



Open Water Spearing in Northern Wisconsin by Chippewa Indians During 2003

by

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**Administrative Report 2004-01
March 2004**

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ABSTRACT

The year two-thousand three (2003) marked the nineteenth consecutive spring that spear fishing was conducted by Chippewa tribes in off-reservation waters of northern Wisconsin. A total of 399 tribal members participated in this traditional fishery. Spearing for walleye occurred on 166 lakes and walleye were harvested from all except 3 lakes. A total of 28,063 fish were taken with 98% of the catch (27,502 fish) being walleye. Numbers of other gamefish harvested were 222 muskellunge, 196 bass, and 22 northern pike. Average lengths were 15.6 inches for walleye and 38.9 inches for muskellunge. The tribal walleye quota was exceeded by a total of 124 fish on five lakes. On the remaining lakes, harvest of walleye and muskellunge was maintained within the established limits by a nightly permit system and complete monitoring of the catch.

TABLE OF CONTENTS

	PAGE
LIST OF TABLES	iii
LIST OF FIGURES	iv
INTRODUCTION	1
Regulations	1
Permit System and Monitoring	1
RESULTS AND DISCUSSION	4
Fishing Effort	4
Number of Spearers.....	4
Number of Spearer-nights or Permits Used	6
Number of Boat-hours	8
Total Harvest	10
Walleye Harvest	11
Mean Length	12
Sex Composition of Catch	13
Catch Per Effort (CPE)	14
Muskellunge Harvest	16
Bass Harvest	18
Northern Pike Harvest	20
ACKNOWLEDGMENTS	22
LITERATURE CITED	23
LIST OF APPENDICES	24

LIST OF TABLES

TABLE	PAGE
1 Number of spearers on lakes selected by six Wisconsin Chippewa bands during spring spearing from 1986-2003	4
2 Number of spearer-nights on lakes selected by six Wisconsin Chippewa bands during spring spearing from 1986-2003	6
3 Number of spearer boat-hours on lakes selected by six Wisconsin Chippewa bands during spring spearing from 1986-2003	8
4 Number of interviews and average length of spearing trip (in boat-hours) during spring spearing from 1989-2003	9
5 Number of various fish species harvested during spring spearing seasons from 1999-2003	10
6 Number of lakes with a tribal walleye quota, spearing effort, and harvest plus percent of overall quota harvested from 1989-2003	11
7 Number and percent of walleye that were sexed and were male, female, or unknown sex during spring spearing seasons from 1985-2003	13
8 Range and average catch rates for walleye in lakes speared during spring spearing seasons from 1987-2003	15
9 Number of lakes with a tribal muskellunge quota with harvest and percent of overall quota harvested from 1990-2003	16

LIST OF FIGURES

FIGURE		PAGE
1	Map depicting the ceded territory in northern Wisconsin	2
2	Off-reservation Treaty Fishing Permit used during the 2003 open-water season	3
3	Number of spearkers during spring spearing seasons from 1986-2003	5
4	Number of spearer-nights during spring spearing seasons from 1986-2003	7
5	Number of boat-hours of effort during spring spearing seasons from 1986-2003	9
6	Number of walleye and percent of quota harvested during spring spearing seasons from 1989-2003	12
7	Length frequency of walleye speared during 2003 and during the nineteen year period 1985-2003	12
8	Sex composition of the walleye harvest during spring spearing seasons from 1985-2003	14
9	Walleye CPE (number per boat-hour) by lake during the 2003 spring spearing season	15
10	Number of muskellunge harvested during spring spearing seasons from 1985-2003	17
11	Length frequency of muskellunge speared during 2003 and during the nineteen year period 1985-2003	17
12	Number of bass harvested during spring spearing seasons from 1985-2003.....	19
13	Length frequency of bass speared during 2003 and during the nineteen year period 1985-2003	19
14	Number of northern pike harvested during spring spearing seasons from 1985-2003	21
15	Length frequency of northern pike speared during 2003 and during the nineteen year period 1985-2003	21

INTRODUCTION

This report presents data for harvest and effort by Chippewa spearmen in ceded territory waters of northern Wisconsin (Figure 1) during spring 2003. Since 1989, fall spearing and summer gill-netting have occasionally occurred in off-reservation waters. No spearing or netting occurred during summer and fall 2003.

REGULATIONS

Regulations governing the use of spears and nets for harvesting walleye and muskellunge were adopted by each of the six Wisconsin tribes and became permanent in 1989. A listing of the major differences between permanent regulations and negotiated interim rules that governed tribal harvest in 1988 can be found in Kmiecik and Shively (1990).

PERMIT SYSTEM AND MONITORING

The permit system has operated in the same manner since 1988. Permits (Figure 2) were issued at a tribal office during the day or at the designated boat landing at night. The number of permits that could be issued was determined daily by dividing the remaining tribal quota (TQ) for a lake by the nightly bag limit selected for that lake. Lakes were closed to further spearing of walleye and to all netting once the walleye TQ was reached. However, spearing permits could be issued for harvest of other species.

All spearing was monitored by tribal creel clerks under the supervision of Great Lakes Indian Fish and Wildlife Commission (GLIFWC) wardens and biologists. A set of instructions for collecting biological data was provided to creel clerks at a training meeting prior to the spring season.

During spearing, teams of creel clerks and wardens were assigned to each lake in some areas and only to lakes where permits had been issued in other areas. These teams arrived at the designated boat landing before dark and prepared a work area. Upon return of each boating party, a catch report form was completed. For species other than walleye, all fish were identified, counted, sex determined, and measured. For walleye, all fish were counted. Also, the first 100 walleye plus all those in the last boat were measured and sex determined. In addition, permits were collected and a record made of each person's tribal ID number, the time spearing started and the time it ended.

Harvest and effort for each lake were totaled and reported by 9 a.m. the following day to administrative staff at the GLIFWC office in Odanah. These data were then transmitted to tribal and Wisconsin Department of Natural Resources (WDNR) representatives by 10 a.m. and used to update walleye and muskellunge TQ's. Starting in 1993 all catch report forms were also faxed in daily. Before noon, tribal representatives notified GLIFWC of the lakes and bag limits selected for spearing that night. In turn, these data were transmitted to the WDNR.

Figure 1. Map depicting the ceded territory and tribal lands in northern Wisconsin. Heavy line indicates approximate ceded territory boundary.

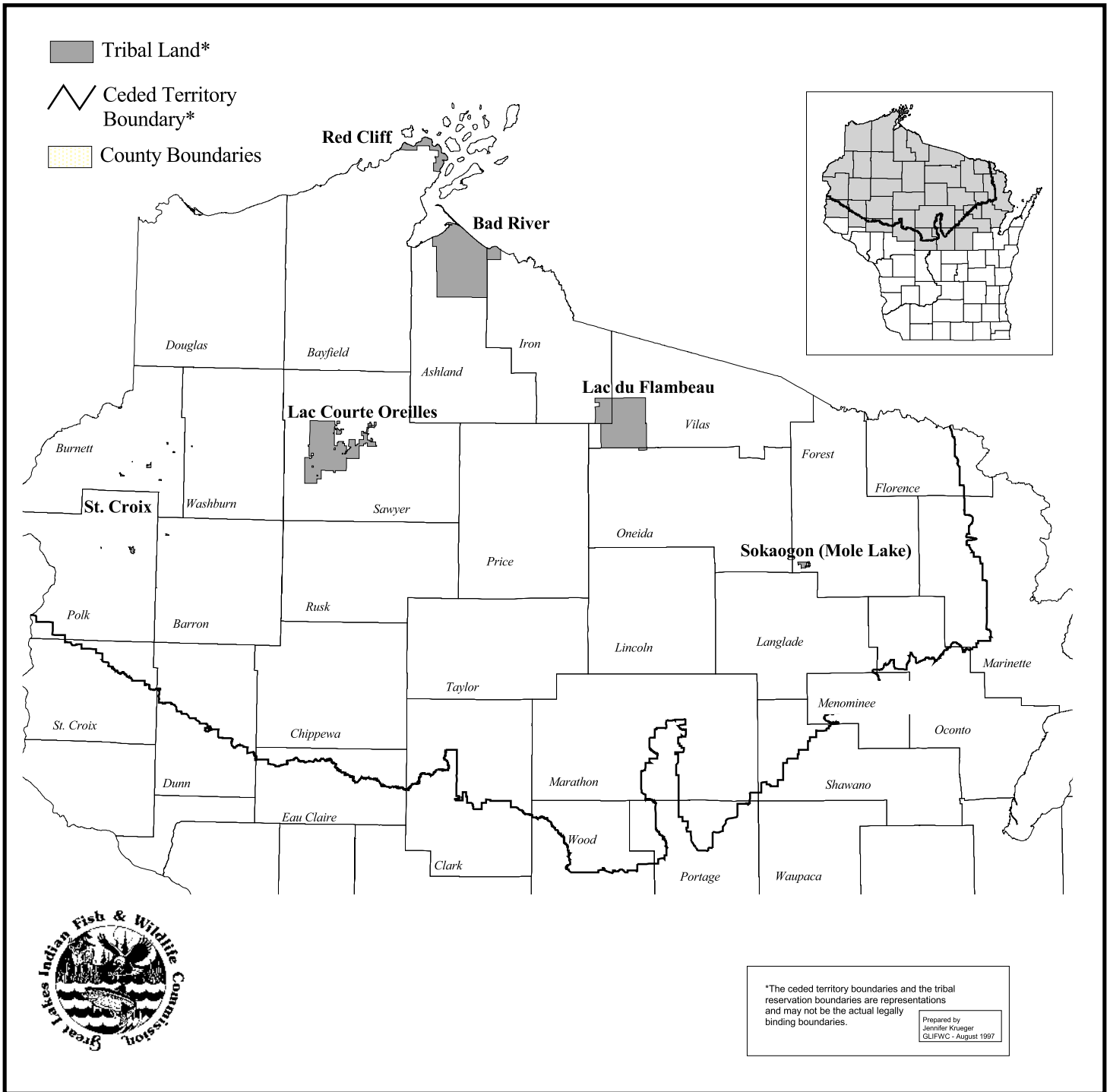


Figure 2 Off-Reservation Treaty Fishing Permit used during the 2003 open-water season.

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							6	
26	<input type="checkbox"/> Seining <input type="checkbox"/> Gill Netting							7	
25	Tribal ID Number _____ of _____ Reservation								
	Signature of Permittee: _____								
24	Issued by: _____ of _____ Reservation								
23	Water: _____ County: _____								
	Bag Limit: Walleye _____ Muskellunge _____								
22	Other Restrictions: _____								
21	20	19	18	17	16	15	14	13	12

FRONT

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

RESULTS AND DISCUSSION

Fishing Effort

As in previous years, effort in the spring spear fishery was measured in three ways: by the number of spearkers, the number of spearker-nights, and the number of boat-hours.

Number of spearkers. All tribal members spearing under permits issued by each tribe were counted as an individual spearker for that tribe regardless of whether the spearker was an enrolled member of the tribe issuing permits. A total of 399 tribal members participated in the 2003 spring spear fishery (Table 1, Figure 3, Appendix A). Compared to 2002 the total number of spearkers decreased by 20 persons or 5%.

Table 1. Number of spearkers on lakes selected by six Wisconsin Chippewa bands during spring spearing from 1986-2003¹.

YEAR	BRV	LCO ²	LDF	MLK	RCF	STC ³	TOTAL:
1986	2	26	119	32		15	194
1987	22	58	206	70		63	419
1988	35	48	200	63	14	66	426
1989	27	30	118	31	23	42	271
1990	46	43	142	46	40	64	381
1991	38	56	137	50	47	65	393
1992	36	41	112	40	52	64	345
1993	34	72	111	55	36	51	359
1994	31	87	134	66	31	70	419
1995	39	68	150	53	44	67	421
1996	25	50	153	54	42	61	385
1997	57	74	139	64	59	62	455
1998	75	85	156	78	51	69	514
1999	44	61	148	66	52	57	428
2000	44	78	151	61	57	50	441
2001	36	67	139	71	55	41	409
2002	34	56	150	63	54	62	419
2003	30	53	154	62	46	54	399
PERCENT CHANGE: 2002-2003	-12%	-5%	+3%	-2%	-15%	-13%	-5%

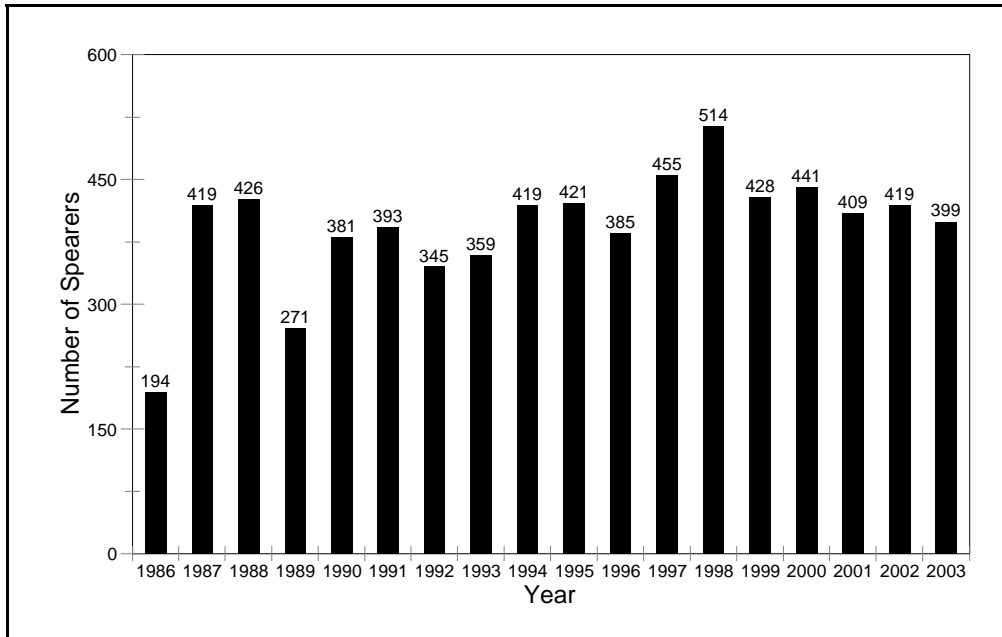
¹Abbreviations for the various bands are: BRV = Bad River, LCO = Lac Courtes Oreilles, LDF = Lac du Flambeau, MLK = Mole Lake, RCF = Red Cliff, and STC = St. Croix.

²Includes members from Mille Lacs tribe in 1990, 1991, 1993, and 1994.

³Includes members from Mille Lacs tribe from 1988-2003.

All persons spearing on lakes selected by Bad River, Lac Courte Oreilles, Lac du Flambeau, and Red Cliff were members of that tribe (30, 53, 154, and 46 persons, respectively). Of the 62 members spearing on lakes selected by Mole Lake, 1 was a member of the Red Cliff tribe. Lakes selected by St. Croix were also speared by 2 Bad River members and 2 Mille Lacs members.

Figure 3. Number of spearers during spring spearing seasons from 1986-2003.



Number of Spearer-nights or Permits Used. In a previous report (Kmiecik 1991), special clarification was given to the definition of "spearer-nights". It should be understood that the total number of "spearer-nights" is not simply the total number of nights that all tribal members speared, because some individuals speared under more than one permit on a single night. Additional permits have been issued at night at a boat landing on a "first come, first served" basis and only when enough fish remained in the tribal quota for a lake so that other permits could be issued. Persons receiving a second, third, or fourth permit may have speared on the same lake, a different lake, or both the same and a different lake. With this clarification in mind, this effort statistic will continue to be referred to as spearer-nights, but it can also be viewed as a count of the total number of permits used.

Table 2. Number of spearer-nights on lakes selected by six Wisconsin Chippewa bands during spring spearing from 1986-2003.

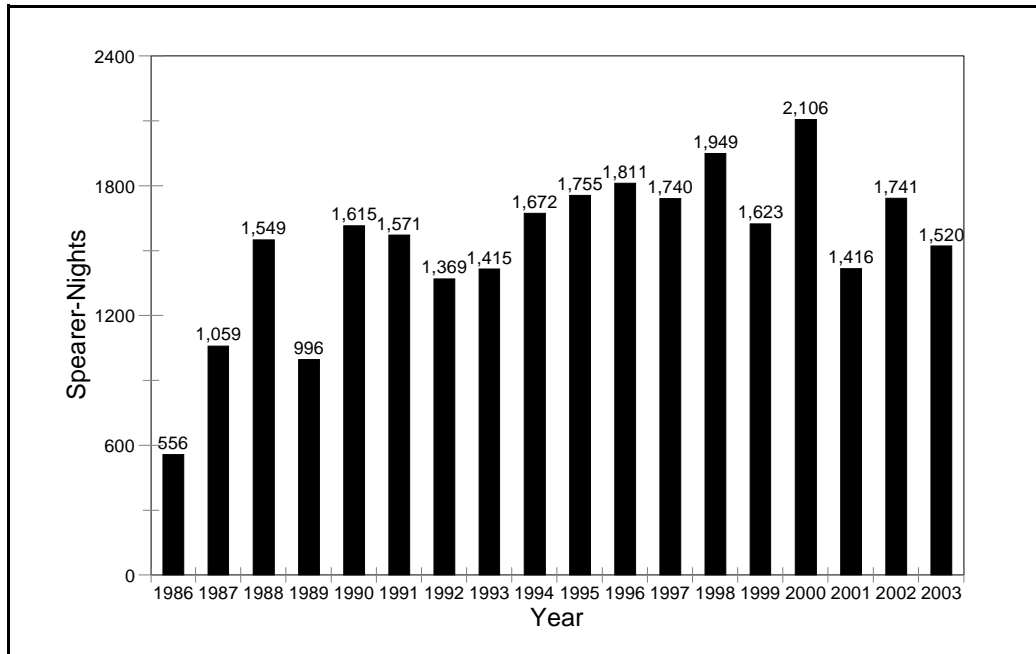
YEAR	BRV	LCO ¹	LDF	MLK	RCF	STC ²	TOTAL:
1986	2	50	382	72		50	556
1987	43	140	695	205		181	1,264
1988	64	165	788	249	37	246	1,549
1989	70	109	429	120	100	168	996
1990	174	116	751	221	124	229	1,615
1991	151	216	605	201	160	238	1,571
1992	140	140	512	177	168	232	1,369
1993	172	218	469	241	144	171	1,415
1994	129	255	700	167	132	289	1,672
1995	164	215	677	241	135	323	1,755
1996	120	215	712	294	119	351	1,811
1997	144	301	554	299	167	275	1,740
1998	172	331	700	307	135	304	1,949
1999	136	282	609	253	131	212	1,623
2000	178	388	774	285	186	295	2,106
2001	105	216	537	214	143	201	1,416
2002	155	196	605	271	152	362	1,741
2003	122	234	517	214	116	317	1,520
PERCENT CHANGE: 2001-2002	-21%	+19%	-15%	-21%	-24%	-12%	-13%

¹Includes spearer-nights for Mille Lacs tribe in 1990, 1991, 1993, and 1994.

²Includes spearer-nights for Mille Lacs tribe from 1988-2003.

A total of 1,520 spearer-nights were recorded during spring 2003 (Table 2, Figure 4, Appendix B). About one-third of this effort (517 spearer-nights) occurred on lakes selected by Lac du Flambeau. Spearer-nights on lakes selected by the other five tribes ranged from 116 at Red Cliff to 317 at St. Croix. Compared to 2002, effort decreased by 221 spearer-nights or 13%.

Figure 4. Number of spearer-nights during spring spearing seasons from 1986-2003.



Number of Boat-Hours. A total of 1,662 boat-hours of effort was recorded in 2003 (Table 3, Figure 5, Appendix B). Compared to 2002, the number of boat-hours decreased by 9% (163 boat-hours). About one-third of the effort (523 boat-hours or 31%) occurred on lakes selected by Lac du Flambeau. Boat-hours on lakes selected by the other five tribes ranged from 142 at Red Cliff to 331 at St. Croix.

