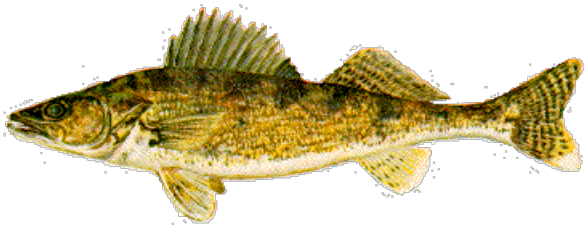
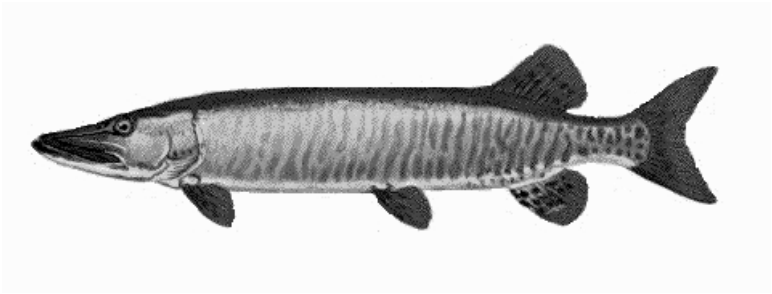


Wisconsin Department of Natural Resources
2011-2012 Ceded Territory
Fishery Assessment Report



Thomas A. Cichosz

Administrative Report # 73

Treaty Fisheries Assessment Unit
Bureau of Fisheries Management
Madison, Wisconsin
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Walleye illustration Virgil Beck

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF TABLES

LIST OF APPENDICES

INTRODUCTION

The northern portion of Wisconsin, encompassing 22,400 square miles and including all or parts of 30 counties, was ceded by the Lake Superior Chippewa Tribes to the United States in the Treaties of 1837 and 1842 (Figure 1). Although the lands were ceded to the United States, the Chippewa Tribes retained hunting, fishing, and gathering rights throughout this area (USDI 1991). The Wisconsin Ceded Territory contains 77% of Wisconsin's lakes accounting for 53% of the total inland lake surface acreage in Wisconsin (Staggs et al. 1990). Of lakes within the Ceded Territory, over 900 contain walleye (*Sander vitreus*) and more than 600 contain musky (*Esox masquinongy*), and the vast majority of naturally reproducing walleye and musky populations are found within the Ceded Territory.

Figure 1. Map of Wisconsin showing the Ceded Territory (shaded).

Walleye and muskellunge are tremendously popular with Wisconsin anglers and are important economically. Chippewa tribal members rely on these same fisheries for preservation of their cultural heritage and as a food source. In 1983, the United States Court of Appeals for the Seventh Circuit affirmed the rights of six Wisconsin Chippewa Bands (Bad River, Lac Courte Oreilles, Lac du Flambeau, Sokaogon, Red Cliff, and St. Croix) to fish off-reservation waters in the Wisconsin Ceded Territory. Tribal fishing uses traditional methods (e.g. spearing and netting) as determined by Treaties of 1837 and 1842 between the Bands and the United States government. Since affirmation of tribal fishing rights in 1983 the Wisconsin Department of Natural Resources (WDNR) has worked to integrate tribal harvest opportunities with sport fisheries in the Ceded Territory.

To facilitate and manage shared tribal and recreational angler harvest, an intensive data collection and analysis effort began in 1987. The program evolved as knowledge of unique aspects of the Ceded Territory shared fisheries increased, and developed into the current program in 1990. The primary goal is to collect information essential to protecting Ceded Territory fish populations from over-exploitation by the combined tribal and recreational fisheries.

As part of this effort WDNR works with the Great Lakes Indian Fish and Wildlife Commission (GLIFWC) to establish safe harvest quotas for walleye and muskellunge and to monitor the shared fisheries throughout the Ceded Territory. The majority of tribal harvest occurs during spring while walleye and muskellunge are congregated in shallow water to spawn and are readily taken by spear. A smaller number are harvested throughout the remainder of the year with a variety of capture methods including spearing, gill netting, fyke netting, set-lining, and angling. Netting and spearing are highly efficient methods and, unlike low efficiency methods such as angling, are not self-regulating (Beard et al. 1997, Hansen et al. 2000). Based on the inclusion of high efficiency tribal harvest in these fisheries, over-exploitation is a strong possibility in the absence of intensive management and could result in long-lasting and potentially irreversible damage.

Wisconsin DNR gathers data from a representative sample of lakes throughout the Ceded Territory each year in order to assess abundance and stability of walleye populations. Walleye populations are evaluated by WDNR using three primary methods: spring adult and total population estimates, fall age-0 (young-of-year) relative abundance estimates, and creel surveys of angler catch and

harvest. When combined, these methods provide information on the current harvestable population, an indication of the future harvestable population, and the degree of exploitation in the walleye fishery. Wisconsin DNR also conducts muskellunge and black bass *Micropterus* spp. population estimates each year and estimates harvest of these species via creel surveys; WDNR does not quantify recruitment of these species via young-of-year (YOY) surveys.

Population estimates are critical to the management of Ceded Territory fisheries. Accurate population estimates allow calculation of "safe harvest" levels that allow harvest while minimizing the potential of jeopardizing a species' future abundance or persistence.

Creel surveys provide vital information about the use of fisheries by recreational anglers, including angling effort, catch, and harvest; Estimates from surveyed lakes can be extrapolated across larger areas (e.g. Ceded Territory). When coupled with population estimates, creel harvest data can be used to estimate angler exploitation for individual species. The WDNR treaty fisheries program focuses primarily on game species (walleye, muskellunge, largemouth *Micropterus salmoides* and smallmouth *Micropterus dolomieui* bass, and northern pike *Esox lucius*), but creel information on all species is recorded.

In support of this effort, data is collected and provided by GLIFWC and the United States Fish and Wildlife Service (USFWS) which conduct spring adult population estimates and fall age-0 surveys on additional lakes each year. Tribal harvest data is made available by GLIFWC which censuses open-water tribal harvest of all species and conducts periodic creel surveys to assess winter harvest of muskellunge through the ice.

This annual report summarizes WDNR efforts related to management of the shared Ceded Territory fishery from early 2011 through early 2012. In doing so, it reports on one 'annual cycle' of work related to management of these fisheries. The typical annual cycle begins with establishment of safe harvest levels prior to spring spearing activities, includes conducting creel surveys, population estimates, and YOY walleye surveys on selected lakes, and results in summarization of tribal and angler exploitation rates for Ceded Territory lakes[1].

[1] For the purposes of this report 'Tribal' refers to catch and harvest by traditional methods used by tribal fishers (e.g. spearing and netting); 'Angler' indicates catch and harvest by hook and line, and may include tribal members angling during open seasons if interviewed during creel surveys.

METHODS

Estimation of Population Size

With more than 900 walleye lakes and 600 muskellunge lakes in the Wisconsin Ceded Territory it is logistically impossible to obtain precise population estimates from all lakes in a single year. In addition fish populations in general and walleye populations in particular are extremely variable and can change dramatically from year to year. Therefore, WDNR selects a number of lakes each year for walleye population estimates and corresponding nine-month creel surveys[2]. The lakes sampled by the WDNR within the Ceded Territory during 2011-12 were chosen using a stratified random design considering size, historic level of tribal harvest, and primary walleye recruitment source. Of the lakes sampled each year, four are 'trend lakes' which are evaluated every three years to provide meaningful data on temporal trends within walleye populations; trend lakes sampled in 2011 were Two Sisters (Oneida Co.), Big Arbor Vitae (Vilas Co.), Pine (Iron Co.) and Balsam (Polk Co.) lakes. In addition, at least one large lake or lake chain is chosen to be surveyed each year. In 2011 the Chippewa Flowage (Sawyer Co.), Big St. Germain (Vilas Co.) and Pelican (Oneida Co.) lakes and Lake Wissota (Chippewa Co.) were large waters sampled.

The continuing randomized survey of lakes throughout the history of this program (Appendix A) provides data necessary for successful management of the shared fisheries. Data from lake surveys is used to estimate walleye population size and derive safe harvest levels, estimate tribal and angler harvest and exploitation rates, examine temporal and spatial trends in walleye populations and angler effort, and maintain up to date characterizations of population status for each lake.

Walleye

Walleye spawning population estimates[3] for various lakes in the Ceded Territory were made using a standard mark-recapture methodology. Walleyes were initially captured for marking using fyke nets shortly after ice out. Each fish was measured (total length; inches and tenths) and marked with one

[2] Creel surveys are conducted from the first Saturday in May through early March and correspond to the Wisconsin open season for game fish species. The month of November was excluded from analyses due to poor ice conditions and low angler effort.

[3] Spawning population estimates may be less than adult population sizes if all adults do not spawn in every year. The degree to which this occurs in Wisconsin is currently unknown and may vary by lake.

of two lake specific fin clip; two clips were used in each lake to classify fish as either ‘adult’ or ‘juvenile’. Adult (mature) walleyes were defined as all fish 15” or longer and all fish for which sex could be determined (regardless of length). Walleye of unknown sex less than 15” long were classified as juvenile (immature). In lakes where previous estimates of walleye spawner abundance were available, the goal was to mark 10% of the anticipated spawning population. Where no preliminary abundance estimate was available, at least one walleye per acre of lake surface area was targeted for marking. Marking continued until the target number was reached or spent females began appearing in the fyke nets.

Two electrofishing recapture runs were conducted in each lake and the data used to estimate abundance of the spawning or total walleye population. Due to rapid dispersal and decreased vulnerability of adult walleye following spawning, only mark-recapture results from the first electrofishing recapture run were used to estimate spawning walleye abundance; results from the second electrofishing recapture run were used to augment those results when estimating total walleye population abundance.

Walleyes were initially recaptured with AC electrofishing gear within one week (typically 1-4 days) after netting and marking were completed. In each lake the entire shoreline (including islands) was sampled to ensure equal vulnerability of marked and unmarked walleyes to capture. All walleyes in the captured were measured and examined for marks; in most lakes any unmarked walleyes collected in the first electrofishing run were fin clipped accordingly for the lake and fish maturity. A second whole-shore electrofishing recapture run was conducted approximately 1-4 weeks after the first electrofishing run.

Based on electrofishing recapture data, population estimates were calculated with the Chapman (1951) modification of the Petersen Estimator as:

$$N = \frac{(M+1)(C+1)}{(R+1)}$$

where N was the population estimate, M was the number of fish marked and released, C was the total number of fish captured and examined for marks in the recapture sample, and R was the total number of marked fish observed in C.

The Chapman Modification method was used because it provides more accurate population estimates in cases when R is relatively small (Ricker 1975). Walleye population and variance estimates

were calculated by length-class (≤ 11.9", 12-14.9", 15-19.9", and ≥ 20.0") and summed accordingly to estimate adult and total walleye abundance.

Fish population size structure is described using proportional stock density (PSD) and relative stock density (RSD) as reviewed by Anderson et al. (1996). Walleye size data were analyzed to compare proportions of both quality (PSD) and preferred (RSD) length fish gathered in spring surveys (April and May); data were limited to spring surveys to minimize bias associated with fish growth throughout the year and to best characterize the size structure of walleye populations near the outset of the harvest seasons. For the purpose of this report stock, quality and preferred walleye lengths were set at 12, 15 and 18 inches, respectively. Walleye length data were taken from WDNR statewide PSD/RSD database. Proportional stock density (PSD) is calculated as:

$$PSD = \frac{\text{number of fish} \geq 15 \text{ inches}}{\text{number of fish} \geq 12 \text{ inches}} X\ 100$$

Relative stock density (RSD) is calculated as:

$$RSD = \frac{\text{number of fish} \geq 18 \text{ inches}}{\text{number of fish} \geq 12 \text{ inches}} X\ 100$$

Muskellunge

Muskellunge population estimates were conducted over a two-year period, with marking in year-1 and recapture in year-2. In year-1, muskellunge were marked during fyke netting and electrofishing efforts throughout the sampling season. All muskellunge 20" and larger were given a primary fin clip (the same clip given to adult walleye and bass). Muskellunge less than 20" long were given an alternate fin-clip (generally top caudal). In year-2, muskellunge were recaptured using fyke nets in mid-May, to coincide with the muskellunge spawning season. Adult muskellunge population estimates (considered all sexable fish of any size, plus all fish of unknown sex ≥30" at the time of marking) were made using Chapman modification of the Petersen estimate:

$$N = \frac{(M+1)(C+1)}{(R+1)}$$

Where N is the estimated adult population size; M is the total number of muskellunge marked in the lake in year-1 equal to or larger in length than the smallest sexable fish; C is the number of muskellunge re-captured in year-2, excluding fish smaller than the minimum length counted in year-1 plus 2 inches; and R is the number of marked fish recaptured (Wisconsin Technical Working Group 1999; Margenau and AveLallemant 2000).

Largemouth and Smallmouth Bass

In a subset of sampled lakes designated as "comprehensive survey" lakes, largemouth *Micropterus salmoides* and smallmouth *Micropterus dolomieu* bass encountered during fish surveys were marked by fin clips. Bass larger than 12.0" were given the same primary (adult) fin-clip as was given to walleye in the same lake; bass 8.0- 11.9" were given the secondary (juvenile) fin-clip for the lake. In these lakes, fyke nets were set just after ice-out in the spring and again after the first electrofishing recapture run. A total of four electrofishing surveys were conducted in each lake. The first electrofishing run was conducted within a week of pulling the early fyke nets. The second run was conducted approximately two weeks after the first electrofishing run. Third and fourth electrofishing runs were conducted at approximately weekly intervals thereafter between mid-late May and mid-June. The entire shoreline of the lake (including islands) was sampled. Bass populations were estimated after both the third and fourth runs. For each bass species population estimates were calculated for various size classes (8.0-13.9", 14.0-17.9" and ≥18.0") using the same Chapman modification of the Petersen estimator as described for walleyes. The recapture run yielding the population estimate with the lowest coefficient of variation is reported.

Establishment of Safe Harvest

The Wisconsin joint fishery is managed by calculating total allowable catch for walleye and muskellunge on a lake-by-lake basis. Angler bag limits ranging between 1 and 5 walleye/day in the Ceded Territory are set on an annual basis using a "sliding bag-limit" system in which bags are determined based upon tribal declarations and harvest (Appendix B). "Safe harvest" is set such that the risk of exceeding 35% exploitation for walleye or 27% for muskellunge is less than 1-in-40 (Hansen 1989;

Hansen et al. 1991). This risk-management system differs from a quota system, which would potentially close fisheries once a harvest cap was reached.

Safe harvest levels are set on all Ceded Territory walleye and muskellunge lakes using the most accurate population estimates available. The most reliable estimates are clearly taken from mark-recapture estimates performed in the same year for which safe harvest is calculated. However, because the temporal overlap of the spearing season and spring population estimate sampling make this logistically impossible, these population estimates are used to estimate abundance for the following two years. In addition, given the year-to-year variability associated with fish populations, safety factors are incorporated to account for the largest potential decrease between years (Hansen et al. 1991).

Population estimates older than two years are not considered to accurately represent a lake's current population and are not directly used to set safe harvest. In this case, an estimate is calculated from a regression model using lake acreage as a predictor of population abundance (Hansen 1989). Each year new population estimates are incorporated into the regression model but no estimates are removed. Lakes with multiple population estimates are averaged before being entered into the regression model.

Three regression models are used depending on the primary source of walleye recruitment in the lake (Nate et al. 2000). Separate models are used for: (A) lakes sustained primarily by natural reproduction (NR; Figure 2), (B) lakes sustained primarily through stocking efforts (ST; Figure 3), and (C) lakes with low density populations maintained through intermittent natural reproduction (REM; Figure 4). Refer to Appendix C for a complete description of recruitment code designations used for lakes throughout the Wisconsin Ceded Territory. These models are used to set safe harvest yearly for the majority of the walleye lakes in the Ceded Territory.

A similar method is employed to set safe harvest for muskellunge. Because muskellunge mark-recapture surveys are conducted over a two year period, a population estimate for a given lake is employed to directly set safe harvest only once. In the absence of a recent population estimate, a regression model is used to make an estimate of muskellunge abundance. As with walleye, population predictions in this model are based on lake acreage, but a single model is used for all muskellunge waters in the Ceded Territory (Figure 5).

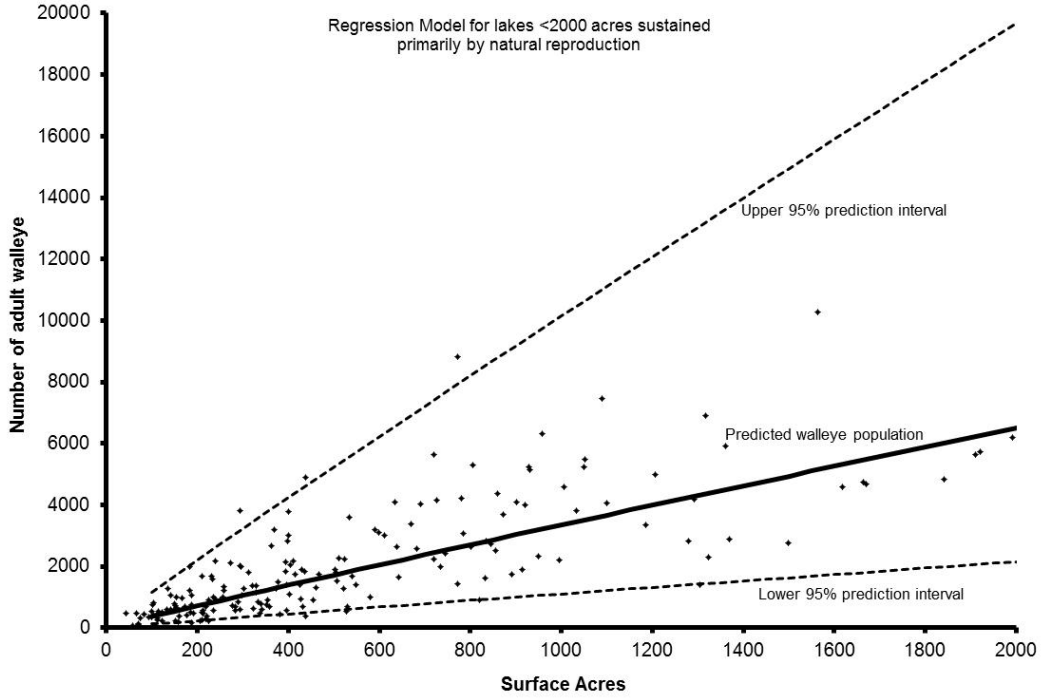

Figure 2. Regression model used to set 2011 safe harvest levels for lakes sustained primarily by natural reproduction (applies to all lake sizes; only lakes <2000 acres are shown for illustrative clarity).

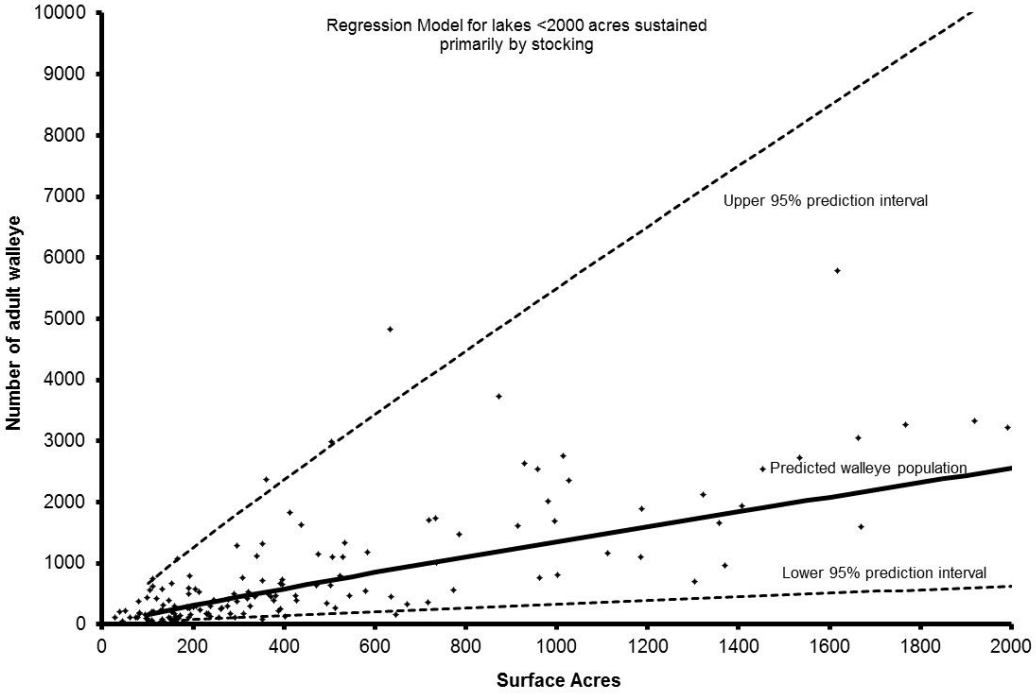

Figure 3. Regression model used to set 2011 safe harvest levels for lakes <2000 acres sustained primarily by stocking (applies to all lakes; only lakes <2000 ac. are shown for illustrative clarity).

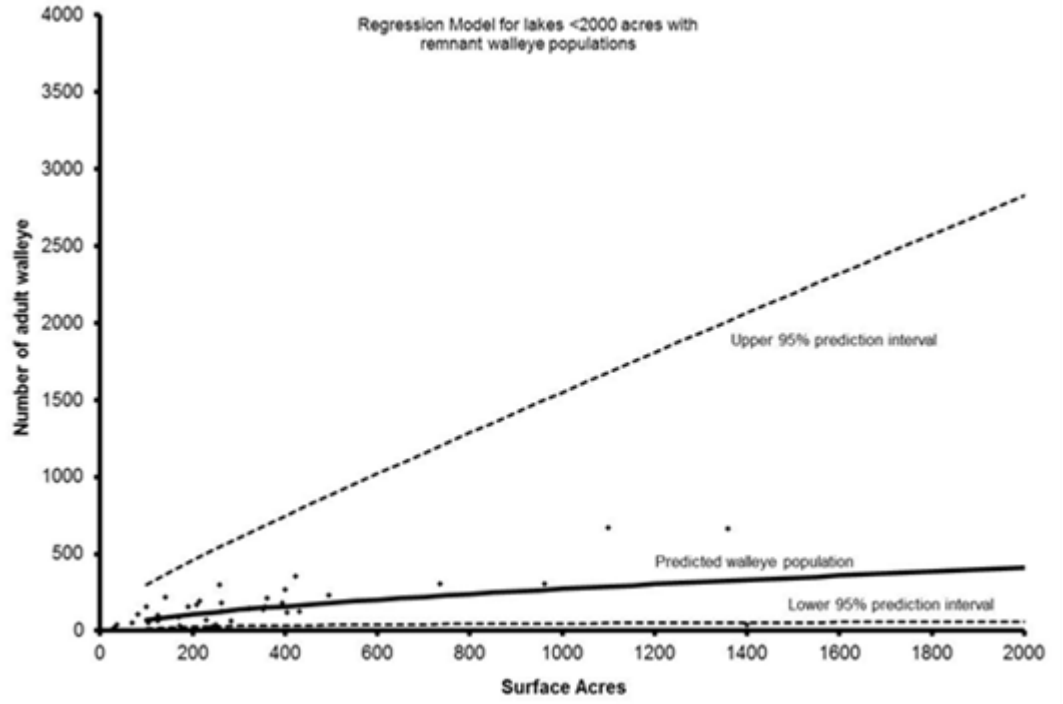

Figure 4. Regression model used to set 2011 safe harvest levels for lakes <2000 acres with remnant walleye populations (applies to all lakes; only lakes <2000 acres are shown for illustrative clarity).

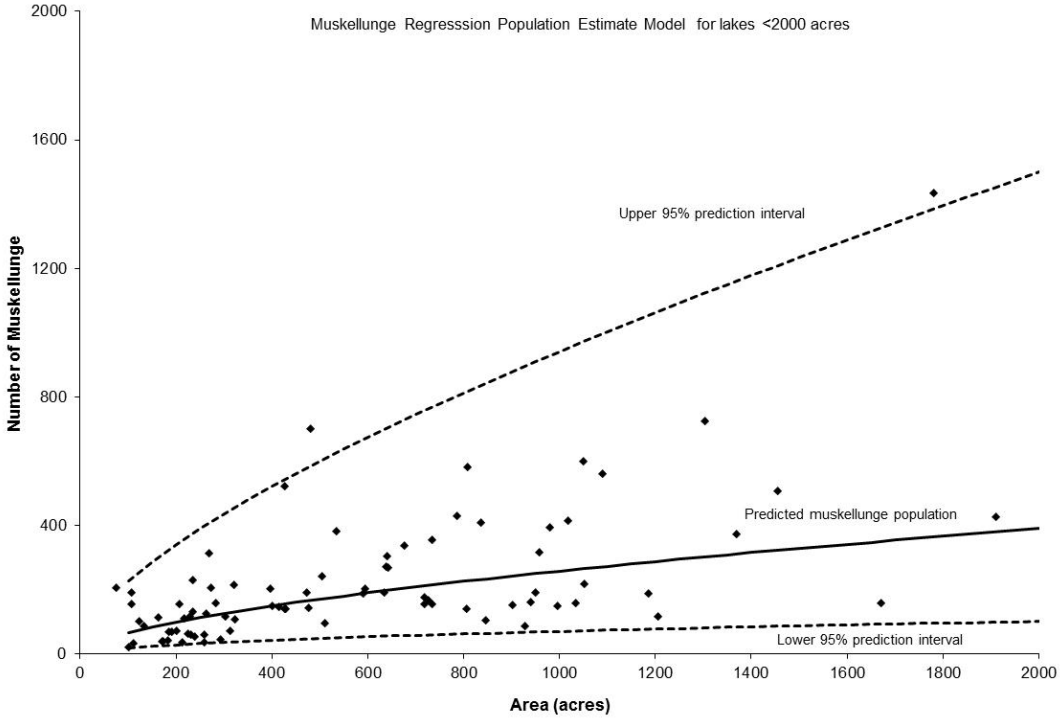

Figure 5. Regression model used to set 2011 safe harvest levels for muskellunge populations in lakes <2000 acres (applies to all lakes; only lakes <2000 acres are shown for illustrative clarity).

Estimating Fishing Effort and Harvest

Tribal Harvest and Exploitation

In lakes where current walleye population estimates are available, tribal harvest numbers are used in conjunction with population estimates to estimate tribal exploitation of walleye populations. Tribal harvest numbers for individual lakes are supplied to WDNR by GLIFWC and encompass all tribal harvest methods used (e.g. spring or winter spearing, netting). Tribal exploitation is estimated by dividing the total tribal walleye harvest within each lake by the estimated adult walleye population size for that same lake.

Angler Harvest and Exploitation - Creel Surveys

Creel surveys are generally conducted each year in the same lakes in which a walleye population estimate is done. Coordinating efforts in this way allows for year-long recovery in the creel of fish marked during spring population estimates, and subsequently allows for estimation angler exploitation of walleye.

WDNR creel surveys use a random stratified roving access design (Beard et al. 1997; Rasmussen et al. 1998). The surveys were stratified by month and day-type (weekend / holiday or weekday), and creel clerks conducted their interviews at random within these strata. Surveys were conducted on all weekends and holidays, and two to three randomly chosen weekdays per week. Angler effort was recorded twice daily based on instantaneous counts of angler activity.

Clerks counted the number of anglers and recorded effort, catch, harvest, and targeted species from anglers completing their fishing trip. Clerks also measured harvested fish and recorded any fin-clips observed. Only completed-trip interview information was used for analyses. Information from interviews was expanded over the appropriate stratum to provide an estimate of total effort, catch, and harvest of each species in each lake for the year. Creel data were summarized according to lake size, population recruitment source and current state regulations (Appendix D). In cases where lakes were connected (as either defined or undefined chains), creel clerks were not necessarily present at each individual lake on a given day; however, during the interview clerks collected information specific to lakes within the chain thereby enabling creel related estimates to be determined for individual lakes.

Angling effort was estimated for each stratum and summed across all strata to estimate total angler effort for each lake (angler hours/lake). Angler catch and harvest (hours/fish) rates were calculated for each game fish species encountered, giving an indication of average angler success and providing an index of the relative abundance of each species. Species-specific catch and harvest rates were calculated using only species-specific fishing effort. General catch and harvest rates were calculated using total angler effort, regardless of the species targeted.

Tribal and angler walleye exploitation rates were calculated in lakes where adult population estimates and creel surveys were conducted. Angler exploitation rates for adult walleye were calculated by dividing the estimated number of marked fish harvested by the total number of marked fish present in the lake (R/M; Ricker 1975). Although anglers are able to harvest immature walleye in some waters, only adult walleye exploitation rates were calculated. Tribal exploitation was calculated as the total number of adult walleyes harvested divided by the adult population estimate (C/N; Ricker 1975). Total adult walleye exploitation rates were calculated by summing angling and tribal exploitation.

