



**SPEAR FISHERY
OF THE
LAKE SUPERIOR TRIBES OF CHIPPEWA INDIANS
SPRING 1987
Summary Report**

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INTRODUCTION

Harvesting fish by spear is a tradition of the Lake Superior tribes of Chippewa Indians, predating the history of European settlement in North America. In 1837 and 1842, the Chippewa ceded lands in what is now northern Wisconsin to the U.S. Government, retaining the rights to fish, hunt, and gather in the ceded territories. Exercise of these rights was denied by the State of Wisconsin until reaffirmed in a 1983 court decision. Pending resolution of Lac Courte Oreilles Band, et al., v. State of Wisconsin, et al., the Chippewa tribes of Wisconsin have negotiated a series of interim agreements with the Wisconsin Department of Natural Resources (WDNR) to provide tribal members with the opportunity to spear fish in the ceded territory (Figure 1). This report presents data on effort and harvest during the 1987 off-reservation spring spear fishery, the third conducted under interim tribal/state agreements.

The interim agreement was effective from its execution date (March 31, 1987) to May 1, 1987. Within this time period, each tribe designated a 15 day fishing season and gave 48 hours notice to WDNR of the starting date. Regulations governing the harvest are listed in Appendix A.

Total allowable catches (TAC) and tribal quotas (TQ) for walleye were developed for 142 lakes 500 acres and larger (Table 2; Appendix Table B-1). Where population estimates of walleye were available, the spawning stock was multiplied by 35% (acceptable exploitation rate) and then multiplied by 20% (negotiated allocation to tribal harvest). In cases where a population estimate was not available but numbers of walleye in one lake (or set of lakes) was judged by WDNR fish managers to be similar to another lake (or set of lakes) with an estimate, then the lakes were designated as "comparable" and a population estimate was assigned. If there was no population estimate for walleye in a particular lake, or if a lake was not "comparable" to another lake, then the state-wide average of 5.2 fish/acre was used.

Fishermen were subject to bag limits (Appendix A), and in some cases were required to obtain a permit for spearing (Figure 2). Permits were issued at tribal offices and in the field by wardens. The number of permits that could be issued was based on the bag limit and the TQ remaining for that lake. Permits and bag limits allowed for the control and distribution of harvest among tribal members. Once the TQ was reached, the lake was closed to further walleye harvest.

All spearing was monitored by tribal creel clerks (supervised by GLIFWC biologists) and WDNR biologists. During the second half of the spearing season, all monitoring was conducted by tribal creel clerks. After each night of spearing, TQ's were

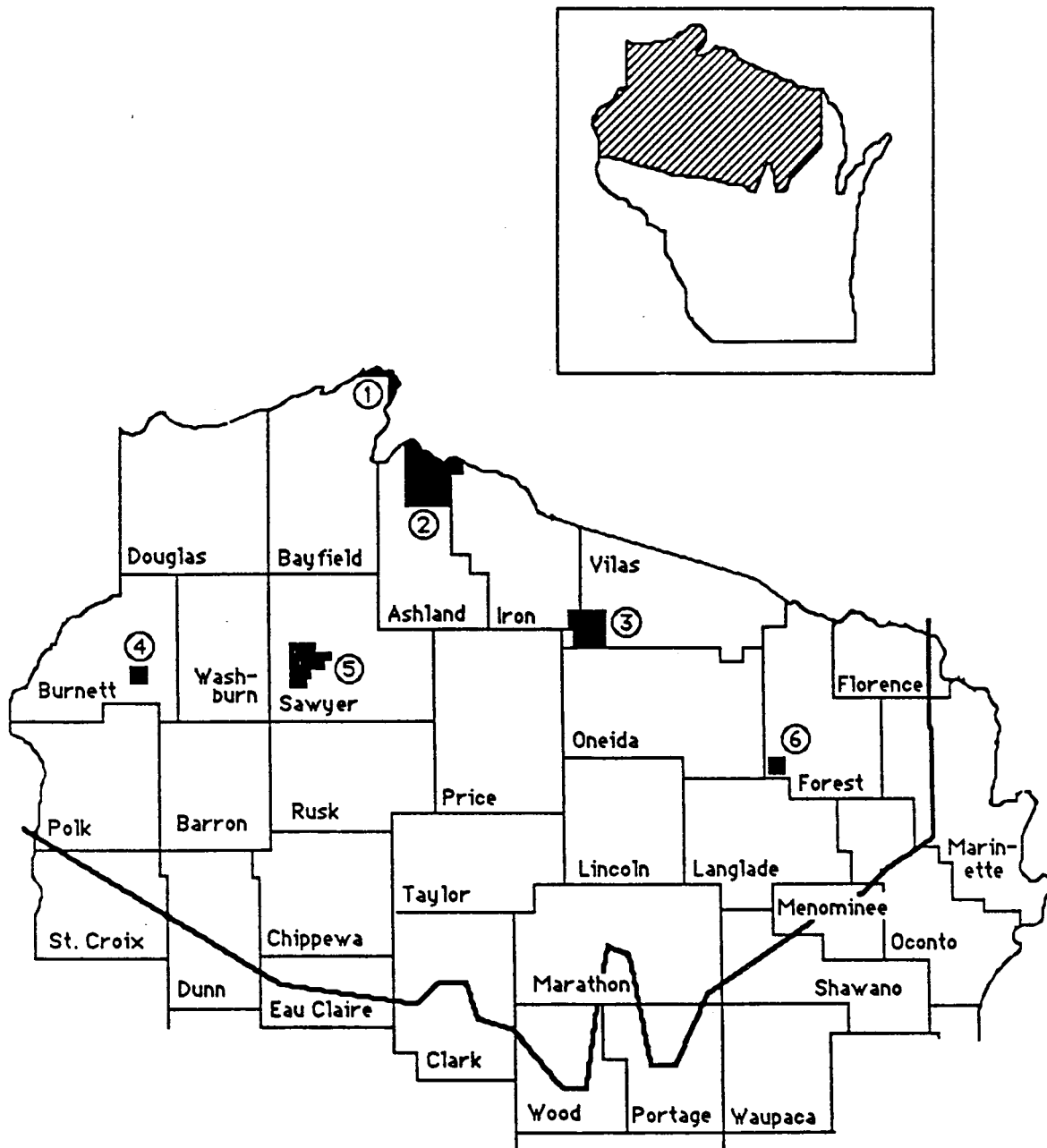


Figure 1. Map depicting the ceded territory in northern Wisconsin. Heavy line indicates approximate ceded territory boundary. Chippewa Nations: ① Red Cliff, ② Bad River, ③ Lac du Flambeau, ④ St. Croix, ⑤ Lac Courte Oreilles, ⑥ Mole Lake

1	2	3	4	5	6	7	8	9	10
31	1987 Off-Reservation Treaty								11
	Spring Spearing Permit								
30							No	2866	12
29	Tribal ID Number _____ of _____ Reservation								13
	Signature of Permittee: _____								
28	Issued by: _____ of _____ Reservation								14
27	Lake: _____ County _____								15
26	Bag Limit	5	10	15	20	25	30	40	50
25	24	23	22	21	20	19	18	17	16

(FRONT)

Walleye Size Limit:
 All walleye must be 20 inches or less except
 One (1) can be between 20 and 24 inches, and one (1)
 can be any size.

Musky Bag Limit:
 One (1) fish per night (any size).

Hours: Dusk to 3:00 a.m. nightly.

For more information call your tribal office or the Great
 Lake Indian Fish and Wildlife Commission (715) 682-6619.

(BACK)

Figure 2. Off-Reservation treaty spearing permit used during spring of 1987.

updated for lakes and data exchanged between WDNR, the appropriate tribe, and GLIFWC.

RESULTS AND DISCUSSION

TOTAL HARVEST

Twelve fish species were harvested during the 1987 spring spear fishery (Table 1). Of the 21,925 fish harvested, 97% were walleye. Muskellunge accounted for 0.9% of the catch, while bass (largemouth and smallmouth combined) represented 1.3% of the total harvest. Six sturgeon were taken in Yellow Lake (Burnett County). Other species that were taken but contributed less than 1% of the total harvest included panfish and sucker.

The harvest of walleye, muskellunge, and bass increased over previous seasons. Harvest of walleye has increased from 2,761 in 1985 and 6,940 in 1986, to 21,321 in 1987 (Kmiecik 1987; unpublished data). The catch of bass increased from 21 in 1985 and 39 in 1986, to 275 in 1987. Muskellunge harvest trends are different in that harvest was greater during 1985 (86) than 1986 (55), increasing to 196 in the 1987 season (Table 1).

WALLEYE HARVEST

Walleye quotas were established for 142 lakes in 21 counties (Table 2). Tribal members harvested 21,321 walleye from 67 lakes in 12 counties. Fishing occurred on three other lakes, but no walleye were taken. This harvest represented 25.7% of the entire quota of 82,832 walleye. (For harvest information by lake, see Appendix Tables B-1 and B-2).

Lengths of 14,224 walleye (67% of the catch) were measured. The average length of all walleye speared was 15.9 inches (Table 3; Figure 3a - 3b). (Consult Appendix Table B-3 for length information by lake). Average length of fish taken by tribe was greatest for St. Croix (17.8 inches), followed by Bad River (17.2 inches), and the Lac Courte Oreilles and Mole Lake tribes (16.3 inches). On average, Lac du Flambeau harvested the smallest walleye (15.5 inches).

The average number of walleye harvested per spearer over the course of the season was 50.9 fish (Table 4). The mean number of walleye taken per spearer was highest for Lac du Flambeau (74.7), and lowest for St. Croix (15.9 fish). The mean number of walleye per spearer for the other tribes was 20 for Bad River, 30 for Lac Courte Oreilles, and 36 for

Table 1. Number of various fish species harvested by tribal spearers during spring 1985, 1986, and 1987.

SPECIES	1985	PERCENT OF TOTAL	1986	PERCENT OF TOTAL	1987	PERCENT OF TOTAL
Walleye	2761	94.75%	6940	98.06%	21321	97.25%
Muskellunge	86	2.95%	55	0.78%	196	0.89%
Largemouth Bass & Smallmouth Bass	21	0.72%	39	0.55%	275	1.25%
Northern Pike	2	0.07%	13	0.18%	41	0.19%
Sturgeon sp.	1	0.03%			6	0.03%
Trout sp.					2	0.00%
Rock Bass	12	0.41%	3	0.04%	1	0.00%
Crappie sp.			9	0.13%	22	0.10%
Bluegill	2	0.07%	2	0.03%	8	0.04%
Yellow Bullhead			1	0.01%	4	0.02%
Bullhead sp.	1	0.03%				
Sucker sp.	27	0.93%	15	0.21%	48	0.22%
Carp	1	0.03%			1	0.00%
TOTAL:	2914	100.00%	7077	100.00%	21925	100.00%

Table 2. Number of lakes 500 acres and larger in 23 counties within the ceded territory, number with walleye quotas, and number speared. Also, total walleye harvested by county.

COUNTY	NUMBER OF LAKES:			WALLEYE:		
	TOTAL	WITH QUOTA	SPEARED	TOTAL QUOTA	NUMBER SPEARED	PERCENT OF QUOTA
ASHLAND	2	0	0	0	0	0.0%
BARRON	8	6	1	1142	83	7.3%
BAYFIELD	5	4	2	2368	438	18.5%
BURNETT	12	6	2	1782	238	13.4%
CHIPPEWA	5	5	0	4790	0	0.0%
DOUGLAS	5	4	1	1238	158	12.8%
DUNN	1	1	0	638	0	0.0%
EAU CLAIRE	3	1	0	314	0	0.0%
FLORENCE	1	1	1	186	141	75.8%
FOREST	8	4	4	1750	1340	76.6%
IRON	4	3	3	7490	6178	82.5%
LANGLADE	4	3	0	392	0	0.0%
LINCOLN	4	4	0	680	0	0.0%
MARATHON	9	1	0	1722	0	0.0%
MARINETTE	2	2	0	176	0	0.0%
ONEIDA	29	27	15	13470	4066	30.2%
POLK	9	6	3	1692	522	30.9%
PRICE	7	6	4	1848	931	50.4%
RUSK	3	3	0	836	0	0.0%
SAWYER	16	15	5	23712	1977	8.3%
TAYLOR	1	0	0	0	0	0.0%
VILAS	48	35	26	12440	5249	42.2%
WASHBURN	7	5	0	4166	0	0.0%
TOTAL:	193	142	67	82832	21321	25.7%

Table 3. Number and average length (inches) of various fish species harvested by tribe during the 1987 spring spearing season.

SPECIES	TRIBE	NUMBER OF FISH	PERCENT OF TOTAL	AVERAGE LENGTH
WALLEYE	BAD RIVER	439	2.06%	17.2
	LAC COURTE OREILLES	1977	9.27%	16.3
	LAC DU FLAMBEAU	15378	72.13%	15.5
	MOLE LAKE	2526	11.85%	16.3
	ST. CROIX	1001	4.69%	17.8
	TOTAL:	21321	100.00%	15.9
MUSKELLUNGE	BAD RIVER	0	0.00%	0.0
	LAC COURTE OREILLES	30	15.31%	37.4
	LAC DU FLAMBEAU	136	69.39%	35.8
	MOLE LAKE	14	7.14%	34.0
	ST. CROIX	16	8.16%	38.4
	TOTAL:	196	100.00%	36.2
NORTHERN PIKE	BAD RIVER	2	4.88%	28.6
	LAC COURTE OREILLES	1	2.44%	30.6
	LAC DU FLAMBEAU	2	4.88%	20.5
	MOLE LAKE	15	36.59%	25.1
	ST. CROIX	21	51.22%	26.5
	TOTAL:	41	100.00%	25.9
BASS*	BAD RIVER	2	0.73%	15.0
	LAC COURTE OREILLES	18	6.55%	15.6
	LAC DU FLAMBEAU	8	2.91%	13.7
	MOLE LAKE	37	13.45%	15.1
	ST. CROIX	210	76.36%	15.3
	TOTAL:	275	100.00%	15.2

*NOTE: Smallmouth and Largemouth bass combined.

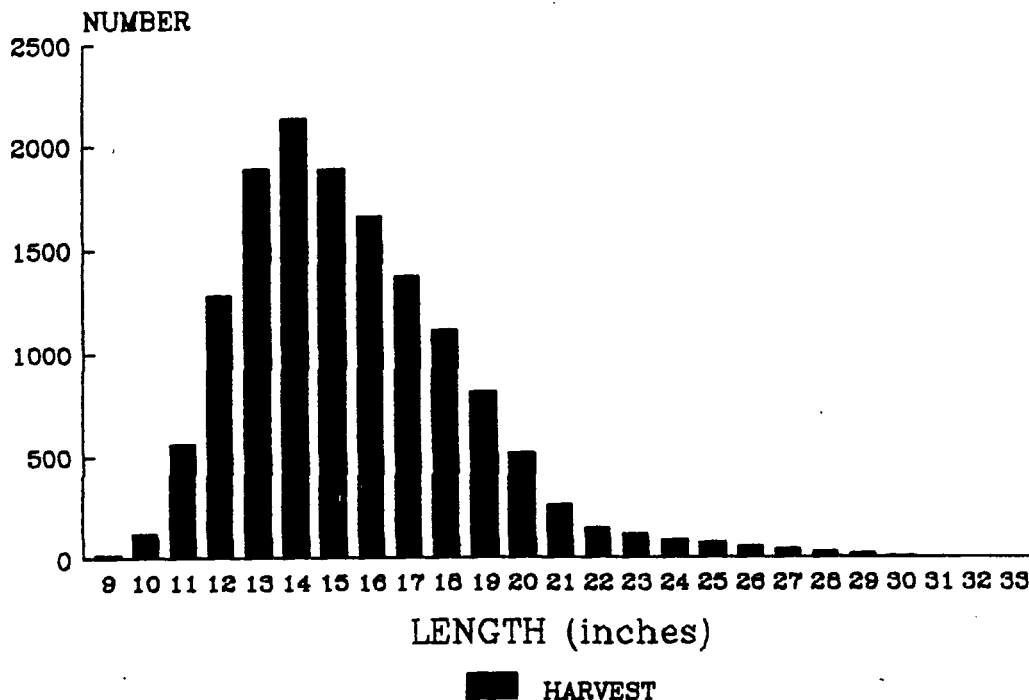
Table 4. Average of fish per spearer, per spearer-night, and per boat-hour by tribal members during the 1987 spring spear fishery. Data corrected for missing boat-hours by subtracting out harvested taken in unknown hours.