Table 3. Number of spearer boat-hours on lakes selected by six Wisconsin Chippewa bands during spring spearing from 1986-2003.

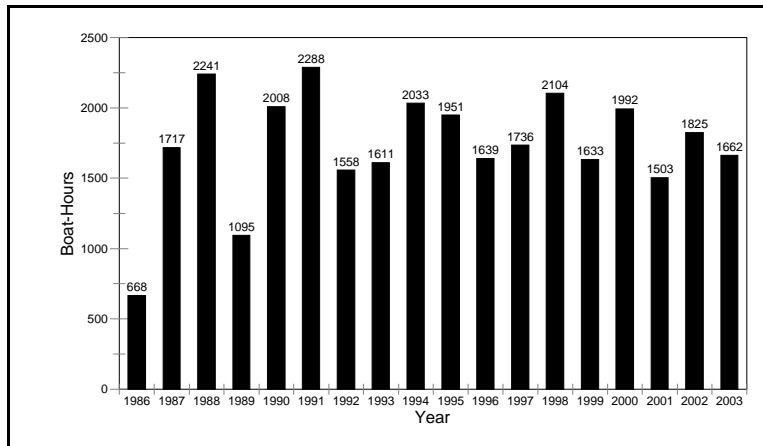
Year	BRV ¹	LCO ²	LDF	MLK	RCF	STC ³	Total:
1986	2	53	440	95		78	668
1987	46	163	976	252		280	1,717
1988	173	247	1094	393		334	2,241
1989	135	122	364	155	109	210	1,095
1990	254	151	787	298	181	338	2,008
1991	288	283	704	344	226	444	2,288
1992	206	221	453	218	178	281	1,558
1993	201	290	459	297	164	200	1,611
1994	172	356	743	247	133	381	2,033
1995	163	359	618	298	144	369	1,951
1996	131	304	641	156	105	302	1,639
1997	138	414	472	236	178	298	1,736
1998	220	416	650	345	118	355	2,104
1999	189	368	513	225	128	210	1,633
2000	226	427	570	202	201	366	1,992
2001	157	273	458	214	171	230	1,503
2002	181	233	489	325	203	395	1,825
2003	152	245	523	268	142	331	1,662
PERCENT CHANGE: 2002-2003	-16%	+5%	+7%	-18%	-30%	-16%	-9%

¹Includes Red Cliff boat-hours in 1988.

²Includes effort for Mille Lacs tribe in 1990, 1991, 1993, and 1994.

³Includes effort for Mille Lacs tribe from 1988-2003.

Figure 5. Number of boat-hours of effort during spring spearing seasons from 1986-2003.



For all tribes combined, a total of 659 interviews were conducted and effort (boat-hours) was determined for all (Appendix B). Average length of a trip was 2.5 boat-hours (Table 4).

Table 4. Number of interviews and average length of spearing trip (in boat-hours) during spring spearing from 1989-2003.

YEAR	AVERAGE LENGTH OF TRIP:						TOTAL
	BRV	LCO ¹	LDF	MLK	RCF	STC ¹	
1989	4.1	2.4	2.5	2.6	2.5	2.7	2.7
1990	3.3	2.8	2.7	3.1	3.5	3.1	3.1
1991	3.9	3.0	2.8	3.9	2.8	3.5	3.3
1992	3.0	3.2	2.0	2.8	2.4	2.4	2.5
1993	2.6	2.4	2.6	2.7	2.7	2.3	2.6
1994	3.2	3.0	2.9	3.5	2.3	3.0	3.0
1995	2.1	3.5	2.0	2.8	2.7	2.5	2.5
1996	2.4	2.9	2.2	1.3	2.0	2.2	2.2
1997	2.7	3.0	2.2	2.3	2.6	2.4	2.5
1998	3.4	2.6	2.2	2.5	2.3	2.2	2.4
1999	3.2	2.7	2.0	2.0	2.2	2.2	2.3
2000	2.8	2.1	1.8	1.5	2.6	2.5	2.1
2001	2.7	2.6	2.2	2.4	2.8	2.5	2.4
2002	2.2	2.4	2.0	2.5	2.9	2.4	2.3
2003	2.6	2.4	2.6	2.7	2.7	2.3	2.5
2003 Boat-hours:	152	245	523	268	142	331	1,662
2003 interviews with effort:	59	103	200	98	52	147	659
2003 interviews without effort:	0	0	0	0	0	0	0

¹Includes effort for Mille Lacs tribe.

Total Harvest

Fourteen taxa of fish were harvested during the 2003 spring spear fishery (Table 5). Of the 28,063 fish taken 98% were walleye. Percentages of the total catch for other game fish species were 0.79% for muskellunge, 0.69% for bass, and 0.07% for northern pike. Other species combined (panfish and rough fish) totaled 121 fish and made up the remaining 0.43% of the harvest.

Table 5. Number of various fish species harvested during spring spearing seasons from 1999-2003.

Species:	1999	2000	2001	2002	2003
Walleye	26,105	30,367	22,743	25,543	27,502
Muskellunge	275	325	233	218	222
Bass Species	1	0	16	16	3
Largemouth Bass	97	179	114	118	158
Smallmouth Bass	28	42	70	19	35
Northern Pike	29	54	32	40	22
Rock Bass	2	6	2	10	4
Crappie	134	78	51	19	70
Sunfish (Bluegill, Pumpkinseed)	44	2	6	14	21
Yellow Perch	4	7	4	0	6
Sucker	27	16	22	4	13
Whitefish	2	1	3	2	4
Carp	0	2	1	0	2
Bowfin	1	1	0	1	1
Burbot	0	2	0	0	0
TOTAL:	26,749	31,082	23,297	26,004	28,063

Walleye Harvest

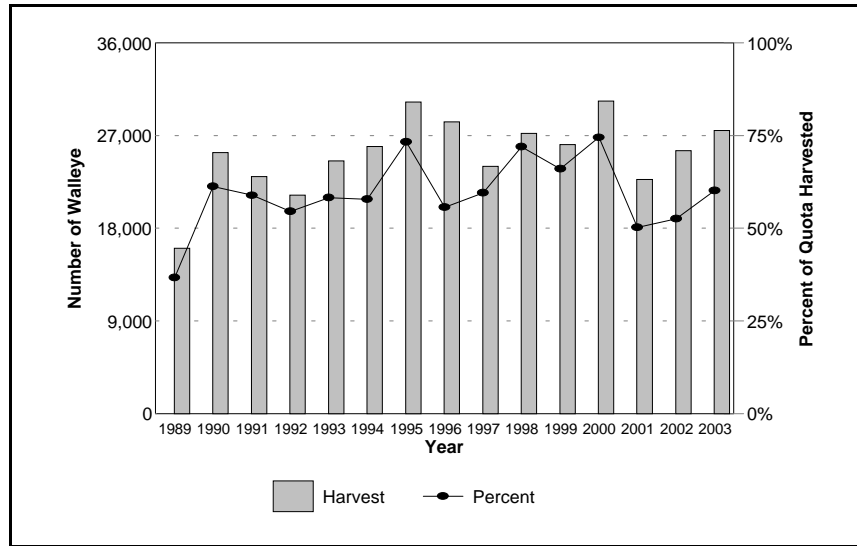
Tribal quotas (TQ) for walleye were selected for 281 lakes and totaled 45,776 walleye (Table 6). The percent of the "safe harvest" selected as tribal quotas for lakes in 2003 ranged from 0.0% (Big Crooked Lake, Escanaba Lake, and Kentuck Lake, Vilas County) to 94.92% (Virgin Lake, Oneida County). Two tribes selected the same lake in 7 instances and agreed on various inter-tribal allocation formulas to keep the TQ within the selected percentage. No lakes were selected by more than two Wisconsin tribes.

Tribal spearmen harvested a total of 27,502 walleye from 163 lakes (Table 6, Figure 6, Appendix B). Spearing also occurred in three other lakes (Keyes Lake, Florence County, Fourmile Lake, Oneida County, and Silver Lake, Barron County) but no walleye were harvested. The percent of the total walleye quota harvested was 60%. Values for the tribal walleye quota and percent of this quota harvested from 1989-2003 were as follows:

Table 6. Number of lakes with a tribal walleye quota, spearing effort, and harvest plus percent of overall quota harvested from 1989-2003.

Year	Tribal Walleye Quota	Number of Lakes with Quotas	Number of Walleye Harvested	Number of Lakes with Effort	Number of Lakes with Harvest	Percent of Quota Harvested
1989	43,801	254	16,054	102	98	37%
1990	41,373	178	25,348	119	117	61%
1991	39,090	204	23,018	159	147	59%
1992	38,863	222	21,188	153	146	55%
1993	42,112	220	24,532	134	130	58%
1994	44,821	218	25,922	147	145	58%
1995	41,283	222	30,249	153	149	73%
1996	50,897	248	28,327	167	157	56%
1997	40,301	245	24,002	155	152	60%
1998	37,821	225	27,218	153	152	72%
1999	39,586	204	26,105	155	151	66%
2000	40,762	253	30,367	173	171	74%
2001	45,321	275	22,743	149	147	50%
2002	48,628	283	25,543	159	153	53%
2003	45,776	281	27,502	166	163	60%

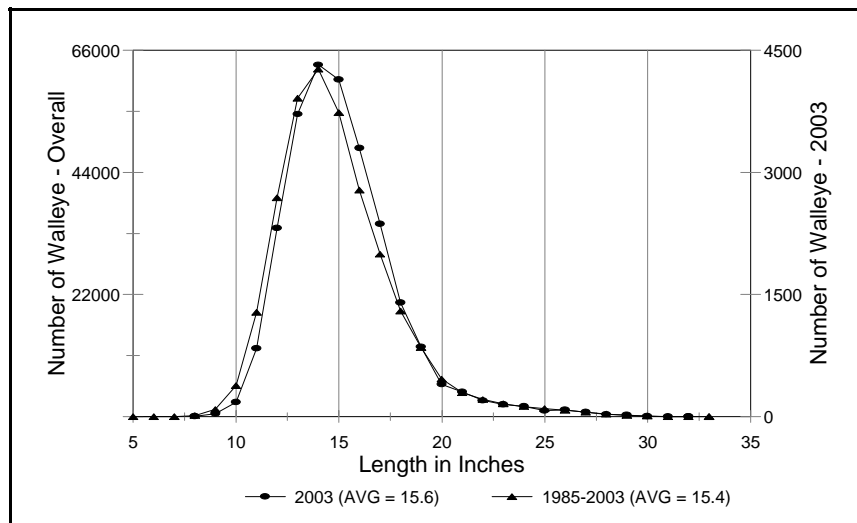
Figure 6. Number of walleye and percent of quota harvested during spring spearing seasons from 1989-2003.



Mean Length. A total of 24,924 walleye (91% of the catch) was measured in 2003 (Appendices C and D). The mean length was 15.6 inches, which is within the average length range from 1985-2002 (range: 15.0-16.3 inches). Size restrictions were identical during each of these nineteen years; all walleye were to be under 20 inches except that each permit authorized the harvest of one walleye of 20-24 inches and one of any size.

For the 19 spring spearing seasons combined, 84% of the walleye harvest has been measured (364,518 of 435,109 fish) (Figure 7; Appendix D). Average length for this 19-year sample was 15.4 inches. Also, 6.2% of the walleye (22,673 fish) were 20 inches or larger and 1.2% (4,301 fish) were 25 inches or larger.

Figure 7. Length frequency of walleye speared during 2003 and during the nineteen year period from 1985-2003.



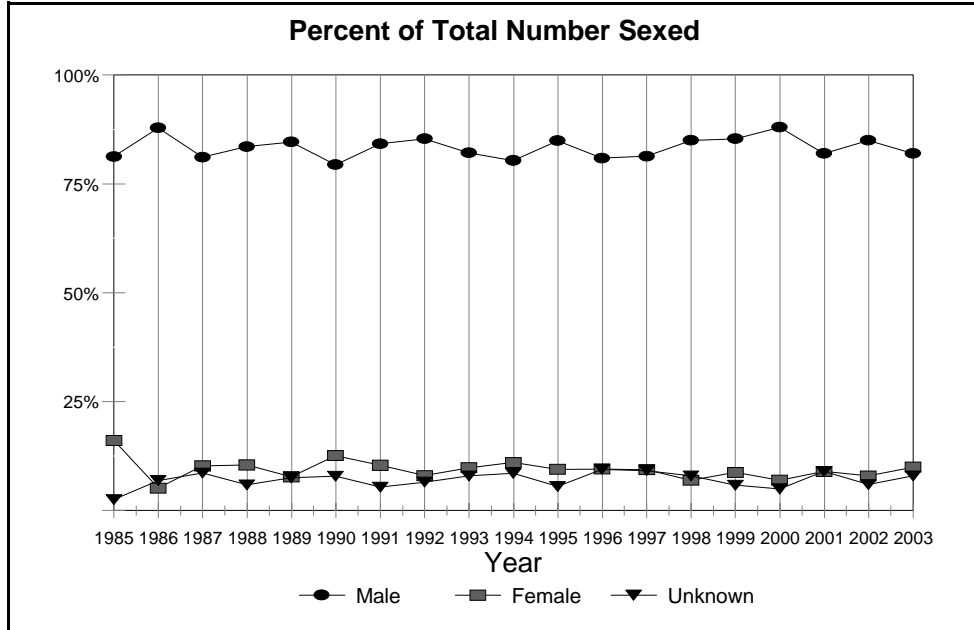
Sex Composition of Catch. The majority of walleye sexed in 2003 were male: 20,371 of 24,851 fish or 82% (Table 7). Females (2,474 fish) comprised 10% of the sexed harvest and those whose sex could not be determined (2,006 fish) made up 8%. Males made up 89% of sexable fish.

For the 19 spring spearing seasons combined, a total of 365,316 walleye have been sexed (Table 7, Figure 8). Of these, 83% were male, 9% were female, and 7% were of undetermined or unknown sex. Factors which influence the number of males and females speared were described by Kmiecik and Shively (1990). Some of the factors include bag limit and size restrictions, differences in behavior between the sexes during spawning season, and spearer preference.

Table 7. Number and percent of walleye that were sexed and were male, female, or unknown sex during spring spearing seasons from 1985-2003.

Year	Total Harvest	Male		Female		Unknown		Total Sexed:	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
1985	2,761	696	81%	138	16%	22	3%	856	31%
1986	6,940	6,013	88%	356	5%	473	7%	6,842	99%
1987	21,321	11,539	81%	1,456	10%	1,229	9%	14,224	67%
1988	25,969	16,193	84%	2,033	10%	1,142	6%	19,368	75%
1989	16,054	11,222	85%	1,030	8%	1,002	8%	13,254	83%
1990	25,348	14,693	79%	2,342	13%	1,465	8%	18,500	73%
1991	23,018	15,626	84%	1,926	10%	999	5%	18,551	81%
1992	21,188	15,563	85%	1,473	8%	1,190	7%	18,226	86%
1993	24,532	16,357	82%	1,958	10%	1,588	8%	19,903	81%
1994	25,922	17,467	80%	2,407	11%	1,852	9%	21,726	84%
1995	30,249	20,897	85%	2,339	10%	1,369	5%	24,605	81%
1996	28,327	18,562	81%	2,191	9.5%	2,181	9.5%	22,934	81%
1997	24,002	17,541	81%	2,031	9%	1,978	9%	21,550	90%
1998	27,218	20,604	85%	1,633	7%	1,990	8%	24,227	89%
1999	26,105	20,156	85%	2,076	9%	1,384	6%	23,616	90%
2000	30,367	24,422	88%	1,974	7%	1,477	5%	27,873	92%
2001	22,743	17,402	82%	2,005	9%	1,854	9%	21,261	93%
2002	25,543	19,624	86%	1,889	8%	1,436	6%	22,949	90%
2003	27,502	20,371	82%	2,474	10%	2,006	8%	24,851	90%
Total:	435,109	304,948	83%	33,731	9%	26,637	7%	365,316	84%

Figure 8. Sex composition of the walleye harvest during spring spearing seasons from 1985-2003.



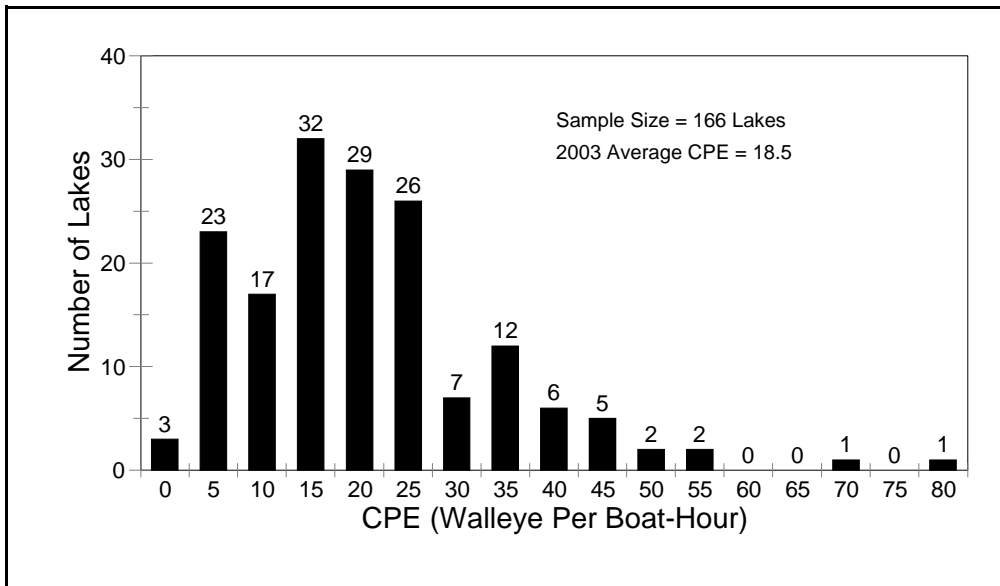
Catch per effort (CPE). In 2003 a total of 1,662 boat-hours of spearing was recorded in which 27,502 walleye were caught. Overall catch per effort (total harvest/total boat-hours) was 16.6 walleye per boat-hour (Appendix B).

Catch rates for the 166 lakes speared in 2003 ranged from 0.0 to 77.5 and averaged 18.5 per boat-hour (Appendix B, Table 8, Figure 9). Boat-hour effort was completely recorded for all lakes during spring 2003.

Table 8. Range and average catch rates in lakes speared during spring spearing season from 1987-2003.

Year	Number of Lakes	Range: CPE	Average: CPE
1987	66	0.0 - 46.4	12.2
1988	91	0.0 - 84.1	14.2
1989	98	0.0 - 63.9	18.5
1990	117	0.0 - 45.1	14.3
1991	159	0.0 - 46.5	11.3
1992	153	0.0 - 68.0	16.1
1993	134	0.0 - 123.5	15.2
1994	137	0.0 - 95.2	16.7
1995	153	0.0 - 91.1	19.5
1996	167	0.0 - 52.9	17.4
1997	155	0.0 - 62.7	16.8
1998	153	0.0 - 76.0	16.2
1999	155	0.0 - 74.0	18.0
2000	173	0.0 - 101.1	16.8
2001	149	0.0 - 95.4	17.5
2002	159	0.0 - 65.8	16.3
2003	166	0.0 - 77.5	18.5

Figure 9. Walleye CPE (number per boat-hour) by lake during the 2003 spring spearing season.



Muskellunge Harvest

A total of 222 muskellunge were taken from 65 lakes during spring 2003 (Figure 10, Appendix E). This harvest represented 14.6% of the combined tribal muskellunge quota of 1,522 fish selected for 203 lakes. Similar muskellunge quota statistics for the years 1990 to 2002 were as follows:

Table 9. Number of lakes with a tribal muskellunge quota, with harvest, and percent of overall quota harvested from 1990-2003.

