

pressure were allotted a higher percentage of time to be checked during a route. Due to budgetary constraints Ashland and Cornucopia / Port Wing were only surveyed during June – August. Effort (angler trips and angler hours) estimates for Ashland in April, May and September were derived: APRIL-used the same effort that occurred during April 2011 and using the Lake Trout harvest rate that occurred in Washburn during April 2016. MAY-effort and Lake Trout harvest was calculated by taking the percent change that occurred at Washburn in May 2011 to May 2016 and applying it to the May 2011 data for Ashland. Data from April and May 2014 (the last time Ashland was surveyed) was not used because 2014 was a late ice out year. SEPT-effort and Lake Trout harvest was calculated by taking the percent change that occurred at Washburn in Sept 2011 to Sept 2016 and applying it to the Sept 2011 data for Ashland.

Cornucopia / Port Wing effort (angler trips and angler hours) estimates for April, May and September for management unit WI – 1 were derived the taking the same effort and lake trout harvest rates from 2010 (2013 – the last time Cornucopia / Port Wing was surveyed was not used do to late ice off). For management WI – 2 April, May and September effort and Lake Trout harvest was calculated by taking the percent change that occurred at Washburn in 2010 to May 2016 and applying it to the April, May and September 2010 data.

In a single loop time-interval creel, the clerk starts and finishes a route at the initial pressure site (i.e. one complete circuit). The initial pressure site, as well as the direction of travel, changed randomly according to computer generated schedules.

Using the time interval procedure, vehicles with boat trailers and harbor boats were counted at each access site. Boats going out to fish or coming in from fishing were counted as a fraction of the time the clerk spent at the site [i.e. individual boat pressure = (creel shift in minutes – minutes at site) / creel shift in minutes]. A boat starting to fish was added to the initial pressure and a boat stopping or coming in from fishing was subtracted from the initial pressure. An example of a time interval pressure worksheet is shown in Appendix I.

The open water creel routes, start times, stop times, etc. are shown in Appendix II.

Boats returning from fishing were interviewed at the site. Total number of anglers on board was treated as an angler party. The type of fishery they were involved in was recorded. If the boat was fishing for cool water species such as Northern Pike, Walleye, Yellow Perch, Smallmouth Bass in a predominately cool water area, it was recorded as “open water cool private”. If the boat was fishing for trout, salmon or Lake Whitefish, it was recorded in “open water cold private”. If the boat was fishing for “anything that bites”, the area the boat fished would determine which category to place the boat in. Finally, if the boat did not fish at all it was placed in the category “pleasure”. Charter boats were not counted in pressure at a site due to mandatory reporting. Sailboats were also excluded from the pressure unless fishing gear (e.g. downriggers or rods) was present. The jurisdiction in which the boat fished was also determined. Saxon Harbor and Superior are considered boundary waters, with Michigan and Minnesota respectively. Computer programming in the final estimation of total effort and harvest eliminated effort and fish harvested in waters other than Wisconsin. Boats that fished both states’ waters had half the total effort/harvest assigned to Wisconsin waters.

The fish harvested (if any) by the boat were identified and measured to the nearest tenth of an inch. Fin-clips were recorded as well as any tags that were present. An interview sample sheet is shown in Appendix III.

Pressure and harvest estimates were calculated by route, month, weekday and weekend, as well as the type of fishery the anglers were involved in (i.e. open water cold, open water cool etc.). The open water creel survey data was calculated using SAS statistical computer program.

ICE CREEL

An ice-fishery creel survey was conducted along the main shore from Washburn (i.e., Bono Creek / “S” curve access) through the northern most area of fishing activity (Bayfield / Red Cliff / Schooner Bay). The ice-fishery creel survey started on January 14, 2016 (first ice Bono Creek / “S” curve access) and ended on March 10, 2016. Cornucopia, Madeline Island, Ashland, the Western waters of Lake Superior and Saxon were not surveyed.

The pressure estimate was done by the stratified creel survey method (Appendix IV). Two separate vehicle counts were made daily starting at approximately 9:00 AM and 2:00 PM for each site in a given random route. Vehicles present in morning and afternoon checks were not counted twice. An ice pressure sample sheet is shown in Appendix V. Interviews for the ice-fishery creel were conducted in the same manner as the open water method. The number of anglers in a vehicle was considered an angling party. Anglers involved in the ice fishery were separated into three different fisheries: ice shallow water, ice cool water and ice “bobbing”. Ice shallow water is considered fishing in waters less than 60 feet for salmonids, coregonids, and smelt. Ice cool water is considered fishing for cool water species such as Northern Pike,

Walleye, and Yellow Perch. Ice “bobbing” is considered fishing in water deeper than 60 feet or more (mainly for Lake Trout and Lake Whitefish).

Estimates of ice fishing pressure and harvest rates were separated by month, weekend, and weekday, as well as the type of fishery in which the anglers were involved.

DECEMBER / JANUARY OPEN WATER CREEL

An open water creel survey was conducted along the main shore from December 1, 2015 – January 9, 2016 (final ice up) in Saxon, Ashland, Washburn, Bodin’s Resort, Sioux River Access, Bayfield, Red Cliff, Little Sand Bay and Cornucopia. Methods were similar to the ice creel methods. The pressure estimate was done by the stratified creel survey method. Two separate vehicle/trailer counts were made daily starting at approximately 9:00 AM and 2:00 PM for each site in a given random route. Vehicle/trailers present in morning and afternoon checks were not counted twice. Interviews were conducted in the same manner as the open water method.

CHARTER

Harvest estimates for guided charters came from mandatory monthly reports that were initiated in 1973. Information on number of anglers, hours fished, location (grid), and number of various species harvested was included in the Sport Trolling License Monthly Report (Form 9400-249) (Appendix VI).

STURGEON

Harvest estimates on Lake Sturgeon were taken from mandatory registration. Pressure estimates were not available due to the incidental nature of the fishery.

WEIGHTED MEAN; LENGTH - WEIGHT REGRESSION

The total number of Lake Trout harvested during the 2016 fishing year by sport angling was calculated using a weighted mean. Extraction of this number was done by fishery type, fishing port, harvest estimate, month, average length and percent of native origin fish. Weight extrapolated from the total harvest of all species was calculated using the length-weight regression equations from data collected from the DNR assessments during 2016. Weights were calculated using regression equations from data collected on various DNR assessments. See Appendix VII for individual species regression equations.

EMERGENCY LAKE TROUT REGULATION

An emergency rule governing the harvest of sport caught Lake Trout on the Wisconsin waters of Lake Superior went into effect on Jan. 11, 2016 through Sept. 30, 2016. The emergency rule was designed to preserve a sustainable Lake Trout harvest in the Wisconsin waters of Lake Superior and addresses both commercial and recreational harvest limits. The emergency rule established a recreational daily harvest limit east of Bark Point (WI-2) at a Daily Bag Limit of 3, 2 fish between 20” – 25” and one fish over 40”. Lake Trout recreational daily harvest limits for waters west of Bark Point (WI-1) were unaffected by this emergency rule and remained as a three-fish total daily bag limit with a 15 inch minimum size limit but only one fish greater than 25 inches. The regulations for WI-2 from December 1, 2015 – January 10, 2016 was three-fish total daily bag limit with a 15 inch minimum size limit but only one fish greater than 25 inches. Due to this emergency Lake Trout rule caution should be taken when comparing 2016 data to previous years.

RESULTS

December / January Open Water Creel

The weather for most of December was marked by an unusually mild/warm and calm conditions. Anglers had ample opportunity to extend their open water trolling season. Anglers were able to open water fish until January 9, 2016.

An estimated 422 angler trips and 2,038 angler hours resulted in an estimated harvest of 543 fish. Washburn – Little Sand Bay had the highest effort (342 angler trips and 1,665 angler hours) and harvest (503 fish; 83 Lake Trout). Saxon effort (50 angler trips and 200 angler hours) was second; resulting in a harvest of 10 fish (all Lake Trout). Ashland effort (30 angler trips and 173 angler hours) was third resulting in a harvest of 30 fish (15 Lake Trout and 15 Splake) (Table 1).

Ice Fishery

The 2016 ice fishing season on Chequamegon Bay (Washburn side) started approximately Jan. 14, 2016 off the “S” Curve (Bono Creek access) and Bodin’s Resort, Jan. 18, 2016 off the Washburn coal dock and Jan. 21, 2016 off of Red Cliff. The 2016 ice fishing season started and ended earlier than normal. Several locations (Bodin’s Resort north through Bayfield) had marginal / unsafe ice conditions off and on throughout the season. Deep water “Bobbing” activity was limited. Anglers were only able to fish the near mainland bobbing areas, Hermit Island and briefly along the southwest side of Stockton Island. The ice creel survey ended March 6, 2016 at Bodin’s Resort and Red Cliff, on March 10, 2016 at the “S” Curve (Bono Creek access).

ICE SHALLOW WATER

WASHBURN / BAYFIELD- An estimated 4,074 angler trips and 23,779 angler hours resulted in an estimated harvest of 5,664 fish (Table 1). Effort was down slightly from the last two winter’s effort (angler trips 2015=4,576, 2014=4,554 and angler hours 2015=27,038, 2014= 25,396) (Table 2). The harvest of 5,664 fish was up from last year’s harvest of 4,744 fish and was the highest since 2000 when the harvest was 7,006 fish. Lake Whitefish was the number one species harvested with 2,038 fish, down slightly from last year’s record harvest of 2,307. Rainbow Smelt was second with 1,327 fish, the highest smelt harvest since 2000 when the harvest was 3,687. Splake were third with a harvest of 1,021 fish, the highest harvest since 2001 when the harvest was 1,058 fish. Of the estimated 1,021 Splake 88% (898) were extended growth Splake; stocked in the spring. Brown Trout were fourth with 436 fish. Of the estimated 436 Brown Trout, 53.4% (233) were hatchery origin. The overall harvest rate in this fishery was 0.24 fish/hour, the highest rate since 2012 when the rate was 0.28 fish/hour (Table 3).

ICE COOL WATER

WASHBURN / BAYFIELD- A limited cool water fishery exists off the Washburn / Bayfield areas. An estimated 31 angler trips and 120 angler hours, resulted in estimated harvest of 9 fish (all Yellow Perch). The overall harvest rate in this fishery was 0.75 fish/hour (Table 1).

ICE DEEP WATER - BOBBING

APOSTLE ISLANDS- An estimated 537 angler trips and 3,567 angler hours resulted in an estimated harvest of 1,636 fish (Table 1). This was the lowest effort since 2012 when the effort was 377 angler trips and 2,368 angler hours (Table 2). Lake Whitefish was the number one species harvested with 1,375 fish for 84% of the harvest. Lake Trout was second with a harvest of 141 fish (8.6%). Splake were third with 83 fish for 5.1% of the harvest (Table 4). The overall harvest rate in this fishery was 0.46 fish/hour; this was the highest rate on record. The Lake Trout harvest rate was 0.04 LT/hour; up slightly from last year’s record low of 0.03 LT/hour (Table 4). The low Lake Trout harvest and harvest rate is likely a result of the poor ice coverage preventing anglers from reaching prime “bobbing” waters and a more restrictive emergency Lake Trout regulation that went into effect on Jan 11, 2016.

Open Water

COLD PRIVATE

EFFORT- During 2016, an estimated 27,878 individual angler trips and 137,538 angler hours were spent pursuing cold water species (trout and salmon) on Wisconsin waters of Lake Superior (Table 1). Of the eight areas surveyed (the Port of) Superior had the highest effort with 7,641 angler trips and 35,610 angler hours. This was lower than last year’s effort (9,014 angler trips and 44,941 angler hours) but higher than the average effort since 1990 of 6,233 angler trips and 32,340 angler hours. Cornucopia / Port Wing was second in effort with 4,905 angler trips and 24,234 angler hours. This effort was higher than during 2013 (3,575 angle trips and 16,105 angler hours) the last time Cornucopia / Port Wing was surveyed. Washburn had the third highest effort with 4,317 angler trips and 22,850 angler hours; consistent with the effort in previous year’s. Bayfield was fourth in effort with 3,976 angler trips and 16,792 angler hours. This was up from last year’s effort of 2,694 angler trips and 13,420 angler hours. Ashland was fifth in effort with 2,207 angler trips and 11,605 angler hours. This effort was similar to the effort in 2014 (2,370 angler trips and 11,711 angler hours) the last time surveyed. Red Cliff was sixth in effort with 1,959 angler trips and 11,545 angler hours. This effort was similar to last year’s effort of 1,899 angler trips and 11,650 angler hours. Little Sand Bay was seventh in effort with 1,574 angler trips and 8,517 angler hours. This was similar to last year’s effort of 1,574 angler trips and 7,929 angler hours. Saxon was last with 1,236 angler trips and 6,385 angler hours. This was higher than last year’s effort of 840 angler trips and 4,063 angler hours, but still the second lowest effort since 1990 (Table 5). The low Saxon effort was a result of two factors; 1) Saxon harbor was destroyed by a major flood that occurred on July 10th-11th that shut down fishing out of Saxon the rest of the fishing season and 2) the majority of the anglers out of Saxon fished in Michigan waters.

HARVEST- An estimated 17,713 fish were harvested in the eight areas surveyed. Of the six areas surveyed the entire season, Superior had the highest harvest with 4,680 fish. This was down considerably from last year's harvest of 9,084 fish (Table 6). Washburn was second with a harvest of 3,255 fish, higher than last year's harvest of 2,342 fish (Table 7). Little Sand Bay was third in harvest with 1,959 fish; up from last year's harvest of 1,499 fish (Table 8). Bayfield was fourth with a harvest of 1,888 fish; similar to last year's harvest of 1,814 fish (Table 9). Red Cliff was fifth with a harvest of 1,517 fish; higher than last year's harvest of 1,116 fish (Table 10).

Lake trout was the number one species harvested in this fishery with 9,534 fish. Superior recorded the highest Lake Trout harvest with 3,046 fish, down from last year's record harvest of 5,918 fish (Table 6). Cornucopia / Port Wing was second in Lake Trout harvest with 1,720 fish. This was higher than 2013 (last time surveyed) when the Lake Trout harvest was 931 (Table 11). Of the 1,720 Lake Trout harvested out of Cornucopia / Port Wing 1,575 were harvested in management unit WI-1 and 145 were harvested in management unit WI-2 (Table 12). All ports except Bayfield had higher Lake Trout harvest compared to 2015. This is probably the result of more liberal Emergency Lake Trout regulations in WI-2 in 2016 compared to 2015. Ashland had the highest Lake Trout harvest in WI-2 with 1,236 fish. This was lower than 2014 (last time surveyed) when the Lake Trout harvest was 1,789 (Table 13). Washburn was second in WI-2 Lake Trout harvest with 999 fish, this was an 80% increase over last year's harvest of 555 (Table 7). Red Cliff was third in WI-2 Lake Trout harvest with 932 fish; this was an 18% increase over last year's harvest of 790 fish (Table 10). Bayfield was third in WI-2 Lake Trout harvest with 684 fish, a decrease of 14.1% from 2015 harvest of 796 fish (Table 9). Little Sand Bay was fourth in WI-2 Lake Trout harvest with 496 fish, a 118.5% increase from 2015 Lake Trout harvest of 227 fish (Table 8). Saxon was last in Lake Trout harvest in WI-2 with 421, however this was a 44.7% increase from last season's harvest of 291 fish (Table 14).

