

**NEW YORK STATEWIDE
ANGLER SURVEY
2007**

**REPORT 1:
ANGLER EFFORT AND EXPENDITURES**

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New York State Department of Environmental Conservation
Bureau of Fisheries
625 Broadway
Albany, New York 12233



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2007

REPORT 1:
ANGLER EFFORT AND EXPENDITURES

by

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EXECUTIVE SUMMARY

To efficiently manage New York's freshwater fisheries, comprehensive information is needed periodically on the fishing patterns, preferences, and attitudes of anglers as well as the economic impacts of New York's fisheries. To gather this information, a statewide angler survey was conducted by mail in three phases over the course of 2007-08 and focused on resident and nonresident fishing experiences in New York during the calendar year 2007.

The study had multiple objectives. Those addressed in this report include:

1. Estimate angler effort statewide, by region, species, type of fishing, and major water body.
2. Estimate angler expenditures statewide, by region, and major water body.
3. Assess angler satisfaction with their fishing experience by water body.

For each survey phase, a random sample of 17,000 was drawn from all license holders eligible to fish during the phase. Of the 17,000 questionnaires mailed out during each phase, between 700 and 1,100 were undeliverable and between 6,000 and 8,000 completed questionnaires were returned. This resulted in adjusted response rates ranging from 38% for phase 2 to 49% for phase 3.

Anglers spent an estimated 18,763,715 days fishing New York's freshwaters in 2007. (An angler day is defined as any part of a day that a person spent fishing.) Of the 716,398 fishing license holders eligible to fish between January and May 2007, approximately 49% or 351,035 fished at least one day during that period. Anglers fished an average of 14 days, for an estimated total of 4,939,800 days in New York between January and May, 2007. We estimated that 22% (or 91,361) of the anglers went ice fishing during the period and spent an estimated 836,287 days ice fishing in New York in 2007.

Of the 1,023,871 fishing license holders eligible to fish in New York between June and September 2007, approximately 66% or 676,779 fished at least one day during that period. They fished an average of 15 days, for an estimated total of 10,428,826 days between June and September, 2007.

Of the 572,173 fishing license holders eligible to fish between October and December 2007, an estimated 40% or 228,869 fished at least one day during that period. These anglers fished an average of 15 days, for an estimated total of 3,395,089 days in New York between October and December, 2007.

Over 7 million days were spent fishing for warmwater gamefish (Fig. ES-1), with the majority of that effort occurring during the summer months (June-Sept.). Almost 6 million days were spent in pursuit of coldwater gamefish, with effort spread across the three study periods. Fishing for panfish accounted for over 3 million days of effort. Fishing for marine/anadromous species in freshwater and carp accounted for less than half a million days each in 2007. Some anglers indicated that they spent time fishing for no species in particular or other unclassifiable species, which totaled over 1 million days of effort in 2007.

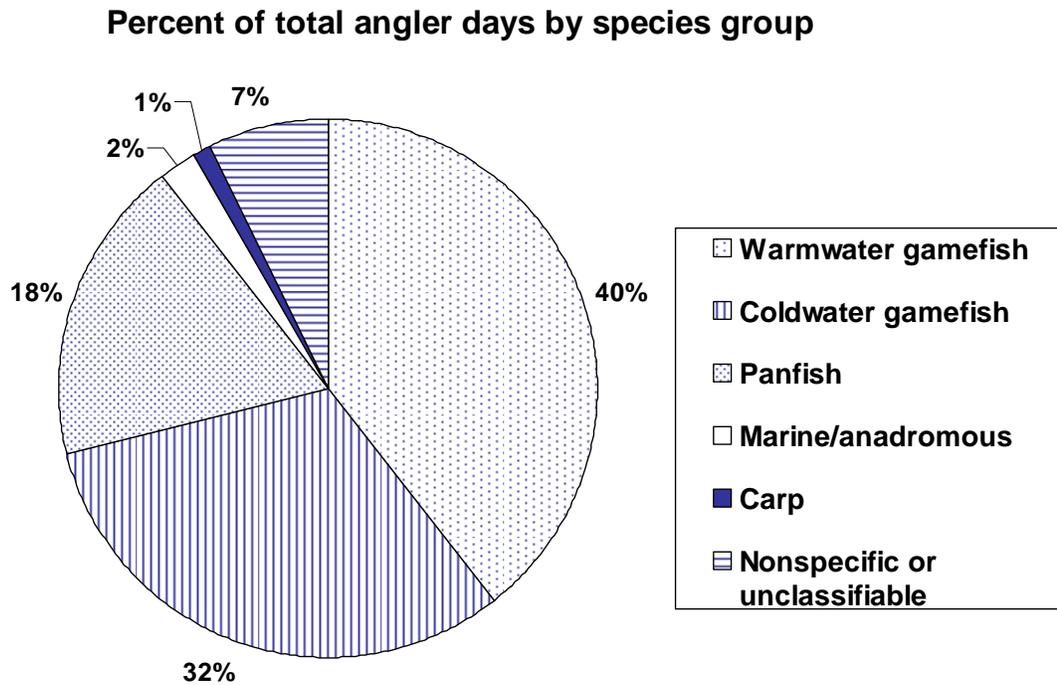


Figure ES-1. Percent of total angler days fished in 2007 by species group.

Most of the fishing effort in New York State occurred on inland waters (Fig. ES-2), but 19% was associated with Great Lakes waters in 2007. In this report “Great Lakes waters” were defined as the New York portion of Lake Erie, the Niagara River, Lake Ontario and its embayments, and the portions of major Lake Ontario and Lake Erie tributaries in the counties closest to the lake before the first barrier impassable to fish. The St. Lawrence River is classified as an inland water.

Percent of total angler days for Great Lakes versus Inland Waters

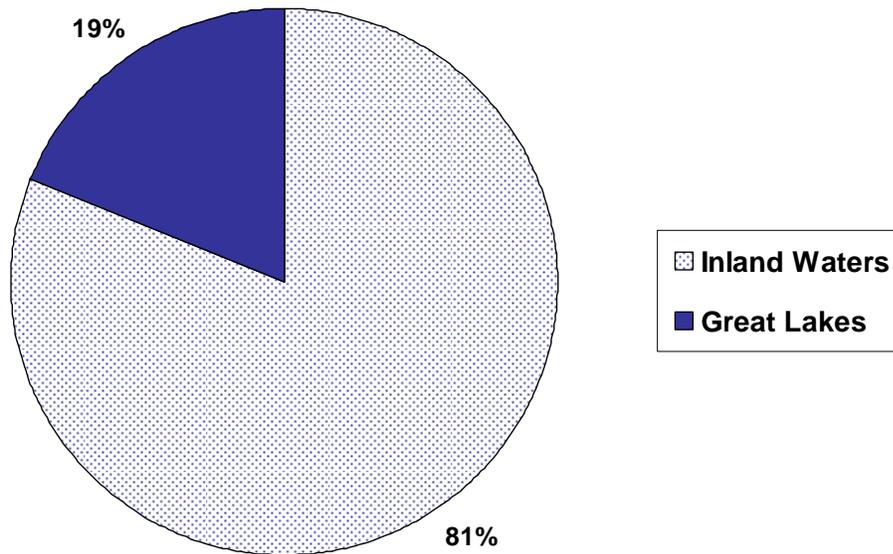


Figure ES-2. Percent of total angler days fished in 2007 by Great Lakes versus inland waters.

Fisheries management in New York is divided into nine regions. Fig. ES-3 shows estimates of the number of days fished by region. Fishing was most concentrated in the northern, central, and western parts of New York State (Regions 5-9).

Total angler days by DEC region fished

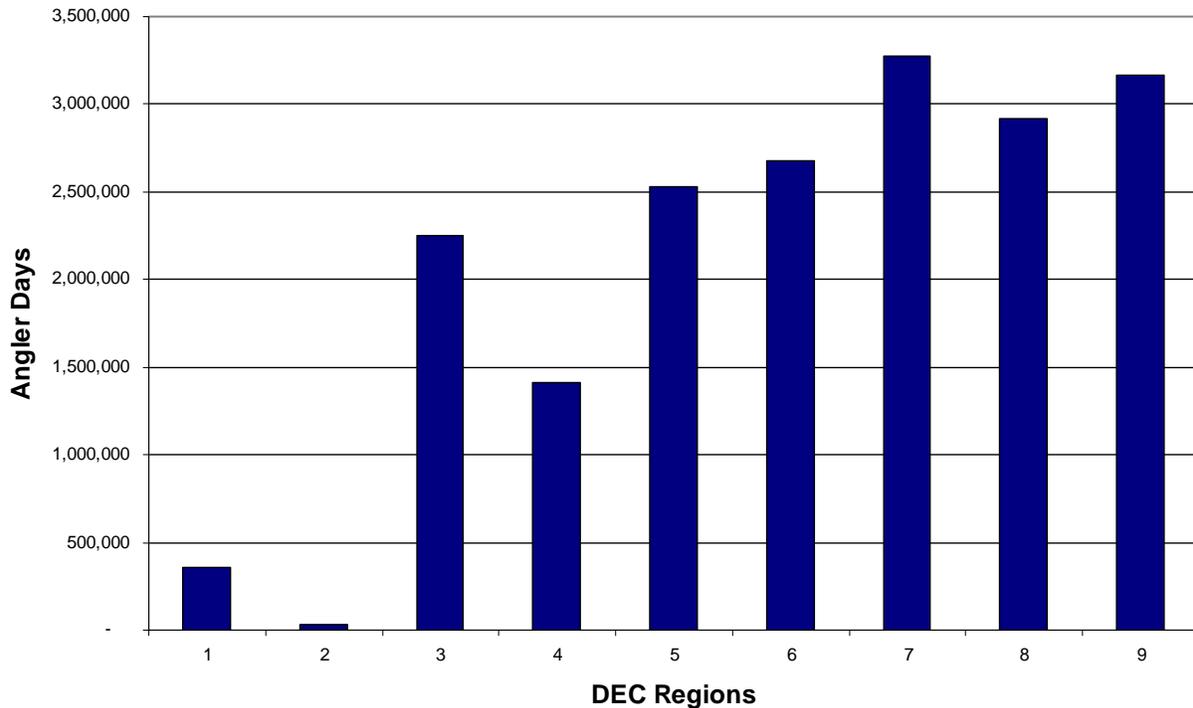


Figure ES-3. Estimated number of days fishing in 2007 by DEC Region.

The top species fished for in New York State was black bass (small or largemouth), which accounted for 4.6 million angler days. The three next most frequently fished for species or species groups were trout (brook, brown, or rainbow), walleye, and yellow perch accounting for over one million days of angler effort each.

The top 10 most frequently fished water bodies in the state were:

1. Lake Ontario (1.3 million days)
2. Oneida Lake (786,000 days)
3. Lake Erie (658,000 days)
4. St. Lawrence River (651,000 days)
5. Hudson River (471,000 days)
6. Chautauqua Lake (414,000 days)
7. Niagara River (369,449 days)
8. Seneca Lake (340,000 days)
9. Salmon River (333,000 days)
10. Cayuga Lake (296,000 days)

New York's resident and nonresident anglers together spent an estimated \$331 million at the fishing site and \$202 million en route to the fishing site. Almost one-third (30%) of the total at-location expenditures were made by out-of-state anglers. Average daily trip-related expenses (\$17.62 at-site plus \$10.76 en route) for all anglers was \$28.38 -- \$22.36 for residents and \$90.10 for nonresidents.

ACKNOWLEDGMENTS

Shaun Keeler and Steve Hurst of the New York State Department of Environmental Conservation (NYSDEC), Bureau of Fisheries, were our primary contacts throughout the study and headed up the Bureau Angler Survey Team. They provided invaluable help and support for the project. We also would like to thank the other members of the Bureau Angler Survey Team (Melissa Cohen, Steve LaPan, Bill Culligan, Dan Bishop, Phil Hulbert, and Bill Schoch) for their efforts in questionnaire design and analysis planning. NYSDEC consultant, Scott Houde, deserves recognition for the many hours he spent on sample selection. NYSDEC Bureau of Fisheries staff member, Casey Festa, is recognized for the many hours spent coding water bodies and checking data for the report.

We thank Human Dimensions Research Unit staff member, Karlene Smith, who assisted with sample selection, mailings, and construction of tables for this report. We also thank Margie Peech for typing the many tables in this report. The Survey Research Institute at Cornell University implemented the surveys, conducted the nonrespondent telephone follow-ups, and scanned the completed questionnaires.

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INTRODUCTION

To efficiently manage New York's freshwater fisheries, comprehensive information is needed periodically on the fishing patterns, preferences, and attitudes of anglers as well as the economic impacts of New York's fisheries. Such information is most effectively obtained from a statewide mail survey. New York has conducted four such surveys, in 1973 (Brown 1975), in 1976-77 (Kretser and Klatt 1981), in 1988 (Connelly et al. 1990), and in 1996 (Connelly et al. 1997). This is the first in a series of four reports that will document the results of a fifth statewide angler survey. The survey was conducted in three phases over the course of 2007-08 and focused on resident and nonresident fishing experiences in New York during the calendar year 2007. The Human Dimensions Research Unit (HDRU) at Cornell University conducted the study for the Department of Environmental Conservation, Bureau of Fisheries.

The study had multiple objectives. Those addressed in this report include:

1. Estimate angler effort statewide, by region, species, type of fishing, and major water body.
2. Estimate angler expenditures statewide, by region, and major water body.
3. Assess angler satisfaction with their fishing experience by water body.

Dissimilar to previous statewide angler surveys, which were conducted using a single annual mailing, the 2007 survey was implemented at three different times during the calendar year. By using a three-wave approach, we hoped to reduce the amount of recall bias associated with angler trip recollection. Past research (Connelly et al. 2000) has shown that both nonresponse bias and recall bias affect estimates of fishing effort. By reducing the recall period from one year to 3-5 months, we hoped to reduce recall bias, and by conducting nonrespondent telephone follow-ups, we hoped to be able to estimate that bias. In addition, we conducted a smaller annual survey similar to previous annual statewide angler surveys to measure the degree of recall bias, provide for trend comparisons, and offer feedback on the improved estimates versus the increased cost of a three-wave approach. The results of this effort did not uncover any significant recall bias. Therefore, results presented in this report can be compared with the results of past angler surveys. For more detailed information on the comparisons and to examine general trends in fishing over time, see Report #4 in this series (Connelly and Brown 2009).

METHODS

Questionnaire Design

The Bureau of Fisheries Angler Survey Team met numerous times to go over questions from past surveys and develop new ones to address issues of current interest and

management needs. Core questions on fishing effort and expenditures were retained from past surveys to allow for trends comparisons. New questions on angler satisfaction, preferences, and opinions on management issues were developed and will be reported primarily in Report 2. Appendix A shows the exact content and wording of the questionnaire. The questionnaires were identical for each phase except for the dates of fishing effort.

Sample Selection

For each phase, a random sample of 17,000 was drawn from all license holders eligible to fish during the phase. Lifetime licenses holders aged 16 or older at the time the survey was implemented were included in the random drawing. Other license types that permitted fishing included annual resident fishing and sportsman, annual nonresident fishing and sportsman, and short-term (1-day, 7-day) resident and nonresident fishing licenses. Additional details on sample selection can be found in Appendix B.

Mail Survey Implementation

The mail survey for each phase was implemented as soon as possible after the phase period ended. The first phase covered the period from Jan. 1 to May 31, 2007. The surveys were sent out on May 31, 2007 with up to three follow-up mailings sent to nonrespondents over the course of the following month. Phase 2 covered the period from June 1 to Sept., 30, 2007, and the first mailing of the survey was sent out on Oct. 18, 2007. Phase 3 covered the period from Oct. 1 to Dec. 31, 2007, and the first mailing of the survey was sent out on Jan. 7, 2008.

Nonrespondent Telephone Follow-up

A telephone follow-up to 200 nonrespondents was implemented after each phase, for a total of 600 nonrespondent interviews. Questions were asked on fishing effort and satisfaction. Past research has found that nonrespondents fished less than respondents (Connelly et al. 1990, 1997). Nonrespondent data allows us to adjust overall fishing estimates to account for any nonresponse bias.

Analysis and Data Weighting

Returned mail questionnaires were scanned and entered into SPSS (a statistical analysis package for the social sciences). Locations fished, as written in by anglers, were matched to the Bureau of Fisheries database of water bodies and assigned unique identifiers (FIN codes [Fisheries Index Numbers]). An explanation of the matching process can be found in Appendix B. Yearly effort totals were calculated by adding data from the three phases. Confidence intervals were calculated at the 95% level. (See Appendix B for the formula used.)

Estimates of angler effort were reported by phase and in total if the 95% confidence limit was less than 50% of the estimate. A large confidence interval could be due to a small

sample size, large variability among anglers, or both. For example, the number of anglers fishing in Region 2 was small, but the variability among anglers was also small enough in Phase 1 to estimate angler effort, but too large in Phases 2 and 3 for estimates. Estimates where the confidence limit was more than 50% of the estimate were considered too variable/imprecise to be useful to managers. An exception to this rule of thumb was made for the tables that report angler effort by region fished and species fished for. In these tables, effort was reported even if the confidence limit exceeded 50% of the estimate, if the sample size was greater than 10, and the distribution of the responses was considered normal. These numbers are highlighted in italics to alert readers to the increased variability of the estimate. Angler effort was estimated for a total of 80 waters. The top 30 water bodies, based on total effort of over 100,000 days, were selected for more detailed analysis. Waters with less than 100,000 days of effort were not analyzed in more detail primarily because the sample sizes were too small to permit breakdowns of angler effort by region of residence.

Response rates and undeliverable rates differed based on where people lived, and of less importance to this report, the type of license they purchased (Appendix Table C-1). Response rates were lower and undeliverable rates were higher in the New York City and Long Island areas than in central and western New York. This is typical of mail surveys in New York State (Connelly et al. 2002, Enck and Brown 2008). Without weighting the data to account for these differences, estimates of fishing effort would likely be biased downward in locations in and near New York City, and slightly overestimated elsewhere. Therefore, respondents from regions with lower response rates (and higher undeliverable rates) were given more weight, and those in regions with higher response rates were given less weight, corresponding to delivery and response rates.

Nonrespondents who were contacted by telephone were considered to be representative of all nonrespondents. Checks of license type at least partially confirmed this assumption. Comparisons of respondents and nonrespondents indicated that only days fished during phase 2 differed significantly. Thus, nonresponse adjustments were made only for effort estimates in phase 2.

Examination of the expenditure data did not reveal a significant response bias as had been found in previous surveys (Connelly et al. 1990, 1997), perhaps due to the shorter recall period. Therefore, the expenditure data were not weighted in expansions of sample data. However, at-location expenditure estimates over \$400 and en-route estimates over \$600 per day were considered outliers and were not used in the expenditure estimates.

Estimates of effort by species were derived from the question asking for an estimate of the number of days spent primarily fishing for each species at each water body fished. The question was worded in such a way that the number of days fished by species should add to the total days fished. A number of anglers misunderstood the question and likely reported catch instead of days or perhaps indicated they were fishing primarily for several species on the same day. Only respondents whose species days equaled total days were used in the estimate of mean days fished by species. However, the mean days by species was expanded to the total estimate of days for a particular species using all respondents who indicated that they fished for that species.

RESULTS

Mail Survey Response and Adjustments for Nonresponse Bias

Of the 17,000 questionnaires mailed out during each phase, between 700 and 1,100 were undeliverable and between 6,000 and 8,000 completed questionnaires were returned (Table 1). This resulted in adjusted response rates ranging from 38% for phase 2 to 49% for phase 3.

	Phase 1 (Jan.-May)	Phase 2 (June-Sept.)	Phase 3 (Oct.-Dec.)
Initial sample size	17,000	17,000	17,000
Undeliverable	800	1,103	751
Undeliverable rate	4.7%	6.5%	4.4%
Responses	6,823	6,018	7,934
Response rate adjusted for undeliverables	42.1%	37.9%	48.8%

Analysis of the nonrespondent telephone follow-up surveys showed that nonrespondents were just as likely to have fished during the phase and fished approximately the same number of days during the phase as respondents. The exception was days fished in phase 2, in which respondents fished more than nonrespondents (17.3 vs. 12.8 days). As noted previously in the methods section, data were weighted for this bias in phase 2 analysis. Comparisons between respondents and nonrespondents for all questions asked on the nonrespondent survey and covered in this report can be found in Appendix Table C-2.

Organization of Results

The results presented in this report are divided into the three major sections, each of which is designed to stand alone. The beginning of each section presents summary information and a descriptive interpretation of the data. This is followed by tables, which provide the bulk of the information. Each expansion estimate presented in a table represents the best point estimate of that number. Ninety-five percent confidence intervals are presented for most estimates. Totals shown in a particular table may vary slightly from an addition of subtotals because of rounding and because the sample size for individual item estimates may vary. In each case, the totals shown in the tables are more accurate estimates of population parameters than would be obtained by summing the region or waterway estimates. (For example, summing angler effort by region fished yields a total of 18,611,935 days, compared with our best estimate of 18,763,715 total days fished.)

SECTION I: GENERAL ANGLER EFFORT

Anglers spent an estimated 18,763,715 days fishing New York's freshwaters in 2007. (An angler day is defined as any part of a day that a person spent fishing. It could be two hours or twelve hours; any part of a day counts as a fishing day.) Of the 716,398 fishing license holders eligible to fish between January and May 2007, approximately 49% or 351,035 fished at least one day during that period. Anglers fished an average of 14 days, for an estimated total of 4,939,800 days in New York between January and May, 2007. An estimated 22% (or 91,361) of anglers went ice fishing during the period and spent 836,287 days ice fishing in New York in 2007.

Of the 1,023,871 fishing license holders eligible to fish in New York between June and September 2007, approximately 66% or 676,779 fished at least one day during that period. They fished an average of 15 days, for an estimated total of 10,428,826 days between June and September, 2007.

Of the 572,173 fishing license holders eligible to fish between October and December 2007, an estimated 40% or 228,869 fished at least one day during that period. These anglers fished an average of 15 days, for an estimated total of 3,395,089 days in New York between October and December, 2007.

Table 2 identifies how fish species were grouped into categories and Table 3 uses those categories to document the strong interest of New York's anglers in both coldwater and warmwater fishing. Over 7 million days were spent fishing for warmwater gamefish, with the majority of that effort occurring during the summer months (June-Sept.). Almost 6 million days were spent in pursuit of coldwater gamefish, with effort spread across the three study periods. Fishing for panfish accounted for over 3 million days of effort. Fishing for marine/anadromous species in freshwater and carp accounted for less than half a million days each in 2007. Some anglers indicated that they spent time fishing for no species in particular or other unclassifiable species, which totaled over 1 million days of effort in 2007.

Using the Bureau of Fisheries Statewide Fisheries Database, we classified waters fished as either lake/pond or river/stream and found that almost 10 million days were spent fishing on lakes/ponds compared with 6.5 million days on rivers/streams (Table 4). An additional 2.6 million days were spent on waters that could not be classified based on the anglers' description of the water body and our methods of major water body identification (outlined in Appendix B).

Most of the freshwater fishing effort in New York State occurred on inland waters (Table 5), but 19% was associated with Great Lakes waters in 2007. In this report "Great Lakes waters" were defined as the New York portion of Lake Erie, the Niagara River, Lake Ontario and its embayments, and the portions of major Lake Ontario and Lake Erie tributaries in the counties closest to the lake before the first barrier impassable to fish. The St. Lawrence River is classified as an inland water. (See Appendix D for a complete list of the embayments and tributaries included in the definition of Great Lakes.)

Fisheries management in New York is divided into nine regions (Fig. 1). Much of the data in this report is presented on a regional basis to provide managers insight into the levels of fishing activity associated with each region. Table 6 provides estimates of the number of days fished by region. Very few licensed anglers fished freshwater areas in Region 2 (New York City). Although the confidence limit for total Region 2 effort is more than 50% of the estimate, we have reported the estimate and its associated confidence limit to give an indication of the magnitude of fishing in that region. The variability was sufficiently small that an estimate could be made in Region 2 during Phase 1, but the variability was too great to make an estimate for the other two time periods. Table 7 provides estimates of fishing effort based on where anglers live (i.e., region of residence). A sufficient number of anglers who live in Region 2 responded to accurately estimate their fishing effort in New York State. Table 7 also shows that 8.5% of the fishing effort in the state was attributed to anglers living outside the state.