Year	Tribal Muskellunge Quota	Number of Lakes with Quota	Number of Lakes with Harvest	Number Harvested	Percent of Quota Harvested
1990	1,148	117	57	303	26.4%
1991	1,240	155	54	185	14.9%
1992	1,240	155	52	165	13.3%
1993	1,223	134	49	188	15.5%
1994	1,326	158	49	244	18.4%
1995	1,364	153	59	299	21.9%
1996	1,555	171	68	319	20.5%
1997	1,489	169	66	333	22.3%
1998	1,381	166	60	271	19.6%
1999	1,431	169	63	275	19.2%
2000	1,410	169	59	325	23.1%
2001	1,580	198	61	233	14.7%
2002	1,555	206	52	218	14.0%
2003	1,522	203	65	222	14.6%

The number of muskellunge harvested from each of these 65 lakes ranged from 1 to 24 fish (Appendix E). Ten or more muskellunge were harvested from 4 lakes, 6-9 muskellunge were taken from 7 lakes, and 1-5 fish were speared in 54 lakes. No muskellunge were speared from the other 138 lakes.

Lengths of the 222 measured muskellunge averaged 38.9 inches and ranged from 25.7 to 53.0 inches (Appendix F, Figure 11). During the nineteen spring seasons combined, 4,144 of 4,193 speared muskellunge have been measured. Average length for this sample of fish was 37.3 inches (range: 13.5-53.0 inches).

Of the measured catch in 2003, 8.1% (18 of 222 muskellunge) were 32 inches and smaller, while 9.5% (21 fish) were 45 inches and larger. For the 4,144 muskellunge measured from 1985-2003, 723 fish or 17 % of the sample were less than or equal to 32 inches; 311 fish or 7.5 were 45 inches and larger (Appendix F).

The number of muskellunge per spearer averaged 0.56 for all tribes combined. In other words, 56 muskellunge were taken for every 100 spearers. From 1987-2002 the number per spearer ranged from 0.16 to 1.19. The combined tribal catch rate for muskellunge in 2003 was 0.13 muskellunge per boat-hour which was within the range of CPE's from 1987-2002 (0.07 to 0.19).

Figure 10. Number of muskellunge harvested during spring spearing seasons from 1985-2003.

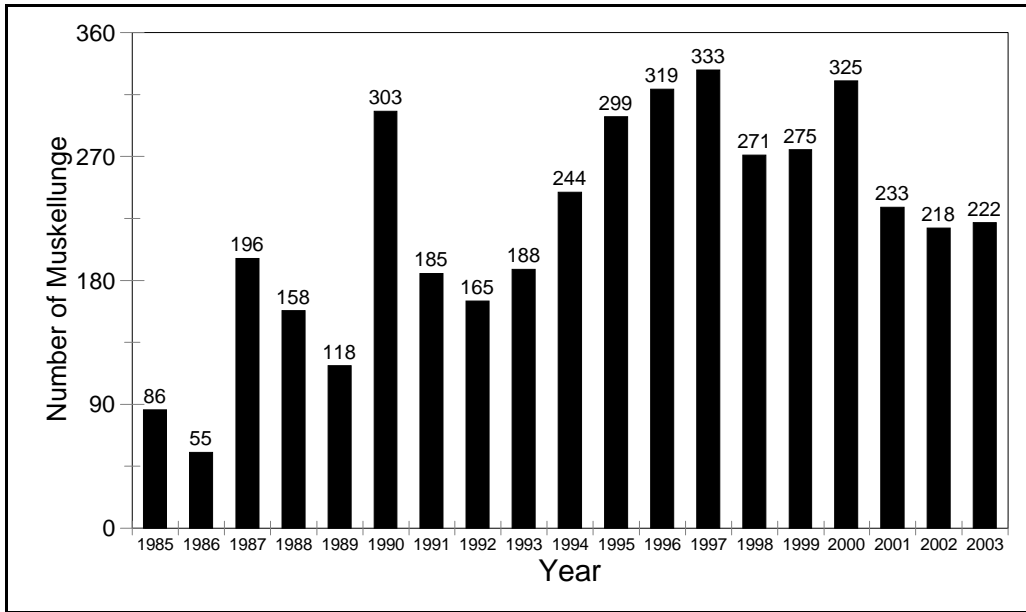
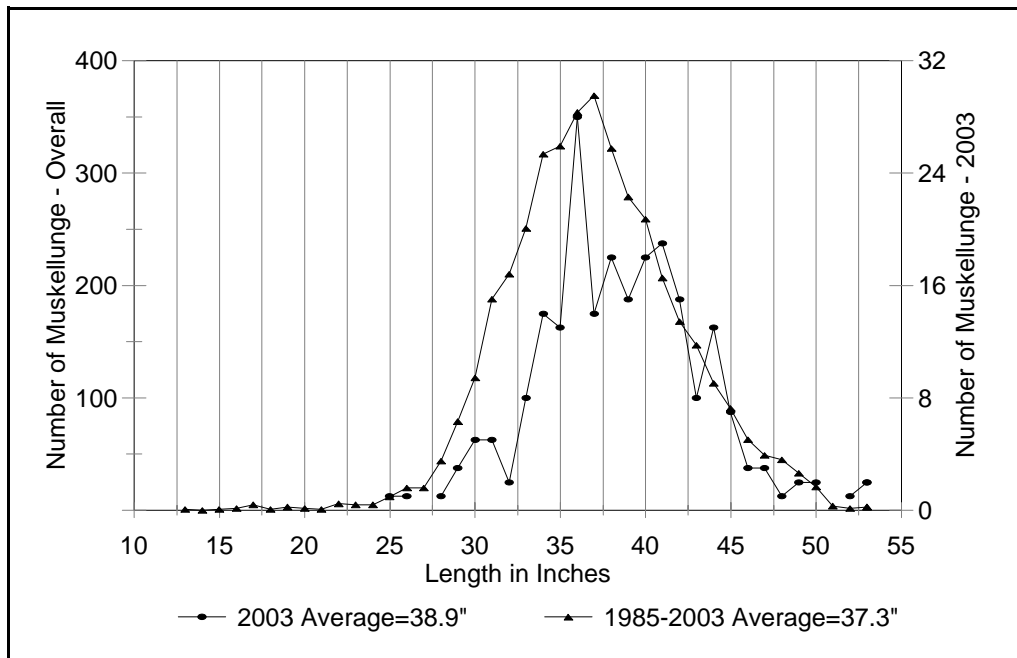


Figure 11. Length-frequency of muskellunge speared during spring 2003 and during the nineteen year period 1985-2003.



Bass Harvest

A total of 196 bass were harvested from 29 lakes in 10 counties (Appendix G). Species was recorded for all bass except 3. A total of 158 largemouth bass were taken from 17 lakes in 5 counties and averaged 15.2 inches. Ten or more largemouth were speared from 6 lakes, 6-9 from 2 lakes, and 5 or less were taken from 9 lakes. The number harvested per surface acre of water averaged 0.0128 largemouth bass (range: 0.0009-0.0472).

A total of 35 smallmouth bass were speared from 12 lakes in 7 counties. Average length was 16.1 inches. Five or fewer fish were taken from all but one lake. The number harvested per surface acre averaged 0.0021 smallmouth bass (range: 0.0002-0.0075).

Lengths of 193 measured bass ranged from 10.3-21.2 inches (Figure 13) and averaged 15.4 inches (Appendix H). Of the 3,257 bass speared during the nineteen spearing seasons combined, 3,087 have been measured. Average length for this sample was 15.4 inches (annual range: 15.0-15.9 inches).

For all tribes combined the number of bass per spearer (CPE) was 0.49. This CPE ranged from 0.29 to 0.66 from 1987-2002. The combined tribal catch rate for bass in 2003 was 0.12 bass per boat-hour which was within the range of CPE's from 1987-2002 (0.06 to 0.14).

Figure 12. Number of bass harvested during spring spearing seasons from 1985-2003.

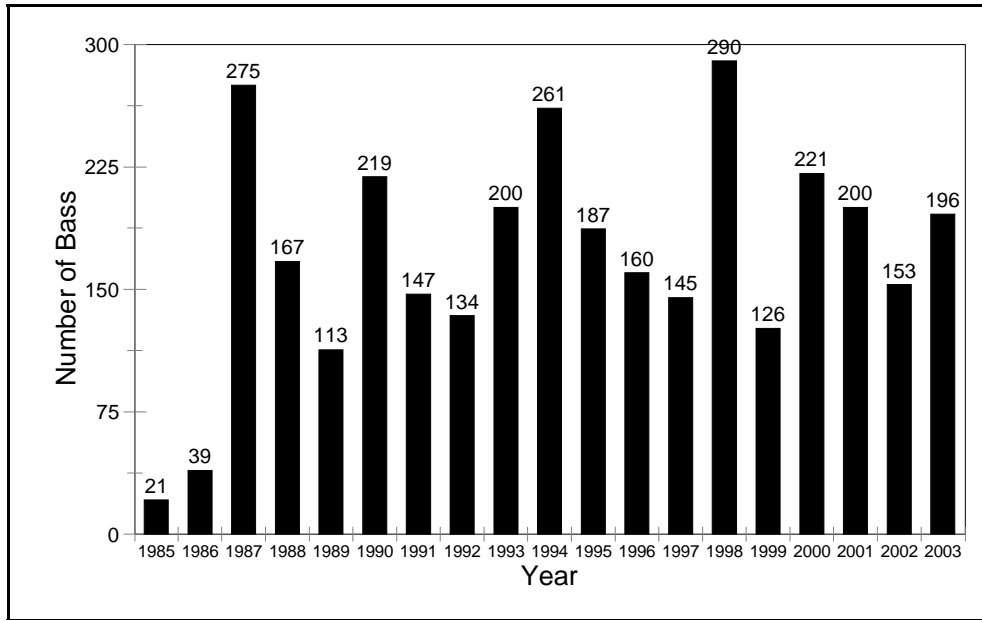
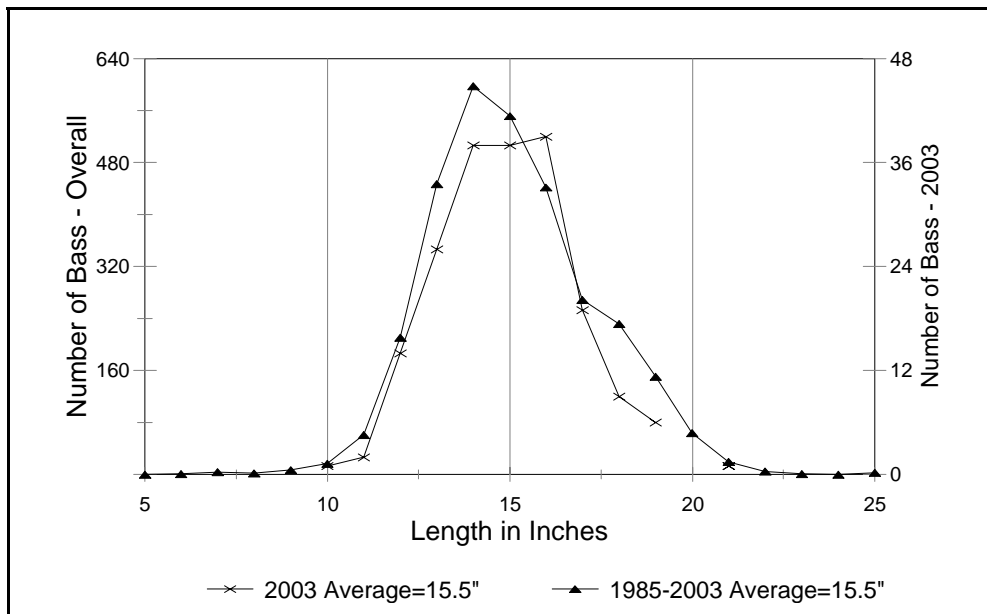


Figure 13. Length-frequency for bass taken during 2003 and during the nineteen year period 1985-2003.



Northern Pike Harvest

A total of 22 northern pike were harvested from 13 lakes in 7 counties (Appendix G). Five or fewer fish were taken from all lakes. Catch per surface acre of water averaged 0.0015 (range: 0.0001-0.0079).

Lengths of 21 measured northern pike ranged from 22.4 to 40.1 inches and averaged 30.4 inches (Appendix I, Figure 15). During the nineteen spring seasons combined a total of 627 northern pike have been speared (Appendix I). Of these, 556 were measured and length averaged 27.0 inches. Harvest of pike continues to be incidental and an insignificant component of the fishery.

Figure 14. Number of northern pike harvested during spring spearing seasons from 1985-2003.

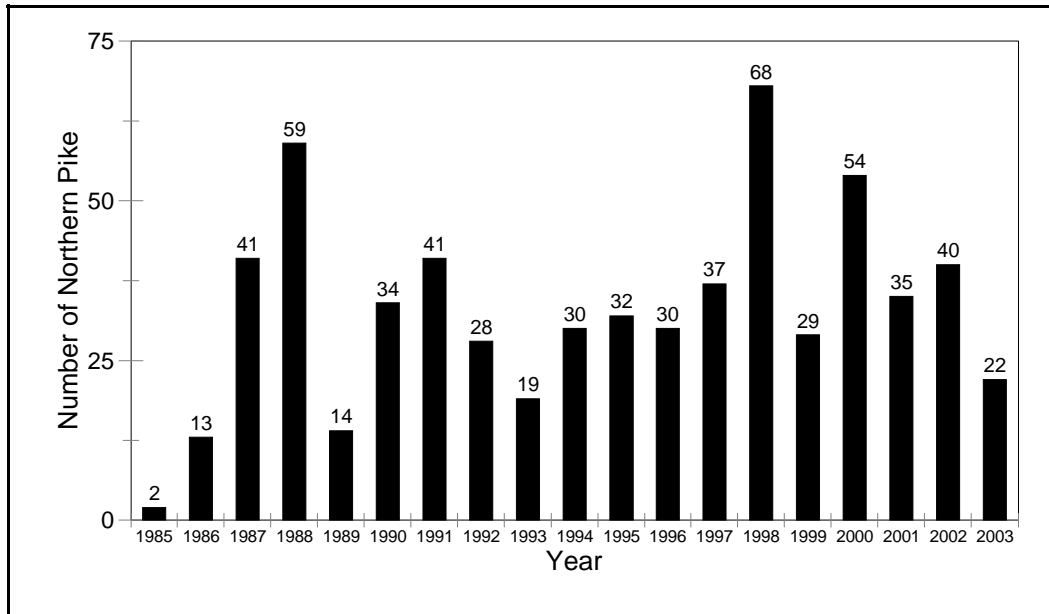
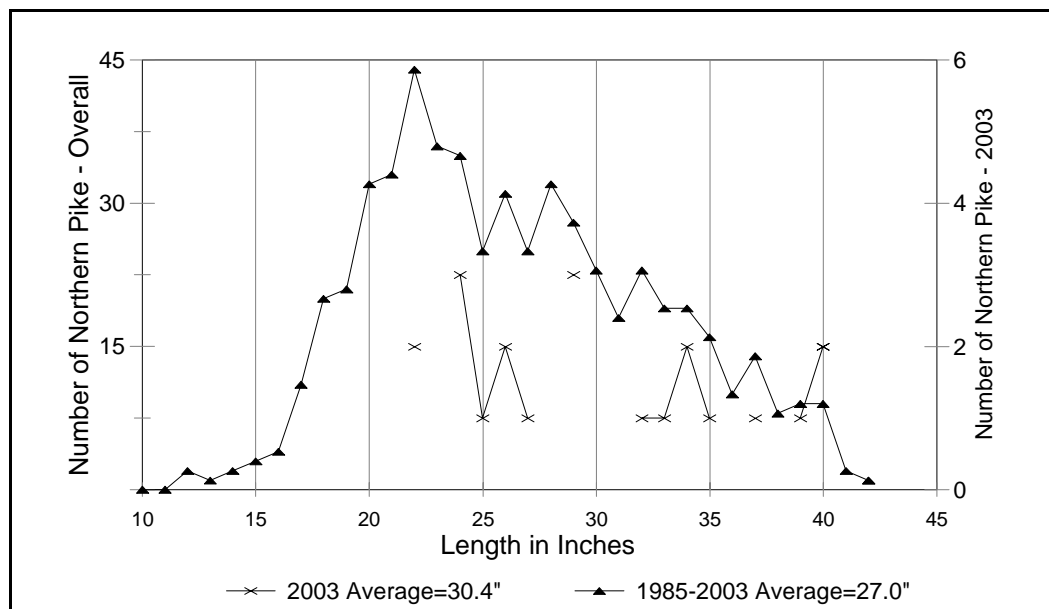


Figure 15. Length frequency of northern pike speared during 2003 and during the nineteen year period from 1985-2003.



ACKNOWLEDGMENTS

The author extends a "Meegwitch" to the following workers who assisted with monitoring the fishery (either as creel clerk or seasonal warden) or who issued permits and helped to update and compile harvest data each day:

Bad River (BRV) - Milton Barbano, Luc Benoit, Rebecca Mullins, Frank Connors, Donald Kolodziejski, Lois Kolodziejski, and Gregory Smart.

Lac Courte Oreilles (LCO) - Ella Greene, Eric Haskins, Denise Johnson, Monica Kessinich, Philomene Mustache, Pdraic Nugent, Lona Paull, Leslie Ramczyk, Cynthia St. John, Michelle Taylor, and Jose Valentin.

Lac du Flambeau (LDF) - Preston Allen, Cynthia Carufel, Garrett Christensen, Carla Clements, George Clements, Mark Doud, Michelle LaBarge, Anita Koser, Gerald Mann, Lyle Mann, Scott Poupart, Thomas Poupart, William Snow, Paula St. Germaine, Cheyenne White, Frank White Jr., George White, Ryan White, Marie Wolfe, Christine Zortman, and Raymond Zortman.

Lac Vieux Desert (LVD) - Rebecca Antone, Lydia Brunk, Gerald Buch, John Buch, Josh Buch, David Carnahan, Randall Kashish, Samuel Klingman, Alina McGeshick, Misaabe McGeshick, Alan Shively, Joel Valentine, and Robert Vanzile.

Mole Lake (MLK) - William Bates, Tonya Burnett, Christine Carnahan, Shannon Hansen, Troy Hansen, Barron Maki, Brenda McGeshick, Eugene Okrasinski, Frank Olds, Joseph Phalen, Shanda Poler, Wade Saturnus, Timothy Sheldon, and James Smith.

Red Cliff (RCF) - Ryan Bonney, Brennan Deragon, Raymond Curran, Guy Defoe, Jeffery Hood, Thomas Jeffords, Michael LaGrew, Vicki Leask, and Ronald Nordin.

St. Croix (STC) - Patti Carpenter, Donald Cline, Peter Dunkley, Jack Holmes, Ernest Honts, Michael Holmes, Larry Livingston, Bonnie Moser, Peter Mulroy, Roger Mulroy, June Pardun, Dawn Seagraves, Anthony Stream, and Ardyth Stream.

The efforts of the following GLIFWC wardens in setting up nightly clerk/warden teams and in kindly agreeing to supervise creel clerks is appreciated: Vern Stone and James Stone (BRV), Kenneth Rusk (LCO), Frank White and Christina Dzwonkowski (LDF), Duane Parish (LVD), John Mulroy and Roger McGeshick (MLK), Mark Bresette and Michael Soulier (RCF), and Chris Kessinich (STC).

The patience and humor of tribal members during the nightly counting and measuring of fish continues to be recognized and appreciated.

Thanks also go to Annie Thannum, Kim Campy, and Ed Kolodziejski for their efforts in compiling nightly harvest statistics, in providing these data to tribal and WDNR representatives, and in updating each day the list of lakes selected for harvest, along with the adjusted quota, the bag limits, and the number of permits available for each lake. Finally, I would like to thank Neil Kmiecik, Rick Madsen, Joe Dan Rose, and Michelle Wheeler for editing this report.