The total Lake Trout harvest (in this fishery) of 9,534 was separated by management unit: 4,621 Lake Trout were harvested in WI-1, while 4,913 Lake Trout were harvested in WI-2 (Table 12).

A high proportion of Lake Trout harvested were of native origin. The percentage of native lake trout harvest was 100% in Ashland, Little Sand Bay, Red Cliff and Saxon. Washburn was second with 99.1%, Cornucopia / Port Wing third with 89.7%, Bayfield fourth with 84.8% and Superior with 83.8% (Table 15). In this fishery the average Lake Trout length was 21.9" (native average = 21.9", hatchery average = 22.4").

Coho Salmon was the second most abundant species harvested (in the six areas surveyed for the entire season) accounting for 20.4% (N = 2,906) of the harvest. This Coho harvest was down from 2015 (the last time these six areas were surveyed) when 3,271 Coho were harvested (Table 16). Washburn had the highest Coho harvest with 1,147 Coho. This was the highest Coho harvest out of Washburn since 2013 (N=2,780) (Table 7). Superior had the second highest Coho harvest with 645 fish a 65.3% decrease from last year's Coho harvest of 1,858 fish (Table 6). Little Sand Bay was third in Coho harvest with 568 a 130% increase from last year's Coho harvest of 247 (Table 8). Saxon was fourth in Coho harvest with 372 fish a increase of 112.6% from last year's Coho harvest of 175 (Table 14). Bayfield was fifth in Coho harvest with 100 fish a decrease from 2015 Coho harvest of 143 fish (Table 9). Red Cliff was last in Coho harvest with 74 fish a increase from last year's harvest of 8 (Table 10). The average size Coho in this fishery for all areas surveyed this year was 18.4".

Brown Trout ranked third with 2,866 fish harvested, accounting for 20.1% of the harvest. This year's harvest was a slight increase from last year's harvest of 2,589 (Table 16). All ports surveyed (except Superior) had an increase in Brown Trout harvest over last year's harvest. Brown Trout harvest out of Little Sand Bay was the highest with 854 fish. This was an increase over last year's harvest of 738 fish (Table 8). Of the 854 Brown Trout harvested, 35.4% were of hatchery origin fish. Bayfield was second in Brown Trout harvest with 826 fish. The second year in a row with record harvest (dating back to 1994) (Table 9). Of the 826 Brown Trout harvested, 67.4% were of hatchery origin. Washburn was third with 560 fish, an increase over last year's harvest of 493 (Table 7). Of the 560 Brown Trout harvested, 67.7% were of hatchery origin fish. Red Cliff was fourth in Brown Trout harvest with 440 fish a 99.1% increase over last year's harvest of 221. (Table 10). Of the 440 Brown Trout harvested, 78.5% were of hatchery origin fish. Saxon was fifth with a harvest of 119 fish the highest harvest since 2007 (N=132) (Table 14). Of the 119 Brown Trout harvested, 75.5% were of hatchery origin fish. Superior was last in Brown Trout harvest with 67 fish, down from last year's harvest of 259 fish (Table 6). Of the 67 Brown Trout harvested, 27% were of hatchery origin fish. The average size Brown Trout for all areas surveyed was 19.9" (native average = 20.6"; hatchery average = 19.4") (Table 1). Brown Trout harvest estimates would be higher if the creel survey was conducted from October through ice up and during the first month of the open water season at small boat access areas that were not part of this survey.

HARVEST RATES- The highest harvest rate for all species was out of Little Sand Bay (0.23 fish/hour), followed by Saxon (0.15 fish/hour), Washburn (0.14 fish/hour), Superior (0.13 fish/hour), Red Cliff (0.13 fish/hour) and Bayfield (0.11 fish/hour). Little Sand Bay harvest rate was the highest on record dating back to 1994. Saxon harvest rate was the same

as last year's rate. Washburn's rate was higher than last year's rate of 0.12 fish/hour. Superior harvest rate was lower than last year's record rate of 0.20 fish/hour. Red Cliffs harvest rate was higher than last year's rate of 0.10 fish/hour. Bayfield harvest rate was lower than the last two times surveyed (2012=0.27 fish/hour, 2015=0.14 fish/hour). (Table 6-10, 14).

Lake Trout harvest rate was the highest out of Superior at 0.09 LT/hour, down from last year's record high rate of 0.13 LT/hour. Red Cliff's LT harvest rate was second at 0.08 LT/hour, this was higher than last year's rate of 0.07 LT/hour. Saxon Lake Trout harvest rate was third at 0.07 LT/hour the same as last year's record low. Little Sand Bay Lake Trout harvest rate was fourth at 0.06 LT/hour, this was an increase from last year's rate of 0.03 LT/hour. Washburn and Bayfield were last in Lake Trout harvest rate at 0.04 LT/hour. This was an increase from last year's record low of 0.03 LT/hour for Washburn. Bayfield Lake Trout harvest rate the lowest on record dating back to 1994. (Table 6-10, 14).

Lake Trout harvest rates (LT/hour) during the months of June-August (the peak of the LT season) were the highest out of Ashland with 0.19 LT/hour. The same rate as during 2014 (last time surveyed). Cornucopia / Port Wing, Little Sand Bay and Red Cliff were second with 0.10 LT/hour. Cornucopia / Port Wing was the same as during 2013 (last time surveyed), LSB was higher than last year's rate of 0.05 LT/hour, Red Cliff was also higher than last year's rate of 0.08 LT/hour. Washburn was third with a rate of 0.08 LT/hour. Higher than last year's rate of 0.04 LT/hour. Superior was fourth with 0.07 LT/hour, a decrease from last year's record rate of 0.14 LT/hour. Bayfield was last of a rate of 0.05 LT/hour, down from last year's rate of 0.08 LT/hour (Table 17).

OPEN WATER COOL PRIVATE

This creel survey was designed to put special emphasis on the Lake Trout harvest in Wisconsin waters of Lake Superior. Due to budgetary constraints and to ensure accuracy in the Lake Trout harvest, certain predominately cool water ports were not surveyed. The cool water data in this report should be considered a minimum estimate due to these factors. The cool water effort surveyed out of Saxon occurred from anglers mostly fishing the Bad River; this effort was not included in this report.

EFFORT- During 2016, an estimated 11,712 individual angler trips and 54,163 angler hours were spent pursuing cool water species on Wisconsin waters of Lake Superior (Table 1). Of the eight areas surveyed in 2016, Ashland had the highest cool water effort, despite only being surveyed for June-August, with 6,555 angler trips and 33,175 angler hours. Superior was second in cool water effort with 3,959 angler trips and 16,439 angler hours, this was the lowest effort since 2012 (2,307 angler trips and 4,677 angler hours). Washburn cool water effort was third with 1,052 angler trips and 4,088 angler hours, the lowest effort since 2013 (911 angler trips and 3,646 angler hours). Cornucopia / Port Wing (June-August only) was the only other port to survey a cool water fishery. (116 angler trips and 461 angler hours) (Table 18). Bayfield, Little Sand Bay, Red Cliff and Saxon did not have any cool water effort.

HARVEST AND HARVEST RATES- An estimated 5,518 fish were harvested in the cool water fishery this season (Table 1). Ashland had the highest cool water harvest, despite only being surveyed for June-August with 4,009 fish. This was the highest harvest out of Ashland dating back to 2000 (Table 19). Superior was second in harvest with 1,205 fish this was the lowest cool water harvest since 2012 (N=229) (Table 20). Washburn was third in cool water harvest with 283 fish this was higher than last year's harvest of 184 fish (Table 21). Cornucopia / Port Wing was last in cool water harvest with 21 fish. This was higher than during 2013 (last time surveyed) with 11 fish (Table 22).

Walleye was the number one species harvested with 3,142 fish. Ashland accounted for 1,979 Walleye, Superior 956 Walleye, Washburn 186 and Cornucopia / Port Wing 21. The average size Walleye harvested in this fishery was 17.9 inches. Northern Pike were the second most harvested species with 486 fish. (Ashland = 337, Washburn = 97, Superior = 52). The average size Northern Pike in this fishery was 28.4 inches (Table 1).

The overall harvest rate was highest out of Ashland with a rate of 0.12 fish/hour (Table 19). Superior and Washburn were tied for second with a harvest rate of 0.07 fish/hour. Washburn rate was the highest since 2012 (0.08 fish/hour) and Superior was the lowest since 2015 (0.05 fish/hour) (Table 20, 21). Cornucopia / Port Wing was last with 0.05 fish/hour, an increase from 2013 (last time surveyed) when the rate was 0.04 fish/hour (Table 22).

CHARTER FISHERY

EFFORT- There were 27 licensed charter captains that operated on the Wisconsin waters of Lake Superior during 2016. This was three more than last year and the same amount as 2014. The total effort of 1,363 angler trips and 6,958 angler hours was the highest since 2013 (1,417 angler trips and 8,185 angler hours) (Table 23). The Ashland/Bayfield/Washburn/Red Cliff/LaPointe/Port Superior area charters had the highest effort with 16 Charter captains, 1,097 angler trips and 5,429 angler hours. This was the highest effort since 2005 (1,162 angler trips and 6,619.5 angler

hours) (Table 24). Superior was second in effort with 6 Charter captains, 241 angler trips and 1,382 angler hours. This was similar to last year's effort of 240 angler trips and 1,363.5 angler hours (Table 25). Saxon was third in effort with 4 Charter captains, 17 angler trips and 109 angler hours. This was the second year with record low effort for Saxon (Table 26). Saxon harbor was destroyed by a major flood that occurred on July 10th-11th that basically shut down fishing out of Saxon the rest of the fishing season. Cornucopia / Port Wing were last in effort with 1 Charter captain, 8 angler trips and 38 angler hours. This was the second lowest effort for Cornucopia / Port Wing (Table 27).

HARVEST- The overall fish harvest (N = 2,040) and Lake Trout harvest (N = 1,765) were the second lowest on record in the Charter fishery and was slightly higher than last year's (fish=1,317 and LT=1,018) record low dating back to 1973 when mandatory reporting started (Table 23). The Lake Trout harvest of 1,765 fish accounted for 86.5% of the charter fishery harvest. Coho Salmon were a distant second with 112 fish for 5.5% of the harvest, Brown Trout third with 111 fish for 5.4% of the harvest. Lake Trout harvest was highest out of Ashland/Bayfield/Washburn/Red Cliff/LaPointe/Port Superior with 1,454 Lake Trout, Superior was second with 289 Lake Trout, Saxon was third with 20 Lake Trout and Cornucopia/Port Wing was last with 2 Lake Trout. Ashland/Bayfield/Washburn/Red Cliff/LaPointe/Port Superior Lake Trout harvest was the highest since 2005 (N=1,989), Superior Lake Trout harvest was down from last year (N=354), Saxon Lake Trout harvest was down from last year (N=32) and was the second lowest on record. Cornucopia / Port Wing Lake Trout harvest was the second lowest on record (Table 24-27).

HARVEST RATE- The overall harvest rate in the Charter fishery was 0.29 fish/hour, this was higher than last year's rate of 0.22 fish/hour (Table 23). Ashland/Bayfield/Washburn/Red Cliff/LaPointe/Port Superior charter harvest rate was the highest with 0.31 fish/hour, higher than last year's rate of 0.20 fish/hour. Saxon harvest rate was second with 0.25 fish/hour higher than last year's rate of 0.21 fish/hour. Superior harvest rate was third with 0.24 fish/hour down from last year's rate of 0.29 fish/hour. Cornucopia/Port Wing (with limited effort) harvest rate was last with 0.18 fish/hour the lowest harvest rate on record (Table 24-27).

The Lake Trout harvest rate was 0.25 LT/hour, higher than last year's rate of 0.17 LT/hour (Table 23). Ashland/Bayfield/Washburn/Red Cliff/LaPointe/Port Superior Lake Trout harvest rate was the highest with 0.27 LT/hour, higher than last year's rate of 0.15 LT/hour. Superior Lake Trout harvest rate was second with 0.21 LT/hour down from last year's rate of 0.26 LT/hour but still the second highest since 2009 (0.27 LT/hour). Saxon LT harvest rate was third with 0.18 LT/hour down from last year's rate of 0.20 LT/hour and tied for the lowest on record. C/PW LT harvest rate was last with 0.05 LT/hour (Table 24-27).

LAKE STURGEON FISHERY

Very few anglers target Lake Sturgeon in Wisconsin waters of Lake Superior. However, over the past few years increasing numbers of anglers are targeting Lake Sturgeon, especially during the early part of the open water season in Chequamegon Bay. Harvest information is obtained from mandatory registration of angler harvested Lake Sturgeon. In 2016, a total of 16 Lake Sturgeon were registered with an average length of 53.9" (range of 51.0" – 60.5"). This was the highest Lake Sturgeon harvest on record (Table 28).