Young-of-Year Walleye Surveys

Electrofishing for YOY walleyes was done after sunset in early autumn, beginning when water temperatures had fallen below 70° F. In most cases, the entire shoreline of a lake was electrofished and all sub-adult walleyes were examined and measured. Two-sample t-tests were used to test various hypotheses: that YOY density (fish/mile shocked) observed in natural and stocked model lakes was equal during 2011, that within each recruitment model the YOY density observed in 2011 did not differ from the average over the previous 21 years (1990-2010), and that in stocked model lakes YOY density did not differ between those lakes that were stocked and those that were not stocked during 2011. A general linear model was used to evaluate the effects of recruitment model (natural or stocked), year, and the year*model interaction on YOY walleye/mile over time. The interaction term was evaluated as indicative of significant trends over time in YOY walleye/mile for lakes within one or both recruitment models.

Hansen et al. (2004) updated a previous analysis by Serns (1982) to establish a relationship between the number of YOY walleyes collected per mile of shoreline electrofished and their lake-wide density (#/acre) where:

$$Density = 0.0345 * (Catch\ per\ mile)^{1.564}$$

The Hansen et al. (2004) metric of YOY density is used in evaluation of differences between various lake classes (e.g. Natural or Stocked recruitment model lakes). Use of the Hansen et al. metric for this purpose began with the 2006-2007 annual report; in years prior to 2006 the Serns index was used for the same purpose.

To assess any potential for natural reproduction, a portion of lakes classified as 'stocked', 'remnant', or where the primary component of year class strength is uncertain are selected to receive fish with an internal oxytetracycline (OTC) otolith mark. A proportion of the YOY fish sampled from these lakes in the fall were sacrificed to assess the relevant contribution of stocking to the number of surviving YOY fish and to provide evidence of any contribution by natural reproduction.

Due to corresponding water level declines in seepage lakes across much of northern Wisconsin, we compared differences in mean YOY walleye density between drainage and seepage lakes under both pre-drought and drought conditions. The objective was characterize any difference in YOY abundance in seepage lakes due to drought conditions; data from drainages lakes where water levels have not changed appreciably under drought conditions were used as a pseudo-control for comparative purposes. A GLM Anova was used to evaluate differences in YOY abundance (mean YOY/mile shocked) tied to hydrologic class (drainage/seepage), time period (pre-drought or drought) and the interaction of these terms.

RESULTS AND DISCUSSION

Population Estimates and Densities

In 2011, spawning walleye populations were estimated in 21 lakes, ranging in size from 102 to 15,300 acres and representing a range of walleye recruitment categorizations and angler regulations (Table 1). Due to sample size restrictions, separate analyses were conducted to evaluate differences in spawner population size across (1) primary recruitment source (natural, stocked, or remnant; refer to Appendix C) and (2) angling regulations in place during the 2011-12 angling season. Statistical comparisons were made for spawner density (fish/acre) which provides a better comparative measure across lakes of varying size (relative to spawner abundance).

All population estimates were reviewed by a Technical Working Group (TWG) for reliability. Factors considered in determining reliability of estimates included numbers of fish marked and/or recaptured by sex and in total and coefficients of variation associated with derived estimates. In cases where population estimates are not deemed reliable by the TWG, estimates are rejected for use in setting safe harvest levels. For consistency across data groups, any population estimates rejected by the TWG for other purposes were also excluded from summaries and analyses presented in this report.

Table 1. Lakes surveyed by WDNR crews in spring 2011, with corresponding information on adult (spawning) walleye population abundance and density. Only lakes with population estimates accepted for use by the TWG are shown.

WBIC[1]	County	Lake	Acres	Size Limit (in)	Recruitment code	Recruitment Model	Adult Pop. Estimate	Adult Density (#/Acre)
2079800	Barron	Upper Turtle	438	18	C-NR	Natural	469	1.07
2742700	Bayfield	Upper Eau Claire	996	15	C-NR	Natural	558	0.56
2152800	Chippewa	Wissota	6,300	Slot14-18	NR	Natural	6,437	1.02
653700	Florence	Patten	255	1>14	NR	Natural	250	0.98
2949200	Iron	Pine	312	1>14	NR	Natural	2,490	7.98
1595600	Oneida	Muskellunge	284	1>14	NR	Natural	421	1.48
1579900	Oneida	Pelican	3,585	15	NR	Natural	8,632	2.41
1588200	Oneida	Two Sisters	719	15	C-NR	Natural	995	1.38
2399700	Sawyer	Chippewa Fl.	15,300	None	C-NR	Natural	46,982	3.07
2046500	Sawyer	Windfall	102	15	NR	Natural	1,402	13.75
1545600	Vilas	Big Arbor Vitae	1,090	1>14	NR	Natural	8,515	7.81
2339900	Vilas	Escanaba	293	28	NR	Natural	3,767	12.86
2340500	Vilas	White Birch	117	15	C-NR	Natural	165	1.41
2914800	Ashland	English	244	15	ST	Stocked	187	0.77
417400	Oconto	Archibald	393	15	C-ST	Stocked	459	1.17
2620600	Polk	Balsam	2,054	15	C-ST	Stocked	1,528	0.74
2340700	Vilas	Ballard	505	15	C-ST	Stocked	2,004	3.97
1591100	Vilas	Big St Germain	1,617	15	C-ST	Stocked	4,843	2.99
1630100	Vilas	Black Oak	584	15	C-ST	Stocked	507	0.87
1593400	Vilas	Lost	544	15	C-ST	Stocked	497	0.91
1494600	Lincoln	Alexander	677	Slot20-28	NR-2	Remnant	923	1.36

1 - WBIC is a Water Body Identification Code unique to each lake.

Spawning Adult Walleye Abundance

Adult spawning walleye abundance estimates averaged 4,382 walleye (3.3/acre) across all lakes with population estimates successfully completed during 2011 (Table 1). Average abundance estimates for natural-model lakes (Avg. 6,237, range 165-46,982) were greater than in stocked- (Avg. 1,432, range 187-4,843) or remnant-model (Alexander Lake, 923) lakes during 2011 (Appendix E). Spawning walleye abundance was lowest (165 adult walleye) in White Birch Lake, Vilas County, and highest in the Chippewa Flowage, Sawyer County (46,982 adult walleye; Table 1).

Average spawner density estimates for natural-model lakes sampled in 2011 (Avg. 4.29/acre, range 0.56-13.75) was greater than in stocked-model lakes (Avg. 1.63/acre, range 0.74-3.97). Spawner density in the single remnant-model lake sampled during 2011 (Alexander Lake) was 1.36/acre (Appendix E). Spawning walleye density was lowest (0.56/acre) in Upper Eau Claire Lake, Bayfield County, and highest in Windfall Lake, Sawyer County (13.75/acre; Table 1).

Inconsistent with most previous years, differences observed during 2011 in walleye spawner density between lakes in different recruitment classes (natural, stocked, or remnant) were not statistically significant (General Linear Model, P=0.35; Figure 8). Similarly, no significant differences in spawner density were noted between lakes with varying harvest regulation classes surveyed; in 2011 the majority of lakes included in the analysis had 15" minimum regulations in place (12 lakes), with only five "exempt" regulation classifications, one 18" minimum, one 28" minimum, one 14-18" protected slot and one 20-28" protected slot.

There is no statistically significant trend in walleye spawner density in natural-model lakes (GLM, P=0.15) in the Ceded Territory since 1995[4] (Figure 6). A significant downward trend in density of stocked-model walleye waters since 1995 was noted (GLM, Slope=-.069, P=0.031; Figure 7). The observed statistical trend may not be 'real'; it is probably due to one exceptionally high density (12/acre) observed in Buckskin Lake, Oneida County in 1996. Although in the stocked model in 1996, Buckskin Lake showed substantive natural reproduction at least a few years prior (the lake was shifted from code ST to C-ST in 1993), and natural reproduction dominated in the lake by 1998 when it was moved to the

[4] Data prior to 1995 was excluded due to a difference in the protocol used to select lakes for assessment (Hewett No Date)

natural recruitment model. The very high density observed in Buckskin Lake in 1996 was probably a function of ongoing natural recruitment at the time although that is not known for certain.

Excluding the three WDNR research lakes, 18 lakes sampled in 2011 had at least one historic WDNR adult walleye population estimate (Table 2). Of the 10 lakes or chains sampled in 2011 with historic population estimates in the natural recruitment model, only one showed an increased population abundance relative to the prior estimate, whereas nine had decreased populations relative to the prior estimate. Big Arbor Vitae Lake (Vilas Co.) showed the a population increase of 35 percent since 2008; White Birch Lake (Vilas Co.) showed the most marked population decrease of 87 percent since 2001. Of seven lakes sampled in 2011 with historic population estimates in the stocked recruitment model, two had increased in population abundance, and five had decreased population abundance since the previous survey. Big St. Germain Lake (Vilas Co.) saw the greatest population increase of 6 percent since the prior survey in 1994; Ballard Lake (Vilas Co.) showed the most marked population decrease of 61 percent since 2001. Alexander Lake in Lincoln Co., the only remnant-model lake sampled during 2011 which had prior population estimates available, saw a 20 percent increase in the abundance of spawning walleye since 2000 when the prior estimate was done.

Information in Table 2 is intended to present current walleye population levels concurrently with past observations, but is not suitable (nor intended) for defining or illustrating trends in walleye populations. Fish populations in general and walleye populations in particular are extremely variable and can change dramatically from year to year, making interpretation of values in Table 2 difficult at best. This inherent variability in walleye populations is readily evident in Table 2 where many of the lakes with more than two estimates show both positive and negative changes in population levels over time.

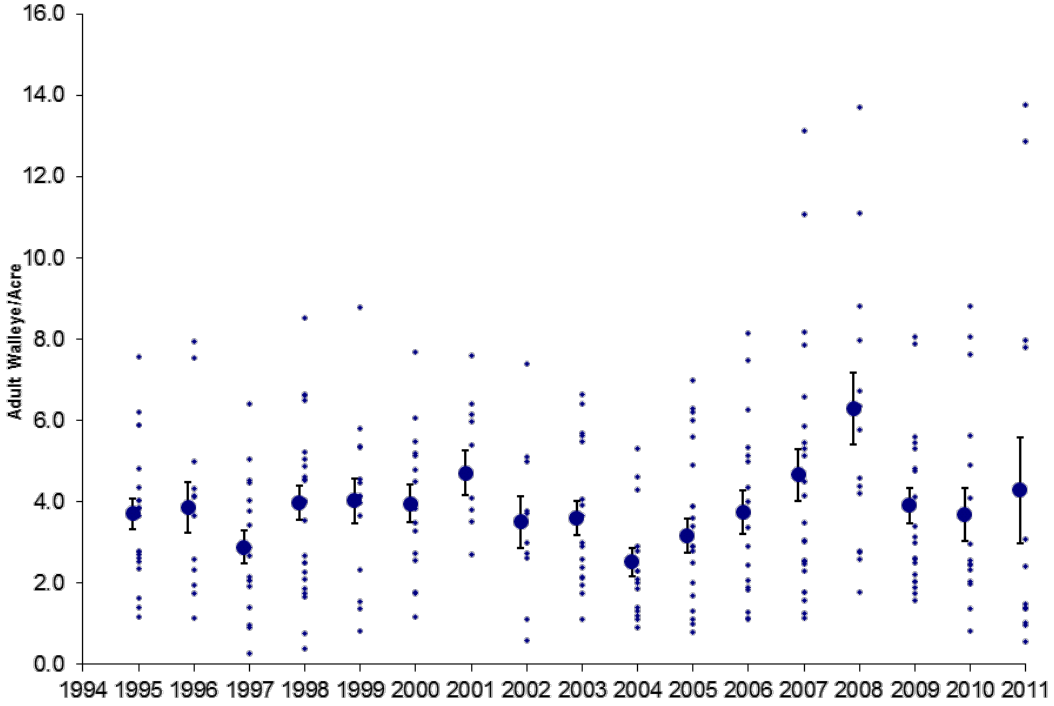

Figure 6. Adult walleye population density estimates recorded in Wisconsin Ceded Territory Lakes with populations sustained primarily by natural reproduction, 1995 – 2011. Small circles represent individual lakes; large circles represent yearly means (±SE).

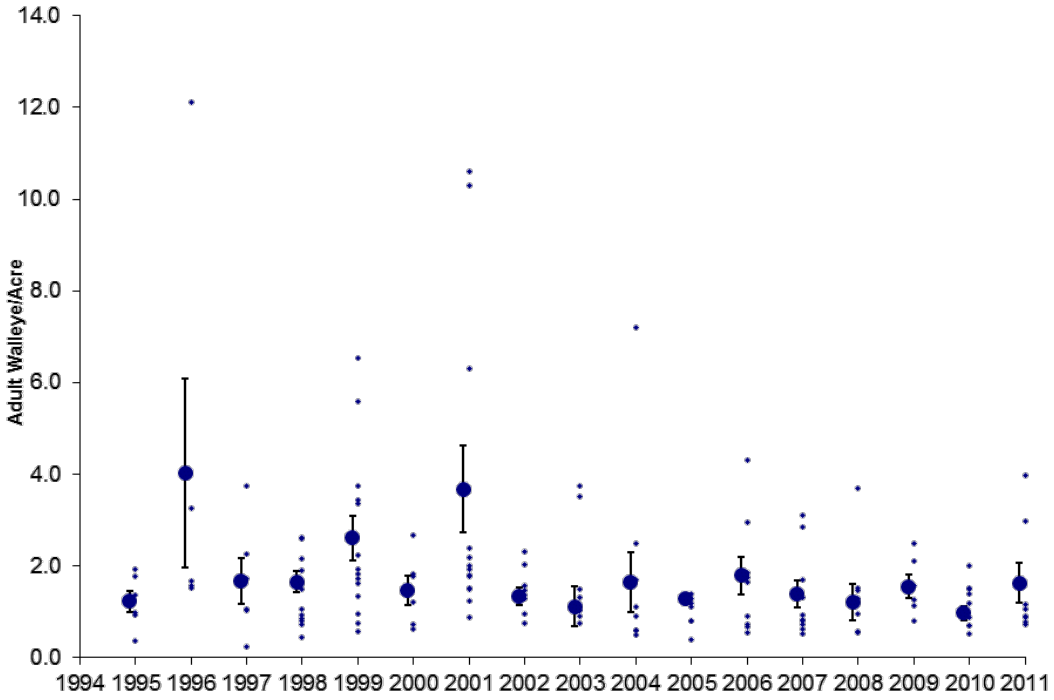

Figure 7. Adult walleye population density estimates recorded in Wisconsin Ceded Territory Lakes with populations sustained primarily by stocking, 1995 – 2011. Small circles represent individual lakes; large circles represent yearly means (±SE).

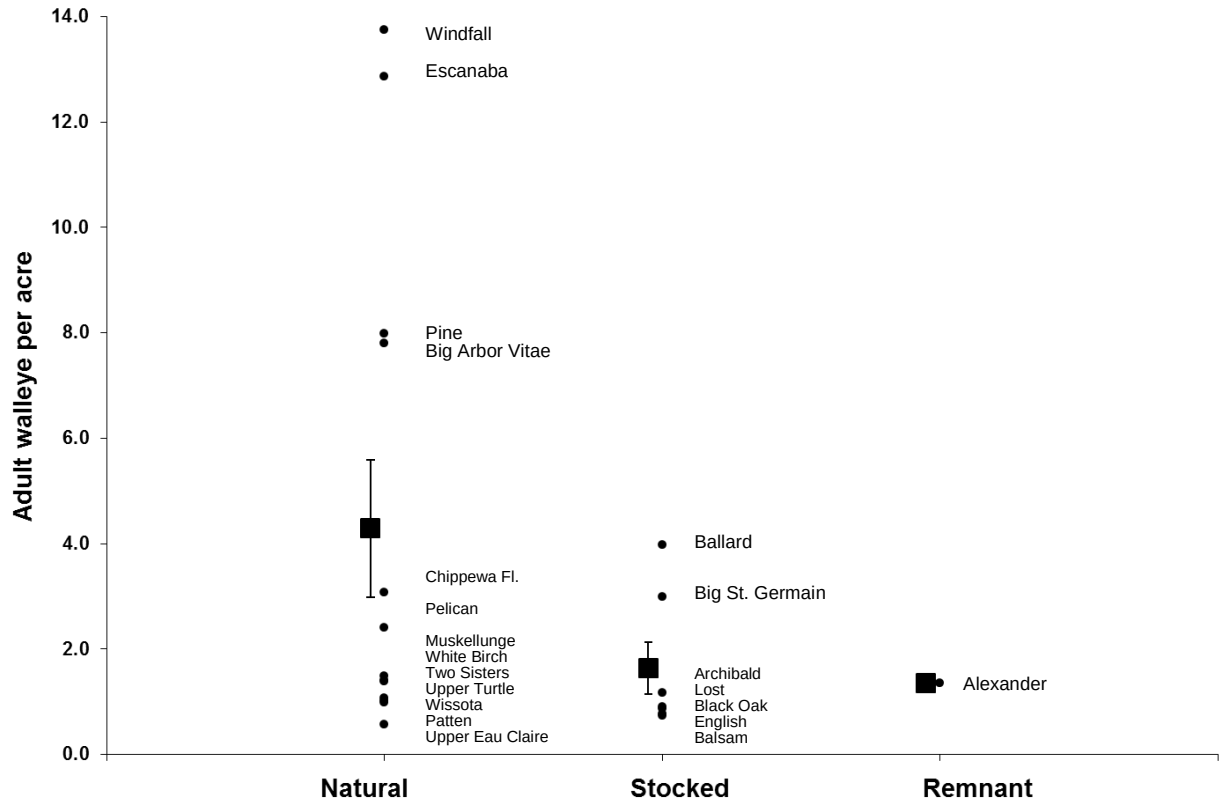

Figure 8. Adult walleye density estimates for lakes sampled by WDNR in spring 2011 based on primary population recruitment source.

Table 2. Comparison of current and historic walleye population estimates and percent change, by recruitment model, for lakes surveyed during 2011.

Lake	Acres	Year	Recruit. Code	Adult PE	Density (#/acre)	%Change
Natural Model Lakes						
Big Arbor Vitae	1090	2011	NR	8,515	7.8	35.3
		2008	NR	6,290	5.8	-8.4
		2005	C-NR	6,860	6.3	-30.4
		1993	NR	9,864	9.0	
Chippewa Fl.	15300	2011	C-NR	46,982	3.1	-41.4
		1990	NR	80,202	5.2	
Patten	255	2011	NR	250	1.0	-57.4
		2004	NR	584	2.3	-9.6
		2000	NR	649	2.5	
Pelican	3585	2011	NR	8,632	2.4	-19.1
		1990	NR	10,684	3.0	
Pine	312	2011	NR	2,490	8.0	-9.5
		2008	NR	2,752	8.8	57.5
		2005	NR	1,738	5.6	12.4
		2002	NR	1,555	5.0	10.1
		1998	NR	1,412	4.5	-35.7
		1992	NR	2,196	7.0	
Two Sisters	719	2011	C-NR	995	1.4	-49.8
		2008	C-NR	1,976	2.7	-1.8
		2005	C-NR	2,004	2.8	-25.8
		2002	C-NR	2,714	3.8	98.5
		1998	ST	1,367	1.9	-40.3
		1992	ST	2,245	3.2	
Upper Eau Claire	996	2011	C-NR	558	0.6	-72.0
		2004	C-NR	2,015	2.0	-14.7
		1993	C-NR	2,415	2.3	
Upper Turtle	438	2011	C-NR	469	1.1	-68.8
		1999	C-ST	1,503	3.4	
White Birch	117	2011	C-NR	165	1.4	-86.7
		2001	C-ST	1,189	10.6	293.7
		1991	C-ST	315	2.7	
Wissota	6300	2011	NR	6,437	1.0	-41.4
		1996	NR	10,484	1.7	

Table continued on next page.

Table 2. Continued.

Stocked Model Lakes						
Archibald	393	2011	C-ST	459	1.2	-31.4
		2007	C-ST	671	1.7	
Ballard	505	2011	C-ST	2,004	4.0	-61.5
		2001	C-ST	5,200	10.3	99.1
		1991	ST	2,613	5.2	
Balsam	2054	2011	C-ST	1,528	0.7	-22.3
		2008	C-ST	1,956	1.0	19.0
		2005	C-ST	1,738	0.8	-45.2
		2002	C-ST	3,000	1.5	-2.6
		1998	C-ST	3,081	1.5	-9.4
		1994	C-	3,399	1.7	
Big St Germain	1617	2011	C-ST	4,843	3.0	6.1
		1994	C-	4,558	2.8	
Black Oak	584	2011	C-ST	507	0.9	-42.9
		2008	C-ST	890	1.5	-54.7
		1999	ST	1,965	3.4	185.2
		1993	ST	689	1.2	
English	244	2011	ST	187	0.8	-52.7
		1999	C-ST	397	1.6	1.3
		1993	ST	392	1.6	
Lost	544	2011	C-ST	497	0.9	5.3
		1998	ST	470	0.9	
Remnant Model Lakes						
Alexander	677	2011	NR-2	923	1.4	20.5
		2000	NR	764	1.1	

Spawning Adult walleye size structure

Spawning adult walleye populations were estimated for each lake by length class in both natural (Figure 9) and stocked (Figure 10) production model lakes. Natural model lakes generally had higher walleye spawner densities than stocked model lakes, although the size structure sampled in stocked lakes tended to be larger relative to that in natural model lakes, particularly those with the highest adult walleye densities.

In natural model lakes spawning walleye abundance and size structures were highly variable (Figure 9). The majority of natural model lakes sampled had overall densities ranging from <1 to nearly 8 fish/acre. Four of 13 sampled lakes had walleye densities exceeding 4 fish/acre; of those 3 have specialized harvest regulations in place (Escanaba Lake=28" minimum; Big Arbor and Pine lakes = no minimum size and only 1 fish>14"). Walleye spawning in the 7-11.9 inch category were very limited in relative abundance in most natural production lakes sampled (except Pine and Windfall). Lakes that had substantial proportions of the overall walleye population made up of smaller fish tended to be those with specialized regulations although it is unclear if this is directly related to the harvest regulations or other factors (e.g. sporadic recruitment).

In stocked model lakes spawning walleye abundance and size structures were less variable than that observed in natural model lakes (Figure 10). With the exception of Ballard and Big St. Germain lakes (Vilas Co.; 3.97 and 2.99/acre, respectively), walleye densities observed in stocked model lakes were less than 1.5 fish/acre. Despite lower fish densities than those observed in natural model lakes, stocked model lakes generally had a high percentage (e.g. >50%) of the spawning population made up of relatively large fish (>15") available for angler harvest under general statewide regulations.

Data were available for calculation of PSD and RSD-18 for nine natural, five stocked, and five remnant-model lakes sampled in 2011 (Table 3). In lakes where walleye regulations involve a 15" minimum size limit, calculating PSD as the percent of stock sized fish over 15" essentially makes this value a comparative tool to evaluate the percentage of harvestable fish across lakes.

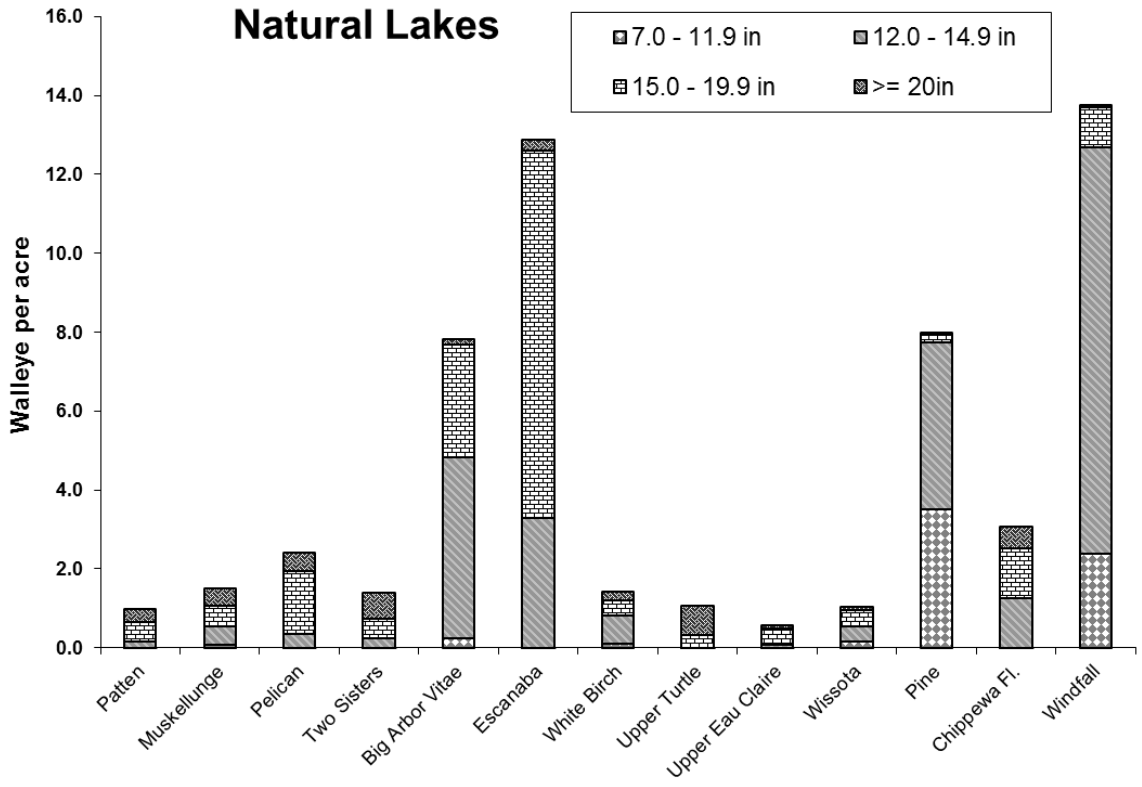

Figure 9. Size distribution of spawning walleye sampled in natural production model lakes during 2011.

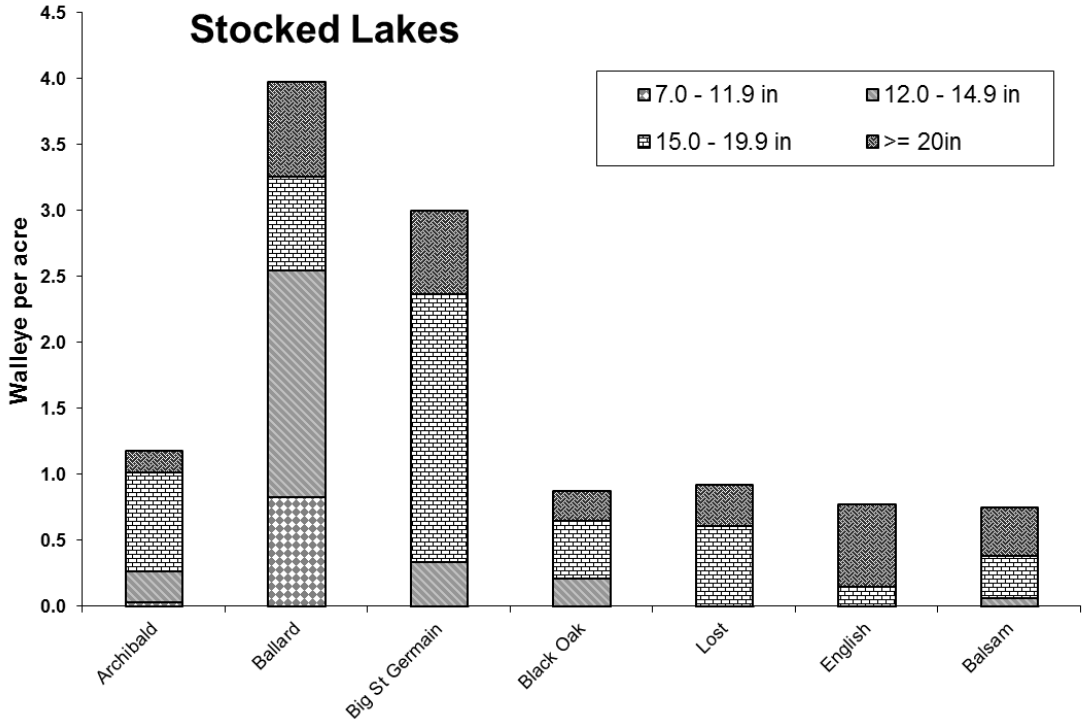

Figure 10. Size distribution of spawning walleye sampled in stocked production model lakes during 2011.

Table 3. Walleye Proportional and Relative Stock Density values for lakes surveyed in spring, 2011.

