

New York State Department of Environmental Conservation Division of Fish, Wildlife and Marine Resources, Region 7

Bureau of Fisheries

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Joe Martens
Commissioner

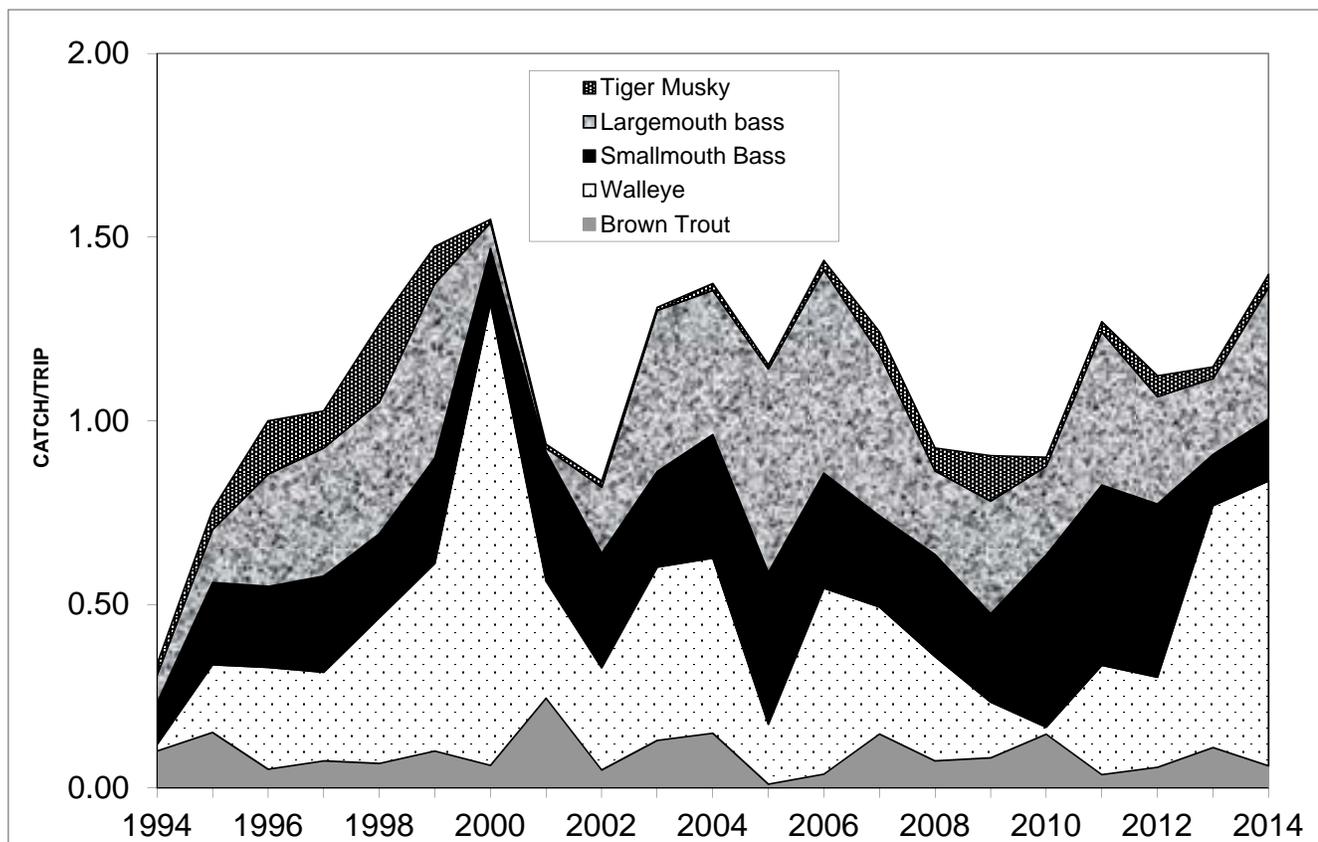
Monday, March 16, 2015

To: **Otisco Lake Volunteer Angler Diary Cooperators**

Dear Fellow Anglers:

I would like to begin by thanking you for your time and effort for recording your fishing trips in 2014. We had 16 Otisco Lake cooperators in 2014; only two less than 2013. Cooperators recorded 208 outings (an outing is a record of a cooperator's trip not including all participants), which amounted to 379 angler trips (includes all participants) totaling 1,351 hours of fishing effort. On average, it took just 2.6 hours to catch one gamefish of legal size in 2014 (see summary table). This was the second best legal gamefish catch per hour since the diary program was started on Otisco Lake! Only 2006 was better, at 2.3 hours to catch a legal gamefish. Anglers specifically targeting walleye comprised 59% of the total cooperator effort (792 out of 1,351 hours) in 2014, followed by anglers targeting tiger musky at 22% (290 out of 1,351 hours). Details on species specific catch rates and effort are included in the discussion below.

The following graph shows the long term species composition of the overall catches for all legal sized gamefish. This includes all reported trips regardless of what anglers were fishing for.



2014 was a busy year for Region 7 Fisheries on Otisco as we conducted a full Fish Community Survey (FCS). Protocol for the survey consisted of an early-June fyke netting (type of trap net), late-August gill netting, late-September seining and electrofishing surveys. In all 2,335 fish were collected (Appendix 1). Though the full report is not yet completed, and most likely will not be done till early-2016, a few details will be mentioned in the discussion below. When completed, the report will be available to view at: <http://www.dec.ny.gov/outdoor/36552.html>

Walleye

Cooperators caught an amazing 304 walleye in 2014! Of those, 294 were of legal length (18-inches or greater). This was the largest number of walleye caught by cooperators since the diary program was initiated on Otisco Lake, with the old record being the 254 walleye caught in 2013. However, it is noteworthy to mention again, that one cooperator (and their fishing partners) accounted for 206 (68%) of the record 304 walleye. So, this increase is more likely due to their skill at walleye fishing than any real change in the population. Walleye are highly prized “on the table” and cooperators harvested the majority (88%) of the legal fish caught. Five monster walleye were caught that each stretched the tape to 28 inches, while the average length of walleye caught was 22.6 inches; none of the walleye were weighed in 2014. Area 2 and Area 3 accounted for all of the walleye catch, with 144 and 160 walleye respectively. Fishing in May and June produced the most walleye with 87 and 86, respectively. Followed by August with 58 and September with 56. Fishing from a boat produced 245 of the walleye, while shore anglers contributed 59 walleye. Shore anglers held their own during September though, when the shore catch was almost double the boat catch, 37 and 19 walleye, respectively.

Anglers specifically targeting walleye caught all but one of the 304 walleye recorded. The resulting targeted catch rate was 0.38 walleye per hour (1 every 2.6 hours) which was up from last year’s 0.29 walleye per hour (1 every 3.5 hours). This was the third best targeted walleye catch rate recorded for Otisco in the last fifteen years; with only the 0.46 walleye per hour in 2006 and 0.40 walleye per hour in 2000 being better. As we’ve mentioned in the past, targeted catch rates of 0.2 and above are considered to be “very good” for New York walleye fisheries while those approaching 0.5 are considered “excellent.”

As for stocking, for those who haven’t heard, Otisco Lake was not stocked with walleye in 2014. Beginning in 2014 the Otisco Lake walleye stocking policy was changed to an every other year maintenance stocking. Therefore, the lake will be stocked this year, 2015 and then scheduled to be stocked in 2017, etc. The policy was changed to allow more waters around the state to be stocked with walleye. Note that most walleye fisheries are driven by an occasional (every 2-4 years) strong year class of fish and these strong year classes sustain the fishery during years of poor survival of young. As noted in the past, walleye are much more challenging to raise in a hatchery than trout because they require live forage. The two main methods of rearing walleye are either: 1) raising them in outdoor ponds (pond fingerlings), or 2) inside the hatchery in raceways (50-day fry and advanced fingerlings). In ponds they feed on a natural diet of zooplankton, until they reach a size of 1-1.5 inches and are stocked in June. Pond rearing works well, but you never know what you will get out of a pond until it’s drained and harvested. Rearing walleye in indoor raceways has proven to be a highly successful technique but it has some drawbacks. Walleye must be fed live brine shrimp (a food that is getting more and more expensive) for the entire 50-days and then they must be stocked out before they begin to cannibalize one another. So, even though the 50-day fry program has made more walleye available, they are still in high demand across the state. Going to the every other year maintenance stocking policy, will hopefully, help develop more walleye fisheries in the state.

The Otisco Lake walleye fishery is a very important fishery so we will be closely monitoring this new stocking policy. We have also recommend that if surplus walleye are available during the non-scheduled stocking years, that some of the surplus walleye be stocked in Otisco. During stocked years, we will assess early survival of the stocked walleye by conducting fall electrofishing surveys (as we have done in the past).

A target catch rate objective for young-of-year (YOY) walleye will be established, and if the catch rate falls below that target, we'll recommend that the lake be stocked the following "off" year. Thus, lessening the "gap" between a poor recruitment year and a non-stocking year.

Though no walleye were stocked in 2014, fall electrofishing still took place as part of the 2014 FCS. No YOY walleye were collected during this survey, which was expected since alewife predation on walleye fry is believed to be the reason we see no naturally produced fish. Overall, a total of 70 walleye were collected throughout the entire survey, with lengths ranging from 10 to 24 inches (Appendix 2). We are still in the process of aging scale samples from many of these walleye, so no age range or frequency is available at this time.

Tiger Muskellunge

In 2014, cooperators landed 61 tiger muskies with reported lengths ranging from 15 to 46 inches and an average of 30.3 inches. The 46 inch tiger was one of the largest ever reported by cooperators, another 46 incher was reported in 1999 and a 48 inch tiger was reported in 1998. Of the 61 caught in 2014, 13 were legal length (36-inches or greater) and 23 were between 30 and 36 inches. . Prior to 2013 the legal length limit had been 30-inches or greater. No tigers were kept by cooperators in 2014, a 100% release rate. Those specifically targeting tigers caught 38 of the 61 reported (62%), while anglers targeting walleye caught 15 tigers (25%). Both groups each caught 6 tigers of legal length. Anglers targeting bass or "any" warm water gamefish accounted for the other 8 tigers.

Cooperators specifically targeting tiger muskies put in 52 trips and logged 290 angler-hours. The targeted catch rate for tiger musky in 2014 was 0.13 per hour (1 every 7.7 hours). This is above the five year average of 0.11 per hour (1 every 9.1 hours). Diary data on catch rates are lacking for tiger musky but catch rates of muskellunge in popular areas from diary programs in Ontario, Canada and the St. Lawrence River, New York range anywhere from 0.04 to 0.12 fish per hour. Though tiger musky are generally believed to be "easier" to catch than muskellunge, the 2014 Otisco catch rate of 0.13 tiger musky per hour would be considered a "great" catch rate for muskellunge.

The majority (80%) of tigers caught in 2014 were landed by boat anglers, while ice fishing accounted for 13% (8 of 61), and shore anglers caught 4 tigers (7%). Four tigers were caught in Area 1(south of the causeway), but as usual the majority (93%), were caught throughout the main lake with Areas 2, 3 and 4 accounting for 21, 23 and 13, respectively. Fishing in Area 3 during May was the most productive for tigers, accounting for 13 of the 61 (21%).

Since tiger muskellunge are sterile hybrids (cross between muskellunge and northern pike), the fishery is supported entirely by stocking. Otisco Lake received the target stocking rate of 11,000 fall fingerling (9.5 inches) in mid-September. Tiger musky are highly vulnerable to predation by bass, walleye and other tigers during the first 6-8 months in the lake. Although there is no formal assessment, survival following stocking is believed to be low but variable. Despite this, a good number of tigers ultimately do well in Otisco, as evidenced by the ice fishing world record six seasons ago. This, coupled with the fact that many anglers choose to release a large portion of legal tigers they catch in hopes of letting them grow even larger indicates that we have a quality fishery for these fish in Otisco.

During the 2014 FCS twelve tigers were caught with lengths ranging from 7.5 inches (recently stocked) to 35.3 inches (Appendix 2). Five of the tigers were tagged before being released with grey colored Floy tags (looks like a piece of spaghetti), placed in front of the dorsal fin. If you catch a tagged tiger please do **NOT** remove the tag if releasing the fish. Please write down the tag number and fish length in your diary before

releasing the fish. If the fish is kept, please remove the tag and tape it in your diary on the appropriate page next to the length.

Black bass

Overall, a total of 78 smallmouth and 163 largemouth bass were caught by cooperators in 2014. The majority of fish recorded were, again, at or above the legal 12-inch length limit (82% of smallmouth and 83% of largemouth). The harvest rate was above the five-year average of 9%, with 26 of the 200 legal bass harvested (13%), that's still a very impressive 87% release rate. The longest bass measured was a "hawg" 23.5 inch largemouth, while the longest smallmouth recorded measured a whopping 21 inches. Based on the standard length/weight tables found on our website at: , the largemouth would have been pushing 8 pounds and the smallmouth would have weighed around 4.5 pounds.

Cooperators specifically targeting bass put in 37 trips for a total of 95 angler-hours. Those targeting bass caught 73 overall, 45 of which were of legal length (62%). This equates to a targeted catch rate of 0.77 bass per hour (1 bass every 1.3 hours) and a targeted legal catch rate of 0.47 legal bass per hour (1 legal bass every 2.1 hours). These bass catch rates compare favorably with observed catch rates of diary cooperators from other waters in New York State. Those fishing for a combination of any warm water gamefish did somewhat better in 2014 than in 2013, when it came to catching bass. They caught 30 bass, of which 27 were legal length (90%). This equates to catch rates of 0.18 bass per hour overall (1 bass every 5.6 hours), and 0.16 legal bass per hour (1 legal bass every 6.3 hours). The 2013 bass catch rate for these anglers was 0.16 bass (1 bass every 6.3 hours) and 0.13 legal bass per hour (1 legal bass every 7.7 hours). Typically, these "any" warm water gamefish anglers have bass catch rates similar to those for anglers targeting bass. However, this is the second consecutive year that their bass catch rates were well below the bass anglers. Hopefully this is just a two year anomaly since we have no reason to believe that there is anything wrong with the lake's bass populations.

Overall, the average length of smallmouth bass caught was 14.4 inches and 14.3 inches for largemouth bass. The majority (92%) of smallmouth bass were caught by boat anglers, but surprisingly, fishing from shore accounted for the majority (64%) of the largemouth catch. The most productive locations for smallmouth bass were Area 2 and Area 3 with 38 and 35 bass, respectively. Once again, the "hot" area for largemouth bass was Area 3, with 139 caught. Traditionally, "The Narrows" (where only 9 largemouth were caught in 2014) is usually the "hot" area for largemouth bass, but this is the third consecutive year that Area 3 has been "hotter." For smallmouth bass, the month of July was the top producer (22 bass) followed closely by June (20 bass). June was the big month for largemouth bass (71), with July and May adding 32 and 29, respectively.

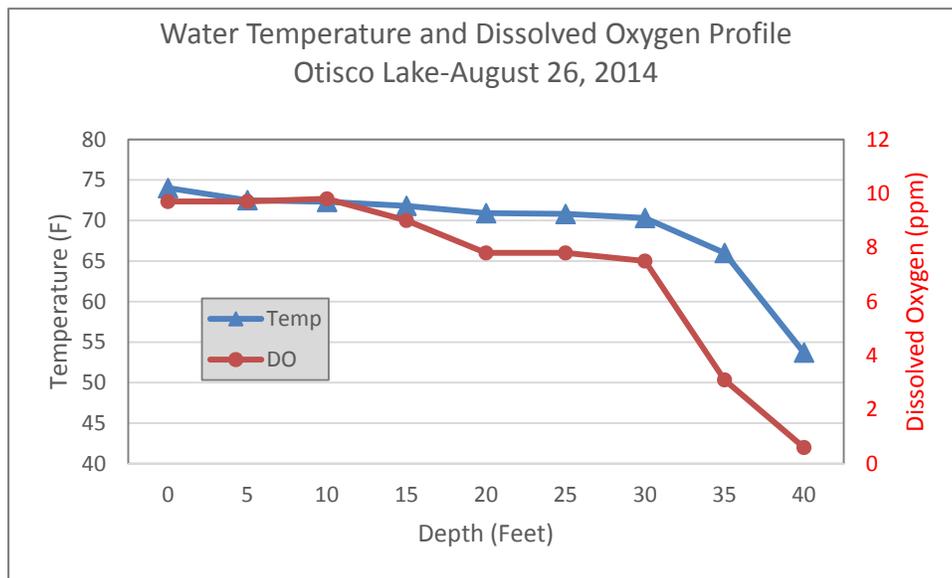
253 bass were caught during our 2014 FCS, 161 smallmouth and 92 largemouth bass (Appendix 1). Smallmouth bass ranged in length from 2.8 to 20.6 inches, while largemouth ranged from 2.2 to 20.7 inches (Appendix 2).

Brown trout

In 2014, anglers specifically targeting brown trout made just 1 trip totaling 2 hours of effort. This is way below the 5-year average of 22 trips and 68 hours of effort. Traditionally, anglers specifically targeting brown trout catch the majority of them, with a 5-year average of 73%. That was not the case in 2014, as all 23 of the brown trout were caught by anglers targeting walleye. 2014 was the second complete season with the 12-inch legal size limit. The size was reduced from 15-inches because of Otisco Lake's limited ability to support trout through the summer months, to help maximize the harvest potential of stocked trout and reduce the numbers which are likely lost to temperature stress in late summer. So, unlike prior years when only 10-

51% of the brown trout caught were of legal length, 100% were of legal length in 2014. Though they were all legal length, no brown trout were harvested by cooperators in 2014. This harvest rate is below the five-year average of 17%, which again is somewhat surprising, as we anticipated the harvest rate to increase with the reduced size limit. The longest brown trout caught was 18 inches. Once again the majority of fish caught (83%) were in the 12-15 inch size range, which is the size of the two-year-olds that Onondaga County Hatchery stocks in the lake. All of the brown trout were caught in July, and all but two were caught in Area 3, those two came from Area 2.

Only one brown trout was collected during our FCS in 2014, a 16.1 inch brown collected during our late-August gill netting. The lake was stratified at that time with a water temperature of 70° F at 30 feet, and by 40 feet it had dropped to 54° F. The dissolved oxygen (DO) levels were 9.7 parts per million (ppm) from the surface to 7.5 ppm at 30 feet. At 35 feet the DO level dropped to 3.1 ppm, and by 40 feet it was <1 ppm. Though trout can survive for short periods at lower DO levels, 4 ppm is usually considered the minimum. So, it was most likely another difficult summer on Otisco Lake for brown trout survival as they were “sandwiched” between warm water temperatures and low DO.



In closing I want to again thank all of the cooperators who work so hard to maintain the diaries for us. As always, I encourage anyone who fishes any of our Finger Lakes to consider becoming a diary cooperator. If you know of someone who fishes any of these lakes, please let them know about our program. **Good luck fishing in 2015!**

Sincerely,

James Everard
Biologist 1 (Aquatic)



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Otisco Lake
Fishing Diary Summary

| Year | Total # Fishing Trips | % of Successful Outings | Ave Hours/ Angler Trip | Total Legal Caught ² | | | | | Average Length (in.) of Fish Kept (# kept in Parentheses) | | | | | # Hours to Catch 1 Legal Gamefish | # of Coop. |
|------|-----------------------|-------------------------|------------------------|---------------------------------|-----|-----|-----|-----|---|------------|-----------|-----------|-----------|-----------------------------------|------------|
| | | | | Gamefish ¹ | | | | | | | | | | | |
| | | | | BT | WAE | SMB | LMB | TGR | BT | WAE | SMB | LMB | TGR | | |
| 1979 | 174 | 63 | 4.0 | 2 | 165 | 26 | -- | -- | 16.8 (2) | 23.1 (165) | 14.3 (26) | -- | -- | 6.0 | 8 |
| 1980 | 43 | 32 | 4.6 | -- | 17 | 18 | -- | -- | -- | 22.4 (17) | 13.3 (18) | -- | -- | 11.8 | 4 |
| 1981 | 40 | 43 | 4.2 | -- | -- | 17 | 5 | -- | -- | -- | 14.5 (17) | 14.9 (5) | -- | 9.1 | 7 |
| 1982 | 27 | 33 | 3.1 | -- | 3 | 13 | -- | -- | -- | 24.0 (3) | 13.0 (13) | -- | -- | 8.1 | 4 |
| 1983 | 36 | 55 | 7.3 | 7 | 13 | 9 | 1 | -- | 13.9 (7) | 24.0 (13) | 13.2 (9) | 14.0 (1) | -- | 7.3 | 9 |
| 1984 | 40 | 18 | 4.0 | 5 | 1 | 8 | -- | -- | 19.9 (5) | 26.0 (1) | 13.1 (8) | -- | -- | 29.6 | 8 |
| 1985 | 18 | 22 | 4.9 | 5 | -- | -- | -- | -- | 19.1 (5) | -- | -- | -- | -- | 20.6 | 5 |
| 1986 | 6 | 84 | 5.6 | 1 | -- | 3 | -- | -- | 23.3 (1) | -- | 13.7 (3) | -- | -- | 14.2 | 2 |
| 1987 | 21 | 38 | 2.8 | -- | 9 | -- | -- | -- | -- | 23.6 (9) | -- | -- | -- | 4.5 | 4 |
| 1988 | 10 | 29 | 3.4 | -- | 2 | -- | -- | -- | -- | 24.4 (2) | -- | -- | -- | 6.3 | 2 |
| 1989 | 9 | 50 | 3.3 | -- | 2 | 1 | -- | -- | -- | 25.8 (2) | 16.5 (1) | -- | -- | 7.4 | 2 |
| 1990 | 96 | 21 | 5.8 | 11 | 2 | -- | -- | 1 | 20.7 (11) | 26.3 (2) | -- | -- | 32.0 (1) | 30.1 | 7 |
| 1991 | 506 | 27 | 4.1 | 19 | 6 | 19 | 15 | 6 | 20.0 (19) | 25.8 (6) | 15.1 (19) | 14.7 (15) | 35.0 (6) | 24.0 | 15 |
| 1992 | 434 | 49 | 3.1 | 80 | 2 | 9 | 8 | 7 | 18.4 (80) | 20.8 (2) | 16.4 (9) | 14.1 (8) | 35.0 (7) | 5.5 | 21 |
| 1993 | 328 | 45 | 3.9 | 27 | 13 | 12 | 13 | 10 | 20.2 (27) | 24.9 (13) | 17.2 (12) | 15.5 (13) | 33.8 (10) | 9.6 | 19 |
| 1994 | 397 | 34 | 4.0 | 35 | 7 | 14 | 7 | 3 | 14.9 (35) | 24.7 (7) | 17.0 (14) | 15.6 (7) | 33.7 (3) | 11.9 | 27 |
| 1995 | 277 | 45 | 3.7 | 26 | 6 | 13 | 9 | 3 | 17.1 (26) | 23.8 (6) | 14.6 (13) | 15.5 (9) | 33.0 (3) | 4.9 | 23 |
| 1996 | 213 | 48 | 4.0 | 11 | 59 | 47 | 65 | 31 | 17.5 (10) | 22.4 (15) | 14.2 (8) | -- | 37.2 (2) | 4.0 | 15 |
| 1997 | 149 | 50 | 4.5 | 11 | 36 | 39 | 52 | 15 | 19.8 (9) | 22.1 (8) | -- | 15.5 (1) | 34.7 (3) | 4.4 | 11 |
| 1998 | 179 | 62 | 4.9 | 12 | 71 | 41 | 64 | 38 | 19.0 (4) | 21.2 (31) | 13.2 (2) | -- | 43.5 (3) | 3.9 | 11 |
| 1999 | 139 | 71 | 5.0 | 14 | 71 | 40 | 66 | 14 | 20.4 (10) | 21.0 (34) | 15.3 (15) | 17.0 (2) | 37.4 (3) | 3.3 | 14 |
| 2000 | 113 | 71 | 5.0 | 7 | 142 | 17 | 8 | 1 | 17.6 (6) | 21.3 (131) | 15.8 (6) | 17.0 (1) | 36.0 (1) | 3.3 | 6 |
| 2001 | 94 | 65 | 5.4 | 23 | 30 | 33 | 1 | 1 | 18.8 (8) | 20.3 (12) | 17.5 (1) | -- | -- | 5.7 | 10 |
| 2002 | 61 | 53 | 4.6 | 3 | 17 | 19 | 11 | 1 | 20.5 (2) | 21.5 (16) | -- | 16.0 (1) | -- | 5.5 | 8 |
| 2003 | 123 | 71 | 3.9 | 16 | 58 | 32 | 54 | 1 | 16.1 (4) | 20.7 (51) | 13.1 (6) | 14.8 (3) | -- | 3.0 | 11 |
| 2004 | 107 | 72 | 4.3 | 16 | 51 | 36 | 42 | 2 | 22.8 (2) | 21.6 (39) | 14.7 (7) | 12.0 (1) | -- | 3.0 | 11 |
| 2005 | 92 | 63 | 4.2 | 1 | 15 | 38 | 51 | 1 | -- | 21.3 (13) | 14.7 (15) | 14.9 (6) | -- | 3.6 | 11 |
| 2006 | 316 | 69 | 3.5 | 12 | 160 | 99 | 175 | 8 | 18.4 (16) | 21.6 (107) | 15.4 (14) | 14.3 (6) | 31.7 (1) | 2.3 | 16 |
| 2007 | 367 | 71 | 4.2 | 54 | 127 | 91 | 162 | 22 | 19.3 (7) | 21.7 (88) | 14.5 (10) | 13.0 (1) | 33.3 (5) | 3.4 | 18 |
| 2008 | 162 | 71 | 3.5 | 12 | 46 | 46 | 37 | 10 | 22.4 (5) | 21.6 (38) | 15.4 (10) | -- | 32.4 (2) | 3.8 | 13 |
| 2009 | 316 | 68 | 4.1 | 26 | 48 | 76 | 97 | 39 | 21.1 (5) | 21.4 (36) | -- | 21.0 (1) | 36.4 (8) | 4.6 | 16 |
| 2010 | 211 | 76 | 3.8 | 31 | 4 | 99 | 51 | 5 | 19.3 (7) | 21.5 (1) | 15.0 (2) | -- | 34.0 (1) | 4.2 | 10 |
| 2011 | 326 | 72 | 3.9 | 12 | 97 | 160 | 136 | 9 | 18.1 (6) | 21.1 (86) | 17.0 (1) | 19.3 (2) | 35.0 (2) | 3.1 | 19 |
| 2012 | 106 | 65 | 3.7 | 6 | 26 | 50 | 31 | 6 | -- | 22.1 (25) | 17.5 (5) | 13.5 (8) | 31.0 (1) | 3.3 | 12 |
| 2013 | 381 | 62 | 3.5 | 42 | 251 | 53 | 79 | 12 | 15.5 (6) | 22.8 (237) | 17.0 (14) | 13.3 (3) | 40.0 (1) | 3.1 | 18 |
| 2014 | 379 | 60 | 3.6 | 23 | 294 | 64 | 136 | 13 | -- | 23.2 (259) | 13.6 (22) | 13.0 (4) | -- | 2.6 | 16 |

1979 was the first year for this summary.

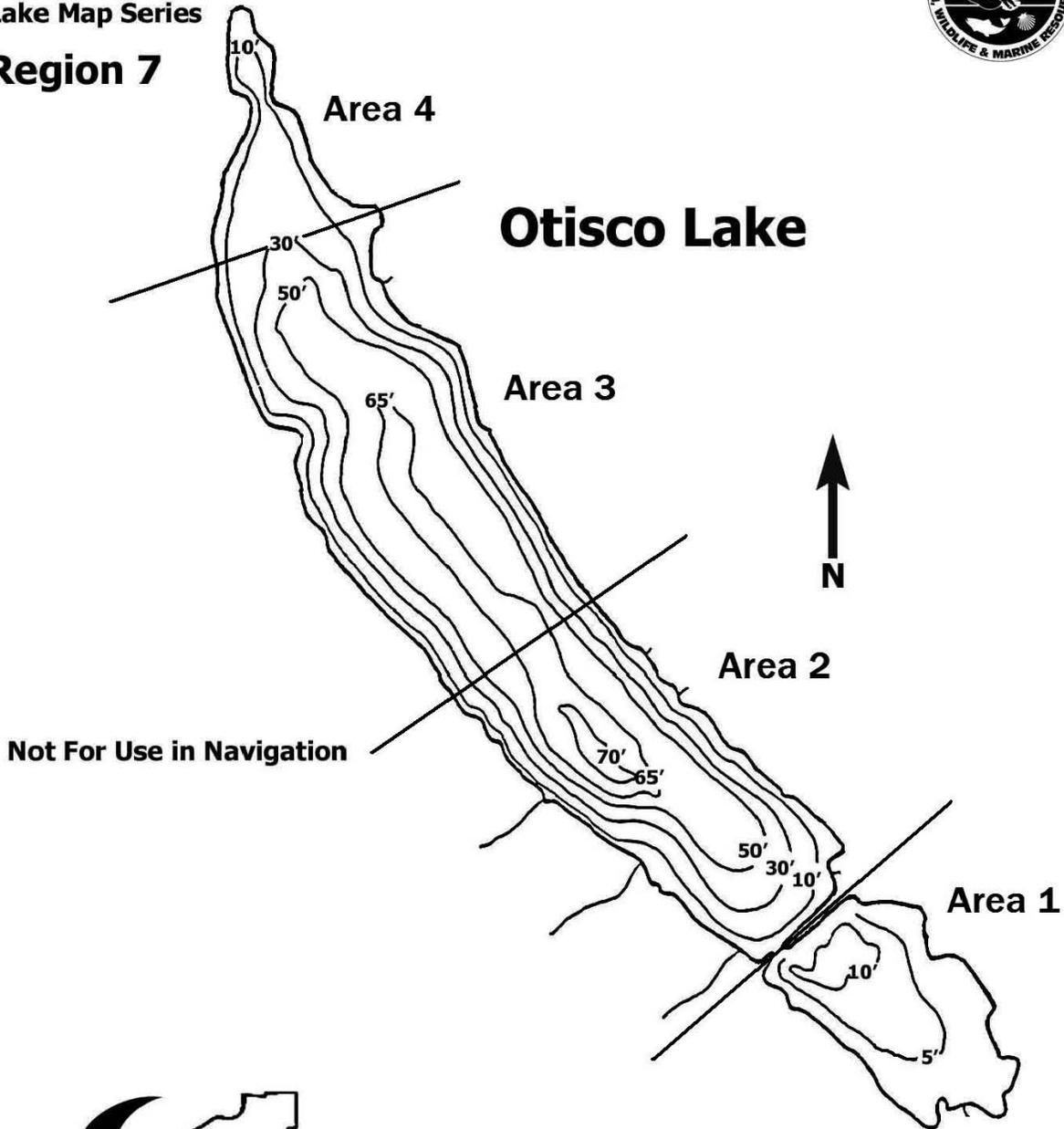
1 - Gamefish = BT-Brown Trout, WAE-Walleye, SMB-Smallmouth Bass, LMB-Largemouth Bass, TGR-Tiger Musky.

2 - Beginning with 1996, the record includes all legal fish caught. Prior years data include only those legal fish that were kept.

3 - Success = One or more legal target fish caught. An outing can include more than one "trip" (i.e., two anglers fishing and one legal fish caught between them).



Region 7



Not For Use in Navigation



Otisco Lake

County: Onondaga Town: Otisco, Spafford

Surface Area: 2,236 Acres

Fish Species Present: Tiger Muskellunge, Smallmouth Bass, Largemouth Bass, Yellow Perch, Black Crappie, Walleye, Common Carp, White Sucker, Bluegill, Pumpkinseed

Scale: 0  3655 ft

Appendix 1: Number of Fish Collected During the Fish Community Survey on Otisco Lake in 2014.

| Species | TOTAL | Percent |
|--------------------|-------|---------|
| Alewives | 96 | 4% |
| Brown Trout | 1 | 0% |
| Tiger Musky | 12 | 1% |
| Common Carp | 5 | 0% |
| Golden Shiner | 42 | 2% |
| Spottail Shiner | 36 | 2% |
| Minnow Family | 2 | 0% |
| Emerald shiner | 50 | 2% |
| White Sucker | 8 | 0% |
| Bluntnose Minnow | 13 | 1% |
| Yellow Bullhead | 10 | 0% |
| Brown Bullhead | 10 | 0% |
| Channel Catfish | 8 | 0% |
| White Perch | 335 | 14% |
| Banded Killifish | 13 | 1% |
| Rock Bass | 128 | 5% |
| Sunfish Family | 192 | 8% |
| Pumpkinseed | 127 | 5% |
| Bluegill | 677 | 29% |
| Smallmouth Bass | 161 | 7% |
| Largemouth Bass | 92 | 4% |
| White Crappie | 62 | 3% |
| Black Crappie | 26 | 1% |
| Tessellated Darter | 14 | 1% |
| Yellow perch | 145 | 6% |
| Walleye | 70 | 3% |

Total 2,335

Appendix 2: Number of fish collected by inch group on Otisco Lake during the 2014 Fish Community Survey and by the 2014 Angler Diary Cooperators.

| 2014 Fish Community Survey | | | | | 2014 Angler Diary Cooperator | | | | |
|----------------------------|---------|-------------|-----------------|-----------------|------------------------------|-------------|-----------------|-----------------|------|
| Inch | Walleye | Tiger Musky | Smallmouth Bass | Largemouth Bass | Walleye | Tiger Musky | Smallmouth Bass | Largemouth Bass | Inch |
| 2 | | | 5 | 23 | | | | | 2 |
| 3 | | | 9 | 8 | | | | | 3 |
| 4 | | | 2 | | | | | | 4 |
| 5 | | | 18 | 1 | | | | | 5 |
| 6 | | | 31 | 1 | | | | | 6 |
| 7 | | 1 | 7 | 5 | 1 | | | | 7 |
| 8 | | 2 | 15 | 8 | | | 2 | 1 | 8 |
| 9 | | | 12 | 8 | | | 2 | 3 | 9 |
| 10 | 2 | | 6 | 5 | | | 4 | 9 | 10 |
| 11 | 1 | | 2 | 9 | | | 6 | 14 | 11 |
| 12 | 3 | | 8 | 4 | | | 13 | 23 | 12 |
| 13 | 1 | | 5 | 6 | | | 8 | 18 | 13 |
| 14 | | | 8 | 4 | 1 | | 5 | 29 | 14 |
| 15 | 8 | | 7 | 5 | 1 | 1 | 9 | 30 | 15 |
| 16 | 4 | 1 | 11 | 2 | | | 9 | 8 | 16 |
| 17 | 3 | | 11 | | 7 | | 7 | 8 | 17 |
| 18 | 10 | | 3 | 1 | 10 | 2 | 5 | 8 | 18 |
| 19 | 12 | | | 1 | 22 | | 4 | 7 | 19 |
| 20 | 9 | | 1 | 1 | 17 | 2 | 1 | 2 | 20 |
| 21 | 11 | | | | 39 | 1 | 2 | 1 | 21 |
| 22 | 4 | 1 | | | 52 | 2 | 1 | 1 | 22 |
| 23 | 1 | 2 | | | 41 | 1 | | 1 | 23 |
| 24 | 1 | 1 | | | 44 | | | | 24 |
| 25 | | | | | 26 | 1 | | | 25 |
| 26 | | | | | 29 | 3 | | | 26 |
| 27 | | | | | 9 | 4 | | | 27 |
| 28 | | | | | 5 | 5 | | | 28 |
| 29 | | | | | | 6 | | | 29 |
| 30 | | | | | | 4 | | | 30 |
| 31 | | 1 | | | | 5 | | | 31 |
| 32 | | 1 | | | | 4 | | | 32 |
| 33 | | 1 | | | | 1 | | | 33 |
| 34 | | | | | | 3 | | | 34 |
| 35 | | 1 | | | | 3 | | | 35 |
| 36 | | | | | | 3 | | | 36 |
| 37 | | | | | | 2 | | | 37 |
| 38 | | | | | | 6 | | | 38 |
| 39 | | | | | | | | | 39 |
| 40 | | | | | | | | | 40 |
| 41 | | | | | | 1 | | | 41 |
| 46* | | | | | | 1 | | | 46* |

Total 70 12 161 92 304 61 78 163