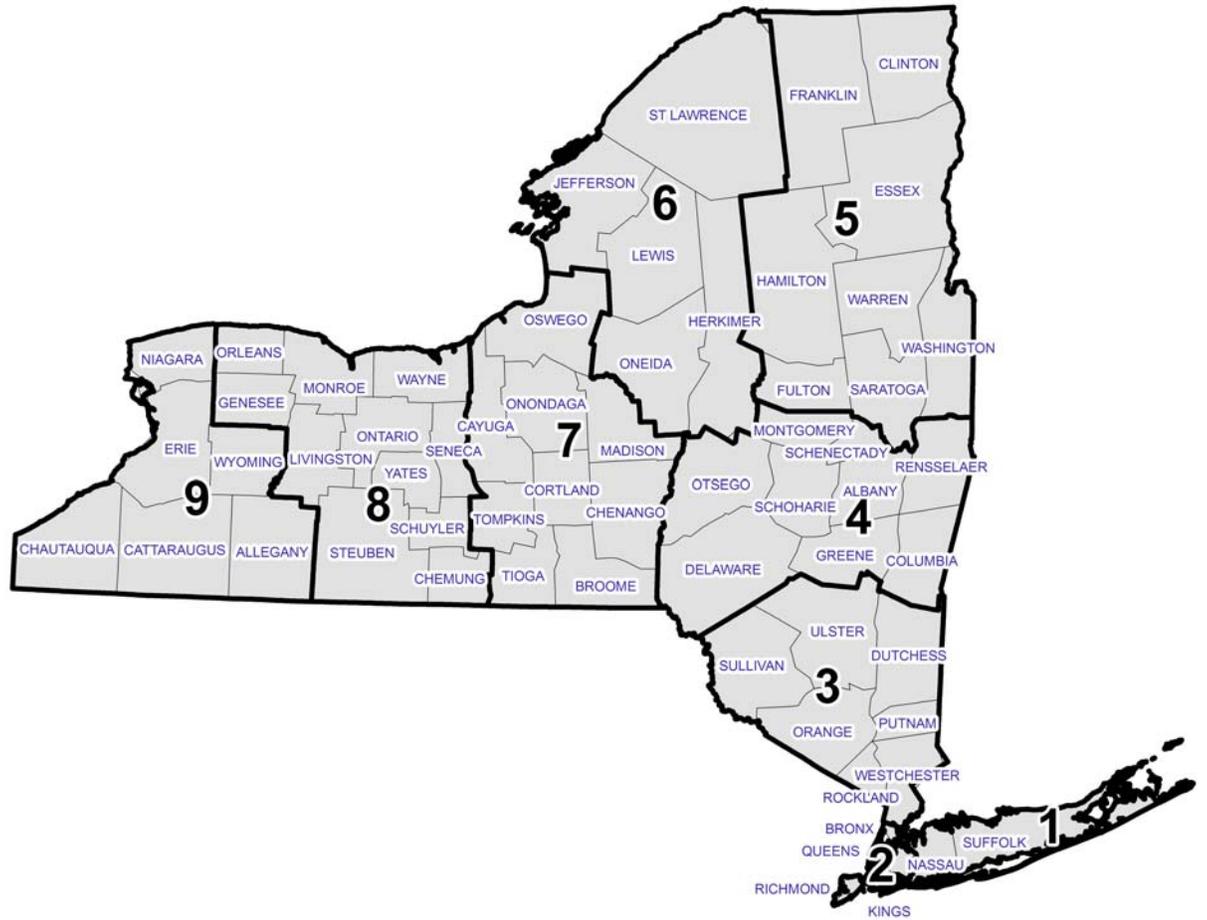


Figure 1. Map showing DEC Regions in New York State.

Table 2. Species groupings as defined for this report.
<i>Warmwater gamefish</i> Black Bass (small or largemouth) Walleye Northern Pike Pickerel Muskie Tiger Muskie
<i>Coldwater gamefish</i> Trout (brook, brown, rainbow) Lake Trout Steelhead Trout Coho/Chinook Salmon Landlocked Atlantic Salmon
<i>Panfish</i> Yellow Perch Bluegill/Sunfish Bullheads, Catfish Crappie (calico bass)
<i>Marine/anadromous</i> Striped Bass Shad

Table 3. Estimated number of angler days by phase and in total for 2007, by species groups.

Species Groups	Angler Days							
	Total		Jan.-May		June-Sept.		Oct.-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Warmwater gamefish	7,145,740	339,960	1,300,324	133,469	4,693,049	294,282	1,152,366	105,626
Coldwater gamefish	5,747,765	279,586	1,580,291	118,716	2,939,003	227,787	1,228,472	110,397
Panfish	3,328,521	247,600	1,206,709	146,638	1,603,286	187,061	518,526	69,364
Marine/anadromous	444,458	83,721	156,232	37,802	237,584	73,659	50,642	12,438
Carp	167,971	39,598	64,588	29,592	76,904	22,070	26,479	14,324
Nonspecific or unclassifiable	1,326,627	138,895	302,416	72,581	880,685	114,565	143,526	29,981

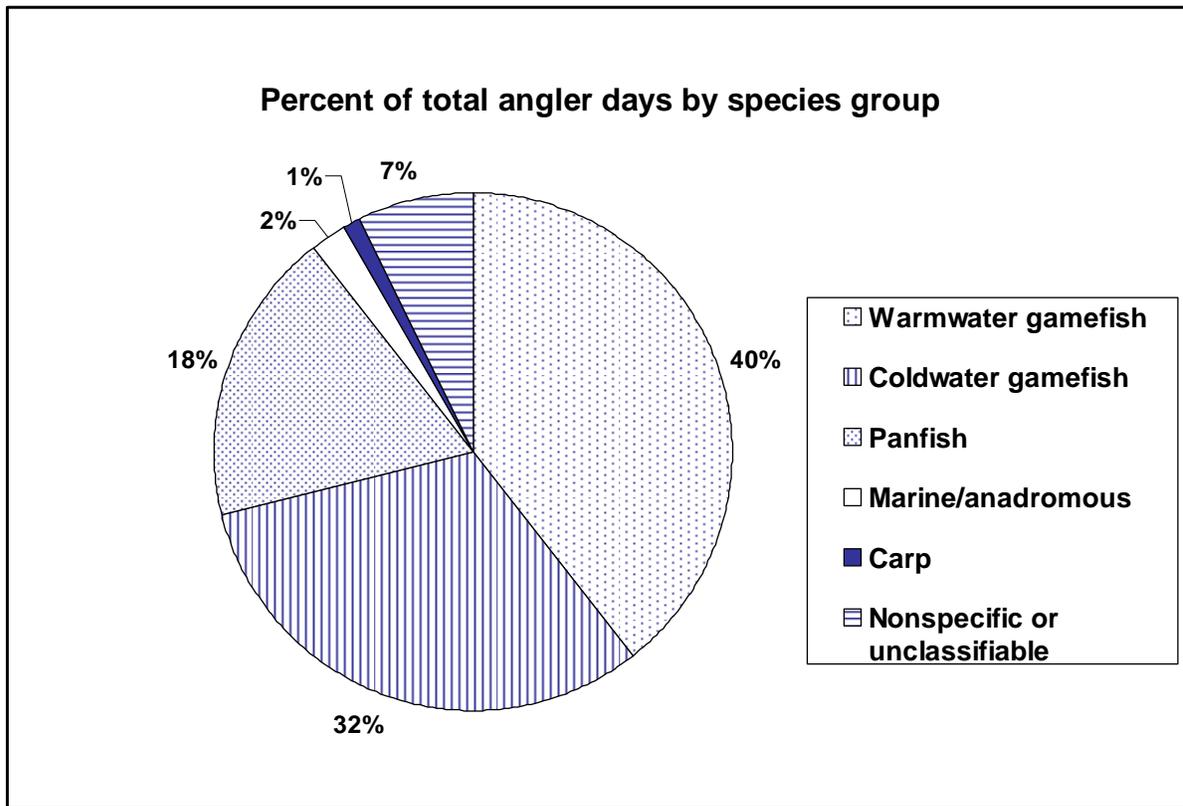


Table 4. Estimated number of angler days by phase and in total for 2007, by water body type.

Water Body Type	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Lake/pond	9,763,608	353,389	2,504,641	186,006	5,646,172	281,088	1,612,795	106,185
River/stream	6,523,385	284,218	1,745,328	142,020	3,441,170	226,793	1,336,887	95,787
Un-classifiable	2,602,681	167,117	715,478	67,022	1,416,720	144,251	470,484	51,263

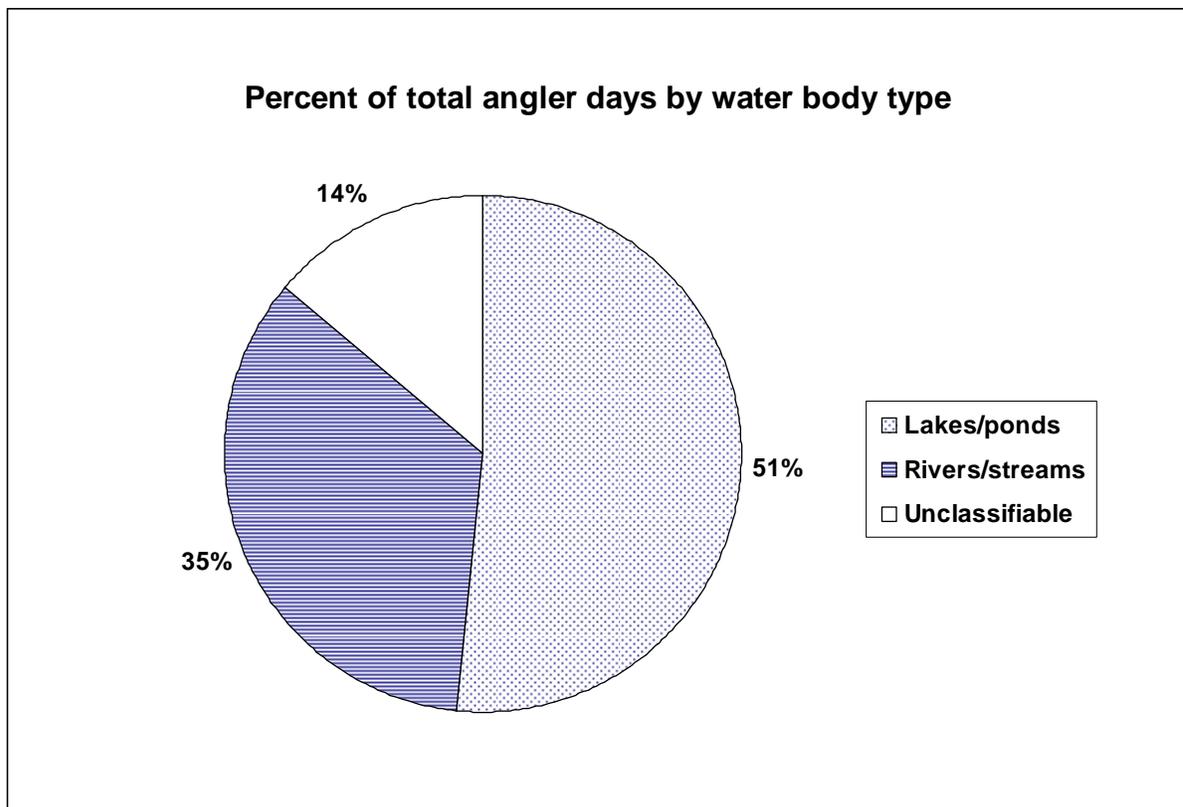


Table 5. Estimated number of angler days by phase and in total for 2007, for Great Lakes and inland waters.

Water Body Type	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Inland Waters	15,248,702	485,034	4,092,945	245,890	8,553,027	389,241	2,602,730	152,602
Great Lakes	3,563,072	216,275	857,146	107,281	1,902,300	171,334	803,627	76,880

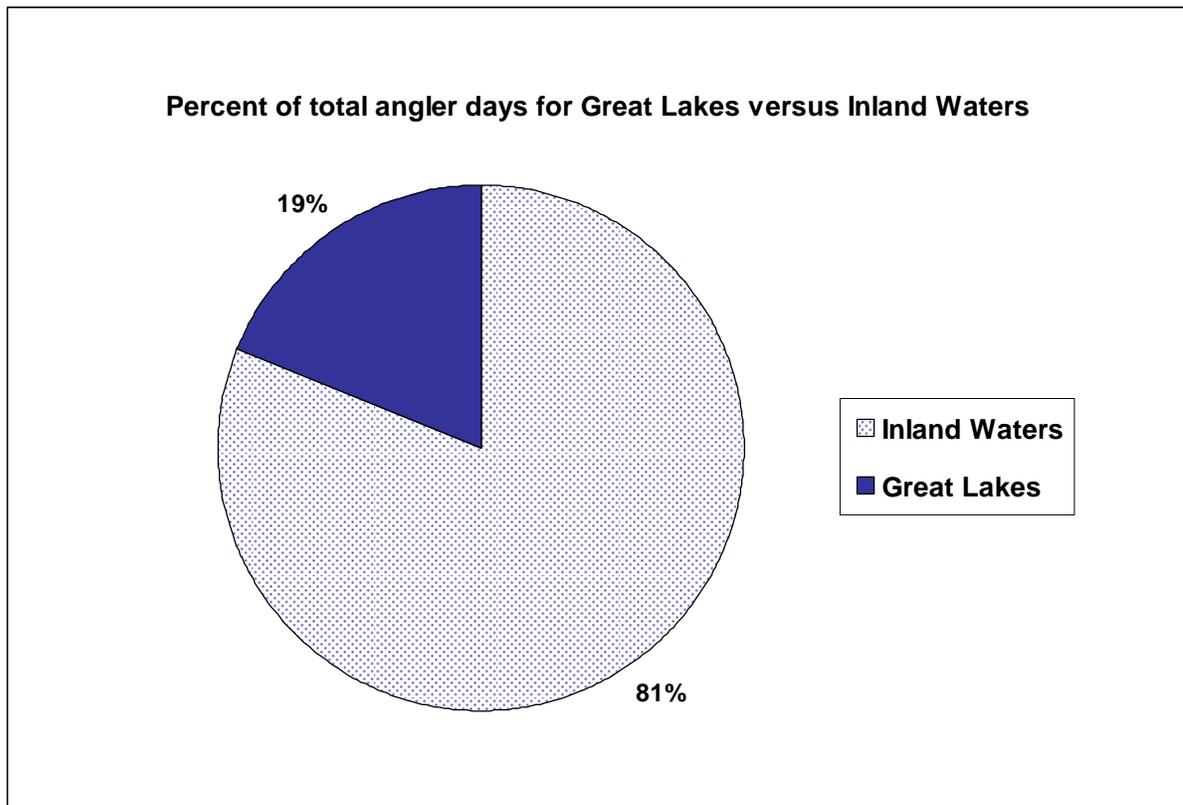


Table 6. Estimated number of angler days by phase and in total for 2007, by DEC region fished.

Region Fished	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
1	360,103	64,018	98,744	25,717	212,705	54,883	48,654	20,612
2	29,319	19,520	5,100	1,916	*	*	*	*
3	2,252,597	185,104	713,436	104,810	1,173,693	138,047	365,468	64,974
4	1,410,128	127,697	395,144	68,567	798,772	103,199	216,212	30,903
5	2,530,014	192,222	541,451	98,245	1,642,477	158,714	346,086	45,901
6	2,674,411	191,275	618,789	88,778	1,649,628	159,821	405,993	56,230
7	3,275,457	214,999	959,007	118,294	1,572,535	159,966	743,915	81,497
8	2,916,539	221,890	673,246	88,250	1,657,027	190,344	586,266	72,225
9	3,163,369	245,088	832,163	115,993	1,717,226	199,683	613,980	82,100

*Confidence limit more than 50% of estimate.

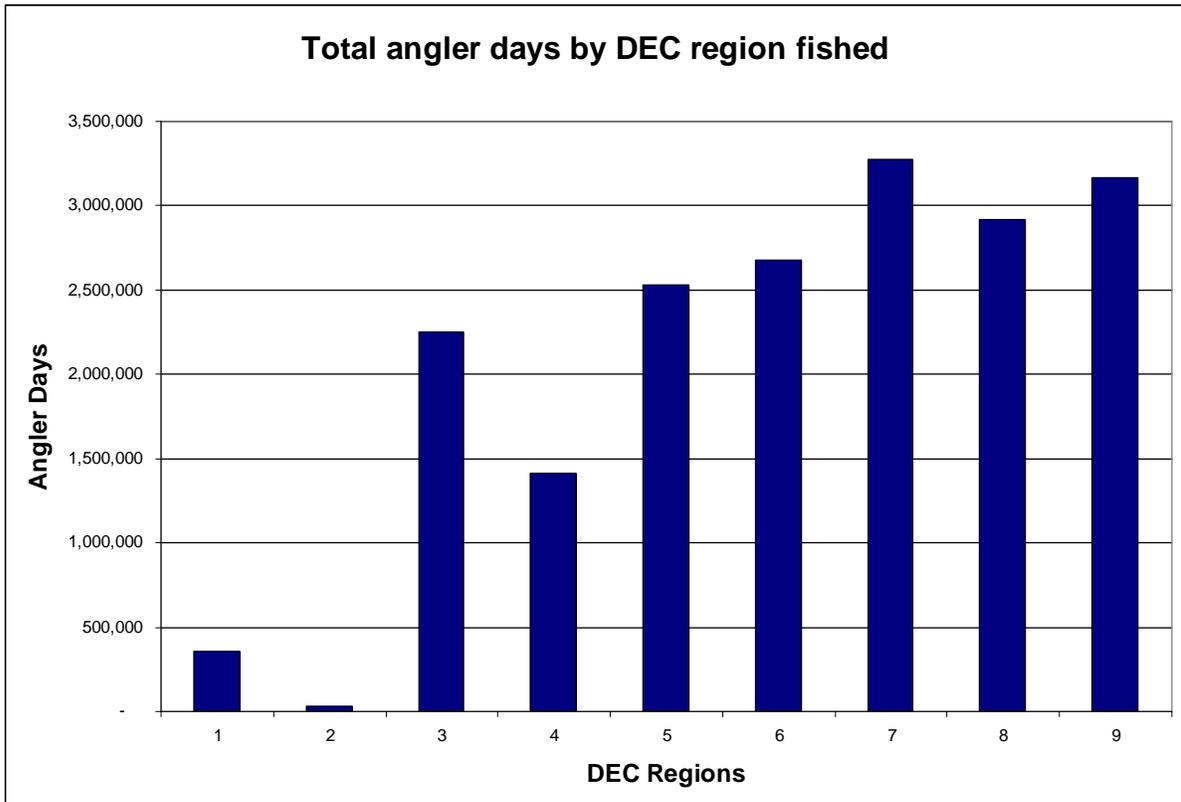
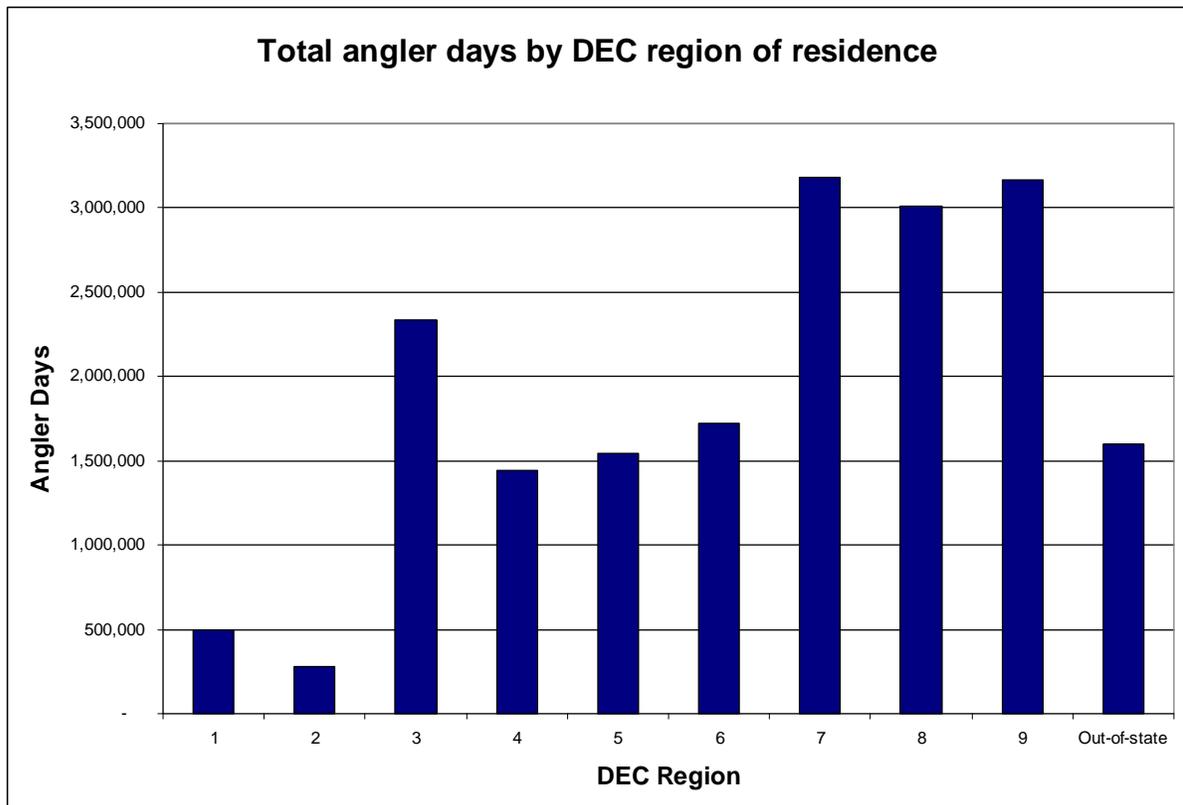


Table 7. Estimated number of angler days by phase and in total for 2007, by DEC region of residence.

Region of Residence	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, \pm	Number	Confidence Limits, \pm	Number	Confidence Limits, \pm	Number	Confidence Limits, \pm
1	493,022	72,319	120,114	26,587	298,194	62,378	74,714	22,843
2	277,139	44,592	95,749	29,128	144,925	30,370	36,465	14,755
3	2,337,878	203,273	702,241	103,354	1,236,098	159,916	399,539	71,169
4	1,445,855	129,045	403,085	80,078	814,763	94,860	228,007	35,239
5	1,541,213	172,276	362,313	100,663	928,059	133,692	250,841	40,897
6	1,726,129	150,214	477,743	76,036	920,831	114,699	327,556	60,223
7	3,182,206	224,324	1,011,437	138,462	1,585,999	159,924	584,770	74,658
8	3,011,020	222,827	657,782	93,744	1,765,613	187,591	587,625	75,322
9	3,164,515	261,540	823,653	115,593	1,703,185	218,417	637,677	85,618
Out-of-state	1,598,548	117,092	285,870	48,475	1,040,870	101,602	271,808	32,213



SECTION II: SPECIFIC USE

This section details specific use of New York's fisheries, first by species fished for, then by region fished, and finally by water body. Information by water body is provided for the top 30 water bodies based on total angler effort.

Black bass (small or largemouth) accounted for 4.6 million angler days, with the majority of those days occurring in the summer months (Table 8, Fig. 2). The three next most frequently fished for species or species groups -- trout (brook, brown, or rainbow), walleye, and yellow perch -- accounted for over one million days of angler effort each. Anglers also indicated that they spent over one million days fishing for no species in particular. Information on species fished for by DEC Region (broken down by Great Lakes versus inland waters as appropriate) is presented in Tables 9 through 16. (There is no table for Region 2 because the number of anglers who fished there was too small.) All species that were listed in the questionnaire and could conceivably be caught in these waters are listed in the tables. Confidence intervals for some estimates presented in these tables exceed 50%. We included these estimates to give an indication of the magnitude of the fishing effort by species. However, we caution readers that the variability of these estimates (highlighted in italics) can be very large. For example, the estimated angler effort for crappie in Region 3 (Table 10) is 129,283 days, but the confidence interval indicates that the true effort could be as low as 20,683 days or as high as 237,883 days.

Angler effort by region was segmented between inland waters and Great Lakes waters for Regions 6 through 9 (Table 17). For Regions 6 through 8, effort in inland waters dominated use, but Region 9 effort was more evenly split between inland waters and Great Lakes.

Ice fishing accounted for 4.5% of angler effort in New York in 2007. It was most popular in Regions 5 through 9, with over 100,000 days of effort devoted to the activity in each region (Table 18).

The origin (residence) of anglers is of interest to fisheries staff and regional planners, both in terms of predicting fishing demand and in measuring the tourism attraction of particular areas. Tables 19 through 27 show the number of days fished in each region by anglers' residence. The tables also show fishing effort in each region apportioned by water body type.

A more detailed analysis of effort by water body begins with Table 28. All water bodies in New York where the confidence limit did not exceed 50% of the estimate of total effort were included in the table. This resulted in estimates of effort for 80 water bodies. In this analysis Lake Ontario is defined as the lake itself, and does not include the bays. The major bays are listed as separate water bodies. In defining fishing on the Hudson River, anglers who accessed the river from Rensselaer County were included in the totals for the River, but not in the estimates of the Upper or Lower River. We could not determine whether

these anglers were fishing above or below the Troy dam which defines the two sections. Angler effort associated with Rensselaer County was likely less than 10% of total Hudson River effort.