SPECIES	TRIBE	NUMBER OF SPEARERS	NUMBER OF SPEARER-NIGHTS	NUMBER OF BOAT-HOURS	NUMBER OF FISH	FISH PER SPEARER	FISH PER SPEARER-NIGHT	FISH PER BOAT-NIGHT
WALLEYE								
	BAD RIVER	22	43	46.3	439	19.95	10.21	8.53
	LAC COURTE OREILLES	58	140	163.0	1977	34.09	14.12	11.92
	LAC DU FLAMBEAU	206	695	975.5	15378	74.65	22.13	15.45
	MOLE LAKE	70	205	252.0	2526	36.09	12.32	8.79
	ST. CROIX	63	181	280.1	1001	15.89	5.53	3.53
	ALL TRIBES	419	1264	1716.9	21321	50.89	16.87	11.98
MUSKELLUNGE								
	BAD RIVER				0	0.00	0.00	0.00
	LAC COURTE OREILLES				30	0.52	0.20	0.17
	LAC DU FLAMBEAU				136	0.66	0.20	0.13
	MOLE LAKE				14	0.20	0.10	0.05
	ST. CROIX				16	0.25	0.10	0.06
	ALL TRIBES				196	0.47	0.20	0.11
NORTHERN PIKE								
	BAD RIVER				2	0.09	0.047	0.000
	LAC COURTE OREILLES				1	0.02	0.007	0.006
	LAC DU FLAMBEAU				2	0.01	0.003	0.002
	MOLE LAKE				15	0.21	0.073	0.038
	ST. CROIX				21	0.33	0.116	0.075
	ALL TRIBES				41	0.10	0.032	0.020
BASS*								
	BAD RIVER				2	0.09	0.05	0.02
	LAC COURTE OREILLES				18	0.31	0.13	0.10
	LAC DU FLAMBEAU				8	0.04	0.01	0.01
	MOLE LAKE				37	0.53	0.18	0.12
	ST. CROIX				210	3.33	1.16	0.72
	ALL TRIBES				275	0.66	0.22	0.15

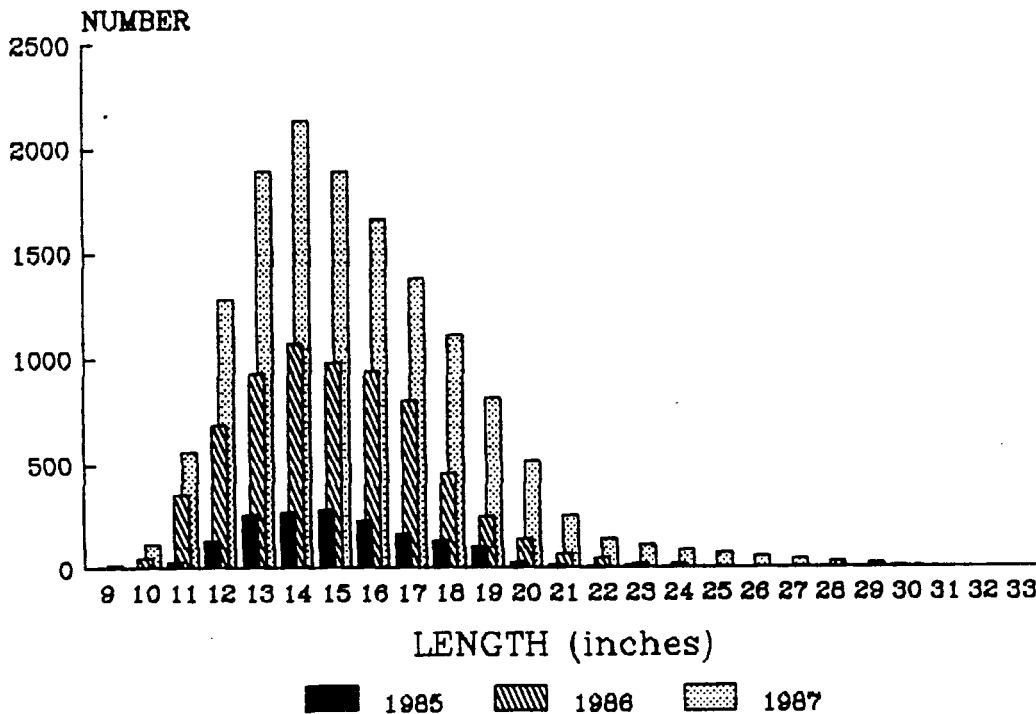
* NOTE: Smallmouth and Largemouth bass combined.

Figure 3a (above) and 3b (below).

WALLEYE LENGTH FREQUENCY 1987 SPRING SPEAR FISHERY



WALLEYE LENGTH FREQUENCY 1985 - 1987 SPRING SPEAR FISHERY



Mole Lake. Catch per effort (walleye per boat-hour) averaged 11.98 for all tribes combined and ranged from 15.45 (Lac du Flambeau) to 3.53 (St. Croix) (Table 4). (Data for catch per boat-hour by lake can be found in Appendix Table B-9).

The majority of speared fish were male (81% of the measured harvest). Females comprised 10% of the harvest while fish of unknown sex accounted for 9%. Average length was 15.4 inches for males (Appendix Table B-4) and 19.9 inches for females (Appendix Table B-5).

Nearly 10% of the walleye measured (1360 fish) were 20 inches and larger (Appendix Table B-3). Forty-two percent of the 20+ inch fish were females while 32% were males. By applying the percent of walleye measured at 20+ inches to the total harvest (21,321), 2,039 walleye were estimated to have been taken at 20 inches and larger (955 females, 645 males, and 439 sex unknown).

MUSKELLUNGE HARVEST

A total of 196 muskellunge were speared from 42 lakes over an eight county area (Table 5; Appendix Table B-6). Lac du Flambeau members took 69% of the total harvest (Table 3). Lac Courte Oreilles ranked second in harvest (15.3%), followed by St. Croix (8.2%) and Mole Lake (7.1%). Bad River members did not spear any muskellunge.

Number of muskellunge per spearer averaged 0.47 for all tribes combined (Table 4) and ranged from 0.66 (Lac du Flambeau) to 0.20 (Mole Lake). Catch per boat-hour averaged 0.11 (Table 4).

The average length of 180 muskellunge was 36.2 inches (Table 6; Figure 4a). Nineteen percent were less than 32 inches in length. This is similar to the average length of 35.4 inches seen in 1985 and 36.2 inches in 1986. The overall mean length of harvest for all seasons combined was 35.9 inches, with 20.8% of the harvest being less than 32.0 inches (Figure 4b).

BASS HARVEST

Bass (both smallmouth and largemouth combined) ranked second in number (275), but only accounted for 1.3% of the total harvest (Table 1). St. Croix members harvested 76% of the bass, while Mole Lake members took 13.5% of the total (Table 3). The average catch per spearer for all tribes combined was 0.22. The mean catch per boat-hour was 0.15 and ranged from 0.72 (St. Croix) to 0.01 (Lac du Flambeau) (Table 4).

Table 5. Harvest of muskellunge by Tribe, county, and lake during the 1987 spring spearing fishery.

TRIBE	COUNTY	LAKE	NUMBER
LAC COURTE OREILLES	Sawyer	Big Lac Courte Oreilles	5
	Sawyer	Chippewa Flowage	3
	Sawyer	Grindstone	11
	Sawyer	Round	10
	Sawyer	Sand	1
		sub-total:	30
LAC DU FLAMBEAU	Iron	Flambeau Flowage	5
	Iron	Gile Flowage	1
	Oneida	Buckskin	2
	Oneida	Clear	4
	Oneida	Katherine	2
	Oneida	Minocqua	6
	Oneida	Pickerel	2
	Oneida	Shishebogama	4
	Oneida	Squaw	1
	Oneida	Squirrel	7
	Oneida	Tomahawk	4
	Oneida	Two Sisters	6
	Price	Butternut	5
	Price	Pike	3
	Price	Round	3
	Vilas	Ballard	2
	Vilas	Big Arbor Vitae	18
	Vilas	Big Muskellunge	11
	Vilas	Big (S-24)	3
	Vilas	Boulder	3
	Vilas	Catfish/Cranberry	9
	Vilas	Clear	3
	Vilas	Crab	5
	Vilas	Harris	3
	Vilas	Island	3
	Vilas	Laura	6
	Vilas	Little Arbor Vitae	3
Vilas	North Twin	3	
Vilas	Presque Isle	3	
Vilas	South Twin	1	
Vilas	White Sand	5	
		sub-total:	136
MOLE LAKE	Forest	Kentuck	6
	Oneida	Pelican	2
	Oneida	Planting Ground	2
	Vilas	Lac Vieux Desert	4
		sub-total:	14
ST. CROIX	Burnett	Yellow	13
	Polk	Round	3
		sub-total:	16
TOTAL:	8	42	196

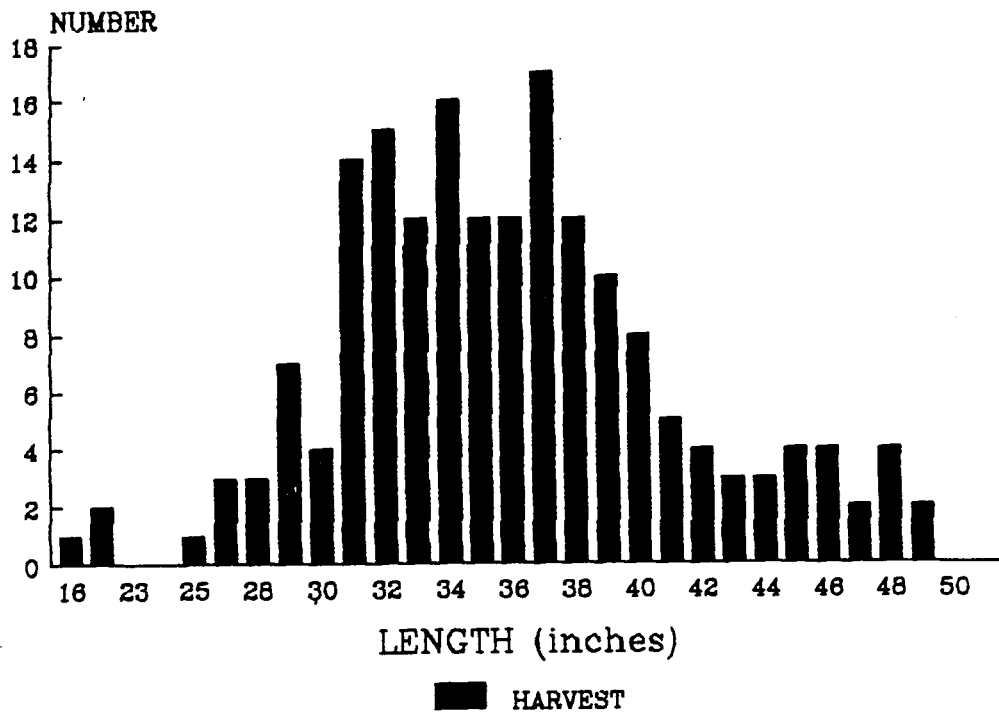
Table 6. Average and range of lengths (inches) of fish measured (N = sample size) during the 1985 - 1987 spring spear fisheries.

SPECIES	YEAR	N	AVERAGE LENGTH	RANGE (INCHES)
Walleye	1985	1622	17.3	9.2 - 33.0
	1986	6842	15.5	6.5 - 27.0
	1987	14224	15.9	9.0 - 31.0
Muskeellunge	1985	68	35.4	25.0 - 50.0
	1986	55	36.2	23.0 - 52.0
	1987	180	36.2	16.0 - 49.0
Northern Pike	1985		Not Available	
	1986	13	24.0	12.6 - 40.5
	1987	28	25.9	15.4 - 32.5
Bass sp. (1)	1985		Not Available	
	1986	39	15.3	9.0 - 21.0
	1987	210	15.2	8.4 - 22.0

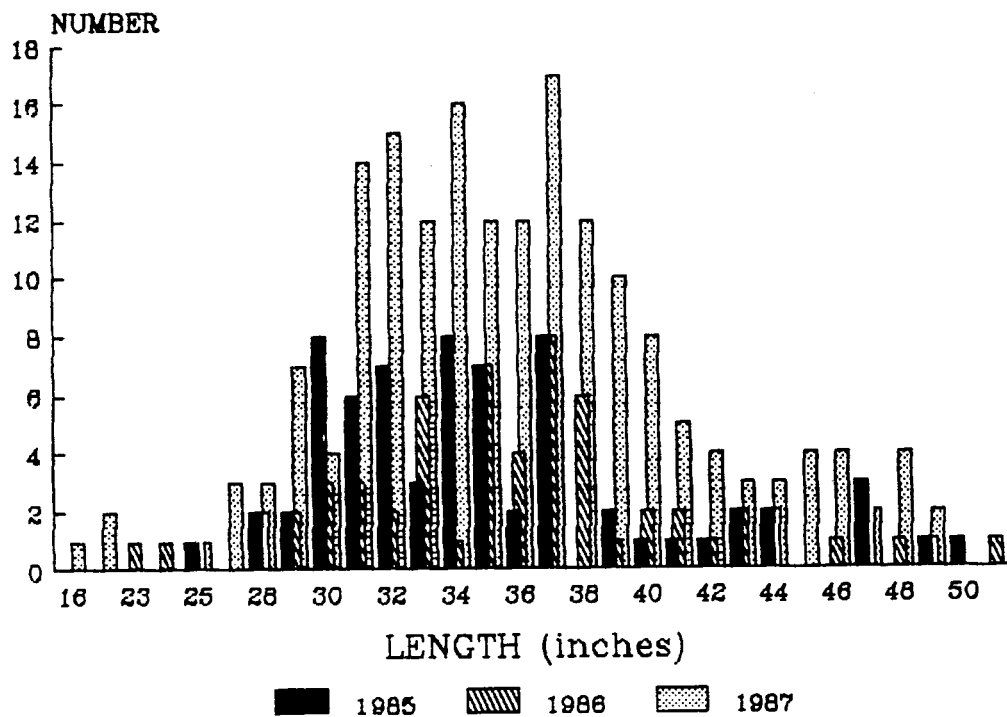
(1) = Smallmouth and Largemouth Bass combined.

Figure 4a (top) and 4b (bottom).

MUSKELLUNGE LENGTH FREQUENCY 1987 SPRING SPEAR FISHERY



MUSKELLUNGE LENGTH FREQUENCY 1985-1987 SPRING SPEAR FISHERY



The average length of bass harvested by all tribes combined was 15.2 inches, and ranged between 13.7 (Lac du Flambeau) and 15.6 inches (Lac Courte Oreilles) (Table 3; Figure 5).

The actual number of largemouth and smallmouth bass harvested could not be determined because in most cases both species were reported as "bass". Out of 275 bass harvested, two (2) were classified as largemouth, 23 as smallmouth, and 250 not classified. However, the majority of bass (76% or 210 fish) were harvested in Balsam Lake, Polk County, which survey records indicate contains only largemouth bass.

NORTHERN PIKE HARVEST

One-hundred (100) northern pike were harvested during the 1987 spring spear fishery. The mean length of harvest for all tribes combined was 25.9 inches (Table 3; Figure 6).

As was the case with bass, St. Croix accounted for 51.2% of the total harvest and Mole Lake ranked second with 36.7%. Catch rates per spearer averaged 0.10 for all tribes combined, and the mean catch per boat-hour was 0.02 (Table 4).

TOTAL EFFORT

Effort in the spring spear fishery can be gauged in three ways: by the total number of spearers participating in the fishery, by the number of spearer-nights, or by the number of boat-hours.

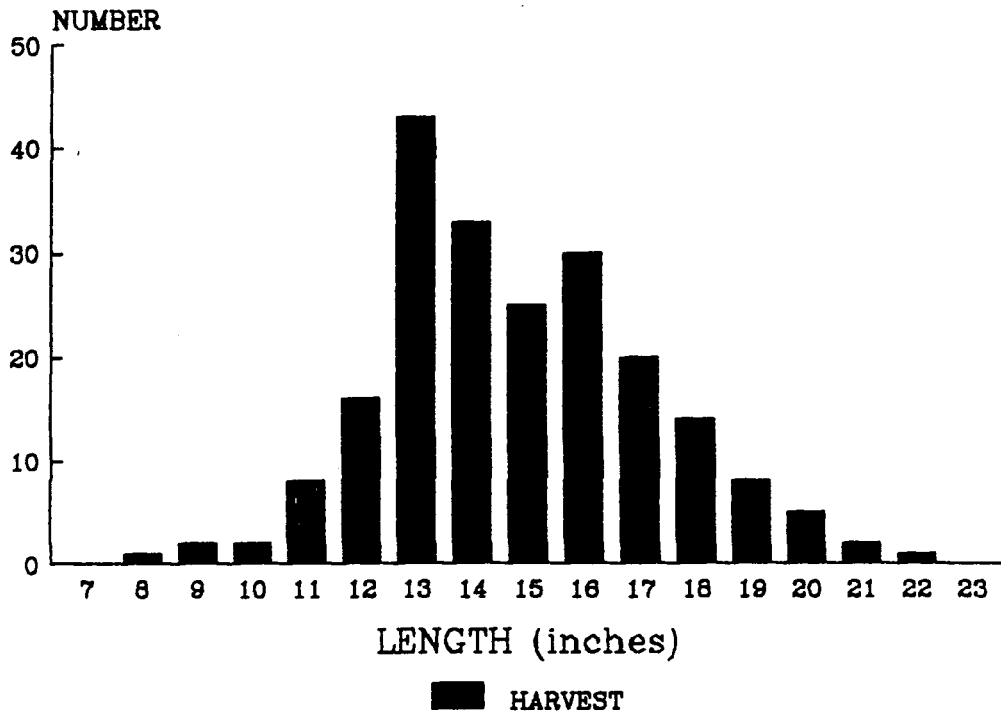
A total of 419 tribal spearers participated in the 1987 fishery (Table 7). The Lac du Flambeau tribe contributed the greatest number of spearers (206) and Bad River produced the least (22), accounting for 49% and 5% of the total effort respectively. The number of spearers at Lac Courte Oreilles, Mole Lake, and St. Croix were similar (58 - 70 members).

The majority of tribal members (310 persons or 74% of the total) speared three nights or less (Table 7). Sixty-one members (14.6% of the total) speared 4 - 6 nights, 38 persons speared 7 - 9 nights (9%), and 10 persons speared 10 or more nights (2.4%).

The total number of spearer-nights (number of spearers times number of nights fished per spearer) was 1264 (Table 8; Appendix Table B-7). Members fishing 1 - 3 nights accounted for 40% of the effort. Percentages of spearer-night effort for members fishing more than three nights were: 4 - 6 nights

Figure 5 (above) and 6 (below).