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TABLE 1. 2016 CREEL SURVEY STATISTICS (ESTIMATED ANGLER TRIPS, ANGLER HOURS AND HARVEST BY FISHERY)

FISHERY TYPE	ANGL. TRIPS	ANGL. HOURS				BRWN		MEN					BUR-		BLK				TOTAL HRVST			
			LKT	COHO	CHIN.	TROUT	SPLK	RBT	FAT	WF	WF	HERR	BOT	SMELT	NOP	WAE	YEP	CRP		ROCK	PSEED	BLHD
ASHLAND	30	173	15				15															30
W/B/LSB	342	1665	83	63		217	131							3	3	3						503
CORNY	0	0	0																			0
SAXON	50	200	10																			10
TOTAL	422	2038	108	63	0	217	146	0	0	0	0	0	0	3	3	3	0	0	0	0	0	543
AVE. LENGTH(INCH)			22.8	16.3		19.0	18.0							6.7	28.0	17.1						

ICE FISHERY																						
WSHB/BYF SHAL.	4,074	23,779	213	60		436	1,021	5		2,038	9	140	45	1,327	22	4	344				5,664	
WSHB/BYF COOL	31	120															9				9	
BOBBING APOSISL	537	3,567	141	3		10	83		10	1,375		6	8								1,636	
BOBBING - MAD. ISL.	0	0																			0	
CORNY-BOBBING	0	0																			0	
CORNY-COOL	0	0																			0	
CORNY-SHALLOW	0	0																			0	
TOTAL	4,642	27,466	354	63	0	446	1,104	5	10	3,413	9	146	53	1,327	22	4	353	0	0	0	0	7,309
AVE. LENGTH(INCH)			22.4	16.8		21.3	18.3	26.0	23.5	18.2		17.9	24.6	6.1	28.3	18.0	8.7					

OPEN WATER COLD	*Surveyed June-Aug. April, May, Sept data devrived from previous years and added for Angl trps, Anglr hrs and LT harvest. Other species June-Aug data only.*																				
ASHLAND	2,270	11,605	1,236			33			33							32	223				1,557
BAYFIELD	3,976	16,792	684	100		826	278														1,888
CORN.-PORT W.	4,905	24,234	1,720	45	9	54			86												1,914
L. SAND BAY	1,574	8,517	496	568		854	41														1,959
RED CLIFF	1,959	11,545	932	74		440	62	9													1,517
SAXON	1,236	6,385	421	372	9	119	8	5				9									943
SUPERIOR	7,641	35,610	3,046	645	243	67		24	87				4		25	539					4,680
WASHBURN	4,317	22,850	999	1,147	42	560	176	36	12	208			12		42	21					3,255
TOTAL	27,878	137,538	9,534	2,951	303	2,953	565	74	218	208	0	9	16	0	99	783	0	0	0	0	17,713
AVE. LENGTH(INCH)			21.9	18.4	24.8	19.9	18.9	24.5	22.7	19.9		18.8	29.1		29.9	19.3					

OPEN WATER COOL	*June-Aug data only.*																					
ASHLAND	6,585	33,175	17			32									337	1,979	546	17	321	718	42	4,009
BAYFIELD	0	0																				0
CORN.-PORT WING	116	461													21							21
SAXON	0	0																				0
SUPERIOR	3,959	16,439	7												52	956	78	107	5			1,205
WASHBURN	1,052	4,088													97	186						283
TOTAL	11,712	54,163	24	0	0	32	0	486	3,142	624	124	326	718	42	5,518							
AVE. LENGTH(INCH)			21.9			18.8									28.4	17.9	8.3	10.8	9.3	8.3	12.5	

CHARTER																						
ASH/BAYF./WASH.	1,097	5,429	1,454	99	5	102	16	2														1,678
CORN. - PORT W.	8	38	2	5																		7
SAXON	17	109	20			7																27
SUPERIOR	241	1,382	289	8	9	2		1							19							328
TOTAL	1,363	6,958	1,765	112	14	111	16	3	0	0	0	0	0	0	19	0	0	0	0	0	0	2,040

WI - 1 TOTALS	16,368	75,538	4,919	703	261	101	0	25	173	0	0	0	4	0	77	1,535	107	107	5	0	0	8,017
WI - 2 TOTALS	32,778	169,953	6,866	2,486	56	3,658	1,831	57	55	3,621	9	155	65	1,330	533	2,416	870	17	321	718	42	25,106
GRAND TOTAL	46,017	228,163	11,785	3,189	317	3,759	1,831	82	228	3,621	9	155	69	1,330	610	3,951	977	124	326	718	42	33,123

AVE. LENGTH (IN)		21.9	18.3	24.7	20.0	18.5	24.6	22.7	18.3		18.0	25.6	6.1	28.6	18.2	8.5	10.8	9.3	8.3	12.5	
AVE. WEIGHT (LBS)		3.11	2.18	5.32	3.43	2.23	5.69	3.58	1.84		1.68	5.11	0.05	5.63	2.17	0.28					
TOTAL WEIGHT (LBS)		36,656	6,952	1,686	12,893	4,083	221	816	6,663		260	353	665	3,434	8,574	274					
SAMPLE SIZE		1,104	510	63	427	322	15	31	518		15	10	11	52	418	81	22	10	17	1	

STURGEON: 16 FISH REGISTRATED. EFFORT UNKNOWN.

TABLE 2
ESTIMATED ANGLER EFFORT (ANGLER TRIPS AND ANGLER HOURS) BY AREA IN WISCONSIN WATERS OF LAKE SUPERIOR,
ICE FISHERY, 1997-2016.

ANGLER TRIPS										
	ASHLAND-SHALLOW WATER	ASHLAND-COOL WATER	ASHLAND-BOBBING	WASHBURN-SHALLOW WATER	WASHBURN-COOL WATER	APOS. ISL.-BOBBING	CORNUCOPIA-SHALLOW WATER	CORNUCOPIA-COOL WATER	CORNUCOPIA-BOBBING	YEAR TOTAL
1997				1,857		3,576			1,546	6,979
1998				2,607		1,758				4,365
1999				5,902	192	5,074				11,168
2000				4,924	145	3,873		6	212	9,160
2001				3,481	164	5,525	10	8	563	9,751
2002				2,497	185	1,228				3,910
2003				1,681	16	5,313	16	20	1,274	8,320
2004				1,744	27	3,178	8	12	586	5,555
2005				2,791	187	6,008	1		138	9,125
2006				1,351	6	1,062				2,419
2007	3,118	2,234		2,854	160	3,480	4	10	156	12,016
2008				2,957	30	5,412	11	16	354	8,780
2009				1,524	19	4,192	88		1,091	6,914
2010				2,395	77	3,191				5,663
2011				2,711	109	1,993				4,813
2012	2,471	4,168	68	1,950	46	377				9,080
2013				3,254	3	1,414				4,671
2014				4,554	142	2,994	23	30	615	8,358
2015				4,576	75	2,333	8			6,992
2016				4,074	31	537				4,642
AVE	2,795	3,201	68	2,984	90	3,126	19	15	654	

ANGLER HOURS										
	ASHLAND-SHALLOW WATER	ASHLAND-COOL WATER	ASHLAND-BOBBING	WASHBURN-SHALLOW WATER	WASHBURN-COOL WATER	APOS. ISL.-BOBBING	CORNUCOPIA-SHALLOW WATER	CORNUCOPIA-COOL WATER	CORNUCOPIA-BOBBING	YEAR TOTAL
1997				10,614		21,126			8,098	39,838
1998				12,174		9,430				21,604
1999				28,423	1,097	27,949				57,469
2000				24,184	761	20,699		17	1,183	46,844
2001				16,897	946	30,753	16	37	2,918	51,567
2002				13,064	812	6,834				20,710
2003				7,965	96	30,924	50	65	6,495	45,595
2004				7,676	106	16,975	15	47	3,086	27,905
2005				13,266	528	32,365	3		736	46,898
2006				6,451	22	5,958				12,431
2007	17,487	10,540		15,266	750	19,287	8	41	764	64,143
2008				17,248	152	33,548	30	124	2,163	53,265
2009				8,180	38	26,595	356		6,840	42,009
2010				12,591	527	20,385				33,503
2011				14,591	545	12,653				27,789
2012	13,452	18,725	340	10,312	185	2,368				45,382
2013				16,947	21	9,245				26,213
2014				25,396	544	19,219	122	192	3,841	49,314
2015				27,038	347	15,227	38			42,650
2016				23,779	120	3,567				27,466
AVE	15,470	14,633	340	15,603	422	18,255	71	75	3,612	

TABLE 3
WISCONSIN'S LAKE SUPERIOR, ICE SHALLOW WATER ESTIMATED EFFORT, HARVEST AND HARVEST RATES 1991-2016.
(WASHBURN - BAYFIELD SIDE OF CHEQUAMEGON BAY ONLY)

YEAR	ANGLER TRIPS																	TOTAL			HARVEST RATE			
	ANGL TRPS	ANGL HOURS	LAKE TROUT	COHO SAL.	CHIN. SAL.	BROWN TROUT	SPLAKE	RBT	BROOK TROUT	FAT	WHITE FISH	MEN. WF	MULE WF	LAKE HERR.	ATL. SAL.	BUR BOT	SMELT	NOP	WAE	YEP	RUFFE	HRV ST	FISH/HOUR	LT/HOUR
1991-BC	2,973	15,105		65	18	83	702				76			1,525				11		14		2,494	0.17	0.00
1992-BC	3,422	16,845		520		2,224	374				69	51		1,808		34						5,080	0.30	0.00
1995-B	4,651	25,049	93	176	13	644	874				85	23		2,557		7	7,096	2	19			11,589	0.46	0.00
1996	NO SHALLOW WATER SURVEY																							
1997	NO SHALLOW WATER SURVEY																							
1998-B	2,607	12,174	108	240	23	135	598		5		103			299		54	5,321	14	17	320		7,237	0.59	0.01
1999-B	5,902	28,423	424	154		205	1,322		5		678	13		422		62	13,263	29	33	192		16,802	0.59	0.01
2000-B	4,924	24,184	333	174	15	231	628		6	6	1,271	48		128		83	3,687	75	29	292		7,006	0.29	0.01
2001-B	3,481	16,897	151	187	16	296	1,058				573	31	8	590		50	52	8	78	90		3,188	0.19	0.01
2002-BC	2,497	13,064	126	204	11	110	467				798	24		287		37	881			9		2,954	0.23	0.01
2003-BC	1,681	7,965	133		25	44	221		11		328	13		37		46	177					1,035	0.13	0.02
2004-BC	1,744	7,676	73	10		25	118				76			71		15				38		426	0.06	0.01
2005-BC	2,791	13,266	195	113		135	500	19	5	6	712	13		80		25	570			50		2,423	0.18	0.01
2006-BC	1,351	6,451	86	50	5	83	365	5			580	5		25		13	362			93		1,672	0.26	0.01
2007-B	2,854	15,266	68	1,611		356	717		11		1,054	27		142		13	739	6	18	370		5,132	0.34	0.00
2008-BC	2,957	17,248	82	442		373	396				352			46		6	152			27		1,876	0.11	0.00
2009-CD	1,524	8,180	173	66		61	158				308			76			59			10		911	0.11	0.02
2010-BC	2,395	12,591	61	39		107	214				585			7		6	489	5		96		1,609	0.13	0.00
2011-BC	2,711	14,591	76	357		651	530	19	6		628	20		161		4	90	13		255	5	2,815	0.19	0.01
2012-B	1,950	10,312	56	595	8	621	159	3			262	28		61		40	730	11	3	352		2,929	0.28	0.01
2013-B	3,254	16,947	117	422	3	383	157	10			1,122	11		57		60	921	12	7	403		3,685	0.22	0.01
2014-B	4,554	25,396	563	655	13	1,139	337	9		7	1,158	93		177		27	914	3	17	164		5,276	0.21	0.02
2015-B	4,576	27,038	129	88	4	775	303				2,307	33		144		63	391	3	5	499		4,744	0.18	0.00
2016-B	4,074	23,779	213	60		436	1,021	5			2,038	9		140		45	1,327	22	4	344		5,664	0.24	0.01

A = 1975-1990, 1993,1994,2007, 2012 CHEQUAMEGON BAY, WASHBURN, BAYFIELD
 B = 1991, 1992, 1995, 1998-2006, 2008, 2010, 2011, 2014, 2015, 2016 ONLY WASHBURN SIDE OF CHEQUAMEGON BAY SURVEYED
 C = 2002-2006, 2008-2010 MINIMUM DATA SHALLOW WATER SURVEY STARTED WHEN "BOBBING" BEGAN.
 D= SIOUX RIVER - BAYFIELD - RED CLIFF - RASPBERRY BAY.

**TABLE 4
WISCONSIN'S LAKE SUPERIOR ICE FISHERY DEEP WATER - BOBBING
(APOSTLE ISLAND'S) ESTIMATED HARVEST 1990-2016.**

YEAR	ANGL		LAKE	COHO	CHINOOK	BROWN				WHITE	MEN								MULE	TOTAL		ARVEST RATE	
	TRPS	HOURS	TROUT	SALMON	SALMON	TROUT	SPLAKE	RBT	FATS	FISH	WF	HERR	HOYI	BROOK	BURBOT	SMELT	NOP	WAE	WF	RUFFE	HRVST	FISH/HOUR	LT/HOUR
1990	1,526	8,604	539	9		11	13														572	0.07	0.06
1991	947	5,403	762			4	9		4												779	0.14	0.14
1992	1,451	8,171	1,343						23												1,366	0.17	0.16
1993	1,904	10,382	1,766	21	12	12	13		67		14	44		54							2,003	0.19	0.17
1994	1,768	1,096	1,385	11					650	5				15							2,066	1.89	1.26
1995	1,412	9,741	1,224	68	8	10	65		62	17		76		65			75				1,670	0.17	0.13
1996	2,508	13,687	1,453		22		24		657	20		11		43	7						2,237	0.16	0.11
1997	3,576	21,126	3,280	8	33		52		1057	23		96		275	132						4,956	0.23	0.16
1998	1,758	9,430	1,620	68	76	51	83	3	10	86		147		167	7						2,318	0.25	0.17
1999	5,074	27,949	4,065	187	6	42	239		216	1,487		216		244	240	3	7				6,952	0.25	0.15
2000	3,873	20,699	2,857	88	3	18	73		174	2,125		503		85	80						6,006	0.29	0.14
2001	5,525	30,753	5,074	262	33	42	56	6	752	1,029		242		158	54				6		7,714	0.25	0.16
2002	1,228	6,834	531	88	36	15	20		81	280		98		36	421						1,606	0.24	0.08
2003	5,313	30,924	2,824	10	54		11		1,470	415		48	5	40	16						4,893	0.16	0.09
2004	3,178	16,975	1,791	6					552	458		46		29							2,882	0.17	0.11
2005	6,008	32,365	4,533	92		5	11		421	2,020		258		127	13						7,480	0.23	0.14
2006	1,062	5,958	869	17		4	8		42	941		14		88							1,983	0.33	0.15
2007	3,480	19,287	2,740	510		22	38		447	1,688		598		43	386						6,472	0.34	0.14
2008	5,412	33,548	3,971	231		16	28		123	1,271		30		38							5,708	0.17	0.12
2009	4,192	26,595	2,133	18		10	8		68	546		56			8						2,847	0.11	0.08
2010	3,191	20,385	1,285	20		29	26		48	1,657		64		44							3,173	0.16	0.06
2011	1,993	12,653	1,374	17		10	26		94	834	34	18		12	5						2,424	0.19	0.11
2012	377	2,368	49	132		18	7	4	2	559		152		11	72				4		1,010	0.43	0.02
2013	1,414	9,245	820	249	12	39	6		91	929	3	37		6	17	27					2,236	0.24	0.09
2014	2,994	19,219	2,132	11		24	28		278	1,284		14		31							3,802	0.20	0.11
2015	2,333	15,227	418	15		26	9		20	2,441		46		162	12						3,149	0.21	0.03
2016	537	3,567	141	3		10	83		10	1,375		6		8							1,636	0.46	0.04

TABLE 5

ESTIMATED ANGLER EFFORT (ANGLER TRIPS AND ANGLER HOURS) BY AREA IN WISCONSIN WATERS OF LAKE SUPERIOR, OPEN WATER COLD PRIVATE, 1990-2016.

