Tennessee Valley Authority, 1101 Market Street, Chattanooga, Tennessee 37402

CNL-14-086

May 27, 2014

10 CFR Part 51

ATTN: Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555-0001

Sequoyah Nuclear Plant, Units 1 and 2
Facility Operating License Nos. DPR-77 and DPR-79
NRC Docket Nos. 50-327 and 50-328

Subject: **Documents for the Environmental Review of the Sequoyah Nuclear Plant, Units 1 and 2, License Renewal Application – Env 4 (TAC Nos. MF0057 and MF0058)**

Reference: TVA Letter to NRC, "Sequoyah Nuclear Plant, Units 1 and 2 License Renewal," dated January 7, 2013 (ADAMS Accession No. ML13024A004)

By letter dated January 7, 2013 (Reference), Tennessee Valley Authority (TVA) submitted the License Renewal Application (LRA) to the Nuclear Regulatory Commission (NRC) to renew the operating license for the Sequoyah Nuclear Plant (SQN), Units 1 and 2. The request would extend the licenses for an additional 20 years beyond the current expiration dates.

To facilitate the NRC environmental review, the information-only documents contained in the enclosures are being transmitted to the NRC via electronic submittal, as requested by the NRC Environmental Project Manager, David Drucker, on May 12, 2014.

There are no new regulatory commitments in this letter. If you have any questions please contact Henry Lee at (423) 751 2683.

Respectfully,

Eugene D. Cobey FOR

J. W. Shea
Vice President, Nuclear Licensing

Enclosures
cc: See Page 2

Enclosures:

1 TVA 2000 Chickamauga Res Fisheries Monitoring 1999 Cove Rotenone
2 TVA 2010a Entrainment Monitoring at SQN in 2004 Report 2010 Rev
3 ML100710009 TN Reservoir Creel 2008 Survey
4 Black 2009 Tennessee Reservoir Creel Survey 2008 Results
5 Black 2010 Tennessee Reservoir Creel Survey Revised 2009 Results
6 Creel Report 2010
7 Creel Report 2011
8 TVA 1994 Chickamauga White Bass Study 1990_92 Final
9 TVA 1995a Chickamauga Reservoir Sauger Investigation 1993 1995
10 TVA 1991 Status of Channel Catfish Pop in Chickamauga Res
11 TVA 2009b Biological Monitoring TN River SQN Discharge Autumn 2008
12 Third Rock 2010a Mollusk Survey TN River Near Watts Bar NP SUNSI
13 TVA 1989 Plankton Studies at SQN in 1988
14 TVA 1990a Plankton Studies at SQN in 1989
15 TVA 2007a Aquatic Plants in TVA Reservoirs Potential Impacts Power Gen

cc (Enclosures):

NRC Regional Administrator – Region II
NRC Senior Resident Inspector – Sequoyah Nuclear Plant
NRC SQN Environmental Project Manager – David.Drucker@nrc.gov

TENNESSEE VALLEY AUTHORITY

Resource Group

Water Management

Environmental Compliance

Enclosure 1

CHICKAMAUGA RESERVOIR FISHERIES MONITORING

1999 COVE ROTENONE RESULTS

Prepared by

Dennis S. Baxter

February 2000

TABLE OF CONTENTS

List of Figure(s) iii

List of Table(s) iv

Executive Summary vi

Introduction 1
- Purpose and History 1
- Watts Bar Nuclear Plant 1
- Sequoyah Nuclear Plant 2
- Reservoir Description 2

Materials and Methods 3

Results and Discussion 4
- Important Species 5
  - Gizzard Shad 5
  - Threadfin Shad 6
  - Carp 6
  - Golden Shiner 6
  - Bullhead Minnow 6
  - Bluegill 7
  - Redear Sunfish 7
  - Smallmouth Buffalo 7
  - Spotted Sucker 7
  - Channel Catfish 7
  - Flathead Catfish 8
  - White Bass 8
  - Yellow Bass 8
  - Warmouth 8
  - White Crappie 8
  - Black Crappie 8
  - Sauger 9
  - Yellow Perch 9
  - Freshwater Drum 9
  - Largemouth Bass 9

Conclusions 10

Literature Cited 11

LIST OF FIGURE(S)

Number Page

1 Location of cove rotenone sample sites in Chickamauga Reservoir, 1970 through 1997....13

2 Total standing stocks of fish collected in rotenone samples from Chickamauga Reservoir from 1970 through 1997....14

3 Total biomass of fish collected in rotenone samples from Chickamauga Reservoir from 1970 through 1997....14

LIST OF TABLE(S)

Number Page

1 Characteristics of rotenone sites sampled in Chickamauga Reservoir, 1970 through 1997 (Chickamauga Dam located at TRM 471.0, Sequoyah Nuclear Plant at TRM 484.5, and Watts Bar Nuclear Plant located at TRM 528.0) 15

2 Size classes (millimeters) used in fish inventories 18

3 Common and scientific names of fish in rotenone samples Chickamauga Reservoir, 1997.....19

4 List of fish species collected in cove rotenone samples from Chickamauga Reservoir, 1970-1997.....21

5 Number of coves sampled and mean annual standing stock (no/ha and kg/ha) of all young, intermediate, and harvestable size fish collected in cove rotenone samples from Chickamauga Reservoir, 1970-1997 24

6 Percent species composition of cove rotenone samples, Chickamauga Reservoir, 1997.....25

7 Percent size distribution of major fish groups, Chickamauga Reservoir, 1997 26

8 Mean annual standing stock (no/ha and kg/ha) of game, commercial, and forage fish collected in cove rotenone samples from Chickamauga Reservoir, 1970 -1997.....27

9 Mean number and weight (kg) of fish per hectare in five cove rotenone samples from Chickamauga Reservoir, 1997.....28

10 Listing of important species collected in cove rotenone samples from Chickamauga Reservoir, 1970-1997 30

11 Results of linear regression analyses indicating significant trends in numbers and/or biomass by size group of important fish species collected in cove rotenone samples from Chickamauga Reservoir, 1970-1997 31

12 Numbers and biomass per hectare for young-of-year and adult gizzard shad in cove rotenone samples, Chickamauga Reservoir, 1970-1997.....33

13 Numbers and biomass per hectare for young-of-year and adult threadfin shad in cove rotenone samples, Chickamauga Reservoir, 1970-1997.....34

14 Numbers and biomass per hectare for each size group of carp in cove rotenone samples, Chickamauga Reservoir, 1970-1997 35

15 Numbers and biomass per hectare of young-of-year golden shiners in cove rotenone samples, Chickamauga Reservoir, 1970-1997 36

16 Numbers and biomass per hectare of young-of-year bullhead minnows in cove rotenone samples, Chickamauga Reservoir, 1971-1997.....37

LIST OF TABLE(S) (Continued)

Number Page

17 Numbers and biomass per hectare for each size group of bluegill in cove rotenone samples, Chickamauga Reservoir, 1970-1997 38

18 Numbers and biomass per hectare for each size group of redear sunfish in cove rotenone samples, Chickamauga Reservoir, 1970-1997....39

19 Numbers and biomass per hectare for each size group of smallmouth buffalo in cove rotenone samples, Chickamauga Reservoir, 1970-1997....40

20 Numbers and biomass per hectare for each size group of spotted sucker in co ve rotenone samples, Chickamauga Reservoir, 1970-1997....41

21 Numbers and biomass per hectare for each size group of channel catfish in cove rotenone samples, Chickamauga Reservoir, 1970-1997....42

22 Numbers and biomass per hectare for each size group of f lathead catfish in cove rotenone samples, Chickamauga Reservoir, 1970-1997....43

23 Numbers and biomass per hectare for each size group of white bass in cove rotenone samples, Chickamauga Reservoir, 1970-1997 44

24 Numbers and biomass per hectare for each size group of yellow bass in cove rotenone samples, Chickamauga Reservoir, 1970-1997 45

25 Numbers and biomass per hectare for each size group of warmouth in cove rotenone samples, Chickamauga Reservoir, 1970-1997 46

26 Numbers and biomass per hectare for each size group of white crappie in cove rotenone samples, Chickamauga Reservoir, 1970-1997....47

27 Numbers and biomass per hectare for each size group of black crappie in cove rotenone samples, Chickamauga Reservoir, 1970-1997....48

28 Numbers and biomass per hectare for each size group of sauger in cove rotenone samples, Chickamauga Reservoir, 1970-1997 49

29 Numbers and biomass per hectare for each size group of yellow perch in cove rotenone samples, Chickamauga Reservoir, 1970-1997....50

30 Numbers and biomass per hectare for each size group of freshwater drum in cove rotenone samples, Chickamauga Reservoir, 1970-1997....51

31 Numbers and biomass per hectare for each size group of largemouth bass in cove rotenone samples, Chickamauga Reservoir, 1970-97 52

EXECUTIVE SUMMARY

Changes and significant trends in numbers and biomass have been noted for all of the fish species designated important in Chickamauga Reservoir. Total number and biomass in 1997 was higher than the average for the period of record (1970-1997), (Table 5, Figures 2 and 3). Some species (i.e., carp, smallmouth buffalo, flathead catfish, sauger, and white crappie) that have shown significant decreases in numbers and/or biomass for one or more size classes are those for which cove rotenone sampling often does not provide a representative sample. Therefore, for these species, trends based entirely on cove rotenone data may be spurious. However, cove rotenone data for young-of-year white bass and crappie are considered more valid. Conversely, species that have shown increasing trends (i.e., bluegill, redear sunfish, warmouth, yellow perch, gizzard shad, and largemouth bass) are those for which cove rotenone provides better estimates of relative abundance, and trends based on these data are more likely to be accurate. Cove rotenone data are also considered valid in evaluating population trends for channel catfish, threadfin shad, bullhead minnows, and yellow bass.

The overriding influence on standing stock estimates for many of the important fish species in Chickamauga Reservoir appears to be effects of habitat alteration. The dramatic increase in aquatic macrophytes from 1980 through 1988 resulted in higher standing stock estimates for various centrarchids, particularly warmouth, redear sunfish, bluegill and largemouth bass. Whether the increased aquatic vegetation during the 1980's resulted in an actual decrease in biomass or numbers of some fish species (e.g., certain size groups of white crappie and freshwater drum) or simply displaced them to uninfested areas, is not clear.

Information on the relationship between aquatic macrophyte type, coverage and fish community dynamics, along with past studies on reservoir fish species, have provided additional data on the fish community and possible effects of SQN operation. In light of this information, a review of both WBN Environmental Impact Statement (TVA, 1993) and WBN Operational Monitoring Reports (TVA 1997 and 1998) indicates no significant impacts occurred to the fish community during WBN operation. These cited studies indicate that potential impacts associated with entrainment of larval white bass and sauger in the

WBN intake area due to spawning between the dam and plant are insignificant since these species show very little spawning activity in this region and occur downstream of WBN in Chickamauga reservoir. The 1995 and 1997 cove rotenone samples were the first collected on a biennial schedule. The next cove rotenone sampling will be conducted in the summer of 1999.

INTRODUCTION

Purpose and History

The Tennessee Valley Authority (TVA) is required by the National Pollutant Discharge Elimination System (NPDES) Permit for Sequoyah Nuclear Plant (SQN) to conduct and report annually a nonradiological operational monitoring program to evaluate potential effects of SQN on Chickamauga Reservoir. This monitoring program was initially designed to identify potential changes in water quality and biological communities in Chickamauga Reservoir resulting from operation of SQN. Results of monitoring conducted from 1980-1987 (TVA 1982, 1983a, 1984, 1985, 1986a, 1986b, 1987) identified no significant changes in Chickamauga Reservoir considered to be related to operation of SQN. Based on absence of plant-induced effects and fulfillment of the monitoring period required by the NPDES permit, some components of the program were terminated. Cove rotenone sampling was continued because it remains the best overall method for determining reservoir-wide quantitative and qualitative changes in fish populations.

Chickamauga Reservoir cove rotenone sampling has also been conducted as part of the preoperational monitoring program for Watts Bar Nuclear Plant (WBN) to evaluate the combined effects of operating two nuclear facilities on one reservoir once WBN becomes operational. The purpose of this report is to present results of cove rotenone sampling conducted on Chickamauga Reservoir in 1997.

Watts Bar Nuclear Plant

WBN is located on the west bank of Chickamauga Reservoir at Tennessee River Mile (TRM) 528.0 (Figure 1), approximately two miles downstream from Watts Bar Dam. Operators at WBN started the Unit I reactor on January 18,1996. During the first year of operation (May 27, 1996 through September 5, 1997) WBN generated more than 8.5 billion kilowatt-hours of electricity and operated at 84 percent capacity. WBN was operated in closed cycle cooling mode, with blowdown from the two cooling towers being discharged through multiport diffusers located in the main channel at TRM 527.8. Makeup water was pumped from an intake channel located at TRM 528.0 with a maximum flow rate of 4.5 m^3/s (160 cfs), which represents 0.6 percent of the long-term average flow of 767 m^3/s (27,100 cfs) past WBN.

Sequoyah Nuclear Plant

SQN is located on the west bank of Chickamauga Reservoir at TRM 484.5 (Figure 1). In July, 1981, SQN began commercial operation when Unit I was started. The plant now has two pressurized water reactors with a total nameplate rating of 2,441 MWe. Condenser cooling water (CCW) is withdrawn from the cooler lower strata of Chickamauga Reservoir under a deep skimmer wall, situated near the 13 m deep river channel. Water leaving the condensers can be routed in one of three ways: (1) to the diffuser pond and out the diffuser pipes (open mode); (2) through the cooling towers, then to the diffuser pond and out the diffuser pipes (helper mode); or (3) through the cooling towers and recirculated to the intake (closed mode) with blowdown being discharged through the diffuser pipes. An underwater dam crosses the river channel 75 m upstream from the diffuser, decreasing the likelihood of any warm water wedge extending upstream from the thermal discharge to the plant intake, and "impounding" cooler water from lower strata of the reservoir near the intake.

During 1997, both units at SQN were operating a majority of the year, with only short, intermittent shutdowns. Prior to August, 1995, the longest period of downtime for either unit occurred when Unit II was shut down April 6 through April 24. On August 5, Unit I began ramping down for refueling, and was down the remainder of August, 1995.

Reservoir Description

Chickamauga Reservoir is formed by Chickamauga Dam, situated at TRM 471.0. Water elevation normally varies from 205.7 m (675 ft) msl in winter to 208.0 m (682.5 ft.) msl in summer. At elevation 208m msl, the reservoir is 94.8 km (58.9 mi) long on the Tennessee River and extends 51.5 km (31 mi) up the Hiwassee River. Annual mean travel time for water moving through the reservoir is approximately seven days. Monthly average travel times range between 4 days (February) and 11 days (May). According to current operating guidelines, TVA attempts to maintain a minimum daily average discharge of 170 m^3/s (6,000 cfs) from Chickamauga Dam.

MATERIALS AND METHODS

Fish sampling with rotenone was initiated in Chickamauga Reservoir in 1947 to determine standing stock (no/ha and kg/ha) of game, forage, and commercial fish species. Samples were taken at various locations, primarily in coves, annually through 1959 (except for 1948 and 1953). In addition to standing stock information, these data provided species occurrence and composition information and characterized the general fish community of the reservoir. No samples were collected from 1960 -1969, but annual sampling resumed in 1970 to collect preoperational monitoring data for SQN. The most recent SQN and WBN permits call for biennial sampling after 1993, starting with the 1995 sampling. Locations of sample sites are shown in Figure 1. Characteristics of sample sites (1970-1997) are shown in Table 1.

Cove rotenone sampling provides estimates of fish populations in coves. These estimates do not necessarily represent true population estimates of the entire reservoir because fish species are not distributed evenly throughout the reservoir. However, useful estimates are possible for certain species which orient more toward shoreline or structure other than open water habitat during all or part of their life cycle. Considering these limitations, cove rotenone sampling can provide an estimate of abundance of many fish species in southeastern reservoirs. Cove rotenone data provide estimates of reproductive success, year -class strengths, and relative fish stock sizes in a given year; and aid in determining long-term trends in these parameters for various littoral species in a reservoir.

The fish population in a cove is first isolated from the reservoir by stretching a block net across the cove. Toxicant (rotenone) is applied throughout the water column and fish are collected as they surface. Fish not collected initially are picked up the subsequent day after they have floated to the surface. Analysis of cove rotenone data includes grouping fish into young-of-year, intermediate, and harvestable size classes based on length (Table 2) as well as game, commercial and forage classification (Table 3). A complete description of field procedures and data analysis techniques can be reviewed in TVA 1983b.

For discussion in this report, species designated as important were determined by the following criteria: (1) must occur in at least 50 percent of samples since 1970, and (2) must comprise one percent of either the total number or total biomass collected. In addition to species meeting these criteria, certain other

species of special interest were included for analysis because of their importance as sport or commercial species.

RESULTS AND DISCUSSION

Forty-three species representing thirteen families of fish were collected in cove rotenone samples in 1997 (Table 3). This was the same number of species collected in 1995. Four species collected in 1997 were not collected in 1995 and conversely four species collected in 1995 were not collected in 1997. However, variations of this nature are considered typical for rotenone samples and should not be interpreted as an overall trend in the reservoir fishery as a whole. In the cove rotenone samples from 1970 through 1997, over seventy different species have been collected (Table 4). Total standing stock of fish in Chickamauga Reservoir in 1997 was 39,936 fish/ha weighing 299.8 kg/ha (Table 5). The total number of fish per hectare collected in 1997 was higher than average (26,802) for the period of record. Total biomass (299.8kg/ha) in 1997 was higher than the average (293.5 kg/ha) for the period of record. The total standing stocks and total biomass of fish collected in cove rotenone samples on Chickamauga Reservoir from 1970 through 1995 are shown in Figures 2 and 3, respectively. With respect to total standing stocks, as well as for fish groupings such as game, forage and commercial species, these variations and those described below are normal and expected as the population adjusts to changing environmental conditions within the reservoir. These conditions include, but are not limited to, such things as droughts, floods, and changes in habitat associated with aquatic macrophyte coverage and dominant plant species present.

The most abundant species in 1997 rotenone samples was threadfin shad (39.6 percent), bluegill (30.6 percent), gizzard shad (9.6 percent), followed by blountnose minnow (5.6 percent), and bullhead minnow (4.6 percent) (Table 6). Gizzard shad comprised 52.1 percent of the total biomass sampled, followed by bluegill (11.7 percent), freshwater drum (10.9 percent), redear sunfish (4.6 percent) and threadfin shad (4.0 percent), bringing the biomass of these five species to 83.3 percent of the total sample.

In 1997, young-of-year fish represented 91.8 percent of the total number of fish and 14.3 percent of the biomass (Table 7). Percentage (by number) of intermediate size fish was 3.9 percent and harvestable size fish 4.3 percent, but harvestable size fish comprised 74.7 percent of the total biomass.

All size groups of gamefish together comprised 35.4 percent of the total number and 22.8 percent of the total biomass of all samples from 1997 (Table 7). Young-of-year gamefish comprised 31.1 percent of the total number of fish sampled in 1997 (Table 7). With the exception of 1977 through 1988, 1990, 1995 and 1997, gamefish numbers were less than 10,000 fish per hectare for the 25 year period (Table 8). Highest numbers were observed from 1977 through 1988. This was followed by a decline in 1989, and an overall increasing trend from 1989-1997. Bluegill were the dominate species in this group (12,215 no/ha) (Table 9).

Forage species comprised 63.5 percent of the total number in 1997 and 58.4 percent of the biomass (Table 7). Numbers and biomass of forage fish have been highly variable since 1970, with this year's estimate being the highest density (39,935.5 no/ha) with the exception of 1993 (Table 8). Young-of-year threadfin shad, gizzard shad, golden shiners, bullhead and blountnose minnows dominate total number in this group (Table 9).

Commercial species comprised 1.1 percent of the total number and 18.8 percent of the total biomass in 1997 (Table 7). Commercial species numbers and biomass has not changed from 1995, but since 1970 have indicated a slight downward trend (Table 8). Freshwater drum dominate total number in this group (Table 9).

Important Species

Twenty species were classified as important or of special interest in cove rotenone samples from 1970 through 1997 (Table 10). Results of linear regression analyses for significant trends (Table 11), and abundance and biomass of all size classes of these species through time are discussed below. The trend analyses cover the entire sampling period from 1970, and may not reflect the most recent population trends.

Gizzard shad. Number and biomass of young-of-year gizzard shad decreased sharply in 1995, resulting in the lowest density recorded since 1981 (Table 12). However, young-of-year numbers and biomass has increased in 1997 and continued to show a significant increasing trend through time (Table 11) and (Figure 4). No statistically significant trends were indicated for numbers or biomass of adult gizzard shad. However, there has been a gradual decline in adult numbers and biomass from 1989 through 1997.

Threadfin Shad. Threadfin shad stock estimates have varied widely during the period of record. This species frequently experiences extensive winter kill in Tennessee Valley reservoirs. Dramatic declines in 1978, 1979, 1982, 1984, and 1989 (Table 13) followed especially cold winters. In 1997, young-of-year density increased from that observed in 1995 (Table 13). Both numbers and biomass for young-of-year threadfin shad continue to show a significant increasing trend through time (Table 11) and (Figure 5).

Adult threadfin shad were absent from the 1995 samples and have not been collected in the samples from 16 of the 26 years of record (Table 13). While adult densities may actually be low, this could also be a result of the size classification system. Threadfin shad are presently classified as young-of-year if they fall within a size range of 1 to 125 mm in total length. This grouping may include threadfin shad which are actually adults.

Carp. The lowest total number and total biomass for the period of record was recorded for carp in 1995. No carp were collected in 1997 cove rotenone samples. Interestingly, only adult carp were collected during the prior six consecutive sampling periods. (Table 14). The trend in number and biomass of adult carp shows a statistically significant decrease (Table 11) and (Figure 6). Causes for the decrease in adult carp are not known. However, it should be noted that cove rotenone probably does not provide a representative sample of all sizes of this species (especially smaller size classes), and statistically significant increasing or decreasing trends should be qualified (TVA 1986b, 1987).

Golden shiner. Densities of young-of-year golden shiner observed in 1997 were lower than those found in 1995 (Table 15). Linear regression analysis, however, shows an increasing trend in numbers and biomass for young-of-year (Table 11) and (Figure 7).

Bullhead Minnow. Results of linear regression analysis show that numbers of young-of-year bullhead minnows have exhibited a statistically significant increase since 1971 (Table 11) and (Figure 8). The density and biomass in 1997 and 1995 was the highest for the period of record (Table 16). This species is described as inhabiting sluggish pools and backwaters of medium sized to large streams, and is also relatively tolerant of turbidity and siltation (Pflieger 1975). Trends in the rotenone data would indicate that these characteristics have proven advantageous in allowing bullhead minnows to successfully adapt to the aquatic conditions found in Chickamauga Reservoir.

Bluegill. Numbers and biomass for bluegill of all size classes show a statistically significant increase since 1970 (Table 11) and (Figure 9). In 1997, the density and biomass of bluegill relatively remained the same as 1995 values (Table 17). Young-of-year and adult bluegill numbers in 1997 were slightly less than those observed in 1995. However, intermediate numbers and biomass of bluegill were over 50% greater than those observed in 1995. This increase in numbers of bluegill is the primary cause of the dramatic increase in the percent by numbers of gamefish in 1997 versus 1995.

Redear sunfish. In spite of relatively high fluctuations in numbers and biomass of young-of-year, intermediate, and adult redear sunfish, total biomass for this species has been fairly stable since 1980 (Table 18). Linear regression analysis has shown a statistically significant increase in numbers of young-of-year, intermediates and adults and biomass of young-of-year and intermediates for the period of record (Table 11) and (Figure 10).

Smallmouth Buffalo. All size groups of smallmouth buffalo were collected in the 1997 sample. Intermediate smallmouth buffalo, which have been absent from the samples since 1986, were collected in 1997 samples. The density of this size class was the second highest since 1971 (Table 19). Nevertheless, both numbers and biomass of intermediate and adult size classes of this species have declined significantly (Table 11) and (Figure 11). While this trend warrants concern considering the commercial value of smallmouth buffalo, it is probable that cove rotenone does not provide representative samples of the reservoir population of this species and statistically significant decreasing or increasing trends should be qualified.