Specific data on New York's top 30 waters are presented in Tables 29 through 59. Detailed information is presented for the Hudson River in its entirety and for the Lower Hudson River because of the intense interest in this subsection. The Lower Hudson River is defined as counties south of and including Albany and Columbia counties. Subtraction of Lower Hudson River effort from River totals to obtain estimates for the Upper Hudson River would be inaccurate because anglers who accessed the river from Rensselaer County were not included in estimates of the Upper or Lower Hudson River. Because of the differences between the Upper and Lower Niagara River in the geology, biology including the fish community, and demographics, detailed information is presented separately for the Upper and Lower Niagara River. Information on angler effort by region of residence, expenditures, one-way distance traveled, satisfaction with the fishing experience, and species sought is included in the detailed tables. Effort by species was reported if the species was listed on the questionnaire (see Appendix A) and more than 5% of fishing effort in at least one survey phase could be attributed to that species. Satisfaction with the fishing experience was reported on a scale of 1 to 5, where 1=very dissatisfied, 3=neutral, and 5=very satisfied. No water body had an average satisfaction rating lower than neutral. Average satisfaction ranged from 3.1 on Great Sacandaga Lake to 3.9 on Lake George.

Table 8. Estimated number of angler days by phase and in total for 2007, by species sought.

Species	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, \pm	Number	Confidence Limits, \pm	Number	Confidence Limits, \pm	Number	Confidence Limits, \pm
Black Bass (small or largemouth)	4,613,610	265,493	606,111	97,188	3,338,006	235,087	669,493	75,996
Trout (brook, brown, rainbow)	3,784,604	233,953	1,113,236	97,374	2,002,709	193,018	668,658	89,421
Walleye	2,212,317	199,508	578,574	89,264	1,215,550	165,140	418,192	67,559
Yellow Perch	1,816,026	176,354	735,125	109,104	779,542	132,680	301,359	39,915
Lake Trout	954,511	100,865	258,039	49,757	514,751	81,221	181,720	33,185
Bluegill/Sunfish	944,978	117,242	322,508	79,262	472,393	75,953	150,077	41,163
Northern Pike	847,385	85,879	227,223	41,690	484,714	69,100	135,447	29,365
Steelhead Trout	788,035	82,085	272,249	44,085	240,691	57,811	275,095	38,111
Coho/Chinook Salmon	700,250	74,832	88,675	22,518	374,923	59,886	236,653	38,812
Crappie (calico bass)	698,243	170,134	259,365	71,769	332,812	150,129	106,067	35,442
Bullheads, Catfish	578,396	83,513	176,326	40,859	316,805	68,089	85,266	25,862
Striped Bass (freshwater only)	401,720	83,073	129,464	34,876	226,239	74,527	46,016	11,422
Pickrel	325,727	62,889	85,729	20,143	191,064	57,921	48,934	13,942
Landlocked Atlantic Salmon	262,773	41,514	56,857	19,886	122,255	30,882	83,660	19,346
Carp	167,971	39,598	64,588	29,592	76,904	22,070	*	*
Muskie	127,029	39,882	*	*	78,548	36,204	29,926	12,879
Tiger Muskie	82,094	17,984	*	*	47,087	11,935	*	*
Shad	54,687	16,995	*	*	18,408	7,027	*	*
Other	177,110	43,112	69,670	28,774	73,270	24,852	*	*
No specific species	1,132,624	125,761	225,227	60,897	794,381	107,224	113,016	24,704

*Confidence limit more than 50% of estimate.

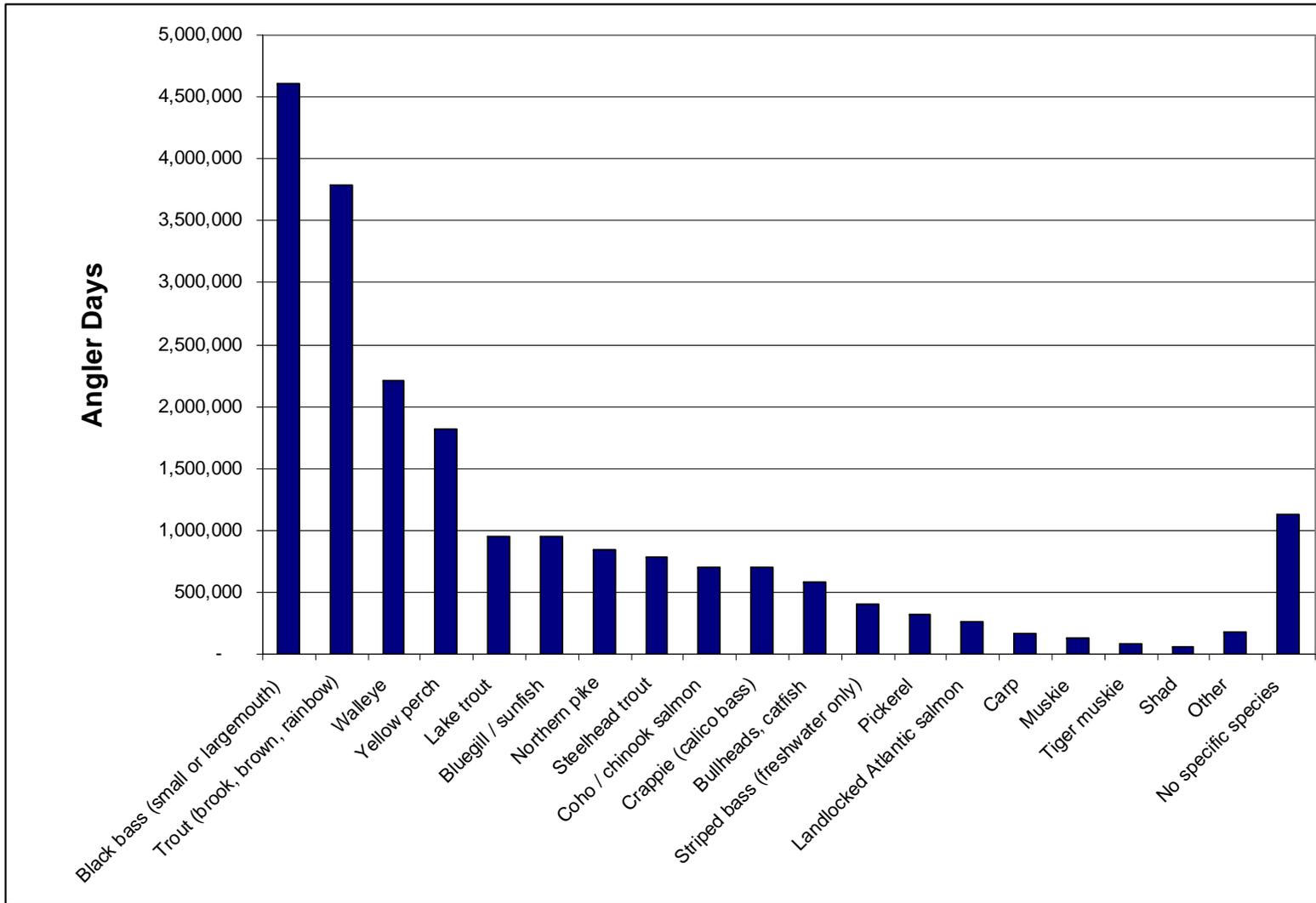


Figure 2. Estimated number of angler days in 2007, by species sought.

Table 9. Estimated number of angler days by phase and in total for 2007, by species sought in Region 1.

Species	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, \pm	Number	Confidence Limits, \pm	Number	Confidence Limits, \pm	Number	Confidence Limits, \pm
Trout (brook, brown, rainbow)	127,683	33,040	36,295	17,173	68,036	23,265	a	a
Black Bass (small or largemouth)	81,650	21,851	14,337	6,696	57,520	19,896	a	a
Bluegill/Sunfish	21,960	10,042	a	a	a	a	a	a
Yellow Perch	a	a	a	a	a	a	a	a
Walleye	a	a	a	a	a	a	a	a
Pickrel	a	a	a	a	a	a	a	a
Crappie (calico bass)	a	a	a	a	a	a	a	a
Bullheads, Catfish	a	a	a	a	a	a	a	a
Carp	a	a	a	a	a	a	a	a
Other	a	a	a	a	a	a	a	a
No specific species	a	a	a	a	a	a	a	a

^aNo estimate is reported because the sample size was 10 or fewer anglers, or the distribution of responses violated the assumption of normality, making an estimate of the confidence interval inaccurate.

Table 10. Estimated number of angler days by phase and in total for 2007, by species sought in Region 3.

Species	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, \pm	Number	Confidence Limits, \pm	Number	Confidence Limits, \pm	Number	Confidence Limits, \pm
Trout (brook, brown, rainbow)	621,598	67,364	223,352	41,193	314,597	48,175	83,650	22,808
Black Bass (small or largemouth)	557,449	87,203	88,405	24,801	373,899	73,485	95,144	39,867
Striped Bass (freshwater only)	163,611	50,916	61,854	21,317	81,322	45,781*	20,434	6,489
Crappie (calico bass)	<i>129,283</i>	<i>108,600*</i>	a	a	29,092	12,174	a	a
Lake Trout	127,373	31,427	42,816	17,852	56,946	23,259	27,610	11,313
Bluegill/Sunfish	83,983	28,945	<i>44,606</i>	<i>24,779*</i>	28,602	9,983	a	a
Yellow Perch	78,581	19,110	36,182	11,943	23,715	10,891	<i>18,685</i>	<i>10,196*</i>
Pickrel	73,725	16,194	28,015	10,704	36,954	11,223	<i>8,756</i>	<i>4,658*</i>
Walleye	63,621	23,931	a	a	25,135	11,973	<i>9,405</i>	<i>5,555*</i>
Bullheads, Catfish	39,297	18,295	a	a	<i>18,992</i>	<i>11,897*</i>	a	a
Carp	27,196	10,013	a	a	a	a	a	a
Shad	19,243	9,490	a	a	a	a	a	a
Northern Pike	a	a	a	a	a	a	a	a
Muskie	a	a	a	a	a	a	a	a
Tiger Muskie	a	a	a	a	a	a	a	a
Landlocked Atlantic Salmon	a	a	a	a	a	a	a	a
Other	a	a	a	a	a	a	a	a
No specific species	85,198	29,379	<i>42,527</i>	<i>25,940*</i>	33,153	12,843	<i>9,518</i>	<i>5,028*</i>

*Note: Confidence limit exceeds 50% of the estimate. Therefore, the accuracy of the estimate is very limited in our opinion. The number of angler days and associated confidence interval are italicized to emphasize this point.

^aNo estimate is reported because the sample size was 10 or fewer anglers, or the distribution of responses violated the assumption of normality, making an estimate of the confidence interval inaccurate.

Table 11. Estimated number of angler days by phase and in total for 2007, by species sought in Region 4.

Species	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Trout (brook, brown, rainbow)	493,014	96,115	160,085	45,771	286,961	83,702	45,968	11,710
Black Bass (small or largemouth)	348,884	67,759	49,702	17,204	226,527	59,016	72,655	28,505
Walleye	144,318	40,627	36,806	17,436	88,535	35,921	18,977	7,500
Yellow Perch	78,855	31,168	a	a	<i>41,447</i>	<i>24,407*</i>	<i>10,885</i>	<i>6,821*</i>
Striped Bass (freshwater only)	68,055	20,731	<i>35,254</i>	<i>17,718*</i>	24,920	10,127	7,881	3,644
Lake Trout	57,908	19,387	<i>21,639</i>	<i>12,234*</i>	28,949	13,973	a	a
Bluegill/Sunfish	53,585	23,692	a	a	25,930	11,987	a	a
Bullheads, Catfish	34,825	11,679	a	a	25,816	11,453	a	a
Northern Pike	a	a	a	a	a	a	a	a
Pickereel	a	a	a	a	a	a	a	a
Crappie (calico bass)	a	a	a	a	a	a	a	a
Tiger Muskie	a	a	a	a	a	a	a	a
Landlocked Atlantic Salmon	a	a	a	a	a	a	a	a
Carp	a	a	a	a	a	a	a	a
Shad	a	a	a	a	a	a	a	a
Other	a	a	a	a	a	a	a	a
No specific species	78,869	25,696	a	a	58,753	23,867	9,653	4,233

*Note: Confidence limit exceeds 50% of the estimate. Therefore, the accuracy of the estimate is very limited in our opinion. The number of angler days and associated confidence interval are italicized to emphasize this point.

^aNo estimate is reported because the sample size was 10 or fewer anglers, or the distribution of responses violated the assumption of normality, making an estimate of the confidence interval inaccurate.

Table 12. Estimated number of angler days by phase and in total for 2007, by species sought in Region 5.

Species	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Black Bass (small or largemouth)	715,278	89,204	63,310	26,952	567,947	81,928	84,020	22,775
Trout (brook, brown, rainbow)	505,948	58,378	126,274	24,634	318,029	51,031	61,644	14,034
Yellow Perch	308,802	137,230	a	a	a	a	44,582	16,655
Lake Trout	212,982	43,986	39,503	8,942	143,752	42,020	29,727	9,439
Northern Pike	206,918	50,099	46,910	22,517	137,711	44,430	22,297	5,370
Walleye	164,048	39,465	a	a	100,561	29,583	33,047	11,758
Landlocked Atlantic Salmon	80,128	28,578	<i>11,974</i>	<i>6,663*</i>	<i>49,152</i>	<i>26,458*</i>	19,003	8,502
Bullheads, Catfish	79,958	35,066	a	a	42,969	21,855*	a	a
Bluegill/Sunfish	68,119	22,163	a	a	43,051	12,812	a	a
Pickrel	31,216	10,243	a	a	22,156	9,138	a	a
Crappie (calico bass)	a	a	a	a	a	a	a	a
Muskie	a	a	a	a	a	a	a	a
Tiger Muskie	a	a	a	a	a	a	a	a
Steelhead Trout	a	a	a	a	a	a	a	a
Carp	a	a	a	a	a	a	a	a
Other	a	a	a	a	a	a	a	a
No specific species	163,720	42,294	15,786	6,283	128,160	39,843	a	a

*Note: Confidence limit exceeds 50% of the estimate. Therefore, the accuracy of the estimate is very limited in our opinion. The number of angler days and associated confidence interval are italicized to emphasize this point.
^aNo estimate is reported because the sample size was 10 or fewer anglers, or the distribution of responses violated the assumption of normality, making an estimate of the confidence interval inaccurate.

Table 13. Estimated number of angler days by phase and in total for 2007, by species sought in Region 6 (broken down by inland versus Great Lakes waters).

Species	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Inland Waters								
Black Bass (small or largemouth)	627,508	93,605	67,568	23,892	483,394	88,411	76,546	19,353
Walleye	430,753	108,369	119,529	51,477	228,537	89,159	82,687	33,833
Trout (brook, brown, rainbow)	365,342	69,468	91,416	25,601	212,510	59,157	61,416	25,898
Northern Pike	261,103	48,592	71,646	25,981	141,833	31,857	47,624	25,909*
Yellow Perch	210,729	40,661	78,195	26,018	100,209	28,397	32,325	13,037
Bullheads, Catfish	110,066	48,622	40,808	15,729	a	a	a	a
Crappie (calico bass)	102,400	29,046	25,221	9,707	61,329	25,089	a	a
Bluegill/Sunfish	94,274	25,322	a	a	52,984	17,914	a	a
Lake Trout	71,075	35,393*	a	a	29,792	17,562*	a	a
Muskie	27,942	11,617	a	a	13,497	3,932	a	a
Pickrel	a	a	a	a	a	a	a	a
Tiger Muskie	a	a	a	a	a	a	a	a
Steelhead Trout	a	a	a	a	a	a	a	a
Coho/Chinook Salmon	a	a	a	a	a	a	a	a
Landlocked Atlantic Salmon	a	a	a	a	a	a	a	a
Carp	a	a	a	a	a	a	a	a
Other	a	a	a	a	a	a	a	a
No specific species	140,876	39,733	a	a	110,946	38,414	13,775	5,138

Table 13. (cont.)								
Species	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Great Lakes								
Black Bass (small or largemouth)	104,178	34,034	a	a	82,436	32,947	<i>13,819</i>	<i>8,077*</i>
Yellow Perch	49,502	15,216	<i>14,223</i>	<i>7,846*</i>	26,548	10,021	a	a
Walleye	39,969	13,779	8,864	2,482	28,031	13,459	a	a
Northern Pike	29,814	14,300	a	a	<i>20,623</i>	<i>13,871*</i>	a	a
Coho/Chinook Salmon	18,958	b	a	a	<i>14,386</i>	<i>8,109*</i>	<i>4,571</i>	<i>2,323*</i>
Steelhead Trout	a	a	a	a	a	a	a	a
Trout (brook, brown, rainbow)	a	a	a	a	a	a	a	a
Landlocked Atlantic Salmon	a	a	a	a	a	a	a	a
Bluegill/Sunfish	a	a	a	a	a	a	a	a
Lake Trout	a	a	a	a	a	a	a	a
Crappie (calico bass)	a	a	a	a	a	a	a	a
Bullheads, Catfish	a	a	a	a	a	a	a	a
Other	a	a	a	a	a	a	a	a
No specific species	a	a	a	a	a	a	a	a
<p>*Note: Confidence limit exceeds 50% of the estimate. Therefore, the accuracy of the estimate is very limited in our opinion. The number of angler days and associated confidence interval are italicized to emphasize this point.</p> <p>^aNo estimate is reported because the sample size was 10 or fewer anglers, or the distribution of responses violated the assumption of normality, making an estimate of the confidence interval inaccurate.</p> <p>^bA confidence interval could not be calculated for this estimate because the sample in one of the Phases was zero.</p>								

Table 14. Estimated number of angler days by phase and in total for 2007, by species sought in Region 7 (broken down by inland versus Great Lakes waters).

Species	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, \pm	Number	Confidence Limits, \pm	Number	Confidence Limits, \pm	Number	Confidence Limits, \pm
Inland Waters								
Black Bass (small or largemouth)	558,609	91,098	63,941	25,464	419,197	85,465	75,472	18,602
Walleye	445,012	71,039	152,391	38,620	188,604	49,759	104,017	32,849
Trout (brook, brown, rainbow)	415,105	68,528	133,298	24,219	181,177	51,218	100,630	38,552
Yellow Perch	259,642	58,901	107,845	38,583	114,270	43,339	37,526	10,118
Bluegill/Sunfish	161,842	44,419	68,584	35,785*	54,104	15,863	39,154	20,998*
Lake Trout	117,389	54,103	16,937	9,805*	a	a	16,764	7,399
Bullheads/Catfish	97,311	24,203	30,755	9,779	50,392	20,735	16,165	7,758
Northern Pike	71,574	20,470	17,957	7,699	42,872	18,098	10,745	5,675*
Crappie (calico bass)	58,520	15,239	33,716	14,012	a	a	12,569	4,375
Landlocked Atlantic Salmon	31,535	10,541	a	a	a	a	14,416	8,371*
Pickrel	18,718	6,084	a	a	a	a	a	a
Coho/Chinook Salmon	14,211	5,969	a	a	a	a	9,494	5,802*
Muskie	a	a	a	a	a	a	a	a
Tiger Muskie	a	a	a	a	a	a	a	a
Steelhead Trout	a	a	a	a	a	a	a	a
Carp	a	a	a	a	a	a	a	a
Striped Bass (freshwater only)	a	a	a	a	a	a	a	a
Other	a	a	a	a	a	a	a	a
No specific species	150,530	40,774	39,346	25,389*	98,314	31,401	12,870	5,648

Table 14. (cont.).								
Species	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Great Lakes								
Coho/Chinook Salmon	308,038	44,646	29,605	12,273	147,803	32,455	130,630	28,096
Steelhead Trout	181,648	34,553	60,196	16,306	<i>46,350</i>	<i>26,967*</i>	75,102	14,170
Black Bass (small or largemouth)	<i>120,918</i>	<i>70,361*</i>	a	a	69,480	24,585	11,518	4,034
Trout (brook, brown, rainbow)	106,333	29,206	23,738	10,075	42,573	20,086	40,022	18,657
Yellow Perch	60,455	29,139	a	a	a	a	a	a
Landlocked Atlantic Salmon	41,376	14,167	a	a	<i>24,163</i>	<i>13,792*</i>	15,282	3,154
Walleye	37,733	12,826	a	a	<i>21,172</i>	<i>11,147*</i>	a	a
Bluegill/Sunfish	a	a	a	a	a	a	a	a
Crappie (calico bass)	a	a	a	a	a	a	a	a
Northern Pike	a	a	a	a	a	a	a	a
Bullheads, Catfish	a	a	a	a	a	a	a	a
Lake Trout	a	a	a	a	a	a	a	a
Other	a	a	a	a	a	a	a	a
No specific species	a	a	a	a	a	a	a	a
*Note: Confidence limit exceeds 50% of the estimate. Therefore, the accuracy of the estimate is very limited in our opinion. The number of angler days and associated confidence interval are italicized to emphasize this point.								
^a No estimate is reported because the sample size was 10 or fewer anglers, or the distribution of responses violated the assumption of normality, making an estimate of the confidence interval inaccurate.								

Table 15. Estimated number of angler days by phase and in total for 2007, by species sought in Region 8 (broken down by inland versus Great Lakes waters).

Species	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Inland Waters								
Black Bass (small or largemouth)	484,836	73,022	46,038	11,131	350,805	70,094	87,993	17,117
Trout (brook, brown, rainbow)	345,171	73,406	98,395	26,865	160,872	59,888	85,903	32,865
Yellow Perch	206,581	38,912	77,820	24,000	76,246	22,725	52,515	20,535
Bluegill/Sunfish	178,472	71,974	a	a	a	a	a	a
Lake Trout	163,939	28,416	40,106	9,756	77,188	21,703	46,644	15,533
Walleye	99,181	73,263*	12,781	3,914	a	a	22,377	7,103
Bullheads, Catfish	92,513	32,807	21,990	9,292	47,693	27,061*	a	a
Crappie (calico bass)	87,521	47,705*	22,468	8,864	a	a	a	a
Northern Pike	86,818	25,660	23,497	9,888	45,457	23,097*	17,863	5,218
Steelhead Trout	49,261	19,621	a	a	a	a	26,929	16,347*
Pickrel	a	a	a	a	a	a	a	a
Muskie	a	a	a	a	a	a	a	a
Tiger Muskie	a	a	a	a	a	a	a	a
Coho/Chinook Salmon	a	a	a	a	a	a	a	a
Landlocked Atlantic Salmon	a	a	a	a	a	a	a	a
Carp	a	a	a	a	a	a	a	a
Other	a	a	a	a	a	a	a	a
No specific species	153,768	54,584	a	a	115,375	50,922	8,091	3,591

Table 15. (cont.)								
Species	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Great Lakes								
Black Bass (small or largemouth)	203,477	43,441	17,028	6,151	165,627	42,102	20,821	8,757
Yellow Perch	180,904	52,824	73,989	30,880	75,088	41,250*	31,827	11,627
Coho/Chinook Salmon	178,527	48,376	20,472	13,137*	130,797	46,245	27,258	5,391
Steelhead Trout	124,637	42,422	a	a	64,599	36,207*	33,508	13,367
Trout (brook, brown, rainbow)	87,260	22,105	22,119	11,251*	36,789	17,539	28,352	7,378
Bluegill/Sunfish	43,038	20,991	a	a	a	a	a	a
Northern Pike	36,545	17,186	a	a	a	a	a	a
Lake Trout	24,868	6,834	a	a	16,012	5,402	a	a
Bullheads, Catfish	15,181	4,287	a	a	7,097	2,551	a	a
Crappie (calico bass)	a	a	a	a	a	a	a	a
Landlocked Atlantic Salmon	a	a	a	a	a	a	a	a
Walleye	a	a	a	a	a	a	a	a
Other	a	a	a	a	a	a	a	a
No specific species	54,594	20,115	a	a	42,568	19,273	a	a
*Note: Confidence limit exceeds 50% of the estimate. Therefore, the accuracy of the estimate is very limited in our opinion. The number of angler days and associated confidence interval are italicized to emphasize this point.								
^a No estimate is reported because the sample size was 10 or fewer anglers, or the distribution of responses violated the assumption of normality, making an estimate of the confidence interval inaccurate.								

Table 16. Estimated number of angler days by phase and in total for 2007, by species sought in Region 9 (broken down by inland versus Great Lakes waters).

Species	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Inland Waters								
Trout (brook, brown, rainbow)	403,111	77,485	118,500	24,312	212,412	67,464	72,199	29,352
Walleye	301,276	83,587	84,132	41,891	176,295	70,220	40,848	17,350
Black Bass (small or largemouth)	298,679	59,670	50,522	15,796	200,552	54,337	47,605	18,934
Bluegill/Sunfish	132,661	30,650	38,115	16,432	74,104	21,661	a	a
Yellow Perch	129,908	31,870	56,930	23,369	56,470	20,641	16,508	6,598
Steelhead Trout	122,602	25,811	47,764	12,842	a	a	41,371	11,838
Crappie (calico bass)	122,117	32,756	56,398	16,754	52,825	26,254	a	a
Northern Pike	74,082	30,147	20,240	10,189*	a	a	8,693	3,399
Lake Trout	24,772	7,632	a	a	a	a	a	a
Bullheads, Catfish	a	a	a	a	a	a	a	a
Muskie	a	a	a	a	a	a	a	a
Tiger Muskie	a	a	a	a	a	a	a	a
Carp	a	a	a	a	a	a	a	a
Other	a	a	a	a	a	a	a	a
No specific species	93,932	43,838	19,954	9,237	64,354	42,535*	9,624	5,218*

Table 16. (cont.)								
Species	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Great Lakes								
Walleye	329,093	63,302	<i>54,482</i>	<i>28,971*</i>	205,187	46,897	69,424	31,120
Black Bass (small or largemouth)	320,786	78,703	<i>96,119</i>	<i>53,088*</i>	186,584	56,824	38,083	12,120
Steelhead Trout	162,731	29,571	69,495	24,664	35,367	9,993	57,869	12,895
Yellow Perch	154,616	32,660	59,137	20,048	68,256	24,739	27,223	7,264
Trout (brook, brown, rainbow)	90,513	24,875	<i>38,765</i>	<i>20,842*</i>	27,334	8,746	24,415	10,388
Coho/Chinook Salmon	82,250	19,297	<i>23,125</i>	<i>13,741*</i>	36,041	11,349	23,084	7,402
Lake Trout	42,525	12,482	12,321	2,645	<i>16,690</i>	<i>9,760*</i>	<i>13,514</i>	<i>7,317*</i>
Northern Pike	30,013	8,510	<i>8,638</i>	<i>4,503*</i>	14,107	7,028	7,268	1,659
Bluegill/Sunfish	a	a	a	a	a	a	a	a
Landlocked Atlantic Salmon	a	a	a	a	a	a	a	a
Crappie (calico bass)	a	a	a	a	a	a	a	a
Bullheads, Catfish	a	a	a	a	a	a	a	a
Other	a	a	a	a	a	a	a	a
No specific species	85,270	29,178	<i>14,682</i>	<i>8,577*</i>	49,595	23,698	a	a
*Note: Confidence limit exceeds 50% of the estimate. Therefore, the accuracy of the estimate is very limited in our opinion. The number of angler days and associated confidence interval are italicized to emphasize this point.								
^a No estimate is reported because the sample size was 10 or fewer anglers, or the distribution of responses violated the assumption of normality, making an estimate of the confidence interval inaccurate.								

Table 17. Estimated number of angler days by phase and in total for 2007, by region fished for Great Lakes and inland waters.

Region/ Water body Type	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
<i>Region 6</i>								
Inland	2,399,826	183,683	566,480	87,887	1,470,394	152,907	362,952	51,329
Great Lakes	278,246	44,251	52,273	12,114	181,108	39,714	44,866	15,303
<i>Region 7</i>								
Inland	2,531,885	180,814	767,786	100,363	1,259,772	135,834	504,328	64,575
Great Lakes	757,862	89,111	193,055	56,184	322,935	60,244	241,872	33,980
<i>Region 8</i>								
Inland	2,085,062	177,600	494,169	71,293	1,130,973	149,455	459,920	64,206
Great Lakes	826,931	103,885	179,181	43,123	520,828	91,464	126,922	23,811
<i>Region 9</i>								
Inland	1,858,228	175,555	521,775	81,739	1,009,147	145,300	327,305	55,011
Great Lakes	1,307,546	142,491	313,997	69,666	705,572	111,677	287,977	54,576

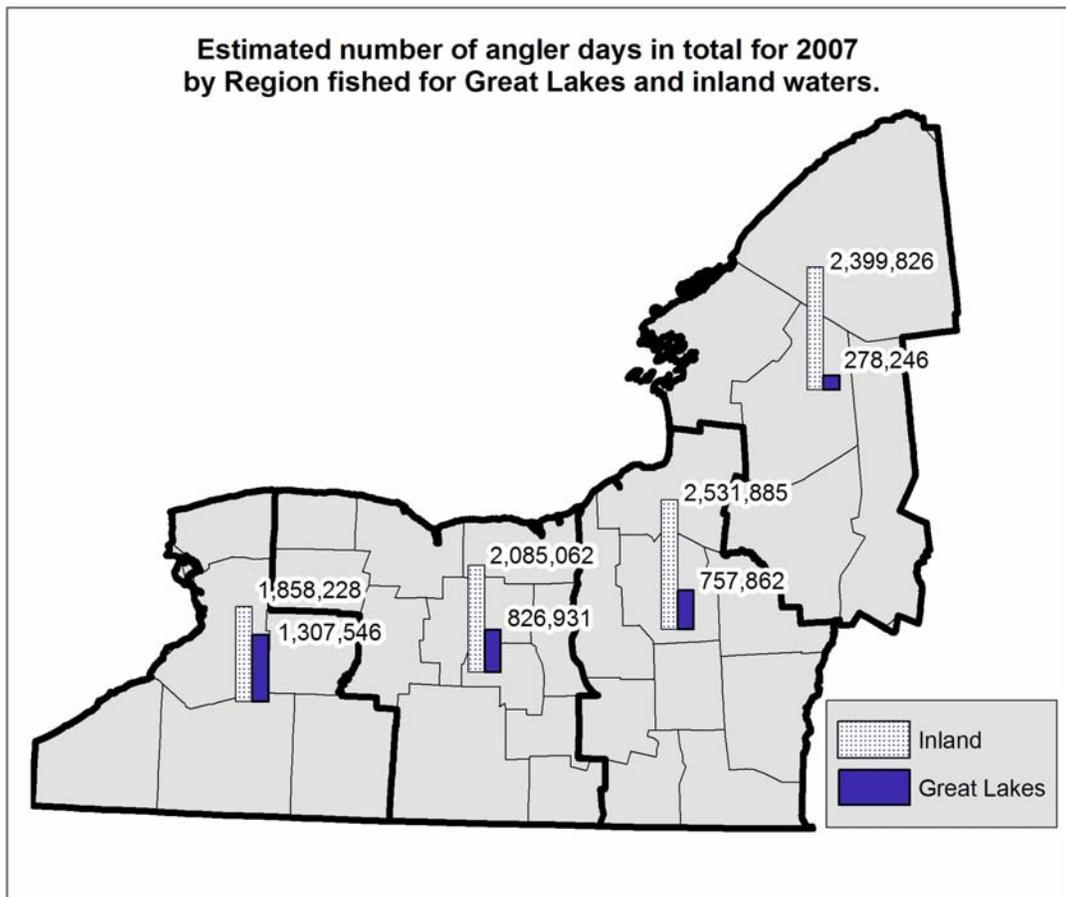


Table 18. Estimated number of angler days spent ice fishing versus open water fishing between Jan. 1 and May 31, 2007, in total and by region.		
Region/Type of Fishing	Angler Days	
	Jan.-May	
	Number	Confidence Limits \pm
<i>Statewide</i>		
Ice Fishing	836,287	88,521
Open Water	4,119,378	245,737
<i>Region 1</i>		
Ice Fishing	a	a
Open Water	89,849	23,733
<i>Region 2</i>		
Ice Fishing	a	a
Open Water	a	a
<i>Region 3</i>		
Ice Fishing	85,963	22,406
Open Water	590,614	87,039
<i>Region 4</i>		
Ice Fishing	<i>63,102</i>	<i>31,737*</i>
Open Water	332,252	55,986
<i>Region 5</i>		
Ice Fishing	156,768	41,204
Open Water	356,980	74,744
<i>Region 6</i>		
Ice Fishing	106,197	27,402
Open Water	491,008	68,295
<i>Region 7</i>		
Ice Fishing	145,012	31,150
Open Water	772,093	99,628
<i>Region 8</i>		
Ice Fishing	110,420	26,875
Open Water	533,705	70,036
<i>Region 9</i>		
Ice Fishing	113,317	23,310
Open Water	671,629	101,084
<p>* Note: Confidence limit exceeds 50% of the estimate. Therefore, the accuracy of the estimate is very limited in our opinion. The number of angler days and associated confidence interval are italicized to emphasize this point.</p> <p>^aNo estimate is reported because the sample size was 10 or fewer anglers, or the distribution of responses violated the assumption of normality, making an estimate of the confidence interval inaccurate.</p>		

Table 19. Estimated number of angler days by phase and in total for 2007, by region of residence and water body type for anglers fishing Region 1.

	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Region of Residence								
1	302,106	59,113	82,221	24,299	174,316	50,050	45,569	19,973
Other	56,577	18,875	15,780	7,609	37,714	16,832	*	*
Total	360,103	64,018	98,744	25,717	212,705	54,883	48,654	20,612
Water Body Type								
Lake/pond	104,890	39,735	*	*	*	*	*	*
River/stream	82,099	17,335	30,139	9,403	43,553	13,250	*	*
Unclassifiable	174,014	33,339	46,952	15,151	106,454	27,687	*	*

*Confidence limit more than 50% of estimate.

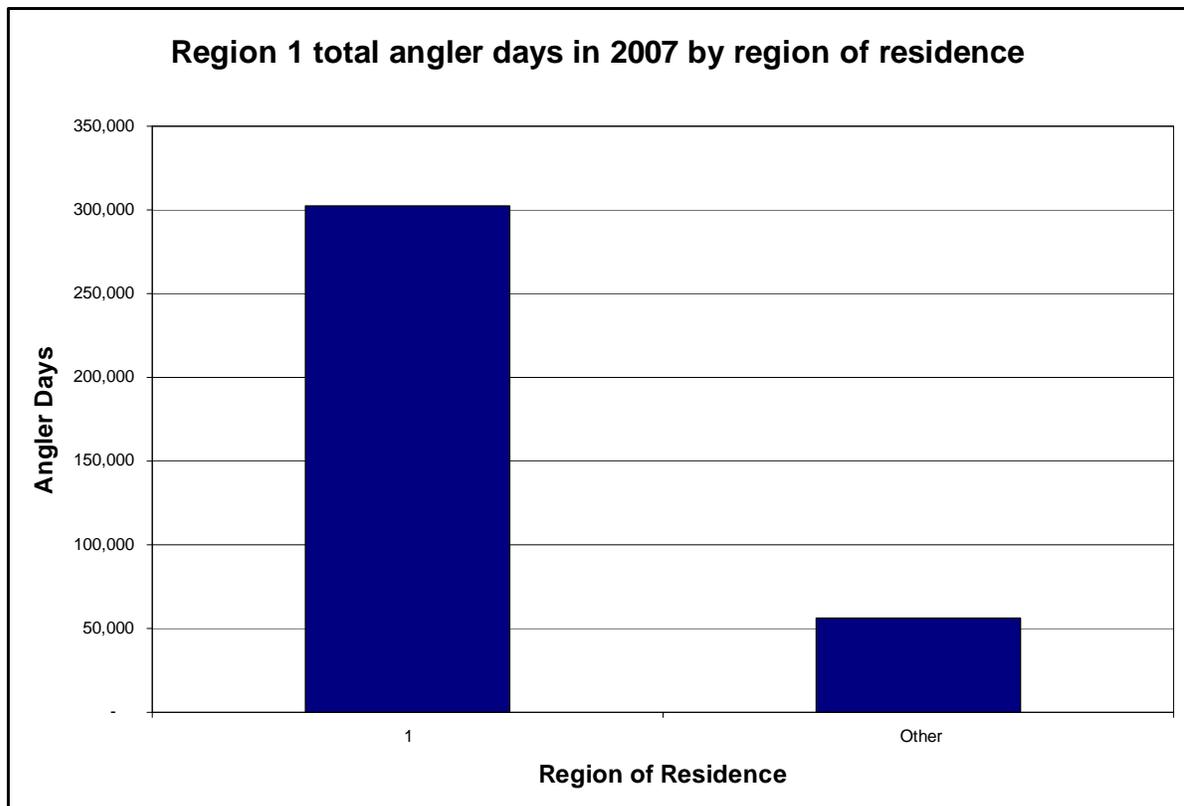


Table 20. Estimated number of angler days by phase and in total for 2007, by region of residence and water body type for anglers fishing Region 2.

	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, \pm	Number	Confidence Limits, \pm	Number	Confidence Limits, \pm	Number	Confidence Limits, \pm
<i>Region of Residence</i>								
2	*	*	4,152	1,689	*	*	*	*
Other	*	*	577	218	*	*	*	*
Total	29,319	19,520	5,100	1,916	*	*	*	*
<i>Water Body Type</i>								
Lake/pond	7,411	2,923	*	*	*	*	*	*
River/stream	*	*	*	*	*	*	*	*
Unclassifiable	*	*	*	*	*	*	*	*
*Confidence limit more than 50% of estimate.								

Table 21. Estimated number of angler days by phase and in total for 2007, by region of residence and water body type for anglers fishing Region 3.

	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Region of Residence								
1	89,004	24,271	*	*	59,551	19,284	*	*
2	109,874	23,868	31,572	15,528	52,722	13,427	25,580	12,176
3	1,839,895	172,666	598,954	99,054	944,445	127,361	296,496	61,490
Other regions	86,044	20,234	25,030	8,856	48,789	17,519	12,225	4,905
Out-of state	130,269	37,424	*	*	68,690	27,821	*	*
Total	2,252,597	185,104	713,436	104,810	1,173,693	138,047	365,468	64,974
Water Body Type								
Lake/pond	920,880	115,587	283,798	66,558	497,026	88,789	140,056	32,357
River/stream	875,336	87,716	272,669	43,440	451,430	65,815	151,237	38,412
Unclassifiable	468,585	57,987	160,948	33,711	232,737	43,867	74,899	17,371

* Confidence limit more than 50% of estimate.

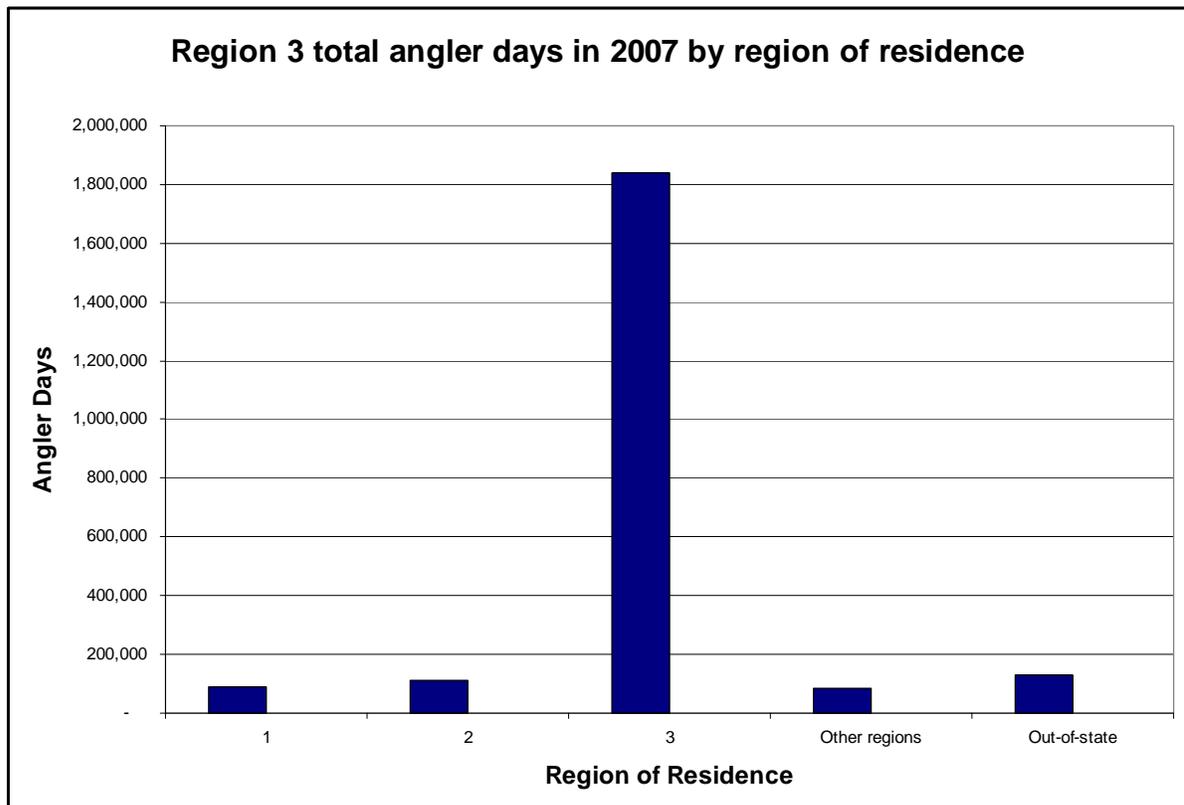


Table 22. Estimated number of angler days by phase and in total for 2007, by region of residence and water body type for anglers fishing Region 4.

	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, \pm	Number	Confidence Limits, \pm	Number	Confidence Limits, \pm	Number	Confidence Limits, \pm
Region of Residence								
1	53,734	16,532	*	*	36,970	15,063	*	*
2	52,148	16,828	20,118	10,036	28,642	13,421	3,388	1,525
3	139,349	52,982	38,183	13,751	*	*	*	*
4	828,846	96,425	251,008	59,528	456,102	72,571	121,736	22,081
5	77,422	34,228	*	*	*	*	*	*
6	30,712	9,040	3,690	1,343	15,888	7,214	11,133	5,280
7	77,823	27,979	*	*	*	*	*	*
Other regions	*	*	*	*	*	*	*	*
Out-of State	119,575	32,838	*	*	63,337	21,734	*	*
Total	1,410,128	127,697	395,144	68,567	798,772	103,199	216,212	30,903
Water Body Type								
Lake/pond	471,688	60,565	132,570	34,945	265,170	46,637	73,948	16,492
River/stream	752,476	97,818	211,850	44,465	435,787	84,333	104,839	21,893
Unclassifiable	187,517	24,747	50,207	11,638	99,316	20,137	37,995	8,454

*Confidence limit more than 50% of estimate.

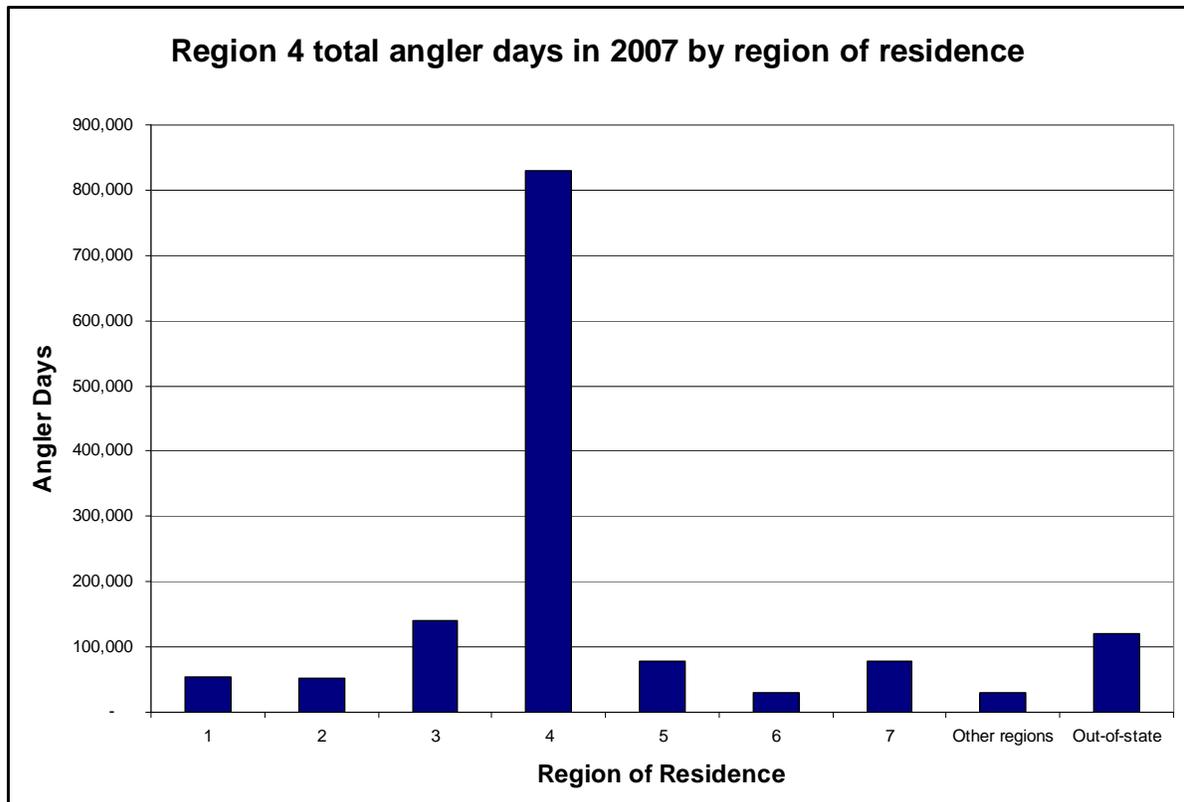


Table 23. Estimated number of angler days by phase and in total for 2007, by region of residence and water body type for anglers fishing Region 5.

	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Region of Residence								
1	38,684	8,327	*	*	27,031	4,667	*	*
2	16,953	4,383	2,624	279	13,241	4,292	*	*
3	147,682	27,248	32,639	9,730	97,182	24,820	17,861	5,636
4	446,623	66,161	109,753	39,787	279,518	51,308	57,352	12,715
5	1,345,150	159,815	304,340	84,696	833,377	130,523	207,433	36,485
6	102,123	25,259	33,376	15,953	55,919	18,663	12,827	5,937
7	113,358	38,605	13,975	4,954	88,405	38,021	10,978	4,497
8	52,156	13,758	4,403	2,013	40,976	13,164	*	*
9	49,975	23,473	4,497	1,875	28,086	7,585	*	*
Out-of State	225,616	32,306	29,102	13,655	183,128	28,945	13,386	4,403
Total	2,530,014	192,222	541,451	98,245	1,642,477	158,714	346,086	45,901
Water Body Type								
Lake/pond	1,707,045	150,577	339,888	69,758	1,129,826	129,075	237,330	33,865
River/stream	544,432	69,205	130,405	40,209	332,747	50,989	81,281	23,931
Unclassifiable	283,430	38,589	71,920	23,050	183,709	30,461	27,801	5,471

* Confidence limit more than 50% of estimate.

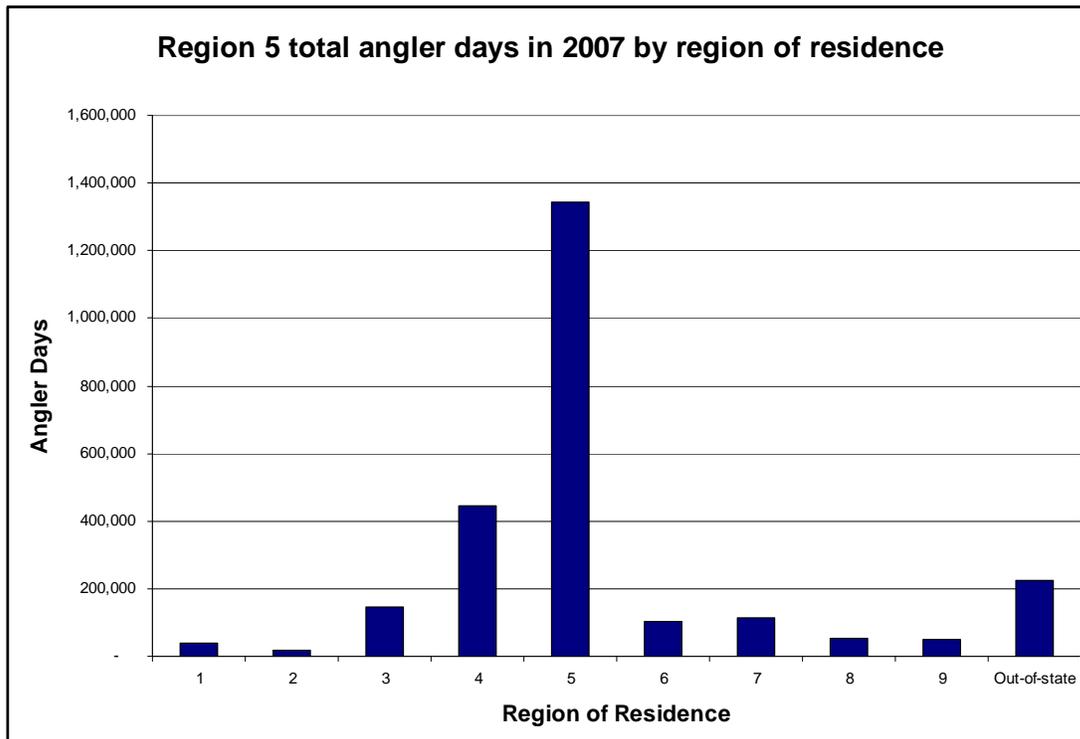


Table 24. Estimated number of angler days by phase and in total for 2007, by region of residence and water body type for anglers fishing Region 6.

	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, \pm	Number	Confidence Limits, \pm	Number	Confidence Limits, \pm	Number	Confidence Limits, \pm
Region of Residence								
4	61,281	19,067	10,489	3,675	34,993	15,541	*	*
5	*	*	*	*	*	*	8,386	2,453
6	1,437,692	138,149	380,623	65,245	805,120	111,539	251,948	48,860
7	411,718	67,933	111,148	33,846	240,511	56,651	60,059	16,125
8	239,488	52,419	31,507	13,982	183,619	49,473	24,363	10,234
9	90,052	39,726	*	*	*	*	9,923	3,029
Other regions	82,112	34,314	10,313	3,341	*	*	*	*
Out-of state	286,658	56,947	17,255	6,658	244,256	55,841	25,147	8,968
Total	2,674,411	191,275	618,789	88,778	1,649,628	159,821	405,993	56,230
Water Body Type								
Lake/pond	1,102,896	109,066	259,434	46,140	676,419	94,353	167,043	29,397
River/stream	1,296,898	130,207	285,976	62,856	814,008	109,277	196,914	32,580
Unclassifiable	283,784	47,982	72,406	20,891	163,571	38,348	47,807	19,882

* Confidence limit more than 50% of estimate.

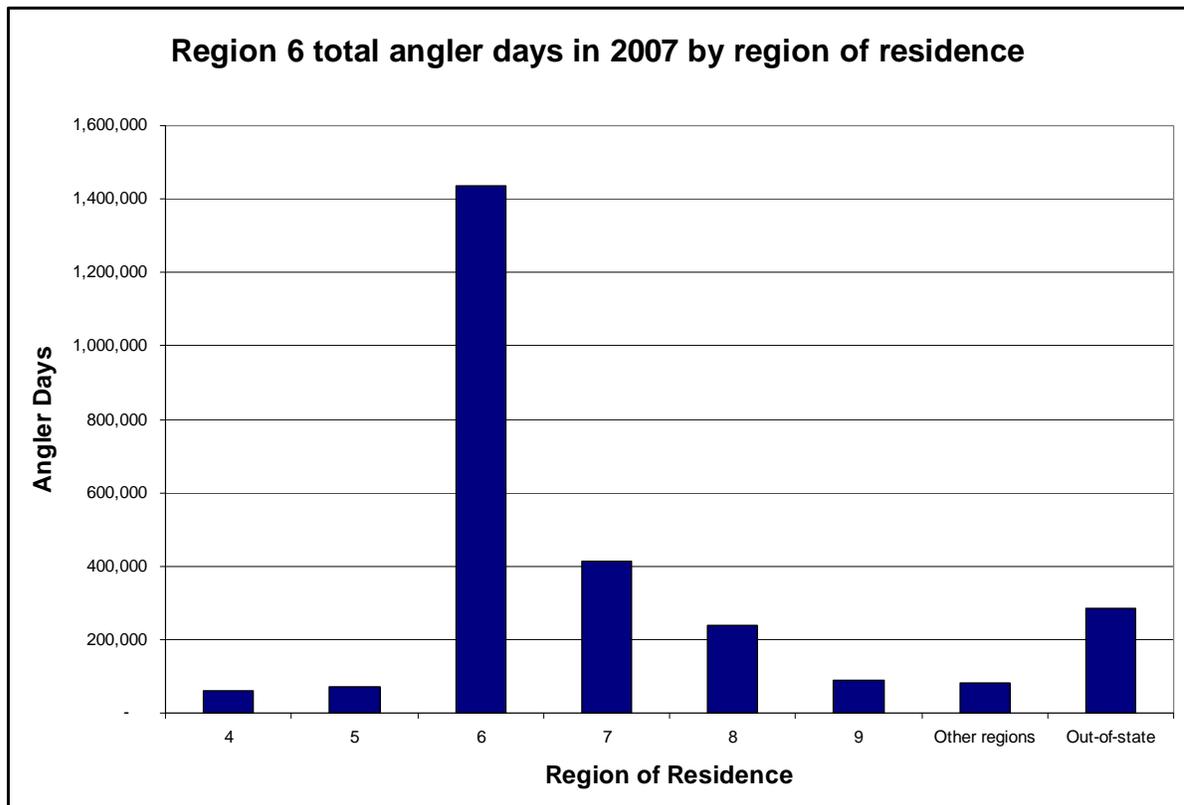


Table 25. Estimated number of angler days by phase and in total for 2007, by region of residence and water body type for anglers fishing Region 7.

	Angler Days							
	Total		Jan. May		June-Sept.		Oct.-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Region of Residence								
3	92,340	41,257	7,992	1,537	*	*	29,781	13,069
4	69,625	27,152	12,109	3,359	*	*	22,690	9,393
5	23,162	10,772	*	*	6,646	2,915	8,345	4,100
6	166,485	42,852	47,069	12,439	66,091	31,877	53,325	25,795
7	2,379,172	184,804	766,747	110,201	1,146,726	131,150	465,699	69,340
8	144,084	26,846	25,959	8,725	75,242	19,360	42,883	16,424
Other regions	46,069	14,947	*	*	*	*	11,725	3,565
Out-of-state	357,367	60,079	77,176	26,699	167,226	50,845	112,965	17,645
Total	3,275,457	214,999	959,007	118,294	1,572,535	159,966	743,915	81,497
Water Body Type								
Lake/pond	1,879,566	163,389	543,620	91,470	985,339	122,949	350,608	56,681
River/stream	1,129,454	102,468	314,300	54,438	484,661	75,136	330,493	43,483
Unclassifiable	269,865	39,502	101,445	27,878	104,263	21,854	64,157	17,483

* Confidence limit more than 50% of estimate.

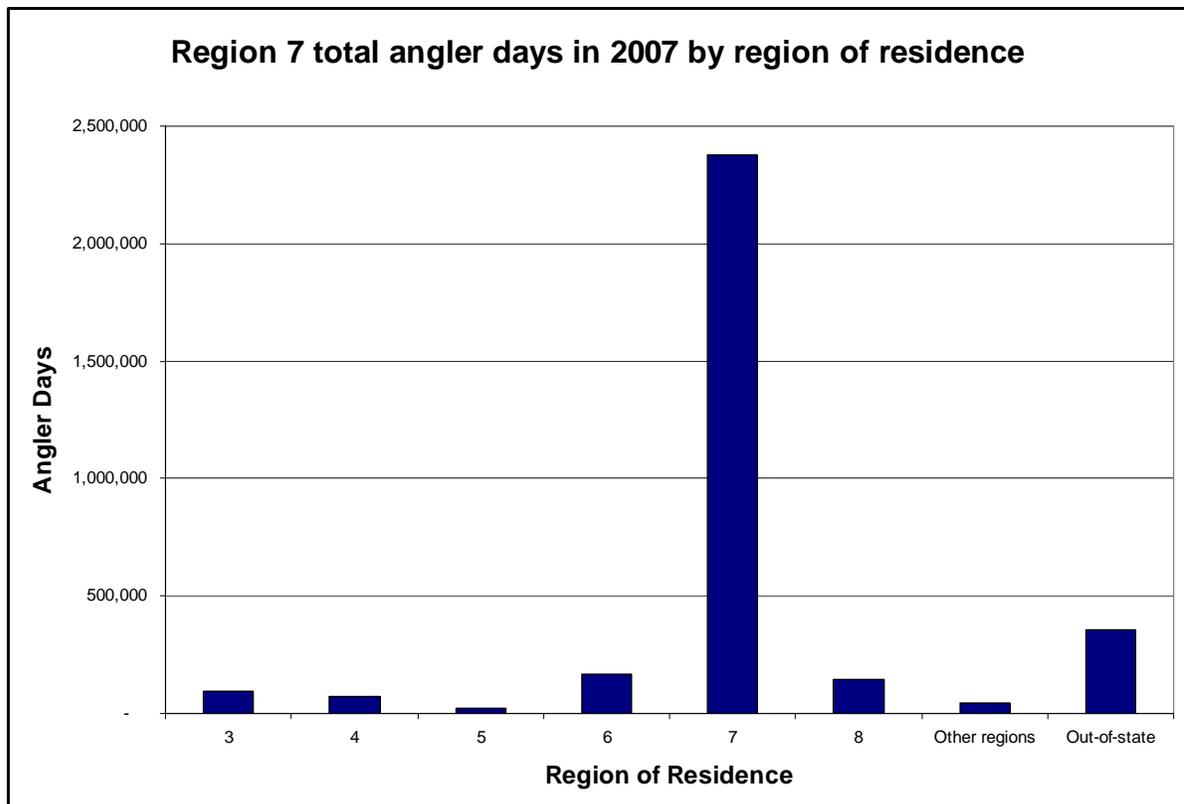


Table 26. Estimated number of angler days by phase and in total for 2007, by region of residence and water body type for anglers fishing Region 8.

	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Region of Residence								
7	100,864	25,735	49,705	21,470	34,584	11,723	16,575	7,994
8	2,363,807	206,289	532,622	82,171	1,361,714	177,707	469,471	64,987
9	207,792	42,677	36,326	10,630	132,041	37,366	39,425	17,666
Other regions	78,317	22,400	24,052	7,370	30,619	13,796	*	*
Out-of state	168,557	31,702	30,644	8,720	101,604	28,469	36,310	10,886
Total	2,916,539	221,890	673,246	88,250	1,657,027	190,344	586,266	72,225
Water Body Type								
Lake/pond	1,885,036	160,777	428,123	70,918	1,137,626	136,877	319,286	45,659
River/stream	650,924	82,994	145,841	29,489	323,130	69,271	181,953	34,928
Unclassifiable	374,465	70,236	100,344	25,877	190,225	59,691	83,896	26,464

*Confidence limit more than 50% of estimate.

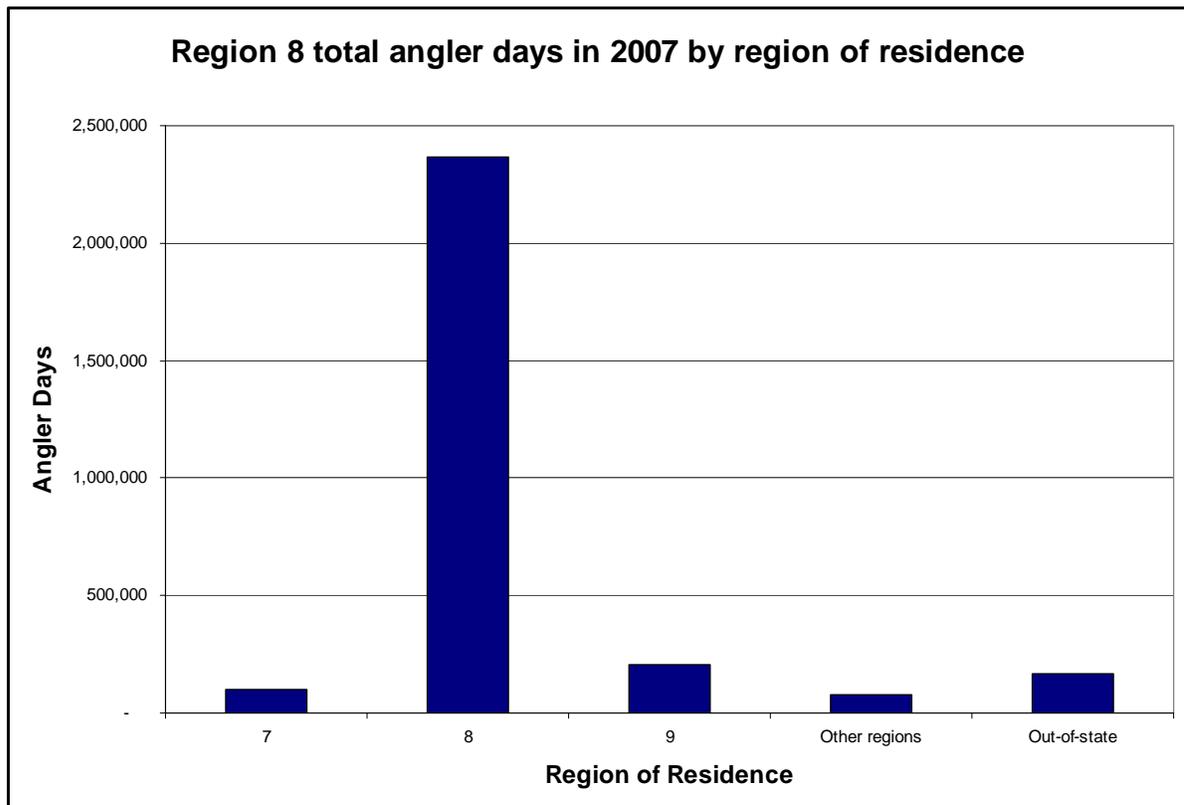


Table 27. Estimated number of angler days by phase and in total for 2007, by region of residence and water body type for anglers fishing Region 9.

	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Region of Residence								
8	129,003	36,720	32,647	15,396	78,043	31,475	*	*
9	2,732,983	232,010	717,762	112,447	1,461,447	186,884	553,774	79,110
Other regions	88,072	28,658	39,439	17,744	*	*	*	*
Out-of state	215,094	46,783	42,646	13,688	144,811	43,736	27,637	9,402
Total	3,163,369	245,088	832,163	115,993	1,717,226	199,683	613,980	82,100
Water Body Type								
Lake/pond	1,604,567	132,477	424,013	63,456	905,940	107,706	274,613	43,851
River/stream	1,239,497	153,690	345,884	79,986	613,439	122,761	280,174	46,398
Unclassifiable	335,769	78,855	68,912	18,224	203,839	74,495	63,018	18,344

*Confidence limit more than 50% of estimate.

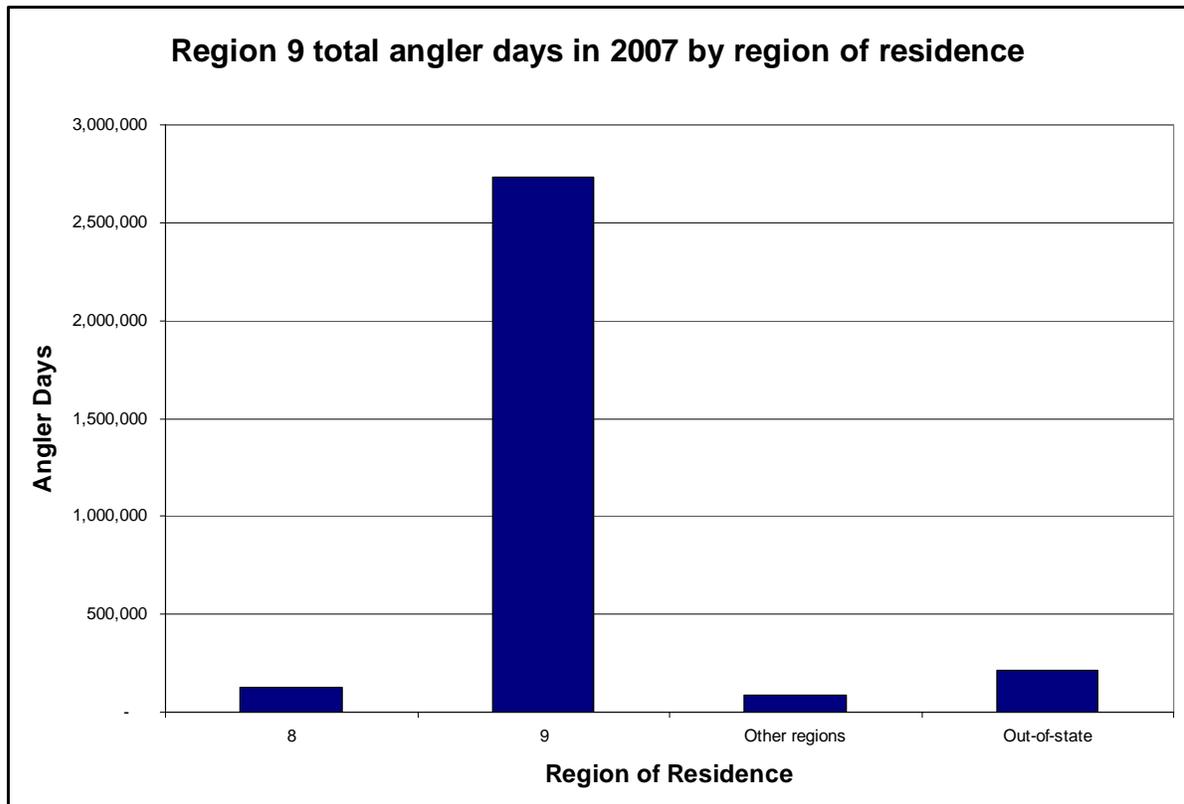


Table 28. Estimated number of angler days by phase and in total for 2007, for major waters.^a

Water Body	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
1 Lake Ontario	1,314,066	110,172	287,269	52,034	807,972	91,008	218,825	33,880
2 Oneida Lake	786,401	103,944	250,012	56,201	370,263	80,980	166,126	32,985
3 Lake Erie	657,821	78,427	161,747	38,263	370,110	62,316	125,964	28,346
4 St. Lawrence River	651,455	75,615	121,592	27,272	434,962	68,316	94,901	17,512
5 Hudson River	470,731	61,770	152,440	27,980	240,708	52,686	77,584	16,027
Lower	355,109	57,562	124,990	26,913	172,054	48,774	58,065	14,498
Upper	78,989	17,941	9,421	3,936	55,727	16,942	13,841	4,399
6 Chautauqua Lake	413,961	69,949	130,791	35,208	236,570	58,448	46,601	15,397
7 Niagara River	369,449	67,223	86,066	30,699	197,379	54,618	86,003	24,358
Lower	194,811	47,881	*	*	95,301	34,328	56,082	22,950
Upper	172,888	43,562	39,428	17,936	99,423	37,829	34,037	12,040
8 Seneca Lake	340,290	54,752	102,669	29,673	155,971	41,335	81,651	20,217
9 Salmon River**	332,827	31,734	74,699	18,189	98,051	18,747	160,077	18,020
10 Cayuga Lake	295,920	43,346	66,483	15,975	175,295	38,334	54,142	12,417
11 Lake George	289,011	41,755	63,157	14,046	192,602	37,289	33,252	12,478
12 Lake Champlain	277,759	52,105	74,042	29,872	157,130	39,540	46,587	16,102
13 Mohawk River	219,735	47,375	*	*	140,139	38,913	49,187	17,609
14 Black Lake**	219,659	39,420	54,012	22,689	141,899	31,888	23,748	4,717
15 Erie Canal	188,825	53,382	23,488	9,608	136,925	51,232	28,413	11,516
16 Keuka Lake	178,340	45,040	30,623	7,400	114,005	42,906	33,713	11,529
17 Susquehanna River	174,897	37,392	36,586	13,649	103,871	32,175	34,440	13,290
18 Great Sacandaga Lake	160,513	29,536	29,703	10,412	108,613	26,447	22,197	8,032
19 Oswego River	159,089	44,320	*	*	89,205	36,990	29,740	7,203
20 Saratoga Lake	148,840	41,333	*	*	100,008	34,894	19,655	7,119

Table 28. (cont.)								
Water Body	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
21 Cattaraugus Creek	147,905	29,845	39,721	12,115	65,660	25,217	42,524	10,396
22 Genesee River	143,952	36,549	*	*	48,621	14,421	37,714	12,807
23 Canandaigua Lake	133,966	41,883	*	*	73,741	32,803	26,207	9,313
24 Delaware River	128,344	22,903	40,862	11,952	66,445	17,494	21,037	8,699
25 Beaver Kill**	114,285	35,963	25,367	9,776	78,910	34,288	10,008	4,704
26 Seneca River	109,777	30,003	*	*	55,598	21,951	26,203	11,736
27 Black River**	107,090	34,685	18,477	6,555	78,452	33,904	10,161	3,248
28 Honeoye Lake	106,804	33,695	15,163	5,098	76,620	32,407	*	*
29 Silver Lake**	102,994	24,485	30,263	11,046	57,972	19,964	*	*
30 West Canada Creek	97,873	25,946	21,948	8,255	61,055	21,282	*	*
31 West Branch Delaware River**	96,365	31,581	*	*	65,300	28,336	3,687	1,740
32 Sodus Bay	93,295	26,024	30,279	14,926	50,965	20,093	*	*
33 Irondequoit Bay	88,346	17,551	23,472	7,885	45,836	14,313	19,038	6,404
34 Conesus Lake	77,908	20,090	12,824	4,083	53,379	18,941	11,705	5,306
35 Delta Lake	75,359	19,978	24,735	10,027	39,802	16,621	10,822	4,725
36 Esopus Creek	73,764	14,924	24,848	6,788	35,272	12,175	13,644	5,329
37 Eighteenmile Creek (to L. Erie)	72,331	25,346	*	*	*	*	19,316	6,315
38 Oak Orchard Creek	72,068	16,043	*	*	31,731	13,756	32,433	7,109
39 Eighteenmile Creek (to L. Ontario)	70,752	21,965	7,123	2,699	*	*	28,845	9,064

Table 28. (cont.)								
Water Body	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, \pm	Number	Confidence Limits, \pm	Number	Confidence Limits, \pm	Number	Confidence Limits, \pm
40 Oatka Creek	70,354	24,291	*	*	42,194	19,308	*	*
41 Owasco Lake	69,480	24,698	*	*	*	*	12,827	5,933
42 Neversink River	66,727	23,324	*	*	29,748	10,041	*	*
43 Schroon Lake	66,295	19,979	*	*	42,757	14,533	6,195	2,478
44 Ashokan Reservoir	61,619	18,931	12,854	4,594	30,481	13,903	*	*
45 Lamoka Lake	61,229	29,175	*	*	39,842	18,079	*	*
46 Otisco Lake	60,705	23,603	*	*	*	*	*	*
47 Willowemoc Creek	60,215	19,397	17,474	7,901	38,733	17,376	*	*
48 North Pond/ Sandy Pond**	59,405	26,442	*	*	*	*	*	*
49 Canadarago Lake	57,757	20,279	*	*	27,752	11,416	*	*
50 Chemung River	56,339	20,624	*	*	*	*	*	*
51 Ninemile Creek**	56,284	23,370	*	*	*	*	*	*
52 East Branch Delaware River	56,152	15,056	*	*	34,275	11,562	*	*
53 Schoharie Creek	52,223	10,694	9,720	2,305	34,441	9,880	8,062	3,380
54 Waneta Lake**	52,037	18,766	*	*	38,751	17,816	*	*
55 Skaneateles Lake	51,789	18,983	17,982	8,491	*	*	14,939	6,044
56 Otsego Lake	51,510	17,993	*	*	*	*	7,136	3,098
57 Chenango River	50,954	15,312	*	*	21,395	10,035	10,220	4,706
58 Batten Kill	48,955	16,804	13,303	5,224	*	*	*	*
59 Rushford Lake	47,828	18,224	*	*	*	*	*	*
60 Raquette River**	47,160	20,610	*	*	*	*	*	*

Table 28. (cont.)								
Water Body	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, \pm	Number	Confidence Limits, \pm	Number	Confidence Limits, \pm	Number	Confidence Limits, \pm
61 Hemlock Lake**	46,286	14,841	*	*	22,898	10,901	*	*
62 Irondequoit Creek	46,164	10,343	12,962	5,991	20,656	7,036	12,546	4,646
63 Ausable River	45,951	8,420	7,131	2,605	30,148	7,457	8,672	2,916
64 Walkkill River	42,981	11,858	2,349	834	28,224	9,983	*	*
65 Onondaga Lake	41,985	18,865	4,360	2,133	*	*	*	*
66 Pepacton Reservoir	40,903	12,452	13,976	4,346	12,118	5,395	*	*
67 Whitney Point Reservoir	36,875	8,605	14,265	4,801	14,074	4,782	*	*
68 Chautauqua Creek	34,634	11,491	13,960	6,524	*	*	*	*
69 Wiscoy Creek	33,242	11,142	*	*	22,695	9,751	*	*
70 Ischua Creek	32,619	14,659	6,182	2,637	*	*	*	*
71 Cranberry Lake**	31,682	14,941	*	*	*	*	*	*
72 West Branch Ausable River	30,228	12,171	3,202	1,445	*	*	4,245	1,789
73 East Koy Creek	30,155	12,035	7,583	3,470	*	*	*	*
74 Sandy Creek**	29,778	10,334	*	*	*	*	9,951	3,805
75 Kayaderosseras Creek**	29,636	9,195	*	*	21,459	7,642	*	*
76 Saranac River	26,882	8,626	*	*	*	*	7,241	2,936
77 Indian Lake**	26,877	5,820	7,909	3,156	16,289	4,771	2,679	1,074
78 Raquette Lake	25,984	10,069	*	*	20,653	9,634	*	*
79 Schroon River	24,080	6,622	5,724	2,393	15,291	5,949	*	*
80 Canadaway Creek	17,797	4,547	7,150	2,285	*	*	7,969	3,242

^a Numerical ranking of water bodies by angler days is only approximate because of the likelihood of sampling error, as shown by the confidence intervals for each waterway. For example, while results from this sample of anglers produced more angler days fished for Seneca Lake than for the Salmon River, confidence intervals for these two water bodies overlap considerably. Thus, we can say with very little statistical confidence that more angler days were actually spent on Seneca Lake than on the Salmon River.

* Confidence limit more than 50% of estimate.

**Location of waters in cases where more than one water with the same name exists in New York State:

Salmon River in Oswego and Lewis Counties;
Black Lake in St. Lawrence County;
Beaver Kill in Delaware, Sullivan and Ulster Counties;
Black River in Jefferson, Lewis, Oneida and Herkimer Counties;
Silver Lake in Wyoming County;
West Branch Delaware River in Delaware County;
North Pond/Sandy Pond Bay of Lake Ontario;
Ninemile Creek in Onondaga County;
Waneta Lake in Schuyler and Steuben Counties;
Raquette River in St. Lawrence, Franklin and Hamilton Counties;
Hemlock Lake in Livingston and Ontario Counties;
Cranberry Lake in St. Lawrence County;
Sandy Creek in Monroe and Orleans Counties;
Kayaderosseras Creek in Saratoga County;
Indian Lake in the town of Indian Lake in Hamilton County.

Table 29. Lake Ontario—Effort, expenditure, and satisfaction summary.

	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Region of Residence								
6	128,535	31,636	*	*	62,910	20,846	26,718	8,427
7	262,852	51,227	79,892	31,481	128,203	33,564	54,757	22,507
8	399,922	58,290	86,533	30,867	252,646	46,680	60,744	16,309
9	187,556	37,099	29,197	8,292	123,096	34,514	35,263	10,787
Other regions	93,284	37,509	24,072	9,323	*	*	14,821	4,439
Out-of-state	241,926	47,197	27,644	8,582	187,906	44,610	26,376	12,799
Type of Fishing								
Open water			257,816	49,110				
Ice Fishing			31,122	7,085				
Total	1,314,066	110,172	287,269	52,034	807,972	91,008	218,825	33,880
*Confidence limit more than 50% of estimate.								

Estimated Expenditures	Total (avg./day)	Confidence Limits, ±
At Location	\$51,844,062 (39.45)	\$9,352,348
En Route	23,932,678 (18.21)	3,543,639

	Total	Jan.-May	June-Sept.	Oct.-Dec.
Fished Primarily For	Percent of Days			
Coho/Chinook Salmon	29.5	14.8	33.4	34.7
Black Bass (small or largemouth)	21.0	5.8	27.1	18.6
Yellow Perch	8.1	15.2	5.1	10.0
Trout (brook, brown, rainbow)	7.9	20.8	4.0	5.6
Steelhead Trout	5.3	7.1	4.2	6.8
Lake Trout	5.3	8.1	4.7	3.8
Landlocked Atlantic Salmon	4.2	0.4	5.2	5.7
Walleye	3.3	5.4	2.5	3.5
Northern Pike	2.3	5.8	1.3	1.3
Bullheads, Catfish	1.9	5.2	0.8	1.4
No Specific Species	7.2	6.3	7.8	5.9
Other	4.0	5.1	3.9	2.7

<p>Mean distance traveled = 118 miles Avg. satisfaction level = 3.7 (1 = very dissatisfied to 5 = very satisfied)</p>
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Table 30. Oneida Lake—Effort, expenditure, and satisfaction summary.								
	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Region of Residence								
6	121,970	22,420	26,707	7,062	53,072	14,009	42,192	16,017
7	556,917	93,452	194,769	49,445	251,736	74,111	110,413	28,215
8	*	*	*	*	*	*	2,882	1,014
Other regions	23,959	4,167	6,271	2,853	10,370	2,132	7,319	2,163
Out-of-state	*	*	*	*	*	*	4,518	2,233
Type of Fishing								
Open water			177,424	37,680				
Ice fishing			75,866	22,275				
Total	786,401	103,944	250,012	56,201	370,263	80,980	166,126	32,985

*Confidence limit more than 50% of estimate.

Estimated Expenditures	Total (avg./day)	Confidence Limits, ±
At Location	\$12,154,611 (15.46)	\$2,594,616
En Route	7,369,927 (9.37)	1,762,962

	Total	Jan.-May	June-Sept.	Oct.-Dec.
Fished Primarily For	Percent of Days			
Walleye	57.5	63.2	50.7	64.1
Black Bass (small or largemouth)	21.7	10.8	32.3	14.3
Yellow Perch	10.4	16.8	6.5	9.4
No Specific Species	5.3	3.5	6.6	5.1
Other	5.1	5.7	3.9	7.1

<p>Mean distance traveled = 53 miles Avg. satisfaction level = 3.6 (1 = very dissatisfied to 5 = very satisfied)</p>

Table 31. Lake Erie—Effort, expenditure, and satisfaction summary.

	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Region of Residence								
9	594,349	73,735	150,558	37,685	325,352	57,383	118,439	26,906
Other regions	41,303	24,944	*	*	*	*	*	*
Out-of state	24,708	6,753	*	*	20,402	6,537	1,668	653
Type of Fishing								
Open water			137,798	37,451				
Ice Fishing			22,451	6,349				
Total	657,821	78,427	161,747	38,263	370,110	62,316	125,964	28,346

*Confidence limit more than 50% of estimate.

Estimated Expenditures	Total (avg./day)	Confidence Limits, ±
At Location	\$13,435,693 (20.42)	\$4,342,584
En Route	8,452,284 (12.85)	2,878,854

	Total	Jan.-May	June-Sept.	Oct.-Dec.
Fished Primarily For	Percent of Days			
Walleye	35.6	20.2	42.8	34.2
Black Bass (small or largemouth)	27.2	32.3	28.1	18.2
Yellow Perch	17.5	27.6	12.2	20.3
Steelhead Trout	4.5	3.8	2.9	9.9
No Specific Species	7.5	4.9	8.6	7.5
Other	7.7	11.2	5.4	9.9

Mean distance traveled = 59 miles
 Avg. satisfaction level = 3.7 (1 = very dissatisfied to 5 = very satisfied)

	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Region of Residence								
6	242,400	44,789	78,407	24,586	116,863	34,711	47,130	14,025
7	106,095	28,481	21,136	9,568	69,447	26,388	15,512	4,827
8	103,274	36,757	4,694	1,908	86,491	36,072	*	*
9	23,038	4,691	*	*	14,907	3,089	3,185	1,439
Other regions	77,500	32,627	12,262	6,075	*	*	*	*
Out-of-state	102,919	22,782	*	*	93,401	22,434	7,583	3,669
Type of Fishing								
Open water			94,524	19,836				
Ice fishing			27,219	10,847				
Total	651,455	75,615	121,592	27,272	434,962	68,316	94,901	17,512

*Confidence limit more than 50% of estimate.

Estimated Expenditures	Total (avg./day)	Confidence Limits, ±
At Location	\$23,187,421 (35.59)	\$3,942,019
En Route	10,563,046 (16.21)	1,778,605

	Total	Jan.-May	June-Sept.	Oct.-Dec.
Fished Primarily For	Percent of Days			
Black Bass (small or largemouth)	33.3	7.9	40.2	34.6
Northern Pike	20.9	27.5	20.1	15.8
Yellow Perch	14.9	29.7	11.4	11.8
Walleye	9.3	9.6	7.9	15.5
Muskie	4.0	3.6	3.3	8.0
Bullhead/Catfish	2.9	11.0	0.8	2.0
No Specific Species	7.8	5.6	9.1	4.7
Other	6.9	5.1	7.2	7.6

<p>Mean distance traveled = 136 miles Avg. satisfaction level = 3.6 (1 = very dissatisfied to 5 = very satisfied)</p>
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Table 33. Hudson River (in its entirety)—Effort, expenditure, and satisfaction summary.

	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Region of Residence								
3	256,902	54,629	83,352	24,569	131,420	46,908	42,130	13,429
4	103,245	16,473	56,257	13,437	33,014	8,219	13,974	4,822
5	87,346	21,437	*	*	66,924	20,692	14,377	4,350
Other	22,704	4,127	6,692	2,019	9,616	2,800	6,396	2,261
Total	470,731	61,770	152,440	27,980	240,708	52,686	77,584	16,027

*Confidence limit more than 50% of estimate.

Estimated Expenditures	Total (avg./day)	Confidence Limits, ±
At Location	\$6,021,196 (12.79)	\$1,528,142
En Route	3,782,644 (8.04)	1,010,729

	Total	Jan.-May	June-Sept.	Oct.-Dec.
Fished Primarily For	Percent of Days			
Striped Bass (freshwater only)	49.9	67.1	41.0	42.9
Black Bass (small or largemouth)	17.8	4.4	22.9	28.6
Shad	4.7	9.6	2.8	1.1
Bullhead/Catfish	4.1	2.5	5.6	2.6
Northern Pike	2.0	0.0	2.2	5.5
No Specific Species	11.0	6.9	13.5	11.3
Other	10.5	9.5	12.0	8.0

Mean distance traveled = 32 miles
 Avg. satisfaction level = 3.4 (1 = very dissatisfied to 5 = very satisfied)

Table 34. Lower Hudson River (Albany and Columbia Counties south)—Effort, expenditure, and satisfaction summary.

	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Region of Residence								
3	246,880	53,481	77,932	24,102	128,298	45,962	40,649	12,917
4	83,315	15,616	44,939	12,745	27,456	7,996	10,920	4,183
Other	*	*	*	*	*	*	5,579	2,110
Total	355,109	57,562	124,990	26,913	172,054	48,774	58,065	14,498

*Confidence limit more than 50% of estimate.

Estimated Expenditures	Total (avg./day)	Confidence Limits, ±
At Location	\$4,938,910 (13.91)	\$1,350,534
En Route	2,729,996 (7.69)	933,767

	Total	Jan.-May	June-Sept.	Oct.-Dec.
Fished Primarily For	Percent of Days			
Striped Bass (freshwater only)	62.7	72.6	57.4	56.9
Black Bass (small or largemouth)	11.8	1.9	14.8	24.4
Shad	5.4	8.8	4.2	1.6
No Specific Species	9.7	5.1	12.0	12.6
Other	10.4	11.6	11.6	4.5

Mean distance traveled = 26 miles

Avg. satisfaction level = 3.3 (1 = very dissatisfied to 5 = very satisfied)

Table 35. Chautauqua Lake—Effort, expenditure, and satisfaction summary.								
	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Region of Residence								
9	298,543	60,582	115,246	34,166	144,944	47,708	38,353	15,056
Other regions	*	*	*	*	*	*	1,062	149
Out-of-state	96,592	34,451	9,287	3,820	80,025	33,994	*	*
Type of Fishing								
Open water			92,694	30,850				
Ice Fishing			34,921	11,553				
Total	413,961	69,949	130,791	35,208	236,570	58,448	46,601	15,397

*Confidence limit more than 50% of estimate.

Estimated Expenditures	Total (avg./day)	Confidence Limits, ±
At Location	\$10,059,124 (24.30)	\$2,918,731
En Route	3,931,959 (9.50)	1,027,920

	Total	Jan.-May	June-Sept.	Oct.-Dec.
Fished Primarily For	Percent of Days			
Walleye	33.3	34.2	30.9	42.8
Black Bass (small or largemouth)	17.9	6.4	26.1	8.4
Yellow Perch	13.2	19.9	9.8	11.7
Crappie	12.6	26.1	5.0	13.3
Muskie	8.0	2.2	10.7	11.0
Bluegill/Sunfish	4.2	2.9	5.7	0.0
No Specific Species	7.4	4.6	8.7	8.3
Other	3.4	3.7	3.1	4.5

<p>Mean distance traveled = 66 miles Avg. satisfaction level = 3.3 (1 = very dissatisfied to 5 = very satisfied)</p>

Table 36. Lower Niagara River—Effort, expenditure, and satisfaction summary.								
	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Region of Residence								
9	176,423	45,888	*	*	89,575	33,365	53,548	22,731
Other	*	*	*	*	5,833	2,182	*	*
Total	194,811	47,881	*	*	95,301	34,328	56,082	22,950
*Confidence limit more than 50% of estimate.								

Estimated Expenditures	Total (avg./day)	Confidence Limits, ±
At Location	\$2,801,005 (14.38)	\$926,250
En Route	*	*
*Confidence limit more than 50% of estimate.		

	Total	Jan.-May	June-Sept.	Oct.-Dec.
Fished Primarily For	Percent of Days			
Black Bass (small or largemouth)	30.6	8.8	45.0	22.9
Steelhead Trout	24.0	40.7	7.5	39.2
Walleye	9.1	11.8	11.9	2.2
Coho/Chinook Salmon	7.2	2.9	6.6	11.7
Lake Trout	5.2	10.3	3.6	4.0
No Specific Species	12.3	11.8	14.9	8.1
Other	11.6	13.7	10.5	11.9

<p>Mean distance traveled = 75 miles Avg. satisfaction level = 3.8 (1 = very dissatisfied to 5 = very satisfied)</p>

Table 37. Upper Niagara River—Effort, expenditure, and satisfaction summary.								
	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Region of Residence								
9	167,639	41,911	38,467	17,496	98,308	36,457	30,865	11,013
Other	*	*	*	*	*	*	*	*
Total	172,888	43,562	39,428	17,936	99,423	37,829	34,037	12,040

*Confidence limit more than 50% of estimate.

Estimated Expenditures	Total (avg./day)	Confidence Limits, ±
At Location	\$1,056,831 (6.11)	\$385,254
En Route	550,395 (3.18)	175,242

	Total	Jan.-May	June-Sept.	Oct.-Dec.
Fished Primarily For	Percent of Days			
Black Bass (small or largemouth)	41.1	31.6	48.3	30.7
Yellow Perch	14.8	30.4	6.3	21.8
Muskie	6.0	1.5	5.9	11.6
Northern Pike	5.2	7.3	3.0	9.1
Walleye	2.9	0.0	2.6	6.9
No Specific Species	19.1	15.6	22.6	13.1
Other	10.9	13.6	11.3	6.8

Mean distance traveled = 31 miles
 Avg. satisfaction level = 3.6 (1 = very dissatisfied to 5 = very satisfied)

Table 38. Seneca Lake—Effort, expenditure, and satisfaction summary.								
	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Region of Residence								
8	283,380	50,121	86,027	27,210	129,254	38,052	68,099	17,993
Other regions	34,842	14,166	*	*	11,772	4,827	*	*
Out-of-state	18,351	8,155	*	*	11,783	5,832	*	*
Total	340,290	54,752	102,669	29,673	155,971	41,335	81,651	20,217

*Confidence limit more than 50% of estimate.

Estimated Expenditures	Total (avg./day)	Confidence Limits, ±
At Location	\$5,569,015 (16.37)	\$1,953,739
En Route	2,951,347 (8.67)	638,311

	Total	Jan.-May	June-Sept.	Oct.-Dec.
Fished Primarily For	Percent of Days			
Lake Trout	28.1	26.5	29.9	26.9
Yellow Perch	21.8	40.3	10.0	21.5
Black Bass (small or largemouth)	15.3	4.3	20.4	19.3
Northern Pike	5.6	1.0	4.7	13.1
Trout (brook, brown, rainbow)	4.9	4.8	5.8	3.1
No Specific Species	11.2	8.0	15.9	6.1
Other	13.1	15.1	13.3	10.0

<p>Mean distance traveled = 50 miles Avg. satisfaction level = 3.4 (1 = very dissatisfied to 5 = very satisfied)</p>

Table 39. Salmon River—Effort, expenditure, and satisfaction summary.								
	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Region of Residence								
7	94,528	23,652	*	*	34,036	13,926	39,061	11,563
Other regions	108,451	16,073	23,872	7,845	37,366	10,830	47,213	8,917
Out-of-state	129,674	12,633	29,529	6,646	26,641	4,581	73,505	9,718
Total	332,827	31,734	74,699	18,189	98,051	18,747	160,077	18,020

*Confidence limit more than 50% of estimate.

Estimated Expenditures	Total (avg./day)	Confidence Limits, ±
At Location	\$18,771,737 (56.40)	\$2,222,109
En Route	8,264,443 (24.83)	1,057,897

	Total	Jan.-May	June-Sept.	Oct.-Dec.
Fished Primarily For	Percent of Days			
Coho/Chinook Salmon	46.5	13.2	60.6	53.4
Steelhead Trout	37.3	80.5	12.7	32.3
Landlocked Atlantic Salmon	6.5	0.8	7.1	8.7
Trout (brook, brown, rainbow)	5.3	4.3	10.7	2.5
Other	4.4	1.2	8.9	3.1

<p>Mean distance traveled = 190 miles Avg. satisfaction level = 3.7 (1 = very dissatisfied to 5 = very satisfied)</p>
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Table 40. Cayuga Lake—Effort, expenditure, and satisfaction summary.								
	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Region of Residence								
7	181,945	38,165	43,687	13,815	101,356	31,989	36,902	15,569
8	80,080	21,424	15,936	6,726	44,256	18,707	19,888	7,988
Other regions	16,634	5,259	*	*	11,913	4,881	1,518	592
Out-of-state	24,424	9,096	*	*	18,310	8,613	*	*
Total	295,920	43,346	66,483	15,975	175,295	38,334	54,142	12,417

*Confidence limit more than 50% of estimate.

Estimated Expenditures	Total (avg./day)	Confidence Limits, ±
At Location	\$5,692,926 (19.24)	\$2,218,021
En Route	3,250,758 (10.99)	657,937

	Total	Jan.-May	June-Sept.	Oct.-Dec.
Fished Primarily For	Percent of Days			
Black Bass (small or largemouth)	32.8	15.2	41.9	25.0
Lake Trout	15.6	8.4	19.4	12.2
Yellow Perch	14.9	20.9	12.9	14.2
Trout (brook, brown, rainbow)	8.2	11.9	4.3	16.2
Landlocked Atlantic Salmon	5.6	9.9	3.2	7.9
Bluegill/Sunfish	4.4	5.2	4.4	3.4
Bullhead/Catfish	3.4	12.3	1.0	0.3
No Specific Species	9.5	10.9	8.0	12.5
Other	5.6	5.3	4.9	8.3

<p>Mean distance traveled = 53 miles Avg. satisfaction level = 3.4 (1 = very dissatisfied to 5 = very satisfied)</p>

Table 41. Lake George—Effort, expenditure, and satisfaction summary.

	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Region of Residence								
3	29,203	6,093	7,119	3,006	18,376	4,541	*	*
4	39,410	11,497	*	*	26,807	10,170	3,261	1,406
5	139,144	36,836	35,928	9,011	79,368	33,793	23,849	11,565
Other regions	26,640	6,497	2,185	669	22,465	5,928	*	*
Out-of state	53,638	10,325	*	*	44,704	7,808	*	*
Type of Fishing								
Open water			24,094	7,196				
Ice fishing			40,407	9,662				
Total	289,011	41,755	63,157	14,046	192,602	37,289	33,252	12,478

*Confidence limit more than 50% of estimate.

Estimated Expenditures	Total (avg./day)	Confidence Limits, ±
At Location	\$14,107,011 (48.81)	\$3,513,632
En Route	5,950,615 (20.59)	2,539,915

	Total	Jan.-May	June-Sept.	Oct.-Dec.
Fished Primarily For	Percent of Days			
Black Bass (small or largemouth)	45.1	18.2	57.0	27.9
Lake Trout	20.6	24.2	16.9	35.2
Yellow Perch	10.9	33.9	2.6	15.3
Landlocked Atlantic Salmon	4.5	5.4	3.9	6.0
Northern Pike	3.9	9.0	2.8	0.6
No Specific Species	5.4	2.5	6.1	6.7
Other	9.6	6.8	10.7	8.3

Mean distance traveled = 112 miles
 Avg. satisfaction level = 3.9 (1 = very dissatisfied to 5 = very satisfied)

Table 42. Lake Champlain—Effort, expenditure, and satisfaction summary.								
	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Region of Residence								
5	184,569	48,794	*	*	100,656	36,780	35,354	14,812
Other regions	53,373	13,871	*	*	31,629	10,790	7,145	2,814
Out-of-state	40,000	10,646	*	*	25,776	8,984	3,086	642
Total	277,759	52,105	74,042	29,872	157,130	39,540	46,587	16,102

*Confidence limit more than 50% of estimate.

Estimated Expenditures	Total (avg./day)	Confidence Limits, ±
At Location	\$5,704,091 (20.54)	\$1,399,011
En Route	4,322,764 (15.56)	1,068,898

	Total	Jan.-May	June-Sept.	Oct.-Dec.
Fished Primarily For	Percent of Days			
Black Bass (small or largemouth)	41.7	21.8	52.1	38.8
Yellow Perch	14.1	31.5	5.8	14.3
Lake Trout	8.9	5.3	10.8	8.2
Landlocked Atlantic Salmon	5.2	2.6	5.8	7.6
Walleye	4.7	5.3	2.8	10.0
Bullhead/Catfish	2.6	7.9	0.0	2.7
Northern Pike	2.3	1.8	1.1	7.2
No Specific Species	9.9	11.3	10.1	6.8
Other	10.6	12.5	11.5	4.4

<p>Mean distance traveled = 116 miles Avg. satisfaction level = 3.7 (1 = very dissatisfied to 5 = very satisfied)</p>
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Table 43. Mohawk River—Effort, expenditure, and satisfaction summary.

	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Region of Residence								
4	87,386	26,192	*	*	57,140	23,507	23,095	10,595
6	66,246	22,437	*	*	50,793	20,729	*	*
Other	*	*	*	*	*	*	*	*
Total	219,735	47,375	*	*	140,139	38,913	49,187	17,609

*Confidence limit more than 50% of estimate.

Estimated Expenditures	Total (avg./day)	Confidence Limits, ±
At Location	\$1,778,764 (8.10)	\$912,600
En Route	1,072,811 (4.88)	315,631

	Total	Jan.-May	June-Sept.	Oct.-Dec.
Fished Primarily For	Percent of Days			
Black Bass (small or largemouth)	47.4	30.3	48.0	56.3
Trout (brook, brown, rainbow)	14.4	27.8	13.7	7.9
Walleye	12.7	7.8	13.3	14.0
Northern Pike	3.2	5.6	1.2	7.5
No Specific Species	12.9	16.7	14.8	5.3
Other	9.4	11.8	9.0	9.0

Mean distance traveled = 24 miles
 Avg. satisfaction level = 3.3 (1 = very dissatisfied to 5 = very satisfied)

Table 44. Black Lake—Effort, expenditure, and satisfaction summary.								
	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Region of Residence								
6	45,922	21,365	*	*	20,131	5,399	3,261	1,216
7	33,575	10,024	*	*	21,028	9,006	4,853	1,976
8	30,025	7,736	5,862	2,708	20,068	7,014	4,095	1,821
Other regions	63,547	27,898	14,166	2,219	*	*	8,517	3,046
Out-of-state	47,088	8,863	3,580	1,057	40,523	8,743	2,986	1,001
Total	219,659	39,420	54,012	22,689	141,899	31,888	23,748	4,717

*Confidence limit more than 50% of estimate.

Estimated Expenditures	Total (avg./day)	Confidence Limits, ±
At Location	\$12,359,809 (56.27)	\$2,265,948
En Route	5,227,760 (23.80)	1,170,165

	Total	Jan.-May	June-Sept.	Oct.-Dec.
Fished Primarily For	Percent of Days			
Black Bass (small or largemouth)	42.3	16.6	52.3	40.0
Crappie	19.9	36.2	14.9	12.9
Northern Pike	12.7	19.8	9.2	17.8
Walleye	8.3	12.6	6.6	8.4
Bluegill/Sunfish	5.5	5.6	5.3	6.7
Yellow Perch	2.5	7.8	0.4	3.4
No Specific Species	5.0	0.0	7.1	3.8
Other	3.8	1.4	4.2	7.0

<p>Mean distance traveled = 215 miles Avg. satisfaction level = 3.6 (1 = very dissatisfied to 5 = very satisfied)</p>
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Table 45. Erie Canal—Effort, expenditure, and satisfaction summary.

	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Region of Residence								
6	46,072	14,510	*	*	27,682	11,102	*	*
8	68,833	32,479	5,056	1,948	*	*	*	*
Other	*	*	*	*	*	*	*	*
Total	188,825	53,382	23,488	9,608	136,925	51,232	28,413	11,516

*Confidence limit more than 50% of estimate.

Estimated Expenditures	Total (avg./day)	Confidence Limits, ±
At Location	\$1,777,113 (9.41)	\$2,671,028
En Route	462,382 (2.45)	120,324

	Total	Jan.-May	June-Sept.	Oct.-Dec.
Fished Primarily For	Percent of Days			
Black Bass (small or largemouth)	29.6	12.0	32.9	28.1
Walleye	13.4	4.1	16.0	8.6
Bullhead/Catfish	6.4	3.7	8.0	1.1
Northern Pike	5.6	14.8	3.3	9.2
Carp	4.0	0.0	3.6	9.2
Yellow Perch	3.5	11.5	1.2	7.9
Bluegill/Sunfish	2.8	7.6	1.4	5.5
No Specific Species	25.2	37.0	25.7	13.0
Other	9.5	9.3	7.9	17.4

<p>Mean distance traveled = 16 miles Avg. satisfaction level = 3.2 (1 = very dissatisfied to 5 = very satisfied)</p>

Table 46. Keuka Lake—Effort, expenditure, and satisfaction summary.								
	Angler Days							
	Total		Jan.-May		June-Sept.		Oct.-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Region of Residence								
8	145,119	43,630	24,808	6,725	91,191	41,673	29,121	11,031
Other regions	21,145	8,507	*	*	*	*	*	*
Out-of-state	12,451	4,297	*	*	9,741	3,428	*	*
Total	178,340	45,040	30,623	7,400	114,005	42,906	33,713	11,529

*Confidence limit more than 50% of estimate.

Estimated Expenditures	Total (avg./day)	Confidence Limits, ±
At Location	\$3,154,050 (17.69)	\$1,383,347
En Route	1,924,759 (10.79)	763,205

	Total	Jan.-May	June-Sept.	Oct.-Dec.
Fished Primarily For	Percent of Days			
Black Bass (small or largemouth)	39.6	9.0	52.3	24.1
Lake Trout	22.9	24.4	18.6	35.9
Yellow Perch	12.9	33.1	5.2	20.8
Trout (brook, brown, rainbow)	3.5	7.9	2.6	2.8
Landlocked Atlantic Salmon	1.5	0.0	0.3	6.7
No Specific Species	10.6	11.1	12.7	3.1
Other	9.0	14.5	8.3	6.6

<p>Mean distance traveled = 72 miles Avg. satisfaction level = 3.6 (1 = very dissatisfied to 5 = very satisfied)</p>

Table 47. Susquehanna River—Effort, expenditure, and satisfaction summary.								
	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Region of Residence								
7	126,108	32,589	19,656	7,395	81,074	29,125	25,378	12,614
Other	47,409	17,151	*	*	*	*	9,046	4,145
Total	174,897	37,392	36,586	13,649	103,871	32,175	34,440	13,290

*Confidence limit more than 50% of estimate.

Estimated Expenditures	Total (avg./day)	Confidence Limits, ±
At Location	\$1,174,547 (6.72)	\$683,317
En Route	652,141 (3.73)	195,174

	Total	Jan.-May	June-Sept.	Oct.-Dec.
Fished Primarily For	Percent of Days			
Walleye	31.2	55.3	13.9	57.3
Black Bass (small or largemouth)	26.2	10.9	37.3	9.0
Bullhead/Catfish	8.3	7.1	8.7	8.6
Trout (brook, brown, rainbow)	7.0	10.8	7.1	2.8
No Specific Species	19.5	9.7	23.8	17.1
Other	7.8	6.2	9.2	5.2

<p>Mean distance traveled = 23 miles Avg. satisfaction level = 3.4 (1 = very dissatisfied to 5 = very satisfied)</p>

Table 48. Great Sacandaga Lake—Effort, expenditure, and satisfaction summary.								
	Angler Days							
	Total		Jan.-May		June-Sept.		Oct.-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Region of Residence								
4	59,544	17,265	*	*	43,845	15,991	10,314	4,660
5	69,060	16,155	15,035	7,053	41,501	12,673	*	*
Other	*	*	*	*	*	*	*	*
Total	160,513	29,536	29,703	10,412	108,613	26,447	22,197	8,032

*Confidence limit more than 50% of estimate.

Estimated Expenditures	Total (avg./day)	Confidence Limits, ±
At Location	\$3,108,070 (19.36)	\$1,865,944
En Route	1,691,464 (10.54)	859,384

	Total	Jan.-May	June-Sept.	Oct.-Dec.
Fished Primarily For	Percent of Days			
Walleye	40.5	52.7	36.5	44.8
Black Bass (small or largemouth)	25.0	9.1	29.8	23.1
Northern Pike	7.0	17.7	5.3	0.8
Trout (brook, brown, rainbow)	6.1	0.0	7.7	6.2
Yellow Perch	2.1	11.4	0.0	0.0
Bullhead/Catfish	0.9	0.0	0.0	6.2
No Specific Species	12.8	9.1	13.8	12.5
Other	5.6	0.0	6.9	6.4

<p>Mean distance traveled = 57 miles Avg. satisfaction level = 3.1 (1 = very dissatisfied to 5 = very satisfied)</p>

	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Region of Residence								
7	119,151	41,453	*	*	*	*	14,712	4,372
Other	39,572	11,984	4,344	1,574	*	*	15,430	5,447
Total	159,089	44,320	*	*	89,205	36,990	29,740	7,203

*Confidence limit more than 50% of estimate.

Estimated Expenditures	Total (avg./day)	Confidence Limits, ±
At Location	\$2,293,825 (14.42)	\$855,073
En Route	1,313,813 (8.26)	272,292

	Total	Jan.-May	June-Sept.	Oct.-Dec.
Fished Primarily For	Percent of Days			
Coho/Chinook Salmon	26.4	10.0	28.6	42.4
Black Bass (small or largemouth)	13.4	1.0	22.2	3.9
Steelhead Trout	13.0	25.8	3.5	24.0
Trout (brook, brown, rainbow)	9.9	21.7	6.0	5.5
Walleye	8.6	16.5	7.3	2.0
Bluegill/Sunfish	7.6	0.0	12.2	3.8
Bullhead/Catfish	4.6	10.0	3.5	0.5
Landlocked Atlantic Salmon	3.4	0.0	2.8	10.0
Yellow Perch	3.1	3.3	1.6	7.4
Carp	1.8	5.0	1.0	0.0
Northern Pike	1.3	5.0	0.0	0.0
No Specific Species	4.7	0.0	8.3	0.0
Other	2.2	1.7	3.0	0.5

<p>Mean distance traveled = 112 miles Avg. satisfaction level = 3.5 (1 = very dissatisfied to 5 = very satisfied)</p>
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Table 50. Saratoga Lake—Effort, expenditure, and satisfaction summary.

	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Region of Residence								
4	57,195	21,405	*	*	40,834	20,168	7,239	3,406
5	78,753	34,630	*	*	*	*	12,327	6,065
Other	11,653	5,187	1,970	895	*	*	*	*
Total	148,840	41,333	*	*	100,008	34,894	19,655	7,119

*Confidence limit more than 50% of estimate.

Estimated Expenditures	Total (avg./day)	Confidence Limits, ±
At Location	\$1,879,359 (12.63)	\$821,153
En Route	957,548 (6.43)	314,362

	Total	Jan.-May	June-Sept.	Oct.-Dec.
Fished Primarily For	Percent of Days			
Black Bass (small or largemouth)	60.6	14.3	76.6	47.0
Northern Pike	11.9	21.4	8.8	13.9
Yellow Perch	6.2	14.3	5.0	0.0
Walleye	5.5	7.1	2.6	18.2
Bluegill/Sunfish	4.7	14.3	2.3	2.8
Crappie	4.2	14.3	1.2	4.2
Bullhead/Catfish	0.7	0.0	0.0	5.6
No Specific Species	5.0	14.3	3.3	0.0
Other	1.2	0.0	0.2	8.3

Mean distance traveled = 37 miles
 Avg. satisfaction level = 3.7 (1 = very dissatisfied to 5 = very satisfied)

Table 51. Cattaraugus Creek—Effort, expenditure, and satisfaction summary.

	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Region of Residence								
9	132,459	28,030	38,906	11,965	58,745	23,423	34,808	9,688
Other	13,909	5,153	866	419	*	*	7,768	3,795
Total	147,905	29,845	39,721	12,115	65,660	25,217	42,524	10,396

*Confidence limit more than 50% of estimate.

Estimated Expenditures	Total (avg./day)	Confidence Limits, ±
At Location	\$1,142,100 (7.72)	\$337,003
En Route	1,377,040 (9.31)	437,456

	Total	Jan.-May	June-Sept.	Oct.-Dec.
Fished Primarily For	Percent of Days			
Trout	45.6	49.4	60.3	19.3
Steelhead Trout	41.4	42.0	21.6	71.3
Bullhead/Catfish	4.4	1.8	8.9	0.0
Other	8.6	6.8	9.2	9.4

<p>Mean distance traveled = 48 miles Avg. satisfaction level = 3.7 (1 = very dissatisfied to 5 = very satisfied)</p>

Table 52. Genessee River—Effort, expenditure, and satisfaction summary.								
	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Region of Residence								
8	49,056	14,467	*	*	23,228	9,405	13,125	6,113
9	75,182	31,167	*	*	23,827	11,370	18,823	9,135
Other	*	*	*	*	*	*	*	*
Total	143,952	36,549	*	*	48,621	14,421	37,714	12,807

*Confidence limit more than 50% of estimate.

Estimated Expenditures	Total (avg./day)	Confidence Limits, ±
At Location	\$994,256 (6.91)	\$262,879
En Route	1,160,540 (8.06)	290,011

	Total	Jan.-May	June-Sept.	Oct.-Dec.
Fished Primarily For	Percent of Days			
Trout (brook, brown, rainbow)	54.0	74.0	43.2	37.6
Black Bass (small or largemouth)	11.1	2.0	21.4	12.0
Walleye	6.1	4.0	7.5	7.5
Coho/Chinook Salmon	6.1	0.0	4.6	17.2
Steelhead Trout	4.8	4.0	1.5	10.1
Lake Trout	4.3	6.0	4.5	1.3
Bullhead/Catfish	2.7	0.0	6.0	2.4
Landlocked Atlantic Salmon	2.6	0.0	0.0	9.8
No Specific Species	7.7	10.0	10.1	1.3
Other	0.6	0.0	1.2	0.8

<p>Mean distance traveled = 61 miles Avg. satisfaction level = 3.8 (1 = very dissatisfied to 5 = very satisfied)</p>

Table 53. Canandaigua Lake—Effort, expenditure, and satisfaction summary.								
	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Region of Residence								
8	103,799	34,869	*	*	*	*	21,333	8,837
Other	*	*	*	*	*	*	*	*
Total	133,966	41,883	*	*	73,741	32,803	26,207	9,313

*Confidence limit more than 50% of estimate.

Estimated Expenditures	Total (avg./day)	Confidence Limits, ±
At Location	\$1,440,328 (10.75)	\$938,829
En Route	905,226 (6.76)	218,281

	Total	Jan-May	June-Sept.	Oct.-Dec.
Fished Primarily For	Percent of Days			
Black Bass (small or largemouth)	30.8	2.8	43.6	30.5
Yellow Perch	21.1	27.8	16.5	25.5
Lake Trout	15.4	12.5	13.4	24.8
Trout (brook, brown, rainbow)	5.1	16.7	0.0	4.4
Crappie	4.9	19.4	0.0	0.0
Walleye	2.8	0.0	3.3	5.0
Northern Pike	2.1	8.3	0.0	0.0
No Specific Species	11.8	12.5	14.3	4.0
Other	6.0	0.0	8.9	5.8

<p>Mean distance traveled = 36 miles Avg. satisfaction level = 3.6 (1 = very dissatisfied to 5 = very satisfied)</p>

Table 54. Delaware River—Effort, expenditure, and satisfaction summary.								
	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Region of Residence								
3	46,558	14,746	17,675	7,731	25,212	12,410	*	*
Other regions	48,778	11,980	15,112	7,231	23,816	7,712	*	*
Out-of-state	32,925	12,721	*	*	*	*	*	*
Total	128,344	22,903	40,862	11,952	66,445	17,494	21,037	8,699

*Confidence limit more than 50% of estimate.

Estimated Expenditures	Total (avg./day)	Confidence Limits, ±
At Location	\$3,687,358 (28.73)	\$1,960,419
En Route	2,521,404 (19.65)	1,089,996

	Total	Jan.-May	June-Sept.	Oct.-Dec.
Fished Primarily For	Percent of Days			
Trout (brook, brown, rainbow)	54.6	56.3	52.9	56.4
Black Bass (small or largemouth)	17.5	13.0	19.3	20.6
Shad	10.1	19.8	5.4	6.1
Walleye	4.3	4.2	3.3	7.8
No Specific Species	6.5	0.0	12.0	1.8
Other	7.0	6.7	7.1	7.3

<p>Mean distance traveled = 78 miles Avg. satisfaction level = 3.7 (1 = very dissatisfied to 5 = very satisfied)</p>

Table 55. Beaver Kill—Effort, expenditure, and satisfaction summary.

	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Region of Residence								
3	*	*	*	*	*	*	2,966	1,402
Other regions	40,862	13,261	9,486	4,671	28,173	12,045	*	*
Out-of state	22,569	6,316	4,616	1,752	14,237	5,078	*	*
Total	114,285	35,963	25,367	9,776	78,910	34,288	10,008	4,704

* Confidence limit more than 50% of estimate.

Estimated Expenditures	Total (avg./day)	Confidence Limits, ±
At Location	\$4,334,869 (37.93)	\$1,400,205
En Route	2,175,896 (19.04)	884,395

	Total	Jan.-May	June-Sept.	Oct.-Dec.
Fished Primarily For	Percent of Days			
Trout (brook, brown, rainbow)	98.0	100.0	97.8	95.0
Other	2.0	0.0	2.2	5.0

Mean distance traveled = 125 miles
 Avg. satisfaction level = 3.6 (1 = very dissatisfied to 5 = very satisfied)

Table 56. Seneca River—Effort, expenditure, and satisfaction summary.								
	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Region of Residence								
7	83,846	23,957	*	*	47,505	20,708	18,207	7,372
Other	*	*	*	*	*	*	*	*
Total	109,777	30,003	*	*	55,598	21,951	26,203	11,736
*Confidence limit more than 50% of estimate.								

Estimated Expenditures	Total (avg./day)	Confidence Limits, ±
At Location	\$319,016 (2.91)	\$149,727
En Route	448,328 (4.08)	366,602

	Total	Jan.-May	June-Sept.	Oct.-Dec.
Fished Primarily For	Percent of Days			
Black Bass (small or largemouth)	29.7	26.8	23.6	45.9
Bullhead/Catfish	12.3	5.7	14.8	13.9
Walleye	7.9	11.0	10.1	0.0
Carp	7.5	15.8	4.3	5.4
Bluegill/Sunfish	4.5	0.0	4.3	9.7
Yellow Perch	4.2	2.6	4.3	5.6
Northern Pike	3.8	5.7	3.6	2.1
Crappie	3.3	7.9	0.0	5.6
Trout (brook, brown, rainbow)	1.3	0.0	0.0	5.6
No Specific Species	21.8	19.3	30.4	6.4
Other	3.7	5.2	4.6	0.0

<p>Mean distance traveled = 18 miles Avg. satisfaction level = 3.6 (1 = very dissatisfied to 5 = very satisfied)</p>

Table 57. Black River—Effort, expenditure, and satisfaction summary.								
	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Region of Residence								
6	92,441	33,107	17,035	6,215	67,233	32,378	8,173	3,015
Other	14,455	4,548	1,329	422	11,154	4,493	1,972	572
Total	107,090	34,685	18,477	6,555	78,452	33,904	10,161	3,248

Estimated Expenditures	Total (avg./day)	Confidence Limits, ±
At Location	\$878,565 (8.20)	\$401,710
En Route	666,787 (6.23)	228,457

	Total	Jan.-May	June-Sept.	Oct.-Dec.
Fished Primarily For	Percent of Days			
Trout (brook, brown, rainbow)	28.8	40.7	24.3	42.1
Walleye	19.0	17.1	21.5	3.0
Black Bass (small or largemouth)	18.9	0.0	24.2	12.1
Northern Pike	8.0	1.3	9.9	5.3
Lake Trout	3.9	22.8	0.0	0.0
Steelhead Trout	1.9	7.9	0.0	5.4
Coho/Chinook Salmon	1.4	0.0	0.0	15.1
Crappie	0.5	0.0	0.0	5.3
No Specific Species	12.7	5.3	15.1	7.4
Other	4.9	4.9	5.0	4.3

<p>Mean distance traveled = 66 miles Avg. satisfaction level = 3.5 (1 = very dissatisfied to 5 = very satisfied)</p>

Table 58. Honeoye Lake—Effort, expenditure, and satisfaction summary.								
	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Region of Residence								
8	83,106	31,577	10,221	3,392	*	*	*	*
Other	*	*	*	*	*	*	*	*
Total	106,804	33,695	15,163	5,098	76,620	32,407	*	*

*Confidence limit more than 50% of estimate.

Estimated Expenditures	Total (avg./day)	Confidence Limits, ±
At Location	\$1,854,983 (17.37)	\$802,895
En Route	1,129,920 (10.58)	299,183

	Total	Jan.-May	June-Sept.	Oct.-Dec.
Fished Primarily For	Percent of Days			
Black Bass (small or largemouth)	45.0	6.7	55.4	29.6
Walleye	18.7	24.0	14.2	36.3
Bluegill/Sunfish	16.3	38.6	9.8	27.0
Yellow Perch	4.7	12.7	3.0	5.6
Crappie	4.3	17.8	2.5	0.0
No Specific Species	8.8	0.0	12.3	0.0
Other	2.2	0.2	2.8	1.5

<p>Mean distance traveled = 44 miles Avg. satisfaction level = 3.6 (1 = very dissatisfied to 5 = very satisfied)</p>

Table 59. Silver Lake—Effort, expenditure, and satisfaction summary.								
	Angler Days							
	Total		Jan.-May		June-Sept.		Oct-Dec.	
	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±	Number	Confidence Limits, ±
Region of Residence								
9	80,752	21,871	24,095	6,581	42,618	18,881	*	*
Other	22,221	10,684	*	*	15,124	4,944	*	*
Type of Fishing								
Open water			10,254	2,662				
Ice fishing			20,891	9,553				
Total	102,994	24,485	30,263	11,046	57,972	19,964	*	*

*Confidence limit more than 50% of estimate.

Estimated Expenditures	Total (avg./day)	Confidence Limits, ±
At Location	\$814,823 (7.91)	\$273,680
En Route	833,496 (8.09)	223,563

	Total	Jan.-May	June-Sept.	Oct.-Dec.
Fished Primarily For	Percent of Days			
Yellow Perch	23.1	49.8	7.6	29.4
Bluegill/Sunfish	19.9	17.6	20.2	23.6
Walleye	14.3	3.9	18.7	18.0
Black Bass (small or largemouth)	14.2	0.0	20.5	18.3
Northern Pike	11.8	12.8	13.3	4.2
Crappie	5.0	11.0	2.9	0.8
Bullhead/Catfish	1.3	1.7	0.0	5.6
No Specific Species	9.4	0.0	16.7	0.0
Other	1.0	3.2	0.1	0.1

<p>Mean distance traveled = 41 miles Avg. satisfaction level = 3.3 (1 = very dissatisfied to 5 = very satisfied)</p>

SECTION III: EXPENDITURES

New York's resident and nonresident anglers together spent an estimated \$331 million at the fishing site and \$202 million en route to the fishing site. More specific information by region of residence can be found in Table 60. For example, \$99 million, or 30% of the total at-location expenditures were made by out-of-state anglers. Average daily trip-related expenses (\$17.62 at-site plus \$10.76 en route) for all anglers was \$28.38 -- \$22.36 for residents and \$90.10 for nonresidents.

Per day expenditures by water body type were higher for lakes/ponds than for rivers/streams (Table 61). Two-thirds of the at-location expenditures were made by anglers fishing lakes/ponds in New York. The Great Lakes fishery generated an estimated \$98 million in at-location expenditures, compared with \$231 million for inland waters (Table 62).

Total expenditures at the fishing site were greatest in Regions 6 and 7 (Table 63). With so few licensed anglers fishing freshwater in Region 2, the estimated expenditures were quite small and the confidence limit was very large, making the estimate much less precise than for other regions. Tables 64 through 71 provide estimates of the at-location expenditures for each region by anglers' region of residence. These tables provide an indication of the level of fishing-related expenditures coming into a given region. This breakdown was not done for anglers fishing in Region 2 because of the small sample size.

Table 60. Fishing related expenditures by region of residence.			
<i>Region of Residence</i>	At Location	En Route	Total
	Number (Confidence Limits ±)		
1	\$11,297,972 (2,881,520)	\$6,421,589 (1,556,588)	\$17,719,561 (3,275,076)
2	9,993,602 (2,447,569)	6,693,184 (2,188,053)	16,686,787 (3,283,013)
3	31,790,396 (4,518,711)	21,257,649 (3,181,008)	53,048,045 (5,526,080)
4	22,043,385 (3,954,198)	15,170,801 (2,877,980)	37,214,186 (4,890,650)
5	18,615,273 (3,753,262)	12,276,071 (2,002,082)	30,891,344 (4,253,858)
6	15,913,839 (2,359,896)	11,338,328 (2,080,713)	27,252,168 (3,146,185)
7	36,348,514 (5,423,543)	25,030,531 (2,780,097)	61,379,045 (6,094,568)
8	40,947,305 (5,579,080)	28,674,579 (4,487,112)	69,621,884 (7,159,630)
9	41,638,211 (6,369,668)	28,693,891 (5,563,334)	70,332,102 (8,457,148)
Out-of-state	98,631,941 (10,179,866)	45,390,166 (4,767,723)	144,022,107 (11,241,034)
Total	330,638,103 (16,894,576)	201,945,086 (10,818,309)	532,583,189 (20,061,468)

Table 61. Estimated expenditures for anglers fishing different water body types.		
<i>Estimated Expenditures</i>	Total (avg./day)	Confidence Limits \pm
Lakes/ponds		
At Location	\$197,574,647 (20.24)	\$14,365,402
En Route	114,822,223 (11.76)	8,738,511
Rivers/streams		
At Location	107,229,344 (16.44)	8,304,726
En Route	65,922,014 (10.11)	5,032,881
Unclassifiable		
At Location	26,513,384 (10.19)	3,454,820
En Route	22,119,873 (8.50)	2,501,040

Table 62. Estimated expenditures for anglers fishing the Great Lakes and inland waters.		
<i>Estimated Expenditures</i>	Total (avg./day)	Confidence Limits \pm
Inland Waters		
At Location	\$231,068,975 (15.15)	\$12,555,869
En Route	150,219,710 (9.85)	8,171,804
Great Lakes		
At Location	98,440,892 (27.63)	10,939,389
En Route	51,620,670 (14.49)	6,122,254

Table 63. Estimated expenditures by DEC region fished.		
Region Fished	At Location Expenditures	Confidence Limits \pm
1	\$2,483,057	\$727,318
2	342,722	593,583
3	21,520,278	2,364,247
4	20,583,037	4,487,481
5	56,252,495	6,223,347
6	65,050,376	8,428,319
7	64,253,218	7,508,130
8	45,907,650	7,018,626
9	41,625,092	6,850,679

Table 64. Estimated expenditures at location for anglers fishing Region 1 by region of residence.		
Region of Residence	At Location Expenditures	Confidence Limits \pm
1	\$1,819,432	\$695,366
Other regions	660,508	255,397
Total	2,483,057	727,318
26.6% by non-Region residents.		

Table 65. Estimated expenditures at location for anglers fishing Region 3 by region of residence.		
Region of Residence	At Location Expenditures	Confidence Limits \pm
1	\$2,584,132	\$1,183,120
2	3,080,535	941,843
3	11,578,063	1,514,706
Other regions	1,896,389	700,815
Out-of-state	2,400,968	728,949
Total	21,520,278	2,364,247
35.1% by non-Region 3 New York residents, 11.2% by nonresidents of New York.		

Table 66. Estimated expenditures at location for anglers fishing Region 4 by region of residence.		
Region of Residence	At Location Expenditures	Confidence Limits \pm
1	*	*
2	\$1,531,328	\$777,359
3	*	*
4	5,020,245	1,503,855
5	*	*
6	263,747	106,958
7	*	*
Other regions	*	*
Out-of-state	5,273,591	2,419,526
Total	20,583,037	4,487,481
*Confidence limit more than 50% of estimate.		
48.3% by non-Region 4 New York residents, 25.6% by nonresidents of New York.		

Table 67. Estimated expenditures at location for anglers fishing Region 5 by region of residence.		
Region of Residence	At Location Expenditures	Confidence Limits \pm
1	\$2,890,756	\$1,343,452
2	605,537	143,838
3	6,510,745	2,403,437
4	9,967,209	2,645,696
5	12,791,246	3,074,833
6	1,623,551	684,163
7	2,065,724	837,018
8	2,173,383	967,714
9	3,467,462	1,672,393
Out-of-state	13,799,772	2,614,039
Total	56,252,495	6,223,347
52.1% by non-Region 5 New York residents, 24.5% by nonresidents of New York.		

Table 68. Estimated expenditures at location for anglers fishing Region 6 by region of residence.		
Region of Residence	At Location Expenditures	Confidence Limits \pm
3	\$2,602,871	\$1,044,269
4	*	*
5	*	*
6	11,227,535	1,964,056
7	10,584,528	4,132,754
8	8,665,603	2,099,165
9	4,809,917	1,572,081
Other	1,022,422	494,764
Out-of-state	20,479,760	5,746,658
Total	65,050,376	8,428,319
*Confidence limit more than 50% of estimate.		
48.0% by non-Region 6 New York residents, 31.5% by nonresidents of New York.		

Table 69. Estimated expenditures at location for anglers fishing Region 7 by region of residence.		
Region of Residence	At Location Expenditures	Confidence Limits \pm
3	\$3,880,788	\$1,135,653
4	*	*
5	*	*
6	1,673,499	680,918
7	19,024,523	3,339,950
8	3,691,298	1,762,022
Other	3,237,119	1,299,830
Out-of-state	26,302,785	5,239,910
Total	64,253,218	7,508,130
*Confidence limit more than 50% of estimate.		
27.6% by non-Region 7 New York residents, 40.9% by nonresidents of New York.		

Table 70. Estimated expenditures at location for anglers fishing Region 8 by region of residence.		
Region of Residence	At Location Expenditures	Confidence Limits \pm
7	\$1,254,546	\$555,257
8	23,173,602	4,715,187
9	4,183,837	1,913,489
Other	2,589,168	1,074,922
Out-of-state	13,014,727	4,251,941
Total	45,907,650	7,018,626
17.5% by non-Region 8 New York residents, 28.3% by nonresidents of New York.		

Table 71. Estimated expenditures at location for anglers fishing Region 9 by region of residence.		
Region of Residence	At Location Expenditures	Confidence Limits \pm
8	\$1,587,453	\$578,059
9	26,337,183	5,753,189
Other	2,731,259	897,423
Out-of-state	10,828,923	3,293,025
Total	41,625,092	6,850,679
10.4% by non-Region 9 New York residents, 26.0% by nonresidents of New York.		

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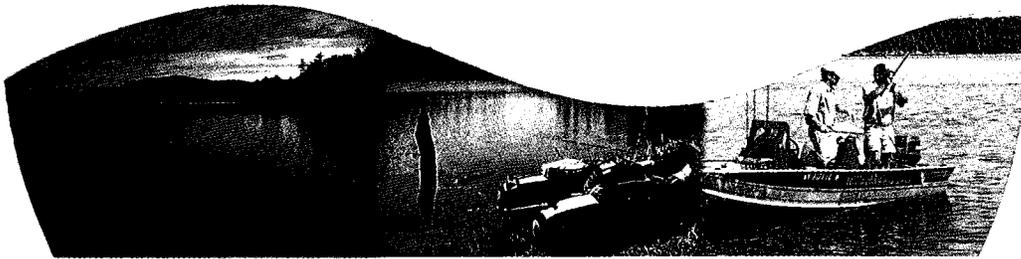
APPENDIX A:

2007 Statewide Angler Questionnaire

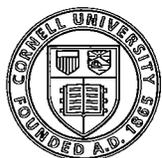
**(Questionnaires were identical for all three phases,
except for the dates of fishing effort.)**



New York State



Freshwater Angler Survey



Cornell University
Human Dimensions Research Unit



New York State Department of
Environmental Conservation
Bureau of Fisheries



2007 NEW YORK STATE FRESHWATER ANGLER SURVEY

Research conducted by

CORNELL UNIVERSITY

Department of Natural Resources

in cooperation with the

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

BUREAU OF FISHERIES

Dear Angler,

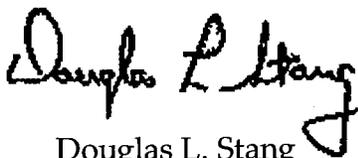
Thank you in advance for taking the time to fill out our Statewide Angler Survey. We have asked Cornell University to conduct this survey so we can learn more about your fishing experiences in New York State, your interests in different types of fishing opportunities, and your opinions about fisheries management issues. The New York State Department of Environmental Conservation (DEC) will use the information you and others provide to carry out its mission in a manner that is responsive to your needs and desires as anglers.

Your name was selected to receive this survey because license sale records indicate that you have a license that allows fishing in New York State during the study period. If you did not fish in New York State in the past few years, we ask that you complete the first question and send the questionnaire back to Cornell University to avoid receiving reminder mailings.

Please complete this questionnaire at your earliest convenience, place it in the enclosed, postage-paid envelope, and drop it in any mailbox. Your participation in this survey is voluntary, but we sincerely hope that you will take a few minutes to complete the questionnaire. The information you provide will remain strictly confidential and will never be associated with your name.

Once again, thanks for your participation. See you on the water.

Good fishing,



Douglas L. Stang
Chief, DEC Bureau of Fisheries





Please use blue or black ink when completing this survey and make sure that you fill in each circle completely.

Shade Circles Like This → ●

Not Like This → ⊗ ⊙

1. In which of the past 5 years have you fished in New York State? *(Select all that apply.)*

<input type="radio"/>	2007
<input type="radio"/>	2006
<input type="radio"/>	2005
<input type="radio"/>	2004
<input type="radio"/>	2003

STOP!!!

If you have not fished in New York State in 2007, 2006, or 2005, please stop here and return this questionnaire to us. Place it in the enclosed, self-addressed envelope; postage has been provided.

If you have fished in New York State in 2007 OR 2006 OR 2005, please continue with Question 2.

Fishing Preferences

2. Please indicate the types of waters that you prefer to fish in New York State. *(Select all that apply.)*

Water Type
<input type="radio"/> Inland lakes for trout or salmon
<input type="radio"/> Inland lakes for warm water species such as bass, pike, walleye or panfish
<input type="radio"/> Inland trout streams
<input type="radio"/> Inland streams for lake run trout and salmon (Finger Lakes, Lake Champlain tributaries, etc.)
<input type="radio"/> Inland streams for warm water species
<input type="radio"/> Large warm water rivers (Susquehanna, Oswego, Seneca, Hudson, Mohawk, etc.)
<input type="radio"/> Back country Adirondack ponds
<input type="radio"/> Lake Ontario - Open water
<input type="radio"/> Lake Ontario - Tributaries for lake run trout and salmon
<input type="radio"/> Lake Erie - Open water
<input type="radio"/> Lake Erie - Tributaries for lake run trout and salmon
<input type="radio"/> St. Lawrence River
<input type="radio"/> Niagara River



3. What are your five favorite species to fish for in New York State? (Rank from 1 to 5, with #1 as your favorite.) Choose only five species to rank.

Rank	Species
<input type="checkbox"/>	Black Bass (smallmouth bass, largemouth bass)
<input type="checkbox"/>	Bullhead / Catfish
<input type="checkbox"/>	Carp
<input type="checkbox"/>	Crappie / Calico Bass
<input type="checkbox"/>	Coho / Chinook Salmon
<input type="checkbox"/>	Landlocked Atlantic Salmon
<input type="checkbox"/>	Lake Trout
<input type="checkbox"/>	Muskie
<input type="checkbox"/>	Northern Pike
<input type="checkbox"/>	Pickereel
<input type="checkbox"/>	Shad
<input type="checkbox"/>	Steelhead
<input type="checkbox"/>	Striped Bass (freshwater only)
<input type="checkbox"/>	Sunfish (bluegill, pumpkinseed, redbreast)
<input type="checkbox"/>	Tiger Muskellunge
<input type="checkbox"/>	Trout (brook, brown, rainbow)
<input type="checkbox"/>	Walleye
<input type="checkbox"/>	Yellow Perch
<input type="checkbox"/>	No Specific Type



4. How important is each of the following factors below in choosing where you will fish? (Select one level of importance for each item.)

Factor	Not Important	Somewhat Important	Important	Very Important	Extremely Important
Close to home/camp	<input type="radio"/>				
You have caught lots of fish in that body of water in the past	<input type="radio"/>				
You have caught relatively large fish in that body of water in the past	<input type="radio"/>				
Regulations for the water allow you to keep more fish	<input type="radio"/>				
You hear that fishing has been good lately on a particular body of water	<input type="radio"/>				
You want to fish different waters	<input type="radio"/>				
The water has good access	<input type="radio"/>				
The water is in an aesthetically pleasing location	<input type="radio"/>				
The water is not crowded with other anglers	<input type="radio"/>				
The water has catch and release/artificial lures regulations in place	<input type="radio"/>				
The water is stocked with fish	<input type="radio"/>				
The water contains wild fish	<input type="radio"/>				
The water does not have a contaminant advisory	<input type="radio"/>				
The water contains the species for which you desire to fish	<input type="radio"/>				
You usually fish this water and don't change waters often	<input type="radio"/>				
The water is known for its trophy fish	<input type="radio"/>				
You wish to participate in a fishing tournament	<input type="radio"/>				
The water is a vacation destination	<input type="radio"/>				

Fishing Experiences

5. Did you go freshwater fishing in New York State, even if it was only once, between January 1 and May 31 of 2007?

- Yes (Continue with Question 6)
- No (Skip to Question 9 on page 8)

6. Please answer the questions below about all of your freshwater fishing trips **IN NEW YORK STATE** be each location only once. Include only the fishing you personally did or the dollars you personally spent. A p

Where did you fish in NY ?		How many days did you fish at each location ? (please distinguish between open water and ice fishing)			Black Bass (smallmouth, largemouth)	Yellow Perch	Walleye	Northern Pike	Pickerel	Crappie (calico bass)
Name of Water Please be as specific as possible so lakes are not confused with streams (e.g., if fishing Oneida Lake enter "Oneida Lake", not just "Oneida," so it is not confused with the Oneida River).	County (or nearest town/village)	Approximate mileage from home (one way)	Open Water	Ice Fishing						
Example: Indian Lake	Hamilton	9.0	4	2	2					

Angler Satisfaction

(Select the response that best represents your overall satisfaction.)

	Very Dissatisfied	Moderately Dissatisfied	Neutral	Moderately Satisfied	Very Satisfied
7. Thinking back over all of your freshwater fishing trips in New York State between January 1 and May 31, 2007, how satisfied were you with the <u>numbers</u> of fish that you caught?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8. Thinking back over all of your freshwater fishing trips in New York State between January 1 and May 31, 2007, how satisfied were you with the <u>size</u> of fish that you caught?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	Very Dissatisfied	Moderately Dissatisfied	Neutral	Moderately Satisfied	Very Satisfied	No Opinion /Don't Know
9. How satisfied are you with the DEC Bureau of Fisheries efforts to restore fish populations and protect aquatic habitats in New York State?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10. How satisfied are you with the quality of the information that the DEC Bureau of Fisheries provides (e.g., fishing brochures, DEC web site, telephone inquiries)?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If you indicated that you are dissatisfied with the information provided by the DEC Bureau of Fisheries, what do you feel needs to be improved?

Fisheries Management

11. The DEC Bureau of Fisheries is considering the development of an internet-based angler diary program where anglers can enter information about their fishing trip on any given body of water. This system would also allow anglers to view compiled catch statistics (species, number caught, average length and time fished) from other anglers participating in the diary program.

A. Do you have access to the Internet? <input type="radio"/> Yes <input type="radio"/> No <i>(If you do not have access to the Internet, skip to Question 12)</i>			
B. Would you enter your fishing information into such a system if one were available?	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Unsure
C. Would the information obtained from the system influence where you fish?	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Unsure



12. The DEC Bureau of Fisheries is interested in increasing the enjoyment of fishing trips taken in New York. To what extent would the following actions increase the enjoyment of the fishing trips you would take next year?

- 1= would not increase the enjoyment of fishing trips
- 2= may increase the enjoyment of fishing trips
- 3= would definitely increase the enjoyment of fishing trips

Select one number for each item below

	1	2	3
Increase the number of fishing access sites	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Stock fewer but larger fish if possible	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Provide more information on fishing opportunities in NY	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Improve facilities at existing fishing access sites (parking, launch ramps)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Make fishing regulations easier to understand	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Make more waters open to year-round harvest fishing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Make more waters open to year-round catch and release fishing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Expand wild trout fishing opportunities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Expand fishing opportunities for larger fish	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other Please indicate: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

13. New York is one of a few states that allows the sale of panfish caught by anglers. Species that are legal for anglers to sell in NY are those which have no closed season or minimum size limit (e.g., yellow perch, bluegill, sunfish). The DEC Bureau of Fisheries placed daily take limits of 50 yellow perch and 50 sunfish or bluegills for most of the State's waters in 1996 in an effort to conserve these species. The DEC Bureau of Fisheries continues to receive correspondence from anglers who are upset over what they feel is over-harvest of panfish by anglers who are selling part or all of their catches. The scientific literature documents that angler harvest can and does affect panfish populations with the tendency being to remove more of the larger, older fish. The following questions are to gather information on how many anglers are fishing for panfish, selling panfish, and anglers' thoughts on the regulation of selling panfish.

A. Have you or will you fish for panfish in 2007? <input type="radio"/> Yes <input type="radio"/> No <i>(If No, please go to Item D)</i>			
B. How did you or will you fish for them?	<input type="radio"/> Ice Fishing	<input type="radio"/> Open water	<input type="radio"/> Both
C. Have you or will you sell any of the panfish that you catch in 2007?	<input type="radio"/> Yes	<input type="radio"/> No	
D. What regulation would you like to see on the sale of panfish caught by anglers?	<input type="radio"/> Ban the sale	<input type="radio"/> Continue to allow the sale	<input type="radio"/> No Opinion

14. Since 1995 the DEC Bureau of Fisheries has been stocking two year old brown trout in addition to, or instead of, the one year old brown trout traditionally stocked. Two year old brown trout average 14 inches while one year old brown trout average 8 ½ inches. Because of the additional space requirements for raising the two year old brown trout, the DEC Bureau of Fisheries must reduce the number of one year old brown trout (one 14" fish requires the same amount of hatchery space as three 8 ½" fish). This results in fewer, but larger fish being stocked. What is your opinion regarding this policy?

Select only one preference:

<input type="radio"/>	DEC should stock only the smaller one year old brown trout
<input type="radio"/>	DEC should stock the current mix of one year old and two year old brown trout
<input type="radio"/>	DEC should stock more two year old brown trout and fewer one year old brown trout
<input type="radio"/>	No Opinion

15. The DEC Bureau of Fisheries strives to construct boat launches and fishing access sites that meet the needs of anglers. To help DEC make efficient use of the funds available for these sites, please rank your top five site amenities in order of importance to you, with 1 being the most important.

Rank	Amenity
<input type="text"/>	Boat washing station
<input type="text"/>	Fish cleaning station
<input type="text"/>	Fishing piers or other shore fishing opportunities
<input type="text"/>	Information kiosks
<input type="text"/>	Portable toilets
<input type="text"/>	Septic pump out facility
<input type="text"/>	Trash receptacles
<input type="text"/>	Used fishing line receptacle



16. Normally, the DEC Bureau of Fisheries or Cornell University never associates your name with the information you provide. However, it would be extremely valuable to state fisheries managers to be able to contact a sample of anglers for updated information about specific waterways or fishing preferences. If such information is needed in the future, may Cornell University or the DEC Bureau of Fisheries contact you for further information?

Yes No

Please use the space below for any comments you wish to make.

Thank you for your time and effort!

To return this questionnaire, simply place it in the enclosed, self-addressed envelope; postage has been provided.



APPENDIX B:

Additional Methodological Information

Sample Selection Details

License holders eligible to fish during a Phase were put into one of five groups based on the type of license they purchased (lifetime, annual resident fishing and sportsman, annual nonresident fishing and sportsman, short-term resident, short-term nonresident). The sample was drawn from each group in the same proportion that they existed in the population. Therefore, the sample for each phase should represent the distribution of all license holders eligible to fish during the period by region of residence and license type. The “initial n” column in Appendix Table C-1 shows this distribution.

Additional methodology needed to verify data (i.e. name of water bodies) received from some surveys

Question 6 of the survey provides data pertaining to individual fishing trips, and a requirement was that the individual bodies of water listed be clearly identified in order for the accompanying data to be used in major water body analysis.

Waters fished that were clearly identified in Question 6 of the survey went straight into a master waters table requiring no additional verification as the County / Town field was adequate for making a clear identification. Each of these was assigned a corresponding unique Fisheries Index Number (FIN), *a unique identifier previously established by the Bureau of Fisheries.*

In several instances, surveys were received listing waters (i.e. in Question 6) that could not be identified due to a variety of reasons including: misspellings, not matching a previously identifying county, the water name not being unique, and having multiple waters with the same name. Consulting with Cornell University, NYSDEC Bureau of Fisheries used several approaches to identify these individual waters, and if successful, the data in the accompanying records were included for data analysis.

Identifying the FIN, for as many of these instances as possible was desirable for both (a) including as many records as possible (for overall analysis of the survey data) and (b) for obtaining the minimum sample size needed for conducting more detailed analysis on individual water bodies (Tables 29 thru 59). Initially it was believed that a minimum of 30 anglers fishing on the same body of water would be needed to provide for a more detailed analysis for that individual body of water.

Some waters without a unique name (more than 1 water with the same name) were able to be clearly identified by reviewing the County/Town field, and assigned a FIN.

[While the identification of additional waters became resolved through this process, many were not.]

At this juncture the priorities became (a) to focus on opportunities to obtain the minimum number of records needed for the detailed analysis (for individual waters), and (b) to add good additional records for waters that already had the minimum required number of good records (for detailed analysis) to increase the amount of data for such analysis.

The unusable records were sorted and queried, in an alphabetical nature, to clump the waters with the same or similar name. This was particularly helpful because it created organized lists which provided a quick overview of the number of thus far unusable records largely organized by water body. These lists, as organized, also revealed waters with a potential for obtaining the minimum number of 30. Any waters having at least 20 good records were identified as potentials for minimum number of 30 (which, during this process, was adjusted to 25). A cursory review of the entire list was conducted as part of identifying potential waters to meet the minimum required number of surveys for individual water data analysis.

Four separate approaches were taken in an effort to determine the correct identities of additional waters, and to match to its appropriate FIN.

Many records were initially left out because they could not be matched to a FIN due to a problem with the County / Town field.

(a) in some cases the angler listed a water body that did not exist in the county/town that the angler listed, (b) in others there were more than one water body with the same name in the same county, and (c) in many instances the county field was left blank and the water could not be identified because the water body name was not unique.

(Approach)

-Those instances where the angler listed a county or town that did not match the water body name were not useable. Cases where a water body was identified to an adjacent county were used (with a review of maps used to demonstrate the likelihood of being the same water).

-For multiple waters with the same name, and where the county/town field was left blank (and for any additional unknowns), a review of surveys already included and contained on the master water table and clearly assigned a FIN were referred to. If 95% or more of these good records were for one principle water, then the records lacking county/town information and the unknowns were assigned to that principle water. [For example in the case of the Salmon River for which there are three waters with this same name (separate counties) approximately 97%, 699 of 721 of the good surveys received were for the larger more prominent water (located in Oswego County). Therefore, all of the Salmon Rivers without county/town information were assigned to the principal water (FIN # ONT- 53).

Many records had still been left out because of misspellings (e.g. Oswegatchie River, Sacandaga Reservoir, Willowemoc). Those that were unique enough to be readily identified were matched with a FIN and added to the Master Waters Table.

Many records were initially left out because a pseudo “global” name was used for identification, where in fact, no principal water body exists, and there are actually separately defined multiple water bodies. [For example, while there is no Saranac Lake, there are three distinct lakes, each identified with its own FIN (Upper Saranac Lake, Middle Saranac Lake and Lower Saranac Lake). Many entries just identified the water body as Saranac Lake.

These situations were also addressed by looking at the % breakdown of existing records, as described above. This was used for final determination, although as part of this, each of the appropriate Regional Fisheries Managers were consulted for their first hand knowledge to determine if surveys using the global name were very likely to be intended for one of the specific water bodies (in the above example, intended for either Upper, Middle or Lower).

Closing Comments

The above process was instrumental in making initially unusable records available for inclusion in the data analysis, once questionable water body identities were rectified. This both provided for including additional records for data analysis, as well as obtaining the minimum number of records needed for the detailed analysis (for individual waters). Additional documentation of the steps taken is retained by the NYSDEC Bureau of Fisheries, to serve as a future reference.

Formula for calculating overall confidence intervals

95% Confidence Interval = 1.96 x square root(Phase1variance + Phase2variance + Phase3variance)

APPENDIX C:

Additional Tables

Table C-1. Initial sample, number of respondents, and response rate (not adjusted for undeliverable questionnaires), by survey phase and region of residence/license type.

Region of Residence	Phase 1			Phase 2			Phase 3		
	Initial n	# Respondents	Response Rate	Initial n	# Respondents	Response Rate	Initial n	# Respondents	Response Rate
1	790	269	34.1	605	164	27.1	638	252	39.5
2	605	143	23.6	508	118	23.2	496	162	32.7
3	2,493	934	37.5	1,668	495	29.7	1,730	736	42.5
4	1,501	592	39.4	1,369	472	34.5	1,553	744	47.9
5	989	380	38.4	1,362	494	36.3	1,424	642	45.1
6	1,587	630	39.7	1,425	486	34.1	1,601	755	47.2
7	2,774	1,208	43.5	2,244	835	37.2	2,505	1,280	51.1
8	2,182	921	42.2	2,648	985	37.2	2,824	1,357	48.1
9	2,916	1,213	41.6	2,338	887	37.9	2,742	1,330	48.5
Out-of-state	1,163	533	45.8	2,833	1,030	36.4	1,487	676	45.5
License Type									
Annual Resident Fishing	4,775	1,680	35.2	6,464	2,067	32.0	2,082	1,014	48.7
Short-term Resident	86	18	20.9	495	101	20.4	37	9	24.3
Annual Resident Sportsman	10,523	4,394	41.8	6,769	2,630	38.9	12,950	6,040	46.6
Short-term Nonresident	203	65	32.0	1,801	585	32.5	621	210	33.8
Annual Nonresident Fishing	771	386	50.1	921	399	43.3	616	344	55.8
Annual Nonresident Sportsman	189	82	43.4	97	40	41.2	242	121	50.0
Lifetime	453	198	43.7	453	196	43.3	452	196	43.4

Table C-2. Tests for nonresponse bias.						
	Phase 1		Phase 2		Phase 3	
	Respondents	Non-respondents	Respondents	Non-respondents	Respondents	Non-respondents
Questions	Percent					
<i>Fish in NYS Jan. 1 2007 through current phase</i>						
No	48.1	49.0	24.6	33.0	28.7	42.8
Yes	51.9	51.0	75.4	67.0	71.3	57.2
	NS		(X ² = 7.3, df = 1, p = .01)		(X ² = 18.9, df = 1, p < .001)	
<i>Fish in NYS in 2006</i>						
No	31.9	34.2	30.7	38.2	29.9	41.3
Yes	68.1	65.8	69.3	61.8	70.1	58.7
	NS		(X ² = 5.0, df = 1, p = .03)		(X ² = 12.1, df = 1, p = .001)	
<i>Fish in NYS in 2005</i>						
No	32.1	34.5	33.4	42.6	31.1	37.0
Yes	67.9	65.5	66.6	57.4	68.9	63.0
	NS		(X ² = 7.2, df = 1, p = .01)		NS	
<i>Provided # days fished in Phase</i>						
No	54.5	49.0	34.3	35.0	62.7	58.7
Yes	45.5	51.0	65.7	65.0	37.3	41.3
	NS		NS		NS	
<i>Gender</i>						
Male	89.0	92.0	85.8	85.0	91.2	92.0
Female	11.0	8.0	14.2	15.0	8.8	8.0
	NS		NS		NS	
Mean						
# Days fished NYS during Phase (for those who fished)	13.3	12.7	17.3	12.8	12.9	12.6
	NS		(t = 2.8, df = 138, p = .01)		NS	
# Days fished Lake Ontario during Phase (for those who fished Lake Ontario)	7.7	4.7	8.3	7.3	7.8	9.3
	NS		NS		NS	
# Days ice fishing in NYS during Phase (for those who went ice fishing)	8.7	7.3				
	NS					

APPENDIX D:

Waters included in the definition of Great Lakes

Lake Ontario (including the smaller bays of Mexico, Chaumont, Three Mile, Guffins, Black River, and Henderson and Sacketts Harbors)

Lake Erie

Niagara River

Irondequoit Bay

Sodus Bay

North Pond/Sandy Pond and South Pond (the ones adjacent to Lake Ontario)

Braddock Bay

Cranberry Pond (the one in Jefferson County)

Long Pond (the one in Monroe County)

Buck Pond (the one in Monroe County)

Port Bay

Maxwell Bay

Eighteen Mile Creek (the one in Erie County)

Eighteen Mile Creek (the one in Niagara County)

Johnson Creek (the one in Orleans County)

Sandy Creek (the one in Monroe County)

Sandy Creek (the one in Jefferson County)

Salmon Creek (the one in Monroe County)

Salmon River (the one in Oswego County)

Oak Orchard Creek (only the portion in Orleans County)

Oswego River (only the portion in Oswego County)

Black River (only the portion in Jefferson County)

Genesee River (only the portion in Monroe County)

Cattaraugus Creek (only the portion in Chautauqua or Erie Counties)

Although they were not included in the 2007 survey, we note the following tributaries should be included in future surveys.

Buffalo River (only the portion in Erie County)

Cazenovia Creek (only the portion in Erie County)

Delaware Creek

Silver Creek (the one in Chautauqua County)

Walnut Creek

Canadaway Creek

Chautauqua Creek

Little Salmon River (the one in Oswego County)

Stony Creek (the one in Jefferson County)

Mill Creek (the one in Jefferson County)

Twelve Mile Creek (the one in Niagara County)

Sandy Creek and South Sandy Creek (the ones in Jefferson County)

Skinner Creek (the one in Jefferson County)

Lindsey Creek