County	Lake	Acres	Recruitment Code	Walleye Regulation	PSD	RSD-18
Natural Recruitment Lakes						
Chippewa	Chippewa Falls Fl.	282	NR	Slot 14-18	10	0
Chippewa	Lake Wissota	6,300	NR	Slot 14-18	38	5
Eau Claire	Dells Pond	739	NR	15	36	9
Iron	Gile Flowage	3,384	NR	1>14	38	4
Oneida	Katherine Lake	590	NR	1>14	9	3
Price	Lower Park Falls Fl.	71	NR	15	22	0
Price	Pixley Flowage	334	NR	15	53	40
Rusk	Dairyland Reservoir	1,745	NR	15	14	2
Sawyer	Windfall Lake	102	NR	15	11	0
Stocked Recruitment Lakes						
Bayfield	Long Lake	263	ST	15	100	100
Price	Musser Flowage	563	ST	None	100	100
Rusk	Amacoy Lake	278	ST	15	100	100
Vilas	Lost Lake	544	C-ST	15	95	51
Vilas	Lost Lake	544	C-ST	15	98	77
Remnant Population Lakes						
Ashland	Upper Park Falls Fl.	431	REM	15	0	0
Oneida	Killarney Lake	421	O-ST	15	30	20
Oneida	Stone Lake	188	REM	15	75	50
Price	Crowley Flowage	422	NR-2	15	75	50
Taylor	Wellington Lake	43	O-ST	15	59	21

In natural model lakes observed PSD and RSD-18 values were highly variable, with PSDs ranging from 9 to 53 percent and RSD-18s ranging from 0 to 40 percent (Table 3). In stocked model lakes observed PSD values showed less variability than was noted in natural model lakes although RSDs were more variable than PSDs. In stocked model lakes PSDs exceeded 90 percent and RSD values exceeded 50 percent in all sampled waters. Size structure in remnant model lakes sampled in 2011 showed a large degree of variability between lakes, similar to that noted for natural model lakes. In remnant model lakes PSDs ranged from 0-75 percent and RSDs ranged from 0-50 percent.

In 2011, average size structure was generally smallest in natural model lakes, largest in stocked lakes, and intermediate in remnant model lakes (Figure 11). Mean PSDs for natural, stocked, and remnant model lakes were 24, 99 and 48, respectively. Mean RSD-18s for natural, stocked, and remnant model lakes were 6, 28 and 86, respectively. Differences in PSD and RSD-18 values across lakes in various recruitment models could be caused by any number of potential factors including, but not limited to, high or low recruitment levels of younger/smaller fish, differing angler regulations, harvest patterns and harvest levels, or differences in survival or year class strength leading to differences in the relative abundance of quality (PSD, ≥15") or preferred (RSD, ≥18") sized fish in some lakes relative to others.

Mean annual PSD values in natural model lakes has remained relatively static over time; the regression of natural model lakes over time has a slope of -0.64 but is not statistically significant ($p=.44$; Figure 12). Mean PSD in stocked model lakes regressed over time has a positive slope (0.50) which is also not statistically relevant ($p=.69$). In both regressions only mean annual data points with a minimum of three associated lake observations were included in this analysis; this precluded inclusion of data from some years in natural and stocked model analyses, and prevented analysis of PSD in remnant model lakes.

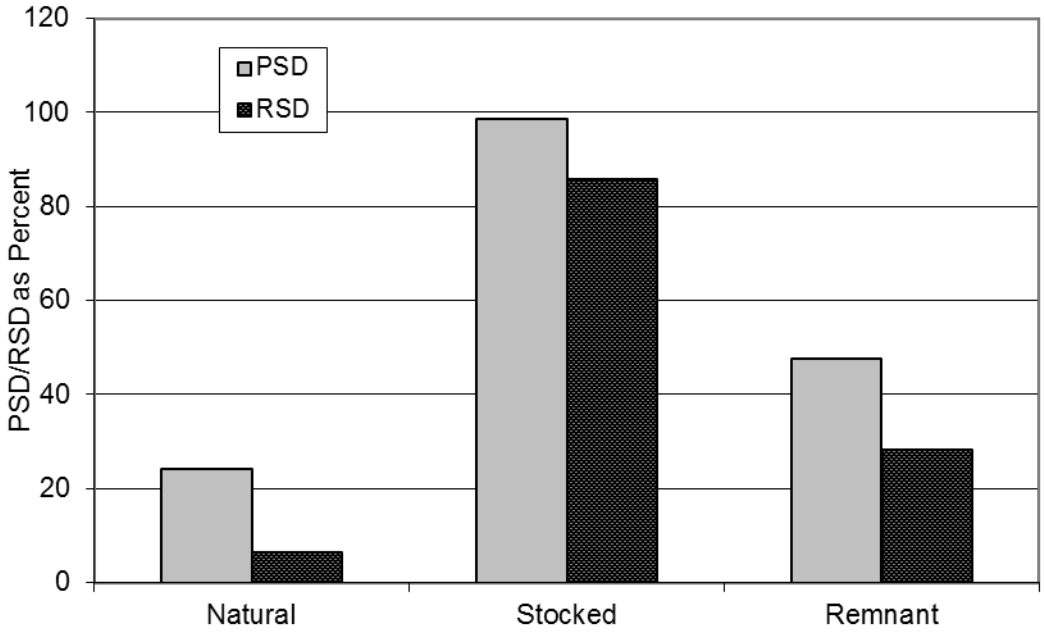

Figure 11. Comparison of mean PSD and RSD-18 values across lakes in various walleye recruitment models for lakes sampled in 2011.

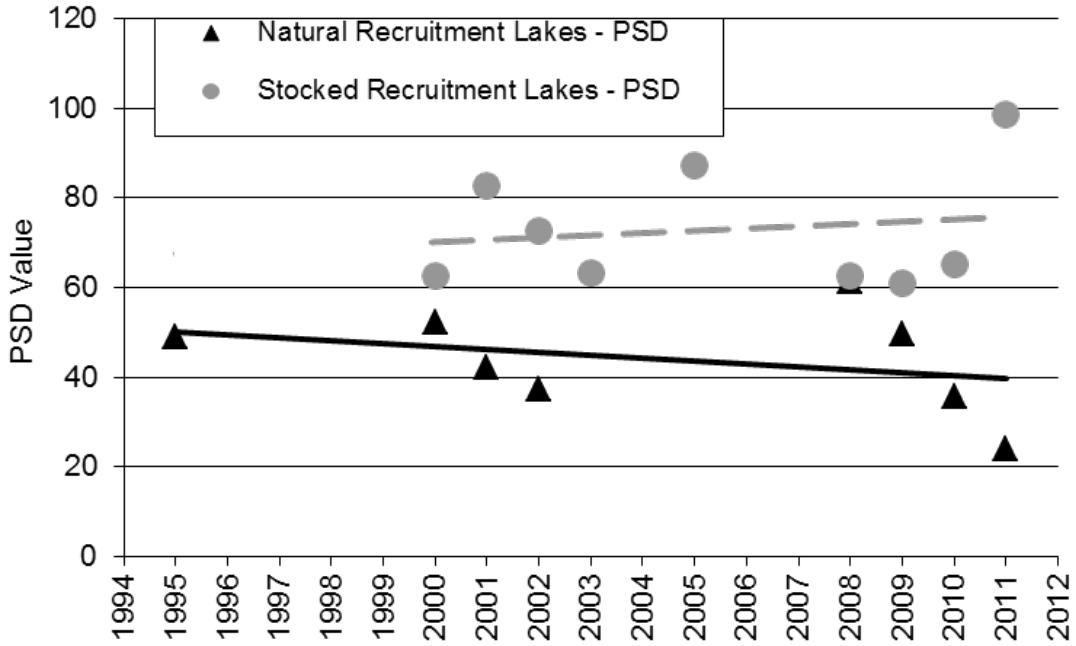

Figure 12. Trends in PSD values observed for walleye in Ceded Territory lakes since 1995.

Muskellunge Abundance

Adult muskellunge population and density estimates were completed in nine Ceded Territory waters during spring 2011 (Table 4, Appendix F). Population estimates completed in 2011 reflect 2010 population numbers because of the two-year mark-recapture time span used to derive estimates. Muskellunge densities ranged between 0.04 and 0.72 adult fish/ acre and did not appear to be related to lake size or angler regulations (Table 4).

Bass Abundance

Largemouth bass population estimates were completed in two lakes in 2011; No smallmouth bass population estimates were completed during 2011 (Table 5). Estimated largemouth bass density was 18 fish per acre in Archibald Lake and 2.45 fish per acre in Muskellunge Lake (Table 5). The size structure of largemouth bass populations in both lakes was dominated by fish less than 14" in length (Figure 13).

Table 4. Adult muskellunge population estimates completed in 2011 in the Wisconsin Ceded Territory. Regulations presented are for 2011.

County	Lake	Angler Regulation (inches)	Acres	Minimum length in PE (inches)		Adult PE	CV(%)	Total per acre
				Male	Female			
Ashland	English	34	244	22.0	28.0	176	35.9	0.72
Bayfield	Upper Eau Claire	40	996	30.0	32.5	97	19.8	0.10
Iron	Pine	40	312	20.5	31.5	106	18.3	0.34
Lincoln	Rice R. Flowage Chain	40	3,764	27.5	29.5	166	19.2	0.04
Oneida	Pelican	50	3,585	23.5	35.0	241	14.1	0.07
Oneida	Two Sisters	40	719	31.5	38.5	65	32.0	0.09
Polk	Bone	50	1,781	26.5	26.0	916	16.7	0.51
Vilas	Big Arbor Vitae	34	1,090	24.0	31.0	449	19.8	0.41
Vilas	Irving	34	403	30.0	32.0	287	18.8	0.71

Table 5. Largemouth Bass population estimates for lakes sampled in the Wisconsin Ceded Territory in spring 2011.

County	Lake	Acres	Angler Regulation	Total PE	CV	Total /acre	8.0-13.9" /acre	14.0-17.9" /acre	18.0"+ /acre
Largemouth Bass									
Oconto	Archibald	393	14" minimum	7,097	0.32	18.06	17.56	0.48	0.02
Oneida	Muskellunge	284	14" minimum	695	0.29	2.45	2.39	0.05	0.01

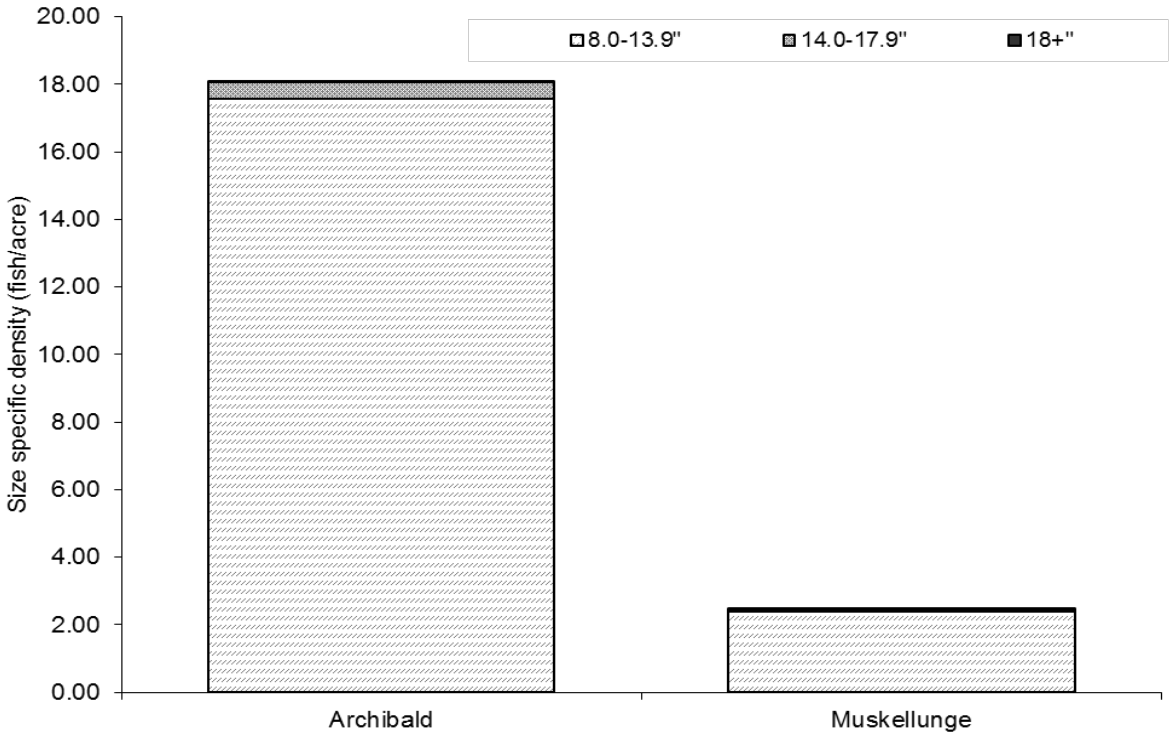

Figure 13. Largemouth bass population densities (fish ≥ 8.0") by size range for lakes sampled in the Wisconsin Ceded Territory in spring 2011.

Creel Surveys

In 2011-2012 (May through March), creel surveys were conducted for 14 waters in which walleye population estimates were made during spring 2011 (Appendix D). Creel surveyed lakes ranged in size from 102 to 3,585 acres (Windfall Lake-Sawyer Co. and Pelican Lake-Oneida Co., respectively) and were located across 7 counties within the Ceded Territory.

Overall Angler Effort

From 1995 through 2011 total angler effort has been variable but no trend has been observed across all ceded territory lakes monitored [$F(1; 326) = 0.16$, $P = 0.69$]. This finding is consistent with other studies and evaluations on angling pressure in Ceded Territory lakes (Cichosz 2009, Hansen 2008, Deroba et al. 2007, Hennessy 2005; Figure 14). Since 1995 when random lake selection began, mean total angler effort has been significantly lower in large lakes (≥500 acres; 26.5 hours/ acre) than in small lakes (<500 acres; 36.1 hours/ acre; t-test (unequal variances) $t = -3.34$, $df = 225$, $P < 0.01$). In 2011-12 the mean total angler effort per acre in large lakes (7 lakes, 36.7 hours/acre) did not statistically differ from the effort recorded on small lakes (6 lakes, 37.3 hours/acre, t-test (equal variances) $t = -0.08$, $df = 11$, $P = 0.94$).

Walleye Effort, Catch and Exploitation

Directed effort for walleye averaged 10.7 hours per acre in surveyed lakes during the 2011-12 angling season; Directed effort is defined as hours reported by anglers fishing for a specific species. In lakes monitored in 2011-12, directed walleye effort in lakes sustained by natural reproduction (14.0 hours/ acre) was not significantly higher than in lakes sustained by stocking (6.9 hours/ acre; t-test-equal variances, $t = 1.71$, $df = 11$, $P = .11$). Similarly, no significant difference was found in directed fishing effort for walleye between large (≥500 ac., 10.7 hours/ acre) and small lakes (<500 ac., 10.8 hours/ acre; t-test (equal variances) $t = -0.00$, $df = 11$, $P = 0.99$) surveyed during the 2011-12 angling season. Since 1995, directed angler effort (hours/acre) for walleye has shown a significant decline [Slope = -0.23, $F(1;326) = 8.61$, $P < 0.01$), although the statistical significance seems driven by high observed value(s) in 1996 and possibly 2000 rather than by any notable long term trend (Figure 15).

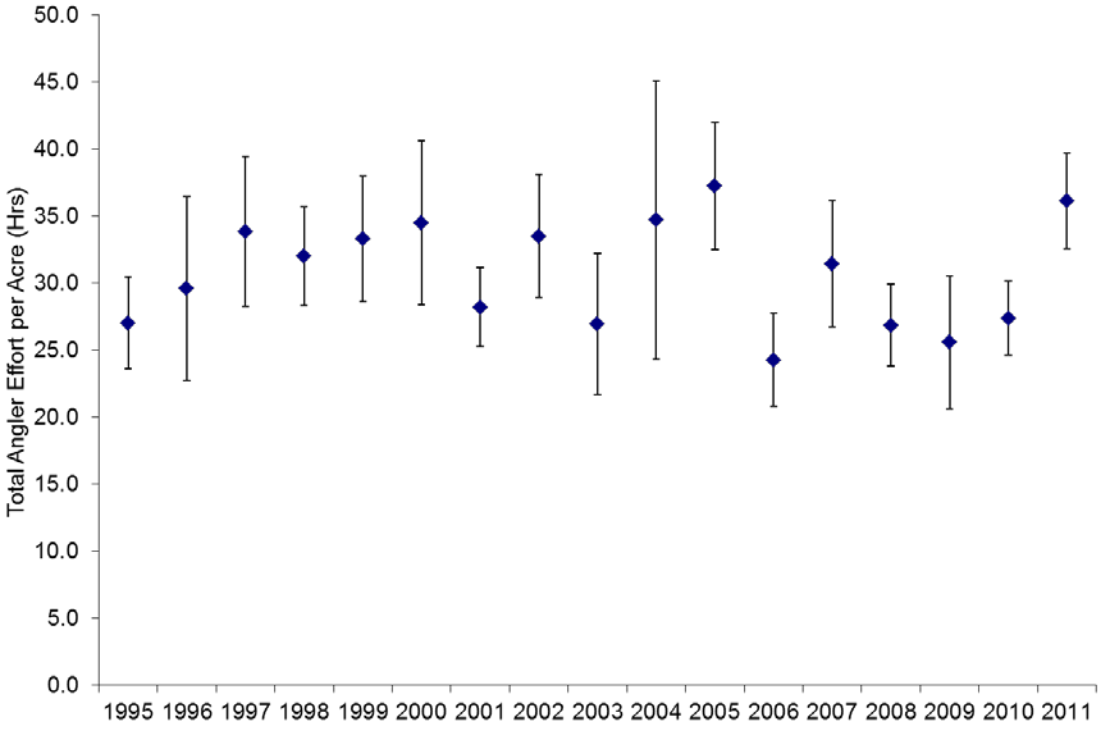

Figure 14. Average total angler effort per acre (±SE) in Wisconsin Ceded Territory lakes where WDNR conducted creel surveys, 1995-2011.

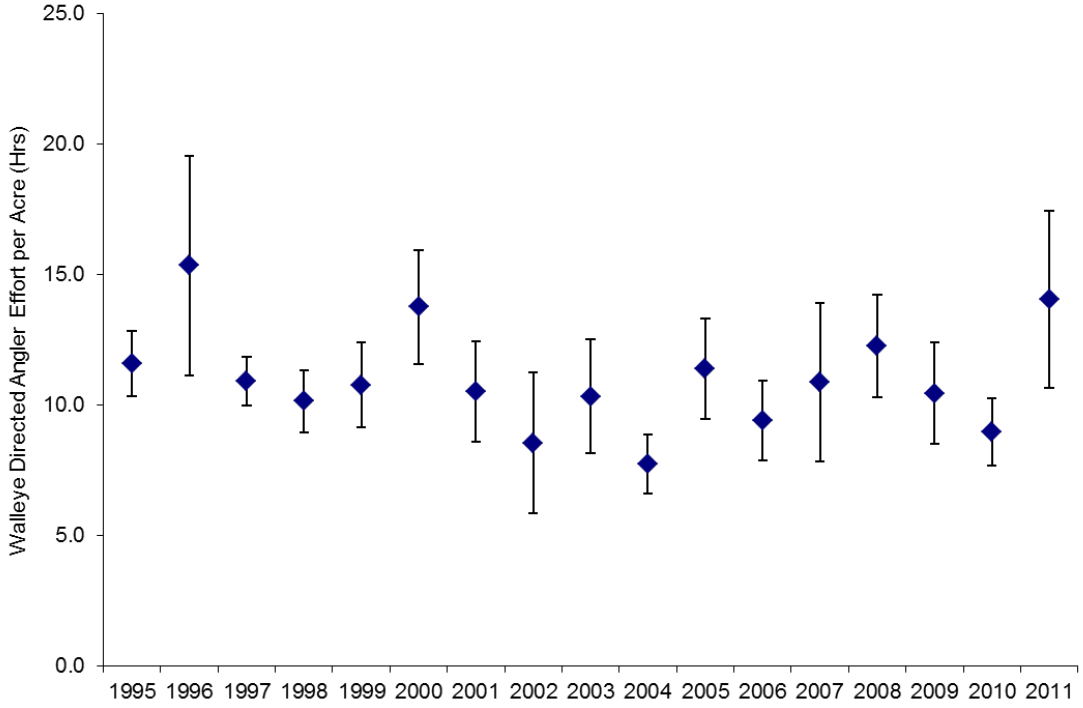

Figure 15. Directed angler effort per acre (±SE) for walleye in Wisconsin Ceded Territory lakes where WDNR conducted creel surveys, 1995-2011.

In 2011-12 the mean specific catch rates (SCR) was 0.14 walleye/hour of directed effort (1 fish per 7.3 walleye angling hours). In lakes with naturally sustained or stocked populations, respectively, mean SCRs were 0.18 walleye per hour (5.4 hours directed effort/ walleye caught) and 0.08 walleye/ hour (1 fish per 12.2 hours of directed effort). Specific harvest rates averaged 0.07 walleye/hour of directed effort (14.8 hours directed effort/walleye harvested) and ranged between 0.00 and 0.27 walleye/hour for individual lakes surveyed (Appendix D). Based on creel survey results, anglers harvested approximately 60% of all walleye caught during the 2011-12 season; this is well above average annual percentage estimated between 1995 and 2010 (36%).

Between 1995 and 2011 a statistically relevant downward trend in SCR was observed [Figure 16; Slope = -0.0070, $F(1, 326) = 7.03$, $P < 0.01$]. Although statistically relevant this trend appears driven by relatively high catch rates estimated in 1996 and 1997; with a slope very near zero, there is likely no biological or other relevance to this trend. No discernible trend was noted for specific harvest rate by year since 1995 [$F(1, 326) = 0.04$, $P = 0.83$] for walleye in the Wisconsin Ceded Territory (Figure 16).

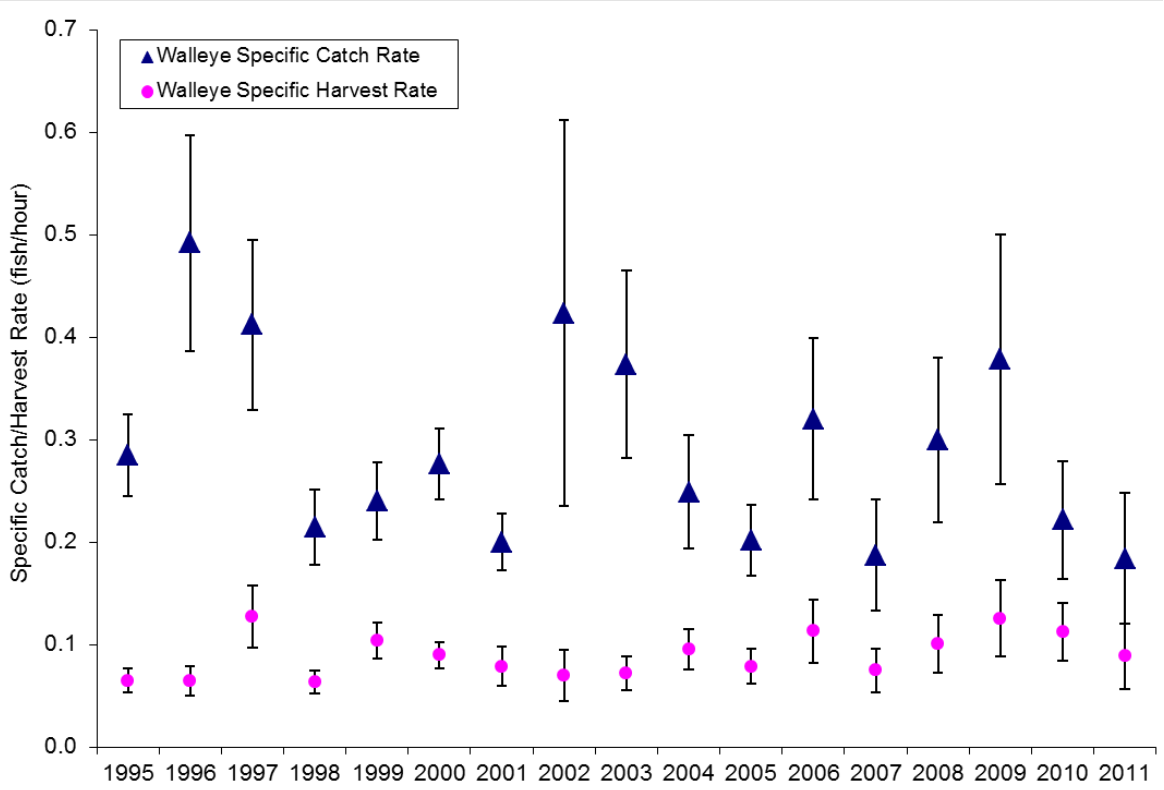

Figure 16. Specific catch and harvest rates (±SE) for walleye in surveyed lakes in the Wisconsin Ceded Territory, 1995-2011. Specific catch or harvest rate is number of walleye caught or harvested divided by time spent fishing specifically for walleye.

Walleye exploitation rates were estimated for 14 lakes during 2011-12 (Table 6; Appendix H). Estimated total (angler + tribal) exploitation of walleye ranged from 0% to 65.3%. Angler exploitation of walleyes in various size classes was variable with exploitation of walleye 14" or longer ranging from 0% to 57.7% whereas that of walleyes 20" or longer ranged from 0.0% to 39.2%. Tribal exploitation of walleyes ranged from 0.0% to 15.5% across all lakes and exceeded estimates of angler exploitation only in Two Sisters Lake (Oneida County). Based on 2011-12 survey results angler exploitation of walleye populations was estimated as zero in two of 14 lakes surveyed; seven of the 14 lakes surveyed incurred no tribal exploitation of walleye.

Safe harvest limits are set so that over time there is less than a 1-in-40 chance that exploitation will exceed 35% in any given year on any single lake. In 2011-12 total walleye exploitation was below 35% in all but one lake evaluated; total exploitation was estimated at 65% in Balsam Lake, Polk County (Table 6).

Table 6. Adult walleye exploitation rates by lake and harvest type for 2011, with comparison to 1995-2010 mean exploitation rates.

Lake	County	Acres	Angler exploitation	Angler expl. ≥14"	Angler expl. ≥20"	Tribal expl.[1]	Total adult exploitation
Windfall	Sawyer	102	0.1195	0.3125	0	0.0257	0.1452
Pine	Iron	312	0.0906	0.1484	0	0	0.0906
Long	Bayfield	263	0	0	0	0	0
Balsam	Polk	2054	0.5652	0.5778	0.3919	0.0877	0.6529
Archibald	Oconto	393	0.0734	0.0802	0	0	0.0734
Ballard	Vilas	505	0.0370	0.0926	0.1199	0	0.0370
Big Arbor Vitae	Vilas	1090	0.1180	0.1205	0.0981	0.0265	0.1445
Big Saint Germain	Vilas	1617	0.1075	0.1228	0.1966	0.0615	0.1690
Black Oak	Vilas	584	0.0943	0.1007	0.2256	0.0454	0.1397
Irving	Vilas	403	0	0	0	0	0
Muskellunge	Oneida	284	0.0468	0.0561	0.1497	0	0.0468
Pelican	Oneida	3585	0.1738	0.2049	0.1065	0.0941	0.2679
Two Sisters	Oneida	719	0.0809	0.0927	0.0569	0.1548	0.2357
White Birch	Vilas	117	0.0496	0.0882	0	0	0.0496
2011 mean			**0.1112**	**0.1427**	**0.0961**	**0.0354**	**0.1466**
1995-2010 mean			**0.0866**	**0.1074**	**0.1237**	**0.03238**	**0.1336**

1 Tribal harvest data used to calculate tribal exploitation provided by the Great Lakes Indian Fish and Wildlife Commission (Ngu 1995 and 1996, Krueger 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, Krueger and Brost 2010, White 2012).

Muskellunge Effort and Catch

Of the 14 lakes and chains surveyed in 2011-12, 10 are classified as musky waters. Creel clerks recorded at least one musky caught from 9 of the 14 lakes surveyed; no musky were reported as caught from any non-classified musky waters nor from White Birch Lake in Vilas County which is classified as a musky water (Appendix D). For the purpose of analyses and summarization of catch and effort, lakes not classified as musky waters and those without directed fishing effort were excluded even if limited numbers of musky were reported in creel surveys.

In general, the "action classification" assigned to lakes (WDNR 1996) is a better predictor of musky catch and effort than recruitment source or lake size to describe variability in catch and effort (Simonson and Hewett 1999). In most cases the 2011 estimates of angler catch, catch rate, and directed effort were not significantly different than the prior 10 year averages for each lake classification (Analysis of variance, Proc GLM; Table 7). Exceptions were angler catch/acre and specific catch rate in Class A2 waters which were both significantly less in 2011 than in the ten previous years ($P < 0.05$; Table 7).