BASS LENGTH FREQUENCY 1987 SPRING SPEAR FISHERY



NORTHERN PIKE LENGTH FREQUENCY 1987 SPRING SPEAR FISHERY

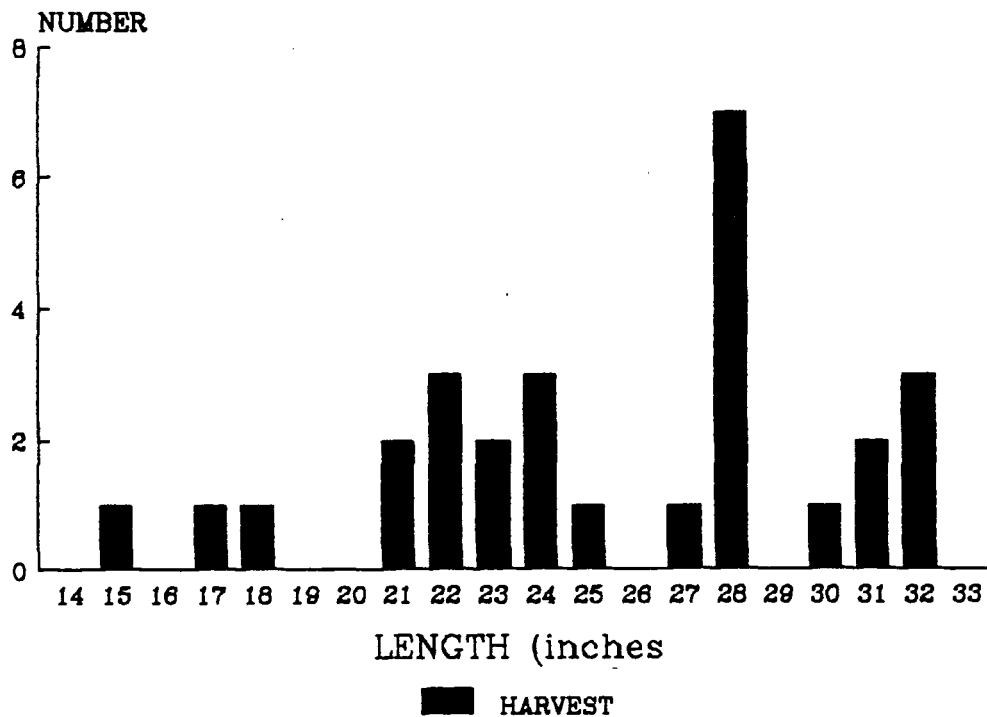


Table 7. Number of tribal members from five Chippewa bands that speared one or more nights during the 1987 spring spear fishery.

NUMBER OF NIGHTS	BAD RIVER	LCO	LDF	MOLE LAKE	ST CROIX	TOTAL	% OF TOTAL	CUMULATIVE PERCENT
1	14	30	90	30	27	191	45.6%	45.6%
2	3	12	33	12	15	75	17.9%	63.5%
3	3	8	21	8	4	44	10.5%	74.0%
4	2	1	7	5	3	18	4.3%	78.3%
5		2	14	4	2	22	5.3%	83.5%
6		1	10	5	5	21	5.0%	88.5%
7		2	8	4	5	19	4.5%	93.1%
8		1	11	1		13	3.1%	96.2%
9		1	3	1	1	6	1.4%	97.6%
10			3		1	4	1.0%	98.6%
11			2			2	0.5%	99.0%
12			1			1	0.2%	99.3%
13			1			1	0.2%	99.5%
14			1			1	0.2%	99.8%
15			1			1	0.2%	100.0%
TOTAL:	22	58	206	70	63	419		
PERCENT:	5.3%	13.8%	49.2%	16.7%	15.0%			

Table 8. Number of spearer-nights (number of nights x number of spears) for five Chippewa bands that speared during the 1987 spring spear fishery.

NUMBER OF NIGHTS	BAD RIVER	LCO	LDF	MOLE LAKE	ST CROIX	TOTAL	% OF TOTAL	CUMULATIVE PERCENT
1	14	30	90	30	27	191	16.1%	16.1%
2	6	24	66	24	30	150	12.6%	28.7%
3	9	24	63	24	12	132	11.1%	39.8%
4	8	4	28	20	12	72	6.4%	45.9%
5		10	70	20	10	110	9.2%	55.1%
6		6	60	30	30	126	10.5%	65.6%
7		14	56	28	35	133	11.2%	76.8%
8		8	88	8		104	8.8%	85.6%
9		9	27	9	9	54	4.5%	90.1%
10			30		10	40	3.4%	93.5%
11			22			22	1.9%	95.4%
12			12			12	1.0%	96.4%
13			13			13	1.1%	97.5%
14			14			14	1.2%	98.7%
15			15			15	1.3%	100.0%
TOTAL:*	43	140	695	205	181	1264		
PERCENT:	3.4%	11.1%	55.0%	16.2%	14.3%			

* Totals include spears not identified by name or tribal number (6 each at Bad River, Mole Lake, and St. Croix, 2 at LCO and 40 at LDF). Totals also include persons who speared on two lakes in a single night or who received, on the same night, two permits for a lake (1 at LDF, 6 at Mole Lake, and 9 at LCO).

= 26%, 7 - 9 nights = 24%, and 10 or more nights = 10%.

A total of 1717 boat-hours of effort was recorded for the five tribes combined (Appendix Table B-8). Lac du Flambeau accounted for the highest boat-hour effort (56.8% of the total), while Bad River had the lowest (2.7%). Intermediate ranges of effort for the other three tribes were: Lac Courte Oreilles (9.5%), St. Croix (16.3%), and Mole Lake (14.7%). These statistics are slightly biased by the fact that most all boat-hour effort was recorded for St. Croix, while some effort was missing from the other four tribes.

PATTERNS OF HARVEST AND EFFICIENCY

Lac du Flambeau members harvested the majority of walleye, taking 72% of the total (Table 3). Mole Lake ranked second (12%), Lac Courte Oreilles third (9%), St. Croix fourth (5%) and Bad River fifth (2%). According to the number of walleye speared per spearer-night, this ranking changed slightly with Lac Courte Oreilles ranking second and Mole Lake third (Table 4).

Efficiency was determined by calculating the number of walleye harvested per boat-hour (after correcting total harvest for missing boat-hour data). The ranking remained the same for walleye per spearer night, with Lac du Flambeau first, Lac Courte Oreilles second, Mole Lake third, St. Croix fourth and Bad River fifth (Table 4; Appendix Table B-9).

Lac du Flambeau also took the majority of muskellunge harvested, both in numbers and number per spearer. Lac Courte Oreilles ranked second, St. Croix third and Mole Lake fourth. Bad River did not harvest any muskellunge. According to the number of muskellunge harvested per spearer-night, Lac Courte Oreilles (0.2) and Lac du Flambeau (0.2) both ranked first, while Mole Lake (0.1) and St. Croix (0.1) both ranked second (Table 4). However, Lac Courte Oreilles ranked first in efficiency (0.17 muskellunge per boat-hour), Lac du Flambeau second (0.13), St. Croix third (0.06) and Mole Lake fourth (0.05).

St. Croix harvested the majority of bass, both in numbers and in number per spearer (Table 4). Mole Lake ranked second, Lac Courte Oreilles third, Bad River fourth and Lac du Flambeau fifth. These rankings did not change by spearer-night or boat-hour.

In like manner, St. Croix ranked first in northern pike harvest and number per spearer, while Mole Lake was second, Bad River third, Lac Courte Oreilles fourth and Lac du Flambeau fifth (Table 4). This ranking did not change by spearer-night but northern pike harvested per boat-hour

indicated a change in efficiency with Lac Courte Oreilles ranking third, Lac du Flambeau fourth, and Bad River fifth.

These trends indicate that members of all tribes predominantly target walleye and will take muskellunge if available. While members of all tribes harvested northern pike and bass, the rankings may be an indicator of availability more so than preferences.

CONCLUSION

The 1987 spring spear fishery was successfully conducted within the guidelines of the interim agreement. While nearly 100% of the walleye quota was obtained on several lakes, the quota was only exceeded in one lake (by 20 fish). This occurred at Grindstone Lake, Sawyer County, and resulted from a misplaced survey sheet which was not discovered until after the season had ended and therefore this harvest of 20 walleye was not figured into the adjusted daily quota. Overall, the success of the system in maintaining harvest within the allocated quota was a direct result of the permit and monitoring systems, and reflects the ability to control the spear fishery harvest within pre-determined limits.

The concept of "comparable" lakes is useful for management of the spring spear fishery, but should be based on an objective system for classifying lakes and assigning population estimates. Subjective assignment of "comparable" status, as done in 1986 and 1987, has not been effective. For example, the 1987 walleye quota for Balsam Lake, Polk County, was based on 4.3 walleye/acre which was an average of Red Cedar Lake, Barron County (4.8 /acre), Shell Lake, Washburn County (4.5 /acre), and Big McKenzie Lake, Burnett County (3.7 /acre). WDNR fishery personnel have recently shown that the population estimate is 1.9 walleye/acre, based on a population estimate derived after the spearing season (Moody 1988).

ACKNOWLEDGMENTS

The authors wish to thank the numerous tribal creel clerks from Bad River, Lac Courte Oreilles, Lac du Flambeau, Mole Lake, and St. Croix who conducted the monitoring and issued spearing permits. Gratitude goes to GLIFWC, tribal, and DNR game wardens for enforcement of regulations and to the many law enforcement personnel who enabled the fishery to be conducted safely. Appreciation is also given to all tribal members who participated in the fishery and patiently supported the monitoring program.

REFERENCES CITED

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- Moody, R.C. 1988. Assessment of the Native American spear fishery in Northern Wisconsin. Wisconsin Department of Natural Resources, Spooner, Wisconsin.

APPENDIX A

1987 SPRING SPEARING REGULATIONS

This is a summary of tribal fishing regulations for the 1987 spring spearing season. If you have questions contact your tribal office or the Great Lakes Indian Fish and Wildlife Commission (715-682-6619)

Season: Each tribe can spear for 15 consecutive days. The season must end by 3:00 A.M. on May 1. Check with your Conservation Department to find out when your tribe's season begins.

Nightly Hours: Dusk to 3 A.M.

Lake Selection: Up to 7 lakes can be selected by your tribe each night. All lakes that are 500 acres and larger, and that have a walleye quota, can be selected. Only four lakes can be selected per night in Oneida, Vilas, Langlade, Forest and Iron Counties. You may only spear on lakes selected by your tribe, or by another tribe, for that night.

Landings: One landing per lake, except on lakes 5000 acres and larger, where two public access sites may be used. Landings designated by tribe must be used.

Bag and Size Limits:

<u>Species</u>	<u>Bag Limit</u>	<u>Size Limit</u>
Lake Sturgeon	1 per person per season Sturgeon must be tagged	Any size
Bass	10 per night	Any size
Lake Trout	4 per night	Any size
Muskellunge	1 per night	Any size
Walleye	Variable. Check with your conservation de- partment or task force representative for in- formation. The bag limit can vary each night on each lake.	All fish must be 20" or less, except 1 can be between 20- 24" and one can be any size.

Permits: A permit may be needed for a lake. Check with your conservation department or task force representative to find out if a permit is required for the lake you plan to spear. Permits can be picked up during the day at the conservation department or tribal headquarters. Permits will be issued on a "first come, first served" basis. At night, if permits are available, they will be issued at the designated boat landing. If you plan to spear on a lake selected by another tribe, be sure to find out if a permit is required by that tribe.

Closed Areas:

1. All rivers and streams.
2. Lakes where the tribal quota has been reached.
3. A lake not selected by your tribe or another tribe.
4. The area within 50 yards of a DNR or tribal assessment net or its leads.
5. All fish refuges. Three lakes contain refuges: Trilby (Oneida Co), Gile Flowage (Iron Co), Turtle-Flambeau Flowage (Iron Co). Check with your conservation department for the location of these refuges.

Experimental Lakes: Special restrictions will apply to lakes where DNR is conducting fish management experiments. Check with your conservation department for a list of these lakes.

Tribal I.D.: I.D.'s must be carried and presented upon request to any state law enforcement officer or biologist.

Spearing: Spears must have a minimum of three barbed tines which are a minimum of $4\frac{1}{2}$ inches long.

Seining: Seining may be permitted on 1 lake per night. Your tribe must select and identify the lake to be seined; this lake cannot be used for spearing. Only one seine may be used on the lake per night, and seines must have a mesh size (stretch measure) of 2" or less.

Dip Netting: Dip nets may be used on all lakes selected for spearing.

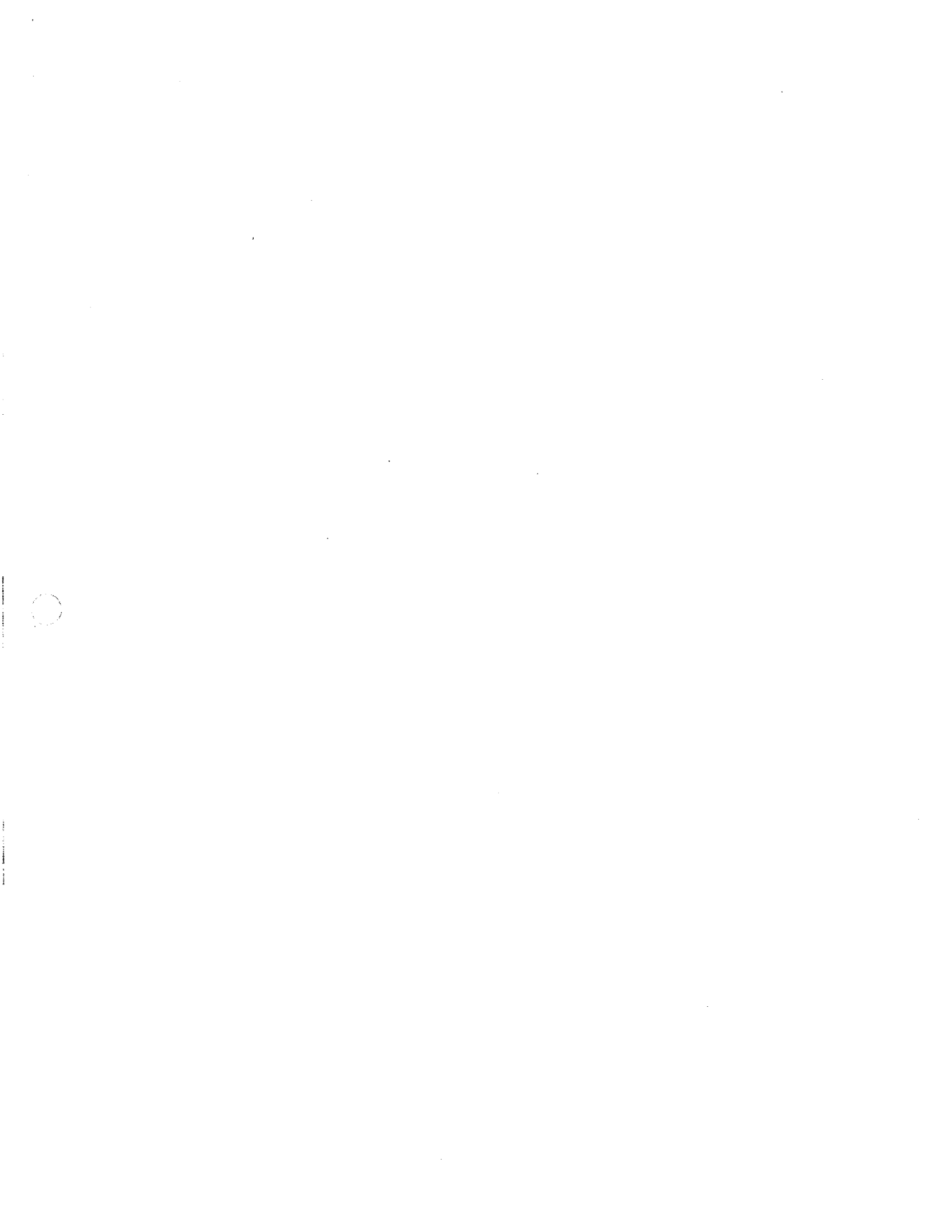
Non-Members: Tribal fishers may not share gear or fish with an individual who is not a tribal member except that immediate family or household members may assist in the operation of the boat.

Sale of Fish: Prohibited except that fish may be sold, traded, or bartered among tribal members.

Creel Surveys: Surveys will be conducted on all speared lakes each night. All walleye will be counted and up to 200 will be measured on each lake per night.

IMPORTANT: The status of a lake can change from night to night: whether it is open, whether a permit is required, what the bag limit is. Make sure you have current information.

APPENDIX B



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Table 1. Number of walleye allocated for spearing in 1987, number speared, balance of quota, and percent of quota harvested in ceded territory lakes 500 acres and larger.

LAKE	AREA IN ACRES	TRIBAL QUOTA (20% OF TAC)	NUMBER SPEARED	BALANCE OF QUOTA: # NOT HARVESTED	% OF QUOTA HARVESTED
** COUNTY ASHLAND					
DAY L	625	0	0	0	0.0
KAKAGON SLOUGH	766	0	0	0	0.0
** Subtotal **		0	0	0	
** COUNTY BARRON					
BEAR L	1358	86	0	86	0.0
BEAVER DAM L	1112	140	83	57	59.3
L CHETEK	770	98	0	98	0.0
MUD L	577	0	0	0	0.0
POKEGAMA L	506	50	0	50	0.0
PRAIRIE L	1534	150	0	150	0.0
RED CEDAR L	1041	618	0	618	0.0
RICE L	939	0	0	0	0.0
** Subtotal **		1142	83	1059	
** COUNTY BAYFIELD					
L OWEN	1323	482	419	63	86.9
MIDDLE EAU CLAIRE L	906	330	0	330	0.0
NAMOKAGON L	3227	1174	19	1155	1.6
TOTAGATIC L	537	0	0	0	0.0
UPPER EAU CLAIRE L	1030	374	0	374	0.0
** Subtotal **		2368	438	1930	
** COUNTY BURNETT					
BIG MCKENZIE L	1185	282	0	282	0.0
BIG SAND L	1400	0	0	0	0.0
BIRCH ISLAND L	838	0	0	0	0.0
DEVILS L	1001	294	0	294	0.0
MIDDLE MCKENZIE L	530	130	0	130	0.0
MUD HEN L	563	0	0	0	0.0
SAND L	962	140	138	10	93.2
SPIRIT L	593	0	0	0	0.0
UPPER CLAM L	1207	440	0	440	0.0
WEBB L	759	0	0	0	0.0
WOOD L	521	0	0	0	0.0
YELLOW L	2287	400	100	300	20.0
** Subtotal **		1782	238	1544	
** COUNTY CHIPPEWA					
CORNELL FL	836	304	0	304	0.0
HOLCOMBE FL	3890	1416	0	1416	0.0
L WISSOTA	6300	2294	0	2294	0.0
LONG L	1060	386	0	386	0.0
OLD ABE L	1072	390	0	390	0.0
** Subtotal **		4790	0	4790	

Table 1. (cont.)