Spotted Sucker. The number and biomass of all size groups of spotted sucker increased sharply from 1995 (Table 12). Statistically, spotted sucker have declined significantly in both numbers and biomass (Table 11) and (Figure 12) during the period of record, but recruitment has apparently been adequate to maintain adult stocks (Table 20).

Channel Catfish. Numbers and biomass of young-of-year and intermediate channel catfish, as well as numbers of adults, show a significant decline over the period of record (Table 11) and (Figure 13). Total number and biomass, excluding 1995, was the lowest since 1970 but have increased slightly (Table 21). No intermediate channel catfish were collected in 1997. However, creel data from 1996 and 1997 indicates the estimated number caught was 203,732 fish (TWRA, 1997) and 123,727 fish (TWRA 1998), respectively. A study

of the status of the channel catfish population in Chickamauga Reservoir helps explain the conflicting trends reported here (Peck and Buchanan, 1995).

Flathead Catfish. Regression analysis indicates a significant declining trend in numbers and biomass of intermediate flatheads, and in numbers of adults (Table 11) and (Figure 14). However, cove rotenone sampling does not collect large numbers of this spec ies, nor does it provide a representative sample of all size classes (Table 22).

White Bass. Regression analysis indicated a statistically significant decrease in numbers of young -of-year (Table 11) and (Figure 15); however, cove rotenone sampling is not a good indicator for white bass populations in a reservoir because it does not collect adequate numbers of this species. Although there were no intermediate or adult white bass collected by cove rotenone in 1997 (Table 23), an investigation of white bass in Chickamauga Reservoir from 1990 through 1992 indicates a viable, and perhaps expanding, population (Buchanan, 1994).

Yellow Bass. In 1997, densities and biomass for young -of-year and adult yellow bass were higher than in 1995(Table 24). Regression analysis indicate a significant increasing trend in numbers and biomass of young-of-year. (Table 11) and (Figure 16).

Warmouth. Total density and biomass of intermediate and adult warmouth in 1997 was higher than 1995 (Table 25). Although young -of-year total density and biomass was lower than 1995, regression analysis indicates that numbers and biomass for all size groups of warmouth increased significantly from 1970 through 1997 (Table 11) and (Figure 17).

White Crappie. Density and biomass for young -of-year white crappie was higher in 1997 than in 1995 (Table 26), and, for the fourth consecutive sampling period, no adults were collected. A significant declining trend in numbers and biomass of adult and intermediate white crappie was indicated by regre ssion analysis (Table 11) and (Figure 18).

Black Crappie. Young-of-year black crappie have shown an increase in total numbers since 1988 (Table 27). In 1997, density and biomass of young -of-year and intermediate black crappie was lower than that of 1995. However, the total biomass of adult black crappie increased from that observed in 1995. A significant

increasing trend in numbers and biomass of young-of-year and intermediate, and numbers of adult black crappie was indicated by regression analyses (Table 11) and (Figure 19).

Sauger. Number and biomass of intermediate and adult sauger have increased in cove rotenone samples in 1997 (Table 28) and (Figure 20). Cove rotenone is not a valid indicator of sauger populations in reservoirs and sauger have not been collected consistently in cove rotenone samples from Chickamauga Reservoir since 1979 (Table 28). Results of TVA's recent investigations of the sauger population in Chickamauga Reservoir indicate a decline in abundance during the drought (1985-88) caused by weak year classes in 1985 and 1986, mortality of older year classes and extended periods of low flow during spawning (Hickman et al 1989). TVA initiated an annual program in spring of 1992 to supply a minimum flow of 4,000 cfs from Watts Bar Dam during the April sauger spawning period to enhance spawning success. This program should help restore sauger populations to their earlier levels. Creel data indicated a significant increase in numbers of sauger caught (203,732) in 1996 (TWRA, 1997). However, in 1997 only 71,928 sauger were caught (TWRA 1998).

Yellow Perch. Young-of-year yellow perch first appeared in Chickamauga Reservoir cove rotenone samples in 1970. Both numbers and biomass for all size classes have shown statistically significant increasing trends (Table 11) and (Figure 21). In 1997, density and biomass for all size groups of this species were higher than in 1995 (Table 29).

Freshwater Drum. Regression analyses revealed that numbers and biomass of young-of-year freshwater drum have declined, while numbers of adults have increased in samples from 1970 through 1997 (Table 11) and (Figure 22). In 1997, density and biomass for all size groups were higher than in 1995 (Table 30). A study conducted on Chickamauga Reservoir in 1986 (TVA 1987) indicated that in spite of decreasing trends in density and biomass of young-of-year freshwater drum as indicated in cove rotenone results, the total population appears to be stable.

Largemouth Bass. Estimates of numbers and biomass of young-of-year and adult largemouth bass were higher, and numbers of intermediates were lower in 1997 than in 1995 (Table 31). Biomass of all size classes were greater in 1997 than in 1995. Regression analyses in 1997 show a significant increasing trend in numbers and biomass for young-of-year and adult largemouth bass for the period of record (Table 11) (Figure 23).

CONCLUSIONS

Cove rotenone sampling is limited and does not provide representative samples for all species. However, it remains the best method for determining reservoir-wide quantitative and qualitative fish standing stock trends in Chickamauga Reservoir. Total numbers and biomass of fish per hectare estimated from 1997 cove rotenone samples in Chickamauga Reservoir were higher than the overall average for the period 1970 through 1997. Declining trends noted from cove rotenone studies for certain important species (e.g. sauger, channel catfish, white bass and crappie) are often contradicted by increased catch recorded by both sportfishing and/or commercial creel data collected by TWRA. Creel data for these species are likely more accurate than cove rotenone data since sauger, channel catfish, white bass and crappie are not normally thought of as cove dwelling species (especially during the summer) and not as accurately sampled by cove rotenone as by sport and commercial fishermen. Primary factors which have been associated with variation in reservoir fish standing stocks include density of aquatic macrophyte coverage and drought or flood -induced conditions.

Targeted studies on Chickamauga Reservoir fish species, Reservoir Fish Assembly Index (RFAI), five operational reports assessing the environmental conditions in Chickamauga Reservoir (TVA 1982, 1983a, 1984, 1985, 1986a), a review of both WBN Environmental Impact Statement (TVA, 1993) and WBN Operational Monitoring Reports (TVA 1997 and 1998) indicates no significant impacts occurred during SQN and WBN operation on the fish community. Chickamauga Reservoir cove rotenone sampling is conducted on a biennial rather than an annual schedule. The next samples will be collected during the summer of 1999 and should represent the second fish standing stock data with both SQN and WBN in operation. SQN and WBN has been in operation for seventeen and two years, respectively, with no apparent effects to the reservoir fish community.

LITERATURE CITED

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Table 1. Characteristics of rotenone sites sampled in Chickamauga Reservoir, 1970 through 1995 and 1997 (Chickamauga Dam located at TRM 471.0, Sequoyah Nuclear Plant at TRM 484.5, and Watts Bar Nuclear Plant at TRM 528.0).

Tennessee River mile	Date	Area (hectares)	Mean depth (m)	Maximum depth (m)	Surface temperature (°C)
475.2	08/03/70	0.90	1.5	3.2	29.5
475.5	08/04/70	0.89	1.8	-	29.4
475.5	09/14/71	1.26	2.0	-	25.5
475.7	09/19/72	1.26	2.0	-	-
475.7	09/18/73	1.26	-	6.4	24.8
475.7	09/16/74	1.26	2.0	4.6	25.0
475.7	09/16/75	1.33	2.0	6.1	23.5
475.7	09/14/76	0.93	1.9	4.9	23.5
476.2	09/01/77	0.49	1.1	1.9	28.1
476.2	08/22/78	0.29	0.7	1.5	28.5
476.2	08/21/79	0.74	1.2	2.8	28.5
476.2	08/19/80	0.65	0.7	2.2	30.0
476.2	09/01/81	0.75	1.1	2.8	27.5
476.2	08/31/82	0.42	0.8	1.4	27.5
476.2	08/30/83	0.42	0.8	1.8	29.5
476.2	08/27/84	0.42	0.7	1.5	26.8
476.2	08/27/85	0.42	0.8	1.5	26.5
476.2	08/26/86	0.40	0.6	1.5	30.4
476.2	08/11/87	0.40	0.8	1.5	30.0
476.2	08/23/88	0.50	1.1	2.1	30.2
476.2	08/15/89	0.50	1.0	3.3	29.1
476.2	08/14/90	0.40	0.9	1.8	29.5
476.2	08/06/91	0.50	1.0	1.9	30.6
476.2	08/04/92	0.60	0.7	1.5	29.8
476.2	08/03/93	0.80	0.6	1.5	29.0
476.2	08/09/95	0.30	0.7	1.2	28.4
476.2	08/04/97	0.5	0.8		
478.0	08/05/70	0.45	1.7	-	28.6
478.0	09/16/71	0.97	0.5	-	26.7
478.0	09/21/72	0.97	0.5	-	28.5
478.0	09/20/73	0.97	-	4.0	23.7
478.0	09/18/74	0.97	0.5	1.8	25.0
478.0	09/18/75	0.97	1.4	4.3	23.6
478.0	09/16/76	0.56	1.2	2.4	23.0
478.0	08/30/77	0.35	1.0	2.2	27.0
478.0	08/24/78	0.58	0.9	2.2	30.0
478.0	08/23/79	0.43	1.2	2.5	28.5
478.0	08/21/80	0.65	1.3	2.9	31.0
478.0	09/03/81	0.61	1.3	2.8	27.5
478.0	09/02/82	0.43	1.0	2.3	28.0
478.0	09/01/83	0.44	1.0	2.6	28.5
478.0	08/29/84	0.44	1.1	2.5	28.0

Table 1 (Continued)

Tennessee River mile	Date	Area (hectares)	Mean depth (m)	Maximum depth (m)	Surface temperature (°C)
478.0	08/29/85	0.45	1.0	2.4	28.5
478.0	08/28/86	0.45	0.8	1.9	28.6
478.0	08/13/87	0.40	1.2	2.2	29.8
478.0	08/25/88	0.40	1.3	2.8	29.4
478.0	08/17/89	0.50	1.2	3.9	29.3
478.0	08/16/90	0.60	1.4	3.1	29.3
478.0	08/08/91	0.50	1.2	2.8	30.7
478.0	08/11/92	0.70	1.1	2.6	31.2
478.0	08/05/93	0.50	1.2	3.4	29.0
478.0	08/07/95	0.60	1.2	2.9	29.5
478.0	08/06/97	0.70	1.4		
484.7	07/06/70	0.49	1.6	-	26.0
495.0	07/10/70	0.61	1.3	-	-
495.0	09/23/71	0.93	1.4	-	24.4
495.0	09/28/72	0.93	1.4	-	-
495.0	09/27/73	0.93	-	4.0	24.6
495.0	09/23/74	0.93	1.4	3.7	22.0
495.0	09/23/75	0.93	1.4	3.7	22.8
495.0	09/21/76	0.47	1.2	3.7	22.2
495.0	09/13/77	0.39	1.8	5.2	23.4
495.0	08/31/78	0.46	1.3	3.4	29.7
495.0	09/05/79	0.52	1.4	3.7	27.5
495.0	08/26/80	0.58	1.6	3.7	30.0
495.0	08/20/81	0.46	1.2	3.1	24.0
495.0	08/19/82	0.46	1.4	3.4	29.0
495.0	08/18/83	0.41	1.2	3.1	28.5
495.0	08/16/84	0.41	1.4	3.2	27.0
495.0	08/22/85	0.44	1.1	3.1	29.0
495.0	09/09/86	0.44	1.1	3.0	25.7
495.1	08/27/87	0.40	0.7	1.5	28.7
495.1	08/11/88	0.40	1.0	1.9	28.3
495.1	08/10/89	0.40	0.8	2.6	27.0
495.1	08/09/90	0.50	0.9	1.8	26.5
495.1	08/03/91	0.60	0.9	1.9	27.7
495.1	08/06/92	0.60	0.6	1.5	27.8
495.1	08/10/93	0.50	0.6	1.5	29.0
495.1	08/14/95	0.40	0.8	1.5	31.1
495.1	08/11/97	0.40	0.9		
HRM 1.2**	07/27/70	0.55	1.2	3.4	25.3
HRM 2.5**	07/28/70	0.96	1.3	-	29.8
HRM 3.5**	07/29/70	0.69	1.2	2.5	30.7
505.4	07/14/70	0.18	1.3	-	27.5
506.0	07/13/70	0.28	1.1	-	28.0
507.3	07/14/70	0.27	1.0	2.1	27.3
508.0	09/20/71	0.43	0.9	-	23.9
508.0	09/27/72	0.43	-	-	-

Table 1 (Continued)

Tennessee River mile	Date	Area (hectares)	Mean depth (m)	Maximum depth (m)	Surface temperature (°C)
508.0	09/25/73	0.43	-	2.0	24.9
508.0	09/25/74	0.43	0.9	3.1	21.0
508.0	09/25/75	0.42	0.9	3.1	22.3
508.0	09/23/76	0.43	0.9	2.0	22.2
508.0	09/15/77	0.43	0.9	2.2	23.3
508.0	08/29/78	0.57	1.0	1.8	30.5
508.0	08/23/79	0.43	0.9	1.9	27.3
508.0	08/28/80	0.51	0.9	1.7	30.0
508.0	08/18/81	0.48	1.0	1.9	27.0
508.0	08/17/82	0.46	0.9	1.8	27.0
508.0	08/16/83	0.40	0.8	1.2	29.0
508.0	08/13/84	0.42	1.0	1.8	28.5
508.0	08/20/85	0.44	0.8	1.7	30.0
508.0	08/12/86	0.44	0.7	1.4	27.4
508.0	08/25/87	0.40	0.8	1.7	27.4
508.0	08/09/88	0.40	1.2	2.1	29.4
508.0	08/08/89	0.50	1.0	3.3	25.9
508.0	08/07/90	0.50	1.1	1.9	27.7
508.0	08/15/91	0.40	1.0	1.9	26.5
508.0	08/13/92	0.40	0.9	1.7	27.5
508.0	08/12/93	0.50	1.0	2.2	27.0
508.0	08/16/95	0.40	0.8	1.5	26.3
508.0	08/13/97	0.50	0.9		
524.6	09/08/76	0.33	0.3	1.0	25.2
524.6	09/07/77	0.33	0.5	1.2	26.6
524.6	09/29/78	0.29	0.4	0.6	31.0
524.6	08/21/79	0.38	0.6	1.2	30.0
524.6	09/03/80	0.48	0.4	0.8	27.0
524.6	09/09/81	0.32	0.2	0.5	-
524.6	09/08/82	0.44	0.4	0.9	26.5
524.6	09/08/83	0.43	0.4	0.8	26.5
524.6	09/04/84	0.45	0.5	1.0	23.0
524.6	09/05/85	0.47	0.4	0.8	30.0
524.6	09/11/86	0.45	0.4	0.8	26.5
524.6	09/03/87	0.40	0.4	0.8	27.0
524.6	09/01/88	0.50	0.7	1.2	27.5
524.6	08/21/90	0.50	0.6	1.2	28.3
524.6	08/20/91	0.60	0.6	1.2	27.1
524.6	08/18/92	0.50	0.5	0.9	27.2
524.6	08/17/93	0.50	0.7	1.5	30.0
524.6	08/22/95	0.50	0.5	0.9	25.2
524.6	08/19/97	2.60	0.9		

**Hiwassee River Mile (confluence at TRM 500.0)

Table 2. Size classes (millimeters) used in fish inventories.

	Young-of-Year	Intermediate	Harvestable
GAME			
White bass	1-150	151-200	201 and over
Yellow bass	1-150	151-200	201 and over
Striped bass	1-175	176-375	376 and over
Rock bass	1-75	76-125	126 and over
Bluegill	1-75	76-125	126 and over
Other sunfish	1-75	76-125	126 and over
Smallmouth bass	1-100	101-200	201 and over
Spotted bass	1-100	101-200	201 and over
Largemouth bass	1-100	101-225	226 and over
Crappie	1-75	76-175	176 and over
Yellow perch	1-75	76-125	126 and over
Sauger	1-200	201-275	276 and over
Walleye	1-200	201-275	276 and over
COMMERCIAL			
Lamprey	1-50	51-125	126 and over
Paddlefish	1-300	301-450	451 and over
Gar	1-300	301-475	476 and over
Bowfin	1-200	201-300	301 and over
Skipjack herring	1-150	151-275	276 and over
Mooneye	1-150	151-300	301 and over
Grass pickerel	1-175	176-300	301 and over
Carp	1-200	201-300	301 and over
Goldfish	1-150	151-250	251 and over
Buffalo	1-200	201-300	301 and over
Carpsuckers	1-175	176-250	251 and over
Redhorses	1-175	176-250	251 and over
Other suckers	1-175	176-250	251 and over
Blue catfish	1-125	126-225	226 and over
Channel catfish	1-125	126-225	226 and over
Bullheads	1-100	101-175	176 and over
Flathead catfish	1-125	126-275	276 and over
Freshwater drum	1-125	126-200	201 and over
FORAGE			
Gizzard shad	1-125	-	126 and over
Threadfin shad	1-125	-	126 and over
Orangespotted sunfish	1-50	51-75	76 and over
Miscellaneous forage fish	all sizes	-	-

Table 3. Common and scientific names of fish collected in rotenone samples from Chickamauga Reservoir, 1997.

Common Name	Scientific Name
GAME	
White bass	*Morone chrysops*
Yellow bass	*Morone mississippiensis*
Striped bass	*Morone saxatilis*
Warmouth	*Lepomis gulosus*
Redbreast sunfish	*Lepomis auritus*
Green sunfish	*Lepomis cyanellus*
Bluegill	*Lepomis macrochirus*
Longear sunfish	*Lepomis megalotis*
Redear sunfish	*Lepomis microlophus*
Smallmouth bass	*Micropterus dolomieu*
Spotted bass	*Micropterus punctulatus*
Largemouth bass	*Micropterus salmoides*
White crappie	*Pomoxis annularis*
Black crappie	*Pomoxis nigromaculatus*
Yellow perch	*Perca flavescens*
Sauger	*Stizostedion canadense*
ROUGH	
Spotted gar	*Lepisosteus oculatus*
Longnose gar	*Lepisosteus osseus*
Skipjack herring	*Alosa chrysochloris*
Smallmouth buffalo	*Ictiobus bubalus*
Black buffalo	*Ictiobus niger*
Spotted sucker	*Minytrema melanops*
Golden redhorse	*Moxostoma erythrurum*
Yellow bullhead	*Ameiurus natalis*
Brown bullhead	*Ameiurus nebulosus*
Channel catfish	*Ictalurus punctatus*
Flathead catfish	*Pylodictis olivaris*
Freshwater drum	*Aplodinotus grunniens*
FORAGE	
Gizzard shad	*Dorosoma cepedianum*
Threadfin shad	*Dorosoma petenense*
Central stoneroller	*Campostoma anomalum*
Golden shiner	*Notemigonus crysoleucas*
Emerald shiner	*Notropis atherinoides*
Ghost shiner	*Notropis buchanani*
Spotfin shiner	*Cyprinella spiloptera*
Bluntnose minnow	*Pimephales notatus*
Bullhead minnow	*Pimephales vigilax*
Blackspotted topminnow	*Fundulus olivaceus*
Western mosquitofish	*Gambusia affinis*
Rainbow darter	*Etheostoma caeruleum*
Stripetail darter	*Etheostoma kennicotti*
Logperch	*Percina caprodes*
Brook silverside	*Labidesthes sicculus*

Table 4. List of fish species collected in cove rotenone samples from Chickamauga Reservoir, 1970-1997.

Species	Common Name	Fish Group
Icthyomyzon castaneus	Chestnut lamprey	Commercial
Polyodon spathula	Paddlefish	Commercial
Lepisosteus oculatus	Spotted gar	Commercial
Lepisosteus osseus	Longnose gar	Commercial
Lepisosteus platostomus	Shortnose gar	Commercial
Hiodon tergisus	Mooneye	Commercial
Alosa chrysochloris	Skipjack herring	Commercial
Dorosoma cepedianum	Gizzard shad	Forage
Dorosoma petenense	Threadfin shad	Forage
Dorosoma sp.	Unidentified shad	Forage
Mixed dorosoma sp.	Mixed shad	Forage
Campostoma anomalum	Central stoneroller	Forage
Carassius auritus	Goldfish	Forage
Cyprinella galactura	Whitetail shiner	Forage
Cyprinella spiloptera	Spotfin shiner	Forage
Cyprinella whipplei	Steelcolor shiner	Forage
Cyprinus carpio	Carp	Commercial
Luxilus chrysocephalus	Striped shiner	Forage
Luxilus cornutus	Common shiner	Forage
Macrhybopsis storeriana	Silver chub	Forage
Notemigonus crysoleucas	Golden shiner	Forage
Notropis atherinoides	Emerald shiner	Forage
Notropis buchanani	Ghost shiner	Forage
Notropis volucellus	Mimic shiner	Forage
Notropis sp.	Unidentified shiner	Forage
Opsopoeodus emiliae	Pugnose minnow	Forage
Pimephales notatus	Bluntnose minnow	Forage
Pimephales vigilax	Bullhead minnow	Forage
Pimephales promelas	Fathead minnow	Forage
Pimephales sp.	Unidentified minnow	Forage
Cyprinidae	Mixed & unidentified minnows	Forage
Cyprinidae	Minnow, carp	Forage
Carpiodes carpio	River carpsucker	Commercial
Carpiodes cyprinus	Quillback carpsucker	Commercial
Carpiodes sp.	Unidentified carpsucker	Commercial
Catostomus commersoni	White sucker	Commercial
Hypentelium nigricans	Northern hog sucker	Commercial
Ictiobus bubalus	Smallmouth buffalo	Commercial
Ictiobus cyprinellus	Bigmouth buffalo	Commercial
Ictiobus niger	Black buffalo	Commercial
Ictiobus sp.	Unidentified buffalo	Commercial

Table 4 (Continued)

Species	Common Name	Fish Group
Minytrema melanops	Spotted sucker	Commercial
Moxostoma carinatum	River redhorse	Commercial
Moxostoma duquesnei	Black redhorse	Commercial
Moxostoma erythrurum	Golden redhorse	Commercial
Moxostoma macrolepidotum	Shorthead redhorse	Commercial
Moxostoma sp.	Unidentified redhorse	Commercial
Ictalurus furcatus	Blue catfish	Commercial
Ameiurus melas	Black bullhead	Commercial
Ameiurus natalis	Yellow bullhead	Commercial
Ameiurus nebulosus	Brown bullhead	Commercial
Ictalurus punctatus	Channel catfish	Commercial
Pylodictis olivaris	Flathead catfish	Commercial
Fundulus notatus	Blackstripe topminnow	Forage
Fundulus olivaceus	Blackspotted topminnow	Forage
Cyprinodontidae	Killifish	Forage
Gambusia holbrooki	Eastern mosquitofish	Forage
Gambusia affinis	Western mosquitofish	Forage
Labidesthes sicculus	Brook silverside	Forage
Morone chrysops	White bass	Game
Morone mississippiensis	Yellow bass	Game
Morone saxatilis	Striped bass	Game
Hybrid Morone	Hybrid White and Stripe bass	Game
Morone sp.	Unidentified temperature bass	Game
Ambloplites rupestris	Rock bass	Game
Lepomis auritus	Redbreast sunfish	Game
Lepomis cyanellus	Green sunfish	Game
Lepomis gulosus	Warmouth	Game
Lepomis macrochirus	Bluegill	Game
Lepomis megalotis	Longear sunfish	Game
Lepomis microlophus	Redear sunfish	Game
Lepomis sp.	Hybrid sunfish	Game
Lepomis sp.	Unidentified sunfish	Game
Micropterus dolomieu	Smallmouth bass	Game
Micropterus punctulatus	Spotted bass	Game
Micropterus salmoides	Largemouth bass	Game
Pomoxis annularis	White crappie	Game
Pomoxis nigromaculatus	Black crappie	Game
Pomoxis sp.	unidentified crappie	Game
Etheostoma asprigene	Mud darter	Forage
Etheostoma caeruleum	Rainbow darter	Forage
Etheostoma kennicotti	Stripetail darter	Forage
Etheostoma spectabile	Orangethroat darter	Forage
Etheostoma sp.	Unidentified darter	Forage
Percidae	Unidentified darter	Forage
Perca flavescens	Yellow perch	Game

Table 4 (Continued)

Species	Common Name	Fish Group
Percina caprodes	Logperch	Forage
Stizostedion canadense	Sauger	Game
Aplodinotus grunniens	Freshwater drum	Commercial

Table 5. Number of coves sampled and mean annual standing stock (no/ha, kg/ha) of all young, intermediate, and harvestable size fish collected in cove rotenone samples from Chickamauga Reservoir, 1970-1999.