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LIST OF APPENDICES

APPENDIX	PAGE
A	Number of tribal members that speared one or more nights on lakes selected by six Wisconsin Chippewa bands during the 2003 spring spear fishery 25
B	Number of walleye harvested nightly on lakes speared by six Wisconsin Chippewa bands during spring 2003. Also, balance of quota, number of boat-hours and catch per effort (CPE = walleye per boat-hour) per lake 26
C	Total number of walleye measured by per inch group and sexed during spring spearing 2003. Data arranged alphabetically by tribe, county, and lake 36
D	Number of walleye per inch group taken during spring spearing seasons from 1985-2003 43
E	Number of muskellunge harvested nightly on lakes speared by six Wisconsin Chippewa bands during spring 2003. Also average length and harvest per acre 44
F	Number of muskellunge per inch group taken during spring spearing seasons from 1985-2003 49
G	Number, average length, and harvest per acre of bass (largemouth and smallmouth), and northern pike from various lakes during spring spearing in 2003 50
H	Number of bass (largemouth and smallmouth combined) taken during spring spearing seasons from 1985-2003 51
I	Number of northern pike per inch group taken during spring spearing seasons from 1985-2003 52

Appendix A. Number of tribal members that speared one or more nights on lakes selected by six Wisconsin Chippewa bands during the 2003 spring spear fishery.

Number of Nights	BRV	LCO	LDF	MLK ¹	RCF	STC ²	Total:	Percent of Total:	Cumulative Percent:
1	21	14	57	17	22	13	144	36.1%	36.1%
2	3	6	25	13	10	10	67	16.8%	52.9%
3	2	10	23	5	5	8	53	13.3%	66.2%
4	1	6	16	8	6	6	43	10.8%	76.9%
5	0	5	6	11	1	1	24	6.0%	83.0%
6	2	5	12	4	0	4	27	6.8%	89.7%
7	0	3	3	1	1	0	8	2.0%	91.7%
8	0	4	6	2	1	2	15	3.8%	95.5%
9	0	0	0	0	0	2	2	0.5%	96.0%
10	0	0	4	0	0	0	4	1.0%	97.0%
11	1	0	0	1	0	2	4	1.0%	98.0%
12	0	0	0	0	0	0	0	0.0%	98.0%
13	0	0	1	0	0	1	2	0.5%	98.5%
14	0	0	0	0	0	3	3	0.8%	99.2%
15	0	0	1	0	0	1	2	0.5%	99.7%
16	0	0	0	0	0	0	0	0.0%	99.7%
17	0	0	0	0	0	1	1	0.3%	100.0%
18	0	0	0	0	0	0	0	0.0%	100.0%
19	0	0	0	0	0	0	0	0.0%	100.0%
20	0	0	0	0	0	0	0	0.0%	100.0%
Total:	30	53	154	62	46	54	399	100%	100%

¹ Includes 1 member from Red Cliff.

² Includes 1 member from Bad River and 2 members from Mille Lacs.

Appendix B. Number of walleye harvested nightly on lakes selected by six Wisconsin Chippewa bands during spring 2003. Also, balance of quota, number of boat-hours, catch per effort (CPE - walleye per boat-hour), number of spearer-nights, number of interviews with effort, and number of interviews without effort.

County	Bad River Lake	Area (acres)	Walleye Safe Harvest	2003 Tribal Quota	April																				May										Total Harvest	Quota Balance	Boat- Hour	CPE		
					18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10													
ASHLAND	BEAR L	204	88	52																													0	52		*				
ASHLAND	GORDON L	142	63	34																												0	34		*					
BAYFIELD	L OWEN	1323	258	99																												99	0	5.3	18.7					
BAYFIELD	NAMEKAGON L	3227	2015	776								99	190	354	115																	758	18	37.8	20.1					
BAYFIELD	SISKIWIT L	330	226	135																												0	135		*					
BURNETT	CLAM R FL	359	151	90																												0	90		*					
CHIPPEWA	HOLCOMBE FL	3890	1416	297																												0	297		*					
CHIPPEWA	L WISSOTA	6300	2220	1220	13																											13	1207	1.5	8.7					
CHIPPEWA	LONG L	1052	416	249	100	149																										249	0	7.3	34.1					
DOUGLAS	AMNICON L	426	177	106																												0	106		*					
DOUGLAS	BOND L	292	13	7																												0	7		*					
DOUGLAS	DOWLING L	154	68	40																												0	40		*					
DOUGLAS	L MINNESUING	432	180	107																												0	107		*					
DOUGLAS	WHITEFISH L	832	102	61		11				50																						61	0	5.1	12.0					
DUNN	TAINTER L	1752	672	403																												0	403		*					
IRON	ECHO L	220	95	56																												5	51	2.9	1.7					
IRON	FISHER L	452	57	34																												0	34		*					
IRON	L OF THE FALLS	338	143	85																												0	85		*					
IRON	LONG L	396	80	47																												0	47		*					
IRON	PINE L	312	190	113																												1	112	1.0	1.0					
IRON	SPIDER L	352	148	88																												0	88		*					
IRON	TRUDE L	781	314	188																													133	22	7.1	23.4				
IRON	TURTLE-FLAMBEAU FL	13545	4520	900																													100	**	78	33	166	22	7.1	23.4
PRICE	DUROY L	379	159	95										**																		0	95		*					
PRICE	LONG L	418	174	104										**																		0	104		*					
PRICE	SOLBERG L	859	344	206										**																		0	206		*					
RUSK	CHAIN L	468	194	116		**								40																		40	76	2.3	17.4					
RUSK	DAIRYLAND RESERVOIR	1745	669	401																													0	401		*				
RUSK	ISLAND L	526	217	130		34								67																		101	29	5.9	17.1					
SAWYER	CONNORS L	429	179	107										105																		105	2	6.1	17.2					
SAWYER	NELSON L	2503	588	226										38																		38	188	3.9	9.7					
SAWYER	TEAL L	1049	415	248		11				83	154																					248	0	15.9	15.6					
TAYLOR	RIB L	320	135	37	**	**	**	**	**																							0	37		*					
VILAS	ANNABELLE L	213	116	69																												0	69		*					

Appendix B. Number of walleye harvested nightly on lakes selected by six Wisconsin Chippewa bands during spring 2003. Also, balance of quota, number of boat-hours, catch per effort (CPE - walleye per boat-hour), number of spearer-nights, number of interviews with effort, and number of interviews without effort.

County	Bad River Lake	Area (acres)	Walleye Safe Harvest	2003 Tribal Quota	April																				May										Total Harvest	Quota Balance	Boat- Hour	CPE
					18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10											
VILAS	ANNABELLE L	213	116	69																														0	69		*	
VILAS	BLACK OAK L	584	71	42																													29	29	13	6.0	4.8	
VILAS	CRAB L	949	319	191																														0	191		*	
VILAS	FOREST L	466	193	115															**	60	39													99	16	5.6	17.7	
VILAS	HARRIS L	507	209	125																125														125	0	7.5	16.7	
VILAS	HIGH L	734	297	178																														178	0	5.8	30.7	
VILAS	LOST CANOE L	249	107	64																														0	64		*	
VILAS	MAMIE L	400	161	96																														96	0	4.3	22.3	
VILAS	N TURTLE L	369	155	92																														0	92		*	
VILAS	PRESQUE ISLE L CHAIN	1571	627	376																200														376	0	13.3	28.3	
VILAS	S TURTLE L	454	188	112																														0	112		*	
VILAS	TENDERFOOT L	437	159	95																													**	0	95		*	
Number of lakes:		45			3	6	1	1	3	1	1	7	4	2	1	1	0	3	3	3	1	0	0	2	0	3	2											
Area in acres:		52,740																																				
Number of walleye:			19,288	8,412	113	205	0	0	133	154	99	402	717	214	100	176	0	96	138	272	0	0	0	78	0	39	29	2,965	5,447									
Number of spearer-nights:					6	10	6	0	3	6	2	21	25	7	2	6	0	4	4	10	0	0	0	2	0	6	2	122										
Number of interviews with effort:					3	4	0	0	3	5	1	8	11	5	2	3	0	2	2	5	0	0	0	1	0	3	1	59										
Number of interviews without effort:					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
Number of boat-hours:					4.2	13.3	0.0	0.0	7.3	6.9	3.3	23.0	37.1	11.3	3.0	4.5	0.0	4.3	5.7	12.1	0.0	0.0	0.0	5.8	0.0	5.6	6.0									152.4		
Catch-per-effort:					26.9	15.4	0.0	0.0	18.2	22.3	30.0	17.5	19.3	18.9	33.3	39.1	0.0	22.3	24.2	22.5	0.0	0.0	0.0	13.4	0.0	7.0	4.8										19.5	

* Lakes not speared during spring 2003.

** Lakes open for spearing but no effort.

Appendix B. Number of walleye harvested nightly on lakes selected by six Wisconsin Chippewa bands during spring 2003. Also, balance of quota, number of boat-hours, catch per effort (CPE - walleye per boat-hour), number of spearer-nights, number of interviews with effort, and number of interviews without effort.

County	Lac Courte Oreilles Lake	Area (acres)	Walleye Safe Harvest	2003 Tribal Quota	April																May					Total Harvest	Quota Balance	Boat- Hour	CPE
					16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3							
RUSK	POTATO L	534	66	56	**																			0	56		*		
RUSK	PULASKI L	126	56	47	47																			47	0	1.2	39.2		
RUSK	SAND L	262	31	23	8																			8	15	1.8	4.4		
SAWYER	BARBER L	238	32	27																				0	27		*		
SAWYER	DURPHEE L	193	84	46		**	0		46															46	0	4.1	11.2		
SAWYER	GRINDSTONE L	3111	563	478													473							473	5	15.1	31.3		
SAWYER	L CHETAC	1920	732	439										180	150	60	49							439	0	14.6	30.1		
SAWYER	L CHIPPEWA	15300	3365	1850		**	4	2	197	347	202	330	320	137	**	**	**	**					15	1554	296	92.9	16.7		
SAWYER	L OF THE PINES	273	116	98																				0	98		*		
SAWYER	LAC COURTE OREILLES	5039	516	397													113	191	**					304	93	23.7	12.8		
SAWYER	LITTLE ROUND L	229	79	67																				0	67		*		
SAWYER	LOST LAND L	1304	509	432						38	**	**	37	4	**									79	353	7.8	10.1		
SAWYER	ROUND L	3054	1130	677																		421	48	469	208	43.0	10.9		
SAWYER	SAND L	928	107	58																				0	58		*		
SAWYER	SISSABAGAMA L	719	291	174					93	81														174	0	13.2	13.2		
SAWYER	SMITH L	323	18	13							**	2												2	11	1.8	1.1		
SAWYER	SPIDER L	1454	364	280						92	188													280	0	11.3	24.8		
SAWYER	TIGER CAT FL	819	24	20								**	**	**	**									0	20		*		
SAWYER	WHITEFISH L	786	152	117														30	87					117	0	11.6	10.1		
SAWYER	WINDFALL L	102	46	39			39																	39	0	2.8	13.9		
WASHBURN	BIRCH L	368	47	39			**																	0	39		*		
WASHBURN	LONG L	3290	521	156																				0	156		*		
WASHBURN	STONE L	523	215	182																				0	182		*		
Number of lakes:		23			3	0	3	3	1	3	4	4	4	4	4	4	4	3	3	1	1	1							
Area in acres:		40,895																											
Number of walleye:			9,064	5,715	55	0	39	4	2	336	558	390	332	537	291	60	635	221	87	421	48	15	4,031	1,684					
Number of spearer-nights:					6	0	4	7	6	22	33	18	14	24	16	4	33	17	6	19	3	2	234						
Number of interviews with effort:					3	0	4	3	2	10	15	8	6	10	8	2	13	7	2	8	1	1	103						
Number of interviews without effort:					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
Number of boat-hours:					3.0	0.0	2.8	3.9	3.0	26.2	30.3	17.8	15.5	23.6	15.0	2.0	25.9	19.8	8.5	39.2	3.8	6.8				244.9			
Catch-per-effort:					18.3	0.0	13.9	1.0	0.7	12.8	18.4	21.9	21.4	22.8	19.4	30.0	24.5	11.2	10.2	10.7	12.6	2.2						16.5	

* Lakes not speared during spring 2003.

** Lakes open for spearing but no effort.

Appendix B. Number of walleye harvested nightly on lakes selected by six Wisconsin Chippewa bands during spring 2003. Also, balance of quota, number of boat-hours, catch per effort (CPE - walleye per boat-hour), number of spearer-nights, number of interviews with effort, and number of interviews without effort.

County	Lac du Flambeau Lake	Area (acres)	Walleye Safe Harvest	2003 Tribal Quota	April														May														Total Harvest	Quota Balance	Boat- Hour	CPE
					18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	13	14											
IRON	GILE FL	3384	1244	684						74	**	85	**	**	**					117	15	**	**	**	**				291	393	19.1	15.236				
IRON	MERCER L	184	25	13																									0	13		*				
IRON	TURTLE-FLAMBEAU FL	13545	4520	1585									996	359	95	133												1583	2	72.0	22.0					
LINCOLN	L MOHAWKSIN	1910	728	400	**	**	**	**	163	**	**																	163	237	5.5	29.6					
LINCOLN	RICE R FL CHAIN	3764	1568	627		185	281	93	67																			626	1	32.3	19.4					
MARATHO	BIG EAU PLEINE RESERVOIR	6830	1915	1053	**	**	**	**	**	**																		0	1053		*					
ONEIDA	BEARSKIN L	400	366	146						142																		142	4	4.0	35.5					
ONEIDA	BLUE L	456	189	103																								0	103		*					
ONEIDA	BOOM L	437	182	100																	**							0	100		*					
ONEIDA	BOOTH L	207	28	15					15																			15	0	0.5	30.0					
ONEIDA	BUCKSKIN L	634	181	99		95			4																			99	0	5.9	16.8					
ONEIDA	CARROL L	335	43	23							23																	23	0	2.2	10.5					
ONEIDA	CLEAR L	846	339	186									182										**	**	**			182	4	4.5	40.4					
ONEIDA	DAM L	744	300	164							119										**							119	45	5.5	21.6					
ONEIDA	GEORGE L	435	181	99				**	92																			92	7	3.0	30.7					
ONEIDA	GILMORE L	301	39	21																								0	21		*					
ONEIDA	HASBROOK L	302	121	48								48																48	0	1.5	32.0					
ONEIDA	ISLAND L	295	125	68										**			**	57										57	11	4.8	11.9					
ONEIDA	JULIA L (THREE LAKES)	401	168	92													**										25	67	3.0	8.3						
ONEIDA	KATHERINE L	590	395	157				157																				157	0	5.8	27.1					
ONEIDA	KAWAGUESAGA L	670	272	149									149										**	**	**			149	0	6.6	22.6					
ONEIDA	L THOMPSON	382	49	26				**	**																			0	26		*					
ONEIDA	LITTLE FORK L	354	149	81										62			**	**	**									62	19	2.8	22.1					
ONEIDA	MANSON L	236	101	55				55																				55	0	3.5	15.7					
ONEIDA	MEDICINE L	372	156	85										12			**	**	50									62	23	5.4	11.5					
ONEIDA	MINOCQUA L	1360	530	291								287										**	**	2				289	2	12.3	23.5					
ONEIDA	MOEN L	460	191	105				42	61																			103	2	5.3	19.4					
ONEIDA	MUSKELLUNGE L	284	121	66									**	62														62	4	2.5	24.8					
ONEIDA	N NOKOMIS L	476	59	32						**																		0	32		*					
ONEIDA	PICKEREL L	736	87	47									**															0	47		*					
ONEIDA	RAINBOW FL	2035	773	425									24	**		92	129	**	4	**	**	**	**					249	176	18.9	13.2					
ONEIDA	SAND L	540	222	122						100									5									105	17	6.0	17.5					
ONEIDA	SQUIRREL L	1317	956	382				275	103										0	**	**	4	***				382	0	20.1	19.0						
ONEIDA	TOMAHAWK L CHAIN	3552	1062	424								392							17		**	**	13	0	**		422	2	23.5	18.0						
ONEIDA	TWO SISTERS L	719	332	132								132																132	0	2.4	55.0					
ONEIDA	WILLOW FL	5135	1835	1009								205	308		**	**	126	**	0	0	**	**					639	370	29.3	21.8						
PRICE	AMIK L	224	97	53																								0	53		*					
PRICE	BUTTERNUT L	1006	399	219						117	93																	210	9	4.2	50.0					
PRICE	LAC SAULT DORE	561	230	126		**	**	8	**																			8	118	1.8	4.4					
PRICE	PIKE L	806	324	178						87	**	47									**	**	**					134	44	7.3	18.4					
PRICE	ROUND L	726	293	161						160																		160	1	3.9	41.0					
PRICE	TURNER L	149	66	36						**																		0	36		*					
TAYLOR	RIB L	320	135	37	**	**	**	**	**																			0	37		*					
VILAS	ALDER L	274	117	64											**	64	64											128	-64	3.5	36.6					
VILAS	ANVIL L	380	159	87									86															86	1	2.0	43.0					
VILAS	BALLARD L	505	547	218												218												218	0	4.4	49.5					
VILAS	BIG ARBOR VITAE L	1090	852	340								219	120															339	1	10.1	33.6					
VILAS	BIG CROOKED L	682	136	0																								0	0		*					
VILAS	BIG L (BOULDER JCT)	835	276	110													46	62										108	2	8.4	12.9					
VILAS	BIG L (MI BORDER)	771	247	135														135										135	0	3.0	45.0					
VILAS	BIG MUSKELLUNGE L	930	371	204													190											199	5	9.0	22.1					

Appendix B. Number of walleye harvested nightly on lakes selected by six Wisconsin Chippewa bands during spring 2003. Also, balance of quota, number of boat-hours, catch per effort (CPE - walleye per boat-hour), number of spearer-nights, number of interviews with effort, and number of interviews without effort.