Trends in directed effort and catch rates of muskellunge were evaluated since 1995; Trend evaluations were not done independently for each muskellunge 'action class' since limited or no data was available for some year/action class categories. There has been no observed trend in muskellunge directed effort [GLM; $F(1, 248) = 2.31$, $P = 0.13$] or catch rates [$F(1, 248) = 2.26$, $P = 0.13$] in the Ceded Territory since 1995 (Figure 17).

Table 7. Comparison of muskellunge catch and effort rates in 2011 and average values from 2001-2010, by musky lake classification.

Class	Class Description	Lakes sampled	Angler catch/ acre	Specific catch rate (fish/ hour)	Directed effort (hours/ acre)
2011					
A1	Trophy waters	3	0.25	0.03	6.90
A2	Action waters	6	0.22*	0.02*	10.87
B	Intermediate action/ size	1	0.16	0.01	8.37
C	Low importance	0	---	---	---
Total		10	0.22*	0.02	9.43
2001-2010 Averages (Prior 10 years)					
A1	Trophy waters	55	0.23	0.03	6.70
A2	Action waters	57	0.56*	0.04*	10.30
B	Intermediate action/ size	20	0.16	0.03	4.06
C	Low importance	9	0.03	0.01	0.58
Total		141	0.34*	0.03	7.39

* Difference between 2011 and prior 10 year average is statistically significant ($p<0.05$).

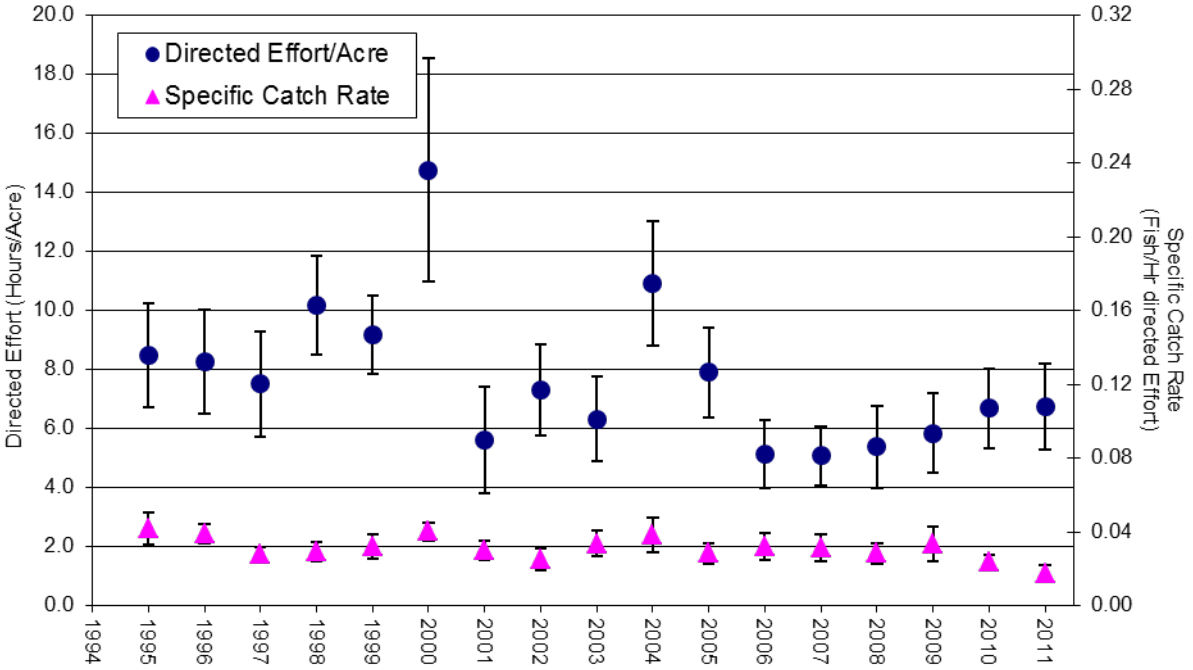

Figure 17. Directed angler effort per lake surface acre and specific catch rate (±SE) for muskellunge in surveyed lakes in the Wisconsin Ceded Territory, 1995-2011.

Northern Pike Effort and Catch

Directed effort and catches of northern pike were recorded for all of the 14 lakes surveyed in 2011-12 (Appendix D). Of the 14 lakes with northern pike effort and catch, half (7) were smaller than 500 acres and half were 500 acres or larger (Table 8). Although differences in mean values appeared substantial for some variables, there were no significant differences between large and small lakes with regard to directed angler effort, specific catch rate, angler catch per acre, or specific harvest rate of northern pike during the 2011-12 angling season (Table 8). For northern pike no significant differences were found between 2011-12 creel values and the corresponding prior 10 year averages (2001 -2010) for any of the variables evaluated in Table 8.

Estimates of angler effort directed toward northern pike have been highly variable across years (Figure 18), and since 1995 there has not been a statistically detectable trend in directed angler effort for northern pike [$F(1, 306) = 0.05$, $P = 0.82$]. Similarly, specific catch rates of northern pike show no significant trend since 1995 [$F(1, 306) = 0.19$, $P = 0.66$].

Table 8. Mean estimates calculated from 2011 and 2001-2010 northern pike creel survey data.

Year	Lake Size	N	Catch/ Acre	Angler Harvest/ Acre	Specific Catch Rate	Specific Harvest Rate	Directed Effort/ Acre
2011*							
	< 500 acres	7	4.21	0.89	0.22	0.08	7.51
	> 500 acres	7	1.86	0.42	0.17	0.05	4.34
	All lakes	14	3.03	0.66	0.19	0.07	5.93
2001-2010**							
	< 500 acres	88	2.27	0.38	0.19	0.05	5.05
	> 500 acres	103	1.85	0.27	0.19	0.05	3.40
	All lakes	191	2.05	0.32	0.19	0.05	4.16

* No significant differences exist between large and small lakes for any parameter for the 2011-12 angling season (T-test, $p>0.05$).

** No 2011 values differ significantly (T-test, $p\geq0.05$) from corresponding 10 yr. averages.

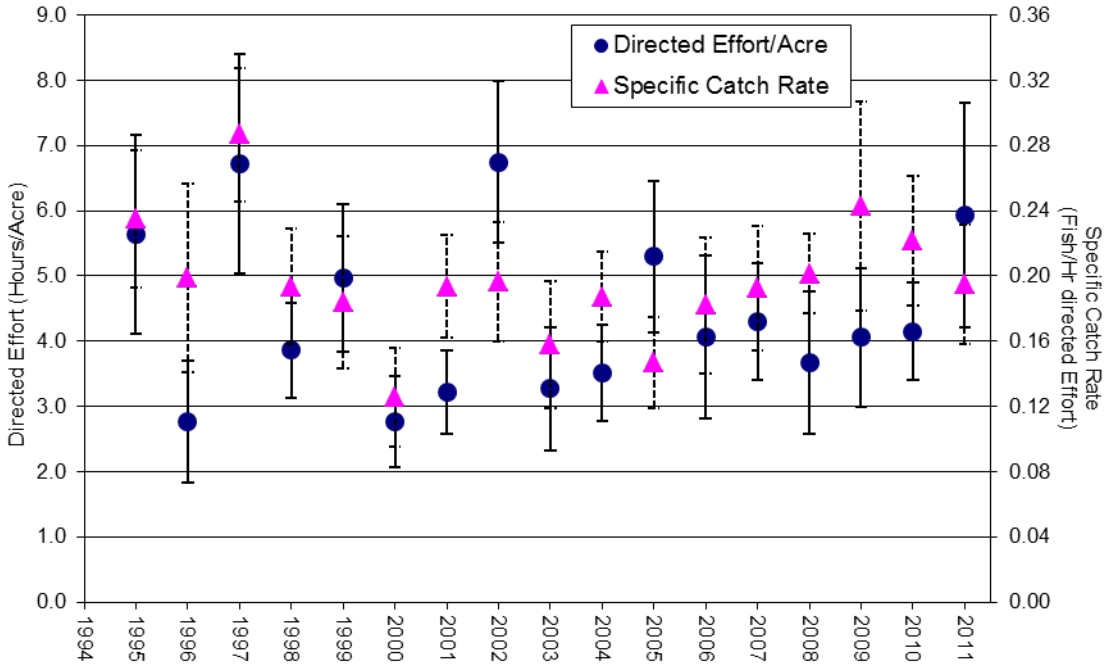

Figure 18. Directed angler effort per lake surface acre and specific catch rate (±SE) for northern pike in surveyed lakes in the Wisconsin Ceded Territory, 1995-2011.

Largemouth Bass Effort and Catch

Catches of largemouth bass were reported for 13 of the 14 lakes surveyed in 2011. One lake surveyed had largemouth bass caught with no directed effort (White Birch Lake, Vilas Co.), and another had directed effort but no bass caught (Pine Lake, Iron Co.) (Appendix D). Of surveyed lakes with largemouth bass catch, six were smaller than 500 acres and seven were 500 acres or larger (Table 9). In 2011-12, there were no significant differences between large and small lakes with regard to directed angler effort, angler catch or harvest numbers, nor specific catch or harvest rates (T-tests, equal variance, P >0.05) for largemouth bass. None of the creel statistics evaluated during 2011-12 differed from the respective prior 10 year averages for large lakes or all lakes combined (T-tests, P >0.05; Table 9). In small lakes, current year harvest criteria (harvest/acre and specific harvest rate) were significantly (P<0.05) lower than the respective 10 year averages; there were no significant differences between directed angler effort, angler catch or specific catch rates (T-tests, equal variance, P >0.05

During the 2011-12 angling season the mean specific catch rate for largemouth bass in Ceded Territory lakes was the highest observed in any year since 1995 (Figure 19). Since 1995 there has been a statistically detectable increase in both directed angler effort [Slope = 0.134, F(1, 296) = 4.13, P = 0.043] and specific catch rates [Slope = 0.027, F(1, 296) = 31.12, P < 0.01] in largemouth bass fishing in Wisconsin Ceded Territory lakes (Figure 19).

Table 9. Mean estimates calculated from 2011 and 2001-2010 largemouth bass creel survey data.

Year	Lake Size	N	Catch/ Acre	Angler Harvest/ Acre	Specific Catch Rate	Specific Harvest Rate	Directed Effort/ Acre
2011*							
Small	< 500 acres	7	5.60	0.06	0.49	0.01	4.83
Large	> 500 acres	7	13.69	0.46	0.95	0.04	5.88
	All lakes	14	9.64	0.26	0.74	0.02	5.35
2001-2010**							
Small	< 500 acres	83	5.31	0.19**	0.45	0.02**	5.44
Large	> 500 acres	101	4.16	0.21	0.39	0.02	3.97
	All lakes	184	4.68	0.20	0.42	0.02	4.64

* No significant differences exist between large and small lakes for any parameter for the 2011-12 angling season (T-test, p>0.05).

** 10 yr. averages differ significantly from corresponding 2011-12 annual values (T-test, $p \leq 0.05$).

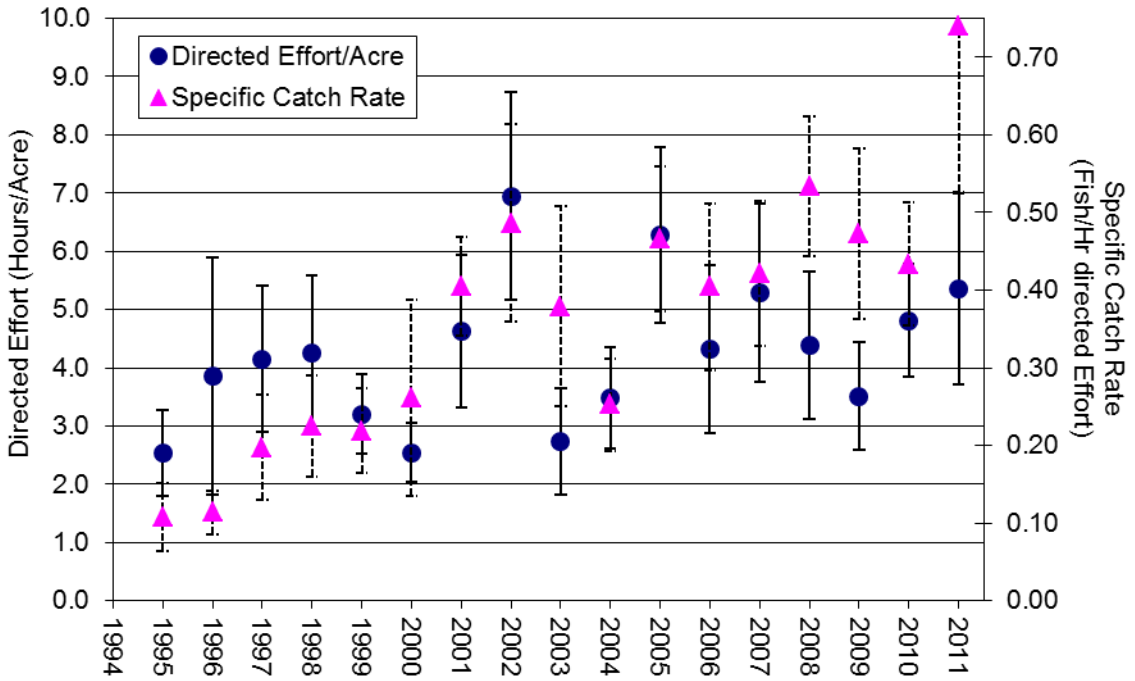

Figure 19. Directed angler effort per lake surface acre and specific catch rate (±SE) for largemouth bass in surveyed lakes in the Wisconsin Ceded Territory, 1995-2011.

Smallmouth Bass Effort and Catch

Catches of smallmouth bass were reported in 13 of the 14 lakes surveyed in the 2011-12 angling season, and each of those 13 lakes had at least some level of directed effort for smallmouth bass (Appendix D). Windfall Lake (Sawyer Co.) had no angler effort directed toward smallmouth bass and no catch of smallmouth bass. Of the lakes with smallmouth bass catch in 2011-12, six were classified as 'small' (<500 ac.) and seven as 'large' (≥500 ac.; Table 10). There were no significant differences in smallmouth bass specific catch rate, harvest/acre, or specific harvest rate (T-test, $P>0.05$) between large or small lakes in 2011-12; directed angler effort and catch/acre were significantly greater in large lakes than in small lakes (T-test, $P<0.05$; Table 10). In small lakes, smallmouth bass specific catch/acre, harvest/acre and directed effort/acre were significantly less than the corresponding 10 year averages (T-test, $P<0.05$;); In large lakes, no creel statistics evaluated during 2011-12 differed from the respective 10 year averages (Table 10).

Both directed effort and specific catch rates of smallmouth bass anglers in the Ceded Territory have been variable over time. The average of both directed effort and specific catch rates in surveyed

lakes during 2011-12 was within the observed range of values in other years since 1995 (Figure 20). Since 1995 when a randomized lake selection process was instituted there have been no statistically detectable trends in directed angler effort/acre [F(1, 294) = 0.10, P = 0.75] (Figure 20). Although not visually discernible, there has been a statistically relevant trend in specific catch rates of smallmouth bass over the same timeframe [F(1, 294) = 5.12, P = 0.02], although the slope of that trend (<0.01) is minimal.

Table 10. Mean estimates calculated from 2011 and 2001-2010 smallmouth bass creel survey data.

Year	Lake Size	N	Catch/ Acre	Angler Harvest/ Acre	Specific Catch Rate	Specific Harvest Rate	Directed Effort/ Acre
2011							
Small	< 500 acres	6	0.33*	<0.01	0.68	<0.01	0.40*
Large	> 500 acres	7	2.28*	0.16	0.31	0.04	3.50*
	All lakes	13	1.38	0.08	0.44	0.03	2.07
2001-2010							
Small	< 500 acres	81	2.24**	0.06**	0.34	0.01	3.58**
Large	> 500 acres	101	2.16	0.08	0.39	0.02	3.01
	All lakes	182	2.20	0.07	0.37	0.02	3.26

* Differences between large and small lakes within the 2011-12 angling season are significant (T-test, p>0.05).
** 10 yr. averages differ significantly from corresponding 2011-12 annual values (T-test, p≤0.05).

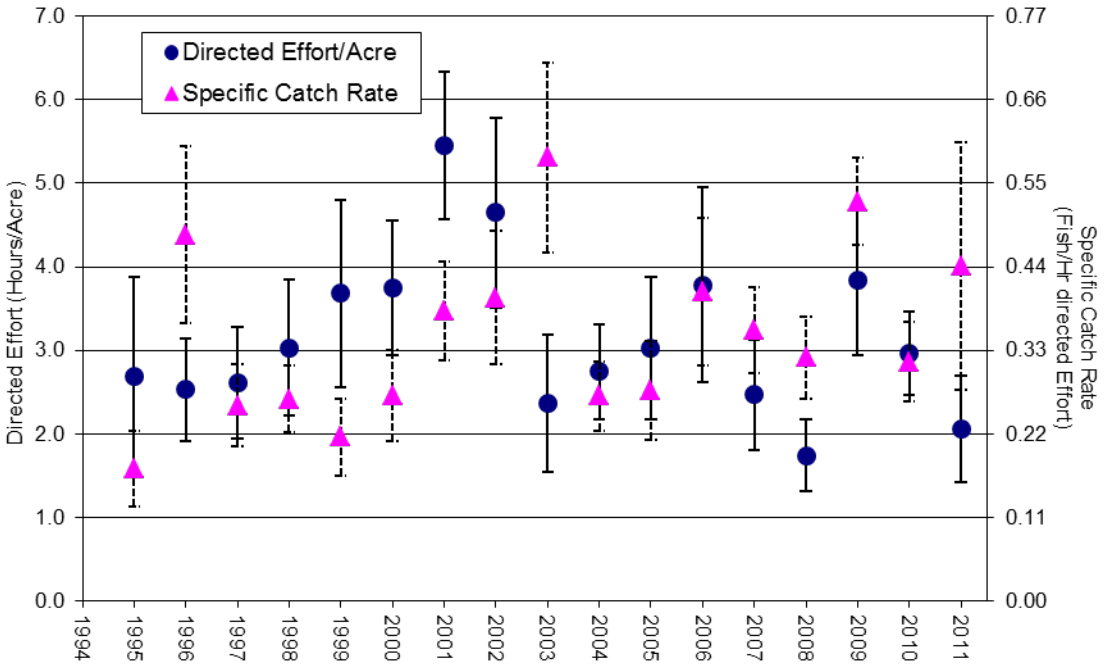

Figure 20. Directed angler effort per lake surface acre and specific catch rate (±SE) for smallmouth bass in surveyed lakes in the Wisconsin Ceded Territory, 1995-2011.

Safe Harvest

Safe harvest calculated for the 2011 harvest season was 96,695 walleye and 5,197 musky across the entire Wisconsin Ceded Territory (Table 11). Safe harvest of both walleye and musky has been shown to be highly correlated to the surface acreage of water found in each county (Linear regression, r^2>0.9; Cichosz 2009). For both walleye and musky the greatest total safe harvest numbers for individual counties were observed in Vilas (21,178 walleye, 1,476 musky), Oneida (18,289 walleye, 1,044 musky), Sawyer (9,138 walleye, 568 musky) and Iron (9,739 walleye, 378 musky) counties. When totaled, safe harvest from these four counties accounted for 60 percent of overall walleye and 67 percent of overall musky safe harvest for the Wisconsin Ceded Territory during 2011. Safe harvest numbers for individual lakes are listed in Appendix I.

Table 11. Walleye and musky safe harvest levels and ranks by county for the 2011 harvest season.

County	Lake Acreage*	Total Calculated Safe Harvest		Ranks (1 = Greatest #)	
		Walleye	Musky	Walleye	Musky
Ashland	2,862	408	104	23	11
Barron	13,684	2,167	43	11	18
Bayfield	12,585	3,171	152	8	8
Burnett	11,556	1,636	117	14	10
Chippewa	14,418	4,930	167	6	7
Clark	320	21	5	26	24
Douglas	6,178	2,042	52	13	16
Dunn	1,752	661		19	
Eau Claire	2,571	640	35	20	19
Florence	1,756	276		24	
Forest	10,897	3,077	59	9	14
Iron	24,693	9,739	378	**3**	4
Langlade	4,828	579	46	21	17
Lincoln	15,532	5,483	213	5	6
Marathon	9,541	2,046	57	12	15
Marinette	3,361	755	20	17	23
Oconto	3,445	454	26	22	20
Oneida	60,263	18,289	1,044	**2**	**2**
Polk	11,605	1,181	93	16	13
Portage	74	5		27	
Price	9,153	3,061	261	10	5
Rusk	5,633	1,580	136	15	9
Sawyer	48,007	9,138	568	4	**3**
St. Croix	1,100	674	21	18	22
Taylor	4,082	262	25	25	21
Vilas	71,294	21,178	1,476	**1**	**1**
Washburn	14,935	3,242	99	7	12
Grand Total	**366,125**	**96,695**	**5,197**	**---**	**---**

* Sum of acreage for lakes declared for potential harvest of one or both species; does not include total county-wide lake acreage.

Walleye Young-of-Year Surveys

Young of the year (YOY) surveys provide an index of the abundance and survival of the current year class of walleyes from hatching or stocking to their first fall. These surveys provide fisheries managers with insight into potential adult population changes in the near future. Early indication of these potential changes allows fisheries managers to develop management strategies to accommodate expected changes in adult populations. Although YOY relative abundance gives some indication of possible future adult abundance it does not necessarily correspond directly, as survival to adulthood varies (Hansen et al. 1998).

During 2011 WDNR completed fall surveys on 113 different lakes in the Wisconsin Ceded Territory (Appendix G). Of the lakes sampled, 41 had walleye populations classified as sustained by naturally reproduction (recruitment codes NR, C-NR, or C-), 45 as sustained by stocking (ST or C-ST), and 19 as remnant or newly established populations (REM, O-ST, NR-2; Appendix C). Eight lakes surveyed were classified as having no known walleye population (NONE/0). Water temperatures during 2011 YOY walleye surveys ranged from 48 - 71° F; mean and median water temperatures during YOY surveys were 59° and 60°F, respectively. Young-of-year walleye lengths ranged from 3.2 to 9.4 inches across all lakes and dates surveyed in 2011 (Appendix G).

Differences in mean YOY walleye density between natural and stocked recruitment categories was highly significant during 2011 (t-test-unequal variance, $t = 3.73$, $df = 42.4$, $P < 0.001$). Consistent with all previous years since 1990, lakes sustained primarily by natural reproduction had higher mean walleye YOY density (mean = 32.3/mile of shoreline shocked, range = 0.0–211.7) than lakes sustained by stocking (mean = 4.2/mile, range = 0.0–41.2) during 2011 (Figure 21). The mean YOY walleye density observed in natural recruitment lakes during 2011 (32.3/mile) was statistically very similar (t-test equal variance, $P>0.90$) to the average across the previous 21 years studied (31.7/mile from 1990-2010). The mean YOY walleye density observed in stocked lakes during 2011 (4.2/mile) was slightly less than average relative to the previous 21 years studied (5.7/mile from 1990-2010) although this difference was also not statistically significant (t-test-unequal variance, $t = -1.06$, $df = 64.1$, $P=0.29$; Figure 21).

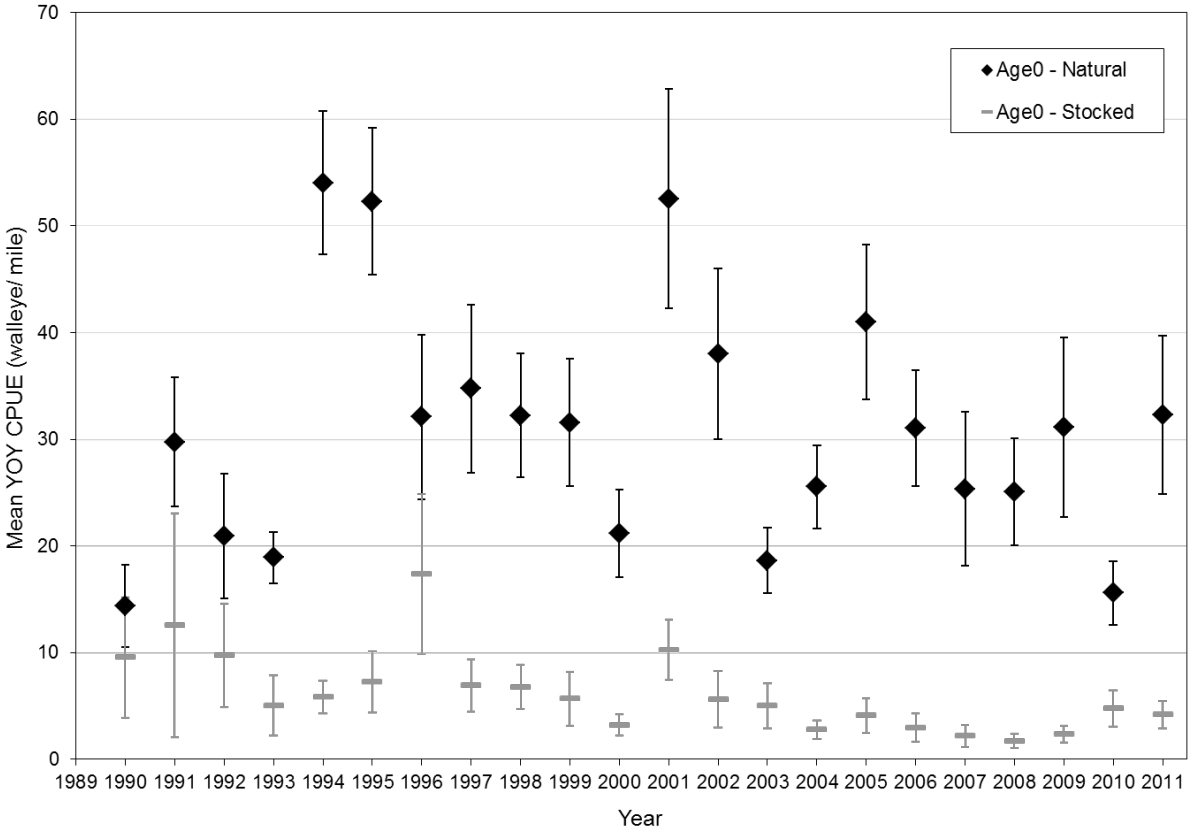

Figure 21. Comparison of mean YOY walleye density (± SE) observed in fall electrofishing surveys since 1990 in lakes dominated by natural recruitment or stocking.

It appears that within the Wisconsin Ceded Territory there may be region-wide annual effects on walleye recruitment since mean recruitment varies dramatically from year to year when data from all lakes are combined (Figure 21); In the absence of an annual regional effect one might expect annual percentages to be similar across years. Lack of recruitment in a given lake for one or more years is natural and not necessarily alarming. Sporadic recruitment is common for walleye populations both within and among individual lakes. It is common to have almost complete lack of recruitment in 25% or more of lakes with natural reproduction, and year class failures are even more common in lakes with populations maintained by stocking. Generally, successful recruitment occurs in a given lake every 3-4 years which may reduce competition between year classes of walleye (Li et al. 1996).

A general linear model used to assess the impact of year and/or recruitment model on YOY walleye density was significant ($p<0.0001$; Table 12). The significance of the model was driven by differences in YOY density between recruitment models (natural or stocked; $p<0.0001$), years ($p<0.0001$), and the interaction of year*recruitment model ($p=0.027$). Based on the significance of the year*recruitment model interaction term, regressions were done to evaluate trends independently for natural and stocked model lakes. No significant trend was noted for YOY densities over time in natural model lakes ($p=0.11$; see Figure 21). YOY walleye densities have declined significantly over time in stocked model lakes since 1990 (slope=-0.38, $p=0.0003$; see Figure 21).

Table 12. GLM results comparing YOY walleye density across years and primary walleye recruitment source.

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	43	461663	10736	8.02	<0.0001
Error	1,825	2443019	1339		
		Type III SS	**Mean Square**	**F Value**	**Pr > F**
Year	21	67172	3199	2.39	0.0004
Recruitment Model[a]	1	223917	223917	167.27	<0.0001
Year x Recruitment Model	21	47252	2250	1.68	0.0272

a –Recruitment Models compared are 'natural' and 'stocked'.

The percentages of natural-model lakes with greater than 25 YOY walleye per mile and greater than 100 YOY walleye per mile are also used to indicate strong annual year classes in the Wisconsin Ceded Territory. These values are less affected by large values for individual lakes than the mean number of YOY walleye caught per mile. In 2011, 14/41 natural model lakes (34%) had YOY indices > 25 per mile, and 3 NR lakes (7%) had YOY walleye indices > 100 per mile (Appendix G). Overall, the proportion of lakes with YOY catch rates greater than 25 and 100 fish per mile in 2011 was similar to the mean proportion of lakes observed with the same catch rates between 1990-2010 (mean percentage > 25 YOY/mi = 37%; >100/mi = 8%) suggesting an average naturally produced walleye year class across the ceded territory in 2011.