		Young of Year		Intermediate		Harvestable		Total	
Year	Number Samples	no/ha	kg/ha	no/ha	kg/ha	no/ha	kg/ha	no/ha	kg/ha
1970	12	7,353	12.61	534	24.80	931	182.49	8,819	219.91
1971	5	6,220	15.38	789	88.17	1,023	205.04	8,032	308.60
1972	4	12,872	63.06	932	30.96	1,394	271.21	15,199	365.23
1973	4	13,093	72.52	955	36.44	1,572	290.20	15,619	399.16
1974	4	9,737	34.23	673	21.98	1,263	194.91	11,673	251.13
1975	4	12,684	37.18	443	14.94	1,364	187.09	14,491	239.21
1976	5	14,662	37.20	1,179	26.39	1,400	272.84	17,241	336.43
1977	5	33,121	96.18	1,164	26.41	1,441	223.97	35,727	346.56
1978	5	19,883	31.70	960	19.98	2,584	184.51	23,428	236.19
1979	5	17,973	22.91	1,375	27.41	2,872	209.04	22,220	259.36
1980	8	26,885	37.01	564	11.92	1,213	153.16	28,662	202.09
1981	5	53,515	66.21	1,590	34.14	2,278	327.68	57,384	428.03
1982	5	33,655	56.25	977	24.36	1,919	209.92	36,551	290.53
1983	5	46,500	70.72	1,210	26.61	2,513	344.07	50,223	441.40
1984	5	24,826	43.44	927	22.47	3,542	383.43	29,296	449.34
1985	5	43,064	143.49	986	26.88	2,361	357.54	46,411	527.91
1986	5	33,393	63.82	962	30.37	1,832	251.51	36,188	345.70
1987	5	43,547	89.91	1,420	26.96	1,677	233.85	46,644	350.72
1988	5	55,086	109.33	1,214	23.59	1,350	204.04	57,650	336.96
1989	5	17,587	70.84	2,164	39.49	1,758	242.16	21,509	352.49
1990	5	40,708	79.78	1,466	32.00	1,836	241.14	44,010	352.92
1991	5	25,579	51.66	1,504	31.56	1,667	211.69	28,750	294.91
1992	5	26,071	50.50	1,292	28.45	990	133.37	28,354	212.33
1993	5	51,921	66.37	1,093	21.69	1,301	179.09	54,315	267.15
1995	5	33,849	58.18	926	20.06	1,106	153.62	35,881	231.85
1997	5	36,678	42.98	1,541	32.74	1,716	224.06	39,936	299.78
1999	5	13,151	32.18	1,880	29.71	1,411	236.47	16,442	298.36
All Years*	159	23,802	48.94	999	28.99	1,544	215.50	26,344	293.42

- Mean for all years.

Table 6. Percent species composition of cove rotenone samples, Chickamauga Reservoir, 1999.

Species	Percent of Total Numbers	Percent of Total Biomass
Threadfin shad	15.89	1.57
Bluegill	48.04	14.25
Gizzard shad	7.92	49.42
Bluntnose minnow	5.56	0.44
Bullhead minnow	4.56	0.18
Golden shiner	3.59	2.10
Redear sunfish	3.65	0.73
Freshwater drum	1.60	11.12
Largemouth bass	1.50	1.71
Emerald shiner	0.82	0.12
Redbreast sunfish	3.65	0.73
Warmouth	2.21	0.72
Yellow bass	0.32	0.34
Logperch	0.81	0.22
Brook silverside	2.13	0.09
Western mosquitofish	1.41	0.05
Yellow perch	1.25	0.45
Ghost shiner	0.24	T
Green sunfish	0.39	0.13
Black crappie	0.04	0.11
Spotted sucker	0.16	3.62
Spotfin shiner	0.10	0.03
Longear sunfish	5.96	0.25
Smallmouth bass	0.12	0.15
White crappie	T	0.05
Skipjack herring	0.05	0.42
Spotted bass	0.25	0.22
Smallmouth buffalo	1.06	0.42
Spotted gar	0.01	0.16
Brown bullhead	0.01	0.60
Longnose gar	0.02	0.01
Northern Hogsucker	T	0.03
Sauger	T	0.11
Blue Catfish	T	0.01
Flathead catfish	0.02	0.38
Channel catfish	0.06	3.17
Central stoneroller	T	T
Golden redhorse	0.02	0.30
Rainbow darter	T	T
Stripetail darter	T	T
White bass	0.01	0.02
Blackspotted topminnow	T	T
Yellow bullhead	T	0.01
Black buffalo	T	0.70
Striped bass	T	T
	100.00	100.00

Note: T = less than 0.01 percent.

Table 7. Percent size distribution of major fish groups, Chickamauga Reservoir, 1997.

	Percent by Number			
	Young-of-Year	Intermediate	Harvestable	Total
Game	31.1	3.4	0.9	35.4
Rough	0.2	0.5	0.5	1.1
Forage	60.5	0.0	2.9	63.5
Total	91.8	3.9	4.3	100.0

	Percent by Weight			
	Young-of-Year	Intermediate	Harvestable	Total
Game	5.0	7.4	10.4	22.8
Rough	0.2	3.6	15.1	18.8
Forage	9.1	0.0	49.2	58.4
Total	14.3	10.9	74.7	100.0

Table 8. Mean annual standing stock (no/ha and kg/ha) of game, commercial, and forage fish collected in cove rotenone samples from Chickamauga Reservoir, 1970-1997.

	Game Fish		Commercial Fish		Forage Fish	
Year	no/ha	kg/ha	no/ha	kg/ha	no/ha	kg/ha
1970	2,288.22	27.42	548.18	109.55	5,982.24	82.93
1971	2,778.21	41.27	421.52	165.43	5,404.62	76.57
1972	3,764.61	58.53	769.14	140.99	10,665.19	165.72
1973	4,427.42	59.13	979.55	158.12	10,212.52	181.92
1974	2,637.81	33.32	396.25	79.74	8,638.84	138.07
1975	5,489.16	37.06	269.92	78.42	8,731.57	123.73
1976	8,624.39	57.53	474.81	147.02	8,141.71	131.88
1977	22,477.22	72.79	443.34	94.65	12,805.99	179.13
1978	18,340.44	57.57	228.17	52.31	4,859.30	126.30
1979	18,590.09	69.87	281.76	92.03	3,347.66	97.46
1980	33,026.90	80.19	225.13	66.67	2,728.00	40.51
1981	51,074.50	116.51	504.41	131.19	5,804.83	180.33
1982	24,734.58	67.64	451.39	57.10	11,365.07	165.79
1983	33,984.29	75.73	486.75	93.60	15,751.63	272.05
1984	18,575.99	60.79	359.68	42.90	10,360.50	345.60
1985	14,844.74	62.58	473.53	100.18	31,092.40	365.15
1986	21,753.26	71.53	203.90	42.07	14,230.35	232.10
1987	23,034.26	75.00	405.80	48.20	23,203.70	227.50
1988	25,666.93	81.21	325.70	38.81	31,657.37	216.94
1989	7,658.18	74.71	352.17	54.55	13,498.53	223.23
1990	12,174.93	87.39	717.88	73.43	31,117.26	192.10
1991	8,359.70	69.90	472.38	61.36	19,918.10	163.65
1992	7,653.81	55.05	420.41	48.47	20,279.52	108.80
1993	9,740.04	51.95	338.54	44.41	44,236.74	170.78
1995	17,786.86	63.08	368.75	43.91	17,725.65	124.87
1997	14,132.90	68.3	451.50	56.50	39,935.50	299.80

Table 9. Mean number and weight (kg) of fish per hectare in five cove rotenone samples from Chickamauga Reservoir, 1997

Species	Young-of-Year Number	Young-of-Year Weight	Intermediate Number	Intermediate Weight	Harvestable Number	Harvestable Weight	Total Number	Total Weight
GAME								
White Bass	0.66	T	-	-	-	-	0.66	T
Yellow bass	211.51	1.12	2.13	0.16	1.58	0.20	215.22	1.48
Striped Bass	0.29	0.01	-	-	-	-	0.29	0.01
Warmouth	208.86	0.22	27.85	0.53	12.34	1.07	249.05	1.82
Redbreast sunfish	305.54	0.31	9.42	0.16	8.94	0.61	323.91	1.08
Green sunfish	47.85	0.08	7.59	0.10	-	-	55.43	0.17
Bluegill	11124.52	11.38	920.94	13.24	169.64	10.49	12215.10	35.11
Longear sunfish	2.46	0.01	22.45	0.45	2.67	0.12	27.58	0.58
Redear sunfish	85.68	0.17	288.35	4.79	93.37	8.77	467.40	13.73
Smallmouth bass	21.24	0.09	2.99	0.19	1.74	0.59	25.96	0.87
Spotted bass	7.17	0.03	3.58	0.21	2.08	0.44	12.83	0.68
Largemouth bass	294.77	1.35	29.54	1.86	15.99	6.20	340.29	9.41
White crappie	22.25	0.05	3.27	0.02	-	-	25.53	0.07
Black crappie	40.31	0.11	4.32	0.05	2.62	0.45	47.25	0.60
Yellow perch	49.68	0.13	36.34	0.22	36.71	1.32	122.73	1.67
Sauger	-	-	0.43	0.06	3.20	0.91	3.63	0.97
Group total	12422.80	15.04	1359.18	22.05	350.88	31.18	14132.86	68.27
COMMERCIAL								
Spotted gar	1.76	0.03	-	-	5.42	5.51	7.18	5.54
Longnose gar	3.62	0.02	0.66	0.05	-	-	4.28	0.06
Skipjack herring	22.63	0.24	0.85	0.03	0.43	0.08	23.91	0.35
Common carp	-	-	-	-	-	-	-	-
Smallmouth buffalo	4.73	0.05	5.45	1.24	0.88	1.89	11.06	3.18
Black buffalo	-	-	-	-	0.36	2.11	0.36	2.11
Spotted sucker	21.52	0.10	3.27	0.45	18.48	7.85	43.27	8.40
Golden redhorse	0.59	0.02	0.49	0.03	-	-	1.08	0.05
Yellow bullhead	-	-	-	-	0.43	0.08	0.43	0.08
Brown bullhead	0.36	T	-	-	4.36	1.80	4.73	1.80
Channel catfish	0.29	T	-	-	2.24	1.65	2.53	1.65
Flathead catfish	1.00	T	0.59	0.06	1.15	0.56	2.74	0.63
Freshwater drum	24.31	0.09	170.79	8.84	154.83	23.72	349.92	32.65
Group total	80.81	0.55	182.10	10.69	188.57	45.24	451.48	56.48

Table 9 (Continued)

Species	Young-of-Year Number	Young-of-Year Weight	Intermediate Number	Intermediate Weight	Harvestable Number	Harvestable Weight	Total Number	Total Weight
FORAGE								
Gizzard shad	2672.63	8.54	-	-	1176.74	147.64	3849.37	156.18
Threadfin shad	15818.51	12.10	-	-	-	-	15818.51	12.10
Central stoneroller	2.25	0.01	-	-	-	-	2.25	0.01
Golden shiner	771.45	3.53	-	-	-	-	771.45	3.53
Emerald shiner	327.62	0.37	-	-	-	-	327.62	0.37
Spotfin shiner	40.88	0.10	-	-	-	-	40.88	0.10
Ghost shiner	94.54	0.02	-	-	-	-	94.54	0.02
Bluntnose minnow	2221.28	1.32	-	-	-	-	2221.28	1.32
Bullhead minnow	1822.45	0.53	-	-	-	-	1822.45	0.53
Blackspot.	0.49	T	-	-	-	-	0.49	T
Western	126.79	0.12	-	-	-	-	126.79	0.12
Rainbow darter	0.90	T	-	-	-	-	0.90	T
Logperch	149.19	0.62	-	-	-	-	146.19	0.62
Brook silverside	127.62	0.11	-	-	-	-	127.62	0.11
Stripetail darter	0.83	T	-	-	-	-	0.83	T
Group total	24174.43	27.39	0.00	0.00	1176.74	147.64	25351.17	175.03
Final total	36678.04	42.98	1541.28	32.74	1716.19	224.06	39935.51	299.78

Table 10. Listing of important species collected in cove rotenone samples from Chickamauga Reservoir, 1970-1997.

Common Name	Scientific Name
GAME	
White bass	*Morone chrysops*
Yellow bass	*Morone mississippiensis*
Warmouth	*Lepomis gulosus*
Bluegill	*Lepomis macrochirus*
Redear sunfish	*Lepomis microlophus*
Largemouth bass	*Micropterus salmoides*
White crappie	*Pomoxis annularis*
Black crappie	*Pomoxis nigromaculatus*
Yellow perch	*Perca flavescens*
Sauger	*Stizostedion canadense*
COMMERCIAL	
Carp	*Cyprinus carpio*
Smallmouth buffalo	*Ictiobus bubalus*
Spotted sucker	*Minytrema melanops*
Channel catfish	*Ictalurus punctatus*
Flathead catfish	*Pylodictis olivaris*
Freshwater drum	*Aplodinotus grunniens*
FORAGE	
Gizzard shad	*Dorosoma cepedianum*
Threadfin shad	*Dorosoma petenense*
Golden shiner	*Notemigonus crysoleucas*
Bullhead minnow	*Pimephales vigilax*

Table 11. Results of linear regression analyses indicating significant trends in numbers and/or biomass by size group of important fish species collected in cove rotenone samples from Chickamauga Reservoir, 1970-97.

Number per Hectare									
	Young of Year			Intermediate			Harvestable		
Species	**Slope**	**F-Value**	**PR F**	**Slope**	**F-Value**	**PR F**	**Slope**	**F-Value**	**PR F**
Black crappie	0.10	58.35	0.0000	0.04	43.17	0.0000	0.01	10.64	0.0033
Bluegill	0.02	5.87	0.0234	0.02	12.96	0.0014	0.01	2.34	0.1392
Bullhead minnow	0.06	8.82	0.0067	0.00	-	-	0.00	-	-
Channel catfish	-0.02	10.93	0.0030	-0.03	8.85	0.0066	-0.03	8.57	0.0074
Common carp	0.00	0.03	0.8705	0.00	0.34	0.5665	-0.04	37.41	0.0000
Flathead catfish	-0.01	0.86	0.3639	-0.01	3.69	0.0668	-0.01	2.02	0.1681
Freshwater drum	-0.02	1.50	0.2330	0.00	0.06	0.8083	0.01	4.28	0.0495
Gizzard shad	0.08	12.93	0.0015	0.00	-	-	0.00	0.01	0.9098
Golden shiner	0.09	54.73	0.0000	0.00	-	-	0.00	-	-
Largemouth bass	0.02	6.48	0.0178	0.00	0.01	0.9292	0.00	0.01	0.9073
Redear sunfish	0.03	2.28	0.1441	0.04	26.36	0.0000	0.01	11.78	0.0022
Sauger	-0.01	3.18	0.0871	-0.01	4.43	0.0461	0.00	0.24	0.6261
Smallmouth buffalo	0.01	0.87	0.3603	-0.02	3.98	0.0577	0.04	37.22	0.0000
Spotted sucker	-0.04	8.45	0.0077	-0.01	0.58	0.4528	0.00	0.34	0.5626
Threadfin shad	0.04	6.20	0.0201	0.00	-	-	-0.03	3.20	0.0861
Warmouth	0.05	9.83	0.0045	0.03	16.56	0.0004	0.03	9.92	0.0043
White bass	-0.01	0.64	0.4308	0.00	0.06	0.8070	0.00	0.20	0.6606
White crappie	0.01	0.37	0.5508	-0.02	4.25	0.0503	-0.06	88.86	0.0000
Yellow bass	0.06	19.72	0.0002	0.01	0.47	0.4994	0.01	1.10	0.3052
Yellow perch	0.07	16,86	0.0004	0.03	14.04	0.0010	0.04	13.90	0.0010
Weight per Hectare									
Black crappie	0.00	25.86	0.0000	0.00	12.37	0.0018	0.00	6.05	0.0215
Bluegill	0.01	3.32	0.0807	0.01	3.63	0.0689	0.01	3.40	0.0777
Bullhead minnow	0.00	0.22	0.6454	0.00	-	-	0.00	-	-
Channel catfish	0.00	7.03	0.0140	-0.01	10.20	0.0039	-0.02	3.67	0.0675
Common carp	0.00	0.01	0.9105	0.00	0.27	0.6076	-0.04	27.77	0.0000
Flathead catfish	0.00	0.40	0.5306	0.00	7.40	0.0119	0.00	0.72	0.4030
Freshwater drum	-0.01	6.27	0.0195	0.00	0.40	0.5343	0.00	1.42	0.2445
Gizzard shad	0.03	7.96	0.0094	0.00	-	-	0.01	1.88	0.1834
Golden shiner	0.04	47.79	0.0000	0.00	-	-	0.00	-	-
Largemouth bass	0.01	3.43	0.0764	0.00	1.13	0.2985	0.00	0.52	0.4787
Redear sunfish	0.01	0.74	0.3997	0.02	22.77	0.0001	0.00	1.30	0.2652
Sauger	0.00	2.99	0.0965	0.00	3.36	0.0794	0.00	0.01	0.9416
Smallmouth buffalo	0.00	0.13	0.7266	-0.02	3.50	0.0735	-0.05	56.09	0.0000
Spotted sucker	-0.01	7.35	0.0122	0.00	1.15	0.2943	0.00	0.02	0.8797
Threadfin shad	0.01	1.17	0.2897	0.00	-	-	0.01	2.43	0.1319
Warmouth	0.01	2.08	0.1626	0.01	9.22	0.0057	0.01	7.87	0.0098
White bass	0.00	0.24	0.6254	0.00	0.34	0.5679	0.00	0.58	0.4525
White crappie	0.00	0.13	0.7172	-0.01	16.17	0.0005	-0.03	76.09	0.0000
Yellow bass	0.01	8.74	0.0069	0.00	0.06	0.8123	0.00	0.63	0.4361
Yellow perch	0.00	4.95	0.0357	0.00	6.77	0.0156	0.01	9.39	0.0053

Table 12. Numbers and biomass (kg) per hectare for young-of-year and adult gizzard shad in cove rotenone samples, Chickamauga Reservoir, 1970-1997.

	Young-of-Year		Adult		Total	
	Numbers	Biomass	Numbers	Biomass	Numbers	Biomass
1970	1,129.74	2.24	645.34	75.49	1,775.08	77.73
1971	329.03	2.27	561.91	65.51	890.94	67.78
1972	0.52	0.01	836.35	119.52	836.87	119.53
1973	0.65	0.01	1,034.97	127.41	1,035.63	127.42
1974	5.23	0.07	912.33	107.61	917.56	107.69
1975	109.44	1.44	946.20	90.71	1,055.64	92.15
1976	1,140.28	9.83	844.93	105.62	1,985.21	115.45
1977	8,624.47	44.57	928.02	112.60	9,552.49	157.17
1978	1,894.39	7.74	2,177.57	115.17	4,071.96	122.92
1979	54.15	0.68	2,315.58	92.12	2,369.73	92.80
1980	953.30	2.63	503.02	34.73	1,456.32	37.36
1981	507.50	1.73	1,484.11	164.41	1,991.61	166.14
1982	7,913.77	20.23	1,530.03	140.19	9,443.80	161.89
1983	1,994.09	9.93	1,981.22	232.46	3,975.31	242.39
1984	3,606.31	8.79	3,192.03	329.83	6,798.33	338.63
1985	3,873.29	29.29	1,898.52	239.89	5,771.81	269.18
1986	5,204.10	22.00	1,528.00	195.64	6,732.10	217.64
1987	7,808.70	32.96	1,313.05	168.40	9,121.76	201.35
1988	7,564.02	26.24	850.02	137.41	8,414.04	163.65
1989	7,371.05	44.18	1,157.27	161.11	8,528.32	205.29
1990	9,751.56	13.40	922.59	130.63	10,674.06	144.04
1991	1,676.55	7.52	1,051.41	125.07	2,727.96	132.58
1992	1,412.45	2.07	456.07	67.63	1,868.52	69.70
1993	16,948.53	19.03	863.27	118.11	17,811.81	137.14
1995	614.05	3.17	633.55	93.00	1,247.60	96.16
1997	2,672.63	8.54	1,176.74	147.64	3,849.37	156.18

*No intermediate size class considered.

Table 13. Numbers and biomass (kg) per hectare for young-of-year and adult threadfin shad in cove rotenone samples, Chickamauga Reservoir, 1970-1997.

	Young-of-Year		Adult		Total	
	Numbers	Biomass	Numbers	Biomass	Numbers	Biomass
1970	2,732.68	2.94	0.31	0.01	2,732.99	2.95
1971	3,351.72	7.19	0.00	0.00	3,351.72	7.19
1972	8,094.18	41.72	52.33	1.46	8,146.51	43.18
1973	7,248.00	50.51	6.21	0.20	7,254.21	50.72
1974	6,916.67	28.02	3.10	0.13	6,919.78	28.16
1975	3,906.97	23.05	122.96	4.07	4,029.94	27.12
1976	3,401.95	11.75	0.00	0.00	3,401.95	11.75
1977	1,566.42	17.31	0.00	0.00	1,566.42	17.31
1978	53.10	0.34	0.00	0.00	53.10	0.34
1979	363.60	0.80	0.47	0.01	364.06	0.81
1980	448.09	0.79	0.00	0.00	448.09	0.79
1981	3,294.25	8.29	0.00	0.00	3,294.25	8.29
1982	368.97	1.00	1.43	0.03	370.40	1.03
1983	8,838.26	23.67	0.00	0.00	8,838.26	23.67
1984	866.60	2.13	0.00	0.00	866.60	2.13
1985	22,913.04	92.19	0.48	0.02	22,913.52	92.21
1986	4,912.88	8.64	0.00	0.00	4,912.88	8.64
1987	12,454.17	18.07	0.00	0.00	12,454.17	18.07
1988	21,816.41	43.31	0.00	0.00	21,816.41	43.31
1989	4,567.64	11.87	27.83	0.64	4,595.47	12.50
1990	17,713.68	32.76	0.00	0.00	17,713.68	32.76
1991	15,574.39	27.10	0.32	0.01	15,574.72	27.11
1992	15,583.03	27.99	0.00	0.00	15,583.03	27.99
1993	23,213.22	22.40	0.00	0.00	23,213.22	22.40
1995	10,081.32	16.55	0.00	0.00	10,081.32	16.55
1997	15,818.51	12.10	0.00	0.00	15,818.51	12.10

*No intermediate size class considered.

Table 14. Numbers and biomass (kg) per hectare for each size group of carp in cove rotenone samples, Chickamauga Reservoir, 1970-1997.