LAKE	AREA IN ACRES	TRIBAL QUOTA (20% OF TAC)	NUMBER SPEARED	BALANCE OF QUOTA: # NOT HARVESTED	% OF QUOTA HARVESTED
** COUNTY DOUGLAS					
L NEBAGAMON	914	332	0	332	0.0
LOWER EAU CLAIRE L	882	292	0	292	0.0
ST CROIX FL	1913	0	0	0	0.0
UPPER ST CROIX L	855	312	0	312	0.0
WHITEFISH L (BARDON)	832	302	158	144	52.3
** Subtotal **		1238	158	1080	
** COUNTY DUNN					
TAINTER L	1752	638	0	638	0.0
** Subtotal **		638	0	638	
** COUNTY EAU CLAIRE					
ALTOONA L	840	0	0	0	0.0
DELLS POND	739	0	0	0	0.0
L EAU CLAIRE	860	314	0	314	0.0
** Subtotal **		314	0	314	
** COUNTY FLORENCE					
HALSEY L	512	186	141	45	75.8
** Subtotal **		186	141	45	
** COUNTY FOREST					
BUTTERNUT L	1292	552	454	98	82.2
FRANKLIN L	888	324	388	16	95.1
HILES MILLPOND	713	0	0	0	0.0
L LUCERNE	1885	0	0	0	0.0
L METONGA	1991	710	488	222	68.7
LITTLE RICE L	1219	0	0	0	0.0
PINE L	1670	164	90	74	54.9
WABIKON L	594	0	0	0	0.0
** Subtotal **		1758	1340	410	
** COUNTY IRON					
BIG PINE L	632	0	0	0	0.0
BILE FL	3384	1232	484	828	32.8
TRUDE L	781	284	33	251	11.6
TURTLE-FLAMBEAU FL	13545	5974	5741	233	96.1
** Subtotal **		7490	6178	1312	
** COUNTY LANSLADE					
ENTERPRISE L	585	182	0	182	0.0
PICKEREL L	1299	0	0	0	0.0
ROLLING STONE L	672	14	0	14	0.0
UPPER POST L	757	276	0	276	0.0

Table 1. (cont.)

LAKE	AREA IN ACRES	TRIBAL QUOTA (20% OF TAC)	NUMBER SPEARED	BALANCE OF QUOTA: # NOT HARVESTED	% OF QUOTA HARVESTED
** Subtotal **		392	0	392	
** COUNTY LINCOLN					
ALEXANDER L	677	246	0	246	0.0
L ALICE	1369	58	0	58	0.0
L MOHAWKIN	1910	254	0	254	0.0
SPIRIT R FL	1239	122	0	122	0.0
** Subtotal **		680	0	680	
** COUNTY MARATHON					
BERKMAN FL	1100	0	0	0	0.0
BIG EAU PLEINE RESER	6830	1722	0	1722	0.0
HONEY ISLAND FLOWAGE	552	0	0	0	0.0
L MAUSAU	1918	0	0	0	0.0
MAIN FL	620	0	0	0	0.0
MCWILLAN WLA RESERV	690	0	0	0	0.0
N HONEY ISLAND FL	707	0	0	0	0.0
S RICE L	1040	0	0	0	0.0
TOWNLINE RESERVOIR	675	0	0	0	0.0
** Subtotal **		1722	0	1722	
** COUNTY MARINETTE					
CALDRON FALLS RESERV	1010	72	0	72	0.0
HIGH FALLS RESERVOIR	1498	104	0	104	0.0
** Subtotal **		176	0	176	
** COUNTY ONEIDA					
BIG FORK L	690	430	0	430	0.0
BIG L	865	538	0	538	0.0
BIG STONE L	540	342	0	342	0.0
BUCKSKIN L	634	230	5	225	2.2
CLEAR L	046	300	263	45	85.4
COLUMBUS L	670	244	0	244	0.0
CRESCENT L	612	382	0	382	0.0
DAM L	744	270	34	236	12.6
KATHERINE L	590	214	150	64	70.1
KAWAGUESAGA L	670	418	303	115	72.5
L NOKOMIS	2433	704	0	704	0.0
LONG L	620	386	0	386	0.0
MINDOGUA L	1360	840	807	41	95.2
PELICAN L	3585	1154	469	685	40.6
PICKEREL L	736	236	35	201	14.8
PLANTING GROUND L	1012	630	45	585	7.1
RAINBOW FL	2035	656	0	656	0.0
RHINELANDER FL	1326	426	0	426	0.0
RICE R FL	920	296	0	296	0.0
SAND L	540	196	0	196	0.0
SEVENMILE L	503	184	0	184	0.0

Table 1. (cont.)

LAKE	AREA IN ACRES	TRIBAL QUOTA (20% OF TAC)	NUMBER SPEARED	BALANCE OF QUOTA: * NOT HARVESTED	% OF QUOTA HARVESTED
SHISHEBOGAMA L	716	260	22	238	8.5
SQUAW L	785	252	68	184	27.0
SQUIRREL L	1352	786	687	99	87.4
SUGAR CAMP L	545	0	0	0	0.0
THUNDER L	1768	0	0	0	0.0
TOMAHAWK L	3392	878	802	76	91.3
TWO SISTERS L	705	252	236	16	93.7
WILLOW FL	5135	1870	140	1730	7.5
** Subtotal **		13470	4066	9404	
** COUNTY POLK					
APPLE RIVER FL	639	0	0	0	0.0
BALSAM L	2054	618	475	143	76.9
BIG ROUND L	1015	100	43	57	43.0
BONE L	1781	0	0	0	0.0
CEDAR L	1107	402	0	402	0.0
DEER L	807	0	0	0	0.0
HALF MOON L	579	174	4	170	2.3
INDIANHEAD FL	776	282	0	282	0.0
MAPOGASSEST L	1186	116	0	116	0.0
** Subtotal **		1692	522	1170	
** COUNTY PRICE					
BUTTERNUT L	1006	324	133	191	41.0
CRANBERRY L	512	0	0	0	0.0
LAC SAULT DORE	561	100	0	100	0.0
MUSSER L	563	182	0	182	0.0
PIKE L	806	530	470	60	88.7
ROUND L	726	356	300	56	84.3
SOLBERG L	859	276	20	240	10.1
** Subtotal **		1840	931	917	
** COUNTY RUSH					
DAIRYLAND RESERVOIR	1745	636	0	636	0.0
ISLAND L	526	192	0	192	0.0
POTATO L	534	0	0	0	0.0
** Subtotal **		836	0	836	
** COUNTY SAWYER					
CHIPPEWA FL	15300	15241	627	14614	4.1
GRINDSTONE L	3111	299	319	-20	106.7
L CHETAC	1920	174	0	174	0.0
L WINTER	676	246	0	246	0.0
LAC COURTE OREILLES	5039	184	67	117	36.4
LOST LAND L	1304	410	0	410	0.0
MOOSE L	1670	224	0	224	0.0
NELSON L	2503	3660	0	3660	0.0
ROUND L	3054	1112	961	151	86.4

Table 1. (cont.)

LAKE	AREA IN ACRES	TRIBAL QUOTA (20% OF TAC)	NUMBER SPEARED	BALANCE OF QUOTA: # NOT HARVESTED	% OF QUOTA HARVESTED
SAND L	928	630	3	627	0.5
SISSABAGAMA L	719	318	0	318	0.0
SPIDER L	1454	530	0	530	0.0
TEAL L	1049	330	0	330	0.0
TIGER CAT FL	819	290	0	290	0.0
WHITEFISH L	706	56	0	56	0.0
WINDIGO L	522	0	0	0	0.0
** Subtotal **		23712	1977	21735	
** COUNTY TAYLOR					
CHEQUAMEBON WATERS	2714	0	0	0	0.0
** Subtotal **		0	0	0	
** COUNTY VILAS					
BALLARD L	505	314	262	52	83.4
BIG ARBOR VITAE L	1090	732	562	170	76.8
BIG CROOKED L	682	0	0	0	0.0
BIG L (S 4)	723	304	260	44	85.5
BIG L (S 24)	771	280	177	103	63.2
BIG MUSKELLUNGE L	930	338	303	35	89.6
BIG PORTAGE L	638	232	0	232	0.0
BIG SAND L	1408	454	153	301	33.7
BIG ST GERMAIN L	1617	396	5	391	1.3
BIRCH L	528	192	17	175	8.9
BLACK OAK L	504	0	0	0	0.0
BOULDER L	524	190	86	104	45.3
CATFISH L	1012	630	410	220	63.1
CLEAR L	555	190	195	3	98.5
CRAB L	949	492	251	241	51.0
CRANBERRY L	956	596	142	454	23.8
CRAWLING STONE L	1466	0	0	0	0.0
EAGLE L	572	356	0	356	0.0
FENCE L	3555	0	0	0	0.0
FLAMBEAU L	1176	0	0	0	0.0
HARRIS L	507	184	150	34	81.5
HIGH L	734	246	150	96	61.0
IKE WALTON L	1424	0	0	0	0.0
ISLAND L	1023	366	350	16	95.6
KENTUCK L	957	596	135	461	22.7
L LAURA	599	218	175	43	80.3
LAC VIEUX DESERT	2053	1050	283	775	26.7
LITTLE ARBOR VITAE L	528	306	81	225	26.5
LITTLE ST GERMAIN L	956	610	54	556	8.9
LITTLE TROUT L	978	0	0	0	0.0
LONG L	872	318	0	318	0.0
LOST L	544	190	0	190	0.0
LOWER NINEMILE L	646	0	0	0	0.0
MANITOWISH L	506	170	0	170	0.0
N TWIN L	2700	410	153	257	37.3
OXBOW L	511	186	0	186	0.0

Table 1. (cont.)

LAKE	AREA IN ACRES	TRIBAL QUOTA (20% OF TAC)	NUMBER SPEARED	BALANCE OF QUOTA: # NOT HARVESTED	% OF QUOTA HARVESTED
PALMER L	635	232	0	232	0.0
ALUM L	1100	194	0	194	0.0
POKEBAMA L	1852	0	0	0	0.0
PRESQUE ISLE L	1280	456	449	7	98.5
REST L	640	228	0	228	0.0
S TWIN L	642	234	47	187	20.1
SMOKY LAKE	610	0	0	0	0.0
STAR L	1150	266	166	100	62.4
STORMY L	522	0	0	0	0.0
TROUT L	3816	0	0	0	0.0
WHITE SAND L	728	260	233	27	89.6
WHITE SAND L (RES)	1299	0	0	0	0.0
** Subtotal **		12440	5249	7191	
** COUNTY WASHBURN					
BULL L	511	0	0	0	0.0
L NANCY	772	98	0	98	0.0
LONG L	3290	920	0	920	0.0
MINONG FL	1564	2256	0	2256	0.0
SHELL L	2580	812	0	812	0.0
SPOONER L	1092	0	0	0	0.0
STONE L	523	80	0	80	0.0
** Subtotal **		4166	0	4166	
*** Total ***		82832	21321	61511	

TABLE 2. NUMBER OF HALLEYE SPEARED ON A DAILY BASIS IN NORTHERN WISCONSIN LAKES BY FIVE CHIPPEWA TRIBES DURING THE 1987 SPRING SPEARING SEASON.

TRIBE	COUNTY	LAKE	DATE IN APRIL																	TOTAL						
			8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	WALLEYE
BAD RIVER	DOUGLAS	BARDON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BAD RIVER	PRICE	BUTTERNUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
BAD RIVER	DOUGLAS	LOMER EAU CLAIRE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BAD RIVER	BAYFIELD	MIDDLE EAU CLAIRE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BAD RIVER	BAYFIELD	NAMEKADON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BAD RIVER	DOUGLAS	NEBAGAMON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BAD RIVER	BAYFIELD	OMEH	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74	43	108	30	145	0	419
BAD RIVER	BAYFIELD	UPPER EAU CLAIRE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
sub-total:			14	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74	43	108	30	145	19	439
LAC COURTE OREILLES	SAWYER	CHIPPEWA FLOWAGE	47	29	78	35	76	107	8	68	19	0	0	0	0	0	0	0	0	94	66				627	
LAC COURTE OREILLES	SAWYER	GRINDSTONE	0	19	0	0	1	38	15	0	0	0	0	0	0	0	0	0	0	97	84	58	28		319	
LAC COURTE OREILLES	SAWYER	LAC COURTE OREILLES	0	0	12	5	0	0	30	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	87	
LAC COURTE OREILLES	SAWYER	NELSON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
LAC COURTE OREILLES	SAWYER	ROUND	0	0	0	0	17	91	0	201	58	65	102	35	235	87	41	28							961	
LAC COURTE OREILLES	SAWYER	SAND	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
LAC COURTE OREILLES	SAWYER	WHITEFISH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
sub-total:			47	51	90	57	167	108	278	141	84	102	35	332	171	193	121								1977	
LAC DU FLAMBEAU	VILAS	BALLARD	0	216	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	262
LAC DU FLAMBEAU	VILAS	BIG (BOULDER-324)	0	0	113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	177
LAC DU FLAMBEAU	VILAS	BIG (CISCO-84)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	260
LAC DU FLAMBEAU	VILAS	BIG ARBOR VITAE	473	0	0	0	0	0	0	0	0	88	0	0	0	0	0	0	0	0	0	0	0	0	0	582
LAC DU FLAMBEAU	VILAS	BIG MURKELLUOE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	303	0	0	0	0	0	303
LAC DU FLAMBEAU	VILAS	BIG SAND	0	0	0	0	0	0	183	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	183
LAC DU FLAMBEAU	VILAS	BIG ST. GERMAIN	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
LAC DU FLAMBEAU	VILAS	BIRCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
LAC DU FLAMBEAU	VILAS	BOULDER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86
LAC DU FLAMBEAU	VILAS	BUCKSKIN	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
LAC DU FLAMBEAU	ONEIDA	BUTTERNUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	132
LAC DU FLAMBEAU	PRICE	BUTTERNUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	582
LAC DU FLAMBEAU	VILAS	GATFISH/CRANBERRY	0	0	0	0	140	0	0	0	0	0	0	0	0	0	0	0	0	412	0	0	0	0	0	195
LAC DU FLAMBEAU	VILAS	CLEAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	263
LAC DU FLAMBEAU	ONEIDA	CLEAR	0	0	108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	107	0	0	0	0	251
LAC DU FLAMBEAU	VILAS	CRAB	0	0	238	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	34
LAC DU FLAMBEAU	ONEIDA	DAM	0	0	0	0	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
LAC DU FLAMBEAU	IRON	FLAMBEAU FLOWAGE	288	844	1173	2658	11	107	117	133	95	4	127	18	0	84	0	0	0	0	0	0	0	0	0	973
LAC DU FLAMBEAU	IRON	GILE FLOWAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	404
LAC DU FLAMBEAU	VILAS	HARRIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	180
LAC DU FLAMBEAU	VILAS	HIGH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	150
LAC DU FLAMBEAU	VILAS	ISLAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	350	0	0	0	0	0	350
LAC DU FLAMBEAU	ONEIDA	KATHERINE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	150	0	0	0	0	0	150
LAC DU FLAMBEAU	ONEIDA	KAWAQUESAGA	0	303	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	303
LAC DU FLAMBEAU	VILAS	LAURA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	175
LAC DU FLAMBEAU	VILAS	LITTLE ARBOR VITAE	81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81
LAC DU FLAMBEAU	VILAS	LITTLE ST. GERMAIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54	0	0	0	0	0	54
LAC DU FLAMBEAU	ONEIDA	MINOCQUA	0	541	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	132	134	0	0	0	0	807
LAC DU FLAMBEAU	VILAS	NORTH THIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	188
LAC DU FLAMBEAU	ONEIDA	PICKEREL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
LAC DU FLAMBEAU	PRICE	PIKE	322	148	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	470
LAC DU FLAMBEAU	VILAS	PLUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LAC DU FLAMBEAU	VILAS	PRESQUE ISLE	0	0	448	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	448

TABLE 2. NUMBER OF WALLEYE SPEARED ON A DAILY BASIS IN NORTHERN WISCONSIN LAKES BY FIVE CHIPPEWA TRIBES DURING THE 1987 SPRING SPEARING SEASON. (concluded)