	ANGLER TRIPS								YEAR TOTAL	ANGLER HOURS								YEAR TOTAL
	ASHLAND	BAYFIELD	CORN. - PORT WING	LITTLE SAND BAY	RED CLIFF	SAXON	SUPERIOR	WASHBURN		ASHLAND	BAYFIELD	CORN. - PORT WING	LITTLE SAND BAY	RED CLIFF	SAXON	SUPERIOR	WASHBURN	
1990	3,956		6,126			2,898	8,420		21,400	17,191		26,089		14,085	45,988		103,353	
1991			3,506			3,256	8,892		15,654			16,003		17,157	51,945		85,105	
1992	3,467		5,554			2,242	7,630	9,252	28,145	16,658		26,707		10,257	43,734	48,185	145,541	
1993	1,021		6,295			4,020	9,728	6,891	27,955	5,940		25,798		21,627	58,215	36,428	148,008	
1994	2,941	3,815	6,646	317		4,462	7,640	7,925	33,746	16,186	21,528	28,284	1,345	23,423	41,718	37,729	170,213	
1995			6,486			3,587	7,745	7,256	25,074			26,971		17,714	41,424	35,750	121,859	
1996			4,030			3,015	6,495	6,120	19,660			18,493		15,566	37,674	26,588	98,321	
1997			3,392			4,510	4,500	5,967	18,369			15,295		22,653	23,454	26,133	87,535	
1998			6,888			3,454	4,300	8,257	22,899			26,983		16,196	21,634	35,275	100,088	
1999			5,792			3,641	5,271	12,337	27,041			26,891		17,921	25,692	56,503	127,007	
2000	2,193	4,818	3,664			3,758	4,050	9,744	28,227	11,943	24,895	15,489		18,436	19,219	48,631	138,613	
2001			6,913			3,391		7,774	18,078			29,656		17,358		38,769	85,783	
2002			6,351			3,708	6,586	8,463	25,108			29,443		15,791	33,027	37,015	115,276	
2003			6,848			3,308	5,387	5,232	20,775			31,388		16,152	25,434	24,277	97,251	
2004			6,979			4,976	5,883	5,812	23,650			31,070		23,479	29,773	29,253	113,575	
2005	4,233					4,882	6,831	5,130	21,076	20,556				22,185	31,569	25,849	100,159	
2006			6,153			3,607	3,462	4,190	17,412			26,068		17,993	16,263	20,402	80,726	
2007	2,869	4,762		1,766	759	3,882	5,108	3,534	22,680	15,120	27,124		10,463	4,622	19,571	25,126	18,472	120,498
2008			4,350			3,469	5,869	4,358	18,046			19,397		16,396	30,078	21,978	87,849	
2009		3,687			1,452	3,200	7,075	4,590	20,004		18,605			9,355	15,394	34,836	21,549	99,739
2010			5,580			3,498	7,241	6,292	22,611			26,048		17,946	36,964	32,128	113,086	
2011	2,804					2,387	6,030	5,823	17,044	13,769				13,168	32,762	28,080	87,779	
2012		3,850		2,337	1,911	2,929	2,940	6,480	20,447		20,659		11,493	11,373	14,847	14,192	32,105	104,669
2013			3,575			2,231	5,107	5,295	16,208			16,105		11,147	25,437	26,192	78,881	
2014	2,370					2,619	3,200	4,674	12,863					12,858	14,126	23,615	62,310	
2015		2,694		1,805	1,899	840	9,014	4,109	20,361				7,929	11,650	4,063	44,941	19,629	101,632
2016	2,270	3,976	4,905	1,574	1,959	1,236	7,641	4,317	27,878	11,605	16,792	24,234	8,517	11,545	6,385	35,610	22,850	137,538
AVE	2,873	3,938	5,533	1,556	1,505	3,297	6,233	6,393		14,342	21,039	24,325	7,808	9,250	16,288	32,340	30,935	

TABLE 6

WISCONSIN'S LAKE SUPERIOR. PRIVATE OPEN WATER-COLD FISHERY HARVEST 1988 - 2016. PORT OF SUPERIOR

YEAR	ANGL TRPS	ANGL HOURS	LAKE TROUT	COHO SALMON	CHINOOK SALMON	BROWN TROUT	RAINB. TROUT	ATLAN. SAL.	SPLAKE	BROOK TROUT	PINK SAL.	FATS	HERR	BURBOT	WF	SMELT	MUSKY	NOP	WAE	YEP	TOTAL HARVEST	HARVEST RATE		
																								FISH/HOUR
1988	10,537	58,693	5,155	2,236	2,461	22	72	13				62							142			10,163	0.17	0.09
1989	9,770	56,602	3,920	1,808	1,901	83	139	46		4		67				5			312			8,285	0.15	0.07
1990	8,420	45,988	2,932	321	881	83	43	7	7			122						5	369			4,770	0.10	0.06
1991	8,892	51,945	3,235	598	674	194	77	10				125						20	3,553			8,486	0.16	0.06
1992	7,630	43,734	2,587	185	896	69	14	67				163						20	2,459			6,460	0.15	0.06
1993	9,728	58,125	3,830	741	1,566	203	69	11				165	11	16				71	2,953			9,636	0.17	0.07
1994	7,640	41,718	1,962	354	390	34						55						34	759			3,588	0.09	0.05
1995	7,745	41,424	2,268	1,316	786	33	28	18	9	12		247					9		252			4,978	0.12	0.05
1996	6,495	37,674	1,488	317	1,024	116	26					55							676			3,702	0.10	0.04
1997	4,500	23,454	743	333	659	101	2					50							446			2,334	0.10	0.03
1998	4,300	25,692	1,359	142	274	37	6		5			23							631			2,477	0.10	0.05
1999	5,271	21,634	1,554	570	381	114	21					58						10	341			3,049	0.14	0.07
2000	4,050	19,219	1,681	135	408	72	17					37						23	140			2,513	0.13	0.09
2001*	NO CREEL SURVEY CONDUCTED DURING 2001.																							
2002	6,586	33,027	2,388	716	522	56	16					71							1,858	16		5,643	0.17	0.07
2003	5,387	25,434	1,316	303	200	37						9						41	2,186			4,092	0.16	0.05
2004	5,883	29,773	1,730	336	424	24						216							1,774			4,504	0.15	0.06
2005	6,831	31,569	3,073	478	405	34	9					35						41	698			4,773	0.15	0.10
2006	3,462	16,263	1,490	131	75	16	25					35						14	270			2,056	0.13	0.09
2007	5,108	25,126	2,220	1,348	310	72	23		3			29							576			4,581	0.18	0.09
2008	5,869	30,078	2,426	725	612	41	26					12						13	1,107			4,962	0.16	0.08
2009	7,075	34,826	3,094	430	348	106	17					30			5			3	906			4,939	0.14	0.09
2010	7,241	36,964	3,262	1,914	524	12	58				4	59			3			5	505	4		6,350	0.17	0.09
2011	6,030	32,762	3,673	1,827	322	121	29					89							142			6,203	0.19	0.11
2012	2,940	14,192	835	540	287	42	12			3		36							129			1,884	0.13	0.06
2013	5,107	25,437	1,533	962	460	157	45					29							461			3,647	0.14	0.06
2014	3,200	14,126	1,098	172	108	55	7					24						2	140			1,606	0.11	0.08
2015	9,014	44,941	5,918	1,858	342	259	17					184			5				501			9,084	0.20	0.13
2016	7,641	35,610	3,046	645	243	67	24					87		4				25	539			4,680	0.13	0.09

TABLE 7

WISCONSIN'S LAKE SUPERIOR. PRIVATE OPEN WATER-COLD FISHERY HARVEST 1992 - 2016.
WASHBURN

YEAR	ANGL	ANGL	LAKE	COHO	CHINOOK	BROWN	SPLAKE	RAINB.	ATLAN	BROOK	FATS	WHITE	MULE	BURBOT	HERR	NOP	WAE	YEP	TOTAL	HARVEST RATE	
	TRPS	HOURS	TROUT	SALMON	SALMON	TROUT		TROUT	SALMON	TROUT		FISH								FISH/HOUR	LT/HOUR
1992	9,252	48,185	2,369	1,265	584	1,388	294	23	24	15	16					12	6		5,996		
1993	6,849	36,136	1,789	1,280	298	338	28	3	10		44	12			30		3	3	3,838		
1994	7,925	37,729	1,549	4,943	83	311	170		5		5								7,066	0.19	0.04
1995	7,256	35,750	1,704	4,002	210	180	186	12	25		78			6	8				6,411	0.18	0.05
1996	6,120	26,588	2,469	752	237	213	68	8	9		4						12	29	3,801	0.14	0.09
1997	5,967	26,133	2,774	1,107	137	199	331	24			19	6					10	12	4,619	0.18	0.11
1998	8,257	56,503	4,199	527	144	175	205	35	11		110	3			11	91	32		5,543	0.10	0.07
1999	12,337	35,275	3,635	4,599	689	564	500	71			20	26			20		205	191	10,520	0.30	0.10
2000	9,744	48,631	3,716	2,113	251	517	204	45	10	15	11	15			9	88	52		7,046	0.14	0.08
2001	7,774	38,769	2,797	1,067	180	262	144	5				9					17	32	4,513	0.12	0.07
2002	8,463	37,015	2,432	1,255	292	206	87	19								56	208	86	4,662	0.13	0.07
2003	5,232	24,277	1,614	304	152	146	66	4			11	14			27	27	51		2,416	0.10	0.07
2004	5,812	29,253	2,730	1,314	277	206	72	38		12	45					26	30		4,750	0.16	0.09
2005	5,130	25,849	2,418	1,078	169	157	92	20			8				7	7	21		3,977	0.15	0.09
2006	4,190	20,402	1,406	447	15	184	67	30			20					19	8		2,196	0.11	0.07
2007	3,534	18,472	1,042	1,461	122	331	19	17								18	16		3,026	0.16	0.06
2008	4,358	21,978	1,720	584	116	347	81	30			19				13	16	6		2,932	0.13	0.08
2009	4,590	21,549	1,302	1,022	62	166	37				11					10	6		2,616	0.12	0.06
2010	6,292	32,128	1,516	3,581	111	296	89	34			10					46	13		5,696	0.18	0.05
2011	5,823	28,080	1,523	2,022	74	586	117	44		2		22			5	93			4,488	0.16	0.05
2012	6,480	32,105	2,675	2,460	166	837	54	64		7	23	374			6	76		15	6,757	0.21	0.08
2013	5,295	26,192	1,608	2,780	154	736	22	14			6	977			6	64	66		6,433	0.25	0.06
2014	4,674	23,615	2,233	582	31	648	24	27			41	603			10	11	17	46	4,273	0.18	0.09
2015	4,109	19,629	555	840	46	493	76				19	192			13	98	10		2,342	0.12	0.03
2016	4,317	22,850	999	1,147	42	560	176	36			12	208		12		42	21		3,255	0.14	0.04

TABLE 8

WISCONSIN'S LAKE SUPERIOR. PRIVATE OPEN WATER-COLD FISHERY HARVEST
1994, 2007, 2012, 2015, 2016.
LITTLE SAND BAY

YEAR	ANGL	ANGL	LAKE	COHO	CHINOOK	BROWN	SPLAKE	RAINB.	BROOK	FATS	WHITE	NOP	WAE	TOTAL	HARVEST RATE	
	TRPS	HOURS	TROUT	SALMON	SALMON	TROUT		TROUT	TROUT		FISH				FISH/HOUR	LT/HOUR
1994	317	1,345	191	7	3	29				2			7	239	0.18	0.14
2007	1,766	10,463	1,055	341	130	404	5	23		43				2,001	0.19	0.10
2012	2,337	11,493	1,326	557	87	349	12	20		11				2,362	0.21	0.12
2015	1,805	7,929	227	247		738	21	17		245		4		1,499	0.19	0.03
2016	1,574	8,517	496	568		854	41							1,959	0.23	0.06

TABLE 9

WISCONSIN'S LAKE SUPERIOR. PRIVATE OPEN WATER-COLD FISHERY HARVEST
1994, 2000, 2007, 2009, 2012, 2015, 2016.
BAYFIELD

YEAR	ANGL	ANGL	LAKE	COHO	CHINOOK	BROWN	SPLAKE	RAINB.	BROOK	FATS	WHITE	NOP	WAE	TOTAL	HARVEST RATE	
	TRPS	HOURS	TROUT	SALMON	SALMON	TROUT		TROUT	TROUT		FISH				FISH/HOUR	LT/HOUR
1994	3,815	21,528	1,391	1,045		138	49	6					31	2,660	0.12	0.06
2000	4,818	24,895	2,341	305	96	280	142	10	3	15		6	6	3,204	0.13	0.09
2007	4,762	27,124	2,382	1,163	185	566	41		20					4,357	0.16	0.09
2009	3,687	18,605	1,382	104		278	39	16	16	16				1,851	0.10	0.07
2012	3,850	20,659	3,062	2,103	16	336	120	2			2			5,641	0.27	0.15
2015	2,694	13,420	796	143		798	65					12		1,814	0.14	0.06
2016	3,976	16,792	684	100		826	278							1,888	0.11	0.04

TABLE 10

WISCONSIN'S LAKE SUPERIOR. PRIVATE OPEN WATER-COLD FISHERY HARVEST
2007, 2009, 2012, 2015, 2016.
RED CLIFF

YEAR	ANGL	ANGL	LAKE	COHO	CHINOOK	BROWN	SPLAKE	RAINB.	BROOK	FATS	WHITE	NOP	WAE	TOTAL	HARVEST RATE	
	TRPS	HOURS	TROUT	SALMON	SALMON	TROUT		TROUT	TROUT		FISH				FISH/HOUR	LT/HOUR
2007	759	4,622	788	87										875	0.19	0.17
2009	1,452	9,355	1,479	23		109	10			18				1,639	0.18	0.16
2012	1,911	11,373	1,443	142	27	14				34				1,660	0.15	0.13
2015	1,899	11,650	790	8	53	221	44							1,116	0.10	0.07
2016	1,959	11,545	932	74		440	62	9						1,517	0.13	0.08

TABLE 11

WISCONSIN'S LAKE SUPERIOR. PRIVATE OPEN WATER-COLD FISHERY HARVEST 1988 - 2016.
CORNUCOPIA - PORT WING

YEAR	ANGL	ANGL	LAKE	COHO	CHINOOK	BROWN	RAINB.		ATLAN.	BROOK	PINK		WF	HERR	SMELT	NOP	WAE	TOTAL	HARVEST RATE		
	TRPS	HOURS	TROUT	SALMON	SALMON	TROUT	SPLAKE	TROUT	SALMON	TROUT	FATS	SALMON						HARVEST	FISH/HOUR	LT/HOUR	
1988			986	3,296	1,685	182			27		55						13	6,244			
1989			1,109	1,739	479	309		58	8								22	3,724			
1990	6,126	26,089	719	509	108	217												1,553	0.06	0.03	
1991	3,506	16,003	1,101	491	39	72					19						36	1,758	0.11	0.07	
1992	5,554	26,707	2,292	797	289	186		5	24		92					4	189	3,878	0.15	0.09	
1993	6,295	25,798	1,591	898	362	111	8	10	8		105			10		11	70	3,184	0.12	0.06	
1994	6,646	28,284	1,252	555	264	248		50	25		14					13		2,421	0.09	0.04	
1995	6,486	26,971	925	1,140	285	115			17		306						18	2,806	0.10	0.03	
1996	4,030	18,493	1,118	593	203	130		81		18	38						8	2,189	0.12	0.06	
1997	3,392	15,295	896	579	210	252		17			75					46	23	2,098	0.14	0.06	
1998	6,888	26,983	3,161	547	264	231		11			428						74	4,716	0.17	0.12	
1999	5,792	26,891	2,515	1,445	469	268		36			236						10	4,979	0.19	0.09	
2000	3,664	15,489	1,786	149	251	157		17	4		82						7	2,453	0.16	0.12	
2001	6,913	29,656	3,949	594	278	236	14	122			54					36	35	5,318	0.18	0.13	
2002	6,351	29,443	3,166	982	626	129		31			296					7	104	5,341	0.18	0.11	
2003	6,848	31,388	3,111	349	592	116		47			137						237	4,589	0.15	0.10	
2004	6,979	31,070	3,494	576	207	171		88			408							4,944	0.16	0.11	
2005			NO CREEL SURVEY CONDUCTED.																		
2006	6,153	26,068	1,901	863	235	190	8	37			351	33	22				64	3,704	0.14	0.07	
2007			NO CREEL SURVEY CONDUCTED.																		
2008	4,350	19,397	1,833	1,112	150	241					184						45	3,565	0.18	0.09	
2009			NO CREEL SURVEY CONDUCTED.																		
2010	5,580	26,048	1,478	2,202	162	268		20			171	30		14				4,345	0.17	0.06	
2011			NO CREEL SURVEY CONDUCTED.																		
2012			NO CREEL SURVEY CONDUCTED.																		
2013	3,575	16,105	931	903	252	510		31			54							2,681	0.17	0.06	
2014			NO CREEL SURVEY CONDUCTED.																		
2015			NO CREEL SURVEY CONDUCTED.																		
2016	4,905	24,234	1,720	45	9	54					86							1,914	0.08	0.07	

