	11	148	32.0%	32.0%
2	43	14	10	10	28	1	2	13	121	26.1%	58.1%
3	29	13	8	9	17	7	3	6	92	19.9%	78.0%
4	19	5	1	4	4		3	6	42	9.1%	87.0%
5	16	2	1			5		2	26	5.6%	92.7%
6	5				2	1		2	10	2.2%	94.8%
7	5			1					6	1.3%	96.1%
8	5							1	6	1.3%	97.4%
9				1					1	0.2%	97.6%
10	2		1						3	0.6%	98.3%
11	1								1	0.2%	98.5%
12	2			1					3	0.6%	99.1%
13	2								2	0.4%	99.6%
15	1								1	0.2%	99.8%
16	1								1	0.2%	100.0%
Total members	173	69	50	34	58	14	24	41	463		
Total permits	590	152	278	346	274	177	150	318	2,282		
<b>Spearing and Gill-Netting</b>											
Number of Nights	MIL	FDL	BRV	LCO	LDF	MLK	RCF	STC	Total:	Percent of Total Members **	Cumulative Percent
1	1	13							14	18.7%	18.7%
2	4	8	4		3			1	20	26.7%	45.3%
3	1	17			4				22	29.3%	74.7%
4	1	6			3	1			11	14.7%	89.3%
5		1				1			2	2.7%	92.0%
6		1							1	1.3%	93.3%
7	1								1	1.3%	94.7%
8									0	0.0%	94.7%
9	1								1	1.3%	96%
10	1								1	1.3%	97%
11	1								1	1.3%	99%
12									0	0.0%	99%
13	1								1	1.3%	100%
Total Members	12	46	4		10	2		1	75	100.0%	
Spearing Permits	23	154	10		44	10		1	245		
Gill-Netting Permits	62	117	22		56	14		4	275		
Total Permits	85	271	32		100	24		5	520		
<b>Grand Total</b>											
	MIL	FDL	BRV	LCO	LDF	MLK	RCF	STC	Total:		
Members	188	131	54	35	69	16	25	44	562		
Spearing Permits	26	181	10	1	45	10	1	3	277		
Gill-Netting Permits	652	269	300	346	330	191	150	322	2,560		
Total Permits	678	450	310	347	375	201	151	325	2,837		

\* Also, 87 permits were issued for gill-netting in fall 2009; 23 gill-netting permits and 6 spearing permits were issued in early spring 2010 (Appendix B)

\*\* Percent of total members that fished the specified number of nights



Appendix E. Number of net lifts, walleye harvest, and walleye CPE per mesh size in Mille Lacs Lake during spring 2009.