TRIBE	COUNTY	LAKE	DATE IN APRIL																	TOTAL						
			8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		25	26	27	28	29	30
LAC DU FLAMBEAU	PRICE	ROUND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	300	
LAC DU FLAMBEAU	ONEIDA	SAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
LAC DU FLAMBEAU	ONEIDA	SHISHOBOGAMA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	0	0	22	
LAC DU FLAMBEAU	PRICE	SOLBERG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	
LAC DU FLAMBEAU	VILAS	SOUTH TWIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47	
LAC DU FLAMBEAU	ONEIDA	SQUAH	68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68	
LAC DU FLAMBEAU	ONEIDA	SQUIRREL	517	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	887	
LAC DU FLAMBEAU	VILAS	STAR	0	101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	106	
LAC DU FLAMBEAU	ONEIDA	TOMAHAWK	0	0	369	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	369	
LAC DU FLAMBEAU	IRON	TRUDE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
LAC DU FLAMBEAU	ONEIDA	TWO SISTERS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	
LAC DU FLAMBEAU	VILAS	WHITE SAND	0	233	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	112	124	0	0	233	
LAC DU FLAMBEAU	ONEIDA	WILLOW FLOWAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	
sub-total:			1728	2486	2448	3133	561	852	727	827	811	951	366	410	262	106	286	8							13378	
MOLE LAKE	VILAS	BIG SAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MOLE LAKE	ONEIDA	BIG STONE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MOLE LAKE	FOREST	BUTTERNUT	20	55	11	8	0	8	0	0	0	0	0	0	0	115	70	55	87	0	43	0	0	0	454	
MOLE LAKE	FOREST	FRANKLIN	0	0	0	0	0	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	308	
MOLE LAKE	FLORENCE	HALSEY	10	131	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	141	
MOLE LAKE	FOREST	KENTUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	118	0	0	0	0	0	0	0	138	
MOLE LAKE	VILAS	LAC VIEUX DESERT	32	78	55	109	0	0	0	5	0	0	0	0	0	4	0	0	0	0	0	0	0	0	283	
MOLE LAKE	FOREST	METOMBA	0	0	0	0	0	81	1	156	105	44	70	0	4	17	0	0	0	0	0	0	0	0	488	
MOLE LAKE	PELICAN	PELICAN	8	213	227	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	468	
MOLE LAKE	FOREST	PIKE	0	75	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90	
MOLE LAKE	ONEIDA	PLANTING GROUND	0	27	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45	
MOLE LAKE	LANGLADE	UPPER POST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MOLE LAKE	ONEIDA	WILLOW FLOWAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	113	
sub-total:			70	578	328	252	133	10	161	371	44	185	192	58	84	17	43								2528	
ST CROIX	POLK	BALSAM	0	0	66	0	0	56	1	0	10	97	102	0	12	57	74								475	
ST CROIX	DOUGLAS	BARDON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	158								158	
ST CROIX	BARRON	BEAVER DAM	0	0	0	0	0	0	0	0	0	0	0	0	30	40	13								83	
ST CROIX	BURNETT	BIG SAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								0	
ST CROIX	POLK	HALF MOON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								4	
ST CROIX	BURNETT	NORTH SAND	0	0	0	0	0	26	0	25	51	36	0	0	0	0	0								138	
ST CROIX	POLK	ROUND	13	14	0	0	0	0	0	12	0	4	0	0	0	0	0								43	
ST CROIX	WASHBURN	SHELL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								0	
ST CROIX	BURNETT	UPPER CLAM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								0	
ST CROIX	BURNETT	YELLOW	0	18	21	0	0	30	0	0	0	0	28	0	0	0	0								100	
sub-total:			13	32	87	0	56	58	38	55	50	128	102	2	42	97	245								1001	
TOTAL:			13	32	87	47	107	148	165	2330	2884	3104	3518	657	857	1230	1448	1167	1010	608	600	308	284	306	4	21321

Table 3. Length frequency of walleye (sexes combined) harvested in northern Wisconsin lakes during the 1987 spring spearing season.

TRIBE	LAKE	COUNTY	INCH GROUP																	TOTAL AVERAGE	NUMBER	TOTAL LENGTH	# 20" & 24"							
			9"	10"	11"	12"	13"	14"	15"	16"	17"	18"	19"	20"	21"	22"	23"	24"	25"					26"	27"	28"	29"	30"	31"	SEXED
BAD RIVER	BUTTERNUT	ASHLAND	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	16.2	16.2	0	0
BAD RIVER	HAMEKAGON	BAYFIELD	0	0	1	3	1	1	2	3	1	2	0	1	2	0	0	0	0	0	0	0	0	0	0	18	320.9	16.8	5	0
BAD RIVER	OWEN	BAYFIELD	0	1	4	9	21	26	49	71	67	43	47	29	10	4	3	1	2	0	0	0	0	0	0	388	6713.8	18.8	48	3
	sub-total:		0	1	5	12	22	29	51	74	88	46	47	30	12	6	3	1	2	0	0	0	0	0	408	7053	17.2	94	3	
LAC COURTE OREILLES	CHIPPEWA FLOWAGE	SAWYER	1	6	17	37	77	96	106	121	72	42	15	13	6	3	4	2	4	2	0	1	0	0	627	9894.0	15.6	85	8	
LAC COURTE OREILLES	GRINDSTONE	SAWYER	0	0	1	2	11	30	24	27	34	55	81	22	9	5	1	2	0	0	0	0	0	0	318	5872.7	18.3	101	4	
LAC COURTE OREILLES	LAC COURTE OREILLES	SAWYER	0	0	1	0	0	0	1	3	13	17	12	4	5	4	3	1	1	2	0	0	0	0	87	1283.0	20.0	20	4	
LAC COURTE OREILLES	ROUND	SAWYER	0	0	10	43	132	234	180	138	67	55	22	17	8	5	7	4	4	5	2	0	0	0	961	15084.1	15.8	90	22	
LAC COURTE OREILLES	SAND	SAWYER	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	3	48.1	16.0	0	0	
	sub-total:		1	6	28	82	241	382	311	290	187	148	104	95	42	21	19	11	11	8	5	3	1	0	1877	32201.8	16.3	216	39	
LAC DU FLAMBEAU	BALLARD	VILAS	0	0	1	3	8	28	24	15	19	16	16	29	12	2	3	2	4	1	0	0	0	0	182	3221.2	17.5	49	7	
LAC DU FLAMBEAU	BIG (BOULDER-94)	VILAS	0	0	18	67	39	16	11	4	8	8	2	2	0	0	1	1	1	0	0	1	0	0	177	2458.4	13.8	7	4	
LAC DU FLAMBEAU	BIG (CISCO-924)	VILAS	0	0	15	23	17	54	28	25	8	10	10	2	0	2	4	0	1	0	0	0	0	0	202	3155.5	15.6	12	6	
LAC DU FLAMBEAU	BIG ARBOR VITAE	VILAS	1	2	26	78	61	30	39	19	9	11	6	1	1	2	0	0	2	2	0	0	0	0	291	4136.5	14.2	6	4	
LAC DU FLAMBEAU	BIG MUSKELLUNGE	VILAS	0	0	5	43	93	47	23	7	3	4	1	1	0	0	1	1	0	0	0	0	0	0	201	2844.1	14.1	5	3	
LAC DU FLAMBEAU	BIG SAND	VILAS	0	0	0	0	0	1	1	7	9	18	50	45	13	2	1	1	2	1	0	0	0	0	193	2877.4	16.8	22	4	
LAC DU FLAMBEAU	BIG ST. GERMAIN	VILAS	0	0	0	0	0	0	0	1	3	0	0	0	1	0	0	0	0	0	0	0	0	0	5	84.8	17.0	1	0	
LAC DU FLAMBEAU	BOULDER	VILAS	0	0	1	6	2	1	2	0	1	0	2	1	1	0	0	0	0	0	0	0	0	0	17	258.1	18.2	2	0	
LAC DU FLAMBEAU	BUCKSKIN	VILAS	0	0	0	0	0	0	1	0	0	2	3	3	0	0	0	0	1	0	0	0	0	0	88	1269.3	14.8	2	2	
LAC DU FLAMBEAU	BUTTERNUT	PRICE	0	0	0	0	0	0	1	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	8	85.3	17.1	0	0	
LAC DU FLAMBEAU	CATFISH/CRANBERRY	VILAS	0	0	9	16	33	82	89	85	63	44	25	8	8	7	2	0	0	0	0	0	0	0	411	6239.8	15.3	19	2	
LAC DU FLAMBEAU	CLEAR	ONEIDA	0	0	0	0	3	8	20	21	35	52	41	30	23	6	7	2	3	2	1	1	0	0	282	4730.7	18.1	52	10	
LAC DU FLAMBEAU	CLEAR	VILAS	0	1	10	18	37	29	22	19	25	7	8	9	2	1	4	0	2	1	0	0	0	0	195	3057.1	15.7	18	3	
LAC DU FLAMBEAU	CRAB	VILAS	0	12	28	38	36	28	38	23	8	4	3	2	0	0	1	0	1	0	0	0	0	0	222	3217.8	14.8	10	7	
LAC DU FLAMBEAU	DAM	ONEIDA	0	0	3	6	3	10	3	5	2	1	0	0	0	0	1	0	0	0	0	0	0	0	34	501.1	14.7	1	0	
LAC DU FLAMBEAU	FLAMBEAU FLOWAGE	IRON	6	8	87	139	257	288	208	175	181	99	48	8	9	1	2	0	0	0	0	0	0	0	1507	22809.5	15.1	25	4	
LAC DU FLAMBEAU	GILLE FLOWAGE	IRON	0	1	8	18	83	37	28	28	17	5	4	0	1	0	1	0	0	0	0	0	0	0	211	3109.8	14.7	2	0	
LAC DU FLAMBEAU	HARRIS	VILAS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	190	2429.3	16.2	16	4	
LAC DU FLAMBEAU	HIGH	VILAS	1	5	10	46	42	22	7	0	5	1	2	0	3	1	1	4	0	0	0	0	0	0	180	2089.4	13.8	9	4	
LAC DU FLAMBEAU	ISLAND	VILAS	1	0	1	17	21	39	28	21	21	24	14	5	2	5	0	0	0	0	0	0	0	0	200	3216.8	16.1	19	1	
LAC DU FLAMBEAU	KATHERINE	ONEIDA	0	5	14	26	30	5	10	7	9	7	15	8	4	4	2	2	1	0	0	0	0	0	150	2342.3	15.6	22	3	
LAC DU FLAMBEAU	KAWAQUASAGA	ONEIDA	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	
LAC DU FLAMBEAU	LAURA	VILAS	0	0	1	7	25	25	41	29	20	15	4	2	1	1	2	1	0	0	0	0	0	0	175	2783.9	16.0	8	2	
LAC DU FLAMBEAU	LITTLE ARBOR VITAE	VILAS	0	0	0	6	9	20	12	8	6	8	4	2	0	0	1	1	2	2	0	0	0	0	81	1243.4	15.4	8	4	
LAC DU FLAMBEAU	LITTLE ST. GERMAIN	ONEIDA	0	0	2	0	0	8	8	3	8	4	2	1	2	0	1	1	0	0	0	0	0	0	54	824.9	17.1	8	4	
LAC DU FLAMBEAU	MIMOCQUA	ONEIDA	1	4	20	81	73	69	42	43	23	30	23	17	7	7	8	6	5	6	3	1	1	0	488	7349.8	15.6	56	22	
LAC DU FLAMBEAU	NORTH/SOUTH TWIN	VILAS	0	0	8	35	35	30	23	22	14	4	7	3	5	2	1	3	3	2	1	1	0	0	200	3132.8	15.7	22	11	
LAC DU FLAMBEAU	PICHEREL	ONEIDA	0	0	0	0	0	0	0	2	2	6	9	3	7	1	2	1	1	0	0	0	0	0	35	673.7	19.2	19	2	
LAC DU FLAMBEAU	PIKE	PRICE	1	33	87	87	103	88	40	29	11	7	2	0	0	0	0	0	0	1	0	0	0	0	470	6318.8	13.4	2	2	
LAC DU FLAMBEAU	PRESCQUE ISLE	VILAS	0	0	1	10	34	28	23	17	22	27	10	12	4	2	3	1	1	0	0	0	0	0	200	3324.8	18.6	27	6	
LAC DU FLAMBEAU	ROUND	PRICE	1	17	28	58	42	36	13	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	203	2839.8	13.0	0	0	
LAC DU FLAMBEAU	SHIHEROONIA	ONEIDA	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	
LAC DU FLAMBEAU	SOLBERG	PRICE	0	0	7	2	7	8	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	28	394.8	14.1	1	1	
LAC DU FLAMBEAU	SQUAW	ONEIDA	0	0	2	14	19	15	11	6	0	0	1	0	0	0	0	0	0	0	0	0	0	0	88	947.0	13.9	0	0	
LAC DU FLAMBEAU	SQUIRREL	ONEIDA	1	6	32	93	105	50	33	14	9	10	4	2	3	1	2	2	0	0	0	0	0	0	370	5181.7	14.0	13	5	
LAC DU FLAMBEAU	STAR	VILAS	0	0	1	16	35	38	18	14	12	13	9	3	2	3	1	0	0	0	0	0	0	0	188	2893.6	15.8	12	2	
LAC DU FLAMBEAU	TOHAWANK	ONEIDA	0	3	15	16	24	75	133	114	57	33	17	17	14	12	4	4	5	2	4	7	4	0	584	9495.3	16.8	77	30	
LAC DU FLAMBEAU	TRUDE	IRON	0	0	0	0	1	1	1	1	5	7	8	7	0	1	1	0	0	0	0	0	0	0	33	558.1	16.9	2	0	
LAC DU FLAMBEAU	TWO SISTERS	ONEIDA	0	0	2	13	26	48	33	35	24	14	13	9	3	5	4	5	0	0	0	0	0	0	236	3871.7	16.8	28	7	

Table 3. Length frequency of walleye (sexes combined) harvested in northern Wisconsin lakes during the 1987 spring spearing season. (concluded)

TRIBE	LAKE	COUNTY	INCH GROUP																								NUMBER	TOTAL AVERAGE		
			9"	10"	11"	12"	13"	14"	15"	16"	17"	18"	19"	20"	21"	22"	23"	24"	25"	26"	27"	28"	29"	30"	31"	32"		INCHES	LENGTH	WALLEYE
LAC DU FLAMBEAU	WHITE SAND	VILAS	0	1	8	11	10	16	12	23	50	43	30	10	5	3	2	0	1	1	2	0	4	0	0	233	4044.4	17.4	28	8
LAC DU FLAMBEAU	WILLOW FLOWAGE	ONEIDA	0	0	1	0	0	2	3	5	7	3	5	1	0	0	0	0	0	0	0	0	0	0	27	464.0	17.2	1	0	
sub-total:			16	108	473	1036	1330	1286	1055	861	721	533	359	201	101	67	60	47	40	26	17	17	19	6	0	8428	130304.3	15.3	603	174
MOLE LAKE	BUTTERNUT	FOREST	0	1	17	34	20	31	50	81	80	34	39	20	5	3	0	2	3	1	2	1	0	0	1	445	7445.1	15.7	38	10
MOLE LAKE	FRANKLIN	FOREST	0	0	3	4	5	65	127	51	11	7	4	3	2	0	1	0	0	0	0	0	2	0	0	306	4832.5	16.9	11	3
MOLE LAKE	HALBEY	FLORENCE	0	0	0	0	0	0	0	0	1	6	34	48	25	5	9	7	4	1	0	0	0	0	0	141	2942.9	21.5	100	12
MOLE LAKE	KENTUCK	VILAS	0	0	1	23	52	35	12	5	6	0	0	1	0	0	0	0	0	0	0	0	0	0	0	135	1894.5	14.0	1	0
MOLE LAKE	LAC VIEUX DESERT	VILAS	0	0	1	8	9	15	33	62	48	47	35	11	4	2	4	0	0	0	0	0	0	0	0	276	4803.5	17.0	21	0
MOLE LAKE	METONGA	FOREST	0	1	11	28	118	144	73	28	6	4	9	4	2	0	1	0	0	1	0	0	0	0	0	431	8267.8	15.6	8	1
MOLE LAKE	PELICAN	ONEIDA	0	4	6	24	31	53	71	68	71	70	38	14	10	8	2	0	0	1	0	0	0	0	0	469	7793.9	17.5	25	1
MOLE LAKE	PINE	FOREST	0	0	0	1	3	9	19	12	8	9	10	2	1	1	0	0	0	0	0	0	0	0	0	75	1255.8	16.7	4	0
MOLE LAKE	PLANTING GROUND	ONEIDA	0	0	1	0	0	3	3	3	2	2	1	1	1	0	1	0	0	0	0	0	0	0	0	18	306.8	17.0	3	1
MOLE LAKE	WILLOW FLOWAGE	ONEIDA	0	0	1	6	5	19	26	21	13	10	6	3	1	1	1	0	0	0	0	0	0	0	0	113	1631.2	16.2	6	0
sub-total:			0	6	41	128	244	394	414	327	248	208	176	108	51	23	17	11	7	4	2	1	2	0	1	2414	38373.9	16.3	227	28
ST. CROIX	BALSAM	POLK	0	1	5	7	4	6	24	51	75	108	67	38	26	11	11	7	7	8	6	5	3	0	1	475	9008.1	19.8	124	37
ST. CROIX	BARDON	DOUGLAS	0	0	3	8	22	29	27	34	24	5	4	1	0	0	1	0	0	0	0	0	0	0	0	158	2455.7	18.8	2	0
ST. CROIX	BEAVER DAM	BARRON	0	0	0	0	2	4	12	6	7	12	17	8	4	1	1	1	3	1	0	0	0	0	0	83	1607.4	19.2	38	6
ST. CROIX	HALFMOON	POLK	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	1	0	0	0	0	0	4	85.2	23.6	3	3
ST. CROIX	NORTH SAND	BURNETT	0	0	0	0	0	4	0	11	28	24	32	15	14	6	0	3	1	0	0	0	0	0	0	136	2169.7	18.9	39	4
ST. CROIX	ROUND	POLK	0	0	2	0	0	1	2	0	0	0	3	1	1	6	3	1	5	6	10	2	0	0	0	43	1015.0	21.7	35	24
ST. CROIX	YELLOW	BURNETT	0	1	0	7	7	18	7	6	15	12	6	6	4	4	1	2	2	1	1	0	0	0	0	100	1504.4	6.7	21	6
sub-total:			0	2	10	22	35	62	64	114	130	137	125	79	53	31	17	16	16	18	18	7	3	0	1	1001	17835.5	17.6	260	60
TOTAL:			17	129	596	1282	1892	2193	1895	1666	1374	1113	811	513	259	146	86	76	67	62	26	26	6	2	14224	226788.6	18.9	1960	324	

Table 4. Length frequency of male walleyes harvested in northern Wisconsin lakes during the 1987 spring spearing season.