In lakes categorized as being sustained primarily by stocking, differences in the mean number of YOY walleye captured per mile in lakes that were stocked (2.99 YOY/ mile) with fry or small fingerlings

was not significantly different (t-test unequal variance, t = 0.46, df = 36.2, P = 0.65) from those that were not stocked (3.96 YOY/ mile) in 2011 (Table 13). These 2011 findings are unusual in that most years stocked lakes generally have stronger fall recruitment than those that were not stocked.

Table 13. Young-of-the-year indices in lakes categorized as being sustained primarily by stocking (ST or C-ST), separated by whether or not the lake was stocked in 2011.

	Stocked in 2011	Not Stocked in 2011
No. Lakes	18	26
Mean YOY walleye/ mile	2.99	3.96
Q1/Median/Q3	0.0 / 1.6 / 3.3	0.0 / 0.0 / 2.4
Lakes with 0 YOY/ mile	1 (6%)	15 (58%)
Lakes with ≤5 YOY/ mile	15 (83%)	20 (77%)
Lakes with ≤10 YOY/ mile	16 (89%)	20 (77%)

The Hansen et al (2004) index of lake-wide YOY walleye density (fish/acre) for natural-model lakes ranged from 0.0–149.6 with a mean of 18.6 during 2011. In stocked-model lakes, the same index ranged from 0.0–11.6 YOY walleye/acre with a mean of 1.3. Within stocked-model lakes, those stocked prior to fall surveys logically had a greater average index value than lakes that were not stocked (4.4 Vs. 1.8, respectively). This generally indicates greater levels of recruitment in natural model lakes relative to stocked model lakes, and within the stocked model lakes greater recruitment in stocked versus un-stocked waters. Results based on the Hansen index are inconsistent with findings based on counts of YOY/mile observed in surveys and discussed above, most likely because the Hansen index (YOY/acre) is only calculable in a subset of lakes sampled whereas YOY/mi data is available from all lakes surveyed.

Fall surveys were conducted on 16 lakes that were previously stocked with oxytetracycline (OTC) marked walleyes in 2011; Sparkling lake also had an additional summer sample collected for OTC analysis (Table 14). Most stocking of OTC marked fish took place in June. In general, the percent of marked fish tends to align well with and support recruitment code designations for lakes monitored during 2011, with higher values in predominantly stocked (ST or C-ST) lakes, and lower values in lakes presumed to be dominated by natural reproduction (C-NR). Lac Vieux Desert was previously in the natural model (code C-NR) but has been experiencing recruitment failures in recent years, another of which is illustrated by the OTC data collected in 2011; The recruitment code for Lac Vieux Desert was

changed to C-ST after the 2011 sampling season. Results of OTC sampling are not considered in the designation or recruitment codes unless a minimum of 30 individual fish are sampled from the water body in question, and are not the sole factor used to define recruitment codes.

Table 14. Lakes stocked with oxytetracycline (OTC) marked fish sampled in 2011, number of sampled fish where OTC marks were noted on the otolith, and percent contribution of stocked fish to the total sample.

County	Lake	Recruit Code*	WBIC	With OTC	Without OTC	Total	% Contrib.
Florence	Emily	C-ST	651600	7	0	7	100
Florence	Fay	ST	677100	1	0	1	100
Forest	Crane	ST	388500	2	0	2	100
Forest	Roberts	C-ST	378400	1	2	3	33
Forest	Silver	O-ST	555700	7	0	7	100
Oneida	Gilmore	ST	1589300	1	0	1	100
Oneida	N Nokomis	C-ST	1595800	49	0	49	100
Oneida	Thunder	C-ST	1618100	46	0	46	100
Oneida	Two Sisters	C-NR	1588200	15	33	48	31
Vilas	Ballard L	C-ST	2340700	5	0	5	100
Vilas	Circle Lily	C-ST	2326700	17	5	22	77
Vilas	Crystal	O-ST	1842400	2	0	2	100
Vilas	Found	C-ST	1593800	48	0	48	100
Vilas	Lac Vieux Desert	C-ST	1631900	27	0	27	100
Vilas	Little St Germain	C-ST	1596300	4	0	4	100
Vilas	Sparkling	C-ST	1881900	50	0	50	100
Vilas	Sparkling **	C-ST	1881900	20	0	20	100

* Recruitment code C-ST is in the stocked model, C-NR is in the natural model, and 0-ST is in the remnant model (Appendix C).
** Summer seine survey.

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APPENDICES

Appendix A. WDNR Lake Sampling Rotation 2010-2013.

YEAR	TREATY UNIT	MWBC	COUNTY	LAKE	AREA	CURRENT MODEL	# LAKES	ROTATION
2010	Spooner	2678100	BURNETT	LIPSETT	393	S	1	TREND
2010	Spooner	2742100	BAYFIELD	MIDDLE EAU CLAIRE	902	N	1	TREND
2010	Spooner		Bayfield	Pike Lake Chain	714	N	4	Spatial
2010	Spooner		Sawyer	Round/Little Round	3,283	N	2	Spatial
2010	Spooner	2382300	Sawyer	Barber	238	S	1	Spatial
2010	Spooner	2393500	Sawyer	Sissabagama	719	N	1	Spatial
2010	Spooner	2303500	Iron	Long	396	S	1	Spatial
2010	Spooner	1884100	Washburn	Stone	523	N	1	Spatial
TOTAL	**Spooner**				**7,168**		**12**	
2010	Woodruff	394400	FOREST	L METONGA	1,991	S	1	TREND
2010	Woodruff	2331600	VILAS	TROUT	3,816	S	1	TREND
2010	Woodruff		Vilas	Upper/Lower Buckatabon	846	S	2	Spatial
2010	Woodruff		Vilas	Turtle Chain	945	N	2	Spatial
2010	Woodruff	2332400	Vilas	Allequash	426	C-ST	1	Spatial
2010	Woodruff	1569600	Oneida	George	435	N	1	Spatial
2010	Woodruff	1564200	Oneida	Crescent	612	N	1	Spatial
TOTAL	**Woodruff**				**9,071**		**9**	
2010	**TOTAL**				**16,239**		**21**	
2011	Spooner	2949200	IRON	PINE	312	N	1	TREND
2011	Spooner	2620600	POLK	BALSAM	2,054	S	1	TREND
2011	Spooner	2399700	Sawyer	L Chippewa	15,300	N	1	Spatial
2011	Spooner	2046500	Sawyer	Windfall	102	N	1	Spatial
2011	Spooner	2767099	Bayfield	Long	263	S	1	Spatial
TOTAL	**Spooner**				**18,031**		**5**	
2011	Woodruff	1588200	ONEIDA	TWO SISTERS	719	N	1	TREND
2011	Woodruff		VILAS	BIG ARBOR VITAE	1,090	N	1	TREND
2011	Woodruff	1579900	Oneida	Pelican	3,585	N	1	Spatial
2011	Woodruff		Oneida	Rhinelander Chain	2,059	N	4	Spatial
2011	Woodruff	1595600	Oneida	Muskellunge	284	N	1	Spatial
2011	Woodruff	1591100	Vilas	Big St. Germain	1,617	S	1	Spatial
2011	Woodruff		Vilas	Ballard Chain	1,025	N	3	Spatial
2011	Woodruff	417400	Oconto	Archibald	430	S	1	Spatial
2011	Woodruff	1630100	Vilas	Black Oak	584	S	1	Spatial
TOTAL	**Woodruff**				**11,393**		**14**	
2011	**TOTAL**				**29,424**		**19**	

YEAR	TREATY UNIT	MWBC	COUNTY	LAKE	AREA	CURRENT MODEL	# LAKES	ROTATION
2012	Spooner	2897100	BAYFIELD	DIAMOND	341	S	1	TREND
2012	Spooner	2391200	SAWYER	GRINDSTONE	3,111	N	1	TREND
2012	Spooner		Barron	L Chetek Chain	3,763	S	4	Spatial
2012	Spooner	2627400	Polk	Big Round	1,015	S	1	Spatial
2012	Spooner		Rusk	Island Lake Chain	1,222	N	4	Spatial
2012	Spooner	2691500	Washburn	L Nancy	772	**S**	1	Spatial
2012	Spooner	2351400	Chippewa	Long	1,052	N	1	Spatial
2012	Spooner	2856400	Douglas	Lyman	403	**NR-2**	1	Spatial
2012	Spooner	2661100	Barron	Sand	322	S	1	Spatial
TOTAL	***Spooner***				***12,001***		***15***	
2012	Woodruff	1018500	VILAS	SNIPE	239	N	1	TREND
2012	Woodruff	1592400	VILAS	PLUM	1,033	N	1	TREND
2012	Woodruff		Lincoln/Oneida	Nokomis/Rice Chain	3,916	N	3	Spatial
2012	Woodruff	1595300	Oneida	Rainbow Fl	2,035	N	1	Spatial
2012	Woodruff	1623400	Vilas	Pioneer	427	**S**	1	Spatial
2012	Woodruff		Vilas	Presque Isle Chain	1,571	N	3	Spatial
2012	Woodruff	2328700	Vilas	Papoose	428	N	1	Spatial
TOTAL	***Woodruff***				***9,649***		***11***	
2012	**TOTAL**				**21,650**		**26**	
2013	Spooner	2678100	BURNETT	LIPSETT	393	S	1	TREND
2013	Spooner	2742100	BAYFIELD	MIDDLE EAU CLAIRE	902	N	1	TREND
2013	Spooner	2496300	Washburn	Shell	2,580	N	1	Spatial
2013	Spooner	1764500	Taylor	Sackett	63	S	1	Spatial
2013	Spooner	2461100	Burnett	Devils	1,001	S	1	Spatial
2013	Spooner	2133200	Eau Claire	L Eau Claire	860	N	1	Spatial
2013	Spooner		Sawyer	Connors/L of the Pines	702	N	2	Spatial
2013	Spooner	2469800	Barron	Horseshoe	115	**S**	1	Spatial
2013	Spooner	1875900	Rusk	Pulaski	126	N	1	Spatial
TOTAL	***Spooner***				***6,742***		***10***	
2013	Woodruff	394400	FOREST	L METONGA	1,991	S	1	TREND
2013	Woodruff	2331600	VILAS	TROUT	3,816	S	1	TREND
2013	Woodruff		Vilas	Eagle Chain	4,174	N	10	Spatial
2013	Woodruff	1586600	Oneida	Spider	118	N	1	Spatial
2013	Woodruff	377900	Forest	Jungle	182	N	1	Spatial
TOTAL	***Woodruff***				***10,281***		***14***	
2013	**TOTAL**				**17,023**		**24**	

Appendix B. Reduced daily bag limits for walleye angling, based on Tribal Declarations as percentage of safe harvest. Reprinted from Wisconsin Administrative Code (NR 20.36).

Daily bag limit	Current population estimate	Population estimate made 1-2 years ago	Population estimate made 3 years ago or more or regression model
4	1-7	1-14	1-20
3	8-18	15-39	21-54
2	19-36	40-76	55-84
1	37-68	77-94	85-94
0	69 or more	95 or more	95 or more

Appendix C. Walleye Recruitment Code Descriptions (primary source of walleye recruitment; U.S. Department of the Interior, 1991).

Recruitment Code[1]	Recruitment Model[2]	Description
blank	None	unknown
NONE/ O	None	No walleye are present
REM	Remnant	Stocking provides the only source of recruitment but was discontinued. The stock is expected to disappear at some time in the future.
0-ST	Remnant	Stocking provides the only source of recruitment but was initiated only recently and has not yet resulted in a harvestable population of adults.
ST	Stocked	Stocking provides the only source of recruitment and is consistent enough to result in a multi-year class adult population.
C-ST	Stocked	Stocking provides the primary source of recruitment but some natural reproduction occurs and may augment the adult population.
C-	Natural	Natural reproduction and stocking provide more or less equal recruitment to the adult population.
C-NR	Natural	Natural reproduction is adequate to sustain the population even though the lake is being stocked.
NR	Natural	Natural reproduction only; consistent enough to result in multi-year class adult populations.
NR-2	Remnant	Natural reproduction only; inconsistent, results in missing year classes.

1 Recruitment Code = Designation of the *primary* recruitment source and done by a technical working group.

2 Recruitment Model is used for data analysis and groups various recruitment codes into one of three categories.

Appendix D. 2011-2012 Creel Survey Summaries.

Angler Effort Summary

County	Lake	MWBIC	Acres	Walleye recruit code	Musky recruit code	Total angler effort	Total angler effort/ acre	Directed Effort Walleye	Walleye Effort/ Acre	Directed Effort Musky	Musky Effort/ Acre	Directed Effort Pike	Pike Effort/ Acre	Directed Effort LMB	LMB Effort/ Acre	Directed Effort SMB	SMB Effort/ Acre
Bayfield	Long	2767100	263	ST	O	10,051	38.22	282	1.07	0	0.00	4,985	18.95	2,271	8.63	18	0.07
Iron	Pine	2949200	312	NR	NR	6,348	20.35	3,758	12.04	1,955	6.27	0	0.00	35	0.11	515	1.65
Oconto	Archibald	417400	393	C-ST	NR	22,320	56.79	3,982	10.13	3,289	8.37	7,748	19.72	7,474	19.02	22	0.06
Oneida	Muskellunge	1595600	284	NR	C-	7,837	27.60	2,405	8.47	3,025	10.65	1,542	5.43	585	2.06	169	0.60
Oneida	Pelican	1579900	3,585	NR	ST	165,768	46.24	52,018	14.51	17,447	4.87	36,946	10.31	13,329	3.72	14,541	4.06
Oneida	Two Sisters	1588200	719	C-NR	C-	13,563	18.86	5,674	7.89	3,566	4.96	986	1.37	1,776	2.47	2,772	3.86
Polk	Balsam	2620600	2,054	C-ST	O	92,446	45.01	13,625	6.63	0	0.00	15,154	7.38	36,980	18.00	5,023	2.45
Sawyer	Windfall	2046500	102	NR	REM	4,575	44.85	2,970	29.12	5	0.05	682	6.69	304	2.98	0	0.00
Vilas	Ballard	2340700	505	C-ST	C-	20,234	40.07	2,758	5.46	7,979	15.80	1,309	2.59	1,329	2.63	35	0.07
Vilas	Big Arbor Vitae	1545600	1,090	NR	C-	59,130	54.25	24,624	22.59	13,439	12.33	663	0.61	8,702	7.98	8,054	7.39
Vilas	Big Saint Germain	1591100	1,617	C-ST	ST	63,473	39.25	24,951	15.43	15,320	9.47	8,536	5.28	2,045	1.26	6,797	4.20
Vilas	Black Oak	1630100	584	C-ST	O	7,884	13.50	1,544	2.64	23	0.04	1,663	2.85	2,959	5.07	1,443	2.47
Vilas	Irving	2340900	403	O-ST	ST	9,972	24.74	708	1.76	3,093	7.67	406	1.01	390	0.97	0	0.00
Vilas	White Birch	2340500	117	C-NR	C-	4,245	36.28	431	3.68	1,629	13.92	92	0.79	0	0.00	0	0.00

Walleye

County	Lake	MWBIC	Acres	WAE Recruit Code	Initial WAE Bag	Final WAE Bag	WAE Size Reg.	Adult PE	APEAc	Angler Catch	Angler Catch/ Acre	Angler Harvest	Angler Harvest/ Acre	Specific catch rate	Specific harvest rate	No. fish measured	Mean length	General catch rate	General harvest rate
Bayfield	Long	2767100	263	ST	2	3	15	115	0.44	12	0.05	12	0.05	0.00	0.00	3	20.2	0.00	0.00
Iron	Pine	2949200	312	NR	2	3	1>14	2,490	7.98	1,710	5.48	1,000	3.21	0.46	0.27	168	12.75	0.29	0.17
Oconto	Archibald	417400	393	C-ST	2	3	15	459	1.17	79	0.20	60	0.15	0.02	0.01	17	18.62	0.00	0.00
Oneida	Muskellunge	1595600	284	NR	3	3	1>14	421	1.48	109	0.38	60	0.21	0.04	0.02	17	16.81	0.02	0.01
Oneida	Pelican	1579900	3,585	NR	2	2	15	8,632	2.41	13,479	3.76	3,915	1.09	0.23	0.07	259	17.81	0.08	0.02
Oneida	Two Sisters	1588200	719	C-NR	3	3	1>14	995	1.38	274	0.38	231	0.32	0.05	0.04	37	20.02	0.02	0.02
Polk	Balsam	2620600	2,054	C-ST	2	2	15	1,528	0.74	747	0.36	613	0.30	0.05	0.04	42	19.67	0.01	0.01
Sawyer	Windfall	2046500	102	NR	2	2	15	1,402	13.75	1,189	11.66	301	2.95	0.35	0.10	102	14.95	0.28	0.07
Vilas	Ballard	2340700	505	C-ST	3	3	15	2,004	3.97	600	1.19	151	0.30	0.20	0.05	75	19.27	0.03	0.01
Vilas	Big Arbor Vitae	1545600	1,090	NR	3	3	1>14	8,515	7.81	3,014	2.77	2,117	1.94	0.12	0.09	519	15.04	0.05	0.04
Vilas	Big Saint Germain	1591100	1,617	C-ST	2	2	15	4,843	3.00	3,506	2.17	1,588	0.98	0.13	0.06	111	19.44	0.06	0.03
Vilas	Black Oak	1630100	584	C-ST	2	3	15	507	0.87	196	0.34	138	0.24	0.09	0.09	37	20.20	0.03	0.02
Vilas	Irving	2340900	403	O-ST	3	5	15	403	1.00	78	0.19	26	0.06	0.08	0.04	1	15.5	0.01	0.00
Vilas	White Birch	2340500	117	C-NR	3	5	15	165	1.41	15	0.13	13	0.11	0.03	0.03	5	22.94	0.01	0.01

Musky

County	Lake	MWBIC	Acres	MRC	Musky size limit	Angler catch	Angler catch/ acre	Angler harvest	Angler harvest/ acre	Specific catch rate	Specific harvest rate	General catch rate	General harvest rate	No. fish measured	Mean length
Bayfield	Long	2767100	263	O	34	0	0.00	0	0.0000			0.00	0.00	0	
Iron	Pine	2949200	312	NR	40	129	0.41	0	0.0000	0.06	0.00	0.03	0.00	0	
Oconto	Archibald	417400	393	NR	40	64	0.16	0	0.0000	0.01	0.00	0.00	0.00	0	
Oneida	Muskellunge	1595600	284	C-	34	61	0.21	0	0.0000	0.02	0.00	0.01	0.00	0	
Oneida	Pelican	1579900	3585	ST	50	216	0.06	0	0.0000	0.01	0.00	0.00	0.00	0	
Oneida	Two Sisters	1588200	719	C-	34	79	0.11	0	0.0000	0.01	0.00	0.01	0.00	0	
Polk	Balsam	2620600	2054	O	34	0	0.00	0	0.0000			0.00	0.00		
Sawyer	Windfall	2046500	102	REM	34	0	0.00	0	0.0000	0.00	0.00	0.00	0.00	0	
Vilas	Ballard	2340700	505	C-	34	209	0.41	4	0.0079	0.02	0.00	0.01	0.00	1	37.00
Vilas	Big Arbor Vitae	1545600	1090	C-	34	421	0.39	7	0.0064	0.02	0.00	0.01	0.00	1	37.30
Vilas	Big Saint Germain	1591100	1617	ST	34	390	0.24	0	0.0000	0.02	0.00	0.01	0.00	0	
Vilas	Black Oak	1630100	584	O	34	0	0.00	0	0.0000	0.00	0.00	0.00	0.00	0	
Vilas	Irving	2340900	403	ST	34	93	0.23	4	0.0099	0.03	0.00	0.01	0.00	1	35.30
Vilas	White Birch	2340500	117	C-	34	0	0.00	0	0.0000	0.00	0.00	0.00	0.00	0	

Northern Pike

County	Lake	MWBIC	Acres	Angler catch	Angler catch/ acre	Angler harvest	Angler harvest/ acre	Specific catch rate	Specific harvest rate	General catch rate	General harvest rate	No. fish measured	Mean length
Bayfield	Long	2767100	263	2809	10.68	684	2.60	0.45	0.12	0.28	0.06	209	20.38
Iron	Pine	2949200	312	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0	
Oconto	Archibald	417400	393	1338	3.40	245	0.62	0.14	0.02	0.06	0.01	86	19.27
Oneida	Muskellunge	1595600	284	822	2.89	165	0.58	0.24	0.07	0.11	0.02	54	21.11
Oneida	Pelican	1579900	3585	14977	4.18	6032	1.68	0.25	0.14	0.09	0.04	437	22.47
Oneida	Two Sisters	1588200	719	457	0.64	128	0.18	0.13	0.08	0.03	0.01	20	29.56
Polk	Balsam	2620600	2054	7415	3.61	308	0.15	0.26	0.02	0.08	0.00	24	27.77
Sawyer	Windfall	2046500	102	1199	11.75	224	2.20	0.28	0.18	0.30	0.06	74	17.54
Vilas	Ballard	2340700	505	568	1.12	78	0.15	0.09	0.02	0.03	0.00	44	22.43
Vilas	Big Arbor Vitae	1545600	1090	18	0.02	8	0.01	0.00	0.00	0.00	0.00	3	31.77
Vilas	Big Saint Germain	1591100	1617	3496	2.16	941	0.58	0.12	0.05	0.06	0.01	163	24.17
Vilas	Black Oak	1630100	584	755	1.29	116	0.20	0.35	0.05	0.10	0.01	25	22.02
Vilas	Irving	2340900	403	275	0.68	75	0.19	0.34	0.16	0.03	0.01	14	21.53
Vilas	White Birch	2340500	117	11	0.09	4	0.03	0.08	0.01	0.05	0.02	2	20.70

Smallmouth Bass

County	Lake	MWBIC	Acres	Angler catch	Angler catch/ acre	Angler harvest	Angler harvest/ acre	Specific catch rate	Specific harvest rate	General catch rate	General harvest rate	No. fish measured	Mean length
Bayfield	Long	2767100	263	42	0.16	0	0.00	2.12	0.00	0.12	0.00	0	
Iron	Pine	2949200	312	197	0.63	0	0.00	0.31	0.00	0.04	0.00	0	
Oconto	Archibald	417400	393	13	0.03	0	0.00	0.00	0.00	0.01	0.00	0	
Oneida	Muskellunge	1595600	284	135	0.48	4	0.01	0.27	0.02	0.03	0.00	1	17.30
Oneida	Pelican	1579900	3585	9067	2.53	149	0.04	0.40	0.01	0.08	0.00	11	18.82
Oneida	Two Sisters	1588200	719	3419	4.76	354	0.49	0.58	0.11	0.27	0.03	50	16.36
Polk	Balsam	2620600	2054	457	0.22	7	0.00	0.01	0.00	0.01	0.00	1	15.20
Sawyer	Windfall	2046500	102										
Vilas	Ballard	2340700	505	245	0.49	0	0.00	0.07	0.00	0.02	0.00	0	
Vilas	Big Arbor Vitae	1545600	1090	2991	2.74	111	0.10	0.18	0.01	0.06	0.00	23	15.72
Vilas	Big Saint Germain	1591100	1617	6175	3.82	353	0.22	0.43	0.04	0.11	0.01	16	15.73
Vilas	Black Oak	1630100	584	830	1.42	133	0.23	0.47	0.09	0.12	0.02	19	15.53
Vilas	Irving	2340900	403	79	0.20	0	0.00	--	--	0.03	0.00	0	
Vilas	White Birch	2340500	117	55	0.47	0	0.00	--	--	0.11	0.00	0	

Largemouth Bass

County	Lake	MWBIC	Acres	Angler catch	Angler catch/ acre	Angler harvest	Angler harvest/ acre	Specific catch rate	Specific harvest rate	General catch rate	General harvest rate	No. fish measured	Mean length
Bayfield	Long	2767100	263	2303	8.76	79	0.30	0.91	0.03	0.24	0.01	20	16.30
Iron	Pine	2949200	312	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0	
Oconto	Archibald	417400	393	6855	17.44	39	0.10	0.63	0.00	0.31	0.00	18	14.90
Oneida	Muskellunge	1595600	284	647	2.28	0	0.00	0.39	0.00	0.10	0.00	0	
Oneida	Pelican	1579900	3585	8632	2.41	30	0.01	0.58	0.00	0.06	0.00	1	18.20
Oneida	Two Sisters	1588200	719	1777	2.47	141	0.20	0.53	0.08	0.14	0.01	12	16.18
Polk	Balsam	2620600	2054	143377	69.80	4753	2.31	3.22	0.09	1.58	0.05	306	13.84
Sawyer	Windfall	2046500	102	165	1.62	2	0.02	0.07	0.00	0.04	0.00	1	14.00
Vilas	Ballard	2340700	505	3724	7.37	9	0.02	0.63	0.01	0.18	0.00	3	15.53
Vilas	Big Arbor Vitae	1545600	1090	10016	9.19	221	0.20	0.83	0.02	0.17	0.00	47	15.01
Vilas	Big Saint Germain	1591100	1617	1478	0.91	44	0.03	0.28	0.00	0.03	0.00	2	15.10
Vilas	Black Oak	1630100	584	2150	3.68	283	0.48	0.60	0.09	0.30	0.04	40	15.22
Vilas	Irving	2340900	403	2140	5.31	5	0.01	0.94	0.00	0.22	0.00	1	15.40
Vilas	White Birch	2340500	117	443	3.79	0	0.00	--	--	0.34	0.00	0	

Appendix E. WDNR Walleye Population Estimates Accepted For Use by the Treaty TWG in 2011.

MWBC	County	Lake	Acres	Angler Reg	Recruit Code	Adult PE	CV Adult PE	L95 C.I. Adults	Adult PE/Acre	Adult 0-12”	Adult 12-15”	Adult 15-20”	Adult 20+”
653700	Florence	Patten	255	1>14	NR	145	0.1547	176	0.98	2	35	127	86
1595600	Oneida	Muskellunge	284	1>14	NR	258	0.1243	297	1.48	20	135	149	118
1579900	Oneida	Pelican	3585	15	NR	3910	0.1675	5217	2.41	107	1131	5677	1716
1588200	Oneida	Two Sisters	719	15	C-NR	460	0.1717	596	1.38	35	140	348	472
1545600	Vilas	Big Arbor Vitae	1090	1>14	NR	7446	0.0802	7172	7.81	264	4995	3112	143
2339900	Vilas	Escanaba	293	28	NR	1681	0.2136	2353	12.86	16	942	2730	79
2340500	Vilas	White Birch	117	15	C-NR	122	0.1485	125	1.41	12	83	44	26
2079800	Barron	Upper Turtle	438	18	C-NR	212	0.159	303	1.07	1	6	132	330
2742700	Bayfield	Upper Eau Claire	996	15	C-NR	318	0.144	435	0.56	1	72	405	80
2152800	Chippewa	Wissota	6300	Slot14-18	NR	4291	0.071	5366	1.02	973	2383	2613	469
2949200	Iron	Pine	312	1>14	NR	2327	0.084	2093	7.98	1089	1323	66	12
2399700	Sawyer	Chippewa Fl.	15300	None	C-NR	23577	0.045	40475	3.07	592	18725	19148	8519
2046500	Sawyer	Windfall	102	15	NR	1233	0.047	1274	13.75	241	1051	106	4
1494600	Lincoln	Alexander	677	Slot20-28	NR-2	569	0.288	462	1.36	104	665	135	19
417400	Oconto	Archibald	393	15	C-ST	355	0.1289	352	1.17	11	90	297	62
2340700	Vilas	Ballard	505	15	C-ST	1035	0.0993	1608	3.97	417	865	358	364
1591100	Vilas	Big St Germain	1617	15	C-ST	3240	0.1847	3253	2.99	18	518	3281	1026
1630100	Vilas	Black Oak	584	15	C-ST	326	0.1437	390	0.87	1	117	257	132
1593400	Vilas	Lost	544	15	C-ST	301	0.1628	322	0.91	1	5	321	170
2914800	Ashland	English	244	15	ST	46	0.112	156	0.77	1	1	33	152
2620600	Polk	Balsam	2054	15	C-ST	417	0.096	1210	0.74	1	112	664	752

Appendix E. Continued.