County	Lac du Flambeau Lake	Area (acres)	Walleye Safe Harvest	2003 Tribal Quota	April														May														Total Harvest	Quota Balance	Boat- Hour	CPE	
					18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	13	14												
VILAS	BIG PORTAGE L	638	260	142												**	142														142	0	6.5	21.8			
VILAS	BIG ST GERMAIN L	1617	623	342											232		109									0				341	1	19.3	17.7				
VILAS	BIRCH L	528	217	119																					13				13	106	2.0	6.5					
VILAS	BOULDER L	524	216	118																									116	2	3.5	33.1					
VILAS	CLEAR L	555	228	125											119														119	6	2.3	51.7					
VILAS	CRANBERRY L	956	380	208												**													173	35	6.0	28.8					
VILAS	EAGLE L	572	234	128																									104	24	5.8	17.9					
VILAS	ESCANABA L	293	133	0																									0	0		*					
VILAS	FISHTRAP L	329	139	76																							47		47	29	2.6	18.1					
VILAS	HORSEHEAD L	234	101	55																							40		40	15	3.0	13.3					
VILAS	ISLAND L	1023	405	222													221												221	1	9.3	23.8					
VILAS	JAG L	158	69	37								3																	3	34	1.8	1.7					
VILAS	KENTUCK L	957	311	0																									0	0		*					
VILAS	L LAURA	599	245	134													134												134	0	4.3	31.2					
VILAS	LITTLE ARBOR VITAE L	534	220	120								120																	120	0	2.8	42.9					
VILAS	LITTLE CROOKED L	153	67	36																									0	36		*					
VILAS	LITTLE JOHN L	166	23	12																									0	12		*					
VILAS	LITTLE ST GERMAIN L	980	113	62																					13		7		20	42	6.4	3.1					
VILAS	LITTLE STAR L	244	105	57												**	57												114	-57	6.1	18.7					
VILAS	LITTLE TROUT L	978	117	64																									0	64		*					
VILAS	LOWER BUCKATABON L	352	45	24																			**						0	24		*					
VILAS	LYNX L	339	143	78																					47				47	31	2.5	18.8					
VILAS	MANITOWISH L	506	209	114												**	56									**	56		112	2	8.7	12.9					
VILAS	OXBOW L	511	211	116													66										43		109	7	8.7	12.5					
VILAS	PALMER L	635	77	42																							9		9	33	2.0	4.5					
VILAS	PAPOOSE L	428	178	97										95															95	2	4.4	21.6					
VILAS	PLUM L	1033	409	224										152															224	0	7.6	29.5					
VILAS	RAZORBACK L	362	152	83																									83	0	4.4	18.9					
VILAS	REST L	608	248	136																									136	0	3.7	36.8					
VILAS	SNIFE L	239	103	56																									56	0	2.5	22.4					
VILAS	SPARKLING L	154	22	12																									0	12		*					
VILAS	SPIDER L	272	116	63												**	62												62	1	0.8	77.5					
VILAS	SQUAW L	785	274	109			81	**		**	20																		101	8	4.5	22.4					
VILAS	STAR L	1206	473	260																									253	7	7.5	33.7					
VILAS	TROUT L	3816	818	327																						322		5		327	0	13.7	23.9				
VILAS	UPPER BUCKATABON L	494	61	33																								**	0	33		*					
VILAS	WHITE BIRCH L	112	125	49																									0	49		*					
VILAS	WHITE SAND L	728	87	47																									47	0	2.3	20.4					
VILAS	WILD RICE L	379	127	69																									56	13	2.5	22.4					
VILAS	WILDCAT L	305	40	21																										0	21		*				
Number of lakes:		91			3	5	6	8	10	10	13	10	10	12	14	13	14	14	14	12	11	11	11	10	2	2											
Area in acres:		89,189																																			
Number of walleye:			31,925	15,099	0	280	362	305	299	644	732	1581	1792	1213	1104	931	1322	613	230	46	9	0	19	0	0	0	11,482	3,617									
Number of spearer-nights:					0	18	19	11	16	27	35	69	64	43	37	42	57	24	22	15	5	0	8	3	2	517											
Number of interviews with effort:					0	6	7	4	8	12	14	28	22	15	14	15	23	10	9	6	2	0	3	1	1	200											
Number of interviews without effort:					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
Number of boat-hours:					0.0	14.8	21.6	12.8	13.2	21.6	29.2	53.1	75.2	38.9	36.7	47.7	58.2	28.7	24.7	15.0	5.3	0.0	11.3	3.0	3.0						523.3						
Catch-per-effort:					0.0	18.9	16.8	23.8	22.7	29.8	25.1	29.8	23.8	31.2	30.1	19.5	22.7	21.4	9.3	3.1	1.7	0.0	1.7	0.0	0.0										21.9		

* Lakes not speared during spring 2003.
 ** Lakes open for spearing but no effort.
 *** Lakes opened for muskellunge harvest only.

Appendix B. Number of walleye harvested nightly on lakes selected by six Wisconsin Chippewa bands during spring 2003. Also, balance of quota, number of boat-hours, catch per effort (CPE - walleye per boat-hour), number of spearer-nights, number of interviews with effort, and number of interviews without effort.

County	Sokaogon (Mole Lake) Lake	Area (acres)	Walleye Safe Harvest	2003 Tribal Quota	May																				Total Harvest	Quota Balance	Boat- Hour	CPE	
					April																								
					20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5									
FLORENCE	EMILY L	191	54	41																					0	41		*	
FLORENCE	FAY L	247	12	10														**	9							9	1	2.7	3.3
FLORENCE	HALSEY L	512	18	15														2								2	13	1.5	1.3
FLORENCE	KEYES L	202	88	74														**		0						0	74	0.9	0.0
FLORENCE	PATTEN L	255	109	92														**								0	92		*
FLORENCE	PINE R FL	127	56	47																						0	47		*
FOREST	ARBUTUS L	161	22	18																						0	18		*
FOREST	BIRCH L	468	194	164																						0	164		*
FOREST	BUTTERNUT L	1292	258	154					95	27	32															154	0	14.0	11.0
FOREST	CRANE L	337	44	37																						0	37		*
FOREST	FRANKLIN L	892	65	50					43																	43	7	3.4	12.6
FOREST	GROUND HEMLOCK L	88	13	11																						0	11		*
FOREST	HOWELL L	177	9	7																						0	7		*
FOREST	JUNGLE L	182	344	264					155	109																264	0	8.5	31.1
FOREST	KING L	33	16	13																						0	13		*
FOREST	L LUCERNE	1026	201	120							14	69														120	0	20.1	6.0
FOREST	L METONGA	1991	369	221							145	38														206	15	10.4	19.8
FOREST	LILY L	211	149	89					89																	89	0	3.0	29.7
FOREST	MOLE L	73	5	4																						0	4		*
FOREST	PINE L	1670	180	152				**	**	**					82	14										96	56	11.5	8.3
FOREST	RANGE LINE L	82	12	10																						0	10		*
FOREST	ROBERTS L	414	133	79					44	35																79	0	6.1	13.0
FOREST	STEVENS L	297	39	23										23												23	0	1.0	23.0
FOREST	TRUMP L	172	24	20																						0	20		*
LANGLADE	BIG TWIN L	60	4	3																						0	3		*
LANGLADE	ENTERPRISE L	502	210	125						104																104	21	4.4	23.6
LANGLADE	JESSIE L	35	3	2																						0	2		*
LANGLADE	LAWRENCE L	50	8	6																						0	6		*
LANGLADE	MOCCASIN L	110	16	13																						0	13		*
LANGLADE	MUELLER L	88	13	11																						0	11		*
LANGLADE	OTTER L	90	6	5																						0	5		*
LANGLADE	PICKEREL L	1299	30	25																						0	25		*
LANGLADE	ROLLING STONE L	672	81	68																						0	68		*
LANGLADE	ROSE L	112	16	13					**	**																0	13		*
LANGLADE	SAWYER L	149	8	6					**	**																0	6		*
LANGLADE	SUMMIT L	282	8	6																						0	6		*
LANGLADE	UPPER POST L	757	90	76																						0	76		*
LANGLADE	WHITE L	166	9	7																						0	7		*
LINCOLN	ALEXANDER L	677	21	17																						0	17		*
LINCOLN	DEER L	152	9	6																						0	6		*
LINCOLN	JERSEY CITY FL	433	180	152																						0	152		*
LINCOLN	L ALICE	1369	533	452																						0	452		*
LINCOLN	SPIRIT R FL	1663	640	543																						0	543		*
MARINETTE	CALDRON FALLS RESERVOIR	1018	26	22																						0	22		*
MARINETTE	HIGH FALLS RESERVOIR	1498	580	492																						0	492		*
MARINETTE	HILBERT L	247	33	28																						0	28		*

Appendix B. Number of walleye harvested nightly on lakes selected by six Wisconsin Chippewa bands during spring 2003. Also, balance of quota, number of boat-hours, catch per effort (CPE - walleye per boat-hour), number of spearer-nights, number of interviews with effort, and number of interviews without effort.

County	Sokaogon (Mole Lake) Lake	Area (acres)	Walleye Safe Harvest	2003 Tribal Quota	May															Total Harvest	Quota Balance	Boat- Hour	CPE			
					April					May																
					20	21	22	23	24	25	26	27	28	29	30	1	2	3	4					5		
OCONTO	ARCHIBALD L	430	54	45																	0	45		*		
OCONTO	BASS L	149	20	15																		0	15		*	
OCONTO	BOOT L	235	101	60		1		56														57	3	9.1	6.3	
OCONTO	MAIDEN L	290	38	32																		0	32		*	
OCONTO	TOWNSEND FL	476	17	14																		0	14		*	
OCONTO	WHEELER L	293	125	106							33											33	73	2.2	15.0	
ONEIDA	BIG FORK L	690	280	167									167									167	0	2.5	66.8	
ONEIDA	BIG L	865	346	294									**	**	**							0	294		*	
ONEIDA	BIG STONE L	548	225	191																		0	191		*	
ONEIDA	COLUMBUS L	670	272	231																		0	231		*	
ONEIDA	CRESCENT L	612	250	149						149												149	0	4.3	34.7	
ONEIDA	EMMA L	223	30	25																		0	25		*	
ONEIDA	FOURMILE L	218	94	79								0										0	79	1.3	0.0	
ONEIDA	FOURTH L	258	110	93																		0	93		*	
ONEIDA	HAT RAPIDS FL	650	264	224																		0	224		*	
ONEIDA	INDIAN L	397	166	141																		0	141		*	
ONEIDA	L JULIA (RHINELANDER)	238	102	86																**		0	86		*	
ONEIDA	LAUREL L	232	100	84								**	**									0	84		*	
ONEIDA	LONG L	620	253	215								**	**	**	**	**	7					7	208	1.5	4.7	
ONEIDA	LOWER NINEMILE L	646	21	17																		0	17		*	
ONEIDA	PELICAN L	3585	1062	817	1	0	281	221	118	105	91											817	0	65.9	12.4	
ONEIDA	PLANTING GROUND L	1012	401	340								**	46	58	120	30	57	**				311	29	13.7	22.7	
ONEIDA	RHINELANDER FL	1326	517	439																		0	439		*	
ONEIDA	SEVENMILE L	503	208	124					84	40												124	0	8.0	15.5	
ONEIDA	SPIRIT L	368	155	147																		0	147		*	
ONEIDA	SQUASH L	392	164	139							109											109	30	8.3	13.1	
ONEIDA	THUNDER L	172	75	63																		0	63		*	
ONEIDA	THUNDER L	1768	189	160																		0	160		*	
ONEIDA	VIRGIN L	276	118	112																		0	112		*	
ONEIDA	WHITEFISH L	205	10	8																		0	8		*	
VILAS	BIG SAND L	1408	155	131										89		**	**	**				89	42	4.0	22.3	
VILAS	CATFISH L	1012	401	340									**	**		**	**					0	340		*	
VILAS	KENTUCK L	957	311	0																		0	0		*	
VILAS	LAC VIEUX DESERT	4300	1005	854									789		**	66						855	-1	22.8	37.5	
VILAS	LONG L	872	698	418										179	99	21	**	**	15	**		314	104	26.3	11.9	
VILAS	TWIN L CHAIN	3430	714	549										435	**	**	**	**	**			435	114	11.0	39.5	
Number of lakes:		82			1	6	5	4	6	6	7	7	6	7	7	11	7	7	3	1						
Area in acres:		52,855																								
Number of walleye:			13,989	10,702	1	245	390	321	395	524	412	272	849	761	242	156	66	7	15	0	4,656	6,046				
Number of spearer-nights:					10	18	21	15	21	27	20	11	25	17	12	9	3	3	2	0	214					
Number of interviews with effort:					4	8	9	7	10	13	11	5	9	7	5	5	2	2	1	0	98					
Number of interviews without effort:					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Number of boat-hours:					5.9	14.9	19.1	25.7	32.1	37.8	29.3	12.0	31.8	27.6	14.6	12.0	5.9	2.5	2.3	0.0				268.4		
Catch-per-effort:					0.2	16.4	20.4	12.5	12.3	13.9	14.1	22.7	26.7	27.6	16.6	13.0	11.2	2.8	6.5	0.0					17.3	

* Lakes not speared during spring 2003.
 ** Lakes open for spearing but no effort.

Appendix B. Number of walleye harvested nightly on lakes selected by six Wisconsin Chippewa bands during spring 2003. Also, balance of quota, number of boat-hours, catch per effort (CPE - walleye per boat-hour), number of spearer-nights, number of interviews with effort, and number of interviews without effort.

County	Red Cliff Lake	Area (acres)	Walleye Safe Harvest	2003 Tribal Quota	April												May		Total Harvest	Quota Balance	Boat- Hour	CPE
					21	22	23	24	25	26	27	28	29	30	1	2						
BAYFIELD	DIAMOND L	341	144	86						**				32	21	33	86	0	9.5	9.1		
BAYFIELD	L OWEN	1323	258	99						82				**	**	17	99	0	9.7	10.2		
BAYFIELD	MIDDLE EAU CLAIRE L	902	360	305	**	80	125	83					**	**	17		305	0	14.3	21.3		
BAYFIELD	NAMEKAGON L	3227	2015	775					449	326							775	0	31.4	24.7		
BAYFIELD	PIKE L CHAIN	714	449	269					267								267	2	15.7	17.0		
BAYFIELD	UPPER EAU CLAIRE L	1030	408	244	77	**		166									243	1	13.3	18.3		
DOUGLAS	L NEBAGAMON	914	365	310							**	126	72	3	**	**	201	109	15.5	13.0		
DOUGLAS	LOWER EAU CLAIRE L	802	401	240			239										239	1	13.0	18.4		
DOUGLAS	UPPER ST CROIX L	855	342	205	**	50	55	100									205	0	9.0	22.8		
SAWYER	NELSON L	2503	588	226			**	**	121	**	42	**	**	**	**	**	163	63	10.5	15.5		
Number of lakes:		10			3	3	3	4	3	4	2	2	5	5	5	2						
Area in acres:		12,611																				
Number of walleye:			5,330	2,759	77	130	419	349	716	529	0	168	104	24	67	0	2,583	176				
Number of spearer-nights:					4	5	20	14	19	30	0	6	7	5	6	0	116					
Number of interviews with effort:					2	2	10	7	8	12	0	3	3	2	3	0	52					
Number of interviews without effort:					0	0	0	0	0	0	0	0	0	0	0	0	0					
Number of boat-hours:					6.0	6.0	18.3	18.3	27.7	33.6	0.0	10.5	10.0	5.0	6.5	0.0			141.9			
Catch-per-effort:					12.8	21.7	22.9	19.1	25.8	15.7	0.0	16.0	10.4	4.8	10.3	0.0				18.2		

* Lakes not speared during spring 2003.

** Lakes open for spearing but no effort.

Appendix B. Number of walleye harvested nightly on lakes selected by six Wisconsin Chippewa bands during spring 2003. Also, balance of quota, number of boat-hours, catch per effort (CPE - walleye per boat-hour), number of spearer-nights, number of interviews with effort, and number of interviews without effort.

County	St. Croix Lake	Area (acres)	Walleye Safe Harvest	2003 Tribal Quota	2003																							Total Harvest	Quota Balance	Boat- Hour	CPE										
					April							May																													
					11	12	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7											
BARRON	BEAR L	1358	150	82									**	81																	81	1	5.6	14.5							
BARRON	BEAVER DAM L	1112	126	69							4	9		9			11		4	**	4		1	**						42	27	28.8	1.5								
BARRON	BIG MOON L	191	26	14												9		**												9	5	2.0	4.5								
BARRON	GRANITE L	154	22	12																										0	12		*								
BARRON	HORSESHOE L	115	51	28													13													13	15	5.0	2.6								
BARRON	LOWER DEVILS L	162	71	39														16		**										16	23	2.0	8.0								
BARRON	LOWER TURTLE L	276	36	19																**										0	19		*								
BARRON	PRAIRIE L	1534	286	114													**												0	114		*									
BARRON	RED CEDAR L	1841	374	149							10	**	**	**	110			**			29									149	0	11.2	13.3								
BARRON	SAND L	322	42	23											23														23	0	2.7	8.5									
BARRON	SILVER L	337	142	78									**	0															0	78	1.2	0.0									
BARRON	UPPER TURTLE L	438	55	30				**		30																			30	0	2.6	11.5									
BURNETT	BIG MCKENZIE L	1185	133	73			74												**	**	**	**	**	**	**	**	**	**	74	-1	18.8	3.9									
BURNETT	DEVILS L	1001	115	63			23	**		40																			63	0	9.8	6.4									
BURNETT	LIPSETT L	393	50	27							7	20																	27	0	2.3	11.7									
BURNETT	LITTLE YELLOW L	348	147	80			6	**		7	**	**			1	**	**		**	**								14	66	8.7	1.6										
BURNETT	RICE LAKE	311			**								**	**						**	**	**	**					0	0		*										
BURNETT	ROONEY L	322	42	23									**	**				5										5	18	3.0	1.7										
BURNETT	SAND L	962	111	61						**	21	11			25													57	4	8.8	6.5										
BURNETT	YELLOW L	2287	237	130			11	**		17	**	**			28	38	10		6	**								110	20	38.5	2.9										
POLK	BALSAM L	2054	368	147			82	**		61																		143	4	12.2	11.7										
POLK	BEAR L	155	68	37														**										0	37		*										
POLK	BIG BUTTERNUT L	378	48	26											26													26	0	1.6	16.3										
POLK	BIG ROUND L	1015	116	63			36	**		4					**												40	23	20.2	2.0											
POLK	HALF MOON L	579	75	29				**		29																		29	0	2.5	11.6										
POLK	INDIANHEAD FL	776	312	171																								0	171		*										
POLK	MAGNOR L	224	30	16	4	2						**	55									10						16	0	2.8	5.7										
POLK	PIPE L	270	115	63							**	55																55	8	6.1	9.0										
POLK	WAPOGASSET L	1186	133	73	19	22	32																					73	0	7.9	9.2										
ST CROIX	CEDAR L	1100	434	238																	1							1	237	1.4	0.7										
WASHBURN	BALSAM L	295	125	68							23	24		**	21													68	0	9.0	7.6										
WASHBURN	BASS-PATTERSON L	188	86	34																	35							35	-1	3.7	9.5										
WASHBURN	BIG BASS L	203	28	15														**										0	15		*										
WASHBURN	L NANCY	772	311	171								171								**	**	**	**	**	**	**	**	171	0	8.8	19.4										
WASHBURN	LONG L	3290	521	156								94	38		5		**		**	**	**	**	**	**	**	**	**	137	19	15.9	8.6										
WASHBURN	MATTHEWS L	263	35	19																								0	19		*										
WASHBURN	MIDDLE MCKENZIE L	530	218	119			0			110						3		6					**	**	**	**	**	119	0	29.7	4.0										
WASHBURN	SHELL L	2580	965	530									29					22	0	74	21	**	**	**	**	**	**	159	371	57.9	2.7										
Number of lakes:		38			2	2	8	8	0	8	8	8	8	8	8	7	7	5	6	7	7	6	6	6	4	3	0	0	0	0	0	0	0	0	0	8	1,785	1,304			
Area in acres:		30,507																																							
Number of walleye:			6,204	3,089	23	24	264	0	0	298	44	129	276	157	213	118	38	21	34	4	103	25	1	3	2	0	0	0	0	0	0	0	0	0	8	1,785	1,304				
Number of spearer-nights:					6	4	32	7	0	37	13	24	23	38	31	15	19	13	11	3	9	12	3	8	4	0	0	0	0	2	3	317									
Number of interviews with effort:					3	2	16	2	0	15	6	12	9	17	15	8	10	3	6	2	4	5	2	6	2	0	0	0	0	1	1	147									
Number of interviews without effort:					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of boat-hours:					4.8	3.8	47.8	2.2	0.0	37.5	10.2	24.0	22.3	37.4	25.1	12.7	25.7	18.1	20.2	6.3	9.2	9.8	5.8	13.3	5.5	0.0	0.0	0.0	1.8	2.5						330.7					
Catch-per-effort:					4.8	6.3	5.5	0.0	0.0	7.9	4.3	5.4	12.4	4.2	8.5	9.3	1.5	1.2	1.7	0.6	11.2	2.6	0.2	0.2	0.4	0.0	0.0	0.0	0.0	3.2							5.4				

* Lakes not speared during spring 2003.
** Lakes open for spearing but no effort.
*** Lakes opened for muskellunge harvest only.

Appendix B. Number of walleye harvested nightly on lakes selected by six Wisconsin Chippewa bands during spring 2003.

Also, balance of quota, number of boat-hours, catch per effort (CPE - walleye per boat-hour), number of spearer-nights, number of interviews with effort, and number of interviews without effort.

Six Tribal Bands Combined:	Area (acres)	Safe Harvest	Tribal Quota	April																			
				11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Number of lakes:	281			2	2	0	8	8	3	8	17	22	17	29	33	29	35	35	35	34	34	35	35
Area in acres:	257,667																						
Number of walleye:		77,452	45,776	23	24	0	264	0	55	298	196	618	641	1,120	1,723	2,046	1,945	3,781	3,775	1,763	2,959	2,218	1,676
Number of spearer-nights:				6	4	0	32	7	6	37	23	59	64	93	109	101	105	173	166	68	112	101	83
Number of interviews with effort:				3	2	0	16	2	3	15	13	25	22	41	52	50	48	70	70	29	45	40	34
Number of interviews without effort:				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of boat-hours:				4.8	3.8	0.0	47.8	2.2	3.0	37.5	17.2	56.0	52.8	97.3	101.0	103.0	124.1	183.3	210.4	70.5	117.1	119.4	92.1
Catch-per-effort:				4.8	6.3	0.0	5.5	0.0	18.3	7.9	11.4	11.0	12.1	11.5	17.1	19.9	15.7	20.6	17.9	25.0	25.3	18.6	18.2

Six Tribal Bands Combined: <i>(continued)</i>	Area (acres)	Safe Harvest	Tribal Quota	May														Total	Quota Balance	Boat- Hour	CPE
				1	2	3	4	5	6	7	8	9	10	13	14						
Number of lakes:	281			38	28	22	15	16	14	6	0	3	2	2	2	569					
Area in acres:	257,667																				
Number of walleye:		77,452	45,776	1,356	484	340	24	0	19	86	0	39	29	0	0	27,502	18,274				
Number of spearer-nights:				70	36	30	7	0	10	5	0	6	2	3	2	1520					
Number of interviews with effort:				34	16	14	3	0	4	2	0	3	1	1	1	659					
Number of interviews without effort:				0	0	0	0	0	0	0	0	0	0	0	0	0					
Number of boat-hours:				104.0	45.6	36.4	7.6	0.0	13.1	8.3	0.0	5.6	6.0	3.0	3.0			1,661.6			
Catch-per-effort:				13.0	10.6	9.3	3.2	0.0	1.5	10.4	0.0	7.0	4.8	0.0	0.0				16.6		

Appendix C. Total number of walleye harvested and measured per inch group and sexed during spring in 2003. Data arranged alphabetically by tribe, county, and lake.

Bad River		Area	INCH GROUP																										Total Measured	Total Harvested	Total Inches	Mean Length	Female	Male	Unknown	Total Sexed
County	Lake		9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28														
BAYFIELD	L OWEN	1323				1	1	5	11	28	21	20	6		3	2		1										99	99	1716.0	17.3	9	90		99	
BAYFIELD	NAMEKAGON L	3227	1	4	50	132	187	172	108	51	28	13	5				2	2	1								758	758	10748.1	14.2	86	669	3	758		
CHIPPEWA	L WISSOTA	6300				3	2	3		3	1		1														13	13	193.7	14.9		13		13		
CHIPPEWA	LONG L	1052		2	10	38	52	55	44	31	11	2		1	3												249	249	3594.6	14.4	10	229	10	249		
DOUGLAS	WHITEFISH L	832							4	4	6	20	17	6	2	2											61	61	1080.3	17.7	2	58	1	61		
IRON	ECHO L	220	2							1	2																5	5	66.1	13.2			5	5		
IRON	PINE L	312				1																					1	1	12.3	12.3		1		1		
IRON	TRUDE L	781	1	1	5	18	39	54	31	16	1																166	166	2366.7	14.3	2	145	19	166		
IRON	TURTLE-FLAMBEAU FL	13545	16	10	24	35	30	31	16	13	2	1															178	178	2338.7	13.1	1	145	32	178		
RUSK	CHAIN L	468			1	2	7	6	2	3	8	7	4														40	40	641.8	16.0		10	30	40		
RUSK	ISLAND L	526		1	3	17	19	20	9	5	10	7	3	2	4	1											101	101	1538.3	15.2	2	65	34	101		
SAWYER	CONNORS L	429			2	6	17	24	20	14	7	5	3	2	3	1											105	105	1643.4	15.7	17	54	34	105		
SAWYER	NELSON L	2503				1		1	6	8	7	10	2	1													38	38	672.8	17.7	4	32	2	38		
SAWYER	TEAL L	1049		2	11	47	65	45	32	19	11	7	3	1	2				1	1							248	248	3590.5	14.5	11	235	2	248		
VILAS	BLACK OAK L	584				1	1	4	1	6	2	5	5	1	2	1											29	29	510.8	17.6	1	21	7	29		
VILAS	FOREST L	466				1	3	6	16	37	30	4	1			1											99	99	1639.7	16.6	3	91	5	99		
VILAS	HARRIS L	507			3	15	59	25	7	4	1	1	2	3		1		2	2								125	125	1803.6	14.4	6	110	9	125		
VILAS	HIGH L	734		3	12	15	20	39	27	24	16	12	4	1	1	1	1	1	2								178	178	2706.2	15.2	10	143	25	178		
VILAS	MAMIE L	400	1	3	6	11	19	20	22	6	3	1	3		1												96	96	1381.0	14.4	2	87	7	96		
VILAS	PRESQUE ISLE L CHAIN	1571		4	32	46	83	91	61	19	18	4	4	3	3	3			1	1							376	376	5451.5	14.5	24	330	22	376		
	Sub-total:	36829	21	30	159	390	604	605	418	295	197	116	52	17	24	13	3	8	5	3	4	1					2,965	2,965	43,696.1	14.7	190	2528	247	2,965		

Appendix C (continued). Total number of walleye harvested and measured per inch group and sexed during spring in 2003. Data arranged alphabetically by tribe, county, and lake.

Lac Courte Oreilles		Area	INCH GROUP																Total Measured	Total Harvested	Total Inches	Mean Length	Female	Male	Unknown	Total Sexed				
County	Lake		9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24									25	26	27	28
RUSK	PULASKI L	126				5	17	11	6	4	3		1										47	47	728.7	15.5		47		47
RUSK	SAND L	262				1					2		1	3	1								8	8	150.4	18.8	1	6	1	8
SAWYER	DURPHEE L	193				2	6	7	17	10	1	1	1	1									46	46	710.7	15.4	2	41	3	46
SAWYER	GRINDSTONE L	3111			2	18	45	49	60	88	86	54	33	11	11	2	4	3	1	4	1	1	473	473	7935.0	16.8	34	393	46	473
SAWYER	L CHETAC	1920			1	5	24	47	80	118	101	35	16	5	1		2	4				439	439	7241.8	16.5	15	407	17	439	
SAWYER	L CHIPPEWA	15300	2	3	48	203	293	327	306	156	86	43	25	21	11	7	5	6	2	6	3	1	1554	1554	23261.4	15.0	171	1300	83	1554
SAWYER	LAC COURTE OREILLES	5039			1	3	30	73	47	44	20	21	26	13	14	4	2	4	1	1		304	304	5053.0	16.6	20	245	39	304	
SAWYER	LOST LAND L	1304				5	13	25	16	6	9	1		2	1					1		79	79	1210.5	15.3	1	76	2	79	
SAWYER	ROUND L	3054			2	6	50	102	101	77	57	29	18	9	12	1	3		1			469	469	7536.3	16.1	47	356	66	469	
SAWYER	SISSABAGAMA L	719		2	9	42	53	32	12	9		1	2		5	1	2	2	2			174	174	2490.5	14.3	16	142	16	174	
SAWYER	SMITH L	323											1	1								2	2	39.5	19.8		2		2	
SAWYER	SPIDER L	1454					9	27	67	78	42	27	7	9	4	5	5					280	280	4973.1	17.8	105	150	25	280	
SAWYER	WHITEFISH L	786			2	10	14	17	12	8	16	11	9	6	2	4	3	1	1	1		117	117	1957.3	16.7	5	70	42	117	
SAWYER	WINDFALL L	102			8	8	11	6	2	2	1	1										39	39	524.6	13.5	3	36		39	
	Sub-total:	33693	2	5	73	302	545	711	691	591	461	242	159	80	67	23	24	23	12	13	4	3	4,031	4,031	63,812.8	15.8	420	3271	340	4,031

Appendix C (continued). Total number of walleye harvested and measured per inch group and sexed during spring in 2003. Data arranged alphabetically by tribe, county, and lake.

Lac du Flambeau		Area	INCH GROUP																														Total Meas.	Total Harv.	Total Inches	Mean Length	Female	Male	Unk.	Total Sexed	
County	Lake		8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32														
VILAS	BIRCH L	528			1	1	5	1	1	1	2	1																					13	13	175.9	13.5	2	1	10	13	
VILAS	BOULDER L	524					3	11	28	31	26	7	4	4	1		1																116	116	1816.3	15.7	11	74	31	116	
VILAS	CLEAR L	555					1	4	20	41	30	13	4	2	2				1		1												119	119	1915.4	16.1	12	102	5	119	
VILAS	CRANBERRY L	956			6	31	39	31	25	26	9	2	3					1															173	173	2341.9	13.5	10	133	30	173	
VILAS	EAGLE L	572			3	11	22	17	18	8	14	3	3	2	1		1	1															104	104	1480.3	14.2	2	72	30	104	
VILAS	FISHTRAP L	329					1	4	10	9	6	4	6	3		1	1	2															47	47	778.2	16.6	2	17	28	47	
VILAS	HORSEHEAD L	234			1		7	7	8	5	6	2	2	1	1																		40	40	590.9	14.8	5	21	14	40	
VILAS	ISLAND L	1,023			2	1	4	13	23	39	24	8	3	1	2	3				1								2	1				127	221	2002.4	15.8	11	95	3	109	
VILAS	JAG L	158																		2		1										3	3	77.6	25.9	2	1		3		
VILAS	L LAURA	599				2	13	37	33	24	6	7	2	2		1	1	1		1	1	2								1		134	134	2035.5	15.2	23	108	3	134		
VILAS	LITTLE ARBOR VITAE L	534			1	2	3	11	18	31	25	13	4	6	1		3	1	1														120	120	1912.9	15.9	7	113		120	
VILAS	LITTLE ST GERMAIN L	980	1	2	1	1				3	2	1	2	1	1	1		1	1									1	1				20	20	350.6	17.5	3	5	12	20	
VILAS	LITTLE STAR L	244			1		7	27	23	16	19	8	6				2	1				1						3					114	114	1771.9	15.5	12	83	19	114	
VILAS	LYNX L	339			3	4	9	5	5	10	7		1	1	1							1											47	47	682.4	14.5	3	37	7	47	
VILAS	MANITOWISH L	506		1	1	8	9	15	13	30	9	12	4		1	2	4		2			1											112	112	1732.4	15.5	7	66	39	112	
VILAS	OXBOW L	511				4	23	30	17	10	4	3	2	4	1	5	1	4		1													109	109	1640.2	15.0	32	47	30	109	
VILAS	PALMER L	635					1	2				1	1						1	1	1												9	9	166.0	18.4	2	1	6	9	
VILAS	PAPOOSE L	428				2	12	26	25	17	4	3	1				2		1			1					1		1				95	95	1405.4	14.8	9	80	6	95	
VILAS	PLUM L	1,033			1	2	9	33	39	42	50	25	11	2	1	2	4	1	2															224	224	3520.4	15.7	20	165	39	224
VILAS	RAZORBACK L	362				1	5	21	19	14	13	6	2				2																	83	83	1243.5	15.0	11	61	11	83
VILAS	REST L	608			2	8	22	19	18	22	28	7	4	3		1	1		1															136	136	2020.5	14.9	23	111	2	136
VILAS	SNIPE L	239					2	25	18	7	1	2								1														56	56	804.6	14.4	6	33	17	56
VILAS	SPIDER L	272					3	16	16	13	6	5	1		1					1														62	62	924.2	14.9	2	11		13
VILAS	SQUAW L	785			9	16	37	18	9	8	3																							101	101	1301.5	12.9	7	88	6	101
VILAS	STAR L	1,206				1	4	22	43	46	23	14	5	2	1		1	1				1												164	253	2540.4	15.5	19	143	2	164
VILAS	TROUT L	3,816					2	15	27	19	21	18	20	23	18		2	2	4	1	5	2	1	1										181	327	3375.6	18.6	21	97	63	181
VILAS	WHITE SAND L	728					2	2	4	5	14	5	8	1	3				1			1												47	47	812.4	17.3	5	25	17	47
VILAS	WILD RICE L	379		1	2	3	8	11	8	7	4	6	2	1	2																			56	56	824.2	14.7	6	8	42	56
	Sub-total:	74,048	5	12	103	471	1116	1566	1665	1549	1155	735	398	223	115	91	69	57	44	29	35	16	14	12	2	1	1					9,484	11,482	144,002.9	15	903	7,503	1,013	9,419		

Appendix C (continued). Total number of walleye harvested and measured per inch group and sexed during spring in 2003. Data arranged alphabetically by tribe, county, and lake.

Mole Lake (Sokoagon)		Area	INCH GROUP																												Total Measured	Total Harvested	Total Inches	Mean Length	Female	Male	Unknown	Total Sexed
County	Lake		9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30														
FLORENCE	FAY L	247							1	2	3	2					1												9	9	169.2	18.8		7	2	9		
FLORENCE	HALSEY L	512												1	1													2	2	43.4	21.7		2		2			
FOREST	BUTTERNUT L	1292				3	16	19	35	27	18	20	8	5			2	1										154	154	2526.2	16.4	17	131	5	153			
FOREST	FRANKLIN L	892				1	9	11	12	4	2				1		2		1									43	43	670.2	15.6	4	38	1	43			
FOREST	JUNGLE L	182		1	2		4	36	111	72	29	7	1	1														264	264	4169.1	15.8	2	255	7	264			
FOREST	L LUCERNE	1026				2	4	2	13	18	38	12	13	9	4	1	1			2		1						120	120	2140.4	17.8	14	88	18	120			
FOREST	L METONGA	1991				6	14	31	43	41	28	19	8	8	3	3		1										206	206	3377.6	16.4	18	161	27	206			
FOREST	LILY L	211			1	3	14	26	31	12	1		1															89	89	1320.8	14.8	1	79	9	89			
FOREST	PINE L	1670				1		2	12	32	25	6	5	6	1		3	2										96	96	1683.7	17.5	9	72	15	96			
FOREST	ROBERTS L	414			1	6	16	19	19	6	4				1	1	2	1	1	1	1							79	79	1234.4	15.6	6	64	9	79			
FOREST	STEVENS L	297								3	10	8	1	1														23	23	411.2	17.9		23		23			
LANGLADE	ENTERPRISE L	502				8	33	20	20	9	7	4	2		1													104	104	1543.9	14.8		72	32	104			
OCONTO	BOOT L	235					2	12	16	13	6	3	4															57	57	923.4	16.2	4	45	8	57			
OCONTO	WHEELER L	293				2	3	8	8	6	3	2					1											33	33	513.7	15.6	2	26	5	33			
ONEIDA	BIG FORK L	690		10	23	49	34	21	18	5	5	2																167	167	2217.4	13.3	6	149	12	167			
ONEIDA	CRESCENT L	612		1	7	24	35	38	23	9	3	2	1	1	1	1		2		1								149	149	2167.5	14.5	10	130	9	149			
ONEIDA	LONG L	620		2	1	1	2					1																7	7	88.8	12.7		7		7			
ONEIDA	PELICAN L	3585		3	3	41	95	181	137	110	79	56	38	24	18	16	4	5	1	5	1							817	817	13190.1	16.1	154	640	23	817			
ONEIDA	PLANTING GROUND L	1012	1	19	44	89	62	38	34	12	5	2	3	1	1													311	311	4138.7	13.3	17	250	44	311			
ONEIDA	SEVENMILE L	503					2	26	43	22	7	10	3	3	4	2		2										124	124	2033.4	16.4	13	106	5	124			
ONEIDA	SQUASH L	392				1	9	34	29	16	8	6	3	1	1		1											109	109	1713.3	15.7	19	85	5	109			
VILAS	BIG SAND L	1408				6	18	24	11	10	8	6	4		1	1												89	89	1372.9	15.4	6	78	5	89			
VILAS	LAC VIEUX DESERT	4300				43	138	207	195	96	60	43	29	11	6	9	7	4	2	2	3							855	855	13382.6	15.7	80	759	16	855			
VILAS	LONG L	872			8	61	27	11	5	26	53	50	34	12	7	2	4	4	1	3	1	1	2	2				314	314	5302.9	16.9	48	256	10	314			
VILAS	TWIN L CHAIN	3430		2	15	44	123	88	27	9	7	2	8		3	2	4	2	1	3	1	1	1					343	435	4976.4	14.5	37	278	28	343			
	Sub-total:	27188	1	38	105	391	660	854	842	559	409	263	168	83	54	39	32	24	7	17	11	2	3	2		4,564	4,656	71,311.2	15.6	467	3801	295	4,563					

Appendix C (continued). Total number of walleye harvested and measured per inch group and sexed during spring in 2003. Data arranged alphabetically by tribe, county, and lake.

Red Cliff		Area	INCH GROUP															Total Measured	Total Harvested	Total Inches	Mean Length	Female	Male	Unknown	Total Sexed				
County	Lake		9	10	11	12	13	14	15	16	17	18	19	20	21	22	23									24	25	26	27
BAYFIELD	DIAMOND L	341					1	1	1	1	23	23	21	5	3	2	1	3	1		86	86	1624.7	18.9	17	68		85	
BAYFIELD	L OWEN	1323				2	5	6	15	20	22	13	8	1	3		2			1	99	99	1700.0	17.2	15	81	3	99	
BAYFIELD	MIDDLE EAU CLAIRE L	902				11	28	84	87	51	19	12	7	3		2		1			305	305	4694.3	15.4	21	283	1	305	
BAYFIELD	NAMEKAGON L	3227			6	24	76	115	93	51	27	13	9	4	2	2	1	2			426	775	6478.8	15.2	53	372	1	426	
BAYFIELD	PIKE L CHAIN	714			8	13	26	32	62	39	13	4	2	1	1	1	3	1	1		209	267	3252.4	15.6	24	183	2	209	
BAYFIELD	UPPER EAU CLAIRE L	1030				6	16	31	59	67	28	13	6	6	4	2	2	1		2	243	243	3980.4	16.4	25	214	4	243	
DOUGLAS	L NEBAGAMON	914	1	1	5	19	49	50	31	15	19	7	2								201	201	2967.2	14.8	12	184	4	200	
DOUGLAS	LOWER EAU CLAIRE L	802			1	9	20	21	30	38	25	3	5	2	1	1	2	1			159	239	2535.7	15.9	34	119	6	159	
DOUGLAS	UPPER ST CROIX L	855			2	12	27	20	39	47	30	14	9	1	1		1	1		1	205	205	3265.5	15.9	23	182		205	
SAWYER	NELSON L	2503			1	1	9	13	28	36	27	20	13	6	4	5					163	163	2773.9	17.0	22	136		158	
	Sub-total:	12611	1	1	23	97	257	373	445	365	233	122	82	29	19	15	12	12	2	3	5	2,096	2,583	33,272.9	15.9	246	1822	21	2,089

Appendix C (continued). Total number of walleye harvested and measured per inch group and sexed during spring in 2003. Data arranged alphabetically by tribe, county, and lake.

St. Croix		Area	INCH GROUP																												Total Measured	Total Harvested	Total Inches	Mean Length	Female	Male	Unknown	Total Sexed
County	Lake		11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30																
BARRON	BEAR L	1358			1	7	10	20	17	13	4	3		3	1		1	1											81	81	1415.3	17.5	4	77		81		
BARRON	BEAVER DAM L	1112			2					6			2		2	7	1	1	1	3	6	6	3	2					42	42	1010.1	24.1	31	10	1	42		
BARRON	BIG MOON L	191									1	4	1	2														9	9	186.2	20.7	4	5		9			
BARRON	HORSESHOE L	115									2	2	4	3										1				13	13	259.2	19.9	2	11		13			
BARRON	LOWER DEVILS L	162			3		6	3	3	1																		16	16	251.5	15.7		13	3	16			
BARRON	RED CEDAR L	1841		5	21	17	11	27	29	22	14	1	1						1									149	149	2454.3	16.5	4	145		149			
BARRON	SAND L	322			1			2	3	7	3		3			2												23	23	447.1	19.4	10	11	2	23			
BARRON	UPPER TURTLE L	438			4	7	9	1	1		3	1	1	2						1								30	30	494.4	16.5	3	27		30			
BURNETT	BIG MCKENZIE L	1185				4	9	20	17	8	10	1		2	1	2												74	74	1300.9	17.6	5	69		74			
BURNETT	DEVILS L	1001	1	1	3	8	14	20	8	4		1							1	1						1		63	63	1042.1	16.5	5	56	2	63			
BURNETT	LIPSETT L	393		1			1	1	3	8	5	3		2	2					1								27	27	516.8	19.1	5	21	1	27			
BURNETT	LITTLE YELLOW L	348				1	2		1		2	3	1	1		1	2											14	14	282.9	20.2	9		5	14			
BURNETT	ROONEY L	322									1		3															5	5	110.9	22.2	1	4		5			
BURNETT	SAND L	962					2	8	7	15	9	6	2	4	1	2					1							57	57	1093.9	19.2	12	41	4	57			
BURNETT	YELLOW L	2287	1	2	9	10	11	14	17	19	12	4	5	3	3													110	110	1908.4	17.3	32	63	15	110			
POLK	BALSAM L	2054		1	10	16	26	21	21	16	10	1	8	1	2	3	1	1	3	2								143	143	2504.2	17.5	16	120	7	143			
POLK	BIG BUTTERNUT L	378						9	8	2	3	2							1		1							26	26	473.8	18.2	5	21		26			
POLK	BIG ROUND L	1015	1	2	3			1	4	6	11	4	2		2	1												40	40	763.5	19.1	10	24	6	40			
POLK	HALF MOON L	579		1	1		2	1	8	4	5	4	1															29	29	536.9	18.5	3	25	1	29			
POLK	MAGNOR L	224					1	1	2	4	3	2	3															16	16	304.7	19.0		16		16			
POLK	PIPE L	270		1				12	24	12	1	3	1	1														55	55	974.4	17.7	5	50		55			
POLK	WAPOGASSET L	1186			4	8	17	15	10	10	4	1	2	2														73	73	1222.5	16.7	12	60	1	73			
ST CROIX	CEDAR L	1100					1																					1	1	15.7	15.7		1		1			
WASHBURN	BALSAM L	295		1	3	6	8	15	9	7	10	4	1	2	1	1												68	68	1188.3	17.5	7	59	2	68			
WASHBURN	BASS-PATTERSON L	188	1	3	6	4	6	3	4	1	1				1	3	2											35	35	576.3	16.5	7	23	5	35			
WASHBURN	L NANCY	772		1		7	19	53	56	26	4	1	2	1														171	171	2922.6	17.1	12	159		171			
WASHBURN	LONG L	3290	1	1	6	5	14	42	28	11	11	3	2	4	1					3	1	1	2	1				137	137	2426.2	17.7	19	114	4	137			
WASHBURN	MIDDLE MCKENZIE L	530			1		1	7	13	38	33	14	6															119	119	2280.0	19.2	11	108		119			
WASHBURN	SHELL L	2580		1	6	15	27	38	31	21	6	7																158	159	2688.3	17.0	14	113	31	158			
	Sub-total:	26498	5	21	84	115	197	334	332	258	175	73	48	39	22	17	19	13	14	11	5	2						1,784	1,785	31,651.4	17.7	248	1446	90	1,784			

Appendix D. Number of walleye per inch group taken during spring spearing seasons from 1985-2003.

Inch Group	Number of walleye in:																			19 Year Total	Percent of Total	Cumulative Percent
	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003			
5								1					1	2						4	0.0%	0.0%
6		1						3					2				2			8	0.0%	0.0%
7							1	1		2			2	2			16			25	0.0%	0.0%
8				3	1	4	4	3	4	12	2	6	16	25	5	2	117	2	5	211	0.1%	0.1%
9	2	3	17	10	4	14	36	34	45	63	32	39	79	104	20	33	738	14	37	1,324	0.4%	0.4%
10	5	49	123	121	60	183	229	243	245	386	219	233	372	505	162	169	1,930	177	177	5,588	1.5%	2.0%
11	31	358	558	678	306	649	957	957	905	1,186	1,311	1,026	1,230	1,817	989	961	3,109	973	836	18,837	5.2%	7.1%
12	140	680	1,282	1,688	925	1,513	1,979	2,444	2,101	2,170	2,955	2,532	2,262	3,258	2,861	2,541	3,440	2,360	2,317	39,448	10.8%	18.0%
13	265	928	1,892	2,755	1,684	2,370	2,582	3,507	3,636	3,110	4,113	3,879	3,242	3,951	4,598	4,213	3,560	3,371	3,716	57,372	15.7%	33.7%
14	286	1,068	2,133	3,289	2,222	2,917	2,777	3,252	4,032	3,666	4,360	4,305	3,570	3,890	4,548	5,190	2,794	3,997	4,323	62,619	17.2%	50.9%
15	293	985	1,895	2,951	2,154	2,856	2,543	2,375	3,111	3,368	3,768	3,867	3,390	3,281	3,364	4,759	1,970	3,727	4,142	54,799	15.0%	65.9%
16	247	939	1,666	2,311	1,919	2,295	2,031	1,696	1,993	2,517	2,703	2,605	2,548	2,443	2,286	3,235	1,175	2,928	3,299	40,836	11.2%	77.1%
17	172	801	1,374	1,658	1,390	1,862	1,687	1,207	1,323	1,796	1,756	1,664	1,580	1,819	1,643	2,294	753	2,108	2,367	29,254	8.0%	85.1%
18	145	458	1,113	1,297	1,010	1,288	1,216	878	812	1,120	1,159	970	1,129	1,094	1,003	1,402	288	1,258	1,399	19,039	5.2%	90.4%
19	118	255	811	932	634	932	811	562	589	850	729	617	639	706	599	831	220	787	859	12,481	3.4%	93.8%
20	33	149	513	596	328	556	590	261	308	383	440	358	378	338	307	376	152	326	397	6,789	1.9%	95.6%
21	25	72	259	316	210	307	303	199	218	267	238	240	237	260	258	275	108	255	303	4,350	1.2%	96.8%
22	18	50	148	214	109	202	249	171	148	205	195	156	186	183	193	208	85	176	198	3,094	0.8%	97.7%
23	18	23	116	134	76	160	151	129	120	189	164	120	142	134	165	154	63	126	150	2,334	0.6%	98.3%
24	11	9	86	124	67	100	111	85	101	145	158	111	105	90	93	119	57	105	128	1,805	0.5%	98.8%
25	7	10	76	89	48	107	102	66	80	98	109	97	98	81	87	82	37	90	74	1,438	0.4%	99.2%
26	9		57	75	45	71	86	65	54	91	80	64	85	91	78	61	15	61	84	1,172	0.3%	99.5%
27	10	3	42	56	31	63	46	42	33	55	57	51	56	53	58	38	7	48	54	803	0.2%	99.8%
28	5	1	28	32	18	30	39	25	27	30	36	37	32	49	27	24	3	22	31	496	0.1%	99.9%
29	8		25	30	8	15	15	17	12	12	16	15	13	22	16	8		17	20	269	0.1%	100.0%
30	11		8	9	3	5	6	6	1	5	3	6	4	5	9	8		3	6	98	0.0%	100.0%
31	6		2		2	1		1			1	1	1	1	1				1	18	0.0%	100.0%
32	2															1				6	0.0%	100.0%
33	1														1					1	0.0%	100.0%
34																					0.0%	
35																					0.0%	
36																					0.0%	
37																					0.0%	
Total No. Measured:	1,868	6,842	14,224	19,368	13,254	18,500	18,551	18,226	19,903	21,726	24,605	22,999	21,399	24,204	23,371	26,984	20,639	22,931	24,924	364,518	100%	100%
Total Length:	30,382	106,051	226,789	306,926	211,645	295,047	291,543	275,331	301,713	335,322	375,476	348,750	327,444	363,297	354,052	415,478	320,102	354,158	387,747	5,627,254		
Average Length:	16.3	15.5	15.9	15.8	16.0	15.9	15.7	15.1	15.2	15.4	15.3	15.2	15.3	15.0	15.1	15.4	15.5	15.4	15.6	15.4		
Total No. Speared:	2,761	6,940	21,321	25,969	16,054	25,348	23,018	21,188	24,532	25,922	30,249	28,327	24,002	27,218	26,105	30,367	22,743	25,543	27,502	435,109		
Percent Measured:	68%	99%	67%	75%	83%	73%	81%	86%	81%	84%	81%	81%	89%	89%	90%	89%	91%	90%	91%	84%		

Appendix E. Number of muskellunge harvested nightly on lakes speared by six Wisconsin Chippewa bands during spring spearing 2003.

County	Lake	Area	Tribe	2003 Safe Harvest	2003 Declaration	April													May													Total Harvest	Quota Balance	Number Measured	Total Inches	Average Length	Number Per Acre				
						14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	13											
ASHLAND	BEAR L	204	BRV	6	3																								0	3											
ASHLAND	GORDON L	142	BRV	5	2																								0	2											
BAYFIELD	NAMEKAGON L	3,227	BRV	39	11																								0	11											
CHIPPEWA	HOLCOMBE FL	3,890	BRV	43	25																								0	25											
CHIPPEWA	L WISSOTA	6,300	BRV	58	34																								0	34											
CHIPPEWA	LONG L	1,052	BRV	19	11																								0	11											
DOUGLAS	AMNICON L	426	BRV	10	5																								0	5											
DOUGLAS	DOWLING L	154	BRV	5	2																								0	2											
IRON	ECHO L	220	BRV	7	4																								0	4											
IRON	FISHER L	452	BRV	11	6																								0	6											
IRON	L OF THE FALLS	338	BRV	9	5																								0	5											
IRON	LONG L	396	BRV	22	13																								0	13											
IRON	PINE L	312	BRV	8	4																								0	4											
IRON	SPIDER L	352	BRV	9	5																								0	5											
IRON	TRUDE L	781	BRV	16	9																							1	8		1	40.0	40.0	0.0013							
IRON	TURTLE-FLAMBEAU FL	13,545	BRV	92	17																								0	17											
PRICE	DUROY L	379	BRV	10	5																								0	5											
PRICE	LONG L	418	BRV	10	5																								0	5											
PRICE	SOLBERG L	859	BRV	17	10																								0	10											
RUSK	CHAIN L	468	BRV	11	6																								0	6											
RUSK	DAIRYLAND RESERVOIR	1,745	BRV	26	15																								0	15											
RUSK	ISLAND L	526	BRV	12	7																								0	7											
SAWYER	CONNORS L	429	BRV	10	5																								0	5											
SAWYER	TEAL L	1,049	BRV	19	11																								0	11											
TAYLOR	RIB L	320	BRV	9	2																								0	2											
VILAS	ANNABELLE L	213	BRV	6	3																								0	3											
VILAS	AVERILL L (P.I. CHAIN)	71	BRV	3	1																								0	1											
VILAS	CRAB L	949	BRV	18	10																								0	10											
VILAS	HARRIS L	507	BRV	12	7																								0	7											
VILAS	HIGH L	734	BRV	15	8																								3	5		3	106.6	35.5	0.0041						
VILAS	MAMIE L	400	BRV	10	5																								0	5											
VILAS	N TURTLE L	369	BRV	9	5																								0	5											
VILAS	PRESQUE ISLE L (P.I. CHAIN)	1,280	BRV	21	12																								0	12											
VILAS	S TURTLE L	454	BRV	11	6																								0	6											
VILAS	TENDERFOOT L	437	BRV	9	5																								0	5											
VILAS	VAN VLIET L (P.I. CHAIN)	220	BRV	7	4																								0	4											
	Bad River sub-total:			604	288	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	284	4	146.6	36.7	
RUSK	POTATO L	534	LCO	12	6																									0	6										
RUSK	SAND L	262	LCO	7	4																									1	3		1	34.4	34.4	0.0038					
SAWYER	BARBER L	238	LCO	7	4																									0	4										
SAWYER	GRINDSTONE L	3,111	LCO	18	9																									7	2		7	263.3	37.6	0.0023					
SAWYER	L CHIPPEWA	15,300	LCO	66	33																									2	31		2	80.2	40.1	0.0001					
SAWYER	L OF THE PINES	273	LCO	8	4																									0	4										
SAWYER	LAC COURTE OREILLES	5,039	LCO	33	17																									1	16		1	30.4	30.4	0.0002					
SAWYER	LOST LAND L	1,304	LCO	22	11																									2	9		2	74.0	37.0	0.0015					
SAWYER	ROUND L	3,054	LCO	37	19																									3	16		3	120.8	40.3	0.0010					
SAWYER	SAND L	928	LCO	17	9																									0	9										
SAWYER	SISSABAGAMA L	719	LCO	21	11																									2	1		3	8	3	111.1	37.0	0.0042			

Appendix E. Number of muskellunge harvested nightly on lakes speared by six Wisconsin Chippewa bands during spring spearing 2003.

County	Lake	Area	Tribe	2003 Safe Harvest	2003 Declaration	April														May														Total Harvest	Quota Balance	Number Measured	Total Inches	Average Length	Number Per Acre
						14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	13									
TAYLOR	RIB L	320	LDF	9	2																								0	2									
VILAS	ALDER L	274	LDF	8	4																								0	4									
VILAS	BALLARD L	505	LDF	12	6																							2	4	2		75.0	37.5	0.0040					
VILAS	BIG ARBOR VITAE L	1,090	LDF	19	9																							9	0	9		335.7	37.3	0.0083					
VILAS	BIG CROOKED L	682	LDF	14	0																							0	0										
VILAS	BIG L (BOULDER JCT)	835	LDF	16	8																							1	7	1		44.0	44.0	0.0012					
VILAS	BIG L (MI BORDER)	771	LDF	12	6																							0	6										
VILAS	BIG MUSKELLUNGE L	930	LDF	17	8																							3	5	3		112.2	37.4	0.0032					
VILAS	BIG ST GERMAIN L	1,617	LDF	25	12																							3	9	3		112.0	37.3	0.0019					
VILAS	BIRCH L	528	LDF	12	6																							1	5	1		34.4	34.4	0.0019					
VILAS	BOULDER L	524	LDF	12	6																							2	4	2		81.2	40.6	0.0038					
VILAS	CLEAR L	555	LDF	12	6																							3	3	3		124.0	41.3	0.0054					
VILAS	CRANBERRY L	956	LDF	18	9																							5	4	5		173.4	34.7	0.0052					
VILAS	EAGLE L	572	LDF	13	6																							0	6										
VILAS	ESCANABA L	293	LDF	8	0																							0	0										
VILAS	FISHTRAP L	329	LDF	9	4																							0	4										
VILAS	HORSEHEAD L	234	LDF	7	3																							2	1	2		72.1	36.1	0.0085					
VILAS	IRVING L	403	LDF	10	5																							0	5										
VILAS	ISLAND L	1,023	LDF	19	9																							0	9										
VILAS	JAG	158	LDF	9	4																							3	-3	3		116.5	38.8	0.0190					
VILAS	KENTUCK L	957	LDF	18	4																							0	4										
VILAS	L LAURA	599	LDF	13	6																							3	3	3		118.3	39.4	0.0050					
VILAS	LITTLE ARBOR VITAE L	534	LDF	12	6																							0	6										
VILAS	LITTLE CROOKED L	153	LDF	5	2																							0	2										
VILAS	LITTLE JOHN L	166	LDF	5	2																							0	2										
VILAS	LITTLE ST GERMAIN L	980	LDF	18	9																								5	4	5		212.1	42.4	0.0051				
VILAS	LITTLE STAR L	244	LDF	7	3																							0	3										
VILAS	LITTLE TROUT L	978	LDF	5	2																							0	2										
VILAS	LOWER BUCKATABON L	352	LDF	9	4																							0	4										
VILAS	LYNX L	339	LDF	9	4																								1	3	1		40.0	40.0	0.0029				
VILAS	MANITOWISH L	506	LDF	12	6																							1	5	1		43.0	43.0	0.0020					
VILAS	OXBOW L	511	LDF	12	6																								2	4	2		69.6	34.8	0.0039				
VILAS	PALMER L	635	LDF	14	7																							1	6	1		32.5	32.5	0.0016					
VILAS	PAPOOSE L	428	LDF	10	5																							0	5										
VILAS	PLUM L	1,033	LDF	19	9																							0	9										
VILAS	RAZORBACK L	362	LDF	9	4																								2	2	2		75.0	37.5	0.0055				
VILAS	REST L	608	LDF	13	6																								3	3	3		99.8	33.3	0.0049				
VILAS	SNIPE L	239	LDF	7	3																								1	2	1		34.3	34.3	0.0042				
VILAS	SPARKLING L	154	LDF	5	2																							0	2										
VILAS	SPIDER L	272	LDF	8	4																							0	4										
VILAS	SQUAW L	785	LDF	16	8																								1	7	1		39.0	39.0	0.0013				
VILAS	STAR L	1,206	LDF	21	10																								3	7	3		115.0	38.3	0.0025				
VILAS	TROUT L	3,816	LDF	27	13																								8	5	8		337.4	42.2	0.0021				
VILAS	UPPER BUCKATABON L	494	LDF	11	5																								0	5									
VILAS	WHITE BIRCH L	112	LDF	4	2																								0	2									
VILAS	WHITE SAND L	728	LDF	15	7																								3	4	3		114.7	38.2	0.0041				
VILAS	WILD RICE L	379	LDF	8	4																								0	4									
VILAS	WILDCAT L	305	LDF	8	4																								0	4									
	Lac du Flambeau sub-total:			1330	608	0	0	0	0	0	1	0	0	0	0	0	8	12	3	7	14	7	17	5	7	5	0	0	11	0	2	99	509	99	3787.6	38.3			

Appendix E. Number of muskellunge harvested nightly on lakes speared by six Wisconsin Chippewa bands during spring spearing 2003.

County	Lake	Area	Tribe	2003 Safe Harvest	2003 Declaration	April													May													Total Harvest	Quota Balance	Number Measured	Total Inches	Average Length	Number Per Acre					
						14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	13												
FOREST	LILY L	211	MLK	6	3																															0	3					
FOREST	RILEY L	213	MLK	6	3																															0	3					
FOREST	ROBERTS L	414	MLK	10	5																														0	5						
FOREST	WABIKON L	594	MLK	13	7																														0	7						
LANGLADE	DEEP WOOD L	72	MLK	3	1																													0	1							
LANGLADE	ENTERPRISE L	502	MLK	12	7																														0	7						
LANGLADE	GREATER BASS L	246	MLK	7	4																														0	4						
LANGLADE	MOCCASIN L	110	MLK	4	2																														0	2						
LANGLADE	SUMMIT L	282	MLK	8	4																														0	4						
LINCOLN	ALEXANDER L	677	MLK	14	8																														0	8						
LINCOLN	JERSEY CITY FL	433	MLK	11	6																														0	6						
LINCOLN	L ALICE	1,369	MLK	22	13																														0	13						
LINCOLN	SPIRIT R FL	1,663	MLK	25	14																														0	14						
MARINETTE	CALDRON FALLS RESERVOIR	1,018	MLK	19	11																														0	11						
OCONTO	ARCHIBALD L	430	MLK	10	5																														0	5						
OCONTO	BOOT L	235	MLK	7	4																														1	3		1	41.3	41.3	0.0043	
ONEIDA	BIG FORK L	690	MLK	14	8																														0	8						
ONEIDA	BIG L	865	MLK	17	10																														0	10						
ONEIDA	BIG STONE L	548	MLK	12	7																														0	7						
ONEIDA	CRESCENT L	612	MLK	13	7																														0	7						
ONEIDA	FOURMILE L	218	MLK	7	4																														0	4						
ONEIDA	FOURTH L	258	MLK	7	4																														0	4						
ONEIDA	INDIAN L	397	MLK	10	5																														0	5						
ONEIDA	LAUREL L	232	MLK	7	4																														0	4						
ONEIDA	LONG L	620	MLK	13	7																														0	7						
ONEIDA	PELICAN L	3,585	MLK	41	24																															24	0		24	956.6	39.9	0.0067
ONEIDA	PLANTING GROUND L	1,012	MLK	18	10																														0	10						
ONEIDA	RHINELANDER FL	1,326	MLK	22	13																														0	13						
ONEIDA	SEVENMILE L	503	MLK	12	7																														0	7						
ONEIDA	SPIRIT L	368	MLK	9	5																														0	5						
ONEIDA	THUNDER L	172	MLK	6	3																														0	3						
ONEIDA	VIRGIN L	276	MLK	8	4																														0	4						
ONEIDA	WHITEFISH L	205	MLK	6	3																														0	3						
VILAS	BIG SAND L	1,408	MLK	23	13																														0	13						
VILAS	CATFISH L	1,012	MLK	18	10																														0	10						
VILAS	KENTUCK L	957	MLK	18	5																														0	5						
VILAS	LAC VIEUX DESERT	4,300	MLK	30	17																														0	17						
VILAS	LONG L	872	MLK	17	10																														1	9		1	43.0	43.0	0.0011	
VILAS	N TWIN L (TWIN L CHAIN)	2,788	MLK	35	20																														10	10		10	402.4	40.2	0.0036	
VILAS	S TWIN L (TWIN L CHAIN)	642	MLK	14	8																														0	8						
	Mole Lake sub-total:			554	305	0	0	0	0	0	0	4	2	10	4	2	3	0	0	0	10	1	0	0	0	0	0	0	0	0	0	0	0	36	269		36	1443.3	40.1			
BAYFIELD	BUSKEY BAY (PIKE L CHAIN)	100	RCF	4	2																													0	2							
BAYFIELD	HART L (PIKE L CHAIN)	259	RCF	7	4																													1	3		1	25.7	25.7	0.0039		
BAYFIELD	L MILLICENT (PIKE L CHAIN)	183	RCF	6	3																													0	3							
BAYFIELD	MIDDLE EAU CLAIRE L	902	RCF	17	10																													2	8		2	69.3	34.7	0.0022		
BAYFIELD	NAMEKAGON L	3,227	RCF	39	11																													0	11							
BAYFIELD	TWIN BEAR L (PIKE L CHAIN)	172	RCF	6	3																													0	3							

Appendix E. Number of muskellunge harvested nightly on lakes speared by six Wisconsin Chippewa bands during spring spearing 2003.

County	Lake	Area	Tribe	2003 Safe Harvest	2003 Declaration	April														May													Total Harvest	Quota Balance	Number Measured	Total Inches	Average Length	Number Per Acre				
						14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	13												
BAYFIELD	UPPER EAU CLAIRE L	1,030	RCF	19	11																																0	11				
DOUGLAS	LOWER EAU CLAIRE L	802	RCF	16	9																																0	9				
	Red Cliff sub-total:			114	53	0	0	0	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	50	3	95.0	31.7		
BARRON	BIG MOON L	191	STC	6	3												1																			1	2	1	41.0	41.0	0.0052	
BARRON	SAND L	322	STC	9	5										1																				1	4	1	36.2	36.2	0.0031		
BURNETT	BIG MCKENZIE L	1,185	STC	20	10																															6	4	6	239.1	39.9	0.0051	
BURNETT	LITTLE YELLOW L	348	STC	9	5	1			2						2																					5	0	5	217.3	43.5	0.0144	
BURNETT	TWENTY-SIX L	230	STC	7	4																															4	0	4	158.6	39.7	0.0174	
BURNETT	YELLOW L	2,287	STC	31	16	2																														3	13	3	140.0	46.7	0.0013	
POLK	BONE L	1,781	STC	27	14																															14	0	14	548.2	39.2	0.0079	
POLK	DEER L	807	STC	16	8																															8	0	8	314.6	39.3	0.0099	
ST CROIX	CEDAR L	1,100	STC	19	10												1																			1	9	1	45.0	45.0	0.0009	
WASHBURN	BASS-PATTERSON L	188	STC	6	3																															0	3					
WASHBURN	L NANCY	772	STC	15	8																															0	8					
WASHBURN	MATTHEWS L	263	STC	7	4																															0	4					
WASHBURN	MIDDLE MCKENZIE L	530	STC	12	6																															1	5	1	53.0	53.0	0.0019	
WASHBURN	SHELL L	2,580	STC	34	17																																13	4	13	516.6	39.7	0.0050
	St. Croix sub-total:			218	113	3	0	0	2	0	0	0	4	3	1	2	16	11	3	1	4	0	2	4	0	0	0	0	1	0					57	56	57	2,309.6	40.5			
	Grand Total:			1,522		3	0	1	2	0	1	4	8	17	7	12	35	14	10	24	21	19	10	13	7	0	0	11	1	2					222	1,300	222	8,635.4	38.9			

Appendix F. Number of muskellunge per inch group taken during spring spearing seasons from 1985-2003.

Inch Group	Number of muskellunge in:																			19 Year Total	Percent of Total
	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003		
13						1														1	0.0%
14																				0	0.0%
15											1									1	0.0%
16			1								1									2	0.0%
17				3				1											1	5	0.1%
18								1												1	0.0%
19				1					1		1									3	0.1%
20			2																	2	0.0%
21												1								1	0.0%
22						1					1	2	1		1					6	0.1%
23		1						1			1			1		1				5	0.1%
24		1							1		2	1								5	0.1%
25	1		1		1	1			2	1	1			1			2		1	12	0.3%
26				1	2	3	1	1	3	1	1		1	1		1	2	1	1	20	0.5%
27			3	3	2	2		1	1	2	1	1	3			1				20	0.5%
28	2		3	1	5	4	5	1	3	3	3	1	3	6	2		1		1	44	1.1%
29	2	2	7	5	3	6	4	8	4	2	2	4	9	7	3	4		4	3	79	1.9%
30	8	3	4	6	6	15	6	5	6	11	3	7	8	9	4	4	5	3	5	118	2.8%
31	6	3	14	9	9	24	12	8	9	14	13	12	7	13	9	8	4	9	5	188	4.5%
32	7	2	15	13	11	18	10	7	11	14	20	4	19	20	13	13	8	3	2	210	5.1%
33	3	6	12	10	8	25	11	18	12	20	14	12	15	25	13	17	13	9	8	251	6.1%
34	8	1	16	10	8	20	20	13	21	17	23	26	23	21	27	24	14	11	14	317	7.6%
35	7	7	12	10	10	26	17	11	10	26	29	23	31	20	20	26	9	17	13	324	7.8%
36	2	4	12	7	6	20	18	18	22	15	22	27	30	18	36	34	22	13	28	354	8.5%
37	8	8	17	11	10	29	20	14	15	16	26	36	31	14	27	35	20	18	14	369	8.9%
38		6	12	9	7	27	11	12	14	16	25	25	25	19	18	35	22	21	18	322	7.8%
39	2	1	10	10	6	16	7	11	10	17	18	19	30	18	21	28	19	21	15	279	6.7%
40	1	2	8	6	5	19	16	11	11	11	15	22	20	24	23	21	9	17	18	259	6.3%
41	1	2	5	9	3	12	4	5	5	10	17	28	19	18	13	15	11	11	19	207	5.0%
42	1	1	4	6	5	6	3	4	8	11	14	17	10	11	10	14	18	10	15	168	4.1%
43	2	2	3	6	3	6	5	4	4	7	16	21	14	6	13	9	9	9	8	147	3.5%
44	2		3	7		5		4	6	4	5	12	7	6	6	13	10	10	13	113	2.7%
45			4	8	2	1	5	1	1	7	8	2	10	2	4	7	12	10	7	91	2.2%
46		1	4	3		2	2		1	8	5	2	6	4	4	4	6	8	3	63	1.5%
47	3		2	1	2	3	1	1	1	1	3	8	2	3	2	3	7	3	3	49	1.2%
48		1	4	1	1	2	3	2	3	5	4	2	5	2	2		4	3	1	45	1.1%
49	1		2	1	1	3	1		2	3	1	3	2	1	2	3	2	3	2	33	0.8%
50	1				1		1		1	1	1		2		1	4	3	3	2	21	0.5%
51				1		1								1	1					4	0.1%
52																1			1	2	0.0%
53		1																	2	3	0.1%
Total Number Measured:	68	55	180	158	117	298	185	162	187	243	297	318	333	271	275	325	233	217	222	4,144	100%
Total Length:	2,407	1,994	6,507	5,805	4,175	10,761	6,725	5,845	6,822	9,034	11,072	12,117	12,521	9,966	10,356	12,338	9,063	8,465	8,635	154,607	
Average Length:	35.4	36.2	36.2	36.7	35.7	36.1	36.4	36.1	36.5	37.2	37.3	38.1	37.6	36.8	37.7	38.0	38.9	39.0	38.9	37.3	
Total Number Speared:	86	55	196	158	118	303	185	165	188	244	299	319	333	271	275	325	233	218	222	4,193	
Percent Measured:	79.1%	100.0%	91.8%	100.0%	99.2%	98.3%	100.0%	98.2%	99.5%	99.6%	99.3%	99.7%	100.0%	100.0%	100.0%	100.0%	100.0%	99.5%	100.0%	98.8%	

Appendix G. Number, average length (inches), and harvest per acre of largemouth and smallmouth bass and northern pike for various lakes during spring spearing 2003.

Tribe	County	Lake	Area	Species	Number Harvested	Number Measured	Total Inches	Average Length	Number Per Acre
LDF	VILAS	LITTLE ST GERMAIN L	980	BAS	1	1	13.3	13.3	0.0010
MLK	FOREST	L METONGA	1991	BAS	1	1	16.0	16.0	0.0005
MLK	OCONTO	BOOT L	235	BAS	1	0			0.0043
Total:			3206		3	2	29.3	14.7	0.0019
RCF	BAYFIELD	DIAMOND L	341	LMB	2	2	35.0	17.5	0.0059
RCF	BAYFIELD	PIKE L CHAIN	714	LMB	1	1	15.1	15.1	0.0014
STC	BARRON	BEAVER DAM L	1112	LMB	1	1	15.7	15.7	0.0009
STC	BARRON	HORSESHOE L	115	LMB	3	3	48.8	16.3	0.0261
STC	BURNETT	BIG MCKENZIE L	1185	LMB	13	13	174.3	13.4	0.0110
STC	BURNETT	DEVILS L	1001	LMB	8	8	110.9	13.9	0.0080
STC	BURNETT	LITTLE YELLOW L	348	LMB	8	8	126.5	15.8	0.0230
STC	BURNETT	ROONEY L	322	LMB	11	11	165.0	15.0	0.0342
STC	BURNETT	SAND L	962	LMB	1	0			0.0010
STC	BURNETT	YELLOW L	2287	LMB	4	4	60.7	15.2	0.0017
STC	POLK	BALSAM L	2054	LMB	2	2	33.1	16.6	0.0010
STC	POLK	BIG BUTTERNUT L	378	LMB	3	3	47.3	15.8	0.0079
STC	POLK	BIG ROUND L	1015	LMB	11	11	170.6	15.5	0.0108
STC	POLK	BONE L	1781	LMB	19	19	299.4	15.8	0.0107
STC	WASHBURN	BASS-PATTERSON L	188	LMB	2	2	27.2	13.6	0.0106
STC	WASHBURN	MIDDLE MCKENZIE L	530	LMB	25	25	358.0	14.3	0.0472
STC	WASHBURN	SHELL L	2580	LMB	44	44	701.6	15.9	0.0171
Total:			16913		158	157	2389.2	15.2	0.0128
RCF	BAYFIELD	PIKE L CHAIN	714	SMB	1	1	11.1	11.1	0.0014
MLK	OCONTO	WHEELER L	293	SMB	1	1	17.0	17.0	0.0034
LDF	ONEIDA	BEARSKIN L	400	SMB	3	3	47.2	15.7	0.0075
MLK	ONEIDA	PELICAN L	3585	SMB	1	1	16.7	16.7	0.0003
LDF	ONEIDA	RAINBOW FL	2035	SMB	1	1	19.9	19.9	0.0005
STC	POLK	WAPOGASSET L	1186	SMB	2	1	17.9	17.9	0.0017
LCO	SAWYER	GRINDSTONE L	3111	SMB	3	3	51.3	17.1	0.0010
LCO	SAWYER	L CHIPPEWA	15300	SMB	3	3	42.7	14.2	0.0002
LCO	SAWYER	ROUND L	3054	SMB	3	3	52.2	17.4	0.0010
MLK	VILAS	LONG L	872	SMB	1	1	14.2	14.2	0.0011
STC	WASHBURN	MIDDLE MCKENZIE L	530	SMB	1	1	12.6	12.6	0.0019
STC	WASHBURN	SHELL L	2580	SMB	15	15	243.1	16.2	0.0058
Total:			33660		35	34	545.9	16.1	0.0021
RCF	BAYFIELD	MIDDLE EAU CLAIRE L	902	NOP	1	1	24.2	24.2	0.0011
STC	BURNETT	BIG MCKENZIE L	1185	NOP	2	2	45.0	22.5	0.0017
STC	BURNETT	YELLOW L	2287	NOP	3	3	103.7	34.6	0.0013
MLK	FOREST	L LUCERNE	1026	NOP	1	1	26.7	26.7	0.0010
MLK	FOREST	L METONGA	1991	NOP	1	0			0.0005
MLK	ONEIDA	PLANTING GROUND L	1012	NOP	1	1	24.2	24.2	0.0010
BRV	SAWYER	CONNORS L	429	NOP	1	1	29.9	29.9	0.0023
LCO	SAWYER	GRINDSTONE L	3111	NOP	1	1	27.0	27.0	0.0003
LCO	SAWYER	L CHIPPEWA	15300	NOP	2	2	60.1	30.1	0.0001
LCO	SAWYER	ROUND L	3054	NOP	2	2	79.2	39.6	0.0007
LDF	VILAS	BIG ST GERMAIN L	1617	NOP	1	1	25.5	25.5	0.0006
LDF	VILAS	WILD RICE L	379	NOP	3	3	83.9	28.0	0.0079
STC	WASHBURN	SHELL L	2580	NOP	3	3	109.7	36.6	0.0012
Total:			34873		22	21	639.1	30.4	0.0015

Appendix H. Number of bass per inch group (largemouth and smallmouth) taken during spring spearing seasons from 1985-2003.

Inch Group	Number of bass in:																			19 Year Total	Percent of Total
	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003		
5																				0	0.0%
6										1										1	0.0%
7					1					2								1		4	0.1%
8			1								1									2	0.1%
9	1	1	2			1	1				1									7	0.2%
10			2	4	1	1	2	1	2	1			1				1		1	17	0.6%
11	1	1	8		7	3	1	5	1	5	2	2	8	5	1	5	2	2	2	61	2.0%
12	2	2	16	7	10	30	11	11	7	32	13	5	10	16	2	8	9	6	14	211	6.8%
13	3	6	43	21	14	35	36	16	18	41	27	30	22	28	11	26	29	15	26	447	14.5%
14		2	33	27	17	47	34	20	42	37	36	35	23	74	29	29	34	41	38	598	19.4%
15	7	8	25	21	17	26	21	21	40	38	34	38	20	51	34	41	41	31	38	552	17.9%
16		12	30	19	19	25	11	13	29	35	27	17	20	32	18	49	24	23	39	442	14.3%
17		3	20	15	11	19	9	5	16	22	18	5	15	33	16	23	10	10	19	269	8.7%
18	1	2	15	9	4	16	9	11	13	17	18	10	16	19	10	21	20	12	9	232	7.5%
19	1		7	11	8	9	6	6	15	11	7	6	6	18	3	13	12	6	6	151	4.9%
20		1	5	7	1	2	2	3	12	9	2		3	5	1	5	3	3		64	2.1%
21	1	1	2	1		1			2	4	1	1	1	1	1	1			1	20	0.6%
22			1	1	1		1		1											5	0.2%
23												1								1	0.0%
24																				0	0.0%
25				1						1				1						3	0.1%
Total No. Measured:	17	39	210	144	111	215	144	112	198	256	185	152	145	283	126	221	186	150	193	3,087	100%
Total Length:	255	602	3,199	2,275	1,694	3,246	2,165	1,708	3,002	3,931	2,881	2,315	2,245	4,440	1,982	3,524	2,913	2,320	2,964	47,662	
Average Length:	15.0	15.4	15.2	15.8	15.3	15.1	15.0	15.3	15.2	15.4	15.6	15.2	15.5	15.7	15.7	15.9	15.7	15.5	15.4	15.4	
Total No. Speared:	21	39	275	167	113	219	147	136	201	261	187	160	145	290	126	221	200	153	196	3,257	
Percent Measured:	81.0%	100.0%	76.4%	86.2%	98.2%	98.2%	98.0%	82.4%	98.5%	98.1%	98.9%	95.0%	100.0%	97.6%	100.0%	100.0%	93.0%	98.0%	98.5%	94.8%	

Appendix I. Number of northern pike per inch group taken during spring spearing seasons from 1985-2003.

Inch Group	Number of northern pike in:																			19 Year Total	Percent of Total
	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003		
10																				0	0.0%
11																				0	0.0%
12		1						1												2	0.4%
13				1																1	0.2%
14														1				1		2	0.4%
15			1			1								1						3	0.5%
16						2														4	0.7%
17	1	1	2	1	1	4	1	1	1	1	1	1			1	1			11	2.0%	
18			1	1	1	4	4	4	1	1	2	1	1	3	2	5	1		20	3.6%	
19			2	2	1	1	4	4		1	2	1	1	3	2	4		2	21	3.8%	
20		2		2	5	1	6	1	1	1	2	2	1	2	1	4		1	32	5.8%	
21			2	10	1	3		1	1	1	2	3	2	3	3	3	1		33	5.9%	
22		2	3	2		4	4	2	2	3	3	2	3	3	5	4		2	44	7.9%	
23	1	2	2	2	2	2	1	3	2	2	6	2	1	4	2	3		3	36	6.5%	
24	1	3	2	2	3	3	6	1	3	2	1	1	1	4	1		2	1	35	6.3%	
25			1	1		2	2	1			3	1	5	6	1	1		2	25	4.5%	
26				5		1	2	2		1	1	4	1	6	1	3	1	1	31	5.6%	
27			1	1	1	2	1	1		1	1	1	2	3		4	4	2	25	4.5%	
28			7	2	1	1	1	1	1	3	1	2	1	5	3	3	3	1	32	5.8%	
29			1	1	1	2	1	1		2	1	5	1	2	3	3	5	1	28	5.0%	
30			1	1			1			1	4	1		1	4	5	1	3	23	4.1%	
31			2	3		1		1	1	1		2		2	5	1			18	3.2%	
32			3	2		1		1	1	2			2	2	2	2	2	3	23	4.1%	
33		1			1	1	2	1		2		1		1	1	2	1	4	19	3.4%	
34							1	1			1	2	3	1	2	2	2	3	19	3.4%	
35							1	1			1		1	3	5		3	1	16	2.9%	
36		1		2		1	1	1		1			1	1	1				10	1.8%	
37				1	1				1				2				4	4	14	2.5%	
38					1				2		1	1	2	1			1		8	1.4%	
39	1		1						1		1	1		1	1		2	1	9	1.6%	
40	1						1				2						2	1	9	1.6%	
41				1					1										2	0.4%	
42									1								1		1	0.2%	
Total No. Measured:	0	12	28	45	14	32	40	18	19	29	28	26	35	61	23	54	32	39	21	556	100%
Total Length:	0	312	724	1,152	334	776	986	453	527	792	744	693	987	1,660	583	1457	979	1189	639	14,985	
Average Length:	NA	26.0	25.9	25.6	23.9	24.2	24.6	25.2	27.7	27.3	26.6	26.7	28.2	27.2	25.3	27.0	30.6	30.5	30.4	27.0	
Total No. Speared:	2	13	41	59	14	34	41	30	19	30	32	30	37	68	29	54	32	40	22	627	
Percent Measured:	0.0%	92.3%	68.3%	76.3%	100.0%	94.1%	97.6%	60.0%	100.0%	96.7%	87.5%	86.7%	94.6%	89.7%	79.3%	100.0%	100.0%	97.5%	95.5%	88.7%	