TABLE 12 - 2016 LAKE TROUT EXTRACTION BY MANAGEMENT UNIT BY FISHERY

	ANGLR	ANGLR	EST. LT	%	EST. #	AVE SIZE	WGHTED		EST #	AVE SIZE	WGHTED	SMPLE	AVE SIZE
WI-1	TRIPS	HOURS	HARVEST	HATCH.	HATCH.	HATCH.	HATCH.	%NATIVE	NATIVE	NATIVE	NATIVE	SIZE	HTCH+NTV
OPEN WTR-COLD	*JUNE - AUG DATA ONLY*												
CORN. - PORT W.	4,403	21,804	1,575	10.40	164	23.4	3832.9	89.60	1,411	21.1	29776.3	106	
SUPERIOR	7,641	35,610	3,046	16.20	493	22.2	10954.6	83.80	2,553	21.5	54879.8	595	
TOTAL	12,044	57,414	4,621	14.22	657	22.5	14787.6	85.78	3,964	21.4	84656.1	701	
OPEN WTR-COOL													
CORN.-PORT WING	116	461	0										
SUPERIOR	3,959	16,439	7	12.34	1	22.4	19.3	87.66	6	21.0	128.9	0	
TOTAL	4,075	16,900	7	12.34	1	22.4	19	0.00	6	21.0	129	0	
CHARTER													
CORN.-PORT WING	8	38	2	15.79	0	22.2	7.0	84.21	2	22.2	37.4		
SUPERIOR	241	1,382	289	18.72	54	20.6	1114.5	81.28	235	20.3	4768.5		
TOTAL	249	1,420	291	18.70	54	20.6	1121.5	81.30	237	20.3	4805.8		
WI-1 TOTAL	16,368	75,734	4,919	14.49	713	22.4	15,928.4	85.51	4,206	21.3	89,590.8	701	21.5
WEIGHT (LBS)			14221			3.31	2358			2.82	11862		2.89
WI-2													
OPEN WTR DEC-JAN													
ASHLAND	30	173	15		0		0.00	100.00	15	22.3	334.5	1	
W/B/LSB	342	1665	83		0		0.00	100.00	83	22.6	1875.8	20	
CORNY	0	0	0		0		0.00	100.00	0		0.0		
SAXON	50	200	10		0		0.00	100.00	10	24.9	249.0	1	
TOTAL	422	2038	108	0.00	0	#DIV/0!	0.00	100.00	108	22.8	2459.3	22	
ICE													
WSHB/BYF-SHAL.	4,074	23,779	213	2.76	6	22.7	133.45	97.24	207	22.7	4701.7	37	
WSHB/BYF-COOL	31	120	0		0	0.0	0.00	100.00	0		0.0		
BOBBING-APOS ISL.	537	3,567	141		0	0.0	0.00	100.00	141	21.9	3087.9	35	
BOBBING-MAD ISL.	0	0	0		0	0.0	0.00	100.00	0		0.0		
CORNY-BOBBING	0	0	0		0	0.0	0.00	100.00	0		0.0		
CORNY-SHALLOW	0	0	0		0	0.0	0.00	100.00	0		0.0		
CORNY-COOL	0	0	0		0	0.0	0.00	100.00	0		0.0		
TOTAL	4,642	27,466	354	1.66	6	22.7	133.45	98.34	348	22.4	7789.6	72	
OPEN WTR-COLD													
ASHLAND	2,270	11,605	1,236		0		0.0	100.00	1,236	22.7	28057.2	44	
BAYFIELD	3,976	16,792	684	15.20	104	21.9	2276.9	84.80	580	22.7	13166.7	8	
CORNUCOPIA	502	2,430	145	8.94	13	23.1	299.4	91.06	132	21.1	2786.0	11	
LITTLE SAND BAY	1,574	8,517	496		0		0.0	100.00	496	22.1	10961.6	37	
RED CLIFF	1,959	11,545	932		0		0.0	100.00	932	22.0	20504.0	29	
SAXON	1,236	6,385	421		0		0.0	100.00	421	22.1	9304.1	90	
WASHBURN	4,317	22,850	999	0.92	9	23.3	214.1	99.08	990	22.4	22171.7	98	
TOTAL	15,834	80,124	4,913	2.57	126	22.1	2790.5	97.43	4,787	22.3	106951.3	317	
OPEN WTR-COOL	*JUNE - AUG DATA ONLY*												
ASHLAND	6,585	33,175	17	0.00	0	0.0	0.0	100.00	17	21.2	360.4	1	
SAXON	0	0	0	0.00	0	0.0	0.0	100.00	0	0.0	0.0	0	
WASHBURN	1,052	4,088	0	0.00	0	0.0	0.0	100.00	0	0.0	0.0	0	
TOTAL	7,637	37,263	17	0.00	0	0.0	0.0	0.00	17	0.0	360.4	1	
CHARTER													
ASH/BYF./WSH/RC	1,097	5,429	1,454	2.36	34	22.1	758.3	97.64	1,420	22.2	31517.0		
CORN.-PORT WING	0	0	0		0		0.0	100.00	0		0.0		
SAXON	17	109	20		0		0.0	100.00	20	22.3	446.0		
TOTAL	1,114	5,538	1,474	2.33	34	22.1	758.3	97.67	1,440	22.2	31963.0		
WI-2 TOTAL	29,649	152,429	6,866	2.42	166	22.1	3,682	97.58	6,700	22.3	149,524	412	22.3
WEIGHT (LBS)			22435			3.17	527			3.27	21908		3.27
WI-1+WI-2 TOTAL	46,017	228,163	11,785	7.46	879	22.3	19611	92.54	10,906	21.9	239114	1,113	22.0
WEIGHT (LBS)			36,656			3.26	2886			3.08	33770		3.11

**TABLE 13
WISCONSIN'S LAKE SUPERIOR. PRIVATE OPEN WATER-COLD FISHERY HARVEST 1988 - 2016.
ASHLAND**

YEAR	ANGL		LAKE	COHO	CHINOOK	BROWN	RAINB.	ATLAN	SPLAKE	BROOK	FATS	WHITE	HERR	NOP	SMB	WAE	YEP	TOTAL	HARVEST RATE	
	TRPS	HOURS	TROUT	SALMON	SALMON	TROUT	TROUT	SALMON		TROUT	TROUT	FISH						HARVEST	FISH/HOUR	LT/HOUR
1988-A			604	1,400	245	152			153					68				2,622		
1989-B			1,223	566	164	156	4		74					17	9	4	47	2,264		
1990-A	3,956	17,191	889	206	37	69		6	12									1,219	0.07	0.05
1992-B	3,467	16,658	844	159	104	454		15	7					27		35		1,645	0.10	0.05
1993-A	1,021	5,940	656	19		26												701	0.12	0.11
1994-A	2,941	15,186	824	779	103	81	28		59		8	19		9				1,910	0.13	0.05
2000-B	2,193	11,943	1,843	334	56	112	12	4	22			10	3	21		15		2,432	0.20	0.15
2005-A	4,233	20,556	4,543	674	54	41	13		40					38		74		5,477	0.27	0.22
2007-A	2,869	15,120	1,938	446	56	129			11							46		2,626	0.17	0.13
2011-A	2,804	13,769	1,247	1,422		172					32			22				2,895	0.21	0.09
2014-C	2,370	11,711	1,789	338	19	245	20				19			20		8		2,458	0.21	0.15
2016-C*	2,270	11,605	1,236			33					33			32		223		1,557	0.13	0.11

A- Kreher Park Boat Launch, Asland Marina, Second Landing Boat Launch.

B- Kreher Park Boat Launch, Ashland Marina.

C- Kreher Park Boat Launch, Ashland Marina, Second Landing Boat Launch, Anglers All Boat Launch, Hot Pond Boat Launch, Short Bridge Boat Launch.

C*- Kreher Park Boat Launch, Ashland Marina, Second Landing Boat Launch, Anglers All Boat Launch, Hot Pond Boat Launch, Short Bridge Boat Launch.(June-Aug)

**TABLE 14
WISCONSIN'S LAKE SUPERIOR. PRIVATE OPEN WATER-COLD FISHERY HARVEST 1988 - 2016.
SAXON HARBOR**

YEAR	ANGL		LAKE	COHO	CHINOOK	BROWN	SPLAKE	RAINB.	ATLAN.	FATS	WHITE	HERR	NOP	WAE	TOTAL	HARVEST RATE	
	TRPS	HOURS	TROUT	SALMON	SALMON	TROUT		TROUT	SALMON		TROUT				FISH	HARVEST	FISH/HOUR
1988			2,384	1,126	77	6	11	72							3,676		
1989			3,327	1,131	37	43		89							4,627		
1990	2,898	14,085	2,525	240	115	5		6							2,891	0.21	0.18
1991	3,256	17,157	1,735	527	74	75		5		3					2,419	0.14	0.10
1992	2,242	10,257	1,240	188	28	18									1,474	0.14	0.12
1993	4,020	21,627	2,234	422	210	25				11		8			2,910	0.13	0.10
1994	4,462	23,423	2,962	702	80	46					2				3,792	0.16	0.13
1995	3,587	17,714	1,631	801	30	20			4	71					2,557	0.14	0.09
1996	3,015	15,566	1,776	294	64	15				109	6				2,264	0.15	0.11
1997	4,510	22,653	3,271	1,102	228	42	4	7		103		38			4,795	0.21	0.14
1998	3,454	17,921	2,889	226	37	98	3	13		47		8	6		3,327	0.19	0.16
1999	3,641	16,196	2,224	1,653	346	153	3	7		16	9	3		36	4,450	0.27	0.14
2000	3,758	18,436	2,313	560	157	89	6			5					3,130	0.17	0.13
2001	3,391	17,358	2,593	569	94	234				5				4	3,499	0.20	0.15
2002	3,708	15,791	1,968	270	52	50		9		4	12	5		101	2,471	0.16	0.12
2003	3,308	16,152	2,606	286	68	37				6	71	7			3,081	0.19	0.16
2004	4,976	23,479	4,843	567	323	52		6							5,791	0.25	0.21
2005	4,882	22,185	3,844	321	88	39		14		18		9			4,333	0.20	0.17
2006	3,607	17,993	2,407	310	43	90	24	5		3				61	2,943	0.16	0.13
2007	3,882	19,571	2,003	749	149	132		17				7			3,057	0.16	0.10
2008	3,469	16,396	1,969	356	47	117	4					2	5	16	2,516	0.15	0.12
2009	3,200	15,394	1,871	159	53	69		3		68					2,223	0.14	0.12
2010	3,498	17,946	2,079	859	119	15		4				1			3,077	0.17	0.12
2011	2,387	13,168	1,761	766	27	69	2	9		16		8			2,658	0.20	0.13
2012	2,929	14,847	2,202	871	14	76				3		13	17		3,196	0.22	0.15
2013	2,231	11,147	1,541	558	117	96						16			2,328	0.21	0.14
2014	2,619	12,858	3,491	125	8	68				6					3,698	0.29	0.27
2015	840	4,063	291	175	37	80						13			596	0.15	0.07
2016*	1,236	6,385	421	372	9	119	8	5				9			943	0.15	0.07

2016* = only surveyed from March 11, 2016 - July 11, 2016. major storm/flood destroyed harbor and shut down access.

TABLE 15
PERCENT HARVEST OF NATIVE LAKE TROUT BY AREA, 1990 - 2016.
OPEN WATER COLD PRIVATE.

YEAR	ASHLAND	BAYFIELD	CORNUCOPIA/	LITTLE	RED	SAXON	SUPERIOR	WASHBURN
			PORT WING	SAND BAY	CLIFF			
1990			67.2			95.5	27.0	
1991			36.1			94.9	25.8	85.8
1992			66.8			92.0	25.3	
1993			49.8			97.4	40.6	
1994			49.4			98.0	48.8	
1995			72.1			94.3	46.9	65.2
1996			75.6			98.1	57.0	80.9
1997			44.4			96.9	56.3	46.0
1998			45.6			98.8	57.8	52.8
1999			57.9			96.3	49.4	72.8
2000	90.5	94.0	66.7	94.0		96.4	44.4	87.8
2001			68.8			99.3		88.3
2002			72.8			99.2	64.7	86.4
2003			80.1			99.2	60.3	90.7
2004			85.2			99.2	75.7	95.9
2005	98.6					99.9	75.1	97.9
2006			86.9			100.0	67.1	97.2
2007	96.0	99.7		94.3	95.9	99.7	67.1	99.5
2008			78.5			98.9	63.1	98.0
2009		97.0			100.0	99.6	67.4	98.7
2010			84.2			99.3	70.0	97.3
2011	96.9					99.8	75.5	97.6
2012		98.7		94.6	100.0	99.4	81.1	81.1
2013			76.0			100.0	80.8	99.7
2014	98.6					99.8	87.9	99.6
2015		100.0		95.8	98.3	97.7	80.7	97.9
2016	100.0	84.8	89.7	100.0	100.0	100.0	83.8	99.1