	County	Lake	Acres	Angler Reg	Recruit Code	PE - Males	CV Male PE	PE - Females	CV Female PE	M:F Ratio
653700	Florence	Patten	255	1>14	NR	145	0.15	96	0.41	1.51
1595600	Oneida	Muskellunge	284	1>14	NR	258	0.12	159	0.34	1.62
1579900	Oneida	Pelican	3585	15	NR	3910	0.17	4923	0.39	0.79
1588200	Oneida	Two Sisters	719	15	C-NR	460	0.17	586	0.44	0.78
1545600	Vilas	Big Arbor Vitae	1090	1>14	NR	7446	0.08	894	0.42	8.33
2339900	Vilas	Escanaba	293	28	NR	1681	0.21	962	0.28	1.75
2340500	Vilas	White Birch	117	15	C-NR	122	0.15	40	0.00	3.05
2079800	Barron	Upper Turtle	438	18	C-NR	212	0.16	258	0.31	0.82
2742700	Bayfield	Upper Eau Claire	996	15	C-NR	318	0.14	1095	0.64	0.29
2152800	Chippewa	Wissota	6300	Slot14-18	NR	4291	0.07	10670	0.67	0.40
2949200	Iron	Pine	312	1>14	NR	2327	0.08	164	0.33	14.19
2399700	Sawyer	Chippewa Fl.	15300	None	C-NR	23577	0.05	28005	0.16	0.84
2046500	Sawyer	Windfall	102	15	NR	1233	0.05	158	0.22	7.80
1494600	Lincoln	Alexander	677	Slot20-28	NR-2	569	0.29	88	0.05	6.47
417400	Oconto	Archibald	393	15	C-ST	355	0.13	80	0.22	4.44
2340700	Vilas	Ballard	505	15	C-ST	1035	0.10	1177	0.24	0.88
1591100	Vilas	Big St Germain	1617	15	C-ST	3240	0.18	1271	0.29	2.55
1630100	Vilas	Black Oak	584	15	C-ST	326	0.14	195	0.24	1.67
1593400	Vilas	Lost	544	15	C-ST	301	0.16	97	0.00	3.10
2914800	Ashland	English	244	15	ST	46	0.11	151	0.13	0.30
2620600	Polk	Balsam	2054	15	C-ST	417	0.10	1484	0.21	0.28

Appendix F. Muskellunge Population Estimates.

Muskellunge population estimates were conducted over two years and completed in spring 2012; They represent 2011 population sizes. In year one, all sexable fish plus unknowns ≥ 30" are counted. In year two, all sexable fish plus unknowns ≥ 32" are counted, except take the lesser of 30" or the smallest half-inch group observed for each sex in the first year; for the second year, do not count sexable fish less than this minimum length plus 2", or plus a different growth correction derived from the data for the lake. No stratification by length or sex is used, and the Chapman correction of the Petersen estimator is used, (M+1)(C+1)/(R+1).

MWBC	County	Lake	Acres	Angler Regulation (Min Size)	Recruit Code	Adult PE	CV of PE	Density #/Acre
2914800	Ashland	English	244	34	C-	176	35.9	0.72
2742700	Bayfield	Upper Eau Claire	996	40	C-	97	19.8	0.10
2949200	Iron	Pine	312	40	NR	106	18.3	0.34
1516401	Lincoln	Rice R. Flowage Chain	3,764	40	NR	166	19.2	0.04
1579000	Oneida	Pelican	3,585	50	ST	241	14.1	0.07
1588200	Oneida	Two Sisters	719	40	C-	65	32.0	0.09
2628100	Polk	Bone	1,781	50	ST	916	16.7	0.51
1545600	Vilas	Big Arbor Vitae	1,090	34	C-	449	19.8	0.41
2340900	Vilas	Irving	403	34	ST	287	18.8	0.71

Appendix G. YOY Walleye Survey Summaries.

Lake	County	WBIC	Acres	Walleye Recruit Code	Model	Date	Temp	Total Shore	ShockMi	%Shock	Age0	Age0 Min Length	Age0 Max Length	Age0 Modal Length	Age0Mi	Serns	Hansen	Age1	Age1 Min Length	Age1 Max Length	Age1 Modal Length	Age1Mi	WEStock
Emily	Florence	651600	191	C-ST	stocked	10/04/2011	54	2.5	2.5	100	7	6.6	7.6		2.80	0.66	0.17	1	11.3	11.3		0.40	B
Fay	Florence	677100	282	ST	stocked	10/06/2011	57	4.5	3.7	82	1	6.0	6.0		0.27	0.06	0.00	0				0.00	B
Halsey	Florence	679300	517	O-ST	remnant	10/06/2011	60	4.1	3.5	85	0				0.00	0.00	0.00	0				0.00	B
Patten	Florence	653700	255	NR	natural	09/01/2011	56	3.9	3.8	97	60	4.4	7.7	7.0	15.79	3.69	2.58	74	8.4	11.7	10.7	19.47	N
Sea Lion	Florence	672300	125	O-ST	remnant	09/27/2011	58	3.8	3.4	89	0				0.00	0.00	0.00	0				0.00	B
Arbutus	Forest	181400	159	C-ST	stocked	10/04/2011	56	2.5	2.2	88	0				0.00	0.00	0.00	0				0.00	N
Butternut	Forest	692400	1293	C-NR	natural	10/03/2011	58	7.8	7.8	100	584	3.4	7.6	4.2	74.87	17.52	29.46	13	8.4	11.6		1.67	N
Crane	Forest	388500	337	ST	stocked	09/30/2011	52	3.9	3.8	97	2	6.4	7.5		0.53	0.12	0.01	0				0.00	B
Franklin	Forest	692900	892	C-NR	natural	10/05/2011	58	6.6	6.6	100	43	4.3	7.6		6.52	1.53	0.65	1	10.1	10.1		0.15	N
Little Long	Forest	190500	102	O-ST	remnant	09/19/2011	61	2.4	2.4	100	0				0.00	0.00	0.00	0				0.00	N
Richardson	Forest	479700	47	O		09/27/2011	57	1.4	1.0	71	0				0.00	N/A	N/A	0				0.00	N
Roberts	Forest	378400	415	C-ST	stocked	10/04/2011	56	4.5	4.5	100	3	5.8	7.0		0.67	0.16	0.02	1	10.7	10.7		0.22	B
Silver	Forest	555700	334	O-ST	remnant	09/19/2011	56	3.8	3.7	97	7	6.3	7.0		1.89	0.44	0.09	0				0.00	B
Glade	Langlade	0421200	26	O		09/26/2011	57	1.0	1.0	100	0				0.00	0.00	0.00	0				0.00	N
High	Langlade	1444600	27	NONE	none	10/17/2011	50	1.4	1.4	100	0				0.00	N/A	N/A	0				0.00	N
Lower Bass	Langlade	1002300	89	NONE	none	10/10/2011	61	4.0	3.9	98	0				0.00	0.00	0.00	0				0.00	N
Perch	Langlade	195700	24	NONE	none	09/21/2011	60	1.0	1.0	100	0				0.00	N/A	N/A	0				0.00	N
Pickerel	Langlade	388100	1299	O-ST	remnant	09/30/2011	52	8.1	5.5	68	0				0.00	N/A	N/A	0				0.00	N
Rose	Langlade	494200	112	C-ST	stocked	09/26/2011	58	7.3	7.2	99	0				0.00	N/A	N/A	0				0.00	N
Summit	Langlade	1445600	282	O-ST	remnant	09/28/2011	62	3.3	3.3	100	0				0.00	0.00	0.00	7	9.5	11.0		2.12	N
Upper Post	Langlade	399200	757	C-ST	stocked	10/04/2011	55	7.6	4.7	62	0				0.00	N/A	N/A	0				0.00	N
Alexander	Lincoln	1494600	677	NR-2	remnant	10/06/2011	60	16.1	4.8	30	15	3.9	5.4	4.3	3.13	N/A	N/A	22	7.9	9.4	8.3	4.58	N
Halfmoon	Lincoln	988000	100	O		10/03/2011	61	2.3	2.3	100	0				0.00	N/A	N/A	0				0.00	N
Seven Island	Lincoln	1490300	132	C-ST	stocked	09/19/2011	61	4.0	4.0	100	13	6.5	7.9		3.25	0.76	0.22	0				0.00	B
Spirit Reservoir	Lincoln	1506800	1664	C-NR	natural	10/03/2011	61	50.3	4.3	9	218	4.5	7.8	5.3	50.70	N/A	N/A	36	8.8	11.0	10.7	8.37	N
Squaw	Lincoln	1564400	79	ST	stocked	09/22/2011	59	2.3	2.3	100	0				0.00	0.00	0.00	0				0.00	N
Tug	Lincoln	1482400	151	C-NR	natural	09/27/2011	58	2.7	2.3	85	0				0.00	0.00	0.00	0				0.00	N
Archibald	Oconto	417400	393	C-ST	stocked	)/17&18/2011	52	8.8	7.1	81	17	6.5	7.8		2.39	N/A	N/A	1	11.8	11.8		0.14	N
Waubee	Oconto	439500	124	O-ST	remnant	09/27/2011	59	3.3	3.3	100	0				0.00	0.00	0.00	0				0.00	N
Bass	Oneida	1580300	124	NR	natural	09/13/2011	67	6.4	6.4	100	0				0.00	0.00	0.00	0				0.00	N
Boom	Oneida	1580200	437	NR-2	remnant	09/15/2011	63	6.9	6.9	100	23	5.2	6.9	6.7	3.33	0.78	0.23	0				0.00	N
Booth	Oneida	1537800	207	C-ST	stocked	10/05/2011	61	3.6	3.5	97	0				0.00	0.00	0.00	0				0.00	N
Fifth	Oneida	1571100	240	NR	natural	09/23/2011	57	4.5	4.5	100	0				0.00	0.00	0.00	3	10.9	11.9		0.67	N
Fourth	Oneida	1572000	258	NR	natural	09/23/2011	57	2.6	2.6	100	0				0.00	0.00	0.00	1	11.1	11.1		0.38	N
Gilmore	Oneida	1589300	320	ST	stocked	09/06/2011	67	4.4	4.4	100	1	6.4	6.4		0.23	0.05	0.00	0				0.00	B
Indian	Oneida	1598900	397	NR	natural	09/19/2011	61	5.1	5.1	100	2	5.6	6.0		0.39	0.09	0.01	3	11.4	11.6		0.59	N
Muskellunge	Oneida	1595600	284	NR	natural	10/04/2011	59	4.0	4.0	100	17	5.1	7.8		4.25	0.99	0.33	3	10.5	10.8		0.75	N
North Nokomis	Oneida	1595800	476	C-ST	stocked	09/09/2011	69	7.3	7.3	100	106	4.8	7.2	6.2	14.52	3.40	2.27	0				0.00	B
Pelican	Oneida	1579900	3585	NR	natural	09/22/2011	56	16.7	16.7	100	252	4.4	7.4	6.1	15.09	3.53	2.41	144	8.2	11.2	10.3	8.62	N
Rhinelander Fl.	Oneida	1580100	1326	NR	natural	09/16/2011	58	26.2	14.2	54	5	5.5	6.8		0.35	N/A	N/A	1	11.0	11.0		0.07	N
Squirrel	Oneida	1536300	1317	NR	natural	10/17/2011	52	13.9	7.7	55	0				0.00	N/A	N/A	0				0.00	N
Thunder	Oneida	1580400	172	NR	natural	09/11/2011	71	6.6	6.6	100	0				0.00	0.00	0.00	0				0.00	N
Thunder (Three Lks)	Oneida	1618100	1768	C-ST	stocked	09/07/2011	66	10.6	6.9	65	47	4.0	6.2		6.81	N/A	N/A	0				0.00	B
Two Sisters	Oneida	1588200	719	C-NR	natural	10/06/2011	60	9.3	9.1	98	142	4.9	7.9	6.8	15.60	3.65	2.54	0				0.00	B
Ballard	Vilas	2340700	505	C-ST	stocked	09/19/2011	61	5.5	5.5	100	5	6.1	7.0		0.91	0.21	0.03	0				0.00	B
Big Arbor Vitae	Vilas	1545600	1090	NR	natural	10/11/2011	61	7.8	7.8	100	133	4.5	7.8		17.05	3.99	2.91	10	8.8	10.7		1.28	N
Big Kitten	Vilas	2336700	55	NR-2	remnant	10/18/2011	48	1.8	1.5	83	0				0.00	N/A	N/A	0				0.00	N
Big St Germain	Vilas	1591100	1617	C-ST	stocked	09/28/2011	61	7.6	7.6	100	313	5.1	7.6	6.7	41.18	9.64	11.57	1	9.9	9.9		0.13	A
Big Sand	Vilas	1602600	1418	ST	stocked	09/30/2011	55	8.5	7.0	82	2	7.1	8.4		0.29	0.07	0.00	0				0.00	N
Black Oak	Vilas	1630100	584	C-ST	stocked	10/03/2011	58	7.4	6.3	85	64	4.6	6.7	5.6	10.16	2.38	1.30	1	8.6	8.6		0.16	N
Circle Lily	Vilas	2326700	223	NR-2	remnant	10/07/2011	58	3.8	3.8	100	22	4.6	6.6	5.2	5.79	1.35	0.54	45	7.3	10.4	8.7	11.84	B
Dead Pike	Vilas	2316600	297	C-ST	stocked	09/23/2011	58	3.8	3.3	86	0				0.00	0.00	0.00	46	8.1	11.3	9.9	13.94	N
Escanaba	Vilas	2339900	293	NR	natural	09/13/2011	66	5.2	5.2	100	73	3.8	6.7	5.7	14.04	3.29	2.15	56	7.5	11.6	8.4	10.77	N
Little Horsehead	Vilas	2953000	52	NR	natural	10/19/2011	49	1.9	1.9	100	2	6.7	7.7		1.05	0.25	0.04	0				0.00	N
Little John	Vilas	2332300	166	C-NR	natural	09/22/2011	59	3.3	3.0	91	635	4.4	8.8	7.3	211.67	49.53	149.67	7	9.8	10.7		2.33	N
Little St Germain	Vilas	1596300	980	ST	stocked	10/10/2011	60	12.9	3.3	26	5	5.9	7.1		1.52	N/A	N/A	12	7.8	11.0		3.64	B

Lake	County	WBIC	Acres	Walleye Recruit Code	Model	Date	Temp	Total Shore	ShockMi	%Shock	Age0	Age0 Min Length	Age0 Max Length	Age0 Modal Length	Age0Mi	Serns	Hansen	Age1	Age1 Min Length	Age1 Max Length	Age1 Modal Length	Age1Mi	WEStock
Long	Vilas	1602300	872	C-ST	stocked	09/15/2011	61	8.2	7.9	96	0				0.00	N/A	N/A	14	7.2	9.8		1.77	A
Lost	Vilas	1593400	544	C-ST	stocked	10/05/2011	58	4.6	4.6	100	0				0.00	N/A	N/A	2	10.9	11.8		0.43	A
Plum	Vilas	1592400	1033	NR	natural	09/27/2011	59	14.5	14.5	100	1616	3.2	7.3	4.8	111.45	26.08	54.88	57	7.6	10.3	9.4	3.93	N
Snipe	Vilas	1018500	239	NR	natural	09/20/2011	61	3.5	3.5	100	601	6.4	8.3	7.4	171.71	40.18	107.91	3	11.0	11.2		0.86	N
Sparkling	Vilas	1881900	154	C-ST	stocked	09/13/2011	67	2.4	2.3	96	71	4.3	6.7	5.7	30.87	7.22	7.37	2	9.9	10.8		0.87	B & A
Squaw	Vilas	2271600	785	NR	natural	10/10/2011	59	9.0	6.0	67	173	5.2	7.9	6.4	28.83	N/A	N/A	50	8.5	10.2	9.7	8.33	N
White Birch	Vilas	2340500	117	C-NR	natural	09/19/2011	63	2.3	2.3	100	0				0.00	0.00	0.00	0				0.00	B
Wildcat	Vilas	2336800	505	C-ST	stocked	10/18/2011	48	5.0	5.0	100	0				0.00	0.00	0.00	39	8.9	11.0	9.8	7.80	N
English	Ashland	2914800	244	ST	stocked	10/6/2011	60-62	4.1	3.8	93	6	7.3	7.8	7.6	1.58	N/A	N/A	*	-	-	-	-	B
Gordon	Ashland	2406500	142	NR	natural	9/22/2011	55	4.3	3.6	84	4	6.4	6.6	6.6	1.11	N/A	N/A	10	8.6	9.9	None	2.78	N
Mineral	Ashland	2916900	225	C-NR	natural	10/10/2011	63	5.3	4.8	91	82	5.5	8.2	6.9	17.08	N/A	N/A	*	-	-	-	-	N
Potter	Ashland	2917200	29	ST	stocked	10/4/2011	59	0.9	0.9	100	4	7.2	8.1	None	4.44	N/A	N/A	0	-	-	-	0.00	B
Spillerberg	Ashland	2936200	75	NR	natural	10/4/2011	60	1.5	1.5	100	90	5.7	8.0	6.6	60.00	N/A	N/A	110	8.2	11.4	9.5	73.33	N
Bear	Barron	2105100	1358	0-ST	remnant	10/13/2011	61	14.9	6.0	40	1	8.1	8.1	None	0.17	N/A	N/A	19	9.4	11.0	10.5-10.6	3.17	N
Granite	Barron	2100800	154	C-NR	natural	10/12/2011	62	3.4	3.4	100	84	6.0	8.8	7.7	24.71	N/A	N/A	26	10.0	13.4	12.0-12.4	7.65	N
Horseshoe	Barron	2469800	115	ST	stocked	9/26/2011	60	2.5	2.5	100	0	-	-	-	0.00	N/A	N/A	15	8.5	11.5	5-9.9, 10.0-10	6.00	N
Lower Turtle	Barron	2079700	276	C-ST	stocked	9/27/2011	61	3.8	3.8	100	6	6.5	7.9	6.5-6.9	1.58	N/A	N/A	38	8.5	12.9	10.0-10.4	10.00	N
Upper Turtle	Barron	2079800	438	C-NR	natural	9/28/2011	63	4.8	4.8	100	19	5.5	6.9	6.0-6.4	3.96	N/A	N/A	18	10.5	13.4	12.0-12.4	3.75	N
Chippewa	Bayfield	2431300	274	O		9/22/2011	55	4.3	2.3	53	0	-	-	-	0.00	N/A	N/A	0	-	-	-	0.00	N
Crystal	Bayfield	2897300	111	C-NR	natural	9/22/2011	62	2.5	2.5	100	0	-	-	-	0.00	N/A	N/A	0	-	-	-	0.00	N
Diamond	Bayfield	2897100	341	C-ST	stocked	9/19/2011	63	5.0	5.0	100	0	-	-	-	0.00	0.00	0.00	5	9.4	10.8	None	1.00	A
Long	Bayfield	2767100	263	ST	stocked	9/22/2011	55-60	6.8	6.8	100	0	-	-	-	0.00	0.00	0.00	0	-	-	-	0.00	N
Middle Eau Claire	Bayfield	2742100	902	C-NR	natural	10/3/2011	60-62	11.0	7.7	70	463	3.3	6.7	4.1	60.13	N/A	N/A	44	7.0	10.6	9.4	5.71	N
Fish	Burnett	2464500	356	0-ST	remnant	9/14/2011	66	4.3	4.3	100	0	-	-	-	0.00	N/A	N/A	0	-	-	-	0.00	N
Lipsett	Burnett	2678100	393	ST	stocked	9/15/2011	65	3.5	3.5	100	2	4.8	6.4	None	0.57	N/A	N/A	0	-	-	-	0.00	B
Round	Burnett	2640100	204	ST	stocked	10/5/2011	60	3.2	3.2	100	6	7.6	8.5	8.2	1.88	N/A	N/A	0	-	-	-	0.00	B
Upper Clam	Burnett	2656200	1207	REM	remnant	9/28/2011	60	12.5	4.0	32	69	5.0	8.3	None	17.25	N/A	N/A	1	11.9	11.9	-	0.25	N
Yellow	Burnett	2675200	2287	C-NR	natural	10/6/2011	59-68	7.9	7.9	100	38	5.0	8.8	7.3	4.81	N/A	N/A	28	9.5	11.8	10.8	3.54	N
Altoona	Eau Claire	2128100	840	NR	natural	10/11/2011	64	9.4	4.0	43	334	4.5	7.9	5.5-5.9	83.50	N/A	N/A	36	8.5	11.4	10.0-10.4	9.00	N
Dell'S Pond	Eau Claire	2149900	739	NR	natural	10/10/2011	64	14.5	4.4	30	141	3.4	7.7	5.1	32.05	N/A	N/A	12	8.6	9.6	9.0-9.1	2.73	N
L Eau Claire	Eau Claire	2133200	860	NR	natural	10/5/2011	60	24.3	4.0	16	269	4.3	7.0	5.1	67.25	N/A	N/A	*	-	-	-	-	N
Mcdermott	Iron	2296500	84	0-ST	remnant	10/10/2011	58	2.6	2.6	100	0	-	-	-	0.00	N/A	N/A	0	-	-	-	0.00	N
Pine	Iron	2949200	312	NR	natural	9/20/2011	58-60	6.0	6.0	100	36	3.9	5.7	4.4, 4.7	6.00	N/A	N/A	288	6.6	9.6	7.3	48.00	N
Randall	Iron	2318500	115	NR	natural	10/6/2011	57	2.1	2.1	100	0	-	-	-	0.00	N/A	N/A	0	-	-	-	0.00	N
Balsam	Polk	2620600	2054	C-ST	stocked	10/5/2011	60-62	22.7	22.7	100	0	-	-	-	0.00	N/A	N/A	1	11.7	11.7	-	0.04	N
Big Butternut	Polk	2641000	378	C-ST	stocked	10/4/2011	61	3.4	3.4	100	17	5.8	8.3	5.9, 6.4	5.00	1.17	0.43	0	-	-	-	0.00	N
Half Moon	Polk	2621100	579	ST	stocked	10/11/2011	62	7.1	7.1	100	14	5.5	7.9	5.5-5.9	1.97	0.46	0.10	0	-	-	-	0.00	B
Pipe	Polk	2490500	284	C-ST	stocked	10/10/2011	63	5.0	5.0	100	138	4.9	8.0	6.3	27.60	6.46	6.19	0	-	-	-	0.00	N
Ward	Polk	2599400	91	ST	stocked	10/6/2011	62	2.3	2.3	100	0	-	-	-	0.00	0.00	0.00	26	10.0	12.9	None	11.30	N
Patterson	Price	1872500	70	0-ST	remnant	9/29/2011	62	1.8	1.8	100	41	6.7	7.9	7.2	22.78	N/A	N/A	4	9.8	11.4	None	2.22	N
Thompson	Price	2265900	111	NR-2	remnant	10/3/2011	60	1.9	1.9	100	0	-	-	-	0.00	N/A	N/A	0	-	-	-	0.00	N
Whitcomb	Price	2266100	44	ST	stocked	10/3/2011	62	1.7	1.7	100	0	-	-	-	0.00	N/A	N/A	0	-	-	-	0.00	N
Ghost	Sawyer	2423000	372	C-ST	stocked	10/5/2011	60	7.3	2.8	38	18	6.0	6.9	6.4	6.43	N/A	N/A	6	9.3	11.8	None	2.14	N
Grindstone	Sawyer	2391200	3111	C-NR	natural	10/4/2011	58-61	10.5	10.5	100	724	3.7	8.2	4.5, 6.6	68.95	16.13	25.90	14	9.6	11.7	10.2	1.33	N
Island	Sawyer	2381800	67	0-ST	remnant	9/22/2011	57	1.5	1.5	100	1	7.7	7.7	None	0.67	N/A	N/A	0	-	-	-	0.00	A
L Chippewa	Sawyer	2399700	15300	C-NR	natural	9/26-29/2011	55-62	232.9	95.7	41	1413	4.1	7.9	7.0	14.76	N/A	N/A	*	-	-	-	-	A
Lower Clam	Sawyer	2429300	203	C-ST	stocked	10/11/2011	62	4.2	4.0	95	27	5.8	8.0	None	6.75	1.58	0.68	*	-	-	-	-	N
Spider	Sawyer	2435700	1454	ST	stocked	10/02/2011	57-59	20.8	4.0	19	2	7.4	7.5	None	0.50	N/A	N/A	*	-	-	-	-	Y
Windfall	Sawyer	2046500	102	NR	natural	9/21/2011	63	1.6	1.6	100	60	4.4	7.2	5.6	37.50	8.78	9.99	*	-	-	-	-	N
Cedar	St. Croix	2615100	1100	NR	natural	10/18/2011	55	6.3	3.5	56	335	5.0	7.4	6.2	95.71	N/A	N/A		-	-	-	-	N
Richter	Taylor	1760000	45	0-ST	remnant	9/21/2011	60	1.7	1.7	100	0	-	-	-	0.00	N/A	N/A	0	-	-	-	0.00	N
Spruce	Taylor	2163800	20			9/21/2011	60	0.8	0.8	100	0	-	-	-	0.00	N/A	N/A	0	-	-	-	0.00	N
L Nancy	Washburn	2691500	772	C-ST	stocked	9/21/2011	62	10.9	5.6	51	2	6.6	6.9	None	0.36	N/A	N/A	0	-	-	-	0.00	B
Long	Washburn	2106800	3290	C-NR	natural	10/4/2011	61-62	38.0	12.0	32	97	5.1	8.7	7.2	8.08	N/A	N/A	35	9.6	11.8	11.3	2.92	B
Middle Mckenzie	Washburn	2706500	530	C-ST	stocked	9/22/2011	60	4.1	4.1	100	4	6.5	7.9	7.5-7.9	0.98	N/A	N/A	1	10.0	10.4	None	0.24	N
Slim	Washburn	2109300	224	C-ST	stocked	10/3/2011	62	2.6	2.6	100	30	6.9	9.4	8.0	11.54	2.70	1.58	0	-	-		0.00	B
Trego	Washburn	2712000	451	C-ST	stocked	9/20/2011	58	16.9	6.0	36	0	-	-	-	0.00	N/A	N/A	7	7.8	10.7	None	1.17	B

Appendix H. Walleye Exploitation Rates.

H-1. Information on fin clipped fish in population (prior to creel) and those observed in angler creels used to estimate angler harvest and exploitation rates during the 2011-2012 fishing season.

							Clips Given Prior to Creel				Clips Observed in Creel					
Year	WBIC	County	Lake	Acres	Recruit. Code	Size Limit	Clip Given	# Clips Given	#Clips ≥14"	#Clips ≥20"	# Clips Observed	# Clips Projected	# Clips Obs. ≥14"	# Clips Proj. ≥14"	# Clips Obs. ≥20"	# Clips Proj. ≥20"
2011	2046500	Sawyer	Windfall	102	NR	15	LV	929	288	3	37	111	30	90	0	0
2011	2949200	Iron	Pine	312	NR	1>14	RP	1,015	93	8	20	92	3	14	0	0
2011	2767100	Bayfield	Long	263	ST	15	LV	46	46	34	0	0	0	0	0	0
2011	2620600	Polk	Balsam	2054	C-ST	15	LP	644	630	258	18	364	18	364	5	101
2011	417400	Oconto	Archibald	393	C-ST	15	RV	259	237	49	7	19	7	19	0	0
2011	2340700	Vilas	Ballard	505	C-ST	15	RV	810	324	139	18	30	18	30	10	17
2011	1545600	Vilas	Big Arbor Vit	1090	NR	1>14	LV	2,305	1,469	88	63	272	41	177	2	9
2011	1591100	Vilas	Big Saint Ge	1617	C-ST	15	RV	1,442	1,262	460	12	155	12	155	7	90
2011	1630100	Vilas	Black Oak	584	C-ST	15	LV	318	298	95	7	30	7	30	5	21
2011	2340900	Vilas	Irving	403	O-ST	15	LP	5	5	0	0		0		0	
2011	1595600	Oneida	Muskellunge	284	NR	1>14	LV	235	196	49	3	11	3	11	2	7
2011	1579900	Oneida	Pelican	3585	NR	15	LV	1,490	1,264	143	17	259	17	259	1	15
2011	1588200	Oneida	Two Sisters	719	C-NR	1>14	LP	346	302	123	4	28	4	28	1	7
2011	2340500	Vilas	White Birch	117	C-NR	15	LV	121	68	29	2	6	2	6	0	0

H-2. Estimated angler and tribal harvest and associated walleye exploitation rates for lakes surveyed during the 2011-2012 fishing season.

County	Lake	Acres	Adult PE	Angler Harvest	Tribal Harvest	Total Harvest	Angler Exploitation	Angler Exploitation ≥14"	Angler Exploitation ≥20"	Tribal Exploitation	Total Exploitation
Sawyer	Windfall	102	1402	301	36	337	0.1195	0.3125	0.0000	0.0257	0.1452
Iron	Pine	312	2490	1000	0	1000	0.0906	0.1484	0.0000	0.0000	0.0906
Bayfield	Long	263	115	12	0	12	0.0000	0.0000	0.0000	0.0000	0.0000
Polk	Balsam	2054	1528	613	134	747	0.5652	0.5778	0.3919	0.0877	0.6529
Oconto	Archibald	393	459	60	0	60	0.0734	0.0802	0.0000	0.0000	0.0734
Vilas	Ballard	505	2004	151	0	151	0.0370	0.0926	0.1199	0.0000	0.0370
Vilas	Big Arbor Vita	1090	8515	2117	226	2343	0.1180	0.1205	0.0981	0.0265	0.1445
Vilas	Big Saint Ger	1617	4843	1588	298	1886	0.1075	0.1228	0.1966	0.0615	0.1690
Vilas	Black Oak	584	507	138	23	161	0.0943	0.1007	0.2256	0.0454	0.1397
Vilas	Irving	403	403	26	0	26	0.0000	0.0000	0.0000	0.0000	0.0000
Oneida	Muskellunge	284	421	60	0	60	0.0468	0.0561	0.1497	0.0000	0.0468
Oneida	Pelican	3585	8632	3915	812	4727	0.1738	0.2049	0.1065	0.0941	0.2679
Oneida	Two Sisters	719	995	231	154	385	0.0809	0.0927	0.0569	0.1548	0.2357
Vilas	White Birch	117	165	13	0	13	0.0496	0.0882	0.0000	0.0000	0.0496

Appendix I. Safe harvest of walleye and musky calculated for individual lakes within the Wisconsin Ceded Territory during 2011.

County	Lake Name	WBIC Code	Area (acres)	Walleye Method	Walleye SH	Musky Method	Musky SH
Ashland	Augustine L	2410400	166			Other	7
Ashland	Bear L	2403200	204	Other	85	Other	8
Ashland	Beaver Dam L	2916700	118			Other	6
Ashland	Beaver L	2935400	25			Other	2
Ashland	Cub L	1842600	31			Other	2
Ashland	Day L	2430300	641			Other	16
Ashland	E Twin L	2429000	110			Other	5
Ashland	English L	2914800	244	Other	32	Other	9
Ashland	Eureka L	2935600	39			Other	3
Ashland	Gordon L	2406500	142	Other	60	Other	6
Ashland	L Galilee	2935500	213	Other	9	Other	8
Ashland	Meder L	2935300	135	Other	19		
Ashland	Mineral L	2916900	225	Other	93	Other	8
Ashland	Moquah L	2918200	50			Other	3
Ashland	Pelican L	2404800	46	Other	20	Other	3
Ashland	Potter L	2917200	29	Other	4		
Ashland	Spider L	2918600	103			Other	5
Ashland	Spillerberg L	2936200	75	Other	32	Other	4
Ashland	Tea L	2922700	50	Other	22		
Ashland	Torrey L	2406700	29			Other	2
Ashland	Upper Clam L	2429600	166	Other	23	Other	7
Ashland	Zielke L	2406900	21	Other	9		
Barron	Bass L	1832800	118	Other	6		
Barron	Bear L	2105100	1358	Other	25		
Barron	Beaver Dam L	2081200	1112	Other	128		
Barron	Big Dummy L	1835100	111	Other	16		
Barron	Big Moon L	2079000	191	Other	26	Other	8
Barron	Butternut L	2105800	141	Other	7		
Barron	Duck L	2100300	100	1-2 Year PE	63		
Barron	Echo L	2630200	161	Other	8		
Barron	Granite L	2100800	154	Other	65		
Barron	Hemlock L	2109800	357	1-2 Year PE	30		
Barron	Horseshoe L	2469800	115	Other	16		
Barron	Horseshoe L	2630100	377	Other	13		
Barron	L Chetek	2094000	770	Other	92		
Barron	L Montanis	2103200	200	1-2 Year PE	40		
Barron	Little Sand L	2661600	101			Other	5
Barron	Loon L	2478600	94	Other	13		
Barron	Lower Devils L	1864000	162	Other	68		
Barron	Lower Turtle L	2079700	276	Other	36		
Barron	Lower Vermillion L	2098200	208	Other	28		
Barron	Minnow L	1866600	26	Other	2		
Barron	Mud L	2094600	577	Other	71		
Barron	Pokegama L	2094300	506	Other	202		

County	Lake Name	WBIC Code	Area (acres)	Walleye Method	Walleye SH	Musky Method	Musky SH
Barron	Poskin L	2098000	150	1-2 Year PE	15		
Barron	Prairie L	2094100	1534	Other	172		
Barron	Red Cedar L	2109600	1841	1-2 Year PE	652		
Barron	Rice L	2103900	939			Other	19
Barron	Sand L	2661100	322	Other	41	1-2 Year PE	11
Barron	Scott L	2630700	81	Other	5		
Barron	Silver L	1881100	337	1-2 Year PE	68		
Barron	Spring L	1882800	60	Other	26		
Barron	Staples L	2631200	305	Other	39		
Barron	Tenmile L	2089500	376	Other	13		
Barron	Upper Devils L	2043500	86	Other	5		
Barron	Upper Turtle L	2079800	438	Other	176		
Bayfield	Armstrong L	2754600	48	Other	21		
Bayfield	Atkins L	2734000	176	Other	73		
Bayfield	Bellevue L	2755800	65	Other	4		
Bayfield	Bladder L	2756200	81	Other	35		
Bayfield	Bony L	2742500	191	1-2 Year PE	54	Other	8
Bayfield	Buffalo L	1837700	179	Other	8	Other	7
Bayfield	Buskey Bay	2903800	100	1-2 Year PE	29	Other	5
Bayfield	Camp One L	2965700	37	Other	16		
Bayfield	Chippewa L	2431300	274			Other	9
Bayfield	Cisco L	2899200	95	1-2 Year PE	12		
Bayfield	Cranberry L	2732800	58	Other	4		
Bayfield	Crystal L	2874700	94	Other	6		
Bayfield	Crystal L	2897300	111	1-2 Year PE	32		
Bayfield	Deep L	2760100	125	Other	7		
Bayfield	Diamond L	2897100	341	Other	44		
Bayfield	Drummond L	2899400	99	Other	14		
Bayfield	Eagle L	2902900	170	1-2 Year PE	8	Other	7
Bayfield	Everett L	2761600	34	Other	3		
Bayfield	Finger L	2965500	76	Other	5		
Bayfield	Flynn L	2902800	29	1-2 Year PE	1	Other	2
Bayfield	Ghost L	2423900	142			Other	6
Bayfield	Hammil L	2467900	83	Other	12		
Bayfield	Hart L	2903200	259	1-2 Year PE	75	Other	9
Bayfield	Hildur L	2902600	67			Other	4
Bayfield	Iron L	2877000	248	Other	10		
Bayfield	Jackson L	2734200	142	Other	7		
Bayfield	Kelly L	2472000	56	Other	4		
Bayfield	Kern L	2900500	91	Other	39		
Bayfield	L Millicent	2903700	183	1-2 Year PE	53	Other	7
Bayfield	L Owen	2900200	1323	Other	150		
Bayfield	L Ruth	2765900	66	Other	4		
Bayfield	L Tahkodah	2473500	152	Other	8		
Bayfield	Little Siskiwit L	2882200	37	Other	16		

County	Lake Name	WBIC Code	Area (acres)	Walleye Method	Walleye SH	Musky Method	Musky SH
Bayfield	Long L	2767100	263	Other	34		
Bayfield	Marengo L	2921100	99	Other	42		
Bayfield	Mccarry L	2903400	32			Other	2
Bayfield	Middle Eau Claire L	2742100	902	1-2 Year PE	299	Other	19
Bayfield	Mill Pond L	2899700	62	Other	27		
Bayfield	Mullenhoff L	2876500	69	Other	5		
Bayfield	Muskellunge L	2903600	45	Other	3		
Bayfield	Namekagon L	2732600	3227	Other	1179	Other	40
Bayfield	Perch L	2770800	25	Other	11		
Bayfield	Pike L Chain	2902700	714	1-2 Year PE	#REF!		
Bayfield	Samoset L	2494800	46	Other	4		
Bayfield	Siskiwit L	2882300	330	1-2 Year PE	84		
Bayfield	Spider L	2774200	75	Other	5		
Bayfield	Spider L	2876200	124	Other	7		
Bayfield	Swett L	2743700	88	Other	38		
Bayfield	Trapper L	2734500	84	Other	36		
Bayfield	Twin Bear L	2903100	172	1-2 Year PE	50	Other	7
Bayfield	Upper Eau Claire L	2742700	996	Other	386	Other	20
Burnett	Big Mckenzie L	2706800	1185	Other	136	Other	22
Burnett	Big Sand L	2676800	1400	1-2 Year PE	4		
Burnett	Big Trade L	2638700	304			Other	10
Burnett	Clam R Fl	2654500	359	Other	146		
Burnett	Clear L	2457600	115	Other	6		
Burnett	Danbury Fl	2674500	256			Other	9
Burnett	Des Moines L	2674200	229	Other	10	Other	8
Burnett	Devils L	2461100	1001	Other	117		
Burnett	Dunham L	2651800	243	Other	32		
Burnett	Elbow L	2463100	233	Other	10		
Burnett	Fish L	2464500	356	Other	12		
Burnett	Lipsett L	2678100	393	1-2 Year PE	39		
Burnett	Little Mcgraw L	2477000	55	Other	8		
Burnett	Little Trade L	2639300	130			Other	6
Burnett	Little Yellow L	2674800	348	Other	141	Other	11
Burnett	Long L	2674100	251	Other	10		
Burnett	Poquettes L	2491100	97	Other	14		
Burnett	Rice L	2677900	311			Other	10
Burnett	Rooney L	2493100	322	Other	41		
Burnett	Round L	2640100	204	Other	27		
Burnett	Sand L	2495100	962	Other	21		
Burnett	Twenty-Six L	2672500	230			Other	8
Burnett	Viola L	2598600	285	Other	11		
Burnett	Yellow L	2675200	2287	Other	851	Other	33
Chippewa	Axhandle L	2092500	84	Other	5		
Chippewa	Chippewa Falls Fl	2152600	282	Other	115		
Chippewa	Cornell Fl	2181400	577	Other	229	Other	15

County	Lake Name	WBIC Code	Area (acres)	Walleye Method	Walleye SH	Musky Method	Musky SH
Chippewa	Cornell L	2171000	194	Other	9		
Chippewa	Holcombe Fl	2184900	3890	Other	1408	Other	44
Chippewa	L Wissota	2152800	6300	Other	2221	Other	58
Chippewa	Long L	2351400	1052	Other	407	Other	21
Chippewa	Old Abe L	2174700	1072	Other	414	Other	21
Chippewa	Otter L	2157000	661	Other	80		
Chippewa	Popple L	2173900	90	Other	13		
Chippewa	Round L	2169200	216	Other	29	Other	8
Clark	Mead L	2143900	320	Other	21	Other	5
Douglas	Amnicon L	2858100	426	Other	171	Other	12
Douglas	Bass L	2451700	126	Other	53		
Douglas	Bear L	2857700	49	Other	21	Other	3
Douglas	Beauregard L	2452400	93	Other	40		
Douglas	Bond L	2693700	293	Other	120		
Douglas	Clear L	2457700	36	Other	16		
Douglas	Dowling L	2858300	154	Other	65	Other	7
Douglas	Hoodoo L	2763900	32	Other	3		
Douglas	L Minnesuing	2866200	432	Other	174		
Douglas	L Nebagamon	2865000	914	Other	356		
Douglas	Leader L	2693800	165	Other	69		
Douglas	Lower Eau Claire L	2741600	802	Other	314	Other	18
Douglas	Lund L	2480300	75	Other	5		
Douglas	Lyman L	2856400	403	Other	13	Other	12
Douglas	Person L	2488600	172	Other	8		
Douglas	Red L	2492100	258	Other	10		
Douglas	Round L	2493900	34	Other	3		
Douglas	Upper St Croix L	2747300	855	1-2 Year PE	297		
Douglas	Whitefish L	2694000	832	1-2 Year PE	302		
Douglas	Wilson L	2600800	27	Other	2		
Dunn	Tainter L	2068000	1752	Other	661		
Eau Claire	Altoona L	2128100	840	Other	164	Other	9
Eau Claire	Dells Pond	2149900	739	Other	290	Other	17
Eau Claire	Halfmoon L	2125400	132	Other	18		
Eau Claire	L Eau Claire	2133200	860	Other	168	Other	9
Florence	Emily L	651600	191	Other	26		
Florence	Fay L	677100	282	Other	37		
Florence	Fisher L	704200	54	Other	4		
Florence	Halsey L	679300	512	Other	15		
Florence	Keyes L	672900	210	Other	28		
Florence	Patten L	653700	255	Other	105		
Florence	Pine R Fl	651300	127	Other	54		
Florence	Sea Lion L	672300	125	Other	7		
Forest	Arbutus L	181400	161	Other	22		
Forest	Birch L	555500	468	Other	188		

County	Lake Name	WBIC Code	Area (acres)	Walleye Method	Walleye SH	Musky Method	Musky SH
Forest	Butternut L	692400	1292	1-2 Year PE	998		
Forest	Crane L	388500	337	Other	43		
Forest	Franklin L	692900	892	1-2 Year PE	67		
Forest	Ground Hemlock L	395900	88	Other	13		
Forest	Howell L	691800	177	Other	74		
Forest	Jungle L	377900	182	1-2 Year PE	166		
Forest	King L	501700	33	Other	15		
Forest	L Lucerne	396500	1026	Other	119		
Forest	L Metonga	394400	1991	1-2 Year PE	573		
Forest	Lily L	376900	211	1-2 Year PE	254	Other	8
Forest	Little Long L	190500	102	Other	6		
Forest	Mole L	390600	73	Other	5		
Forest	Pine L	406900	1670	Other	185		
Forest	Quartz L	591000	47			Other	3
Forest	Range Line L	478200	82	Other	12		
Forest	Riley L	557100	213			Other	8
Forest	Roberts L	378400	414	1-2 Year PE	263	Other	12
Forest	Silver L	555700	320	Other	12	Other	10
Forest	Stevens L	683000	297	Other	39		
Forest	Trump L	479300	172	Other	23		
Forest	Wabikon L	556900	594			Other	15
Forest	Windfall L	373500	55			Other	3
Iron	Bearskull L	2265100	75	Other	11		
Iron	Big Pine L	2270700	632	Other	250	Other	15
Iron	Boot L	2297800	180	Other	8	Other	7
Iron	Catherine L	2309100	118	Other	16		
Iron	Cedar L	2309700	193	Other	26	Other	8
Iron	Charnley L	1840400	71	Other	5		
Iron	Clear L	2303700	67	Other	4	Other	4
Iron	Echo L	2301800	220	Other	91	Other	8
Iron	Fisher L	2307300	452	Other	57	Other	13
Iron	French L	1849600	92	Other	6	Other	5
Iron	Gile Fl	2942300	3384	Other	1234	Other	41
Iron	Grand Portage L	2314100	144	Other	20	Other	6
Iron	Grant L	2312500	107	Other	6	Other	5
Iron	Hewitt L	2763300	78			Other	4
Iron	Island L	2945500	352	Other	45	Other	11
Iron	L Of The Falls	2298300	338	Other	137	Other	11
Iron	L Tahoe	2314000	37	Other	3	Other	3
Iron	Little Martha L	2314700	35	Other	3	Other	3
Iron	Long L	2303500	396	1-2 Year PE	85	Other	12
Iron	Lower Springstead L	2267000	95	Other	41	Other	5
Iron	Martha L	2314300	146	Other	61		
Iron	Mcdermott L	2296500	84	Other	5		
Iron	Mercer L	2313600	184	Other	25	Other	7

County	Lake Name	WBIC Code	Area (acres)	Walleye Method	Walleye SH	Musky Method	Musky SH
Iron	Moose L	2299300	269			Other	9
Iron	Mud L	2316400	56	Other	24		
Iron	Muskie L	2266800	81	Other	35	Other	4
Iron	N Bass L	1868900	180	Other	8	Other	7
Iron	Owl L	2307600	129	Other	18	Other	6
Iron	Oxbow L	2302300	80	Other	34	Other	4
Iron	Pardee L	2308000	206	Other	85	Other	8
Iron	Pike L	2299900	165	Other	69	Other	7
Iron	Pine L	2949200	312	Other	127	Other	10
Iron	Plunkett L	2325200	48	Other	4		
Iron	Randall L	2318500	115	Other	49	Other	6
Iron	Rice L	2300600	125	Other	53	Other	6
Iron	Sandy Beach L	2316100	111	Other	47		
Iron	Saxon Falls Fl	2941100	41	Other	18	Other	3
Iron	Second Black L	2298600	60	Other	26		
Iron	Spider L	2306300	352	Other	143	Other	11
Iron	Stone L	2267200	82	Other	5	Other	4
Iron	Third Black L	2298800	68	Other	29		
Iron	Trude L	2295200	781	1-2 Year PE	512	Other	17
Iron	Turtle-Flambeau Fl	2294900	13545	1-2 Year PE	6261	Other	89
Iron	Upper Springstead L	2267100	126	Other	53	Other	6
Iron	Virgin L	2304500	119			Other	6
Iron	Wilson L	2297000	162			Other	7
Langlade	Big Twin L	182200	60	Other	4		
Langlade	Deep Wood L	1445100	72			Other	4
Langlade	Duck L	981500	123	Other	7		
Langlade	Enterprise L	1579700	505	Other	202	Other	14
Langlade	Goto L	348700	28	Other	3		
Langlade	Greater Bass L	1445500	258			1-2 Year PE	4
Langlade	Jessie L	188700	35	Other	3		
Langlade	Lawrence L	997300	50	Other	7		
Langlade	Moccasin L	1005600	110	Other	15	Other	5
Langlade	Mueller L	194000	88	Other	13		
Langlade	Otter L	387200	83	1-2 Year PE	40		
Langlade	Pickerel L	388100	1256	Other	24		
Langlade	Rolling Stone L	389300	672	Other	81		
Langlade	Rose L	494200	112	Other	16		
Langlade	Sawyer L	198100	149	1-2 Year PE	55		
Langlade	Summit L	1445600	282	Other	11	1-2 Year PE	17
Langlade	Upper Post L	399200	757	Other	90		
Langlade	Water Power L	1445400	22			Other	2
Langlade	White L	365500	166	Other	8		
Lincoln	Alexander L	1494600	677	Other	18	Other	16
Lincoln	Bass L	969600	100	Other	14		
Lincoln	Crystal L	979100	109	Other	6		

County	Lake Name	WBIC Code	Area (acres)	Walleye Method	Walleye SH	Musky Method	Musky SH
Lincoln	Deer L	1519600	152	Other	64	Other	7
Lincoln	Grandfather Fl	1502400	223	Other	9		
Lincoln	Grandmother Fl	1503000	119	Other	6		
Lincoln	Jersey City Fl	1516000	404	Other	163	Other	12
Lincoln	L Alice	1555900	1369	Other	522	Other	24
Lincoln	L Mohawksin	1515400	1910	1-2 Year PE	1047	1-2 Year PE	36
Lincoln	L Nokomis	1516500	2433	Other	902	Other	34
Lincoln	Long L	1001000	132	Other	18		
Lincoln	Merrill Fl	1481100	164	Other	69		
Lincoln	Muskellunge L	1555500	167	Other	8		
Lincoln	Pesabic L	1481600	146	Other	20		
Lincoln	Pine L	1012100	134	Other	18	Other	6
Lincoln	Rice R Fl	1516400	920	Other	358	Other	19
Lincoln	Rice R Fl Chain	1516401	3764	Other	#REF!		
Lincoln	Seven Island L	1490300	132	Other	18	Other	6
Lincoln	Silver L	1017400	82	Other	35		
Lincoln	Somo L	1547700	472	Other	59	Other	13
Lincoln	Spirit R Fl	1506800	1663	Other	629	Other	27
Lincoln	Squaw L	1564400	79	Other	11	Other	4
Lincoln	Thompson L	1022200	30			Other	2
Lincoln	Tug L	1482400	151	Other	63	Other	7
Marathon	Big Eau Pleine Reser	1427400	6830	Other	1918	Other	49
Marathon	L Wausau	1437500	1918	Other	72	Other	3
Marathon	Mayflower L	310500	98	Other	14		
Marathon	Mission L	1005400	107			Other	5
Marathon	Norrie L	310100	99	Other	6		
Marathon	Pike L	1406300	205	Other	27		
Marathon	Wausau Dam L	1469700	284	Other	9		
Marinette	Big Newton L	498800	68	Other	29		
Marinette	Caldron Falls Reserv	545400	1018	Other	22	Other	20
Marinette	Eagle L	500200	56	Other	4		
Marinette	High Falls Reservoir	540600	1498	Other	569		
Marinette	Hilbert L	501200	247	Other	33		
Marinette	Johnson Falls Fl	533300	68	Other	29		
Marinette	Little Newton L	502300	60	Other	26		
Marinette	Oneonta L	503300	66	Other	4		
Marinette	Sandstone Fl	531300	153	Other	32		
Marinette	Thunder L	533600	127	Other	7		
Oconto	Archibald L	417400	393	Other	50	Other	12
Oconto	Bass L	417900	142	Other	60		
Oconto	Bear L	471200	78	Other	5		
Oconto	Boot L	418700	235	Other	97	Other	9
Oconto	Boulder L	491800	362	Other	12		
Oconto	Boundary L	499000	37	Other	3		
Oconto	Crooked L	462000	143	Other	7		

County	Lake Name	WBIC Code	Area (acres)	Walleye Method	Walleye SH	Musky Method	Musky SH
Oconto	Horn L	467100	132	Other	7		
Oconto	John L	470600	104	1-2 Year PE	6		
Oconto	Maiden L	487500	290	Other	38		
Oconto	Munger L	470900	97	Other	6	Other	5
Oconto	Paya L	425600	121	Other	7		
Oconto	Reservoir Pond	466700	418	Other	14		
Oconto	Townsend Fl	465000	476	Other	15		
Oconto	Waubee L	439500	124	Other	7		
Oconto	Wheeler L	439800	293	Other	120		
Oneida	Aldridge L	967400	134	Other	56		
Oneida	Alva L	968100	201	Other	83		
Oneida	Baker L	1546000	42	Other	18		
Oneida	Bass L	1580300	124	Other	52	Other	6
Oneida	Bear L	1527800	312	Other	40		
Oneida	Bearskin L	1523600	400	1-2 Year PE	580	Other	12
Oneida	Big Carr L	971600	213	Other	28	Other	8
Oneida	Big Fork L	1610700	690	Other	272	Other	16
Oneida	Big L	1613000	865	Other	337	Other	19
Oneida	Big Stone L	1612200	548	Other	218	Other	14
Oneida	Birch L	1523800	180	Other	75		
Oneida	Bird L	972000	99	Other	42		
Oneida	Blue L	1538600	456	Other	183		
Oneida	Bolger L	973000	119	Other	17		
Oneida	Boom L	1580200	437	Other	14	Other	12
Oneida	Booth L	1537800	207	Other	28	Other	8
Oneida	Bridge L	1516800	411	Other	166	Other	12
Oneida	Brown L	973700	98	Other	6		
Oneida	Buckskin L	2272600	634	Other	54	Other	11
Oneida	Buffalo L	974200	104	Other	44		
Oneida	Burrows L	975000	156	Other	8	Other	7
Oneida	Carrol L	1544800	352	Other	45	Other	11
Oneida	Chain L	1598000	219	Other	91	Other	8
Oneida	Clear L	977100	36	Other	3		
Oneida	Clear L	977200	30	Other	13	Other	2
Oneida	Clear L	977400	62	Other	27	Other	4
Oneida	Clear L	977500	846	Other	330	Other	18
Oneida	Clear L	2272555	212	Other	86	Other	8
Oneida	Clearwater L	1616400	351	Other	142	Other	11
Oneida	Columbus L	1616900	670	Other	264		
Oneida	Crescent L	1564200	612	1-2 Year PE	506	Other	15
Oneida	Crooked L	1613300	176	Other	8		
Oneida	Cunard L	1590000	43	Other	19		
Oneida	Currie L	979300	96	Other	41		
Oneida	Dam L	1596900	744	Other	292	Other	17
Oneida	Deer L	1612300	177	Other	74	Other	7

County	Lake Name	WBIC Code	Area (acres)	Walleye Method	Walleye SH	Musky Method	Musky SH
Oneida	Diamond L	1537100	124	Other	52	Other	6
Oneida	Dog L	1590200	37	Other	3		
Oneida	Dog L	1612900	216	Other	89	Other	8
Oneida	E Horsehead L	1523000	184	Other	77	Other	7
Oneida	E Twin L	982400	47	Other	4		
Oneida	Echo L	1597800	107	Other	45	Other	5
Oneida	Emma L	983500	223	Other	30		
Oneida	Fifth L	1571100	240	Other	99	Other	9
Oneida	Fish L	1570600	70	Other	30	Other	4
Oneida	Fourmile L	1610800	218	Other	90	Other	8
Oneida	Fourth L	1572000	258	Other	106	Other	9
Oneida	Franklin L	986000	161	Other	22	Other	7
Oneida	Fuller L	2272000	101	Other	6		
Oneida	Garth L	986600	114	Other	48		
Oneida	George L	1569600	435	1-2 Year PE	305	Other	12
Oneida	Gilmore L	1589300	320	1-2 Year PE	58	1-2 Year PE	23
Oneida	Hancock L	1517900	259	Other	10	Other	9
Oneida	Hasbrook L	1589100	302	1-2 Year PE	247	Other	10
Oneida	Hat Rapids Fl	1567325	650	Other	257		
Oneida	Hemlock L	989200	39	Other	17		
Oneida	Hill L	990200	30	Other	3		
Oneida	Hixon L	1568900	50	Other	4		
Oneida	Hodstradt L	990700	126	Other	17		
Oneida	Indian L	1598900	397	Other	160		
Oneida	Island L	1610500	295	Other	121	Other	10
Oneida	Jennie Webber L	1574300	226	Other	30		
Oneida	Julia L (Three Lakes	1614300	401	Other	51	Other	12
Oneida	Kate Pier L	1586300	34	Other	15		
Oneida	Kathan L	1598300	189	Other	79		
Oneida	Katherine L	1543300	590	Other	234	Other	15
Oneida	Kawaguesaga L	1542300	670	1-2 Year PE	263	Other	16
Oneida	Killarney L	1520900	421	Other	14		
Oneida	L Creek	1580500	172	Other	72	Other	7
Oneida	L Julia (Rhinelander	995000	238	Other	31	Other	9
Oneida	L Seventeen	996100	172	Other	23		
Oneida	L Thompson	1569900	382	Other	48	Other	11
Oneida	Laurel L	1611800	232	Other	96	Other	8
Oneida	Little Bearskin L	1523500	164	Other	22		
Oneida	Little Carr L	998800	52	Other	4		
Oneida	Little Fork L	1610600	354	Other	144	Other	11
Oneida	Little Tomahawk L	1543900	160	1-2 Year PE	23	Other	7
Oneida	Lone Stone L	1605600	172	Other	8	Other	7
Oneida	Long L	1001300	113	Other	48	Other	5
Oneida	Long L	1609000	620	Other	245	Other	15
Oneida	Long L	1618300	56	Other	24	Other	4

County	Lake Name	WBIC Code	Area (acres)	Walleye Method	Walleye SH	Musky Method	Musky SH
Oneida	Lost L	1575100	155	Other	65		
Oneida	Lower Kaubashine L	1534800	187	Other	25	Other	7
Oneida	Lumen L	1002800	49	Other	21		
Oneida	Madeline L	1544700	159			Other	7
Oneida	Manson L	1517200	236	Other	97	Other	9
Oneida	Maple L	1609900	144	Other	7		
Oneida	Margaret L	1615900	88	Other	38		
Oneida	Mars L	1577100	41	Other	18		
Oneida	Mccormick L	1526600	118	Other	6		
Oneida	Medicine L	1611700	372	Other	151	Other	11
Oneida	Mercer L	1538900	257	Other	106	Other	9
Oneida	Mid L	1542600	215	Other	9	Other	8
Oneida	Mildred L	1004600	191	Other	9		
Oneida	Minocqua L	1542400	1360	1-2 Year PE	319	Other	24
Oneida	Moccasin L	1612100	95	Other	41	Other	5
Oneida	Moen L	1573800	460	Other	185	Other	13
Oneida	Mud L	1544000	41	Other	18		
Oneida	Mud L	1612500	124	Other	7	Other	6
Oneida	Muskellunge L	1595600	284	1-2 Year PE	43	Other	10
Oneida	Muskie L	1524300	43	Other	3		
Oneida	N Nokomis L	1595800	476	Other	59	Other	13
Oneida	N Two L	1007500	146	Other	61		
Oneida	Nose L	1008200	40	Other	3		
Oneida	Oatmeal L	1597300	97	Other	6		
Oneida	Oneida L	1518200	255	Other	105	Other	9
Oneida	Paradise L	1009400	89	Other	13		
Oneida	Pelican L	1579900	3585	Other	1303	Other	42
Oneida	Pickerel L	1583000	49	Other	4		
Oneida	Pickerel L	1590400	736	Other	18	Other	17
Oneida	Pier L	1529700	257	Other	34		
Oneida	Pine L	1012200	203	Other	84		
Oneida	Pine L	1581700	240	Other	99	Other	9
Oneida	Planting Ground L	1609100	1012	Other	392	Other	20
Oneida	Prairie L	1013000	58	Other	25		
Oneida	Rainbow Fl	1595300	2035	Other	762	Other	31
Oneida	Range Line L	1610300	123	Other	52	Other	6
Oneida	Rhinelander Fl	1580100	1326	Other	507	Other	24
Oneida	Rocky Run Fl	1525500	96	Other	41		
Oneida	Round L	1610400	150	Other	63	Other	6
Oneida	S Blue L	1015100	80	Other	5		
Oneida	S Pine L	1580700	77	Other	33		
Oneida	S Two L	1015500	214	Other	89		
Oneida	Sand L	1597000	540	Other	215	Other	14
Oneida	Second L	1572300	111	Other	47	Other	5
Oneida	Sevenmile L	1605800	503	Other	62	Other	13

County	Lake Name	WBIC Code	Area (acres)	Walleye Method	Walleye SH	Musky Method	Musky SH
Oneida	Shepard L	1576100	179	Other	8	Other	7
Oneida	Shishebogama L	1539600	716	Other	43	Other	8
Oneida	Skunk L	1533200	130	Other	55		
Oneida	Soo L	1018900	135	Other	57	Other	6
Oneida	Spider L	1586600	118	Other	50	Other	6
Oneida	Spirit L	1612000	368	Other	149	Other	11
Oneida	Squash L	1019500	396	1-2 Year PE	93		
Oneida	Squirrel L	1536300	1317	1-2 Year PE	726	Other	24
Oneida	Stella L	1575700	405	Other	13	Other	12
Oneida	Stone L	1597600	188			Other	7
Oneida	Stone L	2272700	248	Other	102		
Oneida	Sunday L	1020600	88	Other	5		
Oneida	Sunset L	1572500	33	Other	15	Other	3
Oneida	Swamp L	1522400	296	Other	11		
Oneida	Swamsauger L	1528700	141	1-2 Year PE	154		
Oneida	Sweeney L	1589600	187	Other	78	Other	7
Oneida	Tamarack L	1582200	99	Other	42		
Oneida	Third L	1572200	103	Other	44	Other	5
Oneida	Thunder L	1580400	172	Other	72	Other	7
Oneida	Thunder L	1618100	1768	Other	195		
Oneida	Tim Lynn L	1597400	84	Other	36		
Oneida	Tom Doyle L	1586800	102	Other	14	Other	5
Oneida	Tomahawk L	1542700	3392	1-2 Year PE	477	1-2 Year PE	20
Oneida	Tomahawk L Chain	1542701	3552	1-2 Year PE	#REF!		
Oneida	Townline L	1609600	152	Other	64	Other	7
Oneida	Turtle L	1587400	53	Other	4		
Oneida	Two Sisters L	1588200	719	Other	283	Other	17
Oneida	Upper Kaubashine L	1535000	190	Other	79	Other	7
Oneida	Venus L	1577000	65	Other	28		
Oneida	Virgin L	1614100	276	Other	113	Other	9
Oneida	W Horsehead L	1522900	145	Other	7	Other	6
Oneida	W Twin L	1177400	28	Other	3		
Oneida	Walters L	1582800	61	Other	26		
Oneida	Whitefish L	1613500	205	Other	9	Other	8
Oneida	Wildwood L	1178600	28	Other	4		
Oneida	Willow Fl	1528300	5135	Other	1831	Other	52
Oneida	Willow L	1529500	395	Other	13	Other	12
Polk	Antler L	2449400	101	Other	6		
Polk	Apple R Fl	2624200	639			Other	16
Polk	Balsam L	2620600	2054	Other	223		
Polk	Bear L	2452200	155	Other	65		
Polk	Bear Trap L	2618100	241	Other	10		
Polk	Big Butternut L	2641000	378	Other	48		
Polk	Big L	2615900	259	Other	10		
Polk	Big Round L	2627400	1015	Other	118		

County	Lake Name	WBIC Code	Area (acres)	Walleye Method	Walleye SH	Musky Method	Musky SH
Polk	Bone L	2628100	1781			Other	28
Polk	Church Pine L	2616100	107	Other	6		
Polk	Clear L	2623500	30	Other	3		
Polk	Deer L	2619400	807			1-2 Year PE	49
Polk	Half Moon L	2621100	579	Other	71		
Polk	Indianhead Fl	2634400	776	Other	304		
Polk	Little Butternut L	2640700	189	Other	25		
Polk	Magnor L	2624600	231	Other	31		
Polk	N Pipe L	2485700	58	Other	25		
Polk	N Twin L	2623900	135	Other	7		
Polk	Pike L	2624000	159	Other	8		
Polk	Pipe L	2490500	284	Other	37		
Polk	Poplar L	2491000	125	Other	7		
Polk	Sand L	2495000	187	Other	25		
Polk	Wapogasset L	2618000	1186	Other	136		
Polk	Ward L	2599400	91	Other	13		
Polk	Wind L	2616000	38	Other	3		
Portage	Tree L	289400	74	Other	5		
Price	Amik L	2268600	224			Other	8
Price	Bass L	2279800	84	Other	5		
Price	Bass L	2282200	58	Other	25	Other	4
Price	Big Dardis L	2244200	144	Other	20	Other	6
Price	Butternut L	2283300	1006	1-2 Year PE	703	Other	20
Price	Crane + Chase L	2237500	86	Other	37	Other	5
Price	Crowley Fl	2287200	422	Other	14	Other	12
Price	Deer L	2239100	145			Other	6
Price	Duroy L	2240100	379	Other	153	Other	11
Price	Elk L	2240000	88	Other	38	Other	5
Price	Grassy L	2238100	81	Other	35	Other	4
Price	Island L	2260900	29	Other	3		
Price	Lac Sault Dore	2236800	561	Other	223	Other	14
Price	Long L	2239300	418	Other	168	Other	12
Price	Long L	2282000	241	Other	99	Other	9
Price	Lower Park Falls Fl	2290100	71	Other	31	Other	4
Price	Miles L	2271100	32			Other	2
Price	Musser L	2245100	563	Other	69	Other	14
Price	N Spirit L	1515200	213	Other	28	Other	8
Price	Patterson L	1872500	70	Other	5		
Price	Pike L	2268300	806	Other	315	Other	18
Price	Pixley Fl	2288900	334	Other	136	Other	11
Price	Round L	2267800	726	Other	285	Other	17
Price	Schnur L	2284000	158	Other	66	Other	7
Price	Solberg L	2242500	859	Other	335	Other	18
Price	Spirit L	1513000	126	Other	7	Other	6
Price	Thompson L	2265900	111	Other	6	Other	5

County	Lake Name	WBIC Code	Area (acres)	Walleye Method	Walleye SH	Musky Method	Musky SH
Price	Turner L	2268500	149	Other	63	Other	6
Price	Upper Park Falls Fl	2290500	431			Other	12
Price	Upper Price L	2235300	43			Other	3
Price	Whitcomb L	2266100	44	Other	7	Other	3
Price	Wilson L	2239400	351	Other	142	Other	11
Price	Worcester L	2210900	100	Other	43		
Rusk	Amacoy L	2359700	278	Other	36	Other	9
Rusk	Audie L	2368700	128			Other	6
Rusk	Bass L	2090900	88	Other	5		
Rusk	Big Falls Fl	2230100	369	Other	149	Other	11
Rusk	Chain L	2350500	468	Other	58	Other	13
Rusk	Clear L	2350600	95	Other	13	Other	5
Rusk	Dairyland Reservoir	2229200	1745	Other	658	Other	28
Rusk	Fireside Lakes	2349500	302	Other	123		
Rusk	Island L	2350200	526	Other	65	Other	14
Rusk	Ladysmith Fl	2228700	288	Other	118	Other	10
Rusk	Mccann L	2350400	133	Other	18	Other	6
Rusk	Perch L	2368500	23			Other	2
Rusk	Potato L	2355300	534	Other	66	Other	14
Rusk	Pulaski L	1875900	126	Other	53		
Rusk	Sand L	2353600	262	Other	108	Other	9
Rusk	Thornapple Fl	2227500	268	Other	110	Other	9
Sawyer	Barber L	2382300	238	1-2 Year PE	18	Other	9
Sawyer	Barker L	2400000	238	Other	98	Other	9
Sawyer	Beverly L	2387200	9			Other	1
Sawyer	Black Dan L	2381900	128	Other	7	Other	6
Sawyer	Black L	2401300	129	Other	7	Other	6
Sawyer	Blaisdell L	2402200	356	Other	12	Other	11
Sawyer	Boos L	2425000	37	Other	16	Other	3
Sawyer	Burns L	2436400	37	Other	3	Other	3
Sawyer	Callahan L	2434700	106			Other	5
Sawyer	Clear L	1841300	77			Other	4
Sawyer	Connors L	2275100	429	1-2 Year PE	185	Other	12
Sawyer	Durphee L	2396800	193	Other	80		
Sawyer	Evergreen L	2277600	200	Other	83	Other	8
Sawyer	Fawn L	2435900	23	Other	2		
Sawyer	Fishtrap L	2401100	216			Other	8
Sawyer	Ghost L	2423000	372	Other	47	Other	11
Sawyer	Grimh Fl	2385100	86			Other	5
Sawyer	Grindstone L	2391200	3111	1-2 Year PE	333	1-2 Year PE	7
Sawyer	Ham L	1852300	100	Other	43		
Sawyer	Hayward L	2725500	247	Other	33	Other	9
Sawyer	Holmes L	2419600	62			Other	4
Sawyer	Hunter L	2400600	126	Other	53	Other	6
Sawyer	Island L	2381800	67	Other	4	Other	4

County	Lake Name	WBIC Code	Area (acres)	Walleye Method	Walleye SH	Musky Method	Musky SH
Sawyer	L Chetac	2113300	1920	1-2 Year PE	407		
Sawyer	L Chippewa	2399700	15300	Other	3409	Other	63
Sawyer	L Of The Pines	2275300	273	Other	112	1-2 Year PE	34
Sawyer	L Placid	2436500	160	Other	8	Other	7
Sawyer	L Winter	2381100	676	Other	18	Other	16
Sawyer	Lac Courte Oreilles	2390800	5039	1-2 Year PE	526	Other	34
Sawyer	Lewis L	1860200	52	Other	4		
Sawyer	Little Round L	2395500	229	1-2 Year PE	8		
Sawyer	Little Sissabagama L	2394100	299			Other	10
Sawyer	Loretta L	2382700	126			Other	6
Sawyer	Lost Land L	2418600	1304	Other	499	Other	24
Sawyer	Lovejoy L	2395900	76	Other	33		
Sawyer	Lower Clam L	2429300	229	Other	30	Other	8
Sawyer	Mason L	2277200	190	Other	79	Other	7
Sawyer	Meadow L	2424800	39	Other	17	Other	3
Sawyer	Mirror L	1866900	38	Other	3		
Sawyer	Moose L	2420600	1670	Other	631	Other	27
Sawyer	Mud L	2434800	480	Other	15	Other	13
Sawyer	Nelson L	2704200	2503	Other	267		
Sawyer	North L	2436000	129	Other	7	Other	6
Sawyer	Partridge Crop L	2424600	45	Other	20	Other	3
Sawyer	Perch L	1873600	129	Other	7	Other	6
Sawyer	Radisson Fl	2397400	255	Other	105	Other	9
Sawyer	Round L	2395600	3054	1-2 Year PE	365	Other	39
Sawyer	Sand L	2393200	928	Other	109	Other	19
Sawyer	Sissabagama L	2393500	719	1-2 Year PE	251	Other	17
Sawyer	Smith L	2726100	323	Other	12		
Sawyer	Spider L	2435700	1454	Other	163	Other	25
Sawyer	Spring L	2724900	220	Other	8		
Sawyer	Squaw L	2395100	208	Other	14		
Sawyer	Teal L	2417000	1049	1-2 Year PE	513	Other	21
Sawyer	Teal R Fl	2416900	75	Other	32	Other	4
Sawyer	Tiger Cat Fl	2435000	819	Other	97	Other	18
Sawyer	Whitefish L	2392000	786	Other	94	Other	18
Sawyer	Windfall L	2046500	102	Other	43		
Sawyer	Windigo L	2046600	522	Other	208		
St. Croix	Cedar L	2615100	1100	1-2 Year PE	674	Other	21
Taylor	Anderson L	2165700	43	Other	3		
Taylor	Chelsea L	2200400	59	Other	4		
Taylor	Chequamegon Waters F	2160700	2714	Other	35		
Taylor	Diamond L	1757200	49	Other	21		
Taylor	Esadore L	1764000	46	Other	4		
Taylor	Hulls L	1762700	67	Other	4		
Taylor	Kathryn L	2166100	62	Other	9		
Taylor	Mondeaux Fl	2193300	416			Other	12

County	Lake Name	WBIC Code	Area (acres)	Walleye Method	Walleye SH	Musky Method	Musky SH
Taylor	N Harper L	2204000	54	Other	24	Other	3
Taylor	Rib L	1469100	320	Other	130	Other	10
Taylor	Richter L	1760000	45	Other	3		
Taylor	S Harper L	2204100	80	Other	11		
Taylor	Sackett L	1764500	63	Other	9		
Taylor	Shearer L	2197600	21	Other	2		
Taylor	Wellington L	1467800	43	Other	3		
Vilas	Alder L	2329600	274	Other	112	Other	9
Vilas	Allequash L	2332400	426	1-2 Year PE	73	Other	12
Vilas	Alma L	967900	55	Other	8	Other	3
Vilas	Annabelle L	2953800	213	1-2 Year PE	53	Other	8
Vilas	Anvil L	968800	398	Other	161		
Vilas	Apeekwa L	2269400	188	Other	78	Other	7
Vilas	Armour L	2953200	320	Other	130	Other	10
Vilas	Arrowhead L	1541500	99	Other	14	Other	5
Vilas	Averill L	2956700	71	Other	31	Other	4
Vilas	Ballard L	2340700	505	Other	63	Other	14
Vilas	Bass L	1604200	266	Other	10	Other	9
Vilas	Bear L	2335400	76	Other	11	Other	4
Vilas	Beaver L	2960600	68	Other	5		
Vilas	Belle L	2955700	53	Other	23	Other	3
Vilas	Benson L	2327100	28	Other	12	Other	2
Vilas	Big Arbor Vitae L	1545600	1090	Other	421	Other	21
Vilas	Big Crooked L	2338800	682	1-2 Year PE	135	Other	16
Vilas	Big Donahue L	971700	92	Other	6		
Vilas	Big Gibson L	1835200	116	Other	49	Other	6
Vilas	Big Hurst L	2756000	48	Other	4		
Vilas	Big Kitten L	2336700	55	Other	4	Other	3
Vilas	Big L (Boulder Jct)	2334700	835	Other	326	Other	18
Vilas	Big L (Mi Border)	2963800	771	Other	240	Other	14
Vilas	Big Muskellunge L	1835300	930	Other	361	Other	19
Vilas	Big Portage L	1629500	638	Other	252		
Vilas	Big Sand L	1602600	1408	Other	159	Other	25
Vilas	Big St Germain L	1591100	1617	1-2 Year PE	388	Other	27
Vilas	Bills L	1835500	37			Other	0
Vilas	Birch L	2311100	528	Other	211	Other	14
Vilas	Black Oak L	1630100	584	Other	71		
Vilas	Boot L	1619100	284	Other	37	Other	10
Vilas	Boot L	2756400	29	Other	3	Other	2
Vilas	Boulder L	2338300	524	Other	209	Other	14
Vilas	Brandy L	1541300	110	Other	15	Other	5
Vilas	Carpenter L	976100	333	Other	12		
Vilas	Catfish L	1603700	1012	Other	392	Other	20
Vilas	Circle Lily L	2326700	223	Other	9	Other	8
Vilas	Clear L	2329000	555	Other	221	Other	14

County	Lake Name	WBIC Code	Area (acres)	Walleye Method	Walleye SH	Musky Method	Musky SH
Vilas	Cleveland L	2758600	32	Other	3		
Vilas	Cochran L	2963500	126	Other	7	Other	6
Vilas	Crab L	2953500	949	Other	369	Other	20
Vilas	Crampton L	2759000	59	Other	4		
Vilas	Cranberry L	1603800	956	Other	371	Other	20
Vilas	Crystal L	1842400	88	Other	5		
Vilas	Dead Pike L	2316600	297	Other	39	Other	10
Vilas	Deer L	980600	65	Other	4		
Vilas	Deer L	2311500	37	Other	3		
Vilas	Deerskin L	1601300	309	Other	40	Other	10
Vilas	Diamond L	1844700	122	Other	7	Other	6
Vilas	Dorothy Dunn L	1845600	70	Other	5	Other	4
Vilas	Duck L	1599900	108	Other	46	Other	5
Vilas	E Ellerson L	2331300	136	Other	57	Other	6
Vilas	E Witches L	982500	34	Other	3		
Vilas	Eagle L	1600200	572	Other	227	Other	15
Vilas	Eleanore L	1631500	28	Other	12	Other	2
Vilas	Erickson L	983600	106	1-2 Year PE	31		
Vilas	Escanaba L	2339900	293	1-2 Year PE	370	Other	10
Vilas	Fawn L	1591000	22	Other	10	Other	2
Vilas	Fawn L	2328900	74	Other	32	Other	4
Vilas	Finger L	984700	90	Other	5		
Vilas	Fishtrap L	2343200	329	1-2 Year PE	84	Other	10
Vilas	Forest L	2762200	466	Other	187		
Vilas	Found L	1593800	326	Other	42	Other	10
Vilas	Frank L	985900	141	Other	7		
Vilas	Harmony L	988300	88	Other	5		
Vilas	Harris L	2958500	507	Other	203	Other	14
Vilas	Helen L	2964400	111	Other	47	Other	5
Vilas	Hiawatha L	2328400	36	Other	5		
Vilas	High L	2344000	734	1-2 Year PE	133	1-2 Year PE	37
Vilas	Horsehead L	2953100	234	1-2 Year PE	275	Other	8
Vilas	Hunter L	991700	184	Other	25		
Vilas	Imogene L	586800	66	Other	4		
Vilas	Indian L	2764400	68			Other	4
Vilas	Irving L	2340900	403	Other	13	Other	12
Vilas	Island L	2334400	1023	Other	396	Other	20
Vilas	Jag L	1855900	158	Other	66	Other	7
Vilas	Jenny L	1856400	59	Other	26		
Vilas	Johnson L	1541100	78	Other	11	Other	4
Vilas	Jute L	1857400	194			Other	8
Vilas	Katinka L	2957000	172	Other	72		
Vilas	Kentuck L	716800	957	1-2 Year PE	470	Other	20
Vilas	Kenu L	1629800	73	Other	5		
Vilas	Kildare L	1631700	54	Other	4	Other	3

County	Lake Name	WBIC Code	Area (acres)	Walleye Method	Walleye SH	Musky Method	Musky SH
Vilas	L Content	1592000	244	Other	101	Other	9
Vilas	L Laura	995200	599	Other	238	Other	15
Vilas	Lac Des Fleurs	1630900	49	Other	4		
Vilas	Lac Vieux Desert	1631900	4300	1-2 Year PE	628	Other	30
Vilas	Little Arbor Vitae L	1545300	534	Other	213	Other	14
Vilas	Little Crooked L	2335500	153	Other	8	Other	7
Vilas	Little Horsehead L	2953000	52	Other	23		
Vilas	Little John L	2332300	166	Other	69	Other	7
Vilas	Little Papoose L	2328200	46	Other	4	Other	3
Vilas	Little Portage L	1629200	170	Other	71	Other	7
Vilas	Little Presque Isle	2959700	85			Other	4
Vilas	Little Rice L	2338900	59	Other	4	Other	4
Vilas	Little Spider L	1540400	235	Other	31	Other	9
Vilas	Little St Germain L	1596300	980	Other	114	Other	20
Vilas	Little Star L	2334300	244	Other	101	Other	9
Vilas	Little Trout L	2321600	978	Other	114	Other	6
Vilas	Lone Pine L	2961600	142	Other	20	Other	6
Vilas	Long L	1602300	872	1-2 Year PE	752	Other	19
Vilas	Loon L	1001600	31	Other	3		
Vilas	Lost Canoe L	2339800	249	Other	102		
Vilas	Lost L	1593400	544	Other	67	Other	14
Vilas	Lower Aimer L	2955000	34	Other	3		
Vilas	Lower Buckatabon L	1621000	352	1-2 Year PE	20	Other	11
Vilas	Lower Gresham L	2330300	149			Other	6
Vilas	Lynx L	1600000	22	Other	10	Other	2
Vilas	Lynx L	2954500	339	1-2 Year PE	118	Other	11
Vilas	Mamie L	2964100	400	Other	155	Other	11
Vilas	Manitowish L	2329400	506	Other	202	Other	14
Vilas	Mann L	2332000	261	Other	10		
Vilas	Marshall L	1626600	87	Other	5	Other	5
Vilas	Mccullough L	2960400	216	Other	9	Other	8
Vilas	Mermaid L	2768100	60	Other	4		
Vilas	Meta L	1004400	175	Other	8		
Vilas	Middle Ellerson L	1866100	60			Other	2
Vilas	Middle Gresham L	2330700	53	Other	4	Other	3
Vilas	Moccasin L	1005700	83	Other	5	Other	4
Vilas	Moon L	1005800	131	Other	18	Other	6
Vilas	Morton L	2960300	163	Other	8	Other	7
Vilas	Murphy L	2769700	81	Other	5	Other	4
Vilas	Muskellunge L	1596600	272	Other	36	Other	9
Vilas	N Crab L	2953400	56	Other	24	Other	4
Vilas	N Turtle L	2310400	369	1-2 Year PE	426	Other	11
Vilas	N Twin L	1623800	2788	Other	1027	Other	37
Vilas	Nelson L	1007600	104	Other	6	Other	5
Vilas	Nelson L	1869900	27			Other	2

County	Lake Name	WBIC Code	Area (acres)	Walleye Method	Walleye SH	Musky Method	Musky SH
Vilas	Nixon L	2341200	110	Other	6	Other	5
Vilas	No Mans L	2312100	225	Other	93	Other	8
Vilas	Norwood L	1008100	125	Other	14		
Vilas	Oswego L	1871800	66			Other	4
Vilas	Otter L	1600100	196	Other	81	Other	8
Vilas	Oxbow L	2954800	511	Other	204	Other	14
Vilas	Pallette L	1872100	173			Other	7
Vilas	Palmer L	2962900	635	1-2 Year PE	59	Other	15
Vilas	Papoose L	2328700	428	Other	172	Other	12
Vilas	Partridge L	2341500	228	Other	10	Other	8
Vilas	Pickerel L	1619700	293	Other	11	Other	10
Vilas	Pine Island L	1011900	79	Other	5	Other	4
Vilas	Pioneer L	1623400	427	Other	54	Other	12
Vilas	Plum L	1592400	1033	1-2 Year PE	573	1-2 Year PE	9
Vilas	Plum L	2963200	100	Other	11		
Vilas	Presque Isle L	2956500	1280	Other	490	Other	23
Vilas	Presque Isle L Chain	2956501	1571	Other	105		
Vilas	Rainbow L	2310800	146	Other	61	Other	6
Vilas	Razorback L	1013800	362	Other	147	Other	11
Vilas	Rest L	2327500	608	Other	241	Other	15
Vilas	Rice L	1618600	71	Other	31	Other	4
Vilas	Roach L	1014000	51	Other	22	Other	3
Vilas	Roach L	2772500	125	Other	2		
Vilas	Rock L	2311700	122	Other	52	Other	6
Vilas	Rosalind L	1877900	43			Other	3
Vilas	Round L	2334900	116	Other	6	Other	6
Vilas	Rudolph L	2954300	79			Other	4
Vilas	Rush L	2343600	44	Other	19	Other	3
Vilas	S Turtle L	2310200	454	1-2 Year PE	193	Other	13
Vilas	S Twin L	1623700	642	Other	254	Other	16
Vilas	Sanford L	2335300	88	Other	38	Other	5
Vilas	Scattering Rice L	1600300	267	Other	110	Other	9
Vilas	Sherman L	1880700	123	1-2 Year PE	74	Other	6
Vilas	Smoky L	1018300	610			Other	1
Vilas	Snipe L	1018500	239	1-2 Year PE	72	Other	9
Vilas	Sparkling L	1881900	154	Other	21	Other	7
Vilas	Spectacle L	717400	171	Other	8		
Vilas	Spider L	2329300	272	Other	112	Other	9
Vilas	Spring L	2964800	205	Other	85		
Vilas	Squaw L	2271600	785	1-2 Year PE	371	Other	18
Vilas	Star L	1593100	1206	Other	463	Other	23
Vilas	Stateline L	2952100	199	Other	3		
Vilas	Stewart L	1020000	39	Other	17		
Vilas	Stone L	2328800	139	Other	59	Other	6
Vilas	Sturgeon L	2327200	32	Other	14	Other	2

County	Lake Name	WBIC Code	Area (acres)	Walleye Method	Walleye SH	Musky Method	Musky SH
Vilas	Sumach L	1020500	60	Other	4	Other	4
Vilas	Sunset L	1020900	185	Other	8	Other	7
Vilas	Tenderfoot L	2962400	437	1-2 Year PE	357	Other	11
Vilas	Towanda L	1022900	146	Other	20	Other	6
Vilas	Trout L	2331600	3816	1-2 Year PE	826	Other	44
Vilas	Twin Island L	2959300	205			Other	8
Vilas	Twin L Chain	1623801	3430	Other	11		
Vilas	Upper Aimer L	2955100	33	Other	3		
Vilas	Upper Buckatabon L	1621800	494	1-2 Year PE	33	Other	13
Vilas	Upper Gresham L	2330800	366	Other	47	Other	11
Vilas	Van Vliet L	2956800	220	Other	91	Other	8
Vilas	Vance L	2327300	30	Other	13	Other	2
Vilas	Verna L	1540300	77			Other	4
Vilas	Voyageur L	1603400	130	Other	55	Other	6
Vilas	W Bay L	2964000	368	Other	70	Other	5
Vilas	W Plum L	1592500	75	Other	32	Other	4
Vilas	W Witches L	1177500	30	Other	3		
Vilas	Watersmeet L	1599400	100	Other	43	Other	5
Vilas	White Birch L	2340500	112	Other	48	Other	5
Vilas	White Sand L	2339100	734	Other	88	Other	17
Vilas	Wild Rice L	2329800	379	Other	123	Other	9
Vilas	Wildcat L	2336800	305	Other	39	Other	10
Vilas	Wolf L	2336100	393	1-2 Year PE	231	Other	12
Vilas	Yellow Birch L	1599600	202	Other	84	Other	8
Washburn	Balsam L	2112800	295	Other	121		
Washburn	Bass L	1833300	130	Other	55		
Washburn	Bass L	2451300	144	Other	20		
Washburn	Bass L	2451900	188	1-2 Year PE	105	Other	7
Washburn	Bean L	2718500	100	Other	6		
Washburn	Beartrack North Lake	2452399	33	Other	15		
Washburn	Beartrack South Lake	2452300	65	Other	28		
Washburn	Big Bass L	2453300	203	Other	27		
Washburn	Birch L	2113000	368	Other	47		
Washburn	Cable L	2456100	185	Other	25		
Washburn	Chippanazie L	2722800	58	Other	25		
Washburn	Colton Fl	2702100	58	Other	25		
Washburn	Deep L	1844000	43	Other	19		
Washburn	Dunn L	2709800	193	Other	80		
Washburn	Gilmore L	2695800	389	Other	13		
Washburn	Horseshoe L	2470000	194	Other	26		
Washburn	Island L	2470600	276	Other	36		
Washburn	L Nancy	2691500	772	Other	92	Other	17
Washburn	Leach L	2474400	30	Other	13		
Washburn	Leisure L	2475000	75			Other	4
Washburn	Little Long L	2664500	112	Other	6		

County	Lake Name	WBIC Code	Area (acres)	Walleye Method	Walleye SH	Musky Method	Musky SH
Washburn	Little Mud L	2107100	71	Other	31		
Washburn	Little Sand L	2477700	74	Other	11		
Washburn	Little Stone L	1862400	27	Other	2		
Washburn	Long L	2106800	3290	1-2 Year PE	799		
Washburn	Matthews L	2710800	263	Other	34	Other	9
Washburn	Mclain L	2481600	150	Other	21		
Washburn	Middle Mckenzie L	2706500	530	Other	65	Other	14
Washburn	Minong Fl	2692900	1564	Other	593		
Washburn	Mud L	2107700	103	Other	6		
Washburn	Pavlas L	2488100	44	Other	3		
Washburn	Rice L	2696000	132	Other	56		
Washburn	Ripley L	2492600	190	Other	26		
Washburn	S Twin L	2494500	115	Other	16		
Washburn	Shell L	2496300	2580	1-2 Year PE	571	Other	35
Washburn	Silver L	2496900	188	Other	25		
Washburn	Slim L	2109300	224	Other	30		
Washburn	Spider L # 5	1882500	177	Other	8		
Washburn	Spring L	1882900	42	Other	3		
Washburn	Spring L	2498600	211	Other	28		
Washburn	Stone L	1884000	39	Other	3		
Washburn	Stone L	1884100	523	1-2 Year PE	66		
Washburn	Tozer L	2502000	36	Other	5		
Washburn	Trego L	2712000	451	Other	56	Other	13