	Young-of-Year		Intermediate		Adult		Total	
	Numbers	Biomass	Numbers	Biomass	Numbers	Biomass	Numbers	Biomass
1970	0.84	0.00	0.15	0.06	4.77	7.04	5.77	7.09
1971	0.00	0.00	0.20	0.05	27.46	53.85	27.66	53.89
1972	0.00	0.00	0.00	0.00	14.66	31.59	14.66	31.59
1973	0.00	0.00	0.00	0.00	21.49	48.42	21.49	48.42
1974	0.00	0.00	0.52	0.09	8.28	20.18	8.79	20.27
1975	0.00	0.00	0.00	0.00	12.65	28.93	12.65	28.93
1976	0.00	0.00	0.22	0.05	22.16	46.72	22.37	46.77
1977	0.00	0.00	0.00	0.00	14.26	31.39	14.26	31.39
1978	2.09	0.11	2.16	0.31	5.21	14.43	9.46	14.86
1979	0.54	0.01	0.00	0.00	16.93	38.02	17.47	38.04
1980	4.21	0.13	0.31	0.04	7.98	24.01	12.49	24.18
1981	34.52	2.02	3.79	0.61	4.04	11.94	42.35	14.57
1982	7.02	0.14	0.48	0.12	4.92	8.91	12.41	9.16
1983	0.98	0.01	0.00	0.00	12.81	29.61	13.78	29.62
1984	1.45	0.11	0.00	0.00	1.46	3.45	2.92	3.56
1985	1.39	0.11	2.72	0.56	15.04	37.42	19.14	38.09
1986	1.34	0.07	0.44	0.06	4.91	13.54	6.70	13.67
1987	4.07	0.19	0.88	0.11	5.13	12.85	10.09	13.15
1988	1.86	0.04	0.00	0.00	2.17	5.82	4.03	5.86
1989	0.00	0.00	0.00	0.00	4.73	7.91	4.73	7.91
1990	0.00	0.00	0.00	0.00	4.69	12.08	4.69	12.08
1991	0.00	0.00	0.00	0.00	4.26	12.16	4.26	12.16
1992	0.00	0.00	0.00	0.00	1.60	4.87	1.60	4.87
1993	0.00	0.00	0.00	0.00	1.28	3.52	1.28	3.52
1995	0.00	0.00	0.00	0.00	0.34	1.77	0.34	1.77
1997	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 15. Numbers and biomass (kg) per hectare of young-of-year golden shiners in cove rotenone samples, Chickamauga Reservoir, 1970-1997.

	Young-of-Year*	
	Numbers	Biomass
1970	4.36	0.18
1971	0.58	T**
1972	6.98	0.16
1973	13.26	0.73
1974	5.81	0.27
1975	12.25	0.15
1976	87.29	1.46
1977	363.21	2.05
1978	229.84	1.70
1979	352.64	3.43
1980	661.97	2.11
1981	337.37	5.47
1982	187.65	1.20
1983	518.18	3.65
1984	335.79	2.15
1985	280.62	1.54
1986	374.08	3.16
1987	658.99	6.59
1988	714.26	8.72
1989	152.38	5.01
1990	1,133.17	13.69
1991	422.43	1.91
1992	1,901.18	10.01
1993	2,024.28	8.99
1995	813.95	7.90
1997	771.45	3.53

*All minnows grouped in young-of-year size class.
**Trace equals <0.01

Table 16. Numbers and biomass (kg) per hectare of young-of-year bullhead minnows in cove rotenone samples, Chickamauga Reservoir, 1971-1997.

	Young-of-Year*	
	Numbers	Biomass
1971	1.05	0.00
1972	72.67	0.15
1973	0.65	0.00
1974	734.76	0.81
1975	3,397.45	3.72
1976	1,974.17	1.75
1977	418.03	0.67
1978	148.19	0.14
1979	118.98	0.09
1980	65.01	0.09
1981	20.46	0.01
1982	554.76	0.41
1983	684.88	0.34
1984	527.09	0.44
1985	1,133.06	0.72
1986	257.62	0.22
1987	45.22	0.03
1988	98.39	0.07
1989	92.43	0.04
1990	1,189.05	0.89
1991	773.71	0.66
1992	332.30	0.17
1993	259.44	0.28
1995	3,997.83	2.15
1997	1,822.45	0.53

*All minnows grouped in young-of-year size class.

Table 17. Numbers and Biomass (kg) per hectare for each size group of bluegill in cove rotenone samples, Chickamauga Reservoir, 1970-1997.

	Young-of-Year		Intermediate		Adult		Total	
	Numbers	Biomass	Numbers	Biomass	Numbers	Biomass	Numbers	Biomass
1970	1,243.26	2.46	193.31	5.27	70.03	5.28	1,506.60	13.01
1971	1,669.92	3.18	345.20	8.84	94.88	6.68	2,110.00	18.70
1972	2,296.39	10.96	495.25	9.53	171.22	11.80	2,962.87	32.30
1973	2,214.82	5.97	374.95	7.81	186.17	12.13	2,775.94	25.91
1974	1,447.34	1.77	296.85	4.90	105.55	5.68	1,849.74	12.36
1975	4,073.41	4.83	237.89	4.18	108.32	5.96	4,419.62	14.97
1976	5,812.86	6.67	674.71	10.08	186.81	11.33	6,674.38	28.09
1977	18,963.39	20.64	519.75	7.96	185.11	11.21	19,668.26	39.81
1978	15,302.81	15.89	552.57	7.87	119.50	7.06	15,974.88	30.82
1979	13,121.79	11.47	953.28	13.59	213.18	12.11	14,288.25	37.16
1980	26,776.07	27.42	257.12	4.01	231.35	16.66	27,264.54	48.08
1981	23,622.21	16.68	979.89	15.16	277.70	19.30	24,879.80	51.13
1982	13,088.58	14.52	497.85	6.96	94.39	5.91	13,680.82	27.39
1983	16,134.86	16.37	663.92	9.47	118.91	7.97	16,917.69	33.81
1984	11,698.16	18.59	412.78	6.20	136.40	9.24	12,247.35	34.03
1985	10,131.34	10.35	420.46	5.81	109.76	8.28	10,661.56	24.44
1986	12,644.32	13.74	329.86	4.88	120.50	10.66	13,094.68	29.28
1987	13,373.54	17.52	830.75	11.03	126.37	11.18	14,330.66	39.73
1988	7,156.58	8.74	594.94	8.57	176.41	15.07	7,927.94	32.37
1989	4,142.82	6.07	1,126.66	15.64	184.81	12.84	5,454.29	34.55
1990	7,515.03	9.69	777.29	13.92	389.17	24.66	8,681.49	48.27
1991	5,249.34	8.10	825.90	11.68	234.05	15.43	6,309.28	35.21
1992	4,766.84	5.49	840.96	12.90	153.49	9.57	5,761.30	27.96
1993	5,957.21	7.46	622.12	8.18	99.62	6.74	6,678.96	22.38
1995	12,988.64	16.90	539.35	8.15	188.00	12.08	13,715.98	37.13
1997	11,124.52	11.38	920.94	13.24	169.64	10.49	12,215.10	35.11

Table 18. Numbers and biomass (kg) per hectare for each size group of redear sunfish in cove rotenone samples, Chickamauga Reservoir, 1970-1997.

	Young-of-Year		Intermediate		Adult		Total	
	Numbers	Biomass	Numbers	Biomass	Numbers	Biomass	Numbers	Biomass
1970	9.09	0.02	15.23	0.40	16.65	1.69	40.97	2.11
1971	80.79	0.25	25.28	0.65	33.08	4.52	139.14	5.42
1972	46.02	0.26	40.65	1.14	62.42	6.90	149.09	8.30
1973	614.75	3.64	36.64	0.89	43.59	5.35	694.98	9.88
1974	66.12	0.19	62.88	1.39	61.86	6.80	190.86	8.37
1975	160.80	0.53	17.09	0.40	62.77	6.86	240.66	7.79
1976	187.48	0.53	62.79	1.46	93.81	9.28	344.09	11.28
1977	851.95	3.03	49.23	1.10	77.90	8.60	979.08	12.73
1978	361.20	0.53	31.23	0.60	72.46	6.41	464.89	7.54
1979	1,017.73	1.26	92.27	2.13	50.44	4.57	1,160.45	7.95
1980	2,650.56	4.17	9.33	0.21	52.48	5.90	2,712.38	10.29
1981	21,860.89	17.35	40.38	0.87	62.62	5.51	21,963.89	23.73
1982	4,866.27	6.29	118.54	1.59	35.41	2.63	5,020.22	10.50
1983	10,137.85	5.94	210.69	3.95	109.94	8.16	10,458.48	18.05
1984	2,582.35	1.93	162.19	2.82	57.19	4.52	2,801.73	9.26
1985	2,712.33	3.55	116.17	1.89	81.81	4.80	2,910.31	10.24
1986	5,813.38	7.75	107.20	1.78	52.69	3.08	5,973.27	12.61
1987	5,188.45	6.09	204.21	3.46	43.70	2.56	5,436.35	12.10
1988	14,650.57	14.41	243.39	4.46	64.02	4.36	14,957.98	23.24
1989	52.40	0.19	575.11	8.29	70.65	4.87	698.16	13.35
1990	457.73	0.75	147.15	2.53	147.60	8.93	752.48	12.21
1991	176.69	0.45	235.58	4.01	113.61	8.46	525.89	12.91
1992	140.21	0.28	96.00	2.12	145.74	9.96	381.95	12.36
1993	787.69	1.32	91.24	1.76	91.34	8.02	970.28	11.10
1995	1,747.90	4.23	118.57	2.13	62.28	4.82	1,928.75	11.17
1997	85.68	0.17	288.35	4.79	93.37	8.77	467.40	13.73

Table 19. Numbers and biomass (kg) per hectare for each size group of smallmouth buffalo in cove rotenone samples, Chickamauga Reservoir, 1970-1997.

	Young-of-Year		Intermediate		Adult		Total	
	Numbers	Biomass	Numbers	Biomass	Numbers	Biomass	Numbers	Biomass
1970	1.96	0.01	3.04	0.75	23.28	34.87	28.28	35.64
1971	0.58	0.02	36.05	71.13	0.00	0.00	36.63	71.15
1972	8.68	0.64	2.53	0.98	26.48	41.51	37.69	43.14
1973	1.74	0.15	1.39	0.40	21.21	40.84	24.34	41.39
1974	0.00	0.00	0.00	0.00	6.40	12.52	6.40	12.52
1975	1.79	0.15	0.78	0.16	6.39	18.86	8.96	19.17
1976	0.61	0.01	0.00	0.00	12.41	28.93	13.02	28.94
1977	2.33	0.16	1.82	0.72	7.49	9.93	11.64	10.82
1978	0.00	0.00	0.00	0.00	0.35	1.84	0.35	1 84
1979	0.00	0.00	0.00	0.00	3.31	4.57	3.31	4.57
1980	0.31	0.01	0.00	0.00	1.67	3.35	1.97	3.35
1981	0.00	0.00	0.43	0.15	1.58	2.75	2.01	2.90
1982	0.00	0.00	0.45	0.17	6.85	10.83	7.31	11.00
1983	36.77	0.81	0.00	0.00	3.30	5.59	40.07	6.41
1984	0.00	0.00	0.00	0.00	0.48	2.57	0.48	2.57
1985	3.64	0.16	1.73	0.53	4.86	4.30	10.23	4.98
1986	1.35	0.00	0.45	0.10	2.28	1.45	4.09	1.66
1987	0.00	0.00	0.00	0.00	2.86	7.40	2.86	7.40
1988	0.00	0.00	0.00	0.00	1.21	1.77	1.21	1.77
1989	0.41	T*	0.00	0.00	0.41	0.96	0.82	0.96
1990	0.00	0.00	0.00	0.00	0.69	1.93	0.69	1.93
1991	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1992	3.48	T*	0.00	0.00	0.00	0.00	3.48	T*
1993	3.83	0.08	0.00	0.00	0.43	0.28	4.26	0.35
1995	30.64	0.41	0.00	0.00	1.70	0.88	32.34	1.29
1997	4.73	0.05	5.45	1.24	0.88	1.89	11.06	3.18

*Trace equals <0.01

Table 20. Numbers and biomass (kg) per hectare for each size group of spotted sucker in cove rotenone samples, Chickamauga Reservoir, 1970-1997.

	Young-of-Year		Intermediate		Adult		Total	
	Numbers	Biomass	Numbers	Biomass	Numbers	Biomass	Numbers	Biomass
1970	18.02	0.10	0.68	0.07	0.47	0.23	19.17	0.40
1971	21.16	0.30	0.00	0.00	8.76	2.76	29.92	3.06
1972	38.06	0.81	2.00	0.32	19.79	6.68	59.85	7.82
1973	162.46	3.28	7.13	1.08	17.56	5.95	187.14	10.32
1974	23.71	0.36	26.16	3.54	39.10	13.07	88.97	16.96
1975	10.71	0.17	10.98	1.41	19.72	8.84	41.42	10.42
1976	15.29	0.28	3.15	0.51	35.12	17.17	53.55	17.96
1977	18.19	0.30	2.84	0.37	23.23	11.41	44.26	12.08
1978	6.23	0.09	5.25	0.64	14.85	7.48	26.33	8.21
1979	8.99	0.07	6.05	0.80	11.20	5.73	26.23	6.60
1980	3.09	0.02	0.31	0.05	10.61	7.24	14.01	7.31
1981	0.00	0.00	0.00	0.00	12.47	9.34	12.47	9.34
1982	0.43	0.02	0.43	0.03	5.83	3.45	6.70	3.50
1983	5.37	0.01	3.90	0.46	2.82	2.58	12.09	3.05
1984	12.20	0.06	19.02	2.48	8.63	3.87	39.85	6.41
1985	0.91	0.02	11.82	1.43	8.64	5.91	21.36	7.36
1986	1.36	0.01	2.72	0.31	4.97	2.70	9.05	3.03
1987	1.36	0.01	5.91	0.72	2.74	1.43	10.01	2.16
1988	0.48	T*	0.95	0.12	5.56	2.67	6.98	2.79
1989	0.84	0.03	4.78	0.53	7.61	4.49	13.24	5.04
1990	2.71	0.01	1.97	0.26	18.15	10.62	22.83	10.89
1991	5.12	0.04	2.60	0.36	18.36	10.74	26.07	11.15
1992	0.43	T*	0.00	0.00	10.67	4.36	11.11	4.36
1993	13.51	0.10	2.81	0.37	8.65	4.13	24.98	4.60
1995	3.28	0.02	0.00	0.00	4.69	2.98	7.97	3.01
1997	21.52	0.10	3.27	0.45	18.48	7.85	43.27	8.40

*Trace equals <0.01

Table 21. Numbers and biomass (kg) per hectare for each size group of channel catfish in cove rotenone samples, Chickamauga Reservoir, 1970-1997.

	Young-of-Year		Intermediate		Adult		Total	
	Numbers	Biomass	Numbers	Biomass	Numbers	Biomass	Numbers	Biomass
1970	3.27	0.02	10.10	0.62	5.71	2.35	19.07	2.98
1971	0.99	0.01	12.73	0.86	20.19	9.89	33.91	10.76
1972	1.05	0.01	12.32	0.79	23.20	7.33	36.57	8.12
1973	1.23	0.01	12.07	0.71	29.68	9.64	42.98	10.36
1974	0.52	0.01	3.21	0.19	8.41	3.92	12.14	4.12
1975	1.03	0.01	2.39	0.11	10.27	4.13	13.69	4.25
1976	1.63	0.00	6.26	0.32	17.67	12.11	25.56	12.43
1977	2.75	0.02	4.55	0.27	12.14	7.12	19.44	7.40
1978	1.38	0.00	0.35	0.01	13.45	4.17	15.18	4.18
1979	1.05	0.01	1.40	0.04	22.35	14.19	24.80	14.24
1980	2.90	0.01	0.42	0.02	11.34	7.70	14.65	7.73
1981	6.41	0.06	4.17	0.12	67.02	59.00	77.60	59.17
1982	0.00	0.00	0.91	0.03	6.21	5.98	7.12	6.01
1983	0.00	0.00	0.00	0.00	11.22	12.69	11.22	12.69
1984	0.00	0.00	0.45	0.02	9.80	11.62	10.25	11.64
1985	0.44	0.00	8.40	0.45	7.32	8.97	16.16	9.42
1986	2.22	0.01	4.89	0.18	0.44	0.59	7.56	0.79
1987	0.45	0.01	0.00	0.00	3.24	3.62	3.69	3.63
1988	1.85	0.01	9.62	0.39	35.04	10.10	46.51	10.50
1989	0.00	0.00	0.00	0.00	10.28	6.86	10.28	6.86
1990	0.34	T*	2.79	0.15	8.87	5.23	12.01	5.37
1991	0.74	T*	4.99	0.38	14.82	4.56	20.55	4.94
1992	0.00	0.00	3.88	0.25	7.41	4.38	11.28	4.63
1993	0.43	T*	2.55	0.10	3.44	3.48	6.42	3.58
1995	0.00	0.00	0.00	0.00	0.34	0.39	0.34	0.39
1997	0.29	T*	0.00	0.00	2.24	1.65	2.53	1.65

*Trace equals <0.01

Table 22. Numbers and biomass (kg) per hectare for each size group of flathead catfish in cove rotenone samples, Chickamauga Reservoir, 1970-1997.

	Young-of-Year		Intermediate		Adult		Total	
	Numbers	Biomass	Numbers	Biomass	Numbers	Biomass	Numbers	Biomass
1970	3.51	0.01	0.43	0.07	1.36	0.51	5.30	0.60
1971	2.89	0.01	1.92	0.32	0.47	0.20	5.27	0.53
1972	0.78	0.00	1.06	0.08	1.65	0.98	3.49	1.06
1973	1.03	0.01	0.77	0.13	4.10	2.12	5.91	2.26
1974	0.00	0.00	0.74	0.08	2.40	1.23	3.14	1.31
1975	0.77	0.00	1.57	0.24	0.86	0.36	3.20	0.60
1976	1.21	0.00	0.00	0.00	1.50	0.81	2.70	0.81
1977	3.51	0.01	0.98	0.12	1.21	0.70	5.70	0.83
1978	1.12	0.00	1.74	0.18	1.22	0.40	4.08	0.58
1979	0.00	0.00	0.77	0.12	1.12	0.43	1.89	0.55
1980	0.34	0.00	0.00	0.00	0.00	0.00	0.34	0.00
1981	20.00	0.14	1.23	0.12	0.00	0.00	21.23	0.26
1982	0.87	0.00	0.00	0.00	0.87	0.63	1.74	0.63
1983	0.00	0.00	0.49	0.01	0.00	0.00	0.49	0.01
1984	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1985	0.00	0.00	0.00	0.00	0.44	0.20	0.44	0.20
1986	0.91	0.00	0.00	0.00	0.44	0.13	1.35	0.13
1987	0.00	0.00	0.00	0.00	0.44	0.24	0.44	0.24
1988	0.47	T*	0.00	0.00	0.00	0.00	0.47	T*
1989	0.85	T*	0.41	0.05	0.87	0.48	2.13	0.53
1990	0.83	0.01	0.41	0.01	1.99	1.79	3.23	1.81
1991	1.90	0.01	0.36	0.03	0.47	0.20	2.73	0.25
1992	2.49	T*	0.87	0.11	0.53	0.46	3.89	0.57
1993	0.27	T*	0.00	0.00	1.18	0.61	1.45	0.61
1995	1.75	0.01	1.06	0.09	1.18	0.83	3.99	0.93
1997	1.00	T*	0.59	0.06	1.15	0.56	2.74	0.63

*Trace equals <0.01

Table 23. Numbers and biomass (kg) per hectare for each size group of white bass in cove rotenone samples, Chickamauga Reservoir, 1970-1997.

	Young-of-Year		Intermediate		Adult		Total	
	Numbers	Biomass	Numbers	Biomass	Numbers	Biomass	Numbers	Biomass
1970	47.30	0.20	0.12	0.01	0.00	0.00	47.42	0.21
1971	4.07	0.08	0.00	0.00	0.00	0.00	4.07	0.08
1972	3.30	0.06	0.27	0.02	0.00	0.00	3.57	0.08
1973	13.96	0.15	1.33	0.07	1.12	0.22	16.42	0.44
1974	2.61	0.04	0.00	0.00	0.85	0.16	3.46	0.20
1975	0.00	0.00	0.00	0.00	0.27	0.06	0.27	0.06
1976	3.86	0.08	1.40	0.10	0.47	0.06	5.72	0.24
1977	35.48	0.38	2.79	0.16	0.00	0.00	38.27	0.54
1978	11.03	0.03	0.00	0.00	0.00	0.00	11.03	0.03
1979	3.16	0.05	0.00	0.00	0.00	0.00	3.16	0.05
1980	11.25	0.05	0.00	0.00	0.00	0.00	11.25	0.05
1981	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1982	1.43	0.03	0.48	0.03	0.48	0.08	2.38	0.14
1983	0.00	0.00	0.00	0.00	1.46	0.18	1.46	0.18
1984	0.00	0.00	0.00	0.00	1.82	0.32	1.82	0.32
1985	37.27	0.79	5.91	0.33	0.44	0.09	43.63	1.20
1986	21.34	0.72	172.25	11.70	1.82	0.25	195.44	12.66
1987	16.04	0.25	1.78	0.09	0.00	0.00	17.82	0.35
1988	29.37	0.33	5.12	0.27	1.86	0.28	36.35	0.88
1989	2.09	0.04	0.00	0.00	0.00	0.00	2.09	0.04
1990	9.79	0.20	13.79	0.79	0.34	0.05	23.92	1.04
1991	13.01	0.19	0.00	0.00	0.00	0.00	13.01	0.19
1992	0.34	T*	0.00	0.00	0.00	0.00	0.34	T*
1993	9.36	0.26	0.85	0.04	1.70	0.53	11.91	0.83
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1997	0.66	T*	0.00	0.00	0.00	0.00	0.66	T*

*Trace equals <0.01

Table 24. Numbers and biomass (kg) per hectare for each size group of yellow bass in cove rotenone samples, Chickamauga Reservoir, 1970-1997.

	Young-of-Year		Intermediate		Adult		Total	
	Numbers	Biomass	Numbers	Biomass	Numbers	Biomass	Numbers	Biomass
1971	0.91	0.00	0.27	0.02	0.00	0.00	1.18	0.02
1972	21.90	0.15	0.26	0.02	0.54	0.06	22.70	0.23
1973	16.65	0.19	4.65	0.28	0.00	0.00	21.30	0.47
1974	6.63	0.11	1.92	0.14	0.00	0.00	8.55	0.25
1975	19.37	0.33	12.01	0.95	2.01	0.26	33.39	1.54
1976	48.09	0.19	8.76	0.59	3.82	0.47	60.67	1.26
1977	238.76	0.94	6.52	0.56	2.62	0.30	247.91	1.80
1978	106.99	0.29	5.90	0.45	2.70	0.33	115.59	1.06
1979	3.84	0.05	0.38	0.03	0.38	0.04	4.61	0.13
1980	121.22	0.48	5.46	0.50	1.18	0.15	127.85	1.13
1981	187.95	4.29	69.19	4.56	10.23	1.26	267.37	10.11
1982	232.81	1.15	37.20	2.94	6.04	0.77	276.05	4.86
1983	95.83	0.80	16.34	1.46	12.62	1.68	124.79	3.94
1984	100.14	0.56	9.70	0.70	1.82	0.25	111.65	1.50
1985	84.19	0.46	32.09	2.58	9.64	1.20	125.92	4.24
1986	103.22	1.44	56.70	3.18	6.74	0.91	166.66	5.54
1987	70.48	0.66	5.93	0.34	2.76	0.33	79.17	1.34
1988	174.59	1.21	6.70	0.46	0.94	0.21	182.23	1.87
1989	45.03	0.60	1.30	0.10	1.67	0.24	48.00	0.94
1990	721.50	2.13	7.27	0.44	1.38	0.17	730.15	2.74
1991	134.53	1.29	1.48	0.11	0.97	0.19	136.98	1.59
1992	103.99	0.51	1.30	0.10	0.00	0.00	105.29	0.60
1993	239.81	1.26	7.61	0.52	2.98	0.44	250.40	2.22
1995	71.04	0.33	4.04	0.26	0.82	0.11	75.89	0.70
1997	211.51	1.12	2.13	0.16	1.58	0.20	215.22	1.48

Table 25. Numbers and biomass (kg) per hectare for each size group of warmouth in cove rotenone samples, Chickamauga Reservoir, 1970-1997.