**TABLE 16
WISCONSIN'S LAKE SUPERIOR. OPEN WATER COLD PRIVATE ESTIMATED HARVEST 2000 - 2016.**

YEAR	LAKE	COHO	CHINOOK	BROWN		RAINB.	ATL.	BROOK		WHITE				PINK						TOTAL
	TROUT	SALMON	SALMON	TROUT	SPLAKE	TROUT	SAL.	TROUT	FATS	FISH	HERR	MULE	BURBOT	SAL.	MUSKY	NOP	SMB	WAE	YEP	HRVST
2000-E	14,001	3,596	1,219	1,227	374	101	18	18	150	25	12					138		220		21,099
2001-F	9,339	2,230	552	732	158	127			59	9						71		53		13,330
2002-D	9,954	3,223	1,492	441	87	75			371	12	5	21				63		2,271	102	18,117
2003-D	8,647	1,242	1,012	336	66	51			163	85	34					68		2,474		14,178
2004-D	12,797	2,793	1,231	453	72	132		12	669							26		1,804		19,989
2005-G	13,877	2,551	716	271	132	56			61		16					86		793		18,559
2006-D	7,204	1,751	368	480	99	97			409	22				33		33		403		10,899
2007-H	11,428	5,595	952	1,634	79	80		20	72		7					18		638		20,523
2008-D	7,948	2,777	925	746	85	56			215		15					34		1,174		13,975
2009-I	9,128	1,738	463	728	86	36		16	143	5						13		912		13,268
2010-D	8,335	8,556	916	591	89	116			240	3	15			34		51		518	4	19,468
2011-G	8,204	6,037	423	948	119	82		2	137	22	13					115		142		16,244
2012-J	11,543	6,673	597	1,654	186	98		10	107	376	19					93		144		21,500
2013-D	5,613	5,203	983	1,499	22	90			89	977	22					64		527		15,089
2014-K	8,611	1,217	166	1,016	24	54			90	603	10					33		165	46	12,035
2015-J	8,577	3,271	478	2,589	206	34			448	197	26					114		511		16,451
2016-J	6,578	2,906	294	2,866	565	74			99	208	9		16			67		560		14,242

- A - ASHLAND(KREHER PARK, MARINA), CORN./PORT WING, SAXON SUPERIOR, WASHBURN.
- B - ASHLAND(KREHER PARK, MARINA, SECOND LAND.), CORN./PORT WING, SAXON, SUPERIOR, WASHBURN.
- C - ASHLAND(KREHER PARK, MARINA, SECOND LAND.), BAYFIELD, CORN./PORT WING, SAXON, SUPERIOR, WASHBURN.
- D- CORN./PORT WING, SAXON, SUPERIOR, WASHBURN.
- E- ASHLAND(KREHER PARK, MARINA), BAYFIELD, CORN./PORT WING, SAXON, SUPERIOR, WASHBURN.
- F- CORN./PORT WING, SAXON, WASHBURN.
- G- ASHLAND(KREHER PARK, MARINA, SECOND LAND.), SAXON, SUPERIOR, WASHBURN.
- H- ASHLAND(KREHER PARK, MARINA, SECOND LAND.),BAYFIELD, LITTLE SAND BAY, RED CLIFF, SAXON, SUPERIOR, WASHBURN.
- I- BAYFIELD, RED CLIFF, SAXON, SUPERIOR, WASHBURN.
- J-BAYFIELD, LITTLE SAND BAY, RED CLIFF, SAXON, SUPERIOR, WASHBURN
- K- ASHLAND(KREHER PARK, MARINA, SECOND LAND. LAUNCH, ANGLERS ALL LAUNCH, HOT POND LAUNCH, SHORT BRIDGE LAUNCH), SAXON, SUPERIOR, WASHBURN.

TABLE 17
LAKE TROUT HARVEST RATES (LAKE TROUT PER ANGLER HOUR)
JUNE - AUGUST BY AREA, 1990 - 2016. OPEN WATER COLD PRIVATE.

YEAR	ASHLAND	BAYFIELD	CORNUCOPIA/ PORT WING	LITTLE SAND BAY	RED CLIFF	SAXON HARBOR	SUPERIOR	WASHBURN
1990	--	NS	0.04	NS	NS	0.20	0.08	0.08*
1991	NS	NS	0.08	NS	NS	0.12	0.06	0.09*
1992	--	NS	0.10	NS	NS	0.10	0.06	0.08
1993	--	NS	0.06	NS	NS	0.12	0.06	0.08
1994	--	--	0.06	--	NS	0.15	0.04	0.06
1995	NS	NS	0.04	NS	NS	0.12	0.06	0.09
1996	NS	NS	0.08	NS	NS	0.12	0.04	0.12
1997	NS	NS	0.07	NS	NS	0.17	0.04	0.15
1998	NS	NS	0.13	NS	NS	0.28	0.05	0.14
1999	NS	NS	0.12	NS	NS	0.20	0.07	0.09
2000	0.22	0.11	0.14	NS	NS	0.17	0.10	0.12
2001	NS	NS	0.17	NS	NS	0.18	NS	0.10
2002	NS	NS	0.10	NS	NS	0.14	0.07	0.08
2003	NS	NS	0.11	NS	NS	0.16	0.06	0.08
2004	NS	NS	0.12	NS	NS	0.24	0.06	0.12
2005	0.25	NS	NS	NS	NS	0.18	0.10	0.14
2006	NS	NS	0.09	NS	NS	0.15	0.08	0.08
2007	0.15	0.11	NS	0.14	NS	0.14	0.10	0.08
2008	NS	NS	0.11	NS	NS	0.13	0.08	0.10
2009	NS	0.09	NS	NS	0.18	0.14	0.09	0.09
2010	NS	NS	0.07	NS	NS	0.13	0.09	0.09
2011	0.14	NS	NS	NS	NS	0.17	0.11	0.09
2012	NS	0.19	NS	0.13	0.14	0.19	0.02	0.13
2013	NS	NS	0.10	NS	NS	0.15	0.07	0.10
2014	0.19	NS	NS	NS	NS	0.27	0.08	0.16
2015	NS	0.08	NS	0.05	0.08	0.11	0.14	0.04
2016	0.19	0.05	0.10	0.10	0.10	0.15	0.07	0.08

* WASHBURN AND BAYFIELD ROUTES COMBINED

TABLE 18

ESTIMATED ANGLER EFFORT (ANGLER TRIPS AND ANGLER HOURS) BY AREA IN WISCONSIN WATERS OF LAKE SUPERIOR, OPEN WATER COOL PRIVATE, 1994-2016.

	ANGLER TRIPS						YEAR TOTAL	ANGLER HOURS						YEAR TOTAL	
	ASHLAND	BAYFIELD	CORN. - PORT WING	SAXON	SUPERIOR	WASHBURN		ASHLAND	BAYFIELD	CORN. - PORT WING	SAXON	SUPERIOR	WASHBURN		
1994		168					168		1,070						1,070
1995							-								-
1996							-								-
1997							-								-
1998							-								-
1999							-								-
2000	2,422	14		15	4,673	1,166	8,290	11,348	60	158	14,674	4,675			30,915
2001						789	789					3,018			3,018
2002				36	8,877	645	9,558			431	31,606	2,258			34,295
2003					5,508	1,267	6,775				17,813	5,483			23,296
2004					4,854	766	5,620				15,115	2,508			17,623
2005	7,577				4,300	885	12,762	35,983			9,870	3,175			49,028
2006					5,721	1,197	6,918				19,015	4,498			23,513
2007	6,303	126			5,144	1,755	13,328	29,008	944		18,230	7,849			56,031
2008					4,225	725	4,950				15,359	2,641			18,000
2009		20		12	4,737	1,047	5,816		113	87	16,880	4,410			21,490
2010					4,555	889	5,444				9,612	3,567			13,179
2011	7,136				3,069	1,257	11,462	33,222			6,997	4,865			45,084
2012		-			2,307	1,251	3,558		-		4,677	5,330			10,007
2013					6,380	911	7,291				13,167	3,646			16,813
2014	7,896			12	6,410	1,327	15,645	42,489		88	23,020	6,080			71,677
2015		98		18	4,075	1,256	5,447		812	98	13,067	5,131			19,108
2016	6,585	-	116		3,959	1,052	11,712	33,175	-	461	16,439	4,088			54,163
AVE	6,320	61	116	19	4,925	1,070		30,871	428	461	172	15,346	4,307		

2016 - ASHLAND, CORNUCOPIA / PORT WING JUNE - AUG DATA ONLY.

TABLE 19

WISCONSIN'S LAKE SUPERIOR. PRIVATE OPEN WATER-COOL FISHERY HARVEST 1988 - 2016.

ASHLAND

YEAR	ANGL	ANGL	LAKE	COHO	CHINOOK	BROWN	WHITE						BLK	ROCK				TOTAL	HARVEST	
	TRPS	HOURS	TROUT	SALMON	SALMON	TROUT	SPLAKE	FISH	BURBOT	NOP	SMB	WAE	YEP	CRP	BASS	PSEED	BLG	BLHD	HARVEST	FISH/HOUR
2000-B	2,422	11,348	15	4		10		10		125		459	17						640	0.06
2005-A	7,577	35,983		26		48				276		2243	508		77			57	3,235	0.09
2007-A	6,303	29,008	15			29				18		469	1363	262	216			18	2,390	0.08
2011-A	7,136	33,222				10				188		982	2,363	17	91		42		3,693	0.11
2014-C	7,896	42,489		12		35				365		1,432	413	32	19		11		2,319	0.05
2016-C*	6,585	33,175	17			32				337		1,979	546	17	321	718		42	4,009	0.12

A- Kreher Park Boat Launch, Asland Marina, Second Landing Boat Launch.

B- Kreher Park Boat Launch, Ashland Marina.

C- Kreher Park Boat Launch, Ashland Marina, Second Landing Boat Launch, Anglers All Boat Launch, Hot Pond Boat Launch, Short Bridge Boat Launch.

C*- Kreher Park Boat Launch, Ashland Marina, Second Landing Boat Launch, Anglers All Boat Launch, Hot Pond Boat Launch, Short Bridge Boat Launch.(June-Aug ONLY)

**TABLE 20
WISCONSIN'S LAKE SUPERIOR. PRIVATE OPEN WATER-COOL FISHERY HARVEST 1988 - 2016.
PORT OF SUPERIOR**

YEAR	ANGL TRPS	ANGL HOURS	LAKE TROUT	COHO SALMON	CHINOOK SALMON	BROWN TROUT	SPLAKE	WF	BURBOT	NOP	SMB	WAE	YEP	BLK CRP	CARP	ROCK BASS	BLH/CTF	DRUM	WPERCH	TOTAL HARVEST	HARVEST RATE FISH/HOUR	
2000	4,673	14,674	9	9						79			15							112	0.01	
2001*	NO CREEL SURVEY CONDUCTED DURING 2001.																				0	
2002	8,877	31,606	26							76		6,455	65	12	6					6,640	0.21	
2003	5,508	17,813								69		4,936	69			31	8			5,113	0.29	
2004	4,854	15,115								34		2,350	34	9	8		22			2,457	0.16	
2005	4,300	9,870								78		1,469	12	46						1,605	0.16	
2006	5,721	19,015								44		2,934	127	29		47	15	18		3,214	0.17	
2007	5,144	18,230								72		2,687	180	74		2	2			3,017	0.17	
2008	4,225	15,359	55							57		1,428	83	40		3	15	6		1,687	0.11	
2009	4,737	16,880	62	5						46		1,820	131	17		29	43			2,153	0.13	
2010	4,555	9,612								27		670	36	20		4	16			773	0.08	
2011	3,069	6,997								29		411	58	2			4			504	0.07	
2012	2,307	4,677								3	8	198	6	12			2			229	0.05	
2013	6,380	13,167	6	7	34					35		2,473	73	35		38	10			2,711	0.21	
2014	6,410	23,020	23	5		9				37		2,737	100	120						3,031	0.13	
2015	4,075	13,067								68		1,522	104	90	10	7	21		7	1,829	0.14	
2016	3,959	16,439	7							52		956	78	107		5				1,205	0.07	

**TABLE 21
WISCONSIN'S LAKE SUPERIOR. PRIVATE OPEN WATER-COOL FISHERY HARVEST 1992 - 2016.
WASHBURN**

YEAR	ANGL TRPS	ANGL HOURS	LAKE TROUT	COHO SALMON	CHINOOK SALMON	BROWN TROUT	SPLAKE	WHITE FISH	BURBOT	NOP	SMB	WAE	YEP	BLK CRP	ROCK BASS	PSEED	BLG	BLHD	TOTAL HARVEST	HARVEST RATE FISH/HOUR
2000	1,166	4,675	10	5				5		150		73	5		5				253	0.05
2001	789	3,018								97		399	6						502	0.17
2002	645	2,258								72		112							184	0.08
2003	1,267	5,483								5		48	5						58	0.01
2004	766	2,508								9		44							53	0.02
2005	885	3,175								36		127	8						171	0.05
2006	1,197	4,498				11	8	11		101		69	338						538	0.12
2007	1,755	7,849				20				70		73	73		12				248	0.03
2008	725	2,641		18		19				12		67							116	0.04
2009	1,047	4,410								10		56							66	0.01
2010	889	3,567										31							31	0.01
2011	1,257	5,865						5		141		126	60						332	0.06
2012	1,251	5,330								272		78	80						430	0.08
2013	911	3,646								57		38	21						116	0.03
2014	1,327	6,080				21			14	29		163	4						231	0.04
2015	1,256	5,131				9				37		121	17						184	0.04
2016	1,052	4,088								97		186							283	0.07

**TABLE 22
WISCONSIN'S LAKE SUPERIOR. PRIVATE OPEN WATER-COOL FISHERY HARVEST 1992 - 2016.
CORNUCOPIA / PORT WING**

YEAR	ANGL TRPS	ANGL HOURS	LAKE TROUT	COHO SALMON	CHINOOK SALMON	BROWN TROUT	SPLAKE	WHITE FISH	BURBOT	NOP	SMB	WAE	YEP	BLK CRP	ROCK BASS	PSEED	BLG	BLHD	TOTAL HARVEST	HARVEST RATE FISH/HOUR
2000	53	180																	0	0.00
2001	45	129								10									10	0.08
2002	21	101								14									14	0.14
2003	210	936	14		10					19		28							71	0.08
2004	221	1,112	84							23		16							123	0.11
2006	106	273																	0	0.00
2008	173	778								9									9	0.01
2010	124	478								54									54	0.11
2013	58	264								11									11	0.04
2016*	116	461										21							21	0.05