Date	1.25 inch mesh (bar)					1.5 inch mesh (bar)					1.75 inch mesh (bar)					All Mesh Sizes				
	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	No. Lifts	Total Number	Total Pounds	CPE: Number/Net-Lift	CPE: Pounds/Net-Lift
4/3/2009											1	2	4.2	2	4.2	1	2	4.2	2	4.2
4/4/2009											2	6	17.8	3	8.9	2	6	17.8	3	8.9
4/5/2009																				
4/6/2009																				
4/7/2009																				
4/8/2009											2	4	9.6	2	4.8	2	4	9.6	2	4.8
4/9/2009																				
4/10/2009											3	19	42.4	6.3	14.1	3	19	42.4	6.3	14.1
4/11/2009											4	51	119.4	12.8	29.9	4	51	119.4	12.8	29.9
4/12/2009											2	8	17.6	4	8.8	2	8	17.6	4	8.8
4/13/2009											5	35	66.0	7	13.2	5	35	66.0	7	13.2
4/14/2009											6	48	128.0	8	21.3	6	48	128.0	8	21.3
4/15/2009											7	92	235.4	13.1	33.6	7	92	235.4	13.1	33.6
4/16/2009											5	52	106.0	10.4	21.2	5	52	106.0	10.4	21.2
4/17/2009											25	584	1,152.4	23.4	46.1	25	584	1,152.4	23.4	46.1
4/18/2009											23	500	1,011.2	21.7	44	23	500	1,011.2	21.7	44.0
4/19/2009											14	327	689.0	23.4	49.2	14	327	689.0	23.4	49.2
4/20/2009											12	223	450.6	18.6	37.6	12	223	450.6	18.6	37.6
4/21/2009						2	78	121.8	39	60.9	16	649	1,000.0	40.6	62.5	18	727	1,121.8	79.6	62.3
4/22/2009						7	103	177.2	14.7	25.3	35	621	1,181.5	17.7	33.8	42	724	1,358.7	32.4	32.4
4/23/2009						4	135	235.4	33.8	58.9	127	3,770	6,623.6	29.9	52.6	131	3,905	6,859.0	63.7	52.4
4/24/2009	1	60	121.8	60	121.8	1	44	89.4	44	89.4	303	7,788	13,388.7	29.5	50.7	305	7,892	13,599.9	133.5	44.6
4/25/2009	1	57	100.6	57	100.6	2	50	105	25	52.5	447	11,297	20,760.1	30.1	55.4	450	11,404	20,965.7	112.1	46.6
4/26/2009	11	190	358.4	17.3	32.6	2	57	106.4	28.5	53.2	216	4,595	8,271.8	24.4	44	229	4,842	8,736.6	70.2	38.2
4/27/2009	5	73	132.8	14.6	26.6	1	9	21.4	9	21.4	336	5,589	10,231.9	21.7	39.7	342	5,671	10,386.1	45.3	30.4
4/28/2009	3	36	70.4	12	23.5	1	14	24	14	24	352	6,165	11,707.2	21.9	41.7	356	6,215	11,801.6	47.9	33.2
4/29/2009	3	54	97.6	18	32.5	1	8	15.2	8.0	15.2	196	2,455	4,470.9	13.1	23.9	200	2,517	4,583.7	39.1	22.9
4/30/2009	3	55	97.4	18.3	32.5	1	10	20.2	10.0	20.2	196	3,410	6,058.8	17.4	30.9	200	3,475	6,176.4	45.7	30.9
5/1/2009	3	39	64.4	13	21.5						141	1,301	2,342.4	9.2	16.6	144	1,340	2,406.8	22.2	16.7
5/2/2009											105	778	1,448.0	7.4	13.8	105	778	1,448.0	7.4	13.8
5/3/2009											87	719	1,313.5	8.3	15.1	87	719	1,313.5	8.3	15.1
5/4/2009											57	431	905.4	7.6	15.9	57	431	905.4	7.6	15.9
5/5/2009											33	170	342.2	5.2	10.4	33	170	342.2	5.2	10.4
5/6/2009											13	35	68.8	2.7	5.3	13	35	68.8	2.7	5.3
5/7/2009											7	20	45.4	2.9	6.5	7	20	45.4	2.9	6.5
Total	30	564	1,043.4	18.8	34.8	22	508	916	23.1	41.6	2,778	51,744	94,209.8	18.6	33.9	2,830	52,816	96,169.2	18.7	34.0

Appendix F. Quota or cap, harvest, and percent of quota or cap harvested by band and overall for five fish species during the 2009-2010 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)	25,000	22,000	12,000	14,000	17,500	12,000	12,000	12,000	126,500
	Pounds Harvested	24,183	20,906	9,989.2	9,969.2	16,331.4	6,246.1	6,385.4	7,357.9	101,368
	Number Harvested	12,962	11,047	5,670	5,621	8,724	3,671	3,588	4,053	55,336
	Percent of Quota Harvested	96.7%	95.0%	83.2%	71.2%	93.3%	52.1%	53.2%	61.3%	80.1%
Northern Pike	Cap (Pounds)	6,315	824	1,193	1,003	1,098	703	577	783	12,496
	Pounds Harvested	4,972	823.7	1,167.7	877.2	1,097.7	658.8	442.4	748.5	10,788
	Number Harvested	1,005	170	256	178	232	153	100	164	2,258
	Percent of Quota Harvested	78.7%	100.0%	97.9%	87.5%	100.0%	93.7%	76.7%	95.6%	86.3%
Yellow Perch	Quota (Pounds)	40,000	2,000	5,714	5,714	10,000	14,000	10,000	10,000	97,428
	Pounds Harvested	294.8	427.1	833	427.6	317.1	191.6	325.2	536.2	3,352.6
	Number Harvested	403	543	1,100	572	394	275	387	724	4,398
	Percent of Quota Harvested	0.7%	21.4%	14.6%	7.5%	3.2%	1.4%	3.3%	5.4%	3.4%
Tullibee*	Pounds Harvested	748.8	137.2	7	11.2	6.2	5.6	4.6	366	1,286.6
	Number Harvested	644	79	6	6	5	4	4	247	995
Burbot*	Pounds Harvested	139.6	49.7	54	52.4	61.1	48	14.2	190.1	609.1
	Number Harvested	73	28	31	30	30	28	8	104	332

\* The quotas for tullibee/cisco and burbot were removed at the January 2008 meeting of the Minnesota 1837 Ceded Territory Fisheries Committee.

Appendix G. Length frequency and average weight of walleye harvested by gill net and spearing in Mille Lacs Lake during the 2009-2010 quota year.

Season	Gear	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
Spring 2009	Gill-net 1.5 mesh	M		1		4	19	91	119	48	39	10	3	2		1	2	1			1	341	341	5,672.5	16.6			
		F					2		2		5	10	9	2	3	1	1	1				36	36	751.3	20.9			
		U													1							1	1	22.1	22.1			
		NA																					130					
		T	1		4	19	93	119	50	39	15	13	11	3	4	3	2	1		1	378	508	6,445.9	17.1	916.0	1.8		
Spring 2009	Gill-net 1.25 mesh	M																										
		F																										
		NM																										
		T																									1,043.4	1.9
Spring 2009	Gill-net 1.75 mesh	M	2	6	4	33	256	1,364	2,359	1,142	760	384	133	148	89	43	15	2	1	2	2	1	6,746	6,748	114,836.2	17.0		
		F					2	15	55	145	124	126	130	122	58	58	30	18	11	6			900	900	17,971.3	20.0		
		U				1	6	17	30	20	27	21	26	23	14	15	16	9	4	1			230	230	4,526.3	19.7		
		NA			1	2	6	34	40	29	17	6	32	1	4	4					1	1	179	43,866	3,166.4	17.7		
		T	2	6	5	36	270	1,430	2,484	1,336	928	537	321	294	165	120	61	30	16	10	3	1	8,055	51,744	140,500.2	17.4	94,209.8	1.8
Spring 2009	Spear	M		1	9	102	237	283	370	275	297	168	71	90	57	21	6	2	1	1			1,991	1,993	34,316.0	17.2		
		F						4	10	21	56	63	29	18	26	32	25	13	4	1			302	302	6,541.2	21.7		
		U				2	4	3	3	3	1	4	2										23	23	394.3	17.1		
		NA					1	2	1	3													8	43	138.2	17.3		
		T	1	9	104	242	288	378	291	319	228	136	119	75	47	39	28	14	5	1			2,324	2,361	41,389.7	17.8	4,798.7	2.0
After Spring 2009	Gill-net 1.75 mesh	M				1	4	4	1	2												12	12	197.6	16.5			
		F													1							1	1	22.1	22.1			
		U														1		2				4	4	83.6	20.9			
		NA			1	1	3	17	7	8	5	1	1	4	4	3	1	1	1				58	127	1,043.9	18.0		
		T		1	1	4	21	12	9	7	1	1	5	5	2	3	1	1	1			75	144	1,347.2	18.0	351.5	2.4	
After Spring 2009	Spear	U																										
		T																						15			48.8	3.3
Entire Year	AllGear	M	2	8	13	139	513	1,742	2,852	1,466	1,098	562	207	240	146	65	23	5	2	3	3	1	9,090	9,094	155,022.3	17.1		
		F					2	17	59	157	145	187	203	160	79	87	63	44	25	10	1		1,239	1,239	25,285.9	20.4		
		U				3	10	20	34	23	28	25	28	24	15	17	17	9	4	1			258	258	5,026.3	19.5		
		NA			2	3	10	53	48	40	22	7	33	5	8	4	3	3	1	2	1		245	44,746	4,348.5	17.7		
		T	2	8	15	145	535	1,832	2,993	1,686	1,293	781	471	429	248	173	106	61	32	16	5	1	10,832	55,336	189,683.0	17.5	101,368.2	1.8

\* F = Female; M = Male; U = Unknown; NM = Not Measured; NA = Measured but not sexed; T = Total.



Appendix I. Length frequency and average weight of yellow perch harvested by gill net and spearing in Mille Lacs Lake during the 2009-2010 quota year.

Season	Gear	Sex*	Inch Group					Total Measured	Total Harvest	Total Length (Inches)	Mean Length (Inches)	Aggregate Weight (Pounds)	Mean Weight (Pounds)					
			6	7	8	9	10							11	12	13	14	
Spring 2009	Gill-net 1.5	M																
		F																
		U																
		NA																
		T							8									
		T							8			6.8	0.9					
Spring 2009	Gill-net 1.25	NA								51								
		T								51			40.8	0.8				
Spring 2009	Gill-net 1.75	M		1	1	39	84	42			1	168	168	1,755.5	10.4			
		F				3	32	73	19				127	127	1,427.3	11.2		
		U				1	3	4	1				9	9	99.1	11.0		
		NA	1				1	1	1	1			5	4,025	53.6	10.7		
		T			1	43	120	120	21	1	1	309	4,329	3,335.5	10.8	3,298.6	0.8	
Spring 2009	Spear	NA											2					
		T												2			1.0	0.5
After Spring 2009	Gill-net 1.75	U																
		NA				1	2		2				5	8	54.5	10.9		
		T				1	2		2			5	8	54.5	10.9	5.4	0.7	
Entire Year	All Gear	M		1	1	39	84	42			1	168	168	1,755.5	10.4			
		F				3	32	73	19				127	127	1,427.3	11.2		
		U				1	3	4	1				9	9	99.1	11.0		
		NA	1			1	3	1	3	1			10	4,094	108.1	10.8		
		T			1	44	122	120	23	1	1	314	4,398	3,390.0	10.8	3,352.6	0.8	

\*F = Female; M = Male; U = Unknown; NM = Not Measured; NA = Measured but not sexed; T = Total.

Appendix J. Length frequency and average weight of tullibee harvested by gill net and spearing in Mille Lacs Lake during the 2009-2010 quota year.

Season	Gear	Sex*	Inch Group									Total Measured	Total Harvest	Total Length (Inches)	Mean Length (Inches)	Aggregate Weight (Pounds)	Mean Weight (Pounds)		
			7	8	9	10	11	12	13	14	15							16	17
Spring 2009	Gill-net 1.75	U								3	3	1	1	8	8	124.2	15.5		
		NA								1				1	47	14.6	14.6		
		T								4	3	1	1	9	55	138.8	15.4	83.4	1.5
Fall 2009	Gill-net 1.75	M							1	1			4	4	58.5	14.6			
		F					2	5	2	1	2	1	13	13	172.5	13.3			
		NA	7	9	23	30	22	68	20	27	35	17	258	923	3,185.3	12.3			
		T		9	23	30	24	74	22	29	38	19	275	940	3,416.3	12.4	1,203.2	1.3	
Entire Year	AllGear	M							1	1			4	4	58.5	14.6			
		F					2	5	2	1	2	1	13	13	172.5	13.3			
		U								3	3	1	1	8	8	124.2	15.5		
		NA	7	9	23	30	22	68	20	28	35	17	259	970	3,199.9	12.4			
		T		9	23	30	24	74	22	33	41	20	1	284	995	3,555.1	12.5	1,286.6	1.3

\* F = Female; M = Male; U = Unknown; NM = Not Measured; NA = Measured but not sexed; T = Total.

Appendix K. Length frequency and average weight of burbot harvested by gill net and spearing in Mille Lacs Lake during the 2009-2010 quota year.

Season	Gear	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
Spring 2009	Gill-net 1.5	U																					
		NA																	1				
		T																	1			1.4	1.4
Spring 2009	Gill-net 1.75	F									1						1	1	19.2	19.2			
		U	1		1		1	2	10	8	16	4	1		1			45	45	784.5	17.4		
		NA							1	1	1				2			5	283	94.6	18.9		
		T	1		1		1	2	11	9	17	5	1	2	1			51	329	898.3	17.6	604.7	1.8
Spring 2009	Gill-net 1.25	NM																1					
		T																1			1.6	1.6	
Fall 2009	Gill-net 1.75	F																					
		U																					
		NA															1	1	17.0	17.0			
		T														1	1	17.0	17.0	1.4	1.4		
Entire Year	All Gear	F									1						1	1	19.2	19.2			
		U	1		1		1	2	10	8	16	4	1		1			45	45	784.5	17.4		
		NA							1	2	1				2			6	286	111.6	18.6		
		T	1		1		1	2	11	10	17	5	1	2	1			52	332	915.3	17.6	609.1	1.8

\* F = Female; M = Male; U = Unknown; NM = Not Measured; NA = Measured but not sexed; T = Total.