TRIBE	LAKE	COUNTY	INCH GROUP																	NUMBER TOTAL	AVERAGE LENGTH	# 20" & # 24"							
			9"	10"	11"	12"	13"	14"	15"	16"	17"	18"	19"	20"	21"	22"	23"	24"	25"				26"	27"	28"	30"	31"		
BAD RIVER	BUTTERNUT	ASHLAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	18.2	18.2	0	0
BAD RIVER	HAMELMOON	BAYFIELD	0	0	1	3	0	1	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	11	182.9	14.8	0	0
BAD RIVER	OMEN	BAYFIELD	0	1	2	7	18	27	45	58	59	37	38	21	7	2	0	0	0	0	0	0	0	0	324	5819.5	18.3	30	0
sub-total:			0	1	3	10	18	28	47	61	80	38	38	21	7	2	0	0	0	0	0	0	0	0	338	5800.6	17.3	30	0
LAC COURTE OREILLES	CHIPPEWA FLOWAGE	SAWYER	0	2	11	35	73	91	98	115	67	37	9	8	3	2	2	0	0	0	0	0	0	0	593	8810.4	14.5	15	0
LAC COURTE OREILLES	ORINSTONE	SAWYER	0	0	0	1	8	20	18	23	24	17	17	8	2	2	0	0	0	0	0	0	0	0	142	2411.4	18.8	12	0
LAC COURTE OREILLES	LAC COURTE OREILLES	SAWYER	0	0	1	0	0	0	1	11	11	8	1	2	1	0	0	0	0	0	0	0	0	0	41	771.3	20.0	7	1
LAC COURTE OREILLES	ROUND	SAWYER	0	0	10	43	148	228	168	126	81	47	18	14	4	1	0	0	0	0	0	0	0	0	884	13193.4	15.3	19	0
LAC COURTE OREILLES	SAND	SAWYER	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	30.2	18.0	0	0	
sub-total:			0	2	22	78	228	337	288	288	163	112	53	31	11	8	4	1	0	0	0	0	0	0	1802	25018.7	15.8	53	1
LAC DU FLAMBEAU	BALLARD	VILAS	0	0	0	2	6	24	18	12	16	18	13	17	8	0	1	0	0	0	0	0	0	0	136	2356.0	17.3	28	1
LAC DU FLAMBEAU	BIG (BOULDER-84)	VILAS	0	0	17	85	38	18	10	4	8	3	1	2	0	0	0	0	0	0	0	0	0	0	181	2173.8	13.5	2	0
LAC DU FLAMBEAU	BIG (CISCO-824)	VILAS	0	0	15	23	17	31	27	24	5	8	9	1	0	0	0	0	0	0	0	0	0	0	181	2692.2	14.8	2	1
LAC DU FLAMBEAU	BIG ARBOR VITAE	VILAS	1	2	28	75	37	30	39	18	6	8	2	0	0	2	0	0	0	0	0	0	0	0	267	3702.8	13.8	2	0
LAC DU FLAMBEAU	BIG MUSELLOUNE	VILAS	1	0	4	8	52	32	18	3	1	1	0	0	0	0	0	0	0	0	0	0	0	151	2088.5	13.8	1	0	
LAC DU FLAMBEAU	BIG SAND	VILAS	0	0	0	0	0	1	1	7	3	18	30	44	13	1	0	1	0	0	0	0	0	146	2707.1	18.3	16	1	
LAC DU FLAMBEAU	BIG ST. GERMAIN	VILAS	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	4	64.6	18.1	0	0	
LAC DU FLAMBEAU	BIRCH	VILAS	0	0	0	4	12	6	15	6	7	1	1	0	0	0	0	0	0	0	0	0	0	2	38.0	12.7	0	0	
LAC DU FLAMBEAU	BOULDER	VILAS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	733.4	14.1	0	0	
LAC DU FLAMBEAU	BUCKSKIN	VILAS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	18.8	18.8	0	0	
LAC DU FLAMBEAU	BUTTERNUT	PRICE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	35.4	17.7	1	0	
LAC DU FLAMBEAU	CATFISH/CRANBERRY	VILAS	0	7	18	31	80	57	37	33	35	14	3	3	0	0	0	0	0	0	0	0	0	333	4888.1	14.8	3	0	
LAC DU FLAMBEAU	CLEAR	VILAS	0	1	4	18	33	27	22	18	18	5	4	3	0	1	0	0	0	0	0	0	0	138	2380.8	14.8	4	0	
LAC DU FLAMBEAU	GLENN	ONEIDA	0	0	0	2	6	18	15	28	84	28	18	6	1	1	0	0	0	0	0	0	0	155	2838.4	17.0	8	0	
LAC DU FLAMBEAU	CRAB	VILAS	0	10	23	32	34	28	33	18	4	3	1	1	0	0	0	0	0	0	0	0	0	190	2810.8	18.7	1	0	
LAC DU FLAMBEAU	DAM	ONEIDA	0	0	3	8	2	6	2	5	1	0	0	0	0	0	0	0	0	0	0	0	0	27	384.6	14.3	0	0	
LAC DU FLAMBEAU	FLAMBEAU FLOWAGE	IRON	3	4	78	122	238	248	181	181	182	89	38	4	1	0	0	0	0	0	0	0	0	1339	20141.3	15.0	5	0	
LAC DU FLAMBEAU	GILE FLOWAGE	IRON	0	1	4	14	62	36	28	28	16	5	4	0	0	0	0	0	0	0	0	0	0	188	2824.6	14.8	0	0	
LAC DU FLAMBEAU	HARRIS	VILAS	0	0	3	8	15	24	22	11	12	6	5	2	1	0	1	0	0	0	0	0	0	111	1711.6	13.4	4	0	
LAC DU FLAMBEAU	HIXON	VILAS	0	3	3	41	39	15	3	0	4	1	1	0	1	0	0	0	0	0	0	0	0	117	1555.3	13.3	1	0	
LAC DU FLAMBEAU	ISLAND	VILAS	1	0	1	14	20	35	26	16	18	21	12	4	1	1	0	0	0	0	0	0	0	114	1878.2	14.7	5	0	
LAC DU FLAMBEAU	KATHERINE	ONEIDA	0	3	13	24	25	5	8	6	7	11	3	2	0	0	1	1	0	0	0	0	0	128	2009.9	15.8	3	0	
LAC DU FLAMBEAU	LAURA	VILAS	0	0	6	8	20	10	7	5	5	4	2	0	0	1	0	0	0	0	0	0	0	70	1030.8	14.7	2	1	
LAC DU FLAMBEAU	LITTLE ARBOR VITAE	VILAS	0	0	1	0	8	9	6	2	3	8	3	2	1	2	0	0	0	0	0	0	0	47	788.0	16.4	8	0	
LAC DU FLAMBEAU	LITTLE ST. GERMAIN	ONEIDA	0	4	20	88	85	54	35	35	13	13	10	4	1	0	0	0	0	0	0	0	0	322	4837.6	14.5	3	0	
LAC DU FLAMBEAU	MINOCQUA	ONEIDA	0	0	8	34	31	25	18	15	10	2	4	1	0	0	0	0	0	0	0	0	0	145	2093.5	14.4	1	0	
LAC DU FLAMBEAU	NORTH/SOUTH THIN	VILAS	0	0	0	0	0	0	0	2	2	6	8	3	7	1	1	0	0	0	0	0	0	30	539.7	16.7	8	0	
LAC DU FLAMBEAU	PICKEREL	ONEIDA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	408	5407.3	13.2	0	0	
LAC DU FLAMBEAU	PIKE	PRICE	0	80	80	78	88	81	33	24	4	2	0	0	0	0	0	0	0	0	0	0	0	143	2208.6	15.4	8	0	
LAC DU FLAMBEAU	PRESQUE ISLE	PRICE	1	15	28	51	37	28	8	4	1	0	0	0	0	0	0	0	0	0	0	0	0	174	2243.8	12.8	0	0	
LAC DU FLAMBEAU	ROUND	PRICE	0	0	3	2	6	5	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	17	231.2	13.8	0	0	
LAC DU FLAMBEAU	SOLBERG	ONEIDA	0	0	2	14	18	15	8	6	0	1	0	0	0	0	0	0	0	0	0	0	0	85	802.8	18.8	0	0	
LAC DU FLAMBEAU	SQUAM	ONEIDA	1	6	28	88	88	42	31	10	6	4	0	0	0	0	0	0	0	0	0	0	0	315	4238.7	13.5	0	0	
LAC DU FLAMBEAU	STAR	ONEIDA	0	0	1	16	33	35	9	13	10	8	2	0	0	0	0	0	0	0	0	0	0	128	1888.5	14.8	0	0	
LAC DU FLAMBEAU	TOMAHK	ONEIDA	0	1	8	6	23	71	128	103	37	18	7	8	2	3	0	0	0	0	0	0	0	408	8301.3	15.8	14	3	
LAC DU FLAMBEAU	TRUDE	IRON	0	0	0	0	1	1	1	5	7	8	8	0	0	0	0	0	0	0	0	0	0	30	488.0	18.8	0	0	
LAC DU FLAMBEAU	THO SISTERS	ONEIDA	0	0	2	9	21	40	28	20	21	12	8	3	2	1	1	0	0	0	0	0	0	177	2827.1	18.0	12	1	
LAC DU FLAMBEAU	WHITE SAND	VILAS	0	1	6	11	10	18	10	18	20	38	28	12	4	1	0	0	0	0	0	0	0	158	2549.3	16.3	8	1	
LAC DU FLAMBEAU	WILLOW FLOWAGE	ONEIDA	0	0	1	0	1	0	2	3	3	7	3	0	0	0	0	0	0	0	0	0	0	22	371.6	16.8	0	0	

Table 4. Length frequency of male walleye harvested in northern Wisconsin lakes during the 1987 spring spearing season. (concluded)

TRESP	LAKE	COUNTY	INCH GROUP																	NUMBER TOTAL BEDED	AVERAGE LENGTH	MALLEVE								
			9"	10"	11"	12"	13"	14"	15"	16"	17"	18"	19"	20"	21"	22"	23"	24"	25"				26"	27"	28"	29"	30"	31"		
sub-total:			7	88	418	928	1234	1134	812	738	372	402	228	95	28	17	4	7	1	0	1	0	0	0	0	8808	301260.6	16.9	151	9
MOLE LAKE	BUTTERNUT	FOREST	0	1	16	29	13	25	49	78	76	50	31	12	4	0	0	1	0	0	0	0	0	0	0	365	6329.3	15.7	17	1
MOLE LAKE	FRANKLIN	FOREST	0	0	2	3	5	85	122	43	6	2	3	3	2	1	0	0	0	0	0	0	0	0	0	277	4272.6	15.7	6	0
MOLE LAKE	HALBEY	FLORENCE	0	0	0	0	0	0	0	0	0	0	0	2	1	3	1	0	1	0	0	0	0	0	0	8	168.7	21.1	6	1
MOLE LAKE	KENTUCK	VILAS	0	0	1	22	47	32	9	5	6	0	0	1	0	0	0	0	0	0	0	0	0	0	0	123	1723.1	14.0	1	0
MOLE LAKE	LAC VIEUX DESERT	VILAS	0	0	1	8	9	15	33	60	45	42	27	5	1	0	1	0	0	0	0	0	0	0	0	247	4189.1	0.0	7	0
MOLE LAKE	METOWGA	FOREST	0	1	11	27	118	138	70	22	5	2	7	1	1	0	0	0	0	0	0	0	0	0	0	404	5789.7	14.3	2	0
MOLE LAKE	PELLICAN	ONEIDA	0	3	4	24	31	31	68	62	80	51	28	13	1	0	0	0	0	0	0	0	0	0	0	386	6417.6	17.2	14	0
MOLE LAKE	PIKE	FOREST	0	0	0	1	3	9	19	11	8	8	9	2	1	0	0	0	0	0	0	0	0	0	0	71	1179.5	16.5	3	0
MOLE LAKE	PLANTING GROUND	ONEIDA	0	0	0	0	0	0	2	3	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	7	110.3	13.8	0	0
MOLE LAKE	WILLOW FLCHAGE	ONEIDA	0	0	1	6	5	18	25	19	13	10	6	2	0	0	0	0	0	0	0	0	0	0	0	104	1888.3	16.0	2	0
sub-total:			0	5	36	120	231	377	398	300	220	188	118	40	13	2	1	2	0	0	0	0	0	0	0	2024	31688.2	15.7	58	2
ST. CROIX	BALSAM	POLK	0	0	1	1	2	4	20	44	70	89	61	31	18	5	4	0	1	0	0	0	0	0	0	303	6079.5	16.7	61	2
ST. CROIX	BARDON	DOUGLAS	0	0	2	5	20	26	23	32	20	3	3	0	0	0	0	0	0	0	0	0	0	0	0	188	2133.4	15.3	0	0
ST. CROIX	BEAVER DAM	BARRON	0	0	0	0	2	2	4	11	7	7	12	17	8	3	1	1	0	0	0	0	0	0	0	76	1442.1	19.2	31	2
ST. CROIX	NORTH SAND	BURNETT	0	0	0	0	0	0	2	0	8	27	17	14	13	5	0	0	0	0	0	0	0	0	0	114	2132.2	16.7	32	0
ST. CROIX	ROUND	POLK	0	0	2	0	0	0	1	0	0	0	2	1	1	2	0	0	0	2	1	0	0	0	0	12	246.0	19.6	7	3
ST. CROIX	YELLOW	BURNETT	0	0	0	0	0	0	4	16	4	5	14	8	4	2	1	0	0	0	0	0	0	0	0	89	1193.5	17.7	7	0
sub-total:			0	0	8	12	28	53	53	101	138	135	108	67	43	16	5	1	2	0	3	1	0	0	0	772	13766.7	17.8	138	7
TOTAL:			7	98	479	1150	1740	1929	1696	1466	1193	854	638	254	100	43	14	11	3	0	4	1	0	0	0	11339	177734.6	15.4	480	19

Table 5. Length frequency of female walleye harvested in northern Wisconsin lakes during the 1987 spring spearing season.