	Young-of-Year		Intermediate		Adult		Total	
	Numbers	Biomass	Numbers	Biomass	Numbers	Biomass	Numbers	Biomass
1970	7.18	0.03	4.44	0.11	2.30	0.17	13.92	0.30
1971	37.62	0.09	10.65	0.23	0.00	0.00	48.27	0.32
1972	39.04	0.13	14.26	0.38	1.88	0.15	55.18	0.66
1973	195.94	1.09	9.40	0.25	8.17	0.65	213.51	2.00
1974	8.92	0.02	3.79	0.07	0.98	0.07	13.68	0.16
1975	38.28	0.06	4.67	0.08	2.82	0.27	45.77	0.41
1976	54.55	0.07	12.34	0.26	5.68	0.41	72.57	0.74
1977	233.55	0.41	9.93	0.15	6.12	0.46	249.60	1.02
1978	313.63	0.31	26.19	0.54	9.05	0.79	348.87	1.64
1979	844.05	0.95	34.19	0.65	18.29	1.55	896.53	3.15
1980	1,282.81	1.67	13.77	0.32	7.42	0.64	1,304.00	2.64
1981	2,733.15	5.32	56.63	1.12	32.43	2.21	2,822.21	8.65
1982	1,712.30	1.92	45.06	0.77	10.92	0.76	1,768.28	3.45
1983	3,463.73	2.50	53.73	0.84	9.38	0.79	3,526.84	4.13
1984	1,579.34	2.20	74.19	0.92	6.69	0.45	1,660.22	3.58
1985	311.27	0.40	24.55	0.39	0.45	0.03	336.27	0.81
1986	1,050.77	1.26	27.14	0.53	6.38	0.44	1,084.28	2.24
1987	1,588.89	1.95	80.87	1.50	22.31	2.33	1,692.08	5.77
1988	1,290.27	2.06	54.27	1.04	32.95	3.78	1,377.50	6.88
1989	406.65	0.45	90.37	1.38	33.01	2.63	530.03	4.46
1990	446.66	0.94	40.34	0.67	28.90	2.22	515.91	3.83
1991	590.54	1.01	50.87	0.84	15.25	1.14	656.66	2.99
1992	97.02	0.12	24.92	0.42	8.79	0.63	130.73	1.16
1993	412.47	0.58	24.53	0.48	10.77	1.12	447.76	2.19
1995	871.71	1.28	19.97	0.37	5.30	0.36	896.98	2.01
1997	208.86	0.22	27.85	0.53	12.34	1.07	249.05	1.82

Table 26. Numbers and biomass (kg) per hectare for each size group of white crappie in cove rotenone samples, Chickamauga Reservoir, 1970-1997.

	Young-of-Year		Intermediate		Adult		Total	
	Numbers	Biomass	Numbers	Biomass	Numbers	Biomass	Numbers	Biomass
1970	89.00	0.11	28.51	1.19	20.68	3.09	138.18	4.39
1971	7.90	0.05	13.69	1.04	17.95	3.14	39.54	4.23
1972	29.80	0.10	13.33	0.48	12.55	2.52	55.68	3.11
1973	24.31	0.07	15.29	0.69	16.30	2.94	55.90	3.70
1974	0.60	0.00	2.14	0.07	7.15	1.15	9.88	1.22
1975	1.13	0.00	4.31	0.27	7.80	1.07	13.25	1.35
1976	26.53	0.06	14.70	0.24	7.65	1.25	48.88	1.55
1977	66.00	0.18	16.16	0.18	8.59	1.20	90.75	1.56
1978	116.93	0.27	26.24	0.98	12.34	1.46	155.50	2.71
1979	57.10	0.12	26.41	0.59	28.16	2.87	111.67	3.58
1980	9.31	0.02	8.42	0.09	12.86	1.74	30.59	1.85
1981	10.43	0.02	14.13	0.15	5.59	0.99	30.16	1.17
1982	118.97	0.21	4.57	0.05	3.25	0.60	126.79	0.86
1983	99.81	0.22	15.32	0.14	0.49	0.04	115.62	0.40
1984	80.87	0.17	5.77	0.14	0.98	0.10	87.61	0.41
1985	43.88	0.10	32.34	0.36	2.64	0.40	78.86	0.86
1986	29.04	0.05	14.70	0.21	0.44	0.04	44.18	0.29
1987	262.92	0.60	11.04	0.11	0.00	0.00	273.96	0.71
1988	86.11	0.18	13.35	0.13	0.00	0.00	99.46	0.31
1989	38.86	0.07	6.12	0.06	2.45	0.43	47.43	0.56
1990	133.97	0.22	41.46	0.45	0.00	0.00	175.43	0.66
1991	23.22	0.05	10.65	0.09	0.65	0.08	34.51	0.22
1992	8.11	0.02	2.17	0.01	0.00	0.00	10.28	0.03
1993	76.94	0.15	5.20	0.06	0.00	0.00	82.14	0.20
1995	8.82	0.02	3.59	0.03	0.00	0.00	12.41	0.05
1997	22.25	0.05	3.27	0.02	0.00	0.00	25.53	0.07

Table 27. Numbers and biomass (kg) per hectare for each size group of black crappie in cove rotenone samples, Chickamauga Reservoir, 1970-1997.

	Young-of-Year		Intermediate		Adult		Total	
	Numbers	Biomass	Numbers	Biomass	Numbers	Biomass	Numbers	Biomass
1970	0.00	0.00	0.00	0.00	0.89	0.10	0.89	0.10
1971	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1972	1.79	0.01	0.00	0.00	0.40	0.10	2.18	0.10
1973	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1974	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1975	0.00	0.00	0.00	0.00	0.75	0.13	0.75	0.13
1976	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1977	0.00	0.00	0.00	0.00	3.08	0.65	3.08	0.65
1978	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1979	0.00	0.00	1.47	0.07	0.65	0.08	2.13	0.15
1980	2.75	0.01	0.69	0.01	0.65	0.12	4.09	0.13
1981	0.83	0.00	1.82	0.06	0.43	0.04	3.09	0.11
1982	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1983	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1984	0.45	0.00	0.45	0.00	0.00	0.00	0.91	0.00
1985	5.85	0.02	6.23	0.05	1.78	0.23	13.86	0.30
1986	1.33	0.00	6.69	0.15	1.35	0.18	9.37	0.33
1987	7.10	0.02	0.48	0.00	0.48	0.04	8.05	0.06
1988	131.13	0.30	13.01	0.16	0.90	0.10	145.04	0.56
1989	31.98	0.07	3.74	0.07	1.66	0.26	37.38	0.41
1990	125.59	0.26	7.85	0.12	2.41	0.35	135.85	0.72
1991	88.74	0.20	5.16	0.05	1.86	0.30	95.76	0.55
1992	208.44	0.41	2.27	0.04	0.96	0.24	211.67	0.69
1993	187.41	0.31	16.32	0.48	0.87	0.07	204.60	0.85
1995	109.15	0.25	7.43	0.18	1.43	0.22	118.00	0.65
1997	40.31	0.11	4.32	0.05	2.62	0.45	47.25	0.60

Table 28. Numbers and biomass (kg) per hectare for each size group of sauger in cove rotenone samples, Chickamauga Reservoir, 1970-1997.

	Young-of-Year		Intermediate		Adult		Total	
	Numbers	Biomass	Numbers	Biomass	Numbers	Biomass	Numbers	Biomass
1970	0.00	0.00	0.00	0.00	0.75	0.23	0.75	0.23
1972	0.54	0.03	0.81	0.07	0.27	0.09	1.61	0.19
1973	2.23	0.13	0.58	0.09	2.59	0.60	5.40	0.82
1974	1.39	0.07	0.26	0.02	0.85	0.19	2.50	0.28
1975	0.27	0.02	1.46	0.21	0.19	0.03	1.92	0.26
1976	0.00	0.00	0.00	0.00	3.39	0.78	3.39	0.78
1977	6.52	0.25	0.41	0.03	0.00	0.00	6.93	0.28
1978	0.00	0.00	0.79	0.10	0.69	0.14	1.48	0.24
1979	0.00	0.00	1.40	0.14	0.47	0.08	1.86	0.23
1980	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1981	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1982	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1983	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1984	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1985	0.00	0.00	0.00	0.00	0.44	0.10	0.44	0.10
1986	0.00	0.00	0.00	0.00	0.45	0.25	0.45	0.25
1987	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1988	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1989	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.82	0.03	0.00	0.00	0.00	0.00	0.82	0.03
1991	0.00	0.00	0.00	0.00	1.40	0.28	1.40	0.28
1992	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1993	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.34	0.16	0.34	0.16
1997	0.00	0.00	0.43	0.06	3.20	0.91	3.63	0.97

Table 29. Numbers and biomass (kg) per hectare for each size group of yellow perch in cove rotenone samples, Chickamauga Reservoir, 1970-1997

	Young-of-Year		Intermediate		Adult		Total	
	Numbers	Biomass	Numbers	Biomass	Numbers	Biomass	Numbers	Biomass
1970	11.81	0.04	4.92	0.04	0.21	0.01	16.94	0.10
1971	0.00	0.00	28.77	0.29	4.26	0.28	33.03	0.57
1972	0.00	0.00	26.89	0.30	5.37	0.27	32.25	0.57
1973	0.00	0.00	7.68	0.09	15.73	0.76	23.41	0.85
1974	0.00	0.00	2.08	0.03	6.22	0.41	8.30	0.44
1975	0.27	0.00	3.18	0.03	0.91	0.06	4.36	0.09
1976	0.00	0.00	28.35	0.28	3.84	0.21	32.19	0.49
1977	42.99	0.11	89.64	0.54	15.01	0.61	147.65	1.25
1978	195.38	0.50	96.60	0.56	36.33	1.67	328.31	2.72
1979	0.38	0.00	26.80	0.19	43.06	2.11	70.25	2.31
1980	95.76	0.26	65.24	0.38	31.77	2.39	192.76	3.03
1981	39.05	0.12	56.11	0.36	25.35	1.17	120.50	1.64
1982	26.96	0.06	18.87	0.11	19.30	1.11	65.12	1.28
1983	49.27	0.13	33.27	0.20	22.59	0.97	105.14	1.30
1984	28.29	0.07	19.02	0.11	15.59	0.79	62.90	0.98
1985	59.09	0.17	26.41	0.14	3.20	0.28	88.70	0.58
1986	4.18	0.01	42.66	0.26	4.08	0.14	50.92	0.40
1987	11.23	0.03	34.22	0.20	7.41	0.38	52.86	0.61
1988	178.87	0.47	78.24	0.45	42.46	1.71	299.57	2.63
1989	30.41	0.07	89.77	0.57	82.74	3.15	202.92	3.80
1990	105.72	0.27	143.18	0.88	101.24	3.86	350.14	5.01
1991	13.46	0.03	62.46	0.38	45.08	1.59	121.01	2.00
1992	65.83	0.18	86.71	0.53	22.85	1.10	175.38	1.80
1993	138.84	0.36	104.64	0.62	39.58	1.56	283.06	2.54
1995	37.62	0.12	42.74	0.30	18.17	0.91	98.52	1.33
1997	49.68	0.13	36.34	0.22	36.71	1.32	122.73	1.67

Table 30. Numbers and biomass (kg) per hectare for each size group of freshwater drum in cove rotenone samples, Chickamauga Reservoir, 1970-1997.

	Young-of-Year		Intermediate		Adult		Total	
	Numbers	Biomass	Numbers	Biomass	Numbers	Biomass	Numbers	Biomass
1970	109.45	0.76	211.63	12.38	96.91	16.34	417.99	29.48
1971	72.45	0.93	139.24	8.21	58.07	8.40	269.77	17.54
1972	305.07	3.72	153.91	9.71	127.07	25.45	586.05	38.88
1973	228.57	1.87	307.13	15.63	125.75	21.71	661.45	39.21
1974	27.10	0.21	165.60	7.68	62.02	10.33	254.72	18.22
1975	33.86	0.29	68.26	3.96	37.15	8.09	139.26	12.35
1976	77.81	0.52	125.65	7.08	119.88	19.32	323.34	26.92
1977	62.65	0.60	116.64	6.73	127.61	17.95	306.90	25.28
1978	0.34	0.00	73.93	4 46	82.26	11.23	156.54	15.70
1979	5.87	0.06	68.65	4.15	100.96	13.30	175.47	17.51
1980	2.76	0.02	27.73	1.74	116.01	15.76	146.50	17.51
1981	6.31	0.04	57.13	3.52	247.53	38.22	310.97	41.78
1982	1.39	0.02	68.89	3.96	152.82	20.98	223.10	24.96
1983	50.62	0.36	95.04	5.61	166.78	24.21	312.44	30.18
1984	36.37	0.22	102.86	4.86	90.94	12.36	230.17	17.44
1985	102.65	0.69	116.16	6.81	142.92	22.59	361.73	30.10
1986	14.54	0.14	29.80	1.62	74.81	11.64	119.15	13.40
1987	30.11	0.24	84.39	4.05	110.75	15.29	225.26	19.58
1988	2.75	0.05	72.00	3.82	89.67	11.29	164.42	15.16
1989	8.16	0.05	125.50	6.72	115.86	16.27	249.52	23.04
1990	260.87	1.31	166.79	8.10	159.14	21.74	586.80	31.16
1991	51.80	0.36	204.28	9.84	128.08	20.09	384.16	30.28
1992	40.50	0.18	179.45	9.98	153.29	22.03	373.24	32.19
1993	11.36	0.08	119.54	6.43	148.87	21.00	279.78	27.51
1995	23.46	0.18	124.74	6.65	148.38	20.89	296.57	27.73
1997	24.31	0.09	170.79	8.84	154.83	23.72	349.92	32.65

Table 31. Numbers and biomass (kg) per hectare for each size group of largemouth bass in cove rotenone Samples, Chickamauga Reservoir, 1970-1997.

	Young-of-Year		Intermediate		Adult		Total	
	Numbers	Biomass	Numbers	Biomass	Numbers	Biomass	Numbers	Biomass
1970	263.10	0.69	22.41	2.05	9.58	2.89	295.09	5.63
1971	64.88	0.35	35.72	1.89	20.59	6.67	121.20	8.90
1972	21.16	0.17	60.90	4.08	14.62	4.94	96.68	9.18
1973	66.45	0.43	69.09	4.86	26.93	6.71	162.46	12.01
1974	27.57	0.11	20.43	1.73	19.07	4.91	67.08	6.76
1975	65.56	0.23	23.82	1.68	17.35	6.32	106.74	8.23
1976	38.80	0.19	34.59	1.36	13.53	5.86	86.92	7.41
1977	251.89	1.07	130.99	3.77	16.76	3.92	399.64	8.76
1978	506.83	1.91	54.77	1.82	19.98	4.96	581.58	8.69
1979	784.76	2.25	27.21	2.00	22.44	7.40	834.42	11.65
1980	863.78	3.82	101.05	1.78	12.01	5.47	976.84	11.08
1981	468.11	2.98	219.40	5.76	28.02	8.13	715.53	16.87
1982	321.76	1.08	91.40	5.62	29.53	6.18	442.69	12.88
1983	259.60	1.37	71.27	2.67	30.79	6.91	361.67	10.95
1984	379.15	1.36	40.84	2.48	10.93	3.39	430.92	7.23
1985	136.96	0.77	115.07	3.65	51.78	13.73	303.81	18.15
1986	91.88	0.54	100.78	3.09	6.69	1.66	199.35	5.28
1987	228.08	1.12	97.65	3.87	28.33	6.64	354.05	11.64
1988	158.10	0.76	72.88	2.54	22.52	6.10	253.50	9.40
1989	375.23	1.27	42.70	3.17	29.46	9.96	447.50	14.40
1990	223.48	0.97	69.44	2.10	23.34	7.27	316.26	10.34
1991	181.30	0.67	53.51	2.85	21.45	8.03	256.27	11.56
1992	717.62	1.90	13.82	1.03	15.99	5.92	747.42	8.85
1993	478.93	1.13	34.68	0.98	9.86	5.17	523.48	7.27
1995	211.82	0.95	35.60	1.10	15.40	4.63	262.82	6.69
1997	294.77	1.35	29.54	1.86	15.99	6.20	340.29	9.41

Enclosure 2

Entrainment Monitoring At Sequoyah Nuclear Plant 2004

by
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and
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October 2006
Final

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Revisions to Report

In the Executive Summary and Introduction sections, a clerical error was discovered in the sentence stating that "During operational monitoring at SQN from 1980 through 1985, the average hydraulic entrainment of fish larvae was estimated to be 8.6 percent of those passing the plant." This sentence was revised to correctly state ""During operational monitoring at SQN from 1981 through 1985, the average entrainment rate of fish larvae was estimated to be 2.8 percent of those passing the plant." Average hydraulic entrainment for the same period was 8.6 percent and was mistakenly substituted as the value for larval entrainment and the operational monitoring period was intended to begin in 1981 instead of 1980.

Additionally, the third column of Table 5 was revised to reflect the preferred method of calculating "Average Seasonal Density". The revised method sums the densities (number per 1000 m^3) for each family for all sample periods and divides by the total number of sample periods. The previous method calculated the average seasonal densities for intake and reservoir samples using the same method, but then added the two average densities and divided by two to obtain average seasonal density for all larvae. The revised method is more accurate as it reflects the difference in volumes of water filtered between intake and reservoir samples.

TABLE OF CONTENTS

	Page
List of Tables	ii
List of Figures	iii
Acronyms	iv
Executive Summary	v
Introduction	1
Reservoir and Plant Operation during 2004	1
Chickamauga Reservoir Operation	1
Sequoyah Operation	2
Methods	2
Sample Collection	2
Laboratory and Data Analysis	2
Laboratory Analysis	2
Data Analysis	3
Results and Discussion	3
Fish Eggs	4
Larval Fish	4
Hydraulic Entrainment Estimates	5
Fish Egg and Larvae Entrainment Estimates	5
Discussion with Historical Comparisons	5
Chickamauga Reservoir Fish Community	6
Sport Fishing Index	7
Conclusions	8
Literature Cited	9

LIST OF TABLES

		Page
Table 1.	Total Volume of Water Filtered by Sample Period at Sequoyah Nuclear Plant during 2004 to Estimate Entrainment of Fish Eggs and Larvae.	10
Table 2.	List of Fish Eggs and Larvae by Family Collected at Sequoyah Nuclear Plant in 2004 Entrainment Samples and Lowest Level of Taxonomic Resolution for each Family.	11
Table 3.	Percent Composition of Fish Eggs and Larvae by Family in Entrainment Samples at Sequoyah Nuclear Plant during 2004.	12
Table 4.	Peak Densities and Sample Dates by Family for Fish Eggs and Larvae from Intake and Reservoir Entrainment Samples Collected at Sequoyah Nuclear Plant during 2004.	13
Table 5.	Average Seasonal Density of Fish Eggs and Larvae in Entrainment Samples at Sequoyah Nuclear Plant during 2004.	14
Table 6.	Estimated Daily Hydraulic Entrainment by Sample Period at Sequoyah Nuclear Plant during 2004.	14
Table 7.	Seasonal Entrainment Estimates for Numerically Significant Fish Taxa Collected at Sequoyah Nuclear Plant during 2004.	15
Table 8.	Historical and Current Entrainment Percentages for Fish Eggs and Larvae at Sequoyah Nuclear Plant during 1981-1985 and 2004.	15
Table 9.	Recent (1993-2005) RFAI Scores Collected as Part of the Vital Signs Monitoring Program Upstream and Downstream of Sequoyah Nuclear Plant.	16

LIST OF FIGURES

		Page
Figure 1.	Average daily surface elevation (meters above mean sea level) of Chickamauga Reservoir during 2004.	17
Figure 2.	Average daily rate of flow in Chickamauga Reservoir during 2003 and 2004.	18
Figure 3.	Average daily rate of generation at Sequoyah Nuclear Plant during 2003 and 2004.	19
Figure 4.	Average daily rate of hydraulic entrainment at Sequoyah Nuclear Plant during 2003 and 2004.	20
Figure 5.	Map of entrainment sample transects in the vicinity of Sequoyah Nuclear Plant during 2004.	21
Figure 6.	Densities of sciaenid eggs collected in intake and reservoir entrainment samples at Sequoyah Nuclear Plant during 2004.	22
Figure 7.	Densities of total larval fish collected in intake and reservoir entrainment samples at Sequoyah Nuclear Plant during 2004.	23
Figure 8.	Densities of clupeid larvae collected in intake and reservoir entrainment samples at Sequoyah Nuclear Plant during 2004.	24
Figure 9.	Densities of moronid larvae collected in intake and reservoir entrainment samples at Sequoyah Nuclear Plant during 2004.	25
Figure 10.	Densities of centrarchid larvae collected in intake and reservoir entrainment samples at Sequoyah Nuclear Plant during 2004.	26
Figure 11.	Densities of sciaenid larvae collected in intake and reservoir entrainment samples at Sequoyah Nuclear Plant during 2004.	27
Figure 12.	Sport Fishing Index results for Chickamauga Reservoir between 1997 and 2004.	28

Acronyms

AMSL	Above Mean Sea Level
BIP	Balanced Indigenous Population
CCW	Condenser Cooling Water
CFS	Cubic Feet per Second
NPDES	National Pollutant Discharge Elimination System
RFAI	Reservoir Fish Assemblage Index
SFI	Sport Fishing Index
SQN	Sequoyah Nuclear Plant
TRM	Tennessee River Mile
TVA	Tennessee Valley Authority
VS	Vital Signs

EXECUTIVE SUMMARY

Sequoyah Nuclear Plant's (SQN) current National Pollutant Discharge Elimination System permit number TN0026450 states, "For Section 316(b), the permittee shall summarize previous data and indicate whether significant changes have occurred in plant operation, reservoir operations or instream biology that would necessitate significant changes to the variance." Condenser Cooling Water (CCW) withdrawn from Chickamauga Reservoir potentially affects the fish community by entrainment (small fish and eggs drawn through the intake screens) and impingement (fish trapped against screens by the intake water velocity). Densities of fish in the reservoir near the intake and daily volume of water transported past the SQN were compared to daily CCW demand and densities of fish at the intake skimmer wall to estimate percent entrainment.

During operational monitoring from 1981 through 1985, the entrainment of total fish larvae was estimated to be 2.8 percent of those passing the plant. In order to compare the current larval fish assemblage and rate of entrainment with data collected during historical monitoring, ichthyoplankton sampling was conducted during May through July 2004. Clupeids (primarily gizzard and threadfin shad) were the dominant taxon collected in entrainment sampling and estimated entrainment was 15.4 percent. Freshwater drum larval entrainment was estimated to be 45.4 percent, the highest for any of the significant taxa. Overall larval entrainment was estimated to be 15.6 percent during 2004.

Entrainment estimates for total larvae in 2004 were higher than those from historical samples colleted during 1981 through 1985. Historical fluctuations in rates of entrainment and recent Reservoir Fish Assemblage Index evaluations indicate the Chickamauga Reservoir near SQN supports a balanced and diverse indigenous fish community with no significant impacts observed from current plant operation.

Introduction

Section 316(a) of the Clean Water Act allows point-source dischargers of heated water to obtain a variance from state water quality standards if the point-source can demonstrate maintenance of balanced indigenous populations (BIP) of aquatic life. Compliance requires permittee to characterize the aquatic community in the vicinity of the intake structure prior to operation; monitoring during normal operation to assess impacts; and periodically review current operational demands, reservoir operation, and condition of the aquatic community to ensure no significant changes have occurred. Two potential impacts associated with cooling water intake structures are impingement and entrainment. Impingement occurs when aquatic organisms are trapped against the intake structure (traveling screens) by the withdrawal of cooling water and entrainment occurs when organisms are drawn through the intake structure into the plant cooling system.

Sequoyah Nuclear Plant's (SQN) current National Pollutant Discharge Elimination System (NPDES) permit number TN0026450 states, "For Section 316(b), the permittee shall summarize previous data and indicate whether significant changes have occurred in plant operation, reservoir operations or instream biology that would necessitate significant changes to the variance." In 1991, the Tennessee Valley Authority (TVA) implemented changes in TVA reservoir operations to maintain minimum flows below dams at critical times and locations. These changes were the result of the Tennessee River and Reservoir System Operation and Planning Review (TVA 1991). Other changes included increasing dissolved oxygen below 16 dams by aerating releases, and to delay unrestricted summer drawdown until August 1 on ten tributary reservoirs. Further changes in reservoir operation policy were implemented in 2005 as a result of TVA's Reservoir Operations Study and Environmental Impact Statement (TVA 2004).

During operational monitoring at SQN from 1981 through 1985, the average hydraulic entrainment was estimated to be 8.6 percent. During this period, the average entrainment of total fish larvae was estimated to be 2.8 percent of those passing the plant. In order to compare current level of larval fish and hydraulic entrainment with data collected during operational monitoring, ichthyoplankton sampling was conducted during April through July 2004. The purpose of this document is to summarize and provide Tennessee Department of Environment and Conservation the results and comparisons between current and historical entrainment monitoring data.

RESERVOIR AND PLANT OPERATION DURING 2004

Chickamauga Reservoir Operation

Surface elevation of Chickamauga Reservoir and river flow past SQN is dependent on the rate water is released through Watts Bar and Chickamauga Dams. TVA's integrated approach to Chickamauga Reservoir operation includes winter drawdown for flood control, minimum summer pools, and hydroelectric power generation. In 2004, average daily surface elevation of Chickamauga forebay ranged from 206.0 m above mean sea level (AMSL) to 209.5 m AMSL (Figure 1). Daily river flow past SQN ranged from 159 m^3/s to 2634 m^3/s in 2004 (Figure 2).

On May 18, 2004, the daily average release from Chickamauga Hydro was zero cubic feet per second (cfs) while the release from Watts Bar Hydro was 7100 cfs. This unusual situation resulted in essentially zero or negative flow past SQN.

Sequoyah Operation

SQN Units 1 and 2 were both in operation during the 2004 entrainment sampling (Figure 3). The combined generation rate for Units 1 and 2 averaged 2081 megawatts in 2004. The average daily withdrawal rate (hydraulic entrainment) of CCW from Chickamauga Reservoir during 2003 and 2004 was 86 m^3/s (Figure 4). However, CCW demand during entrainment sampling (April 27 through July 12, 2004) reflected normal operation, averaging 91 m^3/s.

Methods

Sample Collection

Larval sampling began on April 20 and continued through July 12, 2004. Ichthyoplankton samples provided temporal abundance of larval fish and eggs at five stations along a transect perpendicular to river flow just upstream of the plant intake channel at Tennessee River Mile (TRM) 485 (Figure 5). Seven samples were collected weekly during both day and night. Samples consisted of one full-stratum sample from both left and right overbanks, three samples from the mid-channel area with one taken from surface to mid-depth, one from mid-depth to bottom and one towed near bottom for the duration of the sample. In addition, two replicate, 20-minute full-stratum samples were collected along the intake skimmer wall.

Samples were collected with a beam net (0.5 m square, 1.8 m long, with 505 micron "nitex" mesh netting) towed upstream at a speed of 1.0 m/s for ten minutes. The volume of water filtered through the net was measured with a large-vaned General Oceanics flowmeter®. Approximately 150 m^3 of water were filtered per ten minute sample. Intake samples were collected by lowering the net to the bottom and gradually raising the net during the 20 minutes to the depth of the skimmer wall (approximately 16-17 meters). Approximately 40-50 m^3 of water were filtered per intake sample. Water temperature was recorded using a mercury thermometer calibrated to the tenth degree Celsius.

Laboratory and Data Analysis

Laboratory Analysis

Larval fish and eggs were removed from the samples, identified to the lowest possible taxon, counted and measured to the nearest millimeter total length following procedures outlined in NROPS-FO-BR-24.1 (TVA 1983). Taxonomic decisions were based on TVA's "Preliminary Guide to the Identification of Larval Fishes in the Tennessee River," (Hogue et al., 1976) and other pertinent literature.

The term "unidentifiable larvae" applies to specimens too damaged or mutilated to identify, while "unspecifiable" before a taxon implies a level of taxonomic resolution (e.g., "unspecifiable catostomids" designates larvae within the family Catostomidae that currently cannot be identified to a lower taxon). The category "unidentifiable eggs" applies to specimens that cannot

be identified due to damage or lack of taxonomic knowledge. Taxonomic refinement is a function of specimen size and developmental stage. Throughout this report, the designation "unspecifiable clupeids" refers to clupeids less than 20 mm in total length and could include *Dorosoma cepedianum* (gizzard shad), *D. petenense* (threadfin shad), and/or *Alosa chrysochloris* (skipjack herring). Any clupeid specimens identified to species level represent postlarvae 20 mm or longer in total length.

Developmental stage of moronids also determines level of taxonomic resolution. *Morone saxatilis* (striped bass) hatch at a larger size than either *M. chrysops* (white bass) or *M. mississippiensis* (yellow bass). Although it is currently impossible to distinguish between larvae of the latter two species, *M. saxatilis* can be eliminated as a possibility based on developmental characteristics of specimens 6 mm or less in total length (hence, the taxonomic designation *Morone*, not *saxatilis*). Specimens identified as *Morone spp*. are greater than 6 mm total length.

Data Analysis

Temporal occurrence and relative abundance of eggs and larvae by taxon are presented and discussed for the entire monitoring period. Densities of fish eggs and larvae are expressed as numbers per 1000 m^3 of water sampled.

Estimated entrainment of fish eggs and larvae at SQN was calculated by the following method: densities of eggs and larvae transported past the plant were estimated for each sample period by averaging densities (all stations) of eggs and larvae from TRM 485 and multiplying by the corresponding 24-hour flow past the plant. Percentage of transported ichthyofauna entrained by the plant was estimated from the formula:

$$E = 100 \frac{D_i Q_i}{D_r Q_r}$$

where D_i = mean density (N/1000 m^3) of eggs or larvae in intake samples;

D^r = mean density (N/1000 m3) of eggs or larvae in river (TRM 485 transect);

Q_i = plant intake water demand (m^3/d);

Q_r = river flow (m^3/d).

Results and Discussion

During twelve sample periods in 2004, the average volume of water filtered each period was 232.7 m^3 for intake samples and 876.6 m^3 for reservoir samples (Table 1). A list of families of fish eggs and larvae collected during 2004 including the lowest level of taxonomic resolution is presented in Table 2.

Fish Eggs

Freshwater drum eggs comprised 98.8 percent of the total fish eggs and were collected during all twelve sample periods (Table 3), demonstrating the extended spawning season for this species. Densities peaked on May 25 at 24,367/1000 m^3 in reservoir samples and on June 2 at 1,594/1000 m^3 in samples collected near the intake (Table 4) (Figure 6). Average seasonal densities for drum eggs were 549 and 652/1000 m^3 in the intake and reservoir samples respectively (Table 5).

Larval Fish

Relative abundance for all taxa of larval fish collected during the twelve weekly sample periods of 2004 (Table 3) was dominated by clupeids (87.9%), *Morone* (5.5%), freshwater drum (3.2%) and centrarchids (3.1%). Total number of larvae collected for the four dominant taxa was 51,350 and total collected for all taxa was 52,881. A comparison of densities of total fish larvae by sample period between intake and reservoir samples is presented in Figure 7.

Peak densities of clupeid larvae (primarily gizzard and threadfin shad) occurred on April 27 in reservoir samples (20,570/1000 m^3) and on May 3 in intake samples (15,464/1000 m^3) (Table 4). Following the high densities in late April and early May, clupeid densities decreased dramatically through the remainder of the sampling period with a slight increase observed during early June (Figure 8). Average seasonal density for clupeids was 2,249/1000 m^3 for intake and 3,465/1000m^3 for reservoir samples (Table 5).

Larval *Morone* were collected from the first sample period (April 20) through June 9, 2004. Densities of *Morone* (white and yellow bass) larvae also peaked on April 27 (Figure 9) at 1,558 and 277/1000m^3 in the reservoir and intake samples respectively. Average seasonal densities of larval *Morone* were 52/1000 m^3 in intake samples and 247/1000 m^3 in reservoir samples (Table 5).

Centrarchid (*Lepomis and Pomoxis*) larvae were first collected on April 27 and were present in samples throughout the remainder of the sampling season (Figure 10). Peak densities of 897/1000 m^3 occurred in the reservoir samples on June 2 and 1,027/1000 m^3 occurred on June 15 in the intake samples (Table 4). Centrarchid larvae exhibited similar average seasonal densities in both intake (131/1000 m^3) and reservoir samples (128/1000 m^3).

Freshwater drum larvae were first collected on April 27 and were present in samples throughout the remainder of the sampling season. Densities peaked on May 18 at 717/1000 m^3 in the intake samples and on June 9 at 379/1000 m^3 in reservoir samples (Table 4). Average seasonal densities were 200/1000m^3 in intake and 104/1000 m^3 in reservoir samples (Table 5).

Average seasonal densities for all taxa collected are presented in Table 5.

Hydraulic Entrainment Estimates

Hydraulic entrainment by SQN during the twelve sampling periods in 2004 averaged 24.2 percent with a range of 7.4 to 111.1 percent (Table 6). The peak hydraulic entrainment occurred on May 18 and the lowest was recorded on June 30. The entrainment estimate of 111.1 percent on May 18 was a result of zero release at Chickamauga Dam and 7,100 cfs average release from Watts Bar Dam.

Fish Egg and Larvae Entrainment Estimates

Estimated total transport of fish eggs (98.8% drum eggs) past SQN during 12 sample periods in 2004 was 5.4 billion. The seasonal entrainment estimate for drum (Sciaenid) eggs was 11.2 percent (Table 7).

Estimated total transport of fish larvae past SQN during 12 sample periods in 2004 was 9.8 billion. Clupeid larvae comprised 87.9 percent of this total and were entrained at a rate of 15.4 percent of the total passing the plant. The overall estimated rate of entrainment for total fish larvae was 15.6 percent, obviously driven by clupeids as the most dominant taxon. Average seasonal densities of clupeids in intake vs. reservoir samples were 2,249 and 3,465/1000 m^3 respectively (Table 5).

Estimated entrainment of freshwater drum larvae was 45.4 percent. The two highest densities of drum larvae were both observed in intake samples on May 18 and on June 02. The peak density of 717/1000 m^3 at the intake on May 18 occurred coincidentally when the hydraulic entrainment estimate also peaked at 111.1 percent. Overall, densities of freshwater drum larvae were higher in intake samples than channel samples during 8 out of 12 sample periods (Figure 11).

The entrainment estimate for Centrarchids (primarily sunfish and crappie larvae) was 24.2 percent of those passing the plant. Average seasonal density was similar at both intake (131/1000 m^3) and reservoir (128/1000 m^3) samples (Table 5).

Morone larvae were the only other significant taxon with estimated entrainment over one percent (Table 5). An estimated five percent of *Morone* larvae passing SQN during 2004 were entrained.

Cyprinid (minnows) larvae were collected in very low numbers evidenced by seasonal densities of 7 and 2/1000 m^3 in intake and reservoir samples respectively. Higher densities in intake samples resulted in an estimate of 72.6 percent entrainment for this taxon (Table 6).

DISCUSSION WITH HISTORICAL COMPARISONS

Sample methods used to collect fish eggs and larvae during 2004 were only slightly different than those used in 1985 (TVA 1986 and TVA 1987). Seasonal mean hydraulic entrainment was 12.2 percent in 1985 compared to 24.2 percent in 2004. Higher hydraulic entrainment was likely the result of lower reservoir flow rate caused by lower than average runoff from rainfall. This also influenced the total entrainment rate of 15.6 percent for larval fish which was the highest ever recorded.

Estimated entrainment of freshwater drum eggs was 11.2 percent in 2004 compared to 16.6 percent in 1985. Drum larval entrainment was estimated at 30.2 percent in 1985 compared to 45.4 percent in 2004. Considering that hydraulic entrainment doubled from 1985 to 2004, this increased rate of entrainment estimated for drum larvae could be expected. Table 8 compares historical fish egg and larval entrainment estimates between 1981 through 1985 with the recent estimates during 2004. Historical data led to the conclusion that significant spawning by freshwater drum occurs in the vicinity of, or slightly downstream of SQN, producing eggs and larvae that are not subjected to plant entrainment. Even though seasonal larval drum entrainment was abnormally high (45.4%) during 2004, it was primarily attributed to the May 18 sample period when the peak density occurred simultaneously with peak hydraulic entrainment (111 %).

Chickamauga Reservoir Fish Community

Industries responsible for point-source discharges of heated water can obtain a variance from state water quality standards if the industry can demonstrate compliance with thermal criteria by documenting the maintenance of BIP of aquatic life in the vicinity of its discharge. SQN's current NPDES permit number TN0026450 states, "For Section 316(a), the permittee shall summarize previous data and indicate whether significant changes have occurred in plant operation, reservoir operations or in stream biology that would necessitate significant changes to the permitted variance." The permittee shall use the Reservoir Fish Assemblage Index (RFAI) to assess Chickamauga Reservoir fish community health. Any apparent declines in the fish community health will be further investigated to discover whether the decline is a valid conclusion and if the decline is real and to identify possible sources for the fish community decline. As part of the identification of potential sources for the decline, the instream effects of the discharges made under this permit will be investigated (TDEC 2000). In response to this requirement, TVA's Vital Signs (VS) monitoring program (Dycus and Meinert 1993) will be used to evaluate areas of Chickamauga Reservoir upstream and downstream of SQN discharge. Reservoirs are typically divided into three zones for VS Monitoring – inflow, transition and forebay. The inflow zone is generally in the upper reaches of the reservoir and is riverine in nature; the transition zone or mid-reservoir is the area where water velocity decreases due to increased cross-sectional area, and the forebay is the lacustrine area near the dam. The Chickamauga Reservoir inflow zone sample site is located at TRM 529.0; the transition zone sampling site is located at TRM 490.5 and the forebay zone sampling site is located at TRM 472.3. The VS transition zone, which is located approximately 7.2 river miles upstream of the SQN discharge (TRM 483.3), will be used to provide upstream data for the 316(a) thermal variance studies performed in sample years between 1993 and 2005. An additional transition station was later added downstream of the SQN discharge to more closely monitor Chickamauga Reservoir aquatic communities in close proximity to the SQN thermal effluent. This station is located at TRM 482.0 and will be used for downstream comparisons of aquatic communities for the 1999 through 2005 sample seasons. The forebay zone, will serve as the downstream station for 1993 through 1995 and 1997 sample seasons.

Sport Fishing Index

In the past, the Sport Fishing Index (SFI) was used in support of a thermal variance request at SQN (TVA 1996). The SFI was developed to quantify sport fishing quality for individual sport fish species. The SFI provides biologists with a reference point to measure the quality of a sport fishery. Comparison of the population sampling parameters and creel results for a particular sport fish species with expectations of these parameters from a high quality fishery (reference conditions) allows for the determination of fishing quality. Indices have been developed for black bass (largemouth, smallmouth and spotted bass), sauger, striped bass, bluegill, and channel catfish. Each SFI relies on measurements of quantity and quality aspects of angler success and fish population characteristics.

In recent years, SFI information has been used to describe the quality of the resident fishery in conjunction with compliance monitoring, thermal variance requests, and other regulatory issues at TVA nuclear plants in Tennessee. Similar NPDES compliance monitoring programs using the methodologies described above are also being performed at Browns Ferry Nuclear, Colbert and Widows Creek Fossil Plants in Alabama.

The TVA Spring Sport Fish Survey is conducted to evaluate the sport fish population of TVA Reservoirs. The results of the survey are used by state agencies to protect, improve and assess the quality of sport fisheries. Predominant habitat types in the reservoir are surveyed to determine sport fish abundance. In addition to accommodating TVA and state databases, this surveying method aligns with TVA Watershed Team and TVA's Reservoir Operations Study objectives. Sample sites are selected using the shoreline habitat characteristics employed by the Watershed Teams. The survey predominantly targets three species of black bass (largemouth, smallmouth, and spotted bass) and black and white crappie. These species are the predominant sport fish sought after by fisherman.

In the autumn of 2004, Chickamauga Reservoir's sport fish population received similar RFAI scores (Table 9) compared to the eight year average (TVA 2006). Largemouth bass, smallmouth bass, spotted bass, crappie, bluegill, and channel catfish received higher scores than their seven year averages (Figure 12). Channel catfish, largemouth bass, and bluegill received their highest SFI scores to date. Crappie and black bass received lower scores in 2004 compared to scores in 2003. This quality assessment is not necessarily indicative of a trend and historical data indicate that SFI scores typically vary among years. However if future scores would continue to decline, further investigation would be warranted.

CONCLUSIONS

Both historical data and the 2004 sampling results demonstrate the significant variability in the occurrence and spatial-temporal distribution of larval fish in Chickamauga Reservoir near SQN. This variability translates into significant fluctuation in the entrainment rates associated with plant operation. Factors contributing to these fluctuations include:

- Proximity of intake to spawning and nursery areas
- Seasonality and period of occurrence
- Vertical distribution/movement
- Cross-sectional or horizontal distribution
- Diel distribution
- Life-stage/swimming ability
- Growth rate
- Physical parameters and operation of Chickamauga Reservoir in the vicinity of SQN

In calculating entrainment estimates, one or two species usually comprise a high percentage of the total composition, as is the case with clupeids and freshwater drum in the vicinity of SQN. Freshwater drum spawn in open water while shad spawn near shore and each female produces thousands of eggs, creating areas in the reservoir with high densities of fish eggs and early larvae. As these high density pulses of eggs and larvae drift downstream, their occurrence within a sampling area (either near the plant intake or in the open reservoir) may significantly affect individual entrainment estimates.

The 2004 316(b) data and recent fish community assessments in Chickamauga Reservoir near SQN show no significant impacts from current operation of SQN on the fish community near the plant. Furthermore, current 316(b) data support conclusions presented in the 1986 historical assessments. Results demonstrate annual variations in the relative abundance and spatial-temporal distribution of fish and fluctuations in reservoir flow are common in the vicinity of SQN. Life history aspects and dynamics of drifting larvae and fluctuation in reservoir flow past SQN are significant factors influencing variations observed in the annual entrainment estimates. These variations in fish density and reservoir flow in the Chickamauga transition zone have apparently had little affect on the fish community. Based on the 2004 316(b) evaluation and the annual RFAI and SFI scores for Chickamauga Reservoir, a viable balanced indigenous fish community is present in Chickamauga Reservoir in the vicinity of SQN.

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Table 1. Total Volume of Water Filtered by Sample Period at Sequoyah Nuclear Plant during 2004 to Estimate Entrainment of Fish Eggs and Larvae.

Sample Date	2004		
	Intake m^3	Reservoir m^3	Total m^3
Apr 27	216.7	965.5	1182.2
May 4	271.6	1067.7	1339.3
May 10	299.4	833.8	1133.2
May 18	346.1	799.8	1145.9
May 25	276.4	822.1	1098.5
Jun 2	209.6	901.9	1111.5
Jun 9	97.7	939.0	1036.7
Jun 15	189.9	738.5	928.4
Jun 23	254.5	884.1	1138.6
Jun 30	228.0	688.1	916.1
Jul 7	260.4	977.6	1238.0
Jul 12	142.0	901.3	1043.3
Total	**2792.3**	**10519.4**	**13311.7**
Average	**232.7**	**876.6**	**1109.3**

Table 2. List of Fish Eggs and Larvae by Family Collected at Sequoyah Nuclear Plant in 2004 Entrainment Samples and Lowest Level of Taxonomic Resolution for each Family.

Scientific Name	Common Name	Lowest Level of Taxonomic Identification
Clupeidae	**Shad**	**Family** - all larvae < 20 mm TL. **Genus or species** -larger individuals to *Alosa* spp.- alewife, skipjack, *Dorosoma* spp. - gizzard and threadfin shad.
Cyprinidae	**Minnows and Carps**	**Family –** most minnows, shiners, and chubs **Genus or species** -common carp, golden shiner, and larger individuals to emerald shiner, mimic shiner, *Pimephales* spp.
Catostomidae	**Suckers**	**Subfamily** - ictiobines (buffalo and carpsuckers) **Genus** - Larger individual to buffalo.
Ictaluridae	**Catfishes**	**Species** - Blue, Channel
Moronidae	**Temperate basses**	**Genus** -most larval life phases **Species** - yolk-sac larvae ≥ 5 mm TL (striped bass), larger individuals to white, yellow, and striped bass.
Centrarchidae	**Sunfishes**	**Genus** - crappie, lepomids (sunfishes), and black bass. **Species** - larger individuals to largemouth bass.
Sciaenidae	**Drums**	**Species**. freshwater drum
Unspecified Larvae and Eggs		Identification to family was not possible. Limiting factors were size, stage of development, and season when egg was collected.

Table 3. Percent Composition of Fish Eggs and Larvae by Family in Entrainment Samples at Sequoyah Nuclear Plant during 2004.

	Intake Samples %	Reservoir Samples %	All Samples %
Eggs			
Unspecified	0.0	1.9	1.2
Sciaenidae	100.0	98.1	98.8
Larvae			
Clupeidae	85.2	87.8	87.9
Cyprinidae	0.3	0.1	0.2
Catostomidae	**T**	**T**	**T**
Ictaluridae	**T**	**T**	**T**
Moronidae	2.0	6.3	5.5
Centrarchidae	5.0	3.3	3.1
Sciaenidae	7.6	2.6	3.2

T – Taxon was collected in samples but composition was less than 0.1%.

Table 4. Peak Densities and Sample Dates by Family for Fish Eggs and Larvae from Intake and Reservoir Entrainment Samples Collected at Sequoyah Nuclear Plant during 2004.

	Peak Density Number/1000 m^3			
	Intake/ Skimmer Wall	**Sample Date D=Day N=Night**	**Reservoir**	**Sample Date D=Day N=Night**
EGGS				
Family				
Sciaenidae	1,594	June 2	4,433	May 25
LARVAE				
Family				
Clupeidae	15,464	May 3	20,570	April 27
Cyprinidae	28	April 27	6	April 27
Catostomidae	0	-	7	June 15
Ictaluridae	0	-	2	June 9
Moronidae	277	April 27	1,558	April 27
Centrarchidae	1,027	June 15	897	June 2
Sciaenidae	717	May 18	379	June 9

Table 5. Average Seasonal Density of Fish Eggs and Larvae in Entrainment Samples at Sequoyah Nuclear Plant during 2004.

	Intake Samples 1000 m^3	Reservoir Samples 1000 m^3	All Samples 1000 m^3
Eggs			
Unspecified	0	12	6
Sciaenidae	549	652	618
Totals:	549	664	627
Larvae			
Clupeidae	2249	3465	3221
Cyprinidae	7	2	3
Catostomidae	0	**T**	**T**
Ictaluridae	0	**T**	**T**
Moronidae	52	247	204
Centrarchidae	131	128	128
Sciaenidae	200	104	129
Totals:	**2639**	**3946**	**3685**

T – Taxon was collected in samples but density averaged less than 1 individual per 1000 m^3.

Table 6. Estimated Daily Hydraulic Entrainment by Sample Period at Sequoyah Nuclear Plant during 2004.

Sample Date	Volume		
	Intake m^3 day	Reservoir m^3 day	Entrained
	Q_i	Q_r	%
Apr 27	5.90E+06	2.50E+07	23.6%
May 4	6.00E+06	5.50E+07	10.9%
May 10	6.00E+06	5.40E+07	22.2%
May 18	6.00E+06	5.40E+06	111.1%
May 25	6.1.0E+06	2.10E+07	29.0%
Jun 02	6.00E+06	1.80E+07	33.3%
Jun 09	6.00E+06	6.70E+07	9.0%
Jun 15	6.00E+06	4.60E+07	13.0%
Jun 23	6.10E+06	5.90E+07	10.3%
Jun 30	6.10E+06	8.20E+07	7.4%
Jul 07	6.10E+06	5.70E+07	10.7%
Jul 12	6.10E+06	6.20E+07	9.8%
Average	**6.03E+06**	**4.37E+07**	**24.2%**

Table 7. Seasonal Entrainment Estimates for Numerically Significant Fish Taxa Collected at Sequoyah Nuclear Plant during 2004.

Taxa	Intake Number Entrained Per Day $Q_i X D_i$	Reservoir Total Number Per Day $Q_r X D_r$	Entrainment Estimate %
Eggs			
Sciaenidae	6.10E+09	5.40E+10	11.2
Totals:	**6.10E+09**	**5.40E+10**	**11.2**
Larvae			
Clupeidae	1.30E+10	8.60E+10	15.4
Cyprinidae	4.30E+07	5.90E+07	72.6
Catostomidae	0.00E+00	1.40E+07	0.0
Ictaluridae	0.00E+00	6.50E+06	0.0
Moronidae	3.10E+08	6.20E+09	5.0
Centrarchidae	7.70E+08	3.20E+09	24.2
Sciaenidae	1.20E+09	2.60E+09	45.4
Totals:	**1.53E+10**	**9.81E+10**	**15.6**

Table 8. Historical and Current Entrainment Percentages for Fish Eggs and Larvae at Sequoyah Nuclear Plant during 1981-1985 and 2004.

	1981	1982	1983	1984	1985	2004
Freshwater Drum Eggs	6.7	41.4	22.6	9.7	16.6	11.2
Larvae						
Clupeidae	2.1	1.5	2.7	1.8	1.1	15.4
Cyprinidae	4.3	4.2	5.9	2.3	3.1	72.6
Catostomidae	0.0	0.0	6.1	2.6	0.0	0.0
Ictaluridae	8.4	7.7	9.1	45.9	27.8	0.0
Moronidae	1.7	2.7	4.8	2.2	2.46	5.0
Centrarchidae	1.0	1.8	1.1	0.6	0.7	24.2
Percidae	3.6	1.6	10.7	1.6	3.5	0.0
Sciaenidae	5.5	25.6	57.8	22.7	30.2	45.4
Total Larvae	**2.3**	**2.2**	**4.7**	**2.3**	**2.6**	**15.6**

Table 9. Recent (1993-2005) RFAI Scores Collected as Part of the Vital Signs Monitoring Program Upstream and Downstream of Sequoyah Nuclear Plant.

Station	Reservoir	Location	1993	1994	1995	1997	1999	1993-1999 Average	2000*	2001	2002*	2003	2004	2005	1993-2005 Average
Upstream	Chickamauga	TRM 490.5	49	40	46	39	45	44 (Good)	46	45	51	42	49	48	45 (Good)
Sequoyah Transition	Chickamauga	TRM 482.0					41	41 (Good)	48	46	43	45	41	39	43 (Good)
Forebay	Chickamauga	TRM 472.3	44	44	47	39	45	44 (Good)	45	48	46	43	43	46	45 (Good)

*The 2000, and 2002, sample years were not part of the VS monitoring program, however the same methodology was applied.

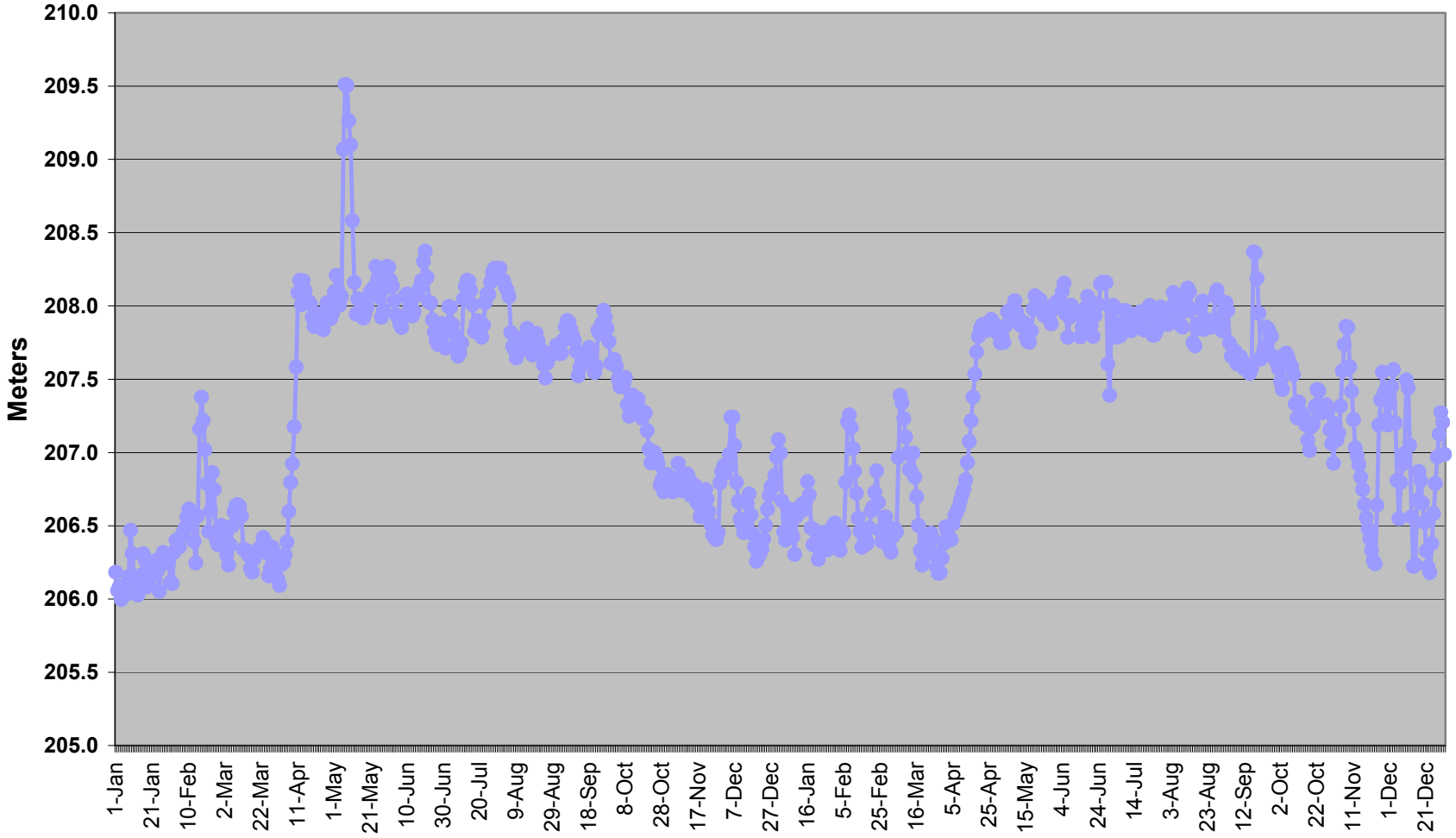

Figure 1. Average daily surface elevation (meters above mean sea level) of Chickamauga Reservoir during 2004.

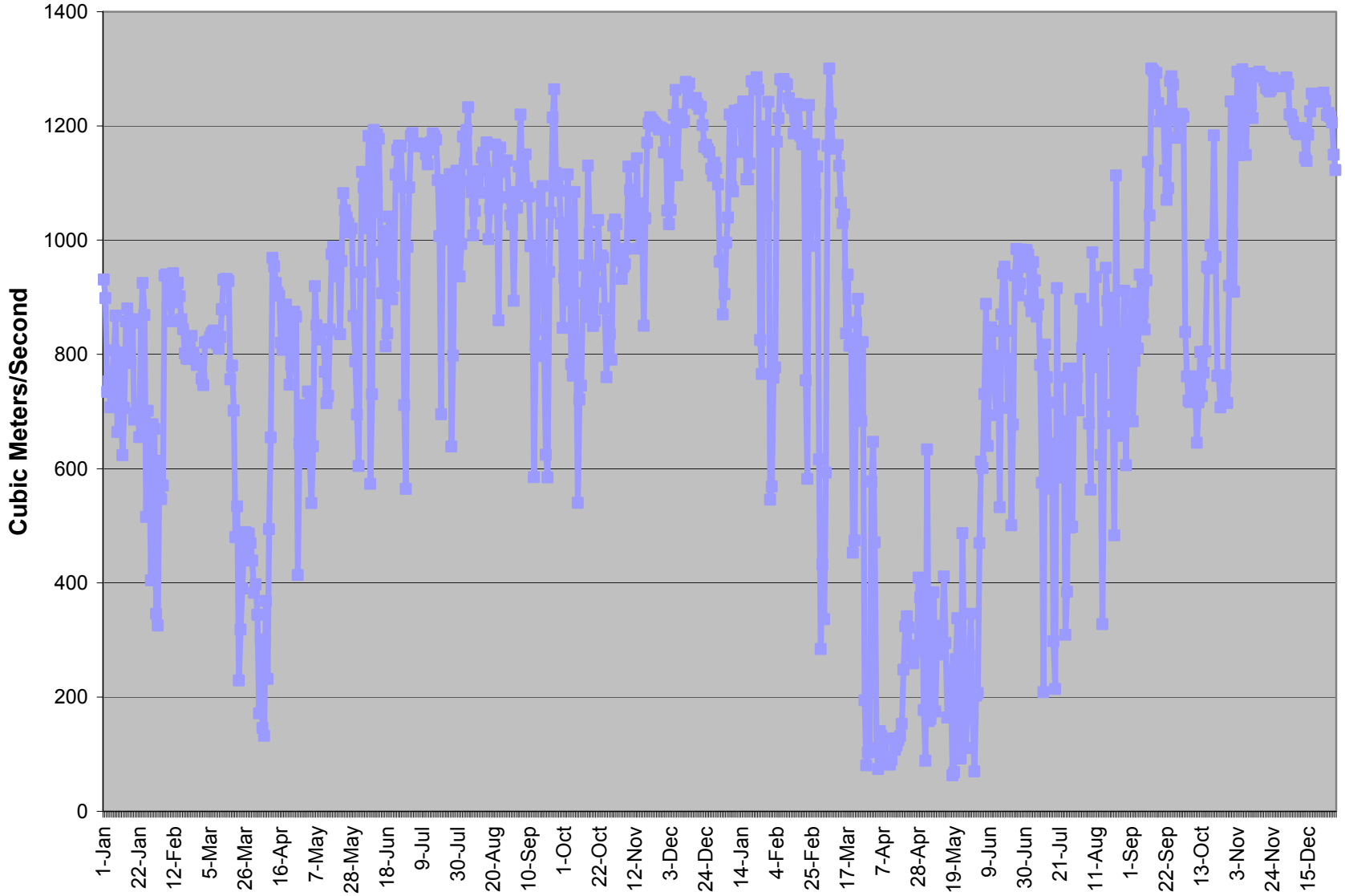

Figure 2. Average daily rate of flow in Chickamauga Reservoir during 2003 and 2004.

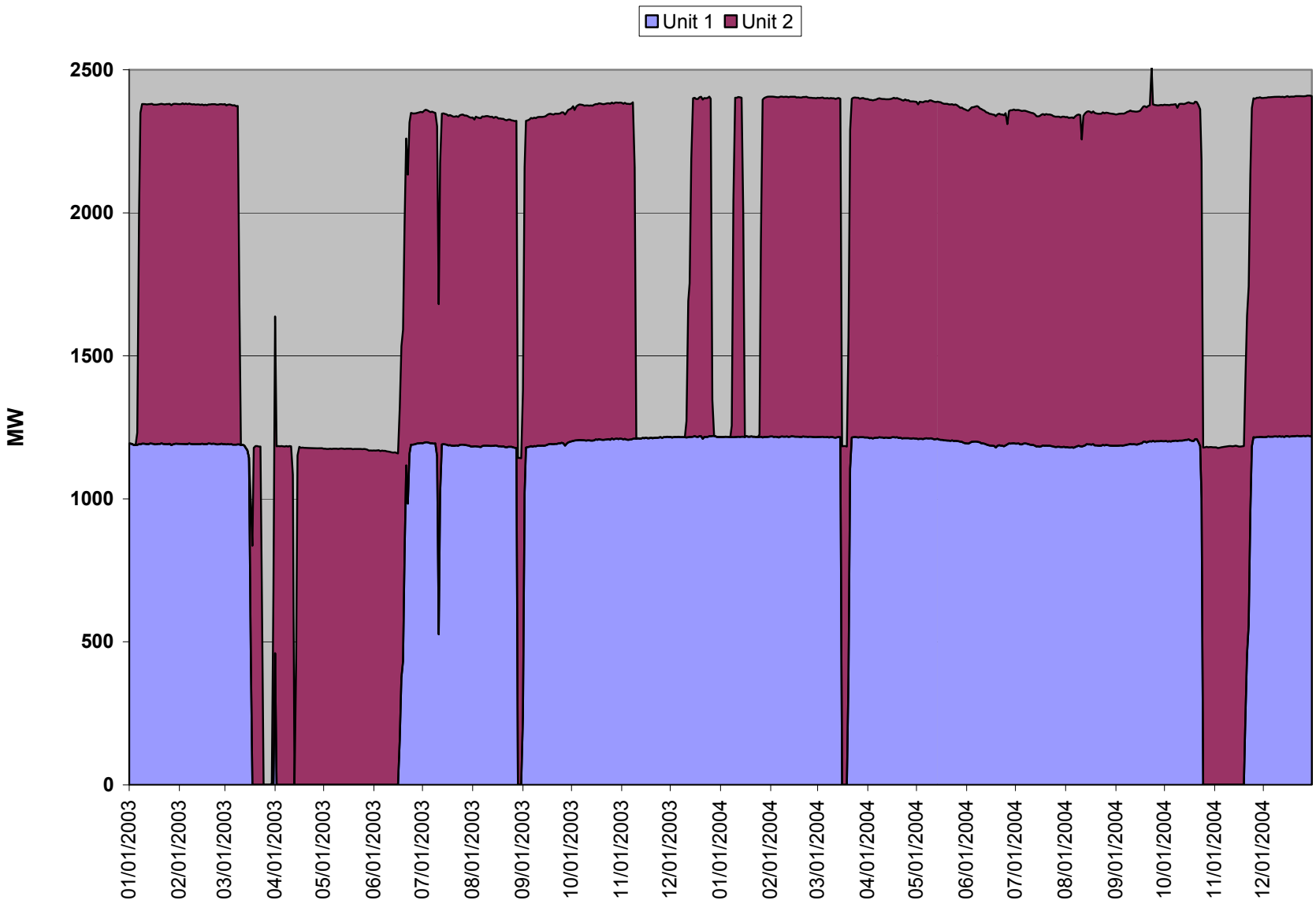

Figure 3. Average daily rate of generation at Sequoyah Nuclear Plant during 2003 and 2004.

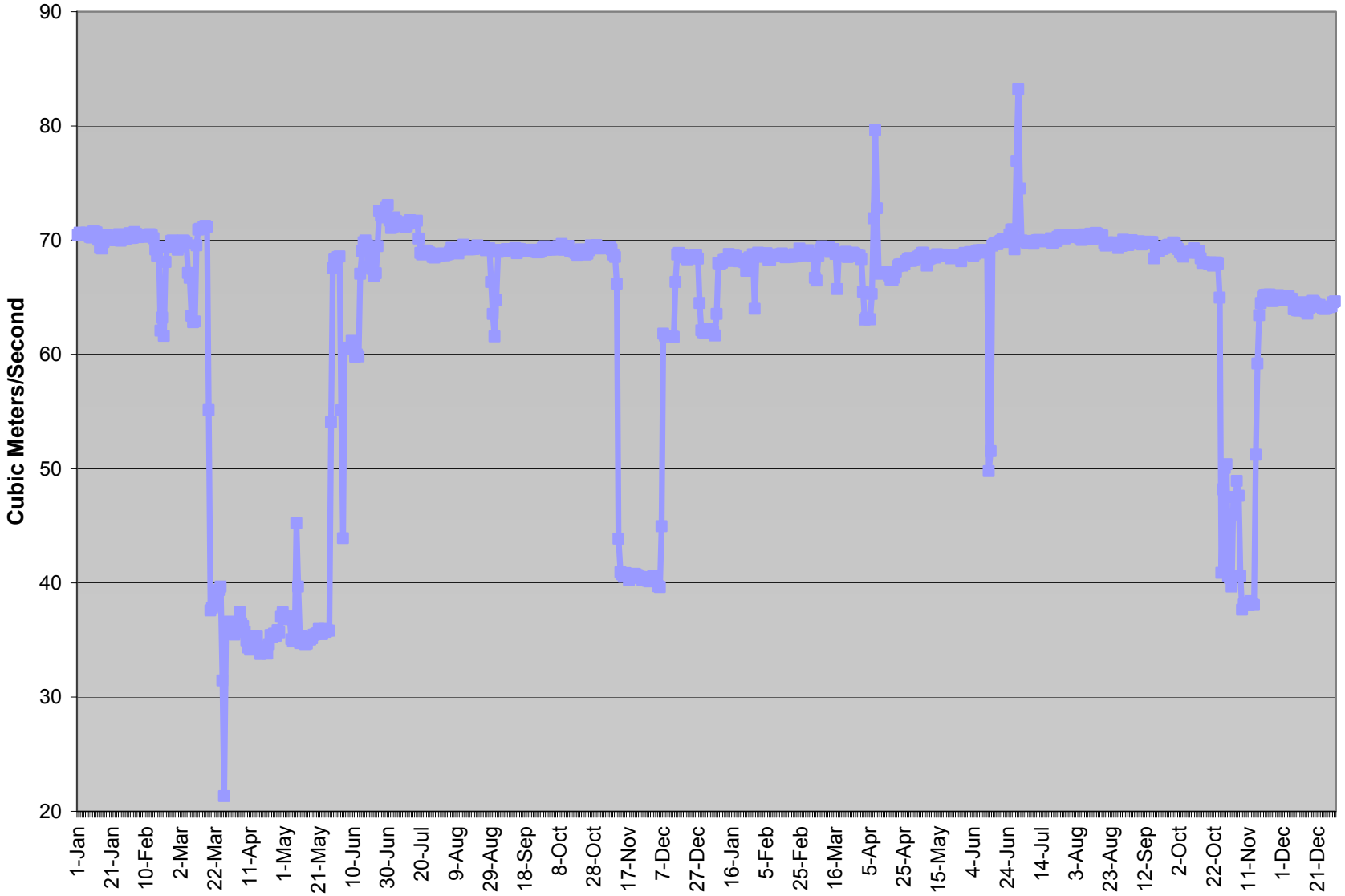

Figure 4. Average daily rate of hydraulic entrainment at Sequoyah Nuclear Plant during 2003 and 2004.

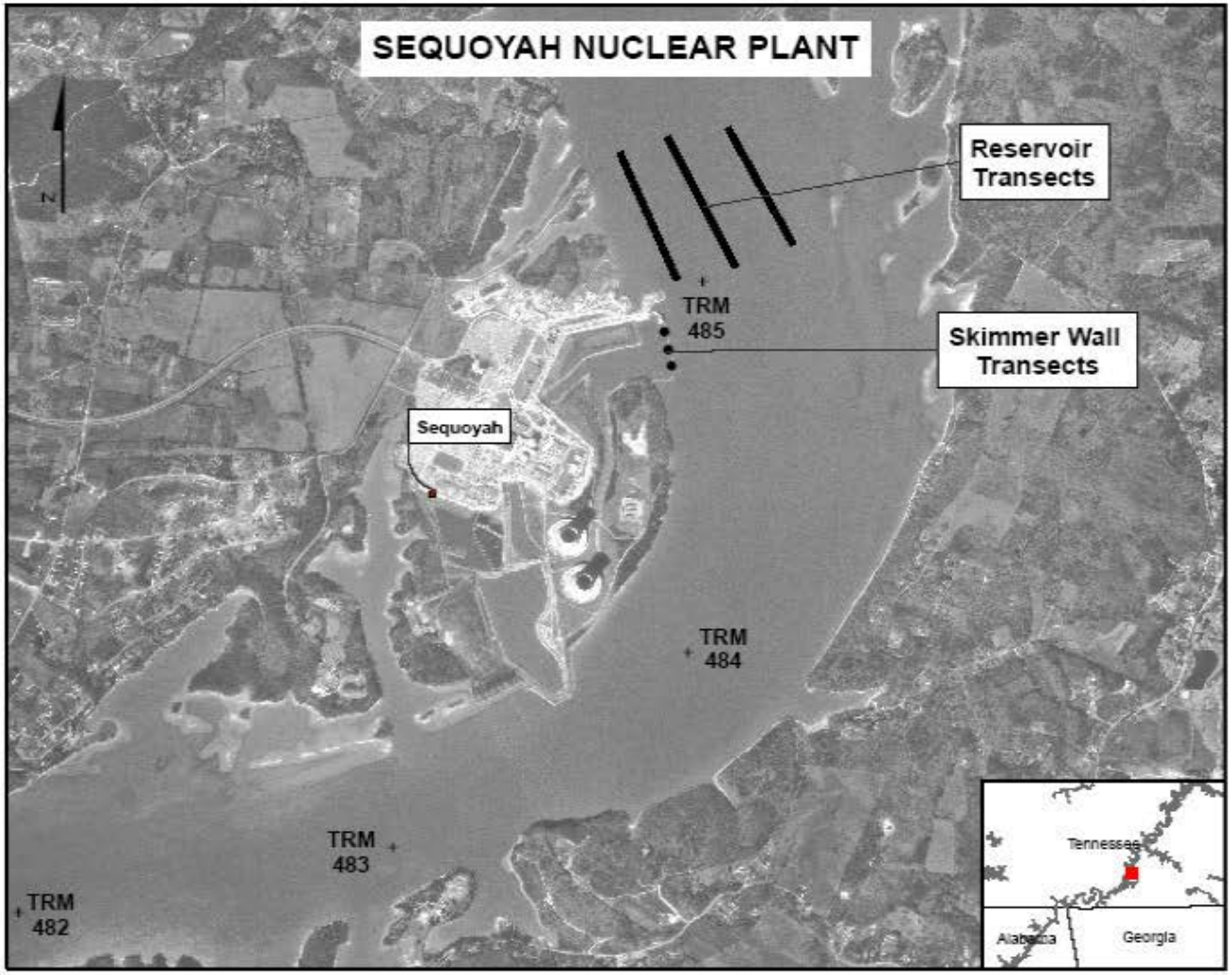

Figure 5. Map of entrainment sample transects in the vicinity of Sequoyah Nuclear Plant during 2004.

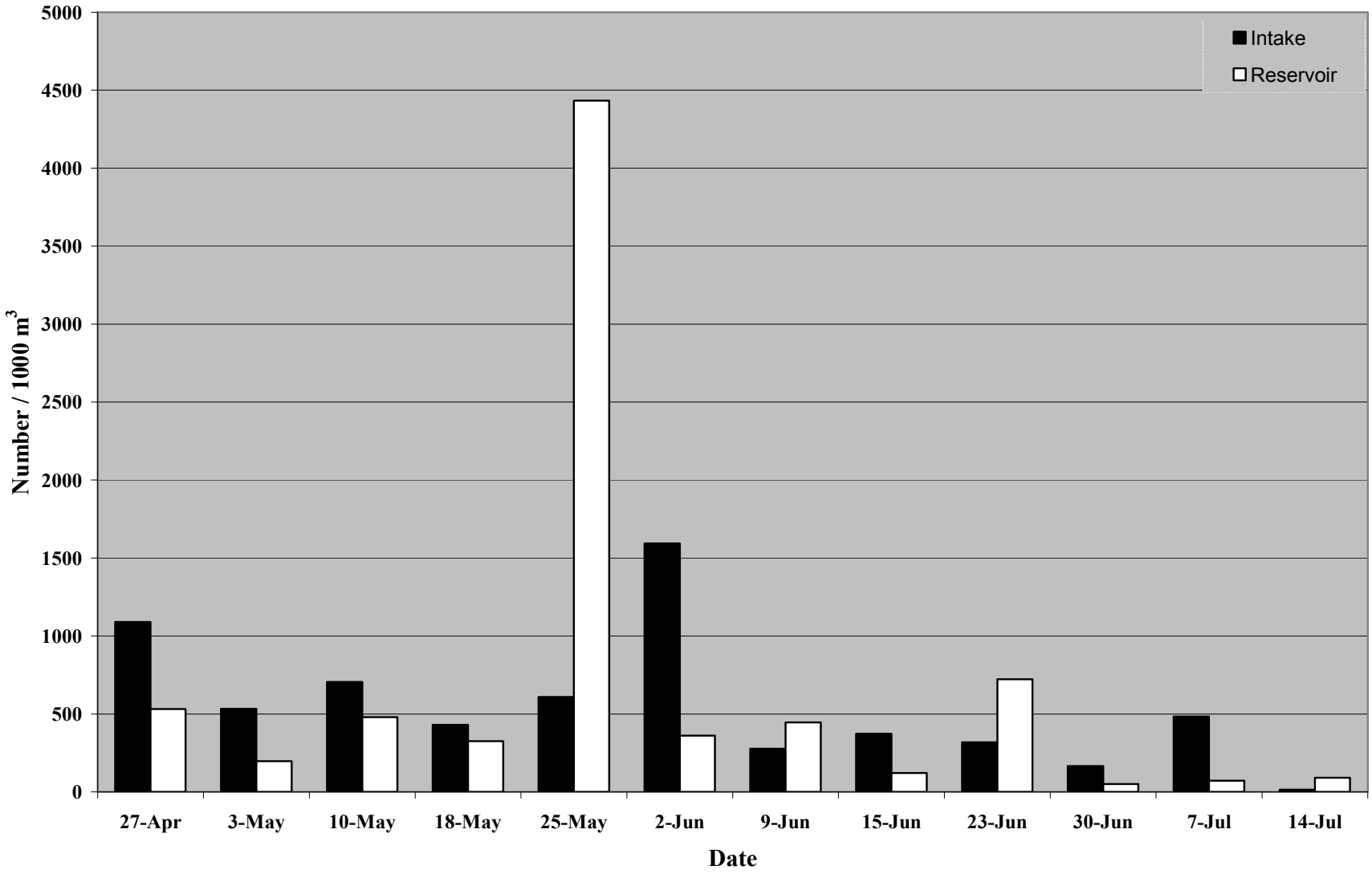

Figure 6. Densities of sciaenid eggs collected in intake and reservoir entrainment samples at Sequoyah Nuclear Plant during 2004.

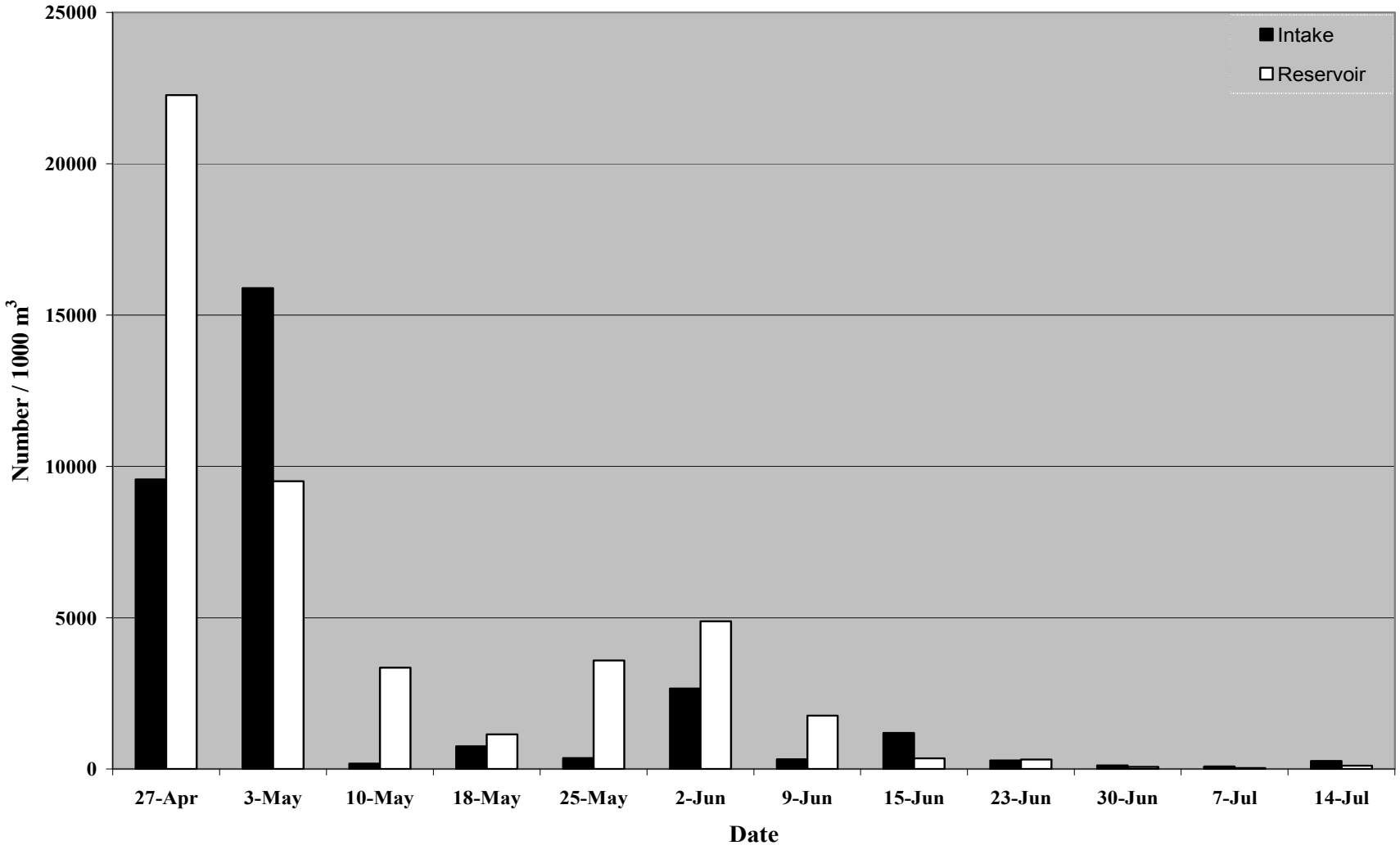

Figure 7. Densities of total larval fish collected in intake and reservoir entrainment samples at Sequoyah Nuclear Plant during 2004.

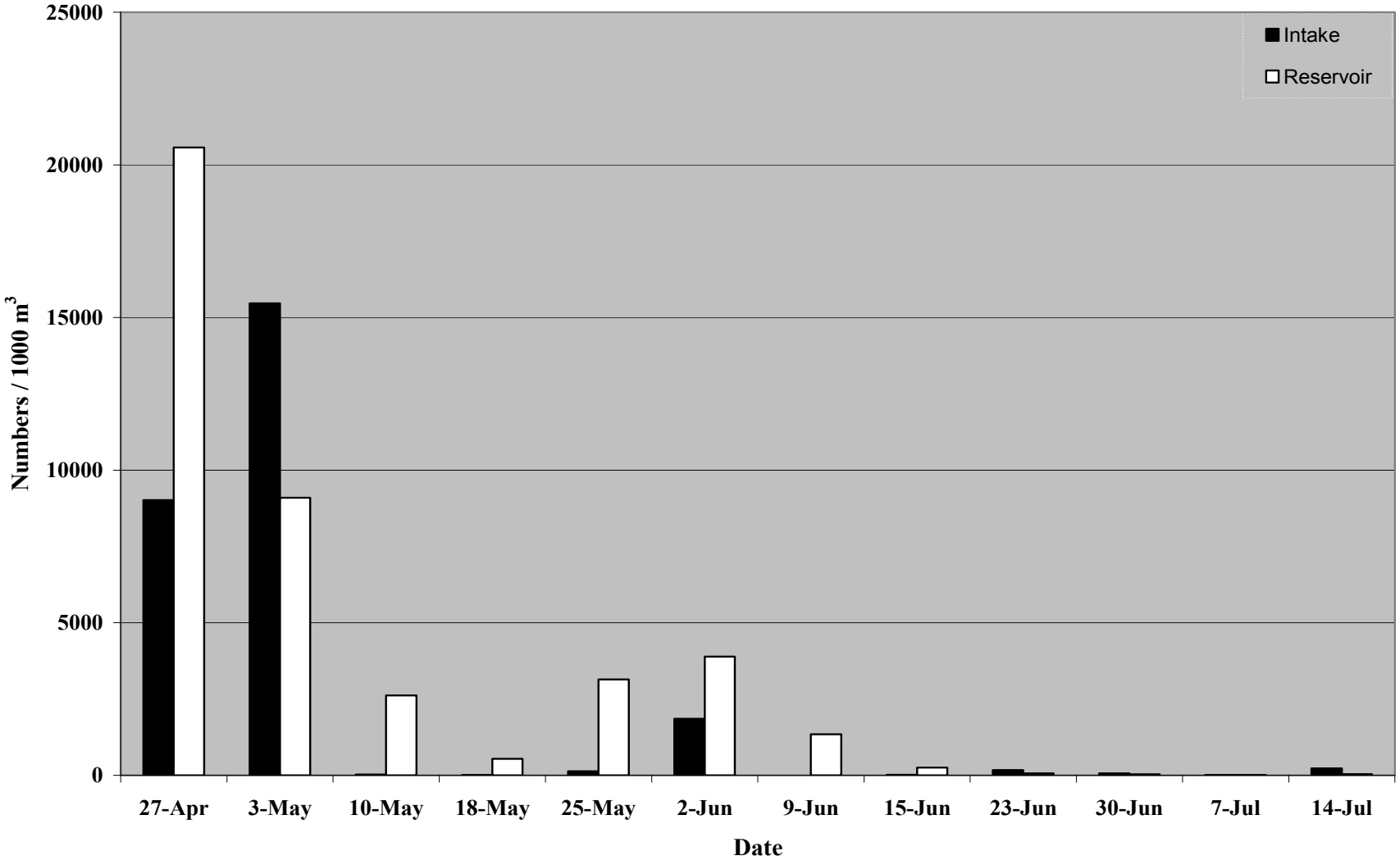

Figure 8. Densities of clupeid larvae collected in intake and reservoir entrainment samples at Sequoyah Nuclear Plant during 2004.

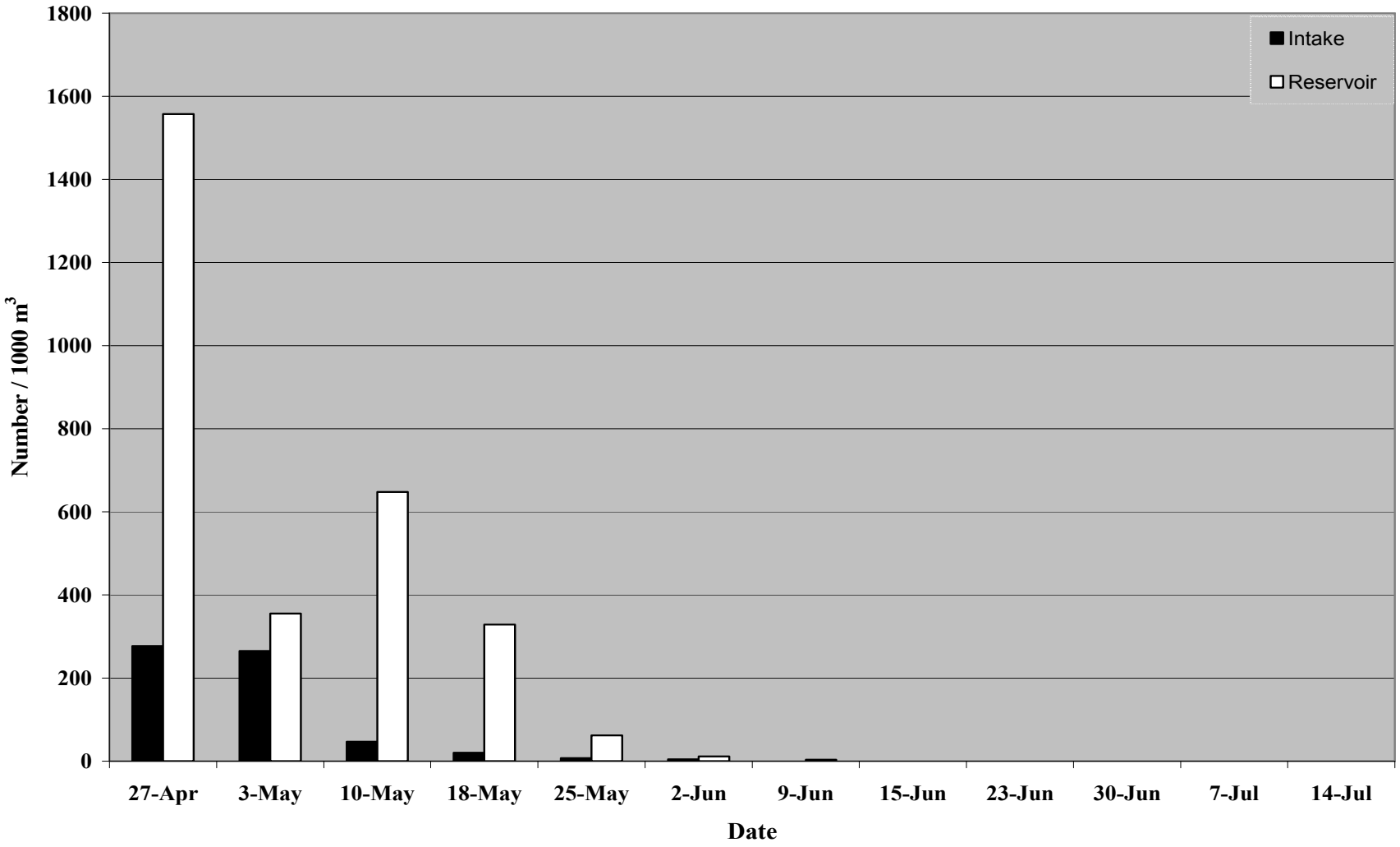

Figure 9. Densities of moronid larvae collected in intake and reservoir entrainment samples at Sequoyah Nuclear Plant during 2004.

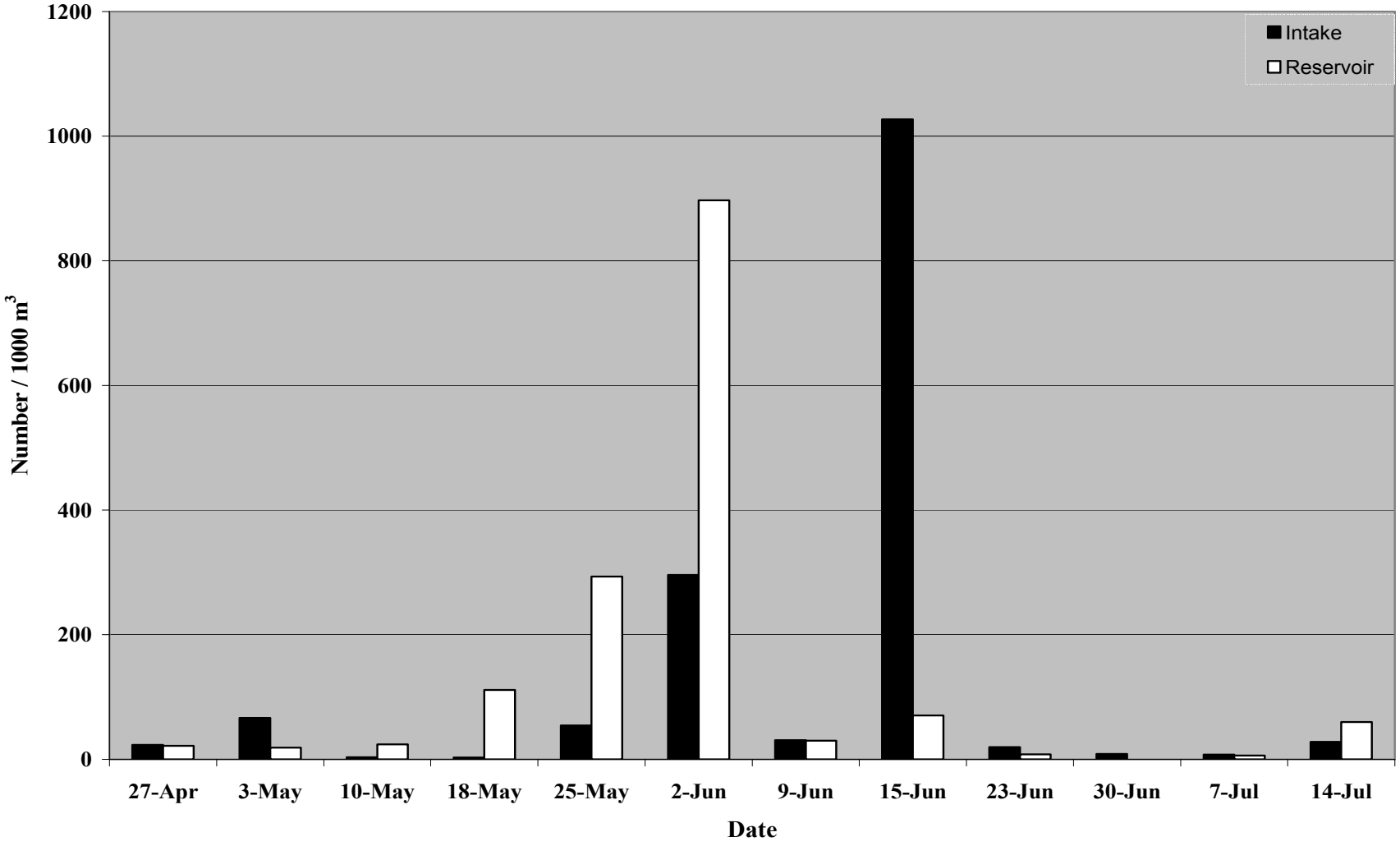

Figure 10. Densities of centrarchid larvae collected in intake and reservoir entrainment samples at Sequoyah Nuclear Plant during 2004.

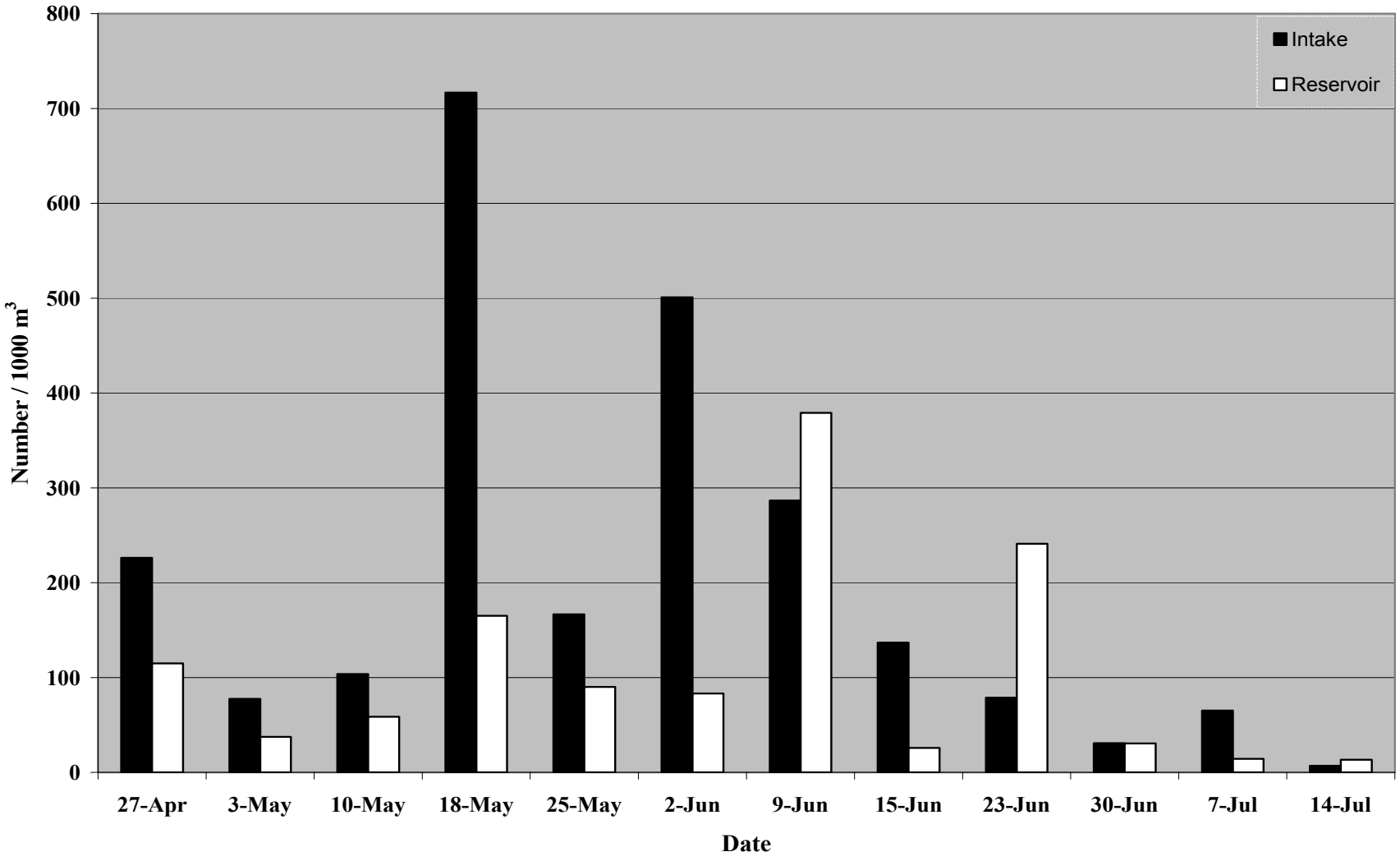

Figure 11. Densities of sciaenid larvae collected in intake and reservoir entrainment samples at Sequoyah Nuclear Plant during 2004.

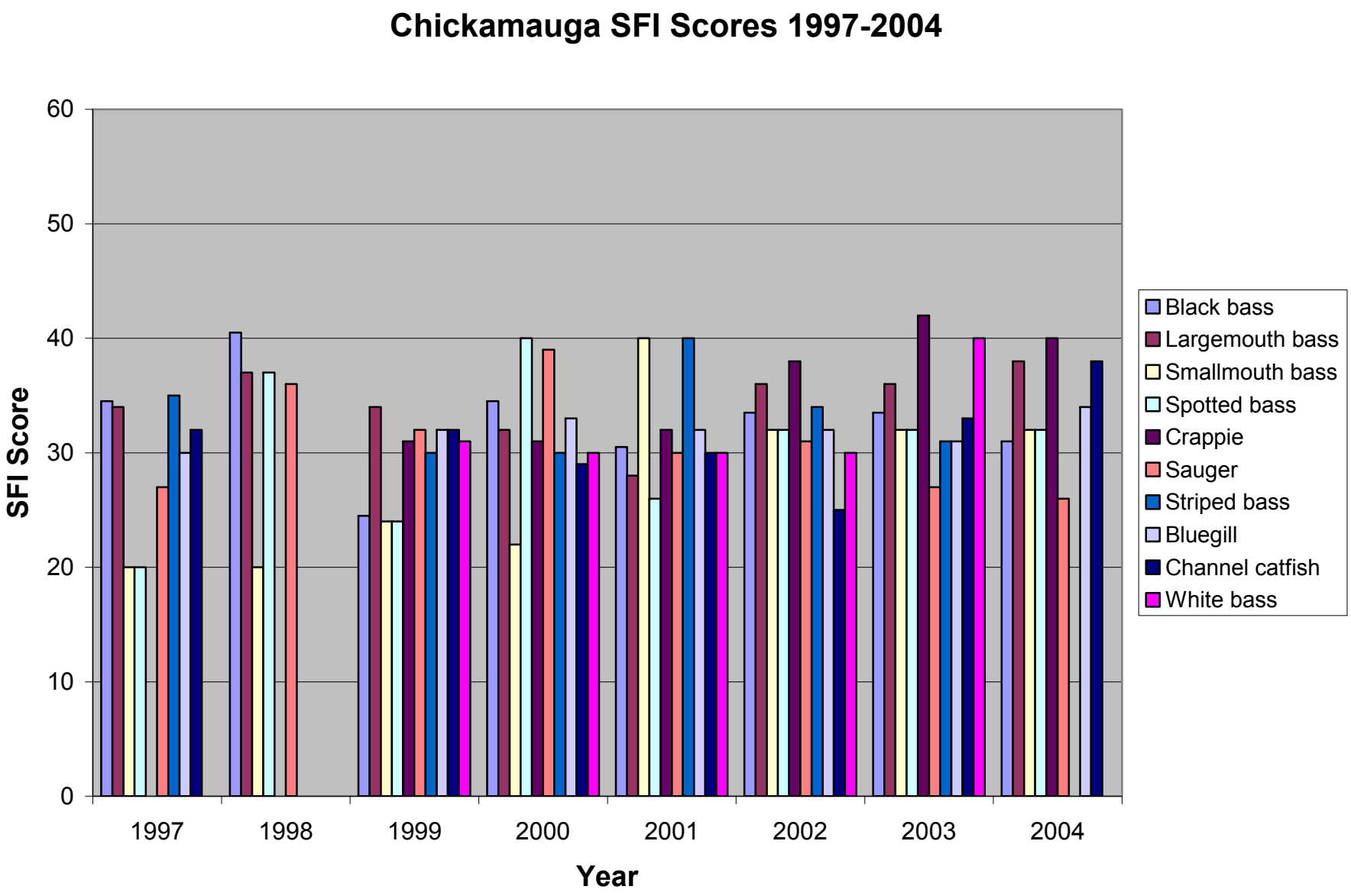

Figure 12. Sport Fishing Index results for Chickamauga Reservoir between 1997 and 2004.

WBN2Public Resource

From: Stegen, Amanