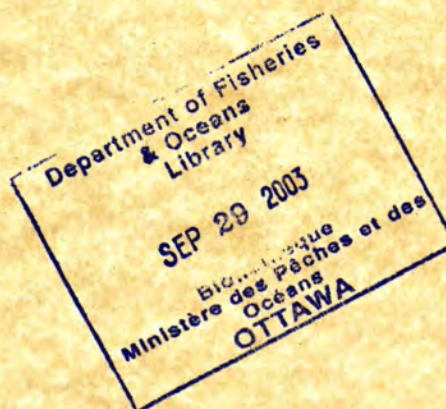




2000 SURVEY OF RECREATIONAL FISHING IN CANADA

Selected Results for the Great Lakes Fishery



Economic and Commercial Analysis

Report No. 168

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June 2003

Statistical Services
Economic and Policy Analysis Directorate
Department of Fisheries and Oceans
Ottawa, Ontario
K1A 0E6

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1. Data Source

The tables and charts presented in this report have been prepared using data from the Ontario component of the 2000 Survey of Recreational Fishing in Canada, a nationally co-ordinated study conducted at five-year intervals in all provinces and territories. The purpose of the survey is to provide data on a wide variety of topics of interest to fisheries managers at the various levels of government. The results presented in this report reflect data specifically defined for the Great Lakes Fishery.

2. Definition of "Great Lakes areas"

Anglers were asked to provide the name of the lake, river or stream on which they fished, the nearest town or village, the number of days fished, the number of fish caught and kept by species as well as other attitudinal and socio-economic information regarding their fishing activities. Estimates for Great Lakes waters were produced using the geographic coding used to identify each town, grouped according to their proximity to Great Lakes waters. The areas defined by the grouped codes form a continuous border along the system, generally one township deep (8 to 24 kilometres). This definition was used to facilitate comparison with the broader definition used in the United States survey. Individuals fishing tributaries of the Great Lakes further inland than what is defined by the geographic coding are not included as participants in the Great Lakes fishery.

A map detailing the Great Lakes areas is provided in Appendix 1. Specifically, these areas are defined as follows:

St. Lawrence River: East of Amherstview to the Ontario-Quebec border.

Lake Ontario: West from Amherstview to the Niagara peninsula, including the Niagara River to the eastern edge of the city of Fort Erie.

Note: In previous reports, Kingston was considered to be the dividing line between the St. Lawrence River and Lake Ontario. Amherstview is now used to conform to the Province of Ontario's fisheries management zones.

Lake Erie: West from Fort Erie to Amherstburg.

Lake St. Clair: North from Amherstburg to the southern edge of Sarnia (including the Detroit and St. Clair rivers).

Lake Huron: From Sarnia north to Sault Ste. Marie including the St. Mary's River.

Lake Superior: From north of Sault Ste. Marie to the Ontario-Wisconsin border.

3. Estimates of Effort and Angler Profile

All estimates of effort and numbers are for adults (18 years of age and over). Averages for each lake are based on the numbers of participants determined for each, while those for the system as a whole are based on the total number of participants on any of the lakes in the system (see Table 1). Information in tables referring to totals for Ontario is based on the activities of Great Lakes anglers only. This information is presented in order to reflect the relative degree of importance associated with the Great Lakes when compared to all fishing activities of Great Lakes anglers in Ontario.

4. Expenditures

Although expenditures were collected on a household basis, allocation for the Great Lakes fishery was based on the fishing activity of individuals. The following procedure was used:

- if all days were spent on the Great Lakes system, all expenditures were assigned to the system. Expenditures for each water body within the system were allocated on the basis of the proportion of time spent on each water body.
- if the days spent on the Great Lakes system represented only a subset of all days in Ontario, the portion of the expenditures to be assigned to the system was estimated using the proportion of activity on the system. Estimates by water body within the system were then allocated on the basis of the amount of activity on each as a percentage of all days on the Great Lakes system.

5. Major Purchases, Investments and Package Deals

In the 1985 report on the Great Lakes fishery, no attempt was made to allocate expenditures made on major purchases and investments or package deals insofar as such purchases could not be "attributed" to Great Lakes fishing. This position was reconsidered in 1990 and was maintained since then. Expenditures for major purchases and investments have been provided using the allocation of expenditure dollars described above. This has been done both for expenditures made in whole or in part for recreational fishing and for the estimated amount directly attributable to recreational fishing. Expenses incurred for package deals have been allocated on the basis of only those packages purchased specifically on each of the Great Lakes.

6. Data Processing and Data Availability

Standard coding and editing procedures used in the 2000 Survey of Recreational Fishing in Canada were used to prepare the data in this report. Data was analysed using SPSS/PC Version 11.5. System files and raw data files can be generated for analysis.

7. Reliability

Because the information provided in this report is a subset of a larger survey, the reliability of the data should be considered when making statements with respect to the data. It should be noted that all data are presented without rounding to the nearest hundred or thousand. This is not intended to reflect the degree of reliability of the data but was done in this way to facilitate production of tables to reflect data generated from the system. A table indicating the reliability of key variables (as coefficients of variation) is provided in Appendix 3. The sampling methodology was identical to 1995. Anglers were chosen from the "Outdoors Card" database instead of the usual telephone interview method. **Comparisons with reports prior to 1995 should not be attempted.**

8. Contact - Further Information

Additional information or clarification of the results presented in this report may be obtained by contacting the Department of Fisheries and Oceans using the information provided below.

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9. **Highlights**

- an estimated 469,128 anglers fished on the Great Lakes in 2000, of which 336,632 were residents of Ontario and 132,496 were visitors to Ontario, primarily from the United States
- Great Lake anglers were mostly male (85%) with an average age of 42 years old whereas female anglers averaged 38 years of age
- over 5.3 million days were spent fishing on the Great Lakes in 2000, with residents averaging 13.1 days, non-resident Canadians 5.4 days and non-resident foreigners 7.1 days
- most of these angler days were spent fishing on Lake Huron (2.5 million) and on Lake Ontario (1.3 million). The same two lakes were the most popular for ice fishing
- Great Lakes anglers caught a total of 41.1 million fish of all species of which 25.5 million were in the Great Lakes System
- of all fish retained on the Great Lakes, perch ranked first in terms of numbers at 2.8 million, followed in order by walleye (1.4 million), smelt (1.1 million) and smallmouth bass (0.6 million)
- anglers retained 31% of all fish caught from the Great Lakes ranging from 12% from Lake Ontario to 44% from Lake St. Clair
- Great Lakes anglers kept over 50% of only four species: splake (65%), smelt (64%), sturgeon (57%) and walleye (54%)
- Great Lakes anglers spent an estimated \$390 million on durable goods used in whole or in part for recreational fishing, allocated on the basis of their Great Lakes fishing activity
- of this amount, they attributed \$201 million (52%) to their recreational fishing activities on the Great Lakes system in 2000
- they also spent \$214 million on goods and services directly related to their fishing activities, averaging \$455 per angler

10. Comparisons With 1995 Survey

- The number of anglers who fished on the Great Lakes in 2000 dropped by 15.1% since 1995 mainly due to a decrease of 30.6% in the number of resident Ontario anglers and despite an increase of 96% in the number of visitors to Ontario, primarily from the United States.
- The largest decrease in the number of resident anglers occurred on Lake Superior (46%) followed by Lake Ontario (44%) and the smallest decrease was on the St. Lawrence River (8%).
- There was a decrease of almost 25% in the number of days fished on the Great Lakes of which residents accounted for a 33% drop, since 1995.
- The largest decrease in days fished by resident anglers occurred on the St.-Lawrence River (62%) followed by Lake St. Clair (61%) and Lake Superior (58%) and the smallest decrease was on Lake Huron (13%).
- The number of fish caught on the Great Lakes system decreased by 21.6% with the St. Lawrence river catch decreasing by 56.9% while the Lake Erie catch was the only one showing an increase since 1995 (41.3%). A large portion of this decrease was due to perch harvests which dropped by 41% overall, which includes a 66% drop on the St. Lawrence River and a 60% decrease on Lake St. Clair since 1995.
- The number of fish kept on the Great Lakes system decreased by 41.3% with the St. Lawrence River harvest showing the most dramatic reduction, declining by 74.2%. The Lake Erie catch was the only one showing an increase since 1995 (58.8%). A large portion of the decrease was due to perch harvests that dropped by 38% overall, much of that (80%) occurred on the St. Lawrence River since 1995. The number of walleye kept from Lake Huron increased by 203%. The number of smelts retained increased dramatically on both Lake Erie and Lake Superior.
- Great Lakes anglers increased the amount (to \$390 million) spent on durable goods used in whole or in part for recreational fishing by over 37% from 1995. The most notable increase was seen in Lake Erie anglers whose investments escalated by 119% followed by Lake Huron anglers with 105%. Special vehicles, camping equipment and boating equipment were the big sellers, especially among foreign anglers.
- The amount attributable to recreational fishing also increased (to \$201 million) by 41.5% with Lake Superior and Lake Erie both showing increases of over 100%.
- Great Lakes anglers spent \$214 million on goods and services directly related to their fishing activities, averaging \$455 per angler. This was only a 2.8% decrease in overall expenditure. Lake St. Clair showed a 45% increase in expenditures since 1995 followed by Lake Huron with 20%. There was a decrease in all other areas.

ABSTRACT

In May, 2000, the Department of Fisheries and Oceans, in cooperation with all federal, provincial and territorial licensing agencies, undertook the 2000 Survey of Recreational Fishing in Canada.

Information on angling in Canada has been collected at five-year intervals since 1975. Since 1980, the Great Lakes Fishery Commission has requested that information specific to the Great Lakes system be developed in order that they could determine the economic importance of this fishery. This request was made of both the Department of Fisheries and Oceans and the Fish and Wildlife Service of the United States Department of the Interior since national surveys were being conducted by both agencies.

The surveys are no longer carried out in the same year. Canada has maintained the original five-year interval whereas in the U.S., the survey is conducted to coincide with census years.

Data has been generated to reflect activity by both residents of the province and visitors who fished in Ontario and, more specifically, on the Great Lakes system.

RÉSUMÉ

En mai, 2000, le ministère des Pêches et des Océans, de concert avec tous les organismes fédéraux, provinciaux et territoriaux chargés de délivrer les permis, a réalisé l'Enquête sur la pêche récréative au Canada en 2000.

L'information sur la pêche récréative au Canada est recueillie aux cinq ans depuis la première enquête en 1975. La Commission des pêcheries des Grands Lacs a réclamé depuis 1980 des données particulières aux Grands Lacs afin de pouvoir établir l'importance économique de la pêche qui s'y pratique. Cette demande a été faite au ministère des Pêches et des Océans et au Fish and Wildlife Service du Département de l'Intérieur des États-Unis, les deux organismes chargés des enquêtes nationales.

Les enquêtes des deux pays n'ont plus lieu la même année. Le Canada continue de suivre son plan quinquennal tandis qu'aux États-Unis, l'enquête coïncide avec le recensement.

Les résultats reflètent la pêche récréative pratiquée par les Ontariens et les visiteurs en Ontario, et plus spécifiquement, dans le réseau des Grands Lacs.

TABLES AND FIGURES



TABLE 1
Profile and Effort Information for All Anglers in the Great Lakes Fishery

	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Lake Superior	St. Lawrence River	Great Lakes System ¹
Residents							
Number of anglers	100,635	68,591	19,781	159,857	16,480	17,183	336,632
average age	41.3	42.6	42.3	41.2	41.8	39.1	41.7
Males	89,012	60,544	17,287	129,438	14,973	14,618	283,300
average age	42.2	42.7	42.8	41.9	42.2	39.3	42.4
Females	11,623	8,047	2,494	30,420	1,507	2,565	53,333
average age	35.0	41.8	39.2	38.0	38.5	37.9	38.3
Total days fished	1,268,257	543,437	243,110	2,073,887	137,365	140,423	4,406,478
average days	12.6	7.9	12.3	13.0	8.3	8.2	13.1
Days icefishing	110,239	25,415	30,676	128,499	19,159	10,411	324,399
Icefishing (%)	8.7	4.7	12.6	6.2	13.9	7.4	7.4
Shore Activity (%)	46.4	36.8	48.7	41.8	29.3	41.5	41.2
Boat Activity (%)	53.6	63.2	51.3	58.2	70.7	58.5	58.8
Nonresident Canadian							
Number of anglers	4,575	223	309	1,282	466	2,099	7,990
average age	49.1	48.0	50.5	45.2	41.9	44.0	46.0
Males	3,906	223	309	1,128	309	1,943	6,849
average age	50.8	48.0	50.5	46.6	45.5	44.5	47.3
Females	670	-	-	154	158	158	1,142
average age	40.0	-	-	35.0	35.0	39.0	38.5
Total days fished	15,996	1,564	463	7,773	1,548	16,157	43,501
average days	3.5	7.0	1.5	6.1	3.3	7.7	5.4
Days icefishing	954	-	-	223	-	-	1,177
Icefishing (%)	6.0	-	-	2.9	-	-	2.7
Shore Activity (%)	22.8	60.0	25.0	20.2	29.3	31.7	29.6
Boat Activity (%)	77.2	40.0	75.0	79.8	70.7	68.3	70.4

¹ Refer to "Estimates of Effort and Angler Profile", page vi, section #3.

TABLE 1
Profile and Effort Information for All Anglers in the Great Lakes Fishery (cont.)

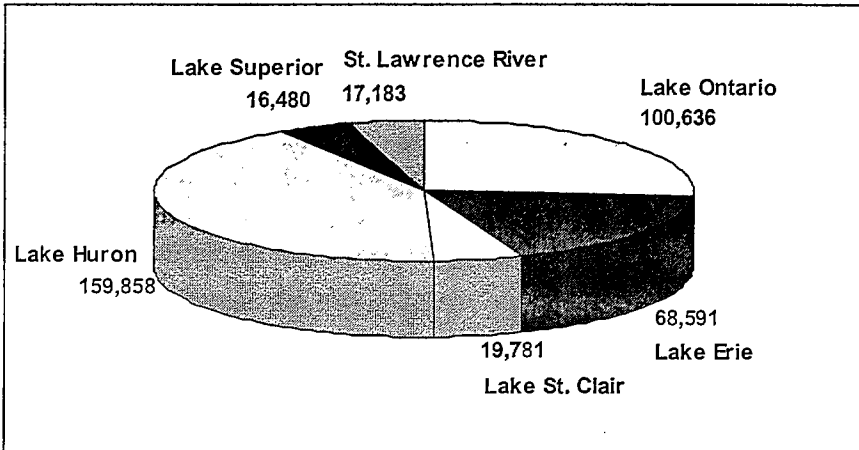
	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Lake Superior	St. Lawrence River	Great Lakes System ¹
Nonresident Non-Canadian							
Number of anglers	5,853	31,064	19,868	57,666	10,385	6,016	124,506
average age	53.7	49.6	48.5	49.6	49.4	49.2	49.6
Males	5,600	28,854	17,490	48,599	9,243	5,436	109,498
average age	53.8	49.6	48.3	48.9	49.1	48.7	49.2
Females	253	2,210	2,378	9,067	1,142	580	15,008
average age	53.0	50.7	49.6	53.1	51.9	54.3	52.5
Total days fished	24,737	174,028	171,903	415,589	63,783	31,553	881,593
average days	4.2	5.6	8.7	7.2	6.1	5.2	7.1
Days icefishing	-	706	2,472	6,564	131	-	9,873
Icefishing (%)	-	0.4	1.4	1.6	0.2	-	1.1
Shore Activity (%)	7.7	8.1	6.8	16.3	22.0	21.5	13.0
Boat Activity (%)	92.3	91.9	93.2	83.7	78.0	78.5	87.0
All Anglers							
Number of anglers	111,063	99,878	39,958	218,805	27,331	25,297	469,128
average age	42.3	44.8	45.5	43.4	44.7	41.9	43.9
Males	98,518	89,621	35,086	179,165	24,525	21,997	399,647
average age	43.1	44.9	45.6	43.9	44.8	42.1	44.3
Females	12,546	10,257	4,872	39,641	2,807	3,303	69,483
average age	35.6	43.7	44.3	41.4	43.7	40.9	41.3
Total days fished	1,308,991	719,029	415,476	2,497,249	202,695	188,132	5,331,571
average days	11.8	7.2	10.4	11.4	7.4	7.4	11.4
Days icefishing	111,193	26,121	33,147	135,286	19,291	10,411	335,450
Icefishing (%)	8.5	3.6	8.0	5.4	9.5	5.5	6.3
Shore Activity (%)	43.5	28.2	28.1	35.0	27.1	36.2	33.6
Boat Activity (%)	56.5	71.8	71.9	65.0	72.9	63.8	66.4

¹ Refer to "Estimates of Effort and Angler Profile", page vi, section #3.

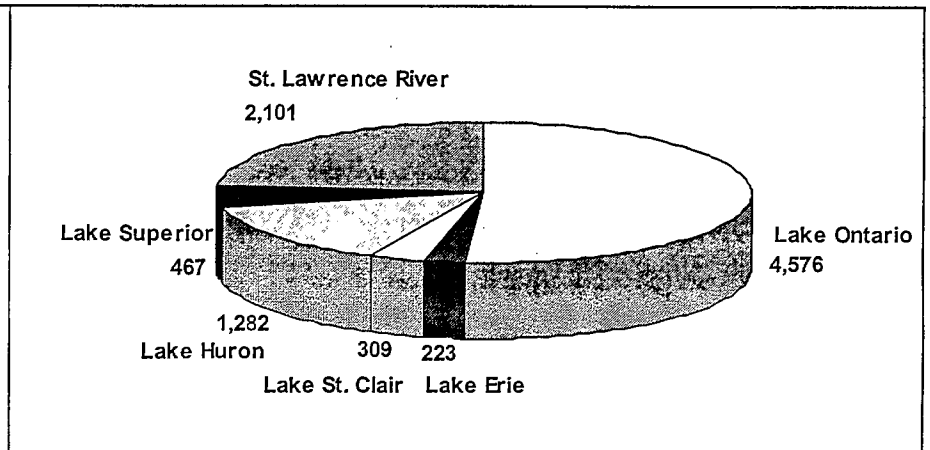
Figure 1

NUMBER OF ANGLERS WHO FISHED IN THE GREAT LAKES AREAS

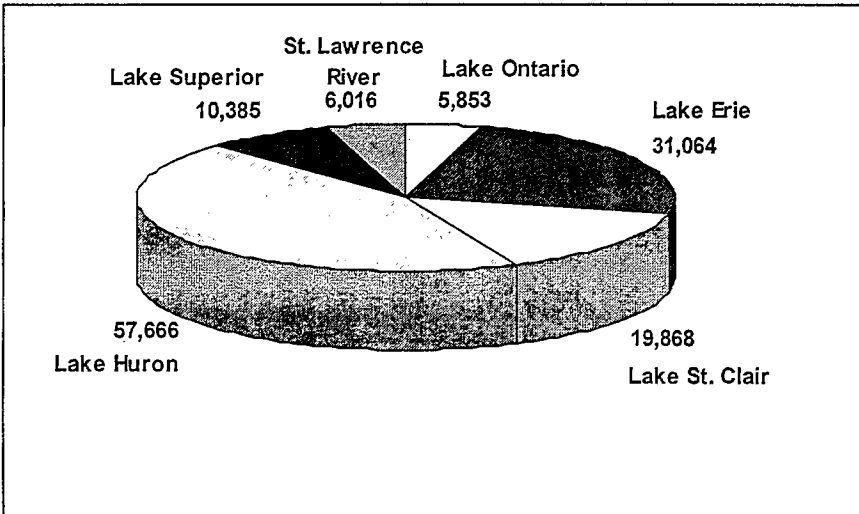
RESIDENT ANGLERS



NONRESIDENT CANADIAN ANGLERS



NONRESIDENT NON-CANADIAN ANGLERS



ALL ANGLERS

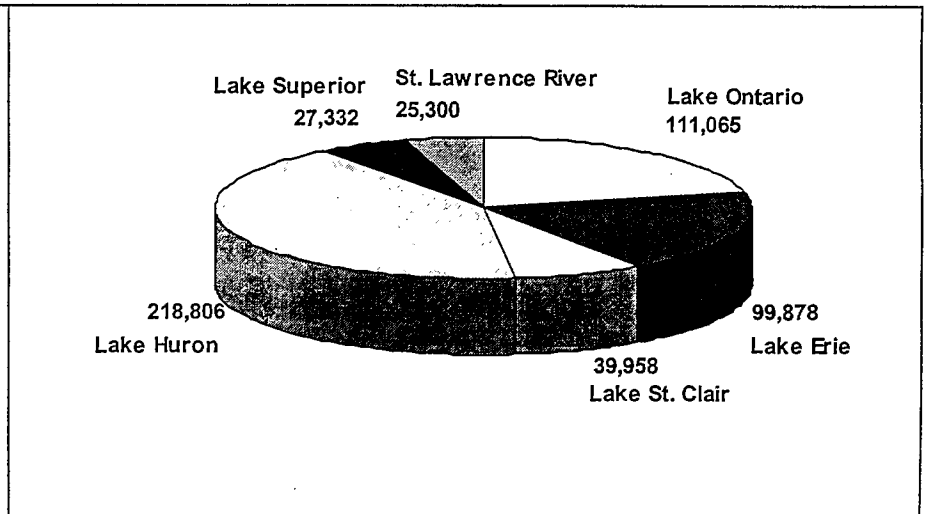


TABLE 2
 Number of Fish Caught by Species in the Great Lakes Fishery
 Resident Anglers Who Fished on the Great Lakes

	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Lake Superior	St. Lawrence River	Total Fish Caught in Great Lakes	Total Fish Caught in Ontario	Percent in Great Lakes
Walleye	370,512	211,999	95,442	730,119	246,705	35,346	1,690,124	3,297,621	51.3
Pike	179,528	170,501	7,974	461,064	101,152	82,691	1,002,911	1,781,525	56.3
Perch	1,040,303	1,204,651	876,049	977,573	43,994	587,025	4,729,597	7,627,128	62.0
Muskellunge	2,585	139	10,744	5,753	-	1,817	21,038	107,008	19.7
Whitefish	17,843	16,573	5,271	15,915	354	1,697	57,653	137,777	41.8
Smallmouth Bass	364,842	386,222	147,415	796,649	24,109	126,912	1,846,149	3,871,314	47.7
Largemouth bass	489,558	153,811	67,863	288,409	-	48,787	1,048,429	2,252,116	46.6
Rainbow Trout	185,464	25,446	5,126	267,299	8,602	-	491,936	667,650	73.7
Brown Trout	41,108	4,665	359	10,692	215	-	57,040	98,806	57.7
Lake Trout	51,070	4,063	839	74,173	8,285	1,618	140,048	277,511	50.5
Brook Trout	3,033	667	-	70,248	38,035	-	111,983	268,467	41.7
Splake	298	3,033	-	24,453	8,121	-	35,906	53,245	67.4
Chinook	262,287	1,542	3,398	235,715	1,698	-	504,640	599,204	84.2
Coho	32,507	1,349	1,272	46,541	2,475	643	84,787	139,553	60.8
Sturgeon	3,691	-	311	-	-	-	4,002	5,947	67.3
Catfish	532,171	53,997	28,938	110,466	639	52,706	778,916	1,122,330	69.4
Crappie	110,143	100,208	60,165	175,545	-	6,239	452,300	1,167,540	38.7
Rock Bass	739,849	333,804	68,240	619,317	-	31,150	1,792,361	3,367,101	53.2
Sunfish	998,046	292,370	64,807	416,939	370	90,033	1,862,565	3,631,157	51.3
Smelt	667,795	560,283	73,747	163,388	194,951	-	1,660,163	1,926,248	86.2
Other fish	143,634	115,317	21,330	40,247	2,372	781	323,682	555,731	58.2
Total fish	6,236,268	3,640,637	1,539,292	5,530,507	682,077	1,067,446	18,696,227	32,954,979	56.7
average per angler	62.0	53.1	77.8	34.6	41.4	62.1	55.5		

FIGURE 2

DISTRIBUTION OF FISH CAUGHT BY SPECIES BY RESIDENT ANGLERS
IN THE GREAT LAKES AREAS

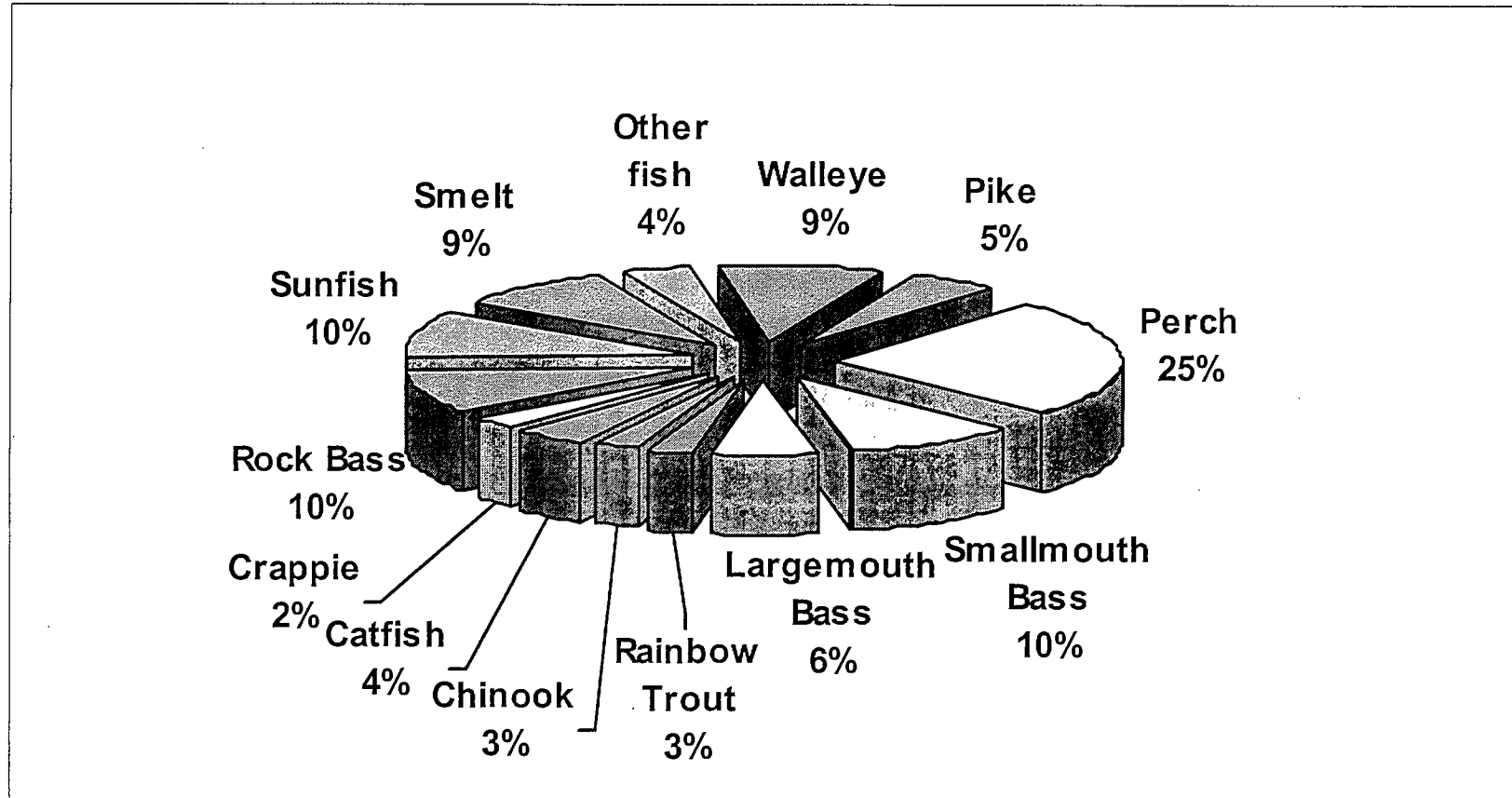


TABLE 3
 Number of Fish Caught by Species in the Great Lakes Fishery
 Nonresident Canadian Anglers Who Fished on the Great Lakes

	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Lake Superior	St. Lawrence River	Total Fish Caught in Great Lakes	Total Fish Caught in Ontario	Percent in Great Lakes
Walleye	1,441	-	1,235	1,544	1,243	429	5,892	6,562	89.8
Pike	634	-	-	1,706	313	1,889	4,541	5,212	87.1
Perch	8,036	-	-	19,058	618	53,930	81,642	81,761	99.9
Muskellunge	-	-	-	-	-	240	240	687	34.9
Whitefish	176	-	-	-	-	-	176	176	100.0
Smallmouth Bass	5,934	-	926	1,722	463	14,344	23,390	24,694	94.7
Largemouth bass	889	-	-	2,389	-	2,938	6,216	6,663	93.3
Rainbow Trout	5,354	-	-	214	-	-	5,568	5,568	100.0
Brown Trout	223	-	-	-	-	-	223	223	100.0
Lake Trout	1,943	-	-	-	-	-	1,943	1,943	100.0
Brook Trout	-	-	-	-	-	-	-	-	-
Splake	-	-	-	-	-	-	-	-	-
Chinook	6,988	-	-	-	-	-	6,988	6,988	100.0
Coho	1,341	1,341	-	-	-	-	2,681	2,681	100.0
Sturgeon	-	-	-	-	-	-	-	-	-
Catfish	926	-	-	-	-	158	1,085	1,085	100.0
Crappie	-	-	-	3,088	-	1,885	4,973	4,973	100.0
Rock Bass	3,168	-	-	5,679	-	4,078	12,925	17,775	72.7
Sunfish	5,305	-	-	5,362	-	4,863	15,530	15,710	98.9
Smelt	-	-	-	-	-	-	-	-	-
Other fish	618	-	-	223	-	223	1,064	2,832	37.6
Total fish	42,974	1,341	2,161	40,986	2,637	84,976	175,076	185,531	94.4
average per angler	9.4	6.0	7.0	31.9	5.6	40.4	21.9		

FIGURE 3

DISTRIBUTION OF FISH CAUGHT BY SPECIES BY NONRESIDENT CANADIAN ANGLERS
IN THE GREAT LAKES AREAS

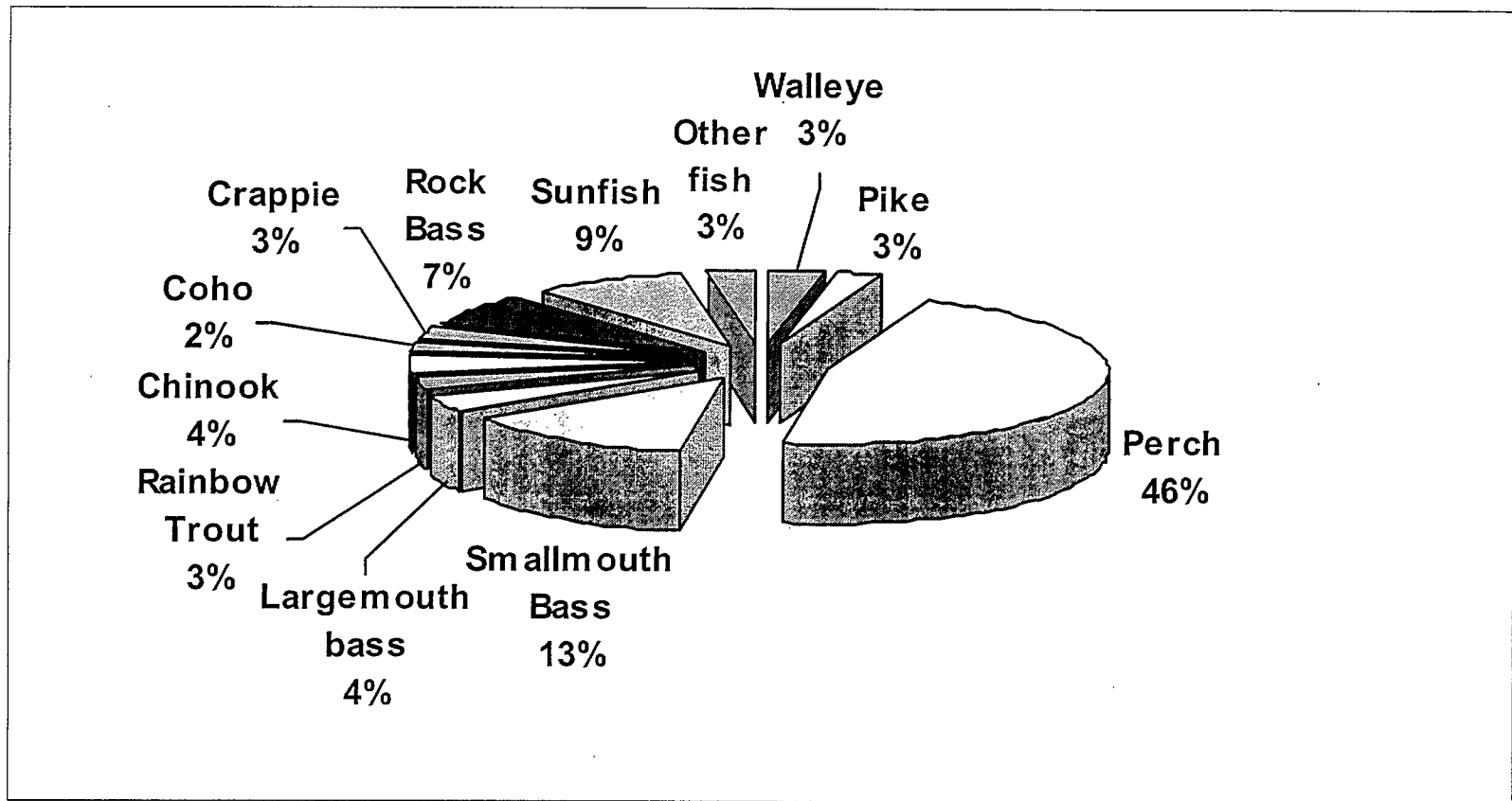


TABLE 4
 Number of Fish Caught by Species in the Great Lakes Fishery
 Nonresident Non-Canadian Anglers Who Fished on the Great Lakes

	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Lake Superior	St. Lawrence River	Total Fish Caught in Great Lakes	Total Fish Caught in Ontario	Percent in Great Lakes
Walleye	15,545	316,328	164,220	124,712	259,058	6,116	885,979	1,243,260	71.3
Pike	29,499	10,812	98,642	397,651	91,967	29,492	658,063	790,036	83.3
Perch	50,916	240,180	755,299	502,927	33,867	68,167	1,651,355	2,037,267	81.1
Muskellunge	61	-	48,274	3,078	185	192	51,790	53,621	96.6
Whitefish	236	10,874	61	1,574	632	393	13,770	17,138	80.3
Smallmouth Bass	18,103	554,957	374,590	475,739	73,750	68,862	1,566,001	1,651,968	94.8
Largemouth bass	5,468	22,430	99,443	88,222	-	29,128	244,690	290,477	84.2
Rainbow Trout	3,034	4,327	243	6,685	1,949	-	16,238	16,784	96.7
Brown Trout	816	3,672	1,521	-	2,098	-	8,107	8,168	99.3
Lake Trout	4,075	926	-	12,176	28,841	-	46,017	56,525	81.4
Brook Trout	-	370	370	1,819	12,124	-	14,684	17,295	84.9
Splake	-	740	740	525	1,402	-	3,407	3,407	100.0
Chinook	5,334	-	2,623	48,865	1,049	-	57,871	69,126	83.7
Coho	2,520	1,003	918	26,471	1,049	-	31,961	31,961	100.0
Sturgeon	-	-	-	436	1,542	-	1,978	1,978	100.0
Catfish	787	41,412	19,432	16,927	243	1,457	80,258	91,621	87.6
Crappie	-	12,562	26,391	20,534	-	1,184	60,672	80,849	75.0
Rock Bass	6,187	45,213	221,163	356,967	1,718	25,326	656,574	710,617	92.4
Sunfish	6,569	12,930	105,169	97,896	607	7,251	230,422	331,626	69.5
Smelt	-	6,072	-	-	-	-	6,072	6,133	99.0
Other fish	1,162	273,923	39,635	64,317	1,967	1,139	382,142	411,045	93.0
Total fish	150,311	1,558,730	1,958,733	2,247,520	514,049	238,708	6,668,051	7,920,901	
average per angler	25.7	50.2	98.6	39.0	49.5	39.7	53.6		

FIGURE 4

DISTRIBUTION OF FISH CAUGHT BY SPECIES BY NONRESIDENT NON-CANADIAN ANGLERS
IN THE GREAT LAKES AREAS

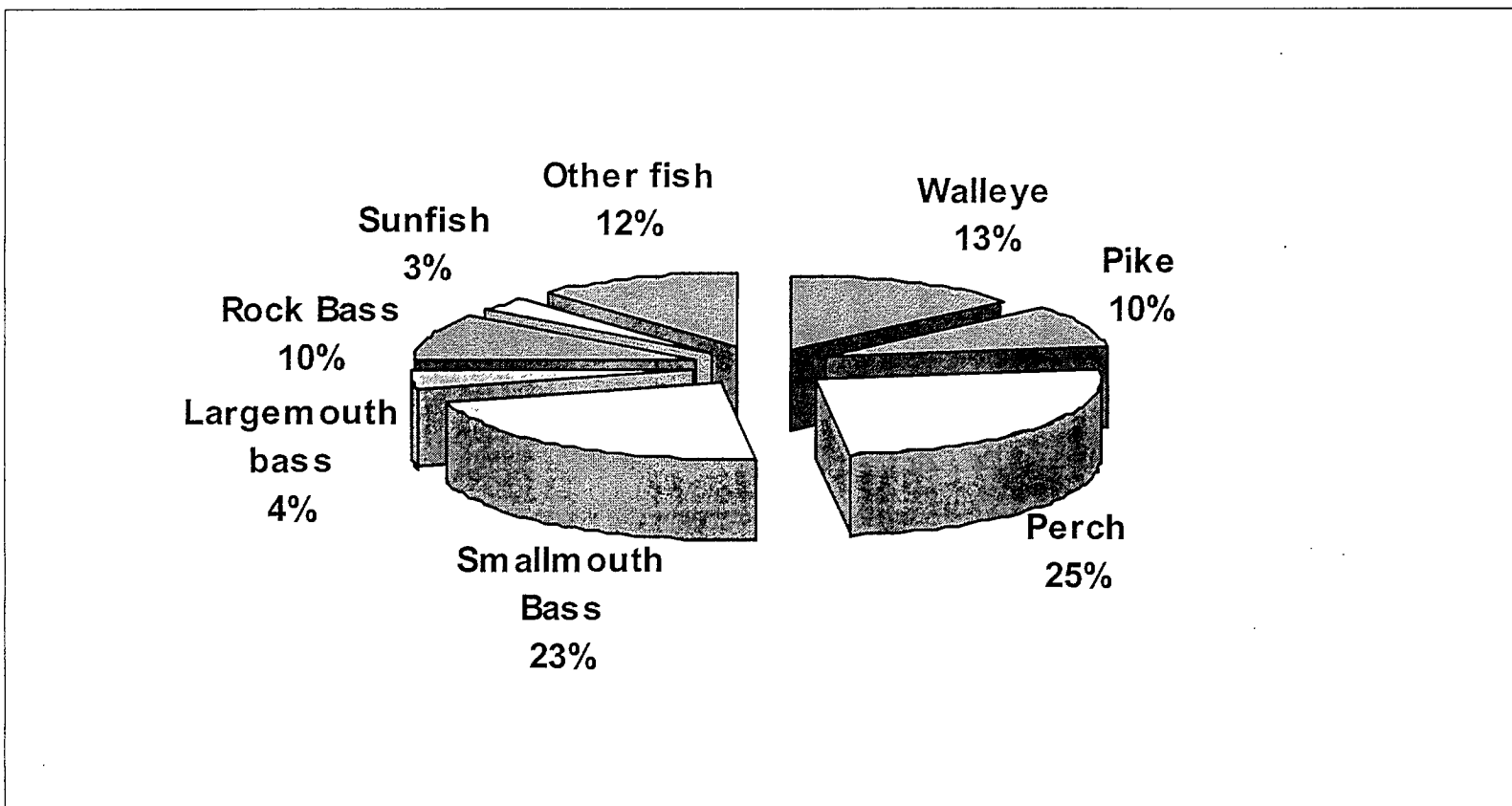


TABLE 5
 Number of Fish Caught by Species in the Great Lakes Fishery
 All Anglers Who Fished on the Great Lakes

	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Lake Superior	St. Lawrence River	Total Fish Caught in Great Lakes	Total Fish Caught in Ontario	Percent in Great Lakes
Walleye	387,498	528,326	260,898	856,375	507,007	41,891	2,581,995	4,547,443	56.8
Pike	209,661	181,313	106,616	860,421	193,432	114,073	1,665,515	2,576,772	64.6
Perch	1,099,255	1,444,831	1,631,348	1,499,559	78,479	709,122	6,462,593	9,746,156	66.3
Muskellunge	2,646	139	59,017	8,831	185	2,248	73,067	161,316	45.3
Whitefish	18,255	27,447	5,332	17,489	986	2,090	71,599	155,091	46.2
Smallmouth Bass	388,879	941,179	522,931	1,274,111	98,322	210,118	3,435,540	5,547,976	61.9
Largemouth bass	495,915	176,241	167,306	379,020	-	80,853	1,299,336	2,549,256	51.0
Rainbow Trout	193,852	29,773	5,369	274,198	10,551	-	513,742	690,003	74.5
Brown Trout	42,148	8,336	1,880	10,692	2,313	-	65,370	107,197	61.0
Lake Trout	57,087	4,988	839	86,349	37,126	1,618	188,008	335,979	56.0
Brook Trout	3,033	1,037	370	72,068	50,159	-	126,667	285,762	44.3
Splake	298	3,774	740	24,978	9,523	-	39,313	56,652	69.4
Chinook	274,609	1,542	6,020	284,580	2,747	-	569,498	675,317	84.3
Coho	36,368	3,693	2,189	73,012	3,524	643	119,429	174,196	68.6
Sturgeon	3,691	-	311	436	1,542	-	5,980	7,926	75.5
Catfish	533,884	95,408	48,371	127,393	882	54,321	860,259	1,215,036	70.8
Crappie	110,143	112,770	86,556	199,167	-	9,308	517,944	1,253,362	41.3
Rock Bass	749,204	379,017	289,403	981,963	1,718	60,554	2,461,859	4,095,492	60.1
Sunfish	1,009,919	305,300	169,976	520,198	977	102,147	2,108,517	3,978,493	53.0
Smelt	667,795	566,355	73,747	163,388	194,951	-	1,666,235	1,932,381	86.2
Other fish	145,414	389,240	60,965	104,788	4,339	2,143	706,888	969,608	72.9
Total fish	6,429,554	5,200,708	3,500,187	7,819,013	1,198,763	1,391,130	25,539,355	41,061,411	62.2
average per angler	57.9	52.1	87.6	35.7	43.9	55.0	54.4		

FIGURE 5

DISTRIBUTION OF FISH CAUGHT BY SPECIES BY ALL ANGLERS
IN THE GREAT LAKES AREAS

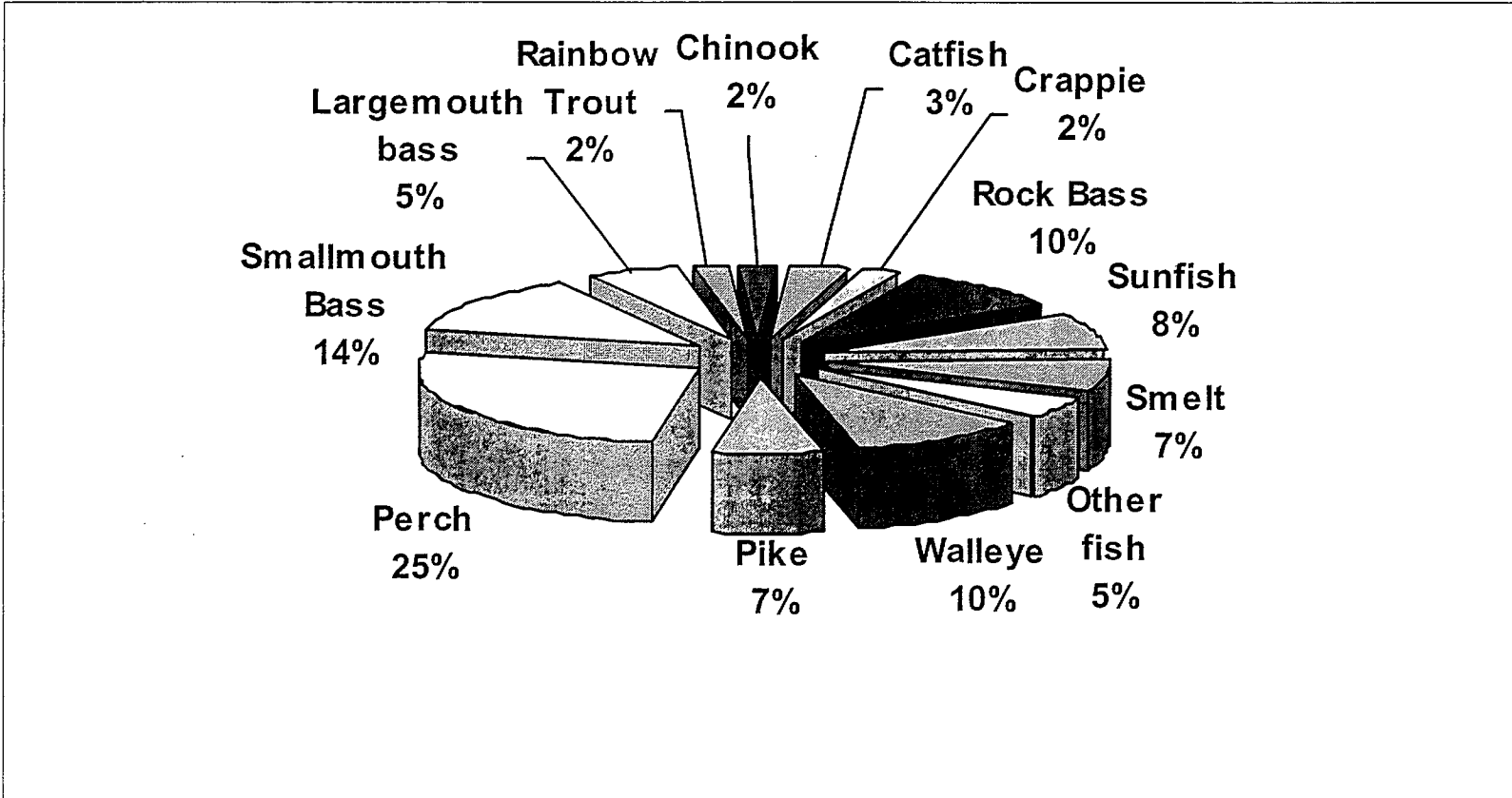


TABLE 6
 Number of Fish Kept by Species in the Great Lakes Fishery
 Resident Anglers Who Fished on the Great Lakes

	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Lake Superior	St. Lawrence River	Total Fish Kept in Great Lakes	Total Fish Kept in Ontario	Percent in Great Lakes
Walleye	121,242	135,046	65,597	545,465	73,943	10,037	951,330	1,600,764	59.4
Pike	25,505	14,669	655	158,280	6,709	3,640	209,458	316,957	66.1
Perch	122,559	582,992	500,216	371,329	24,316	286,038	1,887,449	3,260,595	57.9
Muskellunge	281	-	3,201	-	-	-	3,482	5,400	64.5
Whitefish	4,385	128	-	7,301	354	-	12,169	67,364	18.1
Smallmouth Bass	16,245	127,418	31,677	217,991	1,505	15,856	410,692	706,957	58.1
Largemouth bass	49,189	17,109	8,602	58,889	-	3,847	137,636	306,612	44.9
Rainbow Trout	36,080	19,188	2,737	132,949	6,945	-	197,898	262,737	75.3
Brown Trout	5,385	1,580	-	2,991	215	-	10,172	19,575	52.0
Lake Trout	7,727	2,988	839	33,423	3,634	722	49,334	119,600	41.2
Brook Trout	2,942	510	-	5,206	23,330	-	31,988	108,267	29.5
Splake	144	625	-	14,525	8,121	-	23,415	35,972	65.1
Chinook	56,645	1,230	912	157,239	1,698	-	217,724	268,362	81.1
Coho	13,358	1,198	1,078	25,693	2,014	643	43,985	72,740	60.5
Sturgeon	2,214	-	-	-	-	-	2,214	2,815	78.7
Catfish	80,003	10,639	5,263	46,372	-	47,066	189,344	230,307	82.2
Crappie	9,037	42,913	24,349	66,182	-	1,372	143,853	343,365	41.9
Rock Bass	12,650	14,422	6,093	17,278	-	-	50,444	188,911	26.7
Sunfish	32,180	12,753	22,954	2,549	-	45,625	116,060	430,176	27.0
Smelt	95,468	559,664	57,194	154,562	194,951	-	1,061,838	1,274,953	83.3
Other fish	5,541	7,167	1,488	3,626	1,087	781	19,691	74,441	26.5
Total fish	698,781	1,552,240	732,855	2,021,849	348,822	415,628	5,770,175	9,696,869	59.5
average per angler	6.9	22.6	37.0	12.6	21.2	24.2	17.1		

FIGURE 6

DISTRIBUTION OF FISH KEPT BY SPECIES BY RESIDENT ANGLERS
IN THE GREAT LAKES AREAS

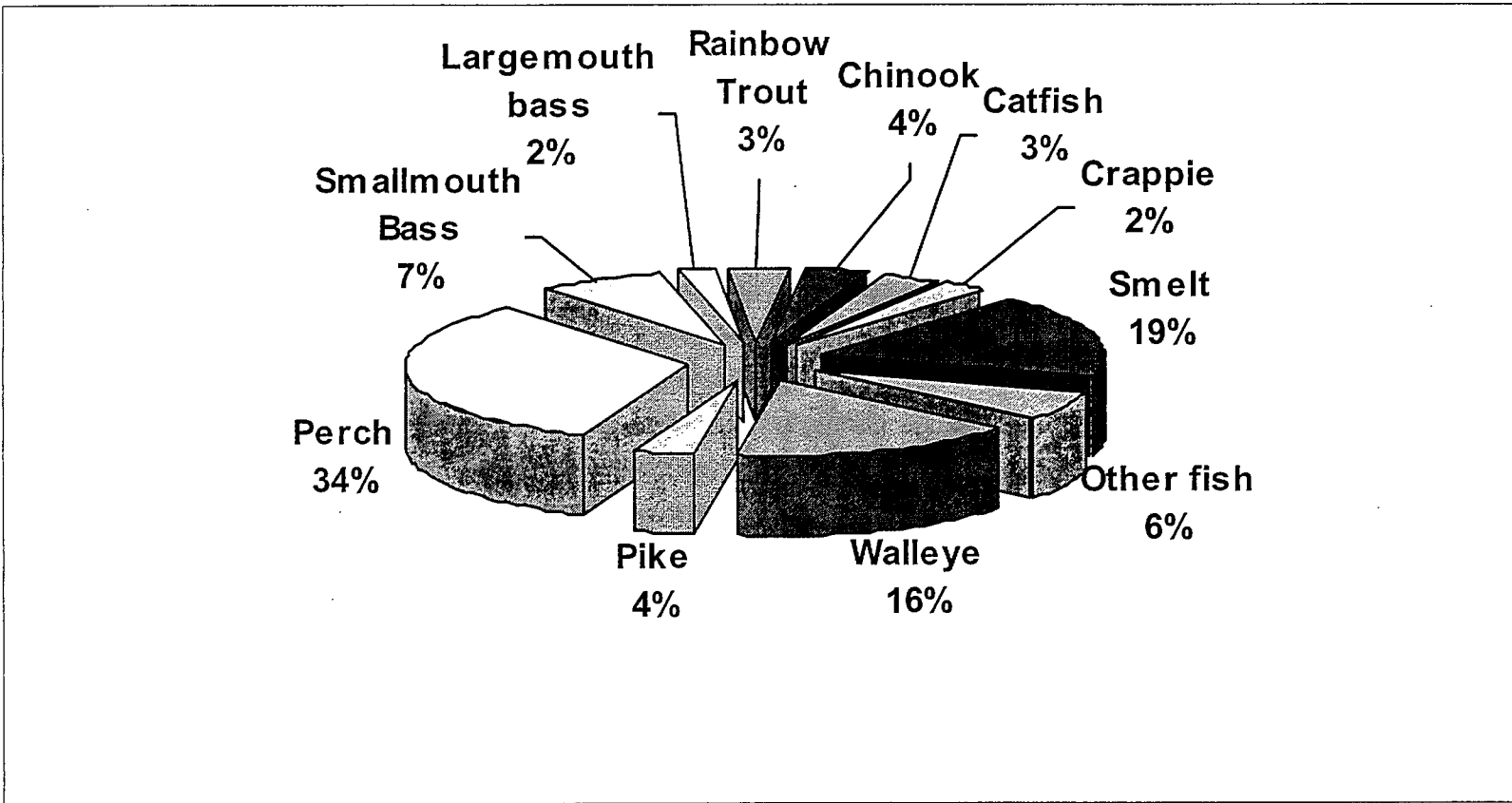


TABLE 7
 Number of Fish Kept by Species in the Great Lakes Fishery
 Nonresident Canadian Anglers Who Fished on the Great Lakes

	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Lake Superior	St. Lawrence River	Total Fish Kept in Great Lakes	Total Fish Kept in Ontario	Percent in Great Lakes
Walleye	605	-	618	926	1,085	-	3,234	3,457	93.5
Pike	-	-	-	605	158	-	764	1,211	63.1
Perch	4,632	-	-	7,719	-	12,635	24,986	24,986	100.0
Muskellunge	-	-	-	-	-	-	-	-	-
Whitefish	-	-	-	-	-	-	-	-	-
Smallmouth Bass	2,011	-	-	475	463	447	3,396	3,843	88.4
Largemouth bass	618	-	-	447	-	475	1,540	1,540	100.0
Rainbow Trout	3,367	-	-	214	-	-	3,581	3,581	100.0
Brown Trout	223	-	-	-	-	-	223	223	100.0
Lake Trout	1,583	-	-	-	-	-	1,583	1,583	100.0
Brook Trout	-	-	-	-	-	-	-	-	-
Splake	-	-	-	-	-	-	-	-	-
Chinook	3,367	-	-	-	-	-	3,367	3,367	100.0
Coho	1,341	447	-	-	-	-	1,788	1,788	100.0
Sturgeon	-	-	-	-	-	-	-	-	-
Catfish	-	-	-	-	-	-	-	-	-
Crappie	-	-	-	-	-	-	-	-	-
Rock Bass	-	-	-	-	-	-	-	-	-
Sunfish	-	-	-	-	-	-	-	-	-
Smelt	-	-	-	-	-	-	-	-	-
Other fish	-	-	-	-	-	-	-	-	-
Total fish	17,747	447	618	10,387	1,706	13,557	44,461	45,579	97.5
average per angler	3.9	2.0	2.0	8.1	3.7	6.5	5.6		

FIGURE 7

DISTRIBUTION OF FISH KEPT BY SPECIES BY NONRESIDENT CANADIAN ANGLERS
IN THE GREAT LAKES AREAS

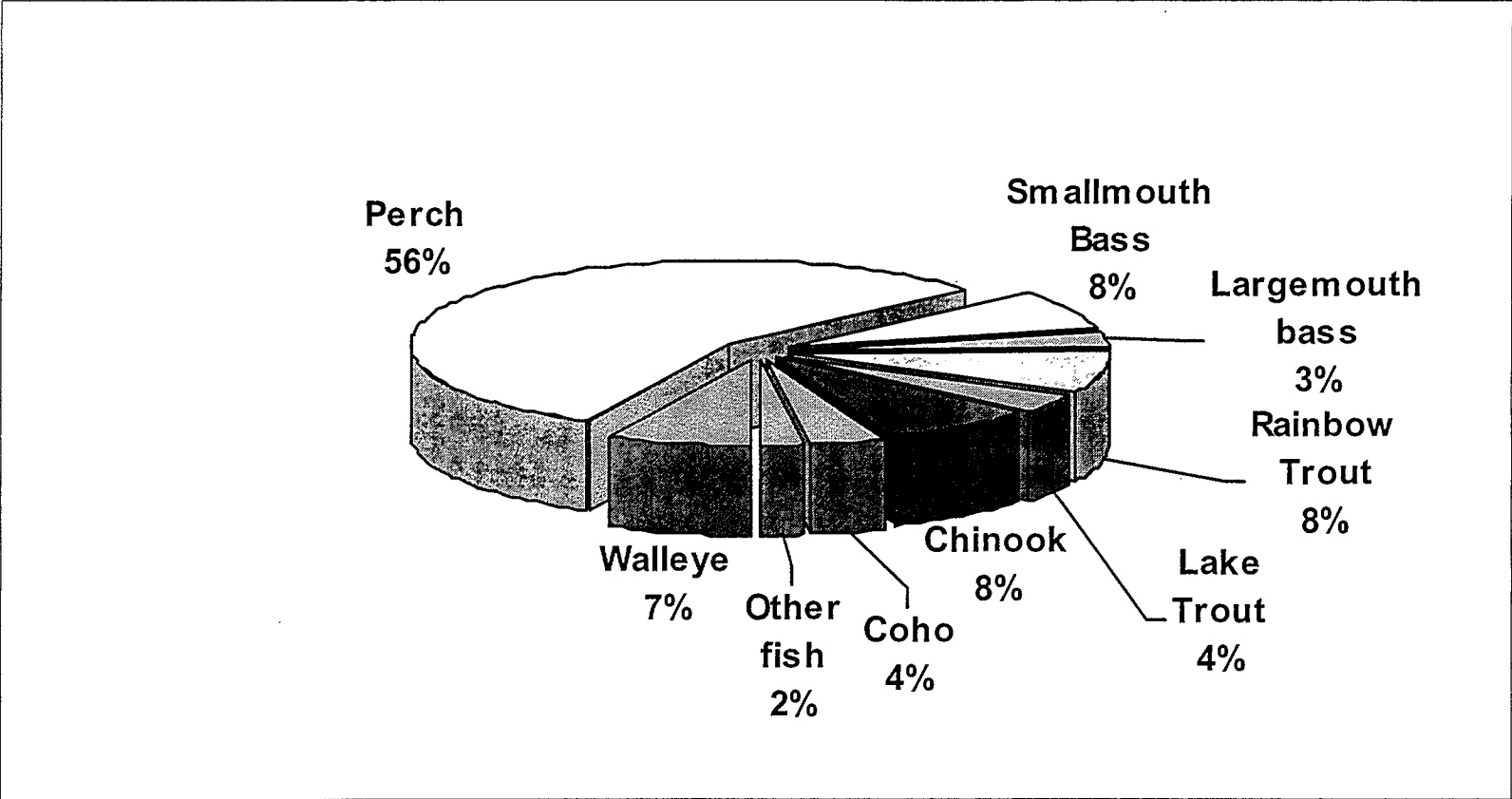


TABLE 8
 Number of Fish Kept by Species in the Great Lakes Fishery
 Nonresident Non-Canadian Anglers Who Fished on the Great Lakes

	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Lake Superior	St. Lawrence River	Total Fish Kept in Great Lakes	Total Fish Kept in Ontario	Percent in Great Lakes
Walleye	8,222	228,941	100,079	68,692	31,326	2,462	439,722	491,166	89.5
Pike	5,524	1,660	2,687	80,424	9,508	6,712	106,514	115,557	92.2
Perch	11,665	150,704	455,225	267,586	11,017	12,312	908,510	1,148,639	79.1
Muskellunge	-	-	185	218	185	-	588	588	100.0
Whitefish	236	1,528	-	1,574	632	393	4,363	7,731	56.4
Smallmouth Bass	5,175	70,444	24,152	107,789	3,409	9,021	219,988	230,548	95.4
Largemouth bass	1,429	2,062	4,097	18,301	-	4,099	29,988	32,844	91.3
Rainbow Trout	1,275	1,967	-	2,237	1,511	-	6,990	6,990	100.0
Brown Trout	131	2,178	1,311	-	-	-	3,621	3,621	100.0
Lake Trout	1,712	926	-	7,162	10,509	-	20,309	22,007	92.3
Brook Trout	-	370	370	-	4,836	-	5,576	5,759	96.8
Splake	-	740	740	525	131	-	2,136	2,136	100.0
Chinook	1,793	-	2,623	16,272	131	-	20,819	21,004	99.1
Coho	784	-	918	4,010	918	-	6,630	6,630	100.0
Sturgeon	-	-	-	-	1,180	-	1,180	1,180	100.0
Catfish	787	14,259	16,156	2,600	243	-	34,046	39,705	85.7
Crappie	-	4,744	20,691	10,135	-	-	35,570	50,335	70.7
Rock Bass	-	10,593	92,667	22,820	-	2,535	128,615	134,930	95.3
Sunfish	262	4,209	72,109	14,457	-	-	91,037	158,596	57.4
Smelt	-	6,072	-	-	-	-	6,072	6,133	99.0
Other fish	349	38,530	29,175	19,716	393	192	88,356	113,778	77.7
Total fish	39,343	539,926	823,186	644,518	75,931	37,727	2,160,631	2,599,876	83.1
average per angler	6.7	17.4	41.4	11.2	7.3	6.3	17.4		

FIGURE 8

DISTRIBUTION OF FISH KEPT BY SPECIES BY NONRESIDENT NON-CANADIAN ANGLERS
IN THE GREAT LAKES AREAS

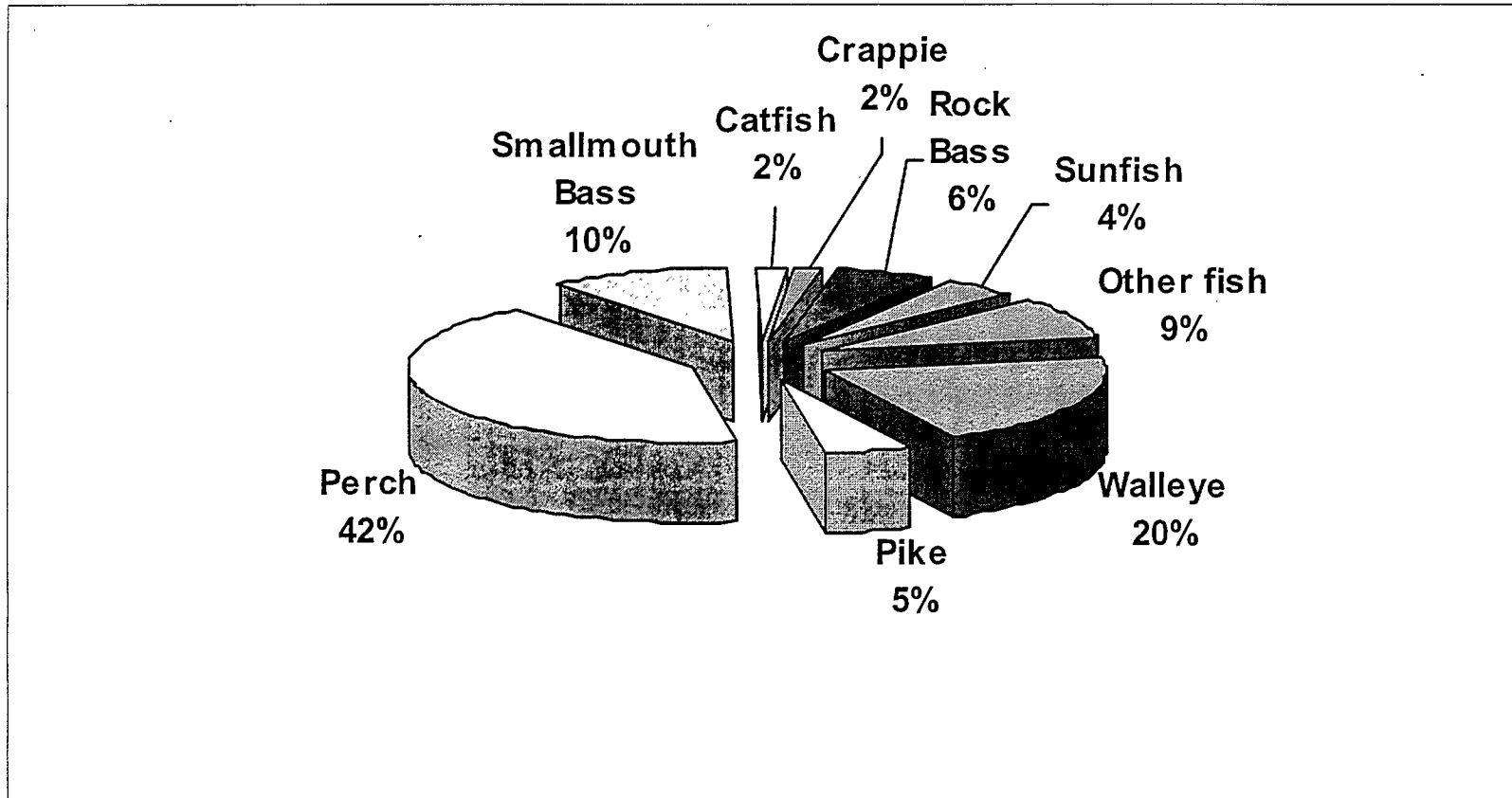


TABLE 9
 Number of Fish Kept by Species in the Great Lakes Fishery
 All Anglers Who Fished on the Great Lakes

	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Lake Superior	St. Lawrence River	Total Fish Kept in Great Lakes	Total Fish Kept in Ontario	Percent in Great Lakes
Walleye	130,069	363,987	166,294	615,083	106,354	12,499	1,394,286	2,095,387	66.5
Pike	31,029	16,329	3,342	239,309	16,376	10,352	316,736	433,725	73.0
Perch	138,856	733,696	955,441	646,634	35,333	310,985	2,820,944	4,434,220	63.6
Muskellunge	281	-	3,386	218	185	-	4,070	5,988	68.0
Whitefish	4,621	1,656	-	8,874	986	393	16,532	75,095	22.0
Smallmouth Bass	23,430	197,862	55,829	326,255	5,377	25,324	634,077	941,348	67.4
Largemouth bass	51,235	19,171	12,699	77,637	-	8,421	169,164	340,996	49.6
Rainbow Trout	40,721	21,155	2,737	135,400	8,456	-	208,469	273,307	76.3
Brown Trout	5,740	3,758	1,311	2,991	215	-	14,016	23,419	59.8
Lake Trout	11,022	3,914	839	40,585	14,143	722	71,226	143,190	49.7
Brook Trout	2,942	881	370	5,206	28,166	-	37,565	114,025	32.9
Splake	144	1,366	740	15,049	8,252	-	25,551	38,108	67.0
Chinook	61,805	1,230	3,535	173,511	1,829	-	241,911	292,733	82.6
Coho	15,483	1,644	1,996	29,703	2,932	643	52,402	81,157	64.6
Sturgeon	2,214	-	-	-	1,180	-	3,395	3,995	85.0
Catfish	80,790	24,899	21,420	48,972	243	47,066	223,390	270,012	82.7
Crappie	9,037	47,657	45,040	76,317	-	1,372	179,423	393,700	45.6
Rock Bass	12,650	25,015	98,761	40,098	-	2,535	179,059	323,841	55.3
Sunfish	32,442	16,961	95,062	17,006	-	45,625	207,097	588,772	35.2
Smelt	95,468	565,737	57,194	154,562	194,951	-	1,067,911	1,281,086	83.4
Other fish	5,891	45,697	30,663	23,343	1,480	973	108,047	188,219	57.4
Total fish	755,871	2,092,613	1,556,659	2,676,754	426,459	466,911	7,975,268	12,342,324	64.6
average per angler	6.8	21.0	39.0	12.2	15.6	18.5	17.0		

FIGURE 9

DISTRIBUTION OF FISH KEPT BY SPECIES BY ALL ANGLERS
IN THE GREAT LAKES AREAS

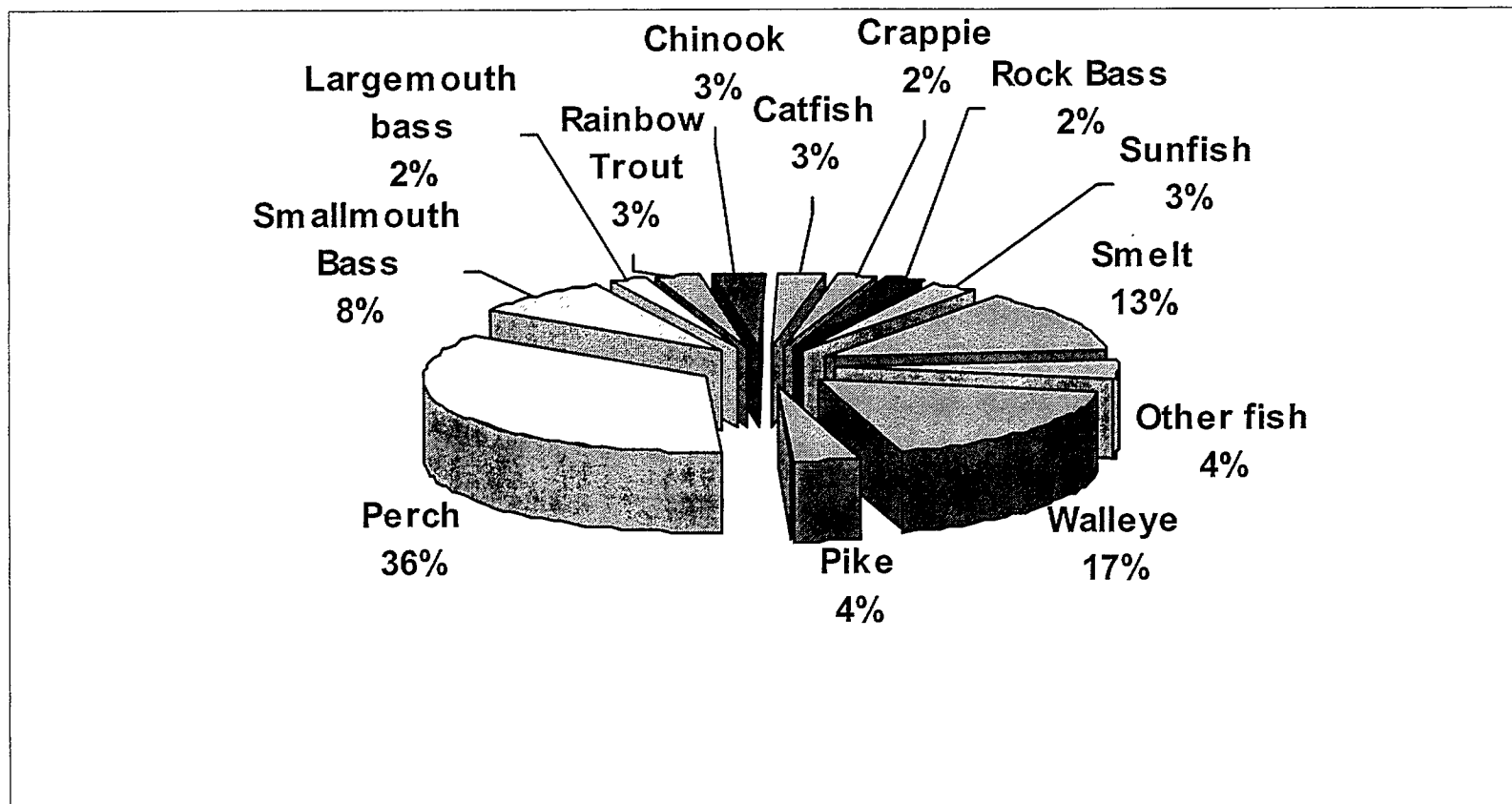


TABLE 10
Major Purchases and Investments Allocated to the Great Lakes Fishery
Resident Anglers Who Fished on the Great Lakes

Major Purchases and Investments

	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Lake Superior	St. Lawrence River	Amount Spent in Great Lakes	Amount Spent in Ontario	Percent in Great Lakes
Fish equipment	6,309,784	2,567,786	876,319	8,125,916	541,090	812,322	19,233,218	32,266,459	59.6
Boating equipment	52,391,403	24,643,507	3,319,607	58,283,755	5,196,513	4,348,512	148,183,297	203,096,501	73.0
Camping equipment	4,709,611	6,261,221	368,469	9,310,186	13,794,468	213,425	34,657,381	48,828,903	71.0
Vehicles	14,144,751	11,564,616	233,548	89,192,859	4,963,079	10,733,842	130,832,694	230,536,594	56.8
Land-Buildings	4,270,998	1,465,589	169,645	16,571,693	16,654	1,150,964	23,645,544	42,960,276	55.0
Other investments	2,183,575	422,653	377,750	4,218,949	720,839	343,572	8,267,338	15,205,337	54.4
Total investments	84,010,122	46,925,372	5,345,338	185,703,358	25,232,644	17,602,638	364,819,472	572,894,070	63.7
average per angler	834.79	684.13	270.23	1,161.68	1,531.11	1,024.42	1,083.73		

Major Purchases and Investments Attributable to Recreational Fishing

	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Lake Superior	St. Lawrence River	Amount Spent in Great Lakes	Amount Spent in Ontario	Percent in Great Lakes
Fish equipment	6,309,784	2,567,786	876,319	8,125,916	541,090	812,322	19,233,218	32,266,459	59.6
Boating equipment	33,938,356	18,999,270	3,029,925	33,033,733	5,178,289	3,350,058	97,529,630	140,348,495	69.5
Camping equipment	2,452,382	3,059,373	137,670	6,311,771	9,632,016	75,041	21,668,253	30,749,228	70.5
Vehicles	2,257,882	3,821,607	114,368	18,099,692	2,496,044	2,438,255	29,227,848	53,112,440	55.0
Land-Buildings	2,190,823	764,667	139,589	6,701,513	16,654	675,515	10,488,762	19,632,351	53.4
Other investments	1,853,278	369,494	341,654	3,323,164	625,492	185,238	6,698,321	12,177,403	55.0
Total investments	49,002,506	29,582,197	4,639,525	75,595,789	18,489,586	7,536,429	184,846,032	288,286,376	64.1
average per angler	486.93	431.28	234.54	472.89	1,121.94	438.60	549.10		

FIGURE 10

MAJOR PURCHASES ALLOCATED TO
GREAT LAKES FISHING ACTIVITIES BY RESIDENT ANGLERS

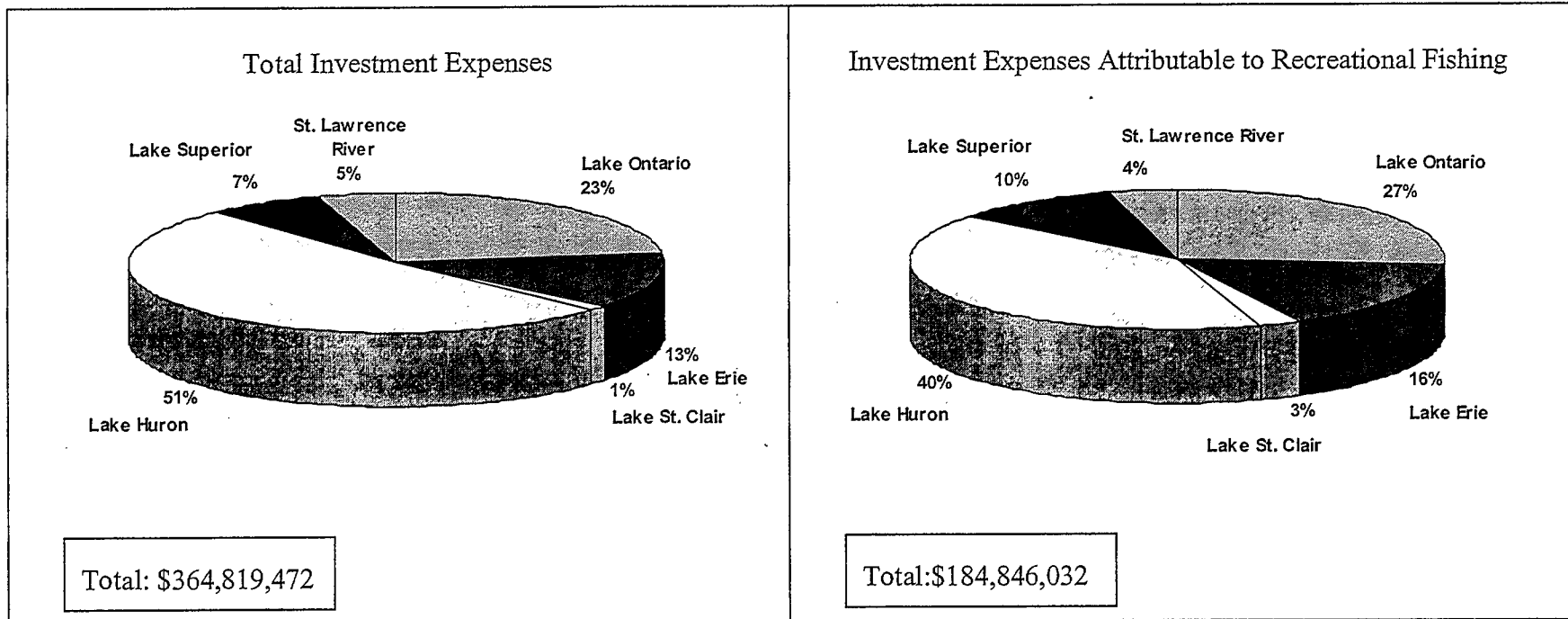


TABLE 11
Major Purchases and Investments Allocated to the Great Lakes Fishery
Nonresident Canadian Anglers Who Fished on the Great Lakes

Major Purchases and Investments

	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Lake Superior	St. Lawrence River	Amount Spent in Great Lakes	Amount Spent in Ontario	Percent in Great Lakes
Fish equipment	68,813	4,469	-	33,147	-	3,168	109,597	125,122	87.6
Boating equipment	223,444	-	-	111,722	-	-	335,167	782,056	42.9
Camping equipment	24,962	-	-	74,886	-	-	99,848	99,848	100.0
Vehicles	2,138,683	-	-	1,069,341	-	-	3,208,024	7,485,389	42.9
Land-Buildings	13,407	-	-	-	-	-	13,407	13,407	100.0
Other investments	15,274	11,172	-	37,443	-	-	63,890	63,890	100.0
Total investments	2,484,583	15,641	-	1,326,540	-	3,168	3,829,932	8,569,711	44.7
average per angler	542.96	70.14	-	1,033.94	-	1.51	479.34		

Major Purchases and Investments Attributable to Recreational Fishing

	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Lake Superior	St. Lawrence River	Amount Spent in Great Lakes	Amount Spent in Ontario	Percent in Great Lakes
Fish equipment	68,813	4,469	-	33,147	-	3,168	109,597	125,122	87.6
Boating equipment	111,722	-	-	55,861	-	-	167,583	391,028	42.9
Camping equipment	17,473	-	-	52,420	-	-	69,894	69,894	100.0
Vehicles	427,737	-	-	213,868	-	-	641,605	1,497,078	42.9
Land-Buildings	2,681	-	-	-	-	-	2,681	2,681	100.0
Other investments	14,506	8,100	-	37,443	-	-	60,049	60,049	100.0
Total investments	642,933	12,569	-	392,740	-	3,168	1,051,409	2,145,852	49.0
average per angler	140.50	56.36	-	306.11	-	1.51	131.59		

FIGURE 11

MAJOR PURCHASES ALLOCATED TO
GREAT LAKES FISHING ACTIVITIES BY NONRESIDENT CANADIAN ANGLERS

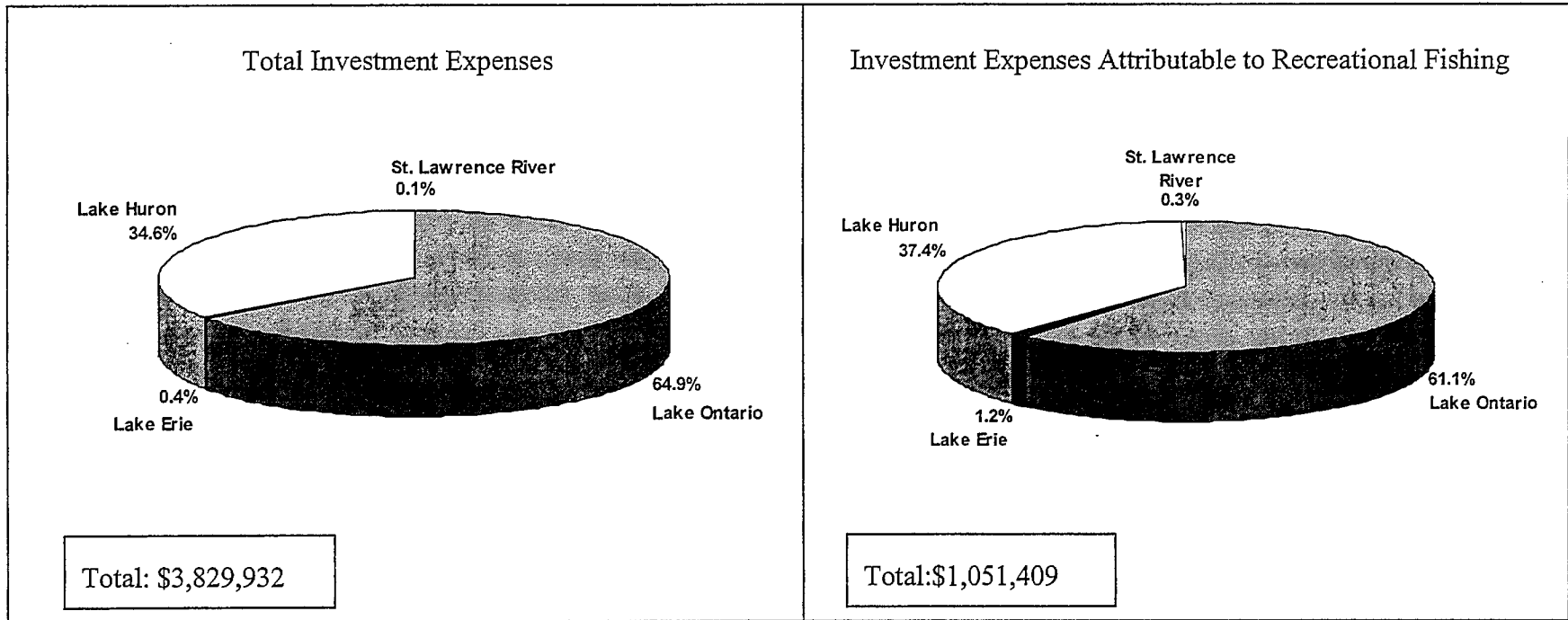


TABLE 12
Major Purchases and Investments Allocated to the Great Lakes Fishery
Nonresident Non-Canadian Anglers Who Fished on the Great Lakes

Major Purchases and Investments

	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Lake Superior	St. Lawrence River	Amount Spent in Great Lakes	Amount Spent in Ontario	Percent in Great Lakes
Fish equipment	39,918	233,356	80,090	197,160	127,111	-	677,635	775,147	87.4
Boating equipment	62,403	94,501	1,854,322	3,524,544	129,102	25,141	5,690,013	5,746,150	99.0
Camping equipment	4,181	2,065	-	13,244	556	-	20,045	41,671	48.1
Vehicles	-	-	-	170,323	-	-	170,323	170,323	100.0
Land-Buildings	-	1,048,426	20,057	12,734,931	501,197	-	14,304,611	14,473,362	98.8
Other investments	104,500	10,569	4,013	231,656	63,240	-	413,978	435,990	95.0
Total investments	211,002	1,388,916	1,958,483	16,871,858	821,206	25,141	21,276,605	21,642,642	98.3
average per angler	36.05	44.71	98.57	292.58	79.08	4.18	170.89		

Major Purchases and Investments Attributable to Recreational Fishing

	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Lake Superior	St. Lawrence River	Amount Spent in Great Lakes	Amount Spent in Ontario	Percent in Great Lakes
Fish equipment	39,918	233,356	80,090	197,160	127,111	-	677,635	775,147	87.4
Boating equipment	62,272	84,967	1,413,032	3,038,934	102,161	24,004	4,725,370	4,770,315	99.1
Camping equipment	3,345	2,065	-	9,478	556	-	15,443	31,866	48.5
Vehicles	-	-	-	85,161	-	-	85,161	85,161	100.0
Land-Buildings	-	747,778	20,057	8,584,369	327,146	-	9,679,351	9,801,335	98.8
Other investments	54,186	10,569	4,013	209,690	59,942	-	338,400	357,058	94.8
Total investments	159,721	1,078,734	1,517,192	12,124,792	616,917	24,004	15,521,360	15,820,883	98.1
average per angler	27.29	34.73	76.36	210.26	59.40	3.99	124.66		

FIGURE 12

MAJOR PURCHASES ALLOCATED TO GREAT LAKES FISHING ACTIVITIES BY NONRESIDENT NON-CANADIAN ANGLERS

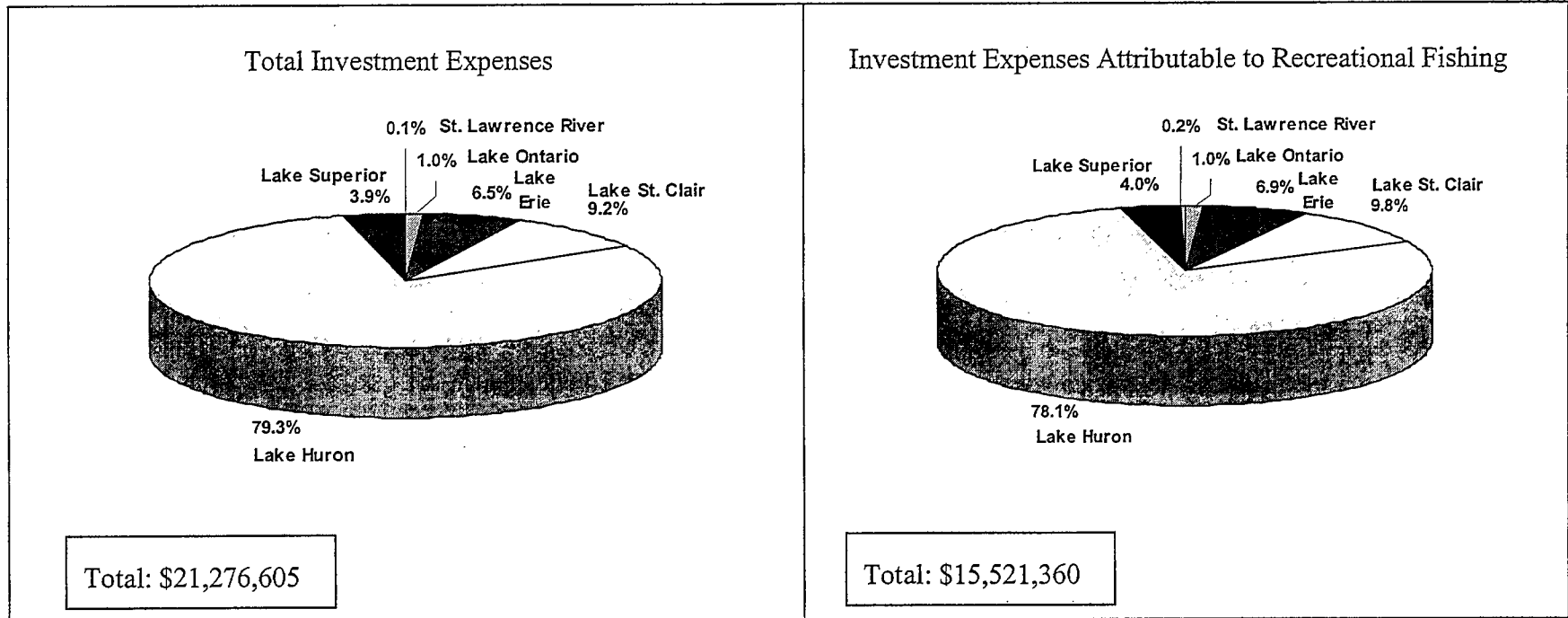


TABLE 13
Major Purchases and Investments Allocated to the Great Lakes Fishery
All Anglers Who Fished on the Great Lakes

Major Purchases and Investments

	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Lake Superior	St. Lawrence River	Amount Spent in Great Lakes	Amount Spent in Ontario	Percent in Great Lakes
Fish equipment	6,418,516	2,805,611	956,409	8,356,223	668,200	815,490	20,020,449	33,166,728	60.4
Boating equipment	52,677,250	24,738,008	5,173,930	61,920,021	5,325,615	4,373,652	154,208,476	209,624,707	73.6
Camping equipment	4,738,754	6,263,285	368,469	9,398,317	13,795,024	213,425	34,777,274	48,970,422	71.0
Vehicles	16,283,433	11,564,616	233,548	90,432,523	4,963,079	10,733,842	134,211,041	238,192,306	56.3
Land-Buildings	4,284,405	2,514,015	189,703	29,306,624	517,851	1,150,964	37,963,562	57,447,044	66.1
Other investments	2,303,350	444,394	381,762	4,488,048	784,079	343,572	8,745,206	15,705,216	55.7
Total investments	86,705,707	48,329,930	7,303,821	203,901,756	26,053,849	17,630,947	389,926,009	603,106,423	64.7
average per angler	780.68	483.88	182.79	931.88	953.24	696.88	831.17		

Major Purchases and Investments Attributable to Recreational Fishing

	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Lake Superior	St. Lawrence River	Amount Spent in Great Lakes	Amount Spent in Ontario	Percent in Great Lakes
Fish equipment	6,418,516	2,805,611	956,409	8,356,223	668,200	815,490	20,020,449	33,166,728	60.4
Boating equipment	34,112,350	19,084,237	4,442,957	36,128,528	5,280,450	3,374,062	102,422,584	145,509,838	70.4
Camping equipment	2,473,200	3,061,438	137,670	6,373,669	9,632,572	75,041	21,753,590	30,850,988	70.5
Vehicles	2,685,619	3,821,607	114,368	18,398,721	2,496,044	2,438,255	29,954,614	54,694,679	54.8
Land-Buildings	2,193,505	1,512,445	159,646	15,285,882	343,801	675,515	20,170,794	29,436,367	68.5
Other investments	1,921,970	388,163	345,667	3,570,297	685,435	185,238	7,096,770	12,594,511	56.3
Total investments	49,805,160	30,673,500	6,156,717	88,113,321	19,106,503	7,563,601	201,418,801	306,253,111	65.8
average per angler	448.43	307.11	154.08	402.70	699.05	298.96	429.35		

FIGURE 13

MAJOR PURCHASES ALLOCATED TO GREAT LAKES FISHING ACTIVITIES BY ALL ANGLERS

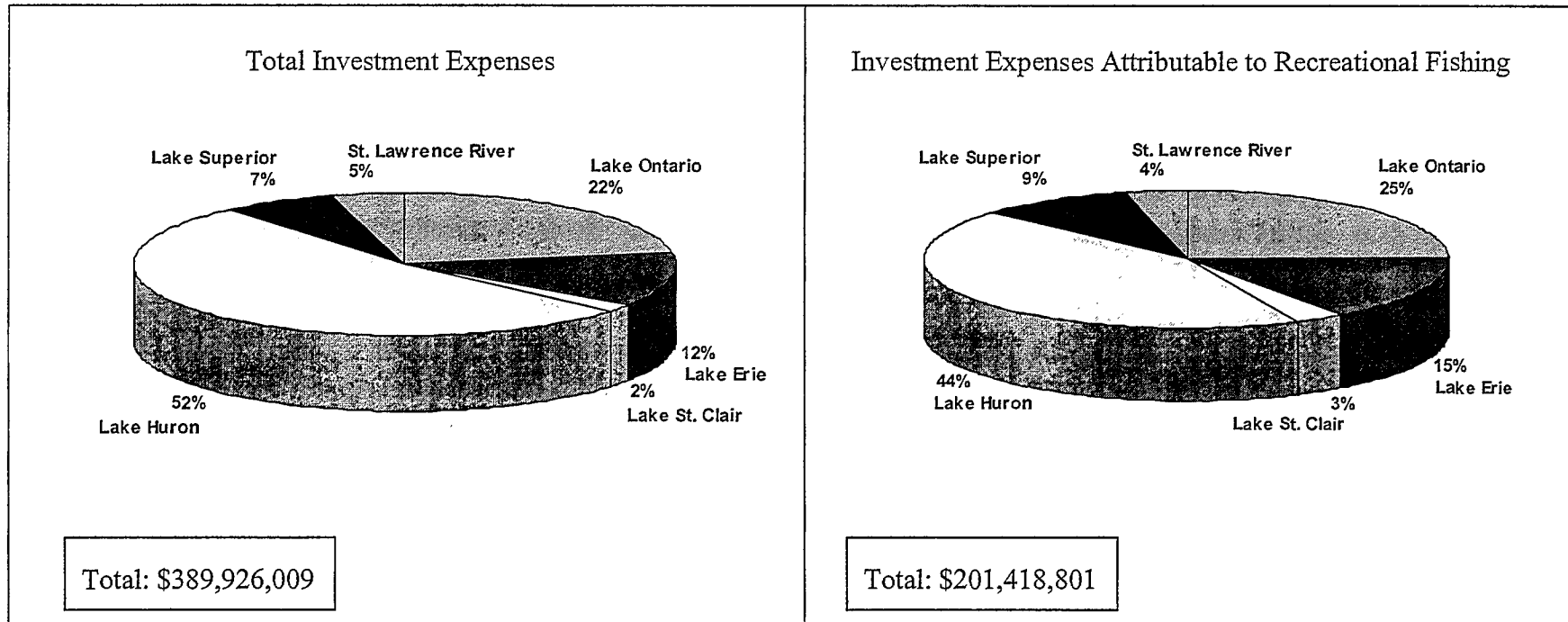


TABLE 14
Direct Expenditures Allocated for Fishing in the Great Lakes Fishery
Resident Anglers Who Fished on the Great Lakes

	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Lake Superior	St. Lawrence River	Amount Spent in Great Lakes	Amount Spent in Ontario	Percent in Great Lakes
Packages	880,978	1,193,700	243,795	3,384,408	240,374	609,002	6,552,257	11,407,692	57.4
Accommodation	1,870,578	1,673,536	610,268	5,801,806	364,652	362,245	10,683,084	19,229,391	55.6
Campsite fees	1,622,681	2,224,850	231,906	3,289,701	606,058	84,730	8,059,926	12,825,023	62.8
Food	7,073,182	4,813,715	1,174,775	13,862,972	1,147,399	787,538	28,859,581	46,742,178	61.7
Travel	7,819,387	4,659,782	1,429,016	15,334,890	1,780,448	675,783	31,699,307	53,900,419	58.8
Household boat costs	5,393,882	5,828,131	1,933,552	15,120,251	738,555	1,242,104	30,256,475	41,101,650	73.6
Boat rentals	951,430	1,009,909	123,918	1,179,739	43,773	171,326	3,480,094	7,521,332	46.3
Supplies	3,923,177	1,917,623	948,186	7,537,433	534,521	673,881	15,534,821	25,073,252	62.0
Guides	190,319	111,746	65,022	33,714	-	195,363	596,163	738,006	80.8
Licence fees	1,103,276	918,494	303,339	2,354,861	268,273	205,157	5,153,401	7,361,564	70.0
Access fees	235,902	101,405	35,803	244,642	9,427	59,683	686,862	1,293,840	53.1
Other expenses	99,604	1,327	-	30,900	-	1,030	132,861	386,063	34.4
Direct expenses	31,164,394	24,454,220	7,099,578	68,175,317	5,733,481	5,067,841	141,694,831	227,580,411	62.3
average per angler	309.67	356.52	358.91	426.47	347.91	294.93	420.92		
average per angler-day	24.57	45.00	29.20	32.87	41.74	36.09	32.16		

FIGURE 14

DIRECT EXPENDITURES ALLOCATED TO RECREATIONAL FISHING
IN THE GREAT LAKES AREAS BY RESIDENT ANGLERS

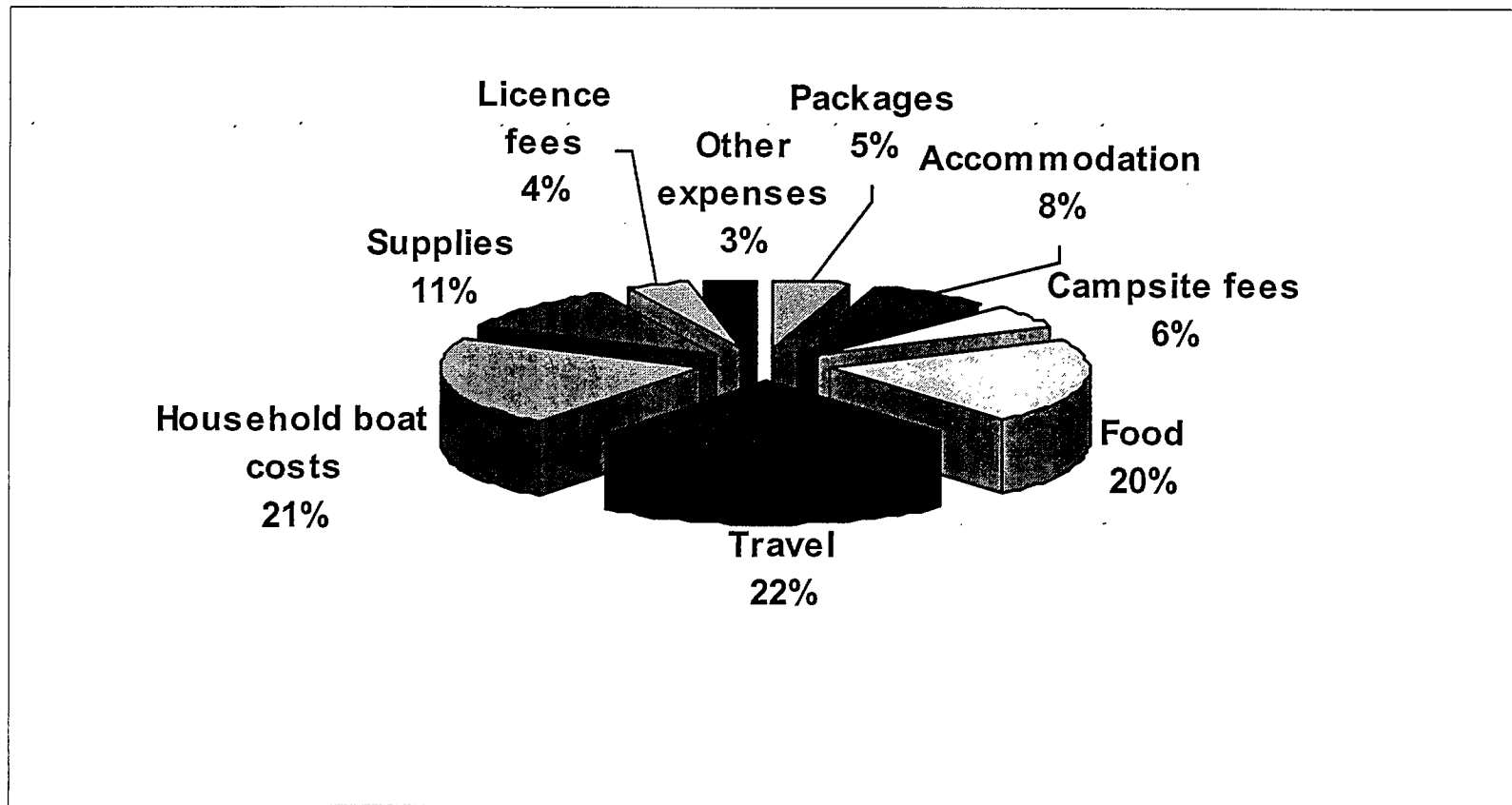


FIGURE 15

AVERAGE AMOUNT SPENT BY RESIDENT ANGLERS
IN THE GREAT LAKES AREAS

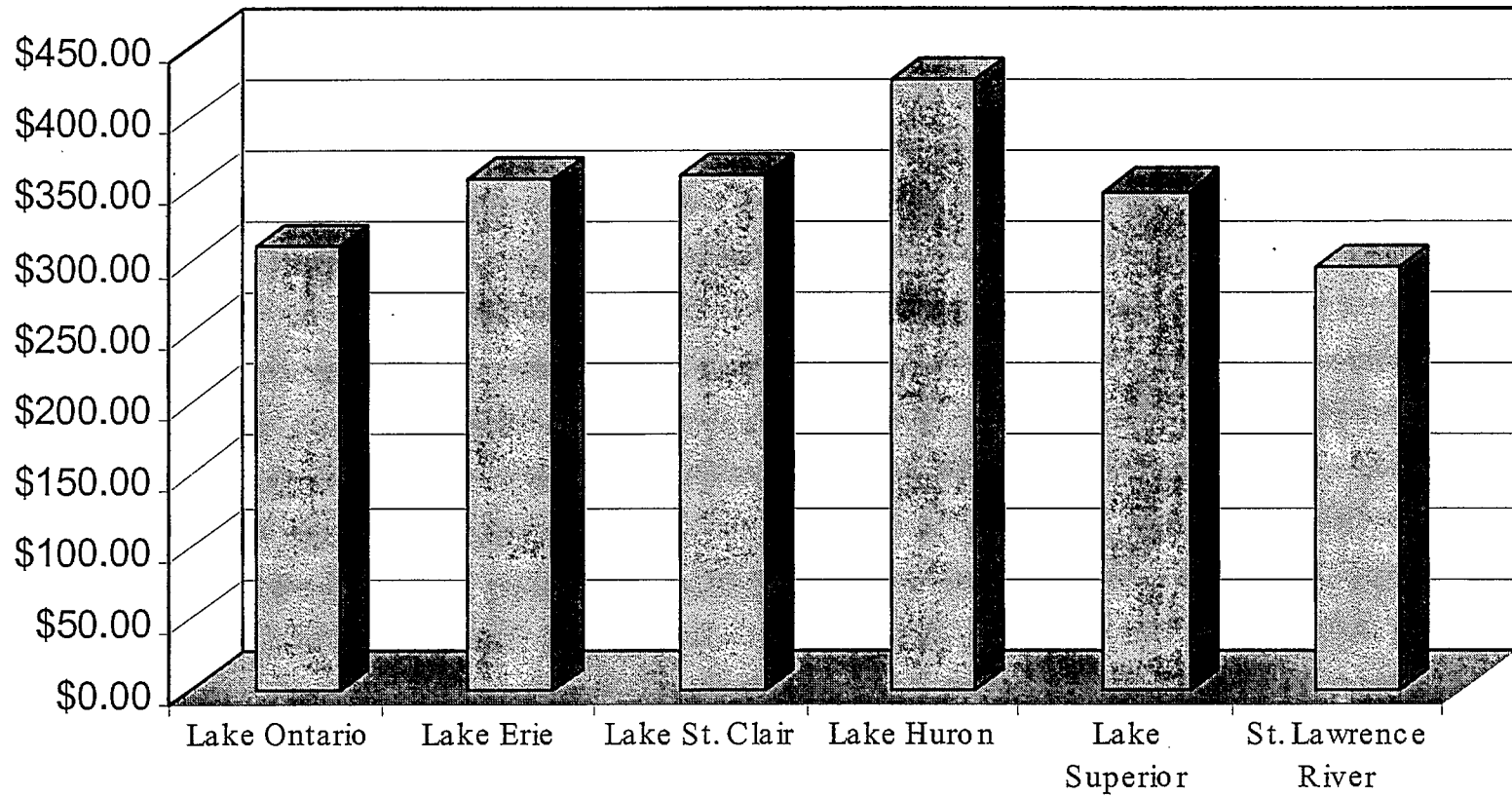


TABLE 15
 Direct Expenditures Allocated for Fishing in the Great Lakes Fishery
 Nonresident Canadian Anglers Who Fished on the Great Lakes

	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Lake Superior	St. Lawrence River	Amount Spent in Great Lakes	Amount Spent in Ontario	Percent in Great Lakes
Packages	169,139	-	-	15,801	-	4,793	189,732	209,444	90.6
Accommodation	280,802	35,751	3,431	82,749	-	52,262	454,995	475,105	95.8
Campsite fees	41,716	-	221	7,661	-	147,261	196,858	262,218	75.1
Food	301,152	17,876	12,743	300,234	7,719	275,361	915,085	1,044,468	87.6
Travel	231,957	22,344	12,743	234,329	3,860	132,398	637,631	729,429	87.4
Household boat costs	52,346	-	3,063	41,904	-	62,174	159,487	196,457	81.2
Boat rentals	234,864	-	-	14,168	-	11,880	260,912	260,912	100.0
Supplies	93,550	11,172	1,078	54,131	1,930	71,202	233,063	256,663	90.8
Guides	40,293	-	-	-	-	-	40,293	40,293	100.0
Licence fees	86,779	1,162	843	23,529	9,644	36,817	158,775	170,040	93.4
Access fees	1,777	-	-	-	-	1,584	3,361	3,361	100.0
Other expenses	-	-	-	-	-	3,055	3,055	3,055	100.0
Direct expenses	1,534,376	88,305	34,122	774,505	23,153	798,787	3,253,248	3,651,446	89.1
average per angler	335.31	395.99	110.43	603.67	49.58	380.19	407.16		
average per angler-day	95.92	56.46	73.67	99.65	14.96	49.44	74.79		

FIGURE 16

DIRECT EXPENDITURES ALLOCATED TO RECREATIONAL FISHING
IN THE GREAT LAKES AREAS BY NONRESIDENT CANADIAN ANGLERS

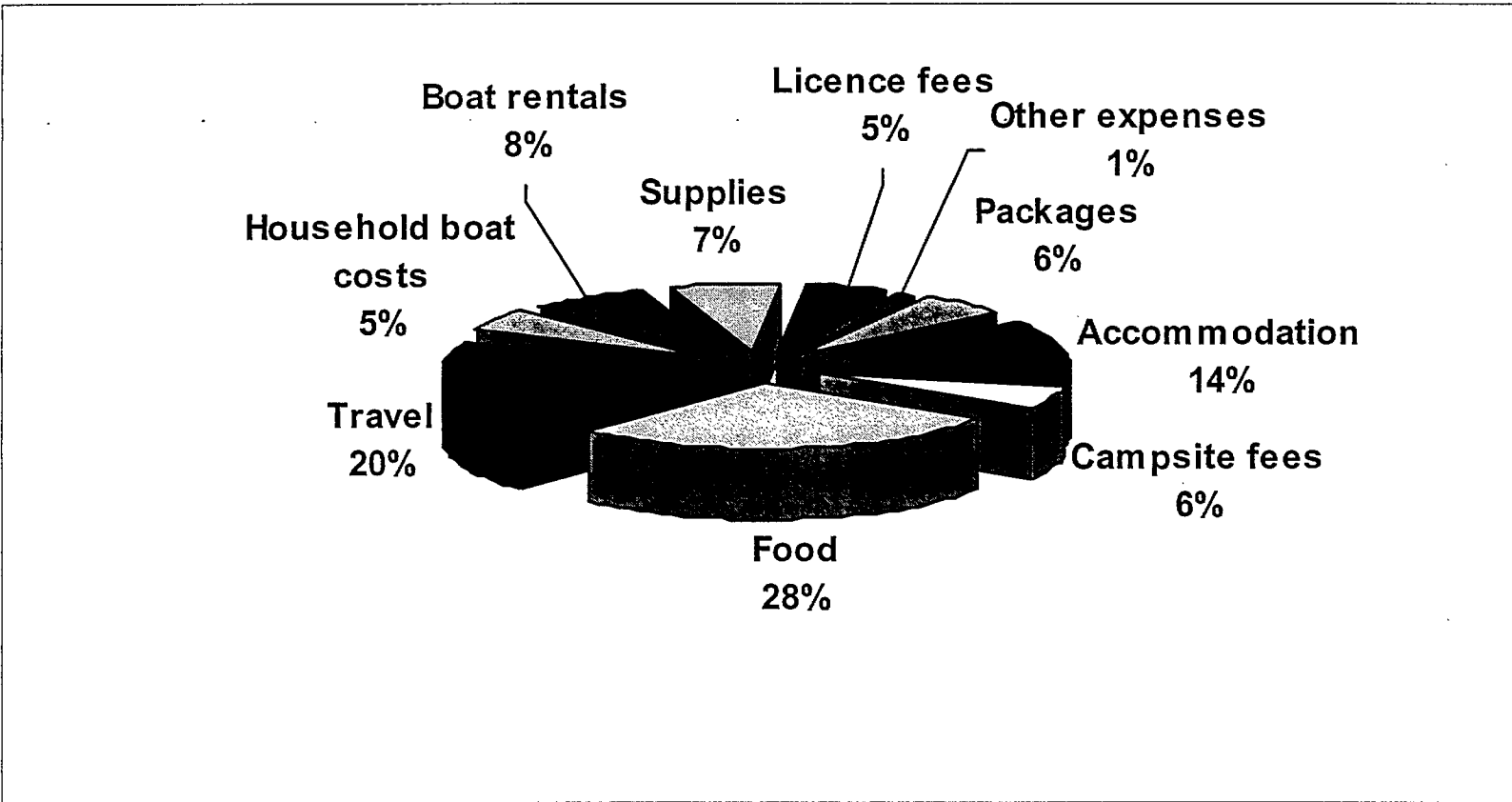


FIGURE 17

AVERAGE AMOUNT SPENT BY NONRESIDENT CANADIAN ANGLERS
IN THE GREAT LAKES AREAS

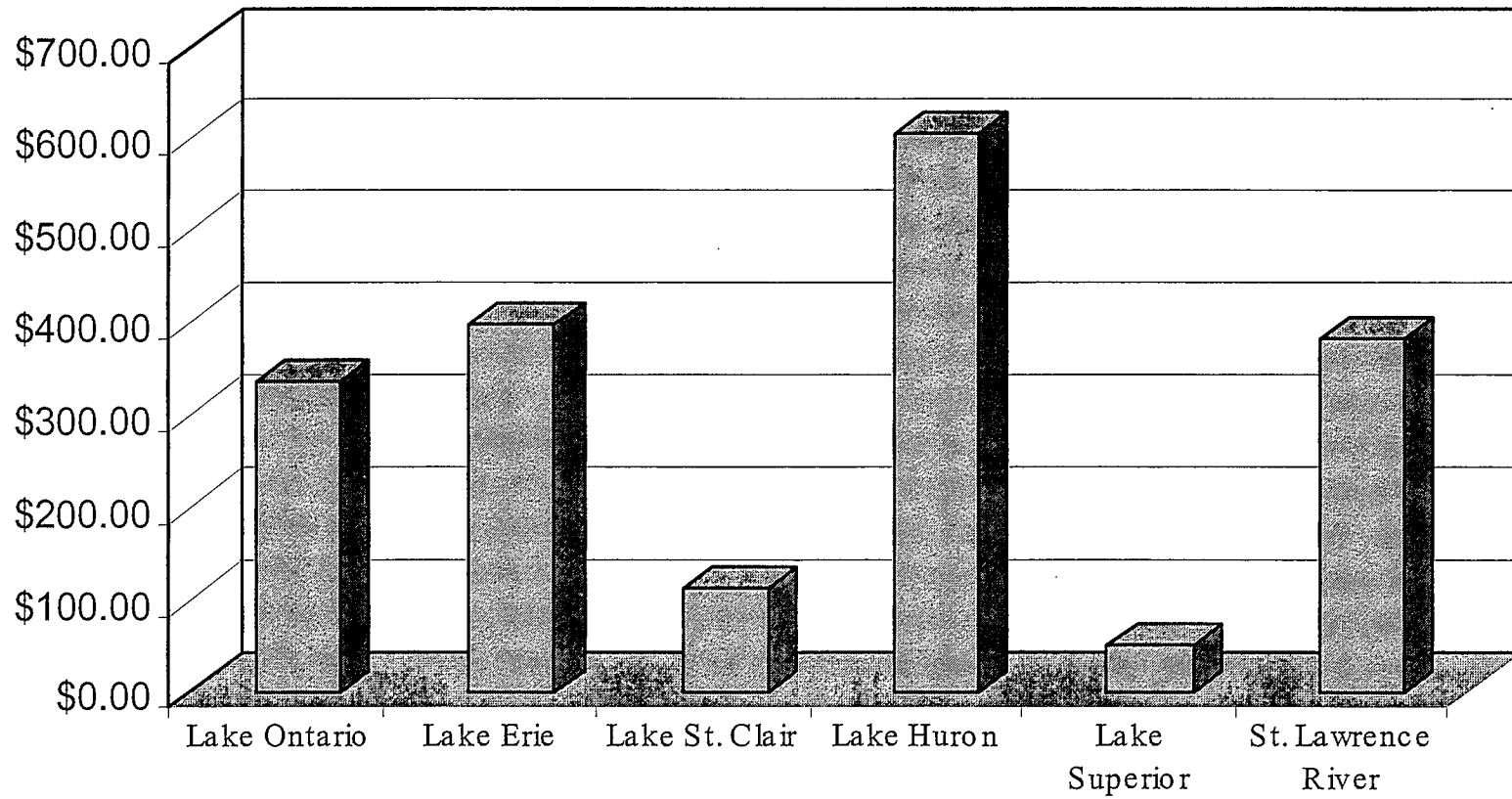


TABLE 16
 Direct Expenditures Allocated for Fishing in the Great Lakes Fishery
 Nonresident Non-Canadian Who Fished on the Great Lakes

	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Lake Superior	St. Lawrence River	Amount Spent in Great Lakes	Amount Spent in Ontario	Percent in Great Lakes
Packages	490,565	1,090,341	447,239	4,180,958	1,070,149	63,041	7,342,295	9,384,298	78.2
Accommodation	861,824	1,737,666	1,566,702	9,417,621	1,038,085	1,229,732	15,851,630	17,365,465	91.3
Campsite fees	36,031	67,256	382,476	1,602,281	255,670	41,145	2,384,859	2,609,737	91.4
Food	707,777	2,528,504	2,371,912	9,567,050	1,185,610	614,521	16,975,373	18,220,505	93.2
Travel	228,653	1,544,840	1,503,653	4,331,603	856,327	284,429	8,749,505	9,626,574	90.9
Household boat costs	117,969	662,484	987,274	2,185,050	491,991	110,967	4,555,733	4,860,741	93.7
Boat rentals	128,320	973,849	73,934	1,015,645	19,395	176,413	2,387,555	2,517,907	94.8
Supplies	160,505	791,879	833,335	1,647,464	332,469	199,571	3,965,224	4,282,150	92.6
Guides	109,283	523,144	367,254	962,873	124,476	172,719	2,259,749	2,500,829	90.4
Licence fees	148,021	872,532	634,704	1,798,416	284,354	178,343	3,916,370	4,191,082	93.4
Access fees	9,474	11,228	39,051	39,762	42,343	5,408	147,265	160,545	91.7
Other expenses	96	36,745	7,593	99,809	7,468	-	151,709	179,619	84.5
Direct expenses	2,998,518	10,840,468	9,215,126	36,848,531	5,708,337	3,076,289	68,687,268	75,899,451	90.5
average per angler	512.30	348.97	463.82	639.00	549.67	511.35	551.68		
average per angler-day	121.21	62.29	53.61	88.67	89.50	97.50	77.91		

FIGURE 18

DIRECT EXPENDITURES ALLOCATED TO RECREATIONAL FISHING
IN THE GREAT LAKES AREAS BY NONRESIDENT NON-CANADIAN ANGLERS

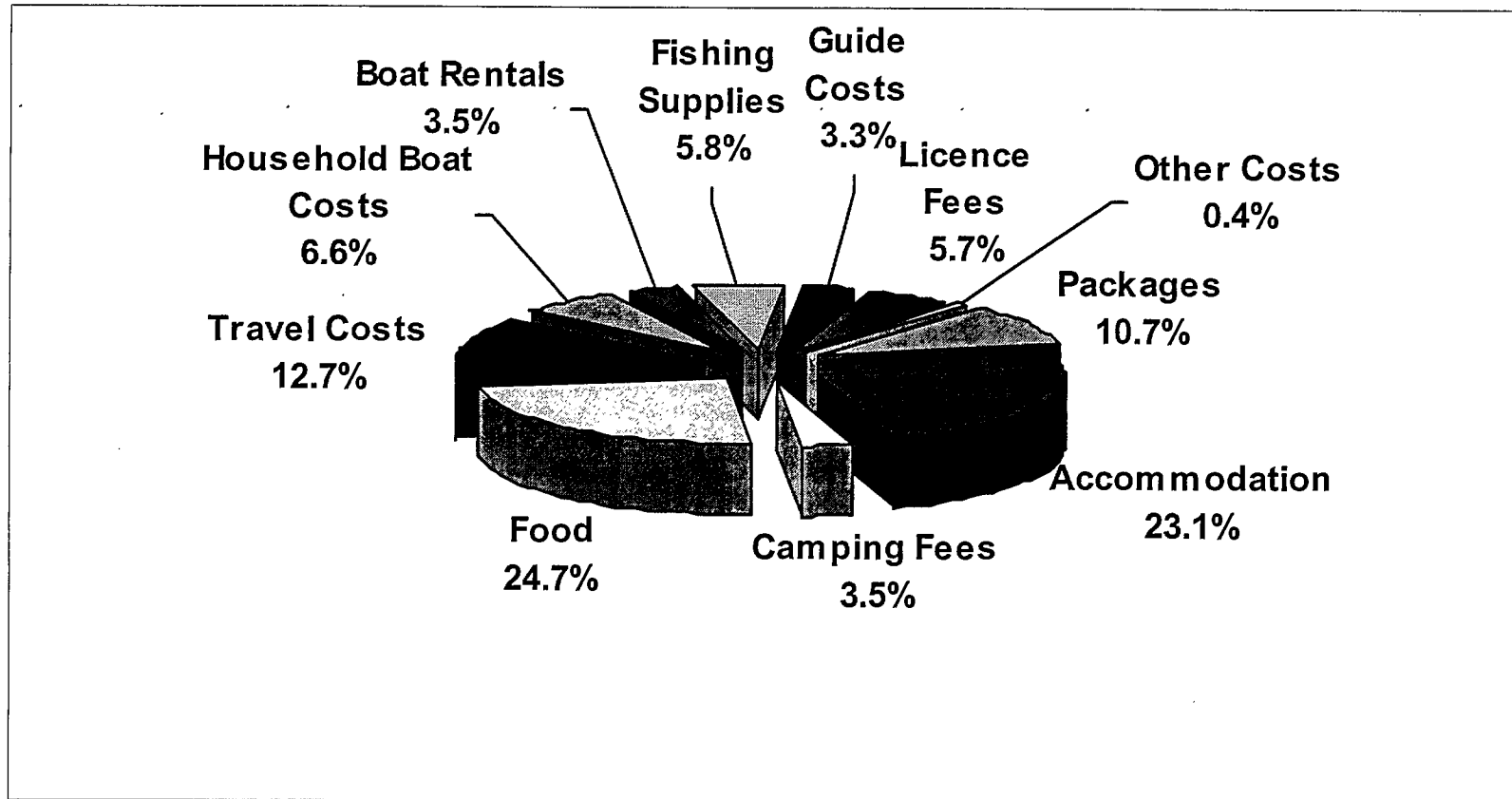


FIGURE 19

AVERAGE AMOUNT SPENT BY NONRESIDENT NON-CANADIAN ANGLERS
IN THE GREAT LAKES AREAS

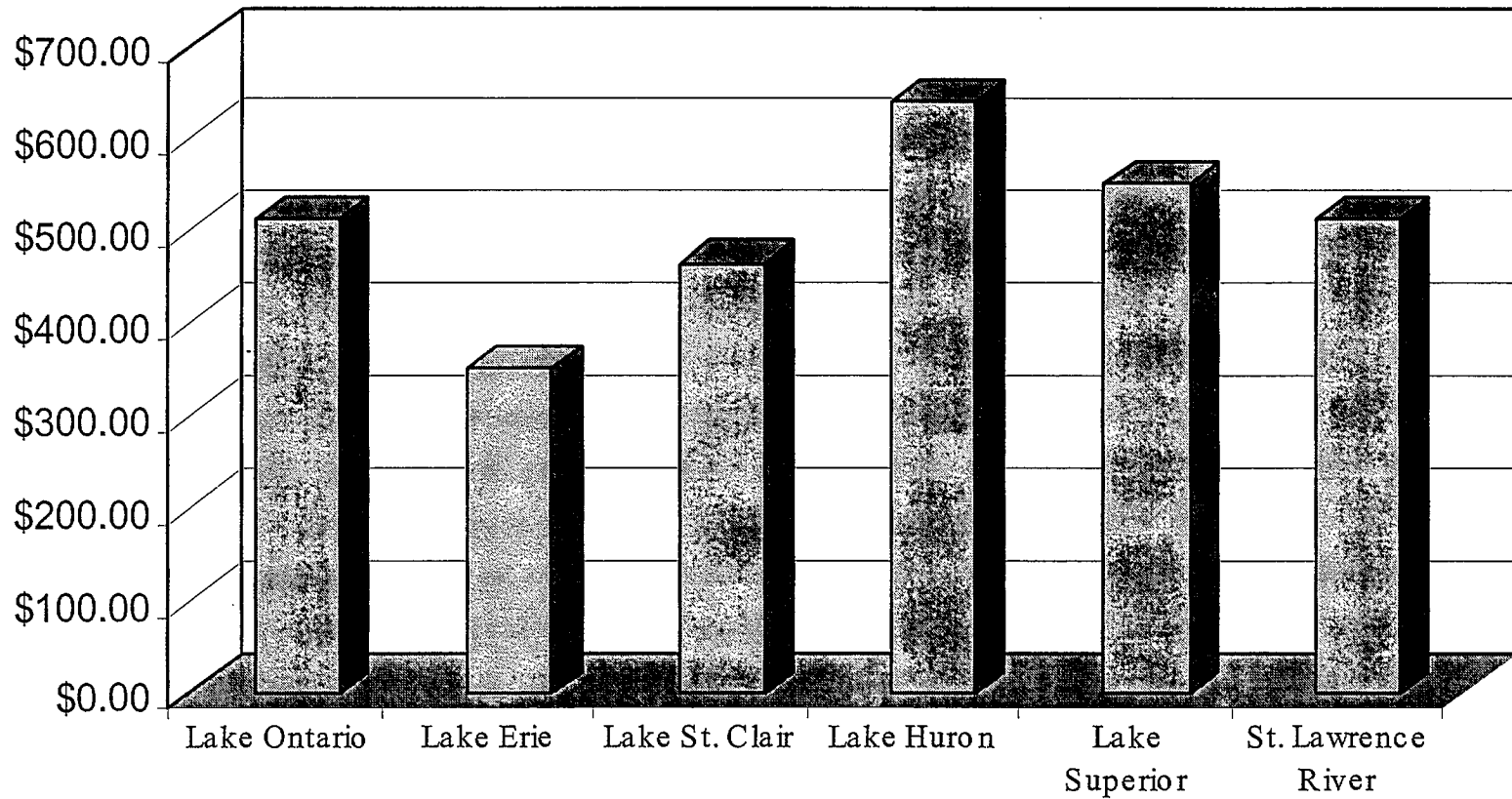


TABLE 17
 Direct Expenditures Allocated for Fishing in the Great Lakes Fishery
 All Anglers Who Fished on the Great Lakes

	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Lake Superior	St. Lawrence River	Amount Spent in Great Lakes	Amount Spent in Ontario	Percent in Great Lakes
Packages	1,540,682	2,284,042	691,034	7,581,168	1,310,523	676,836	14,084,284	21,001,435	67.1
Accommodation	3,013,204	3,446,953	2,180,400	15,302,176	1,402,736	1,644,239	26,989,709	37,069,962	72.8
Campsite fees	1,700,428	2,292,107	614,603	4,899,643	861,728	273,135	10,641,643	15,696,978	67.8
Food	8,082,111	7,360,095	3,559,430	23,730,255	2,340,729	1,677,420	46,750,039	66,007,151	70.8
Travel	8,279,998	6,226,967	2,945,412	19,900,822	2,640,635	1,092,609	41,086,442	64,256,421	63.9
Household boat costs	5,564,197	6,490,615	2,923,889	17,347,204	1,230,546	1,415,246	34,971,696	46,158,848	75.8
Boat rentals	1,314,614	1,983,758	197,852	2,209,551	63,168	359,619	6,128,561	10,300,151	59.5
Supplies	4,177,232	2,720,675	1,782,600	9,239,027	868,920	944,654	19,733,108	29,612,065	66.6
Guides	339,895	634,890	432,276	996,587	124,476	368,082	2,896,205	3,279,128	88.3
Licence fees	1,338,076	1,792,189	938,886	4,176,806	562,272	420,317	9,228,546	11,722,686	78.7
Access fees	247,154	112,633	74,853	284,404	51,770	66,675	837,489	1,457,746	57.5
Other expenses	99,699	38,072	7,593	130,709	7,468	4,085	287,626	568,737	50.6
Direct expenses	35,697,289	35,382,993	16,348,826	105,798,353	11,464,970	8,942,916	213,635,347	307,131,307	69.6
average per angler	321.41	354.26	409.15	483.52	419.47	353.47	455.39		
average per angler-day	27.27	49.21	39.35	42.37	56.56	47.54	40.07		

FIGURE 20

DIRECT EXPENDITURES ALLOCATED TO RECREATIONAL FISHING
IN THE GREAT LAKES AREAS BY ALL ANGLERS

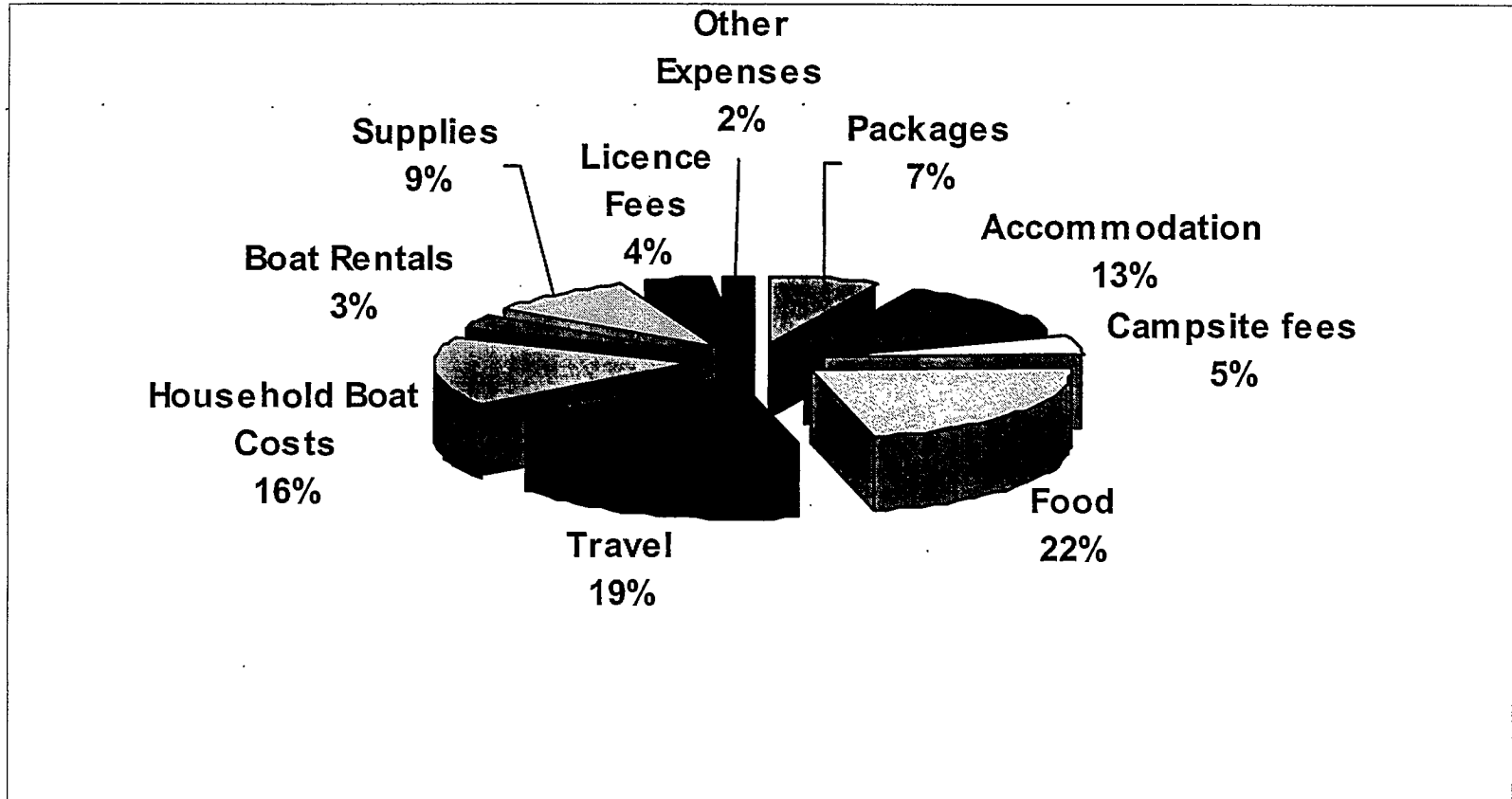
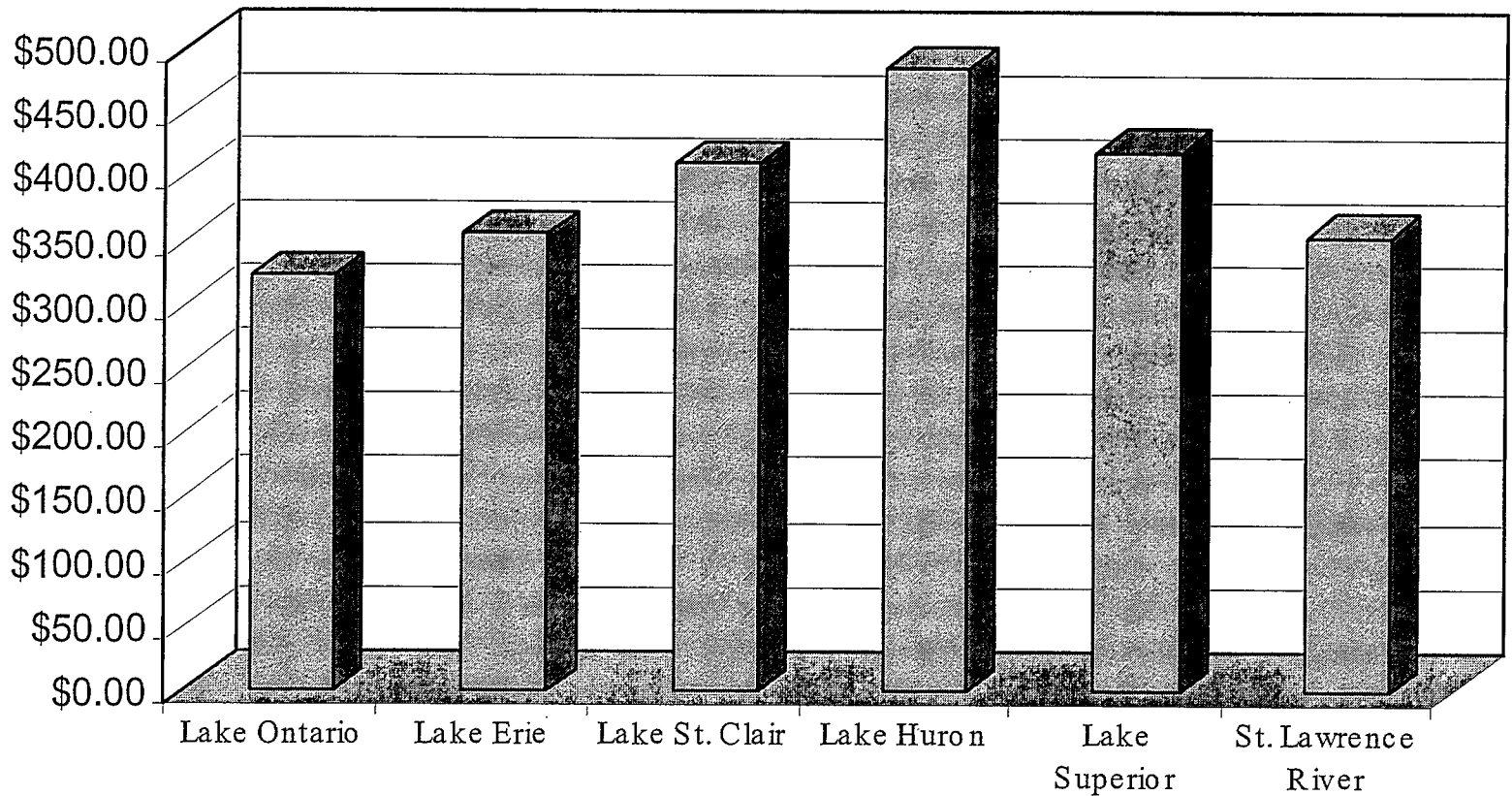


FIGURE 21

AVERAGE AMOUNT SPENT BY ALL ANGLERS
IN THE GREAT LAKES AREAS

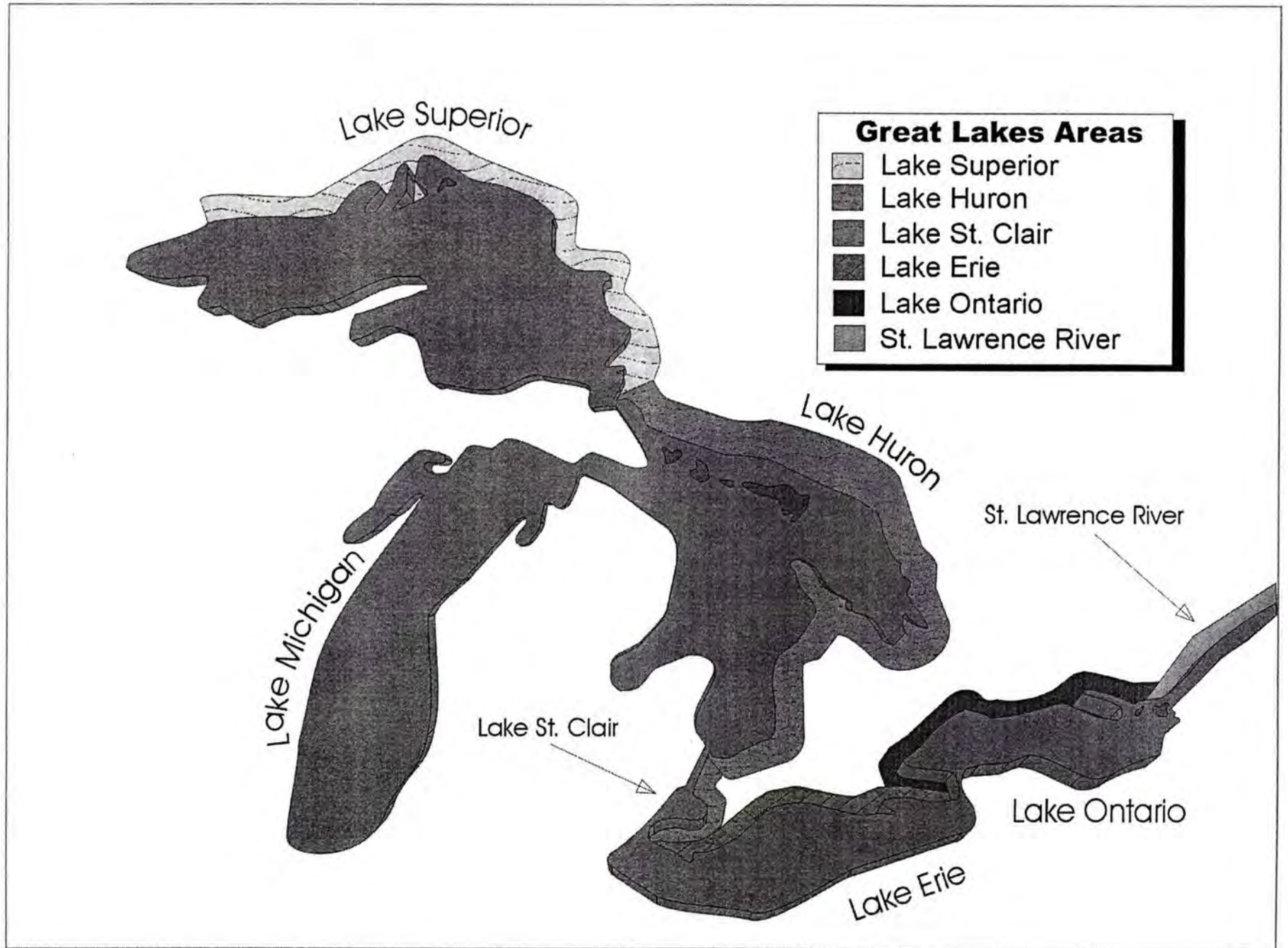




Appendix 1

GREAT LAKES AREAS MAP







Appendix 2

DEFINITIONS



Definitions

Great Lakes Angler	an angler who fished at least one day on any of the Ontario waters of the Great Lakes/St. Lawrence River or to an inland distance of 20 kms on any rivers and streams terminating in the Great Lakes
Origin	resident is an angler who resided in the province of Ontario and a nonresident is an angler who visited Ontario: a Canadian (from another province/territory) or a non-Canadian
Day Fished	a "day of fishing" is defined as all or part of any day on which recreational fishing activity occurred
Total Investment Expenses	these are investment expenditures for durable goods (boats, motors, campers, fishing equipment, special vehicle, etc.), which have been allocated to the Great Lakes based on the time the angler spent on the Great Lakes in 2000 as a percent of all days fished in the province
Attributable Investments	the amount of the investment expenditures for durable goods which the angler identified as being wholly attributable to recreational fishing activity (as a percentage of the total) and which have been allocated to the Great Lakes based on the time the angler spent on the Great Lakes in 2000 as a percent of all days fished in the province
Direct Expenditures	these are expenditures for goods and services (food, camping, accommodation, transportation, supplies, etc.) incurred while on fishing trips or excursions which have been allocated to the Great Lakes on the prorated basis described above
Equipment/Supplies	there is a distinction between these two categories insofar as fishing equipment is defined to be expenditures on such durable goods as fishing rods, reels, depth finders, etc. and fishing supplies are items purchased in the course of fishing activity such as bait, lures, line, etc.



Appendix 3

**ESTIMATES OF STATISTICAL RELIABILITY
FOR KEY VARIABLES**



**Estimates of Statistical Reliability of Selected Variables
Expressed as Coefficients of Variation ¹
All Great Lakes Anglers, 2000**

Characteristics	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Lake Superior	St. Lawrence River	Great Lakes
Sample size	389	429	229	842	126	108	1,912
Days fished	10.5%	5.9%	8.2%	5.4%	9.4%	13.1%	3.5%
Total fish caught	20.7%	11.9%	10.5%	7.2%	18.4%	23.6%	5.8%
Total fish kept	14.0%	12.8%	13.8%	9.9%	39.6%	30.6%	6.4%
Direct expenses	7.1%	6.8%	8.9%	4.5%	15.4%	11.6%	3.0%
Total investments	26.1%	24.8%	30.0%	15.1%	32.2%	36.4%	10.7%
Total attributable investments	26.5%	34.1%	28.9%	16.8%	37.8%	36.1%	11.7%

¹ The coefficient of variation of the mean is used as a crude measure of reliability because it is not possible to calculate exact variability in the data. It is calculated as the standard error of the mean divided by the mean multiplied by 100. The table below can be used as a guide to the use of estimates based on the coefficient of variation.

CV less than 16.5%:

- estimates can be used without condition.

CV greater than 16.5% and less than 33.5%:

- estimates should be used with caution.

CV greater than 33.5%:

- estimates should be used with extreme caution.



Appendix 4

**RESIDENT AND NONRESIDENT
QUESTIONNAIRES**



2000 SURVEY OF RECREATIONAL FISHING IN CANADA

RESIDENTS OF ONTARIO

(Le présent questionnaire est également disponible en français)
(QUESTIONS? → 1 (800) 298-9935 TOLL FREE)

NOTE TO THE RESPONDENT

In order to complete this document as easily as possible, the following instructions may be of assistance:

- ▶ the questions are to be answered only by the person to whom the questionnaire was addressed.
- ▶ this survey covers only fishing activity between January 1 and December 31, 2000.
- ▶ the term "household members" refers only to individuals living in your residence.

THANK YOU IN ADVANCE FOR YOUR COOPERATION AND ASSISTANCE.

CONFIDENTIAL WHEN COMPLETED

YOUR PERSONAL RECREATIONAL FISHING ACTIVITIES

1a) Did you personally fish for recreation in Ontario in 2000?

Yes ₁ → please continue No ₂ → go to question 15

b) How many days in total did you spend fishing for recreation in Ontario in 2000?
(A "day" is all or any part of a day fished)

_____ days fished

2a) Of the above days, how many were spent fishing through the ice in Ontario in 2000?

None → go to question 3 or _____ days fished

b) Do you own an ice-hut? Yes ₁ No ₂

c) Did you rent an ice-hut in 2000? Yes ₁ No ₂

d) Do you only fish through the ice when you can use an ice-hut? Yes ₁ No ₂

3. Excluding any time spent ice-fishing, what percentage of time did you spend fishing:

from shore or from a dock _____ % from a boat or a canoe _____ %

4. For each waterbody on which you fished in Ontario in 2000, please provide the name of the lake, river or stream, the nearest town or village, the number of days fished on open water as well as through the ice and the number of fish you caught and kept. If you fished in a provincial park, please name the park instead of the nearest town/village. Even if you did not catch any fish, the information on where you fished and how often is important. If you fished more than six water bodies, please record your information on separate pages and attach them.

Please include only your personal fishing activities from January to December 2000.

SITE 1		Name of lake, river or stream _____				Number of days fished _____		
Nearest town/village/park _____						Days fished through ice _____		
	Number of fish <u>Caught</u> <u>Kept</u>			Number of fish <u>Caught</u> <u>Kept</u>			Number of fish <u>Caught</u> <u>Kept</u>	
Walleye (pickerel)	_____	_____	Rainbow trout	_____	_____	Lake sturgeon	_____	_____
Northern pike	_____	_____	Brown trout	_____	_____	Catfish	_____	_____
Perch	_____	_____	Lake trout	_____	_____	Crappie	_____	_____
Muskellunge	_____	_____	Brook trout	_____	_____	Rock bass	_____	_____
Whitefish	_____	_____	Splake	_____	_____	Sunfish	_____	_____
Smallmouth bass	_____	_____	Chinook salmon	_____	_____	Smelt	_____	_____
Largemouth bass	_____	_____	Coho salmon	_____	_____	Other _____	_____	_____

SITE 2		Name of lake, river or stream _____				Number of days fished _____		
Nearest town/village/park _____						Days fished through ice _____		
	Number of fish <u>Caught</u> <u>Kept</u>			Number of fish <u>Caught</u> <u>Kept</u>			Number of fish <u>Caught</u> <u>Kept</u>	
Walleye (pickerel)	_____	_____	Rainbow trout	_____	_____	Lake sturgeon	_____	_____
Northern pike	_____	_____	Brown trout	_____	_____	Catfish	_____	_____
Perch	_____	_____	Lake trout	_____	_____	Crappie	_____	_____
Muskellunge	_____	_____	Brook trout	_____	_____	Rock bass	_____	_____
Whitefish	_____	_____	Splake	_____	_____	Sunfish	_____	_____
Smallmouth bass	_____	_____	Chinook salmon	_____	_____	Smelt	_____	_____
Largemouth bass	_____	_____	Coho salmon	_____	_____	Other _____	_____	_____

SITE 3		Name of lake, river or stream _____				Number of days fished _____		
Nearest town/village/park _____						Days fished through ice _____		
	Number of fish <u>Caught</u> <u>Kept</u>			Number of fish <u>Caught</u> <u>Kept</u>			Number of fish <u>Caught</u> <u>Kept</u>	
Walleye (pickerel)	_____	_____	Rainbow trout	_____	_____	Lake sturgeon	_____	_____
Northern pike	_____	_____	Brown trout	_____	_____	Catfish	_____	_____
Perch	_____	_____	Lake trout	_____	_____	Crappie	_____	_____
Muskellunge	_____	_____	Brook trout	_____	_____	Rock bass	_____	_____
Whitefish	_____	_____	Splake	_____	_____	Sunfish	_____	_____
Smallmouth bass	_____	_____	Chinook salmon	_____	_____	Smelt	_____	_____
Largemouth bass	_____	_____	Coho salmon	_____	_____	Other _____	_____	_____

4. continued

SITE 4	Name of lake, river or stream _____	Number of days fished _____
Nearest town/village/park _____		Days fished through ice _____
	Number of fish <u>Caught</u> <u>Kept</u>	Number of fish <u>Caught</u> <u>Kept</u>
Walleye (pickerel)	_____	_____
Northern pike	_____	_____
Perch	_____	_____
Muskellunge	_____	_____
Whitefish	_____	_____
Smallmouth bass	_____	_____
Largemouth bass	_____	_____
	Rainbow trout	Lake sturgeon
	Brown trout	Catfish
	Lake trout	Crappie
	Brook trout	Rock bass
	Splake	Sunfish
	Chinook salmon	Smelt
	Coho salmon	Other _____

SITE 5	Name of lake, river or stream _____	Number of days fished _____
Nearest town/village/park _____		Days fished through ice _____
	Number of fish <u>Caught</u> <u>Kept</u>	Number of fish <u>Caught</u> <u>Kept</u>
Walleye (pickerel)	_____	_____
Northern pike	_____	_____
Perch	_____	_____
Muskellunge	_____	_____
Whitefish	_____	_____
Smallmouth bass	_____	_____
Largemouth bass	_____	_____
	Rainbow trout	Lake sturgeon
	Brown trout	Catfish
	Lake trout	Crappie
	Brook trout	Rock bass
	Splake	Sunfish
	Chinook salmon	Smelt
	Coho salmon	Other _____

SITE 6	Name of lake, river or stream _____	Number of days fished _____
Nearest town/village/park _____		Days fished through ice _____
	Number of fish <u>Caught</u> <u>Kept</u>	Number of fish <u>Caught</u> <u>Kept</u>
Walleye (pickerel)	_____	_____
Northern pike	_____	_____
Perch	_____	_____
Muskellunge	_____	_____
Whitefish	_____	_____
Smallmouth bass	_____	_____
Largemouth bass	_____	_____
	Rainbow trout	Lake sturgeon
	Brown trout	Catfish
	Lake trout	Crappie
	Brook trout	Rock bass
	Splake	Sunfish
	Chinook salmon	Smelt
	Coho salmon	Other _____

5. What do you estimate was the total weight of the fish you kept in Ontario in 2000 and what percentage of it was eaten by you or members of your household?

_____ pounds or _____ kilograms percentage eaten _____ %

6a) Did you release any fish you caught in Ontario in 2000?

Yes ₁ → please continue No ₂ → go to question 7

b) If yes, was it because it was: mandatory ₁ voluntary ₂ both ₃

7. On average, how many hours per day did you fish for recreation in Ontario in 2000? _____ hours per day

8. Overall, how would you rate your recreational fishing experience in Ontario in 2000?

Excellent ₁ Very Good ₂ Good ₃ Fair ₄ Poor ₅

9. Please list the top three species you fished for, in the order of angling preference (see list in Question 4):

Most preferred species	Second preferred species	Third preferred species
_____	_____	_____

10. How often did you use the following sources of information when selecting the places you fished in Ontario in 2000?

Please rate each information source on a scale of 1 (did not use), 2 (sometimes), 3 (often).

Information Source	Rating	Information Source	Rating
None <input type="radio"/> go to question 11		Friends / Family / other anglers	_____
Internet / web sites	_____	Television / radio announcements	_____
Magazines / newspapers	_____	Television fishing shows	_____
Bait and tackle shops	_____	Licence issuer	_____
Outdoor / sportsman shows	_____	Natural Resources office / field staff	_____
Travel agent / tourist operator	_____	Annual regulation summary	_____
Clubs / associations	_____	Other _____	_____

11a) Did you participate in the Ontario Family Fishing Weekend (July 7 - 9, 2000)?

Yes ₁ → go to question 12 No ₂ → please continue

b) If no, were you aware of this event? Yes ₁ No ₂

12a) Prior to 2000, did you participate in the Ontario Family Fishing Weekend at least once?

Yes ₁ No ₂

b) If you participated at least once in the Ontario Family Fishing Weekend, was your participation a factor in the purchase of an Ontario fishing licence for any member of your household?

Yes ₁ No ₂ Never participated ₃

13a) Did you take a kid (youth under 18) fishing in Ontario in 2000?

Yes ₁ → please continue No ₂ → go to question 14

b) If yes, did you participate in either of the following:

i) "Take a Kid Fishing Week" (August 2000)? Yes ₁ No ₂

ii) The Ontario Federation of Anglers and Hunters' "Tackle Share Program", which makes tackle available for kids? Yes ₁ No ₂

14. Did you fish in a competitive fishing event in Ontario in 2000? Yes ₁ No ₂

15. How many years have you fished for recreation in Ontario? _____ years

16. As an angler, do you consider yourself to be:
an expert ₁ experienced ₂ average ₃ a beginner ₄

17. Were you a member of an organized angling group or association in 2000? Yes ₁ No ₂

18. How much personal time did you give to volunteer work in support of Ontario's recreational fishery in 2000 (e.g., habitat clean-up, fish passage construction)? A day is all or any part of a day worked.

Please enter 0 (zero), if you **did not** do volunteer work in recreational fisheries.

Number of days of volunteer work _____

Please list the names of the organizations that you assisted in support of Ontario's recreational fishery in 2000. (e.g., Ontario Federation of Anglers and Hunters, local fish and game club, etc.)

19a) Many areas of the province do not have a limit on the number of panfish (i.e. perch, rock bass, crappie, catfish, sunfish) that can be harvested. Do you feel that a harvest limit should be established?

Yes ₁ → please continue No ₂ → go to question 20

b) If yes, which of the following species should have a limit?

Yellow perch Yes ₁ No ₂ Catfish Yes ₁ No ₂

Rock bass Yes ₁ No ₂ Sunfish Yes ₁ No ₂

Crappie Yes ₁ No ₂ Other panfish Yes ₁ No ₂

20. Did you purchase an Ontario hunting licence in 2000?

Yes ₁ No ₂

21a) Did you have access to a computer with Internet capabilities in 2000?

Yes ₁ No ₂

b) Would you consider purchasing fishing licences via the Internet, if you had this option?

Yes ₁ No ₂

EXPENDITURES ON RECREATIONAL FISHING IN 2000

22a) Did you or any member of your household make any major purchases or investments in Ontario in 2000 related in whole or in part to recreational fishing? (e.g., fishing rods, boats, motors, 4x4's, snowmobiles, cabins, camping gear, trailers, ice fishing gear, etc.)

Please Note: Purchases of fishing supplies (lures, line, tackle, etc.) are covered in question 24.

Yes → please continue

No → go to question 23

b) For each investment category, please indicate the amount of money spent in Ontario in 2000 by you and members of your household and please estimate the percentage of the total amount you consider was directly attributable to recreational fishing activities during the year.

Investment Category	Total Amount Spent on Purchases in Ontario	% of Total Attributable to Recreational Fishing
Fishing Equipment (rods, reels, fish finders, etc.)	\$ _____ .00	100%
Boating Equipment (boats, motors, trailers, etc.)	\$ _____ .00	_____ %
Camping Equipment (tents, camper trailers, etc.)	\$ _____ .00	_____ %
Special Vehicles (4x4's, ATV's, camper trucks, snowmobiles, etc.)	\$ _____ .00	_____ %
Land-Buildings (cabins, cottages, land, etc.)	\$ _____ .00	_____ %
Other (special clothing, waders, ice-huts, etc.)	\$ _____ .00	_____ %

c) Of the above investments, how much was spent solely for ice fishing? \$ _____ .00
(Include ice-huts, ice augers, floater coats and suits, ice fishing rods, etc.)

23. PACKAGES PURCHASED IN 2000

The following question refers only to packages purchased in Ontario from a lodge or outfitter (or their agent) which include a complete range of services such as lodging, food, transportation, etc.

For self-organized trips, please include expenditures in question 24

a) Did you or any member of your household purchase any such packages to fish in Ontario in 2000?

Yes → please continue

No → go to question 24

b) If yes, what was the total cost to you and your household per package, the site number (from question 4), and the mode of transportation used to reach the actual site? Also, please indicate if this package deal was for ice fishing. If the package was purchased by a group, please include only your household's share.

Package	Cost	Site Number (from question 4)	Mode of transportation used to reach actual site	Ice fishing package
# 1	\$ _____ .00			Yes <input type="radio"/> No <input type="radio"/>
# 2	\$ _____ .00			Yes <input type="radio"/> No <input type="radio"/>
# 3	\$ _____ .00			Yes <input type="radio"/> No <input type="radio"/>
# 4	\$ _____ .00			Yes <input type="radio"/> No <input type="radio"/>

24) **EXCLUDING** expenditures on major purchases and package deals, please indicate the amount of money you and other members of your household spent on the following to fish for recreation in Ontario in 2000.

Expenditure Category	Amount
Accommodation (hotels, motels, etc.)	\$ _____ .00
Campsite fees (private, provincial, etc.)	\$ _____ .00
Food (groceries, restaurant meals, alcoholic beverages)	\$ _____ .00
Travel costs within Ontario for recreational fishing - vehicle expenses (including gas, repairs), rentals, air fares, etc.	\$ _____ .00
Household owned boat costs (gas, repairs, launch/ramp fees, moorage, insurance, etc.)	\$ _____ .00
Rentals for fishing (boats, gear, snowmobiles, ice-huts, etc.)	\$ _____ .00
Fishing supplies (bait, line, tackle, etc.)	\$ _____ .00
Guide services	\$ _____ .00
Fishing licence fees (permits, tags, etc.)	\$ _____ .00
Access fees (park fees, etc.)	\$ _____ .00
Other (please specify) _____	\$ _____ .00

b) Of the above expenditures, approximately how much was spent on ice fishing? \$ _____ .00

If you did not personally fish for recreation in Ontario in 2000, please go to question 26

25a) Please consider the number of days you fished and what you paid to fish in Ontario during 2000, the amount of money you spent for similar recreational activities, and your income in 2000. Would you still have fished for recreation in Ontario had your out of pocket costs PER FISHING DAY been higher due to increased costs for gasoline, accommodation, supplies, etc.?

Yes ₁ → please continue No ₂ → go to question 26

b) What is the **maximum additional amount** of money you would pay PER FISHING DAY before it would have been too expensive to fish at all in Ontario in 2000?

Less than \$10.00 per day ₁ (please specify) \$ _____ .00

\$10.00 / day ₂ \$20.00 / day ₃ \$30.00 / day ₄ \$40.00 / day ₅

\$50.00 / day ₆ \$60.00 / day ₇ \$70.00 / day ₈ \$80.00 / day ₉

\$90.00 / day ₁₀ \$100.00 / day ₁₁ More than \$100 / day ₁₂ (specify) \$ _____ .00

RECREATIONAL BOAT OWNERSHIP AND BOATING ACTIVITIES

26a) How many boats are owned by your household? _____ boats or None → go to question 27

b) Please provide the following information for your boats:

Characteristic	BOAT 1	BOAT 2	BOAT 3	BOAT 4
Type of boat (canoe, rowboat, sailboat, inboard, outboard, inboard-outboard, etc.)	_____	_____	_____	_____
Length (in feet)	_____ ft	_____ ft	_____ ft	_____ ft
Horsepower (if applicable)	_____ hp	_____ hp	_____ hp	_____ hp
Days used for <u>all</u> recreational purposes in Ontario in 2000 (including fishing)	_____ days	_____ days	_____ days	_____ days
Days used for recreational fishing in Ontario in 2000	_____ days	_____ days	_____ days	_____ days
Days used for recreational fishing on the Great Lakes and on the St. Lawrence River in 2000	_____ days	_____ days	_____ days	_____ days
Approximately how old is this boat	_____ years	_____ years	_____ years	_____ years

INFORMATION ABOUT YOU AND YOUR HOUSEHOLD

In order for us to analyze the data collected in this survey in a meaningful way, we require some personal information about you and the members of your household. This will allow us to accurately estimate the number of anglers in the province, their use of the resource and the economic benefits generated by recreational fishing in the province of Ontario.

YOUR ANSWERS WILL REMAIN STRICTLY CONFIDENTIAL

27. In what year were you born? 19__

28. Are you: Male Female

29. Which of the following Ontario recreational fishing licences **did you personally hold** in 2000? For 1-day licences, please indicate how many you purchased.

Seasonal licence 1-day licence → number purchased _____

Conservation licence

30. **Excluding yourself**, which of the following Ontario recreational fishing licences did members of your household 18 to 64 years of age hold in 2000? For 1-day licences, please indicate how many were purchased.

household members

Seasonal licence _____

Conservation licence _____

1-day licence _____ → number purchased _____

31. **Excluding yourself**, how many members of your household in each of the following age groups fished for recreation in Ontario in 2000 and how many days in total did they fish?

household members under 18 years of age _____ days fished in total _____

household members 65 years of age and over _____ days fished in total _____

THANK YOU FOR YOU COOPERATION

If you have any questions regarding recreational fishing in Ontario, you may call 1-800-667-1940 TOLL-FREE.

2000 SURVEY OF RECREATIONAL FISHING IN CANADA

NONRESIDENTS OF ONTARIO

(Le présent questionnaire est également disponible en français)
(QUESTIONS? → 1 (800) 298-9935 TOLL FREE)

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- ▶ the questions are to be answered only by the person to whom the questionnaire was addressed.
- ▶ this survey covers only fishing activity between January 1 and December 31, 2000.
- ▶ the term "household members" refers only to individuals living in your residence.

THANK YOU IN ADVANCE FOR YOUR COOPERATION AND ASSISTANCE.

CONFIDENTIAL WHEN COMPLETED

LICENCE INFORMATION:

1. Which of the following Ontario recreational fishing licences did you personally hold in 2000? For 1-day and 7-day licences, please indicate how many you purchased.

Seasonal licence	₁ <input type="radio"/>	1-day licence	₄ <input type="radio"/>	→ number purchased _____
Conservation licence	₂ <input type="radio"/>	7-day licence	₅ <input type="radio"/>	→ number purchased _____
Spousal licence	₃ <input type="radio"/>	7-day conservation licence	₆ <input type="radio"/>	→ number purchased _____

YOUR PERSONAL RECREATIONAL FISHING ACTIVITIES

- 2a) Did you personally fish for recreation in Ontario in 2000?

Yes ₁ → please continue No ₂ → go to question 15

- b) How many days in total did you spend fishing for recreation in Ontario in 2000?

(A "day" is all or any part of a day fished) _____ days fished

- 3a) Of the above days, how many were spent fishing through the ice in Ontario in 2000?

None → go to question 4 or _____ days fished

- b) Do you own an ice hut? Yes ₁ No ₂

- c) Did you rent an ice hut in 2000? Yes ₁ No ₂

- d) Do you only fish through the ice when you can use an ice hut? Yes ₁ No ₂

4. Excluding any time spent ice-fishing in 2000, what percentage of time did you spend fishing:

from shore or from a dock _____ % from a boat or a canoe _____ %

5. On average, how many hours per day did you fish for recreation in Ontario in 2000? _____ hours per day

6. For each waterbody on which you fished in Ontario in 2000, please provide the location, the days fished on open water as well as through the ice and the number of fish you caught and kept. If you fished in a provincial park, please name the park instead of the nearest town/village. Even if you did not catch any fish, the information on where you fished and how often is important. If you fished more than six water bodies, please record your information on separate pages and attach them.

Please include only your personal fishing activities from January to December 2000

SITE 1	Name of lake, river or stream _____		Number of days fished _____					
	Nearest town/village/park _____		Days fished through ice _____					
	Number of fish <u>Caught</u> <u>Kept</u>		Number of fish <u>Caught</u> <u>Kept</u>		Number of fish <u>Caught</u> <u>Kept</u>			
Walleye (pickerel)	_____	_____	Rainbow trout	_____	_____	Lake sturgeon	_____	_____
Northern pike	_____	_____	Brown trout	_____	_____	Catfish	_____	_____
Perch	_____	_____	Lake trout	_____	_____	Crappie	_____	_____
Muskellunge	_____	_____	Brook trout	_____	_____	Rock bass	_____	_____
Whitefish	_____	_____	Splake	_____	_____	Sunfish	_____	_____
Smallmouth bass	_____	_____	Chinook salmon	_____	_____	Smelt	_____	_____
Largemouth bass	_____	_____	Coho salmon	_____	_____	Other _____	_____	_____

SITE 2	Name of lake, river or stream _____		Number of days fished _____					
	Nearest town/village/park _____		Days fished through ice _____					
	Number of fish <u>Caught</u> <u>Kept</u>		Number of fish <u>Caught</u> <u>Kept</u>		Number of fish <u>Caught</u> <u>Kept</u>			
Walleye (pickerel)	_____	_____	Rainbow trout	_____	_____	Lake sturgeon	_____	_____
Northern pike	_____	_____	Brown trout	_____	_____	Catfish	_____	_____
Perch	_____	_____	Lake trout	_____	_____	Crappie	_____	_____
Muskellunge	_____	_____	Brook trout	_____	_____	Rock bass	_____	_____
Whitefish	_____	_____	Splake	_____	_____	Sunfish	_____	_____
Smallmouth bass	_____	_____	Chinook salmon	_____	_____	Smelt	_____	_____
Largemouth bass	_____	_____	Coho salmon	_____	_____	Other _____	_____	_____

SITE 3	Name of lake, river or stream _____		Number of days fished _____					
	Nearest town/village/park _____		Days fished through ice _____					
	Number of fish <u>Caught</u> <u>Kept</u>		Number of fish <u>Caught</u> <u>Kept</u>		Number of fish <u>Caught</u> <u>Kept</u>			
Walleye (pickerel)	_____	_____	Rainbow trout	_____	_____	Lake sturgeon	_____	_____
Northern pike	_____	_____	Brown trout	_____	_____	Catfish	_____	_____
Perch	_____	_____	Lake trout	_____	_____	Crappie	_____	_____
Muskellunge	_____	_____	Brook trout	_____	_____	Rock bass	_____	_____
Whitefish	_____	_____	Splake	_____	_____	Sunfish	_____	_____
Smallmouth bass	_____	_____	Chinook salmon	_____	_____	Smelt	_____	_____
Largemouth bass	_____	_____	Coho salmon	_____	_____	Other _____	_____	_____

6. continued

SITE 4	Name of lake, river or stream _____	Number of days fished _____
Nearest town/village/park _____		Days fished through ice _____
	Number of fish <u>Caught</u> <u>Kept</u>	Number of fish <u>Caught</u> <u>Kept</u>
Walleye (pickerel)	_____	_____
Northern pike	_____	_____
Perch	_____	_____
Muskellunge	_____	_____
Whitefish	_____	_____
Smallmouth bass	_____	_____
Largemouth bass	_____	_____
	Rainbow trout	Lake sturgeon
	Brown trout	Catfish
	Lake trout	Crappie
	Brook trout	Rock bass
	Splake	Sunfish
	Chinook salmon	Smelt
	Coho salmon	Other _____

SITE 5	Name of lake, river or stream _____	Number of days fished _____
Nearest town/village/park _____		Days fished through ice _____
	Number of fish <u>Caught</u> <u>Kept</u>	Number of fish <u>Caught</u> <u>Kept</u>
Walleye (pickerel)	_____	_____
Northern pike	_____	_____
Perch	_____	_____
Muskellunge	_____	_____
Whitefish	_____	_____
Smallmouth bass	_____	_____
Largemouth bass	_____	_____
	Rainbow trout	Lake sturgeon
	Brown trout	Catfish
	Lake trout	Crappie
	Brook trout	Rock bass
	Splake	Sunfish
	Chinook salmon	Smelt
	Coho salmon	Other _____

SITE 6	Name of lake, river or stream _____	Number of days fished _____
Nearest town/village/park _____		Days fished through ice _____
	Number of fish <u>Caught</u> <u>Kept</u>	Number of fish <u>Caught</u> <u>Kept</u>
Walleye (pickerel)	_____	_____
Northern pike	_____	_____
Perch	_____	_____
Muskellunge	_____	_____
Whitefish	_____	_____
Smallmouth bass	_____	_____
Largemouth bass	_____	_____
	Rainbow trout	Lake sturgeon
	Brown trout	Catfish
	Lake trout	Crappie
	Brook trout	Rock bass
	Splake	Sunfish
	Chinook salmon	Smelt
	Coho salmon	Other _____

7a) Did you release any fish you caught in Ontario in 2000?

Yes ₁ → please continue

No ₂ → go to question 9

b) If yes, was it because it was: mandatory ₁ voluntary ₂ both ₃

8. Including yourself, on average how many anglers were in your fishing parties in 2000?

average number of adults (18 and over) _____

average number of children (under 18) _____

9. Overall, how would you rate your recreational fishing experience in Ontario in 2000?

Excellent ₁

Very Good ₂

Good ₃

Fair ₄

Poor ₅

10. Did you fish for recreation outside Ontario in 2000?

Yes ₁

No ₂

11. Please list the top three species you fished for, in the order of angling preference (see list in Question 6):

Most preferred species	Second preferred species	Third preferred species
_____	_____	_____

12. How often did you use the following sources of information when selecting the places you fished in Ontario in 2000?

Please rate each information source on a scale of 1 (never), 2 (sometimes), 3 (often).

Information Source	Rating	Information Source	Rating
None <input type="radio"/> go to question 14		Friends / Family / other anglers	_____
Internet / web sites	_____	Television / radio announcements	_____
Magazines / newspapers	_____	Television fishing shows	_____
Bait and tackle shops	_____	Licence issuer	_____
Outdoor / sportsman shows	_____	MNR office / field staff	_____
Travel agent / tourist operator	_____	Annual regulation summary	_____
Clubs / associations	_____	Other _____	_____

13. Did you fish in a competitive fishing event in Ontario in 2000?

Yes ₁

No ₂

14. How many years have you fished for recreation in Ontario?

_____ years

15. As an angler, do you consider yourself to be:

an expert ₁

experienced ₂

average ₃

a beginner ₄

16. Did you purchase an Ontario hunting licence in 2000?

Yes ₁

No ₂

17a) Did you have access to a computer with Internet capabilities in 2000?

Yes ₁

No ₂

b) Would you consider purchasing Ontario fishing licences via the internet, if you had this option?

Yes ₁

No ₂

TRIP INFORMATION

- 18a) How many trips did you make to Ontario in 2000?
(A trip should be counted each time you crossed the border into the province). _____ trips
- b) How many days in total did you spend in Ontario in 2000 for all reasons? _____ days
- c) On how many of your trips to Ontario in 2000 did you fish? _____ trips
- d) How many were day-trips requiring no accommodation? _____ day trips
- e) For the remaining fishing trips, how many nights were spent in Ontario? _____ nights
19. If there had been no fishing opportunities in Ontario in 2000, would you have: (please check one only)
- stayed a shorter time ₁
 substituted other activities ₂
 not come at all ₃

EXPENDITURES ON RECREATIONAL FISHING IN 2000

Please indicate which currency you will be using to answer the following expenditure questions:

Canadian Dollars ₁
 U.S. Dollars ₂

- 20a) Did you or any member of your household make any major purchases or investments in Ontario in 2000 related in whole or in part to recreational fishing? (e.g. fishing rods, boats, motors, 4x4's, snowmobiles, cabins, camping gear, trailers, ice fishing gear, etc.)

Please Note: Purchases of fishing supplies (lures, line, tackle, etc.) are covered in question 23.

Yes ₁ → please continue
 No ₂ → go to question 22

- b) For each investment category, please indicate the amount of money spent in Ontario in 2000 by you and members of your household and please estimate the percentage of the total amount you consider was directly attributable to recreational fishing activities during the year.

Investment Category	Total Amount Spent on Purchases in Ontario	% of Total Attributable to Recreational Fishing
Fishing Equipment (rods, reels, fish finders, etc.)	\$ _____ .00	100%
Boating Equipment (boats, motors, trailers, etc.)	\$ _____ .00	_____ %
Camping Equipment (tents, camper trailers, etc.)	\$ _____ .00	_____ %
Special Vehicles (4x4's, ATV's, camper trucks, snowmobiles etc.)	\$ _____ .00	_____ %
Land-Buildings (cabins, cottages, land, etc.)	\$ _____ .00	_____ %
Other (special clothing, waders, ice-huts, etc.)	\$ _____ .00	_____ %

- c) Of the above investments, how much was spent solely for ice fishing?
(include ice-huts, ice augers, floater coats and suits, ice fishing rods, etc.) \$ _____ .00

21. PACKAGES PURCHASED IN 2000

The following question refers only to packages purchased in Ontario from a lodge or outfitter (or their agent) which include a complete range of services such as lodging, food, transportation, etc.

For self-organized trips, please include expenditures in question 23.

a) Did you or any member of your household purchase any such packages to fish in Ontario in 2000?

Yes ₁ → please continue No ₂ → go to question 23

b) If yes, what was the total cost to you and your household per package, the site number (from question 6), and the mode of transportation used to reach the actual site? Also, please indicate if this package deal was for ice fishing. If the package was purchased by a group, please include only your household's share.

Package	Cost	Site Number (from question 6)	Mode of transportation used to reach actual site	Ice fishing package	
				Yes <input type="radio"/>	No <input type="radio"/>
# 1	\$ _____ .00			Yes <input type="radio"/>	No <input type="radio"/>
# 2	\$ _____ .00			Yes <input type="radio"/>	No <input type="radio"/>
# 3	\$ _____ .00			Yes <input type="radio"/>	No <input type="radio"/>
# 4	\$ _____ .00			Yes <input type="radio"/>	No <input type="radio"/>

22. **EXCLUDING** expenditures on major purchases and package deals, please indicate the amount of money you and other members of your household spent on the following to fish for recreation in Ontario in 2000.

Expenditure Category	Amount
Accommodation (hotels, motels, etc.)	\$ _____ .00
Campsite fees (private, provincial, etc.)	\$ _____ .00
Food (groceries, restaurant meals, alcoholic beverages)	\$ _____ .00
Travel costs within Ontario for recreational fishing - vehicle expenses (including gas, repairs, rentals), air fares, etc.	\$ _____ .00
Household owned boat costs (gas, repairs, launch/ramp fees, moorage, insurance, etc.)	\$ _____ .00
Boat rentals	\$ _____ .00
Fishing supplies (bait, line, tackle, etc.)	\$ _____ .00
Guide services	\$ _____ .00
Fishing licence fees (permits, tags, etc.)	\$ _____ .00
Access fees	\$ _____ .00
Other (park fees, tolls, etc.)	\$ _____ .00

b) Of the above expenditures, approximately how much was spent on ice fishing? \$ _____ .00

If you did not personally fish for recreation in Ontario in 2000, please go to question 24.

23a) Please consider the number of days you fished and what you paid to fish in Ontario during 2000, the amount of money you spent for similar recreational activities, and your income in 2000. Would you still have fished for recreation in Ontario had your out of pocket costs PER FISHING DAY been higher due to increased costs for gasoline, accommodation, supplies, etc?

Yes ₁ → please continue No ₂ → go to question 25

b) What is the maximum additional amount of money you would PAY PER FISHING DAY before it would have been too expensive to fish at all in Ontario in 2000?

- Less than \$10.00 per day ₁ (please specify) \$ _____ .00
- \$10.00 / day ₂ \$20.00 / day ₃ \$30.00 / day ₄ \$40.00 / day ₅
- \$50.00 / day ₆ \$60.00 / day ₇ \$70.00 / day ₈ \$80.00 / day ₉
- \$90.00 / day ₁₀ \$100.00 / day ₁₁ More than \$100 / day ₁₂ (specify) \$ _____ .00

INFORMATION ABOUT YOU AND YOUR HOUSEHOLD

In order for us to analyze the data collected in this survey in a meaningful way, we require some personal information about you and the members of your household. This will allow us to accurately estimate the number of anglers in the province, their use of the resource and the economic benefits generated by recreational fishing in the province of Ontario.

YOUR ANSWERS WILL REMAIN STRICTLY CONFIDENTIAL

24. In what year were you born? 19__
25. Are you: Male ₁ Female ₂
26. **Excluding yourself**, how many other members of your household 18 years of age and over held any of the following Ontario recreational fishing licences in 2000? For 1-day and 7-day licences, please indicate how many were purchased.

<u>Licence Type</u>		<u>Household Members</u>	<u>Number Purchased</u>
Seasonal licence	<input type="radio"/> ₁	_____	
Conservation licence	<input type="radio"/> ₂	_____	
7-day fishing licence	<input type="radio"/> ₃	_____	_____
7-day conservation licence	<input type="radio"/> ₄	_____	_____
Spousal licence	<input type="radio"/> ₅	_____	
1-day licence	<input type="radio"/> ₆	_____	_____

THANK YOU

If you have any questions regarding recreational fishing in Ontario, you may call 1-800-387-7011 TOLL FREE.

Please use the next page to enter any comments you may have on recreational fishing in Ontario.