TRIBE	LAKE	COUNTY	INCH GROUP																								NUMBER	TOTAL AVERAGE			
			9"	10"	11"	12"	13"	14"	15"	16"	17"	18"	19"	20"	21"	22"	23"	24"	25"	26"	27"	28"	30"	31"	32"	33"		INCHES LENGTH	WALLEYE	MALLEYE	
BAD RIVER	NAMEKAGON	BAYFIELD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	43.4	21.7	2	0
BAD RIVER	OMEN	BAYFIELD	0	0	0	0	0	0	5	4	5	7	6	2	2	3	1	2	0	0	0	0	0	0	0	0	37	733.8	20.8	16	3
		sub-total:	0	0	0	0	0	0	5	4	5	7	7	2	3	3	1	2	0	0	0	0	0	0	0	39	777.2	19.8	16	3	
LAC COURTE OREILLES	CHIPPEWA FLOWAGE	SAWYER	0	1	1	0	1	3	5	5	2	4	5	5	3	1	2	2	4	2	0	1	0	0	0	47	808.8	22.6	20	9	
LAC COURTE OREILLES	GRINDSTONE	SAWYER	0	0	0	0	4	3	1	6	18	28	44	14	4	5	1	2	0	0	1	0	0	0	0	129	2591.9	19.4	71	4	
LAC COURTE OREILLES	LAC COURTE OREILLES	SAWYER	0	0	0	0	0	0	1	4	3	1	3	3	1	0	1	1	0	0	0	0	0	0	0	19	389.8	20.1	10	2	
LAC COURTE OREILLES	ROUND	SAWYER	0	0	0	0	2	6	12	8	6	5	3	5	4	7	7	4	4	5	2	0	0	0	0	90	1797.1	18.0	41	22	
		sub-total:	0	1	1	0	3	13	20	19	15	32	38	53	25	12	15	10	11	7	5	3	1	0	0	285	5877.7	19.8	142	37	
LAC DU FLAMBEAU	BALLARD	VILAS	0	0	0	0	1	0	1	0	0	1	1	3	1	2	1	2	2	0	0	0	0	0	0	15	317.2	21.1	11	4	
LAC DU FLAMBEAU	BIG (BOULDER-84)	VILAS	0	0	0	0	1	0	1	0	1	0	1	0	0	0	0	1	0	0	1	0	1	0	0	7	148.5	21.2	3	3	
LAC DU FLAMBEAU	BIG (CISCO-824)	VILAS	0	0	0	0	1	1	1	1	1	1	1	0	2	2	3	0	1	0	0	0	0	0	0	14	297.7	21.3	9	4	
LAC DU FLAMBEAU	BIG ARBOR VITAE	VILAS	0	0	0	0	0	0	3	3	3	1	1	0	0	0	0	2	2	0	0	0	0	0	0	15	311.0	20.7	6	4	
LAC DU FLAMBEAU	BIG MUSKELLUNGE	VILAS	0	0	0	1	2	6	0	2	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	14	228.1	18.3	2	2	
LAC DU FLAMBEAU	BIG SAND	VILAS	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	2	1	0	0	0	0	0	0	7	164.3	23.5	6	3	
LAC DU FLAMBEAU	BIG ST. GERMAIN	VILAS	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	20.2	20.2	1	0		
LAC DU FLAMBEAU	BIRCH	VILAS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	21.7	21.7	1	0		
LAC DU FLAMBEAU	BOULDER	VILAS	0	0	0	0	1	0	1	0	0	1	2	0	0	0	1	0	0	0	1	0	0	0	7	137.3	19.6	2	2		
LAC DU FLAMBEAU	BUTTERNUT	PRICE	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	16.2	16.2	0	0		
LAC DU FLAMBEAU	CATFISH/CRAMBERRY	VILAS	0	0	0	0	0	7	6	7	6	9	2	4	4	2	0	1	0	0	0	0	0	0	0	48	853.5	17.8	11	1	
LAC DU FLAMBEAU	CLEAR	ONEIDA	0	0	0	0	0	0	3	2	3	5	4	6	4	3	2	1	2	1	1	0	1	0	38	782.6	20.8	21	6		
LAC DU FLAMBEAU	CLEAR	VILAS	0	0	0	0	0	0	0	1	1	1	3	3	2	0	4	0	1	1	0	0	0	0	17	361.0	21.2	11	2		
LAC DU FLAMBEAU	CRAB	VILAS	0	0	0	0	0	1	0	2	2	1	1	0	0	0	1	0	0	0	0	0	0	0	12	244.9	20.4	5	3		
LAC DU FLAMBEAU	DAM	ONEIDA	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	4	73.6	18.4	1	0		
LAC DU FLAMBEAU	FLAMBEAU FLOWAGE	IRON	0	0	0	1	4	6	11	10	18	18	12	5	7	1	2	0	0	0	0	0	0	0	86	1897.1	18.1	18	4		
LAC DU FLAMBEAU	GILE FLOWAGE	IRON	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	21.8	21.8	1	0		
LAC DU FLAMBEAU	HARRIS	VILAS	0	0	0	1	0	0	1	0	1	2	2	1	3	1	2	0	0	0	0	0	0	0	16	303.8	19.0	7	0		
LAC DU FLAMBEAU	HIGH	VILAS	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	39.5	19.2	1	1		
LAC DU FLAMBEAU	ISLAND	VILAS	0	0	0	0	0	1	0	2	2	3	1	1	1	4	0	0	1	0	0	0	0	0	16	314.6	19.7	7	1		
LAC DU FLAMBEAU	KATHERINE	ONEIDA	0	0	0	0	0	0	0	0	0	0	1	3	1	0	0	0	1	0	0	0	0	0	6	89.6	17.9	1	1		
LAC DU FLAMBEAU	LAURA	VILAS	0	0	0	0	0	0	1	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	5	128.3	21.4	5	1		
LAC DU FLAMBEAU	LITTLE ARBOR VITAE	VILAS	0	0	0	0	0	0	2	1	1	3	0	0	0	0	1	1	2	0	0	0	0	0	11	212.6	19.3	4	3		
LAC DU FLAMBEAU	LITTLE ST. GERMAIN	ONEIDA	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	4	103.1	25.8	3	3		
LAC DU FLAMBEAU	MIMOCQUA	ONEIDA	0	0	0	2	1	4	4	4	4	6	8	6	4	2	3	5	4	5	3	1	1	0	65	1347.1	20.7	34	19		
LAC DU FLAMBEAU	NORTH/SOUTH TWIN	VILAS	0	0	0	0	1	0	1	3	1	2	2	4	1	1	3	3	2	1	1	1	0	0	28	812.6	21.9	18	11		
LAC DU FLAMBEAU	PICKEREL	ONEIDA	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	2	40.5	20.2	1	0		
LAC DU FLAMBEAU	PIKE	PRICE	0	0	0	3	6	6	7	5	7	5	2	0	0	0	0	1	1	0	0	0	0	0	43	688.8	19.3	2	2		
LAC DU FLAMBEAU	PREQUE ISLE	VILAS	0	0	0	0	1	3	6	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	15	217.1	14.5	0	0		
LAC DU FLAMBEAU	ROUND	PRICE	0	0	0	1	3	6	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	44.2	14.7	0	0		
LAC DU FLAMBEAU	SQUAN	ONEIDA	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	407.3	19.4	8	4		
LAC DU FLAMBEAU	SQUIRREL	ONEIDA	0	0	0	1	3	0	2	0	0	4	3	1	1	2	0	2	2	0	0	0	0	0	21	416.7	19.8	10	2		
LAC DU FLAMBEAU	STAR	VILAS	0	0	0	0	1	2	1	1	3	3	3	1	3	1	0	2	0	0	0	0	0	0	88	1812.1	21.8	44	23		
LAC DU FLAMBEAU	TOMAHAWK	ONEIDA	0	0	2	1	0	0	2	6	12	10	8	5	6	5	3	5	4	0	0	0	0	0	2	60.1	20.0	2	0		
LAC DU FLAMBEAU	TRUDE	IRON	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	3	49.4	24.7	2	1		
LAC DU FLAMBEAU	TWO SISTERS	ONEIDA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72	1400.4	19.5	20	7		
LAC DU FLAMBEAU	WHITE SAND	VILAS	0	0	3	0	0	0	0	0	0	3	11	17	16	6	4	3	0	0	1	1	0	0	3	59.6	18.8	1	1		
LAC DU FLAMBEAU	WILLOW FLOWAGE	ONEIDA	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	3	59.6	18.8	1	1		
		sub-total:	0	0	8	10	24	45	54	58	77	83	87	81	54	34	27	24	32	21	12	10	17	7	782	14743.2	19.6	288	123		

Table 5. Length frequency of female walleye harvested in northern Wisconsin lakes during the 1987 spring seaparing season. (concluded)

TRIBE	LAKE	COUNTY	INCH GROUP																								NUMBER SEXED	TOTAL AVERAGE	
			9"	10"	11"	12"	13"	14"	15"	16"	17"	18"	19"	20"	21"	22"	23"	24"	25"	26"	27"	28"	29"	30"	31"	INCHES LENGTH		WALLEYE	
MOLE LAKE	BUTTERNUT	FOREST	0	0	0	0	0	0	2	4	3	6	8	1	3	0	0	3	1	2	1	0	0	1	35	744.5	23.6	20	
MOLE LAKE	FRANKLIN	FOREST	0	0	0	0	0	3	7	4	5	1	0	1	1	0	1	0	0	0	2	0	0	25	470.3	23.8	5		
MOLE LAKE	HALSEY	FLORENCE	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	2	48.0	23.0	2		
MOLE LAKE	LAC VIEUX DESERT	VILAS	0	0	0	0	0	0	2	3	5	6	6	3	2	3	0	0	0	0	0	0	0	32	634.4	20.8	14		
MOLE LAKE	METONGA	FOREST	0	0	0	1	0	5	3	4	3	2	3	1	0	1	0	0	0	0	0	0	0	26	454.9	18.7	6		
MOLE LAKE	PELICAN	ONEIDA	0	0	0	0	2	2	4	11	17	10	1	6	7	2	0	0	1	0	0	0	0	65	1247.4	19.8	19		
MOLE LAKE	PINE	FOREST	0	0	0	0	0	0	1	0	1	1	0	0	1	0	0	0	0	0	0	0	0	4	76.9	19.2	1		
MOLE LAKE	PLANTING GROUNO	ONEIDA	0	0	0	0	0	0	2	0	0	0	1	0	1	0	1	0	0	0	0	0	0	5	89.6	19.9	3		
MOLE LAKE	WILLOW FLOWAGE	ONEIDA	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	3	52.1	17.4	1		
sub-total:			0	0	0	1	0	7	6	23	33	28	20	14	18	7	2	3	2	1	2	0	1	197	3826.1	19.4	71		
ST. CROIX	BALSAM	POLK	0	1	4	6	2	3	3	6	3	9	5	6	6	5	7	5	6	6	4	4	3	97	2020.5	25.6	31		
ST. CROIX	BAROON	DOUGLAS	0	0	0	0	2	1	2	2	4	2	1	1	0	0	1	0	0	0	0	0	0	16	273.7	17.1	2		
ST. CROIX	BEAVER DAM	BARRON	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	3	1	0	0	0	6	145.8	26.9	6		
ST. CROIX	HALPHOON	POLK	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	1	0	0	0	0	4	95.2	23.8	3		
ST. CROIX	NORTH SAND	BURNETT	0	0	0	0	0	0	0	0	1	3	4	1	1	0	3	1	0	0	0	0	0	17	349.8	20.8	7		
ST. CROIX	ROUND	POLK	0	0	0	0	0	0	0	1	0	0	0	0	0	2	2	1	5	6	7	1	0	25	638.0	23.6	24		
ST. CROIX	YELLOW	BURNETT	0	0	0	0	0	1	1	1	0	2	2	1	3	1	2	1	1	0	0	0	0	16	376.7	24.3	11		
sub-total:			0	1	4	6	4	6	7	10	6	18	13	10	6	12	11	13	13	19	12	5	3	183	3889.8	21.3	107		
TOTAL:			0	2	10	17	31	70	80	118	128	181	174	181	103	77	83	80	61	80	31	19	23	1486	26028	19.9	687		

Table 6. Number, length (inches), and sex of muskellunge harvested during the 1987 spring spearing season. Data are arranged by tribe, county, and lake.

TRIBE	LAKE	LENGTH	SEX	DATE IN APRIL
LAC COURTE OREILLES	BIG LCO	31.3	F	23
LAC COURTE OREILLES	BIG LCO	34.0	U	23
LAC COURTE OREILLES	BIG LCO	36.5	U	23
LAC COURTE OREILLES	BIG LCO	38.0	M	17
LAC COURTE OREILLES	BIG LCO	39.0	F	23
LAC COURTE OREILLES	CHIPPEWA FLOWAGE	37.5	M	16
LAC COURTE OREILLES	CHIPPEWA FLOWAGE	40.0	M	13
LAC COURTE OREILLES	CHIPPEWA FLOWAGE	41.0	F	15
LAC COURTE OREILLES	GRINDSTONE	30.7	U	18
LAC COURTE OREILLES	GRINDSTONE	31.2	U	18
LAC COURTE OREILLES	GRINDSTONE	32.0	M	23
LAC COURTE OREILLES	GRINDSTONE	32.2	U	18
LAC COURTE OREILLES	GRINDSTONE	32.5	U	23
LAC COURTE OREILLES	GRINDSTONE	33.8	M	22
LAC COURTE OREILLES	GRINDSTONE	34.0	U	24
LAC COURTE OREILLES	GRINDSTONE	34.7	M	22
LAC COURTE OREILLES	GRINDSTONE	35.7	M	23
LAC COURTE OREILLES	GRINDSTONE	37.0	U	23
LAC COURTE OREILLES	GRINDSTONE	46.3	M	23
LAC COURTE OREILLES	ROUND	33.7	M	21
LAC COURTE OREILLES	ROUND	36.9	F	23
LAC COURTE OREILLES	ROUND	38.0	F	21
LAC COURTE OREILLES	ROUND	40.0	M	23
LAC COURTE OREILLES	ROUND	41.2	F	24
LAC COURTE OREILLES	ROUND	42.0	F	22
LAC COURTE OREILLES	ROUND	42.5	F	17
LAC COURTE OREILLES	ROUND	44.9	F	23
LAC COURTE OREILLES	ROUND	46.2	M	20
LAC COURTE OREILLES	ROUND	48.0	F	23
LAC COURTE OREILLES	SAND	29.9	U	12
sub-total:		1120.7		
LAC DU FLAMBEAU	BALLARD	27.6	U	29
LAC DU FLAMBEAU	BALLARD	31.1	U	29
LAC DU FLAMBEAU	BIG (S-24)	35.0	U	22
LAC DU FLAMBEAU	BIG (S-24)	42.5	U	22
LAC DU FLAMBEAU	BIG (S-24)	44.5	U	22
LAC DU FLAMBEAU	BIG ARBOR VITAE	25.5	U	15
LAC DU FLAMBEAU	BIG ARBOR VITAE	29.4	U	15
LAC DU FLAMBEAU	BIG ARBOR VITAE	30.2	U	15
LAC DU FLAMBEAU	BIG ARBOR VITAE	31.2	M	21
LAC DU FLAMBEAU	BIG ARBOR VITAE	31.3	M	15
LAC DU FLAMBEAU	BIG ARBOR VITAE	31.4	U	15
LAC DU FLAMBEAU	BIG ARBOR VITAE	32.1	U	15
LAC DU FLAMBEAU	BIG ARBOR VITAE	32.4	U	15
LAC DU FLAMBEAU	BIG ARBOR VITAE	32.4	U	15

Table 6. (continued)

TRIBE	LAKE	LENGTH	SEX	DATE IN APRIL
LAC DU FLAMBEAU	BIG ARBOR VITAE	32.6	U	15
LAC DU FLAMBEAU	BIG ARBOR VITAE	32.6	U	21
LAC DU FLAMBEAU	BIG ARBOR VITAE	33.0	U	15
LAC DU FLAMBEAU	BIG ARBOR VITAE	34.7	U	15
LAC DU FLAMBEAU	BIG ARBOR VITAE	35.6	U	15
LAC DU FLAMBEAU	BIG ARBOR VITAE	38.0	U	15
LAC DU FLAMBEAU	BIG ARBOR VITAE	38.5	F	21
LAC DU FLAMBEAU	BIG ARBOR VITAE	39.0	U	15
LAC DU FLAMBEAU	BIG ARBOR VITAE	39.0	U	15
LAC DU FLAMBEAU	BIG MUSKELLUNG	29.1	U	23
LAC DU FLAMBEAU	BIG MUSKELLUNG	34.1	U	23
LAC DU FLAMBEAU	BIG MUSKELLUNG	35.2	U	23
LAC DU FLAMBEAU	BIG MUSKELLUNG	37.5	U	23
LAC DU FLAMBEAU	BIG MUSKELLUNG	37.5	U	23
LAC DU FLAMBEAU	BIG MUSKELLUNG	38.5	U	23
LAC DU FLAMBEAU	BIG MUSKELLUNG	40.0	U	23
LAC DU FLAMBEAU	BIG MUSKELLUNG	40.0	U	23
LAC DU FLAMBEAU	BIG MUSKELLUNG	44.8	U	23
LAC DU FLAMBEAU	BIG MUSKELLUNG	45.7	U	23
LAC DU FLAMBEAU	BIG MUSKELLUNG	49.5	U	23
LAC DU FLAMBEAU	BOULDER	31.5	U	27
LAC DU FLAMBEAU	BOULDER	33.1	U	27
LAC DU FLAMBEAU	BOULDER	37.5	U	27
LAC DU FLAMBEAU	BUCKSKIN	35.2	F	20
LAC DU FLAMBEAU	BUCKSKIN	36.2	M	20
LAC DU FLAMBEAU	BUTTERNUT	0.0	U	26
LAC DU FLAMBEAU	BUTTERNUT	0.0	U	26
LAC DU FLAMBEAU	BUTTERNUT	0.0	U	26
LAC DU FLAMBEAU	BUTTERNUT	0.0	U	26
LAC DU FLAMBEAU	BUTTERNUT	0.0	U	26
LAC DU FLAMBEAU	CATFISH	27.9	U	24
LAC DU FLAMBEAU	CATFISH	28.1	U	24
LAC DU FLAMBEAU	CATFISH	28.2	U	24
LAC DU FLAMBEAU	CATFISH	31.8	U	24
LAC DU FLAMBEAU	CATFISH	32.7	U	24
LAC DU FLAMBEAU	CATFISH/CRANBERRY	32.3	U	18
LAC DU FLAMBEAU	CATFISH/CRANBERRY	35.7	F	18
LAC DU FLAMBEAU	CATFISH/CRANBERRY	38.5	U	18
LAC DU FLAMBEAU	CLEAR (ONEIDA)	36.0	U	24
LAC DU FLAMBEAU	CLEAR (ONEIDA)	38.2	U	24
LAC DU FLAMBEAU	CLEAR (ONEIDA)	39.0	U	23
LAC DU FLAMBEAU	CLEAR (ONEIDA)	39.7	U	24
LAC DU FLAMBEAU	CLEAR (VILAS)	36.0	U	25
LAC DU FLAMBEAU	CLEAR (VILAS)	38.0	U	25
LAC DU FLAMBEAU	CLEAR (VILAS)	40.4	U	25
LAC DU FLAMBEAU	CRAB	30.4	U	23
LAC DU FLAMBEAU	CRAB	36.5	U	23
LAC DU FLAMBEAU	CRAB	37.3	U	17
LAC DU FLAMBEAU	CRAB	39.4	U	17
LAC DU FLAMBEAU	CRAB	48.5	F	23
LAC DU FLAMBEAU	CRANBERRY	0.0	U	24
LAC DU FLAMBEAU	FLAMBEAU FLOWAGE	29.9	U	18
LAC DU FLAMBEAU	FLAMBEAU FLOWAGE	33.3	U	17
LAC DU FLAMBEAU	FLAMBEAU FLOWAGE	34.2	M	18
LAC DU FLAMBEAU	FLAMBEAU FLOWAGE	36.0	U	18
LAC DU FLAMBEAU	FLAMBEAU FLOWAGE	37.0	U	18

Table 6. (continued)

TRIBE	LAKE	LENGTH	SEX	DATE IN APRIL
LAC DU FLAMBEAU	GILE FLOWAGE	37.0	U	20
LAC DU FLAMBEAU	HARRIS	36.2	U	26
LAC DU FLAMBEAU	HARRIS	37.5	U	26
LAC DU FLAMBEAU	HARRIS	39.5	U	26
LAC DU FLAMBEAU	ISLAND	34.5	U	23
LAC DU FLAMBEAU	ISLAND	37.0	U	23
LAC DU FLAMBEAU	ISLAND	45.5	U	23
LAC DU FLAMBEAU	KATHERINE	31.2	U	22
LAC DU FLAMBEAU	KATHERINE	32.0	U	22
LAC DU FLAMBEAU	LAURA	16.0	U	29
LAC DU FLAMBEAU	LAURA	20.0	U	29
LAC DU FLAMBEAU	LAURA	20.0	U	29
LAC DU FLAMBEAU	LAURA	41.0	U	29
LAC DU FLAMBEAU	LAURA	43.0	U	29
LAC DU FLAMBEAU	LAURA	45.0	U	29
LAC DU FLAMBEAU	LITTLE ARBOR VITAE	31.4	M	15
LAC DU FLAMBEAU	LITTLE ARBOR VITAE	32.7	M	15
LAC DU FLAMBEAU	LITTLE ARBOR VITAE	34.8	M	15
LAC DU FLAMBEAU	MINOCQUA	32.4	F	22
LAC DU FLAMBEAU	MINOCQUA	34.2	U	22
LAC DU FLAMBEAU	MINOCQUA	34.6	M	16
LAC DU FLAMBEAU	MINOCQUA	34.9	U	16
LAC DU FLAMBEAU	MINOCQUA	38.6	U	16
LAC DU FLAMBEAU	MINOCQUA	41.5	U	16
LAC DU FLAMBEAU	NORTH TWIN	30.3	U	19
LAC DU FLAMBEAU	NORTH TWIN	33.3	U	19
LAC DU FLAMBEAU	NORTH TWIN	34.7	U	19
LAC DU FLAMBEAU	PICKEREL	43.4	U	27
LAC DU FLAMBEAU	PICKEREL	48.8	U	27
LAC DU FLAMBEAU	PIKE	27.4	U	15
LAC DU FLAMBEAU	PIKE	31.2	U	15
LAC DU FLAMBEAU	PIKE	40.0	U	15
LAC DU FLAMBEAU	PRESQUE ISLE	38.0	U	17
LAC DU FLAMBEAU	PRESQUE ISLE	45.0	F	17
LAC DU FLAMBEAU	PRESQUE ISLE	47.0	U	17
LAC DU FLAMBEAU	ROUND	32.7	U	18
LAC DU FLAMBEAU	ROUND	33.6	M	18
LAC DU FLAMBEAU	ROUND	37.5	F	18
LAC DU FLAMBEAU	SHISHEBOGAMA	0.0	U	28
LAC DU FLAMBEAU	SHISHEBOGAMA	0.0	U	28
LAC DU FLAMBEAU	SHISHEBOGAMA	0.0	U	28
LAC DU FLAMBEAU	SHISHEBOGAMA	0.0	U	28
LAC DU FLAMBEAU	SOUTH TWIN	38.0	U	19
LAC DU FLAMBEAU	SQUAW	29.0	M	15
LAC DU FLAMBEAU	SQUIRREL	0.0	U	15
LAC DU FLAMBEAU	SQUIRREL	0.0	U	15
LAC DU FLAMBEAU	SQUIRREL	0.0	U	15
LAC DU FLAMBEAU	SQUIRREL	0.0	U	15
LAC DU FLAMBEAU	SQUIRREL	34.7	F	15
LAC DU FLAMBEAU	SQUIRREL	37.0	F	15

Table 6. (continued)

TRIBE	LAKE	LENGTH	SEX	DATE IN APRIL
LAC DU FLAMBEAU	SQUIRREL	40.5	U	15
LAC DU FLAMBEAU	TOMAHAWK	32.2	M	21
LAC DU FLAMBEAU	TOMAHAWK	33.0	U	17
LAC DU FLAMBEAU	TOMAHAWK	35.7	U	20
LAC DU FLAMBEAU	TOMAHAWK	42.5	U	20
LAC DU FLAMBEAU	TWO SISTERS	33.0	U	26
LAC DU FLAMBEAU	TWO SISTERS	35.0	U	26
LAC DU FLAMBEAU	TWO SISTERS	35.0	M	27
LAC DU FLAMBEAU	TWO SISTERS	36.0	M	27
LAC DU FLAMBEAU	TWO SISTERS	37.0	U	27
LAC DU FLAMBEAU	TWO SISTERS	47.0	F	27
LAC DU FLAMBEAU	WHITE SAND	34.5	U	16
LAC DU FLAMBEAU	WHITE SAND	35.0	U	16
LAC DU FLAMBEAU	WHITE SAND	36.5	U	16
LAC DU FLAMBEAU	WHITE SAND	40.0	U	16
LAC DU FLAMBEAU	WHITE SAND	49.5	U	16
sub-total:		4364.5		
MOLE LAKE	KENTUCK	29.6	U	24
MOLE LAKE	KENTUCK	31.5	U	24
MOLE LAKE	KENTUCK	33.8	M	27
MOLE LAKE	KENTUCK	34.1	M	27
MOLE LAKE	KENTUCK	35.2	M	27
MOLE LAKE	KENTUCK	37.0	U	24
MOLE LAKE	LAC VIEUX DESERT	0.0	U	24
MOLE LAKE	LAC VIEUX DESERT	28.4	U	20
MOLE LAKE	LAC VIEUX DESERT	29.2	U	20
MOLE LAKE	LAC VIEUX DESERT	31.2	U	20
MOLE LAKE	PELICAN	36.7	M	14
MOLE LAKE	PELICAN	48.0	F	16
MOLE LAKE	PLANTING GROUND	0.0	U	15
MOLE LAKE	PLANTING GROUND	33.5	U	16
sub-total:		408.2		
STC	ROUND	33.1	U	14
STC	ROUND	38.0	M	8
STC	ROUND	39.5	U	14
STC	YELLOW	31.5	U	18
STC	YELLOW	34.2	U	17
STC	YELLOW	35.0	M	10
STC	YELLOW	36.5	M	9
STC	YELLOW	37.0	U	19
STC	YELLOW	37.2	M	9
STC	YELLOW	37.5	U	17
STC	YELLOW	39.0	U	18
STC	YELLOW	39.0	U	18

Table 6. (continued)

TRIBE	LAKE	LENGTH	SEX	DATE IN APRIL
STC	YELLOW	41.0	U	12
STC	YELLOW	43.0	M	10
STC	YELLOW	46.0	F	10
STC	YELLOW	46.5	U	17
	sub-total:	614		
	TOTAL:	6507.4		

TABLE 7. NUMBER OF TRIBAL MEMBERS WHO SPEARED IN NORTHERN WISCONSIN LAKES ON VARIOUS DATES DURING THE 1987 SPRING SPEARING SEASON.

TRIBE	COUNTY	LAKE	DATE IN APRIL														TOTAL # OF SPEARER-NIGHTS								
			8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23	24	25	26	27	28	29
BAD RIVER	DOUGLAS	BARDON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BAD RIVER	PRICE	BUTTERNUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BAD RIVER	DOUGLAS	LOWER EAU CLAIRE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BAD RIVER	BAYFIELD	MIDDLE EAU CLAIRE	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BAD RIVER	BAYFIELD	MAKERAOON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BAD RIVER	DOUGLAS	NEBADAMON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BAD RIVER	BAYFIELD	OMEN	4	0	2	0	0	0	0	0	0	0	0	0	0	0	0	3	4	8	4	11	0	0	0
BAD RIVER	BAYFIELD	UPPER EAU CLAIRE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUB-TOTAL:			5	0	2	0	0	0	0	0	0	0	0	0	0	0	0	3	4	6	4	11	2	6	43
LAC COURTE OREILLES	SAMYER	CHIPPEWA FLOWAGE	5	3	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0	0
LAC COURTE OREILLES	SAMYER	GRINDSTONE	0	3	0	0	1	2	3	0	0	0	0	0	0	0	0	8	5	2	0	0	0	0	0
LAC COURTE OREILLES	SAMYER	LAC COURTE OREILLES	0	0	3	5	0	0	2	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0
LAC COURTE OREILLES	SAMYER	NELSON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LAC COURTE OREILLES	SAMYER	ROUND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LAC COURTE OREILLES	SAMYER	SAND	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LAC COURTE OREILLES	SAMYER	WHITEFISH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUB-TOTAL:			5	9	5	10	8	4	14	11	7	7	7	7	7	7	7	14	20	14	7	0	0	0	140
LAC DU FLAMBEAU	VILAS	BALLARD	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LAC DU FLAMBEAU	VILAS	BIG (BOULDER-824)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LAC DU FLAMBEAU	VILAS	BIG (CISCO-34)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LAC DU FLAMBEAU	VILAS	BIG ARBOR VITAE	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LAC DU FLAMBEAU	VILAS	BIG WISHELLUNGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0
LAC DU FLAMBEAU	VILAS	BIG SAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LAC DU FLAMBEAU	VILAS	BIG RT. GERMAIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LAC DU FLAMBEAU	VILAS	BIRCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LAC DU FLAMBEAU	VILAS	SOULDER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LAC DU FLAMBEAU	ONEIDA	BUCKSKIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LAC DU FLAMBEAU	PRICE	BUTTERNUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LAC DU FLAMBEAU	VILAS	CATFISH/CRANBERRY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0
LAC DU FLAMBEAU	ONEIDA	CLEAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LAC DU FLAMBEAU	ONEIDA	CLEAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LAC DU FLAMBEAU	VILAS	CRAB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LAC DU FLAMBEAU	ONEIDA	DAM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LAC DU FLAMBEAU	IRON	FLAMBEAU FLOWAGE	11	33	41	88	2	11	5	8	4	10	11	2	0	0	0	0	0	0	0	0	0	0	0
LAC DU FLAMBEAU	IRON	OILE FLOWAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LAC DU FLAMBEAU	VILAS	HARRIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LAC DU FLAMBEAU	VILAS	HIGH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LAC DU FLAMBEAU	VILAS	ISLAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LAC DU FLAMBEAU	ONEIDA	KATHERINE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LAC DU FLAMBEAU	ONEIDA	KAWAQUEBADA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LAC DU FLAMBEAU	VILAS	LAURA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LAC DU FLAMBEAU	VILAS	LITTLE ARBOR VITAE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LAC DU FLAMBEAU	VILAS	LITTLE ST. GERMAIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LAC DU FLAMBEAU	ONEIDA	MINOCCA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LAC DU FLAMBEAU	VILAS	NORTH TWIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LAC DU FLAMBEAU	ONEIDA	PICKEREL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LAC DU FLAMBEAU	PRICE	PIKE	13	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LAC DU FLAMBEAU	VILAS	PLUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LAC DU FLAMBEAU	VILAS	PRESQUE ISLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LAC DU FLAMBEAU	PRICE	ROUND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(concluded)

TABLE 8. Number of boat-hours by tribal members in northern Wisconsin lakes during the 1987 spring spearing season.

TRIBE	COUNTY	LAKE	Date in April																												TOTAL # OF BOAT-HOURS
			6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30				
LAC DU FLAMBEAU	OHEIDA	SAND	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
LAC DU FLAMBEAU	OHEIDA	SHISHOGONAMA	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
LAC DU FLAMBEAU	PRICE	SOLBERG	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
LAC DU FLAMBEAU	VILAS	SOUTH TWIN	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
LAC DU FLAMBEAU	OHEIDA	AGUJAN	2.7	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
LAC DU FLAMBEAU	OHEIDA	SQUIREL	28.2	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
LAC DU FLAMBEAU	VILAS	STAR	0.0	4.2	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	0.0	0.0	0.0	0.0	0.0	0.0			
LAC DU FLAMBEAU	OHEIDA	TOMAHAWK	0.0	0.0	25.4	0.0	0.0	0.0	7.2	28.0	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			
LAC DU FLAMBEAU	IRON	TRUDE	0.0	0.0	0.0	0.0	0.0	0.0	3.4	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	0.0			
LAC DU FLAMBEAU	OHEIDA	TWO SISTERS	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
LAC DU FLAMBEAU	VILAS	WHITE SAND	0.0	12.0	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	0.0	0.0	0.0	0.0	0.0	0.0			
LAC DU FLAMBEAU	OHEIDA	WILLOW FLOWAGE	0.0	0.0	0.0	0.0	0.0	0.0	5.8	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	0.0			
sub-total:			110.6	182.0	157.8	139.3	40.8	60.1	99.3	49.8	90.6	48.3	30.3	32.3	21.2	11.9	19.8	1.8											978.9		
MOLE LAKE	VILAS	BIG SAND	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
MOLE LAKE	OHEIDA	BIG STONE	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
MOLE LAKE	FOREST	BUTTERNUT	4.4	10.0	3.0	0.0	0.0	3.4	0.0	0.0	0.0	11.0	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			
MOLE LAKE	FOREST	FRANKLIN	0.0	0.0	0.0	0.0	4.5	0.0	0.0	17.4	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			
MOLE LAKE	FLORENCE	HALSEY	1.2	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
MOLE LAKE	FOREST	KENTUCK	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
MOLE LAKE	VILAS	LAC VIEUX DESERT	6.0	11.8	0.0	0.0	0.0	0.0	5.7	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	0.0			
MOLE LAKE	FOREST	METONGA	0.0	0.0	3.2	0.0	0.0	2.8	11.8	10.5	5.4	4.4	0.0	1.6	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			
MOLE LAKE	FOREST	PELICAN	8.4	22.5	30.4	2.5	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	0.0	0.0	0.0	0.0			
MOLE LAKE	FOREST	PINE	0.0	0.0	5.3	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	0.0	0.0	0.0	0.0	0.0			
MOLE LAKE	OHEIDA	PLANTING GROUND	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
MOLE LAKE	LAWLADE	UPPER POST	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
MOLE LAKE	OHEIDA	WILLOW FLOWAGE	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
sub-total:			20.0	57.0	47.9	32.2	19.1	6.2	17.5	27.8	5.4	18.4	13.7	3.9	3.1	2.6	0.0											232.0			
ST CROIX	POLK	BALSAM	0.0	0.0	18.7	0.0	0.0	13.8	2.0	0.0	9.3	14.8	20.8	0.0	0.0	12.0	26.7											116.1			
ST CROIX	DOUGLAS	BARDON	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
ST CROIX	BARRON	BEAVER DAM	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
ST CROIX	BURNETT	BIG SAND	0.0	0.0	0.0	0.0	0.0	2.5	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	0.0	0.0			
ST CROIX	POLK	HALF MOON	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
ST CROIX	BURNETT	NORTH SAND	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
ST CROIX	POLK	ROUND	11.7	17.0	0.0	0.0	0.0	0.0	0.0	13.0	0.0	17.5	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			
ST CROIX	WASHINGTON	SHELL	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
ST CROIX	BURNETT	UPPER CLAM	3.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	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			
ST CROIX	BURNETT	YELLOW	2.2	8.3	13.1	0.0	5.8	0.0	0.0	0.0	4.5	3.3	2.7	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			
sub-total:			17.5	25.9	29.8	0.0	11.3	14.8	17.8	13.8	34.8	19.3	24.1	2.7	3.3	20.3	44.7											280.1			
TOTAL:			17.5	25.9	29.8	5.6	19.7	22.4	43.8	102.6	248.4	227.1	189.4	85.8	68.1	111.1	119.7	87.0	82.1	47.7	44.8	23.9	26.1	21.8	4.2			1716.9			

Table 9. Catch per effort (number of walleye/boat-hour) of spears during the 1987 spring spearing season. (concluded)

TRIBE	COUNTY	LAKE	Date in April																												TOTAL
			8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	CPE					
LAC DU FLAMBEAU	ONEIDA	BAND	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
LAC DU FLAMBEAU	ONEIDA	SHISHOGONAMA	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
LAC DU FLAMBEAU	PRICE	SOLBERG	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
LAC DU FLAMBEAU	VILAS	SOUTH TWIN	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
LAC DU FLAMBEAU	ONEIDA	SQUAH	25.2	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
LAC DU FLAMBEAU	ONEIDA	SQUIRREL	18.3	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
LAC DU FLAMBEAU	VILAS	STAR	0.0	24.0	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	0.0	0.0	0.0	0.0	0.0	0.0			
LAC DU FLAMBEAU	ONEIDA	TOMAHAWK	0.0	0.0	14.5	0.0	0.0	0.0	14.3	11.4	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			
LAC DU FLAMBEAU	IRON	TRUDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7	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			
LAC DU FLAMBEAU	ONEIDA	TWO SISTERS	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
LAC DU FLAMBEAU	VILAS	WHITE SAND	0.0	19.4	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	0.0	0.0	0.0	0.0	0.0	0.0			
LAC DU FLAMBEAU	ONEIDA	WILLOW FLOWAGE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	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			
MOLE LAKE	VILAS	BIG SAND	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
MOLE LAKE	ONEIDA	BIG STONE	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
MOLE LAKE	FOREST	BUTTERNUT	4.5	5.5	3.7	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	10.5	13.8	23.8	21.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
MOLE LAKE	FOREST	FRANKLIN	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
MOLE LAKE	FLORENCE	HALBEY	8.3	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
MOLE LAKE	FOREST	KENTUCK	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
MOLE LAKE	VILAS	LAC VIEUX DEBERT	5.3	8.8	8.2	8.1	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	0.0	0.0	0.0	0.0			
MOLE LAKE	FOREST	METONGA	0.0	0.0	0.0	0.0	0.0	0.0	0.4	13.2	10.0	8.1	18.8	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			
MOLE LAKE	FOREST	PELICAN	1.0	8.5	7.5	8.4	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	0.0	0.0	0.0	0.0			
MOLE LAKE	FOREST	PIKE	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
MOLE LAKE	ONEIDA	PLANTING GROUND	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
MOLE LAKE	LAMLADE	UPPER POST	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
MOLE LAKE	ONEIDA	WILLOW FLOWAGE	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
ST CROIX	POLK	BALSAM	0.0	0.0	4.0	0.0	0.0	0.0	4.1	0.5	0.0	1.1	6.5	4.8	0.0	0.0	0.0	4.8	2.8									4.0			
ST CROIX	DOUGLAS	BARDON	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0		
ST CROIX	BARRON	BEAVER DAM	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8		
ST CROIX	BURNETT	BIG SAND	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
ST CROIX	POLK	HALF MOON	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
ST CROIX	BURNETT	NORTH SAND	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
ST CROIX	POLK	ROUND	1.1	0.8	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.2	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		
ST CROIX	WASHBURN	SHELL	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
ST CROIX	BURNETT	UPPER CLAM	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
ST CROIX	BURNETT	YELLOW	0.0	2.8	1.8	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	0.0	0.0	0.0	0.0	0.0	2.8		