2016* JUNE - AUGUST ONLY

**TABLE 23
WISCONSIN'S LAKE SUPERIOR CHARTER EFFORT, HARVEST RATES AND LAKE TROUT
HARVEST RATES, 1973-2016.**

YEAR	ACTIVE GUIDES	ANGLER TRIPS	ANGLER HOURS	# OF LAKE TROUT	COHO SALMON	CHINOOK SALMON	BROWN TROUT	RAINBOW TROUT	SPLAKE	ATL. SALMON	PINK SALMON	FATS	WAL	NORTH. PIKE	BROOK TROUT	YEP	HERR	WF	LNS	BURBOT	OTHER	TOTAL				
																						HARVEST	FISH/HOUR	LT/HOUR		
1973	25	3,907	26,695	4,108																				0.15		
1974	24	2,986	19,685	2,423																				0.12		
1975	19	3,305	21,765	3,836																				0.18		
1976	21	2,566	16,408	2,218	257	57	159	37													2	2,730	0.17	0.14		
1977	19	2,611	16,233	2,442	163	166	110	83													13	2,977	0.18	0.15		
1978	15	2,988	19,691	3,046	843	144	144	52													88	4,317	0.22	0.15		
1979	13	2,711	16,232	3,537	231	49	205	60													3	4,085	0.25	0.22		
1980	14	3,529	22,247	4,798	538	289	96	53	60												62	5,896	0.27	0.22		
1981	15	2,781	18,019	3,246	405	85	80	59	42												10	3,927	0.22	0.18		
1982*	18	3,151	20,641	5,302	291	15	31	40	27													40	5,746	0.28	0.26	
1983*	20	3,377	21,876	5,531	676	260	65	79	37													26	6,674	0.31	0.25	
1984	29	3,140	20,458	5,355	389	150	29	54	58													49	6,084	0.30	0.26	
1985	31	3,546	22,817	6,723	524	552	29	51	37													53	7,969	0.35	0.29	
1986	32	3,173	19,238	3,952	720	301	72	32	29				30									8	5,144	0.27	0.21	
1987	42	4,100	25,782	5,432	520	458	72	59	38				9									5	6,593	0.26	0.21	
1988	45	4,541	28,190	5,149	850	576	81	48	23	2			7		1								6,737	0.24	0.18	
1989	49	5,174	33,447	4,867	1761	684	145	92	31	12			26		1		1	2		1			7,623	0.23	0.15	
1990	50	4,917	30,313	4,098	459	452	125	25	10	5			69		2	25							5,270	0.17	0.14	
1991	46	4,223	24,937	4,268	848	336	131	20	6	9		4	616	3				2	4				6,247	0.25	0.17	
1992	40	3,337	19,663	3,723	312	305	135	13	10	8		3	170	7				1					4,687	0.24	0.19	
1993	38	3,366	19,882	3,635	269	400	73	7	4	4		1	145	1				1	10				4,550	0.23	0.18	
1994	39	3,489	20,800	3,751	331	111	45	10	22	1			88	1			4	1	6		1		4,368	0.21	0.18	
1995	38	3,120	18,524	3,243	536	213	72	7	10	2			45	6	3				2				4,139	0.22	0.18	
1996	35	2,489	14,807	2,780	368	196	33	3	19				63	4				2	1				3,469	0.23	0.19	
1997	30	2,344	14,350	3,028	280	266	41	9	11	2	2	13	60					1					3,713	0.26	0.21	
1998	22	2,289	13,195	3,360	228	194	32	6	5	1			47	5	4				1				3,883	0.29	0.25	
1999	26	2,213	13,197	2,931	542	219	61	23	30	7	6		35	4	1			1					3,860	0.29	0.22	
2000	28	2,117	11,929	3,353	174	178	75	8	4	2	2		47	5									3,848	0.32	0.28	
2001	23	1,794	10,231.5	3,008	229	65	51	14	7				31	3									3,408	0.33	0.29	
2002	23	2,374	14,089	3,625	425	249	69	31	9	3			123		1								4,535	0.32	0.26	
2003	26	2,537	14,936	3,425	86	164	41	8	6	1		4	429	3	2					1			4,170	0.28	0.23	
2004	27	2,510	14,614	3,967	208	242	48	16	4	3		1	81	2			1						4,573	0.31	0.27	
2005	27	2,435	14,124.5	3,925	197	175	67	18	4				54	4				1	1				4,446	0.31	0.28	
2006	24	1,774	10,342	2,496	99	67	42	8	8	2		4	26	1									2,753	0.27	0.24	
2007	25	1,422	8,571.5	1,972	252	54	60	9	6				13	2									2,368	0.28	0.23	
2008	22	1,320	7,961.5	1,813	134	46	46	7	9			1	4					1					2,061	0.26	0.23	
2009	25	1,459	8,680	2,393	58	21	26	1	1					1				1					2,502	0.29	0.28	
2010	29	1,399	8,353	1,911	502	245	38	5	8				2	1									2,712	0.32	0.23	
2011	26	1,281	7,397	1,865	364	28	62	5	7				1	2	2								2,336	0.32	0.25	
2012	28	1,285	7,350.5	2,229	408	85	59	20	3				7	1					1				2,813	0.38	0.30	
2013	29	1,417	8,185	1,836	575	126	119	13	1				18	3									2,691	0.33	0.22	
2014	27	1,144	6,148	1,986	70	16	151	1	2				1										2,227	0.36	0.32	
2015	24	1,114	5,879.5	1,018	86	18	163	1	21				9					1					1,317	0.22	0.17	
2016	27	1,363	6,958	1,765	112	14	111	3	16				19										2,040	0.29	0.25	
TOTAL		118,118	724,842	149,369	16,320	8,271	3,294	1,090	625	64	10	31	2,275	59	17	26	13	28	2	2	359					
AVE	28	2,685	16,474	3,395																						

* 1982 AND 1983 FIGURES INCLUDE SOME MINNESOTA AND MICHIGAN TRIPS LANDING IN WISCONSIN PORTS.

TABLE 24

WISCONSIN'S LAKE SUPERIOR CHARTER FISHERY HARVEST 1988 - 2016.
ASHLAND, BAYFIELD, WASHBURN, RED CLIFF, LaPOINTE, PORT SUPERIOR

YEAR	# OF ACTIVE GUIDES	# OF ANGLERS	# OF ANGLER HOURS	LAKE TROUT	COHO	CHINOOK	BROWN	RAINBOW	SPLAKE	ATL.	FATS	WAL	NORTH	BROOK	YEP	HERR	WF	LNS	TOTAL HARVEST	HARVEST RATE		
					SALMON	SALMON	TROUT	TROUT		SALMON			PIKE	TROUT						FISH/HOUR	LT/HOUR	
1988	10	2,194	14,449	1,868	356	163	64	2	23										2,476	0.17	0.13	
1989	14	2,372	16,518	2,127	737	91	42	12	31	3					1		2		3,047	0.18	0.13	
1990	15	2,233	14,647	1,590	183	50	28	5	10	2				2	25				1,895	0.13	0.11	
1991	15	2,208	13,448	2,158	502	96	84	2	6	4	4		2			2	4		2,864	0.21	0.16	
1992	13	1,758	11,455	1,938	136	107	105	2	10	4	3		6			1			2,312	0.20	0.17	
1993	16	1,755	10,800	2,012	115	55	46	1	4	1		1	1			1	10		2,247	0.21	0.19	
1994	13	1,761	10,404	1,818	172	24	22	2	22	1		1					6		2,068	0.20	0.17	
1995	17	1,708	10,434	1,891	254	25	31	1	10	1		4	3	3			2		2,225	0.21	0.18	
1996	18	1,418	8,470	1,655	150	17	19	1	19				1			2	1		1,865	0.22	0.20	
1997	14	1,250	7,502	1,908	93	23	8	1	11	2	13								2,059	0.27	0.25	
1998	10	1,126	6,322	1,683	22	21	6		5			7	5	4				1	1,754	0.28	0.27	
1999	13	1,121	6,234	1,650	210	66	20	5	25	6		15	4	1			1		2,003	0.32	0.26	
2000	15	1,365	7,360	2,146	103	20	33	1	4			30	5						2,342	0.32	0.29	
2001	13	1,248	7,089.5	2,146	125	20	28	6	7			6	3						2,341	0.33	0.30	
2002	14	1,196	6,529	1,711	184	20	40	3	9	3		4							1,975	0.30	0.26	
2003	14	1,151	6,498.5	1,550	41	17	18	3	6	1	4	4	3	2					1,649	0.25	0.24	
2004	14	1,133	6,224	1,823	90	42	34	6	4	2	1								2,002	0.32	0.29	
2005	14	1,162	6,619.5	1,989	77	27	37	11	4			3	3				1	1	2,153	0.33	0.30	
2006	12	855	5,043	1,444	71	4	25	5	8	2	4	2	1						1,566	0.31	0.29	
2007	11	871	5,004.5	1,206	163	20	51	4	6			3							1,453	0.29	0.24	
2008	8	676	3,914.5	873	76	11	38	3	9		1							1	1,012	0.26	0.22	
2009	11	780	4,172	1,266	38	7	25	1	1				1					1	1,340	0.32	0.30	
2010	11	911	5,265	1,267	304	218	24	4	8			1	1						1,827	0.35	0.24	
2011	12	786	4,324.5	1,183	261	5	42	1	7			1		2					1,502	0.35	0.27	
2012	11	767	4,020.5	1,371	280	11	27	8	3			7	1						1,708	0.42	0.34	
2013	16	873	4,906.5	1,157	430	48	112	9	1			4	3						1,764	0.36	0.24	
2014	15	799	4,114.5	1,417	57	1	136		2										1,613	0.39	0.34	
2015	13	845	4,317	632	50		155	1	21			3					1		863	0.20	0.15	
2016	10	1,097	5,429	1,454	99	5	102	2	16										1,678	0.31	0.27	
TOTAL		37,419	221,514.5	46,933	5,379	1,214	1,402	102	292	32	30	96	43	16	25	11	27	1	55,603	0.25	0.21	
AVE	13	1,290	7,638	1,618																		

TABLE 25

WISCONSIN'S LAKE SUPERIOR CHARTER FISHERY HARVEST 1988 - 2016.
SUPERIOR

YEAR	# OF ACTIVE GUIDES	# OF ANGLERS	# OF ANGLER HOURS	LAKE TROUT	COHO	CHINOOK	BROWN	RAINBOW	SPLAKE	ATL.	PINK	WAL	NORTH	YEP	HERR	LNS	BURBOT	TOTAL HARVEST	HARVEST RATE			
					SALMON	SALMON	TROUT	TROUT		SALMON	PIKE		FISH/HOUR						LT/HOUR			
1988	26	1,406	8,145	2,133	191	353	5	36		2									2,720	0.33	0.26	
1989	28	1,694	10,304.5	1,742	630	490	48	59		9		15					1		2,994	0.29	0.17	
1990	26	1,505	9,138	1,476	145	342	34	8		1		55							2,061	0.23	0.16	
1991	24	1,159	6,905	1,263	165	188	15	9		4		580							2,224	0.32	0.18	
1992	18	853	4,305	927	64	146	7	4		1		147							1,296	0.30	0.22	
1993	15	1,045	5,843	974	107	284	16	3		2		131							1,517	0.26	0.17	
1994	19	956	5,868	986	99	62	7	5				75	1		1				1,236	0.21	0.17	
1995	15	714	4,188	518	190	89	6	2				40	2						847	0.20	0.12	
1996	11	566	3,590	505	132	136		1				25							799	0.22	0.14	
1997	9	683	4,613	518	128	218	10	4			2	57							937	0.20	0.11	
1998	6	513	3,415	525	105	101	8	5		1		30							775	0.23	0.15	
1999	7	595	3,830	521	199	81	7	4	3	1	6	9							831	0.22	0.14	
2000	7	289	1,884	307	48	79	8	2		2	2	16							464	0.25	0.16	
2001	5	36	181	43	4	5	1	2				17							72	0.40	0.24	
2002	4	652	4,521	986	151	154	10	12				88							1,401	0.31	0.22	
2003	6	874	5,367.5	1,029	21	118	13	1				416					1		1,599	0.30	0.19	
2004	6	854	5,279	1,352	49	91	3	5		1		81	2	1					1,585	0.30	0.26	
2005	5	753	4,359	1,119	73	102	6	3				47	1						1,351	0.31	0.26	
2006	5	541	3,116	596	13	23	1	1				21							655	0.21	0.19	
2007	6	241	1,607	367	52	30	2	1				8	2						462	0.29	0.23	
2008	6	302	2,011	442	29	19	1					3							494	0.25	0.22	
2009	6	354	2,409	640	13	8													661	0.27	0.27	
2010	11	158	921	145	28	13						1							187	0.20	0.16	
2011	7	273	1,601	274	73	14	11	2					2						376	0.23	0.17	
2012	8	130	835	109	47	35	6	2											199	0.24	0.13	
2013	7	349	2,064.5	341	93	77	5	3				14							533	0.26	0.17	
2014	6	138	743	143	6	12	1					1							163	0.22	0.19	
2015	6	240	1,363.5	354	18	18						6							396	0.29	0.26	
2016	6	241	1,382.0	289	8	9	2	1				19							328	0.24	0.21	
TOTAL		18,114	109,789	20,624	2,881	3,297	233	175	3	24	10	1,902	10	1	1	1	1		29,163	0.27	0.19	
AVE	11	625	3,786	711																		

TABLE 26
WISCONSIN'S LAKE SUPERIOR CHARTER FISHERY HARVEST 1988 - 2016.
SAXON

YEAR	# OF ACTIVE GUIDES	# OF ANGLERS	# OF ANGLER HOURS	LAKE TROUT	COHO	CHINOOK	BROWN	RAINBOW	HERR	WF	TOTAL	HARVEST RATE	
					SALMON	SALMON	TROUT	TROUT			HARVEST	FISH/HOUR	LT/HOUR
1988	2	232	1,601	379	47	2		1			429	0.27	0.24
1989	2	270	1,840	436	70	13	1	3			523	0.28	0.24
1990	2	312	1,705	314	13	3	1				331	0.19	0.18
1991	2	183	1,323	308	18	3	3	1			333	0.25	0.23
1992	2	145	943	273	9		3	1			286	0.30	0.29
1993	2	184	1,316	307	13	2	1				323	0.25	0.23
1994	2	298	1,940	487	21	3		1			512	0.26	0.25
1995	2	280	1,886	382	32	5					419	0.22	0.20
1996	2	160	1,000	237	20	2	3				262	0.26	0.24
1997	2	124	772	222	2		1		1		226	0.29	0.29
1998	3	233	1,363	385	2		2				389	0.29	0.28
1999	2	156	1,100	249	20	2					271	0.25	0.23
2000	2	183	1,093	296	8		3				307	0.28	0.27
2001	1	90	564	150	6		1				157	0.28	0.27
2002	1	61	341	72	4	4					80	0.23	0.21
2003	2	131	872	211	3	3		1			218	0.25	0.24
2004	2	169	1,148	341	22	5	1	2			371	0.32	0.30
2005	3	226	1,437	347	4	1					352	0.24	0.24
2006	3	147	961	198	2			1			201	0.21	0.21
2007	4	194	1,235	219	11			1			231	0.19	0.18
2008	4	237	1,539	312	5		2				319	0.21	0.20
2009	4	232	1,569	340	2						342	0.22	0.22
2010	5	240	1,553	397	67	4	5	1			474	0.31	0.26
2011	5	161	1,077.5	303	20	2					325	0.30	0.28
2012	6	258	1,594	480	26	4	1	5		1	517	0.32	0.30
2013	5	194	1,202	332	48	1	2	1			384	0.32	0.28
2014	5	191	1,190.5	390	5	3	9	1			408	0.34	0.33
2015	4	24	159	32			2				34	0.21	0.20
2016	4	17	109	20			7				27	0.25	0.18
TOTAL AVE	3	184	1,187	290	500	62	48	20	1	1	9,051	0.26	0.24

TABLE 27
WISCONSIN'S LAKE SUPERIOR CHARTER FISHERY HARVEST 1988 - 2016.
CORNUCOPIA / PORT WING

YEAR	# OF ACTIVE GUIDES	# OF ANGLERS	# OF ANGLER HOURS	LAKE TROUT	COHO	CHINOOK	BROWN	RAINBOW	SPLAKE	ATL.	FATS	WAL	NORTH.	BROOK	BURBOT	TOTAL	HARVEST RATE	
					SALMON	SALMON	TROUT	TROUT		SALMON			PIKE	TROUT	BURBOT	HARVEST	FISH/HOUR	LT/HOUR
1988	7	709	3,995	769	256	58	12	9				7		1		1,112	0.28	0.19
1989	5	838	4,784.5	562	324	90	54	18				11				1,059	0.22	0.12
1990	7	867	4,823	718	118	57	62	12		2		14				983	0.20	0.15
1991	5	673	3,261	539	163	49	29	8		1		36	1			826	0.25	0.17
1992	7	581	2,960	585	103	52	20	6		3		23	1			793	0.27	0.20
1993	5	382	1,923	342	34	59	10	3		1	1	13				463	0.24	0.18
1994	5	474	2,588	460	39	22	16	2				12			1	552	0.21	0.18
1995	4	418	2,016	452	60	94	35	4		1		1	1			648	0.32	0.22
1996	4	345	1,747	383	66	41	11	1				38	3			543	0.31	0.22
1997	5	287	1,463	380	57	25	22	4				3				491	0.34	0.26
1998	4	417	2,095	767	99	72	16	1				10				965	0.46	0.37
1999	4	341	2,033	511	113	70	34	14	2			11				755	0.37	0.25
2000	4	280	1,592	604	15	79	31	5				1				735	0.46	0.38
2001	4	420	2,397	669	94	40	21	6				8				838	0.35	0.28
2002	4	465	2,698	856	86	71	19	16				31				1,079	0.40	0.32
2003	4	381	2,198	635	21	26	10	3				9				704	0.32	0.29
2004	5	354	1,963	451	47	104	10	3								615	0.31	0.23
2005	5	294	1,709	470	43	45	24	4				4				590	0.35	0.28
2006	4	231	1,222	258	13	40	16	1				3				331	0.27	0.21
2007	4	116	725	180	26	4	7	3				2				222	0.31	0.25
2008	4	105	497	186	24	16	5	4				1				236	0.47	0.37
2009	4	93	530	147	5	6	1									159	0.30	0.28
2010	2	90	614	102	103	10	9									224	0.36	0.17
2011	2	61	394	105	10	7	9	2								133	0.34	0.27
2012	3	130	901	269	55	35	25	5								389	0.43	0.30
2013	1	1	12	6	4											10	0.83	0.50
2014	1	16	100	36	2		5									43	0.43	0.36
2015	1	5	40	0	18		6									24	0.60	0.00
2016	1	8	38	2	5											7	0.18	0.05
TOTAL AVE	4	324	1,770	395	2,003	1,172	519	134	2	8	1	238	6	1	1			

TABLE 28
REGISTERED STURGEON SPORT HARVEST IN CHEQUAMEGON BAY, 1983-2016.

YEAR	TOTAL REPORTED HARVEST	# HARVESTED ≥ 50"	LENGTH MIN. - MAX (INCH)	AVERAGE LENGTH (INCH)
1983	2	2		55.0
1984	3	1		47.3
1985	5	3		51.8
1986	4	1		48.4
1987	0	0		--
1988	14	8		49.6
1989	11	2		46.6
1990	7	2		49.9
Sturgeon minimum size limit increased from 40" to 50" in 1991.				
1991	2	2		55.8
1992	0	0		--
1993	1	1	64.0 - 64.0	64.0
1994	0	0		--
1995	2	2	61.5 - 65.0	63.0
1996	0	0		--
1997	1	1	57.8 - 57.8	57.8
1998	1	1	54.0 - 54.0	54.0
1999	6	6	51.5 - 61.0	55.3
2000	0	0		--
2001	2	2	51.5 - 52.0	51.75
2002	3	3	50.0 - 52.5	51.5
2003**	1**	1	52.0 - 52.0	52.0
2004	4	4	54.0 - 63.5	58.6
2005	1	1	55.25 - 55.25	55.25
2006	0	0		--
2007	1	1	51.0 - 51.0	51.0
2008	2	2	50.0 - 62.0	56.0
2009	1	1	52.5 - 52.5	52.5
2010	0	0		--
2011	1	1	56.0 - 56.0	56.0
2012	4	4	51.5 - 62.0	55.25
2013	1	1	62.0 - 62.0	62.0
2014	4	4	50.5 - 55.0	52.75
2015***	12	12	51.0 - 61.75	56.8
2016	16	16	51.0 - 60.5	53.9

Sturgeon minimum size limit increased from 40" to 50" in 1991.

** The Sturgeon Harvested in 2003 was reported during Dec. 2004.

*** Harvest numbers adjusted in 2016 do to late reporting.

APPENDIX II. 2016 OPEN WATER CREEL ROUTES AND SHIFT TIMES.

ROUTE / PORT	START DATES	SHIFT TIMES	NUMBER OF NON-OVERLAPPING SHIFTS	TYPE OF CREEL	COMMENTS
ONE ROUTE: 1/2 TIME ASHLAND	JUNE 1 - AUG 31	7am-2pm, 2pm-9pm	2 WEEKEND 2 WEEKDAY	SINGLE LOOP TIME INTRVL	ONE WEEKEND DAY 2 or 3 RANDOM WKDAYS
ONE ROUTE: 1/2 TIME CORNUCOPIA (PUBLIC BOAT LAUNCH/ MARNIA. BARK BAY (BOAT LAUNCH). HERBSTER (BOAT LAUNCH). PORT WING (BOAT LAUNCH / MARNIA).	JUNE 1 - AUG 31		2 WEEKEND 2 WEEKDAY	SINGLE LOOP TIME INTERVAL	ONE WEEKEND DAY 2 or 3 RANDOM WKDAYS
ONE ROUTE: 1/2 TIME WASHBURN ONE ROUTE: 1/2 TIME BAYFIELD, LITTLE SAND BAY, RED CLIFF	WASHBURN 04/08/2016 BYF 3/25/16 LSB 3/25/16 RC 3/28/16	APRIL, SEPT: 7am-2pm, 2pm-8pm MAY-AUG: 7am-2pm, 2pm-9pm	2 WEEKEND 2 WEEKDAY	SINGLE LOOP TIME INTERVAL	BOTH WEEKEND DAYS THREE RANDOM WKDAYS
ONE ROUTE: SAXON - SAXON HARBOR BOAT LAUNCH AND MARINA. (1/2 TIME). SAXON ENDED JULY 11, MAJOR STORM/FLOOD DESTROYED HARBOR	MARCH 11 - JULY 11	WEEKEND:7am-2pm 2pm-8pm(MARCH+APRIL), 2pm-9pm(MAY-SEPT) WEEKDAY: 7am-10:30am 10:30am-2pm; 2pm-5:30pm 5:30am-8pm(MARCH+APRIL) 5:30pm-9pm(MAY-SEPT)	2 WEEKEND 4 WEEKDAY	TIME INTERVAL ONE SITE	ONE WEEKEND DAY, 2 or 3 RANDOM WKDAYS
ONE ROUTE: SUPERIOR - BARKER'S ISLAND BOAT LAUNCH, LOON'S FOOT BOAT LAUNCH. (FULL TIME).	APRIL 18	APRIL:5:30am-1pm,1pm-8:30 MAY-SEPT: 5:30am-1:30pm 1:30pm-9:30pm	2 WEEKEND 2 WEEKDAY	SINGLE LOOP TIME INTERVAL	BOTH WEEKENDS DAYS THREE RANDOM WEEKDAYS
ONE ROUTE: DEC / JAN OPEN WATER ASHLAND - WASHBURN - BODINS - BYF - RC - LSB - SAXON	DEC 1, 2015 - JAN 9, 2016	9am - 5 pm		stratified 2 counts (9am + 2pm)	BOTH WEEKENDS DAYS THREE RANDOM WEEKDAYS

OPEN WATER CREEL ENDED 9/30/16

APPENDIX III. INTERVIEW FORM.

CHECK POINT _____ DATE _____ / _____ / _____ WEEKDAY - 1 WEEKEND - 2

1 - OPEN COLD WTR	4 - ICE COOL WTR	7 - PLEASURE	FISHED IN:	TRIP:					
2 - OPEN COOL WTR	5 - ICE BOBBING	8 - SHORE ANGLER	1 - WI	4 - WI / MN					
3 - ICE SHALLOW WTR	6 - STREAM	9 - TRIBAL	2 - MN	5 - WI / MI					
			3 - MI	1 - COMPLETE 2 - INCOMPLETE					
ANGLERS IN PARTY _____			1 - RESIDENT	AREA FISHED:					
SUCCESSFUL ANGLERS _____			2 - NONRESIDENT	TIME START _____					
			3 - RES. / NON RES.	TIME END _____					
FISH SPECIES _____		# LEGAL _____	# SUBLEGAL _____						
RELEASED SPECIES _____		# LEGAL _____	# SUBLEGAL _____						
SPECIES	CODE	LENGTH	FINCLIP	TAG/COLOR	SPECIES	CODE	LENGTH	FINCLIP	TAG/COLOR

TOTAL # FISH KEPT _____ COMMENTS _____

FIN CLIP CODES: NO CLIP - 00, ADIPOSE - 01, ADLR - 02, ADRR - 03, ADLF - 04, ADRF - 05, LR - 06, RR - 07, LF - 08, RF - 09, BR - 10, RFLR - 11, BRAD - 12, D - 13, LFRR - 15, RFD - 17, LFLR - 20, DAD - 21, LFD - 23, LRD - 24, HATCHERY - 25, NO CHECK - 40, BF - 96.
SPECIES CODE: BLKCRP-005, BROOK-006, BURBOT-011, HERRING-033, FAT-34, LT-35, SPLAKE-36, NOP-43, BROWN-45, RBT-46, ROCK BASS-047, CHINOOK-48, COHO-49, PINK-51, ATL. SAL-52, SMELT-60, STURGEON-62, LMB-66, SMB-67, WF-70, MENWF-71, YEP-76, WAL-78

APPENDIX IV. 2016 ICE CREEL ROUTES AND SHIFT TIMES.

ROUTE / AREA	START DATES	SHIFT TIMES	NUMBER OF NON-OVERLAPPING SHIFTS	TYPE OF CREEL	COMMENTS
WASHBURN - BAYFIELD - RED CLIFF (BONO CREEK ACCESS/"S" CURVE - RED CLIFF) ONE ROUTE.	JAN 10 - MARCH 11	9:00am - 5:00pm	1 weekend 1 weekday	stratified 2 counts (9am + 2pm)	2 weekend shifts 3 weekday shifts

APPENDIX V.

ICE CREEL PRESSURE SHEET

DATE ____ / ____ / ____
 Month Day Year

DAY TYPE: 1 - WEEKDAY
2 - WEEKEND

TIME _____
 AIR TEMP. _____
 WINDS _____

SITE #	LOCATION	TIME	VEHICLES				COMMENTS
			RESIDENT		NON RESIDENT		
289	MA SLOWSKI BEACH						
282	PIG IRON DOCK						
256	REIS COAL DOCK						
258	KREHER PARK + MARINA						
247	11TH ave E. / WATER ST						
246	TREBAS						
245	PAMIDA PARK						
240	PAMIDA						
234	ANGLER'S ALL						
204	2nd LANDING						
301	LONG BRIDGE						
305	"S" CURVE						
307	THOMPSON PARK						
311	WEST END						
315	WASHB. MARINA						
319	WAHSB. COAL DOCK						
321	MEM. PARK						
331	BODIN RESORT						
341	SIOUX RIVER						
343	ONION R. BEACH						
345	ONION R. MOUTH						
351	PIKES BAY						
355	PORT SUPERIOR						
363	BAYFIELD						
366	ROY'S POINT						
370	RED CLIFF						
380	PA GENT GROUNDS						
390	RASPBERRY BAY						
470	ICE ROAD						
401	K'PUNKY BAY						
410	JACK STEWART						
420	KRON BEACH						
440	NE TIP MAD. ISL						
450	RUSSEL BAY						
471	O'BRIENS						
480	LaPOINTE PARK						
515	MARTENSON ROAD						
520	CORNUCOPIA						
530	ROMAN POINT						
540	BARK POINT						

APPENDIX VII.
2016 LENGTH WEIGHT EQUATIONS
DATA OBTAINED FROM VARIOUS WI DNR ASSESSMENTS.

BROWN TROUT (NATIVE + HATCHERY)

$LN(WT\ g) = -10.48348 + 2.86256 (LN\ LENGTH\ mm)$
Observations = 58

LAKE WHITEFISH

$LN(WT\ g) = -13.555573 + 3.302862 (LN\ LGTH\ mm)$
Observations = 2085

BURBOT

$LN(WT\ g) = -13.3809 + 3.2621 (LN\ LENGTH\ mm)$
Observations = 116

RAINBOW TROUT

WI DNR DATA 1984-2016
 $LN(WT\ g) = -11.2329 + 2.9618 (LN\ length\ mm)$
Observation = 26

SISCOWET LAKE TROUT (FATS)

$LN(WT\ g) = -13.60517 + 3.30327 (LN\ LENGTH\ mm)$
Observations = 265

CHINOOK SALMON

WI DNR DATA 1984-2016
 $LN(WTg) = -11.8804 + 3.0516 (LN\ length\ mm)$
Observations = 110

LAKE HERRING

$LN(WT\ g) = -12.83138 + 3.17867 (LN\ LENGTH\ mm)$
Observation = 1210

COHO SALMON

WI DNR DATA 1984-2016
 $LN(WT\ g) = -11.45184 + 2.97317 (LN\ length\ mm)$
Observation = 40

MENOMINEE WF

$LN(WT\ g) = -14.01664 + 3.38427 (LN\ LENGTH\ mm)$
Observations = 413

RAINBOW SMELT

$LN(WT\ g) = -11.38.194 + 2.87671 (LN\ LENGTH\ mm)$
Observations = 74

NORTHERN PIKE

$LN(WT\ g) = -13.1727 + 3.1905 (LN\ LENGTH\ mm)$
Observations = 21

LAKE TROUT (NATIVE)

$LN(WT\ g) = -13.293114 + 3.248879 (LN\ LENGTH\ mm)$
Observations = 2000

SPLAKE

$LN(WT\ g) = -12.26154 + 3.11796 (LN\ LENGTH\ mm)$
Observations = 72

LAKE TROUT (HATCHERY)

$LN(WT\ g) = -13.64295 + 3.30373 (LN\ LENGTH\ mm)$
Observations = 77

WALLEYE

$LN(WT\ g) = -13.26817 + 3.28578 (LN\ LENGTH\ mm)$
Observations = 55

LAKE TROUT (NATIVE AND HATCHERY)

$LN(WT\ g) = -13.312392 + 3.251904 (LN\ LENGTH\ mm)$
Observations = 2077

YELLOW PERCH

$LN(WT\ g) = -11.3372 + 3.0138 (LN\ LENGTH\ mm)$
Observations = 74

FIGURE 1. MAJOR PORTS SURVEYED AND WISCONSIN MANAGEMENT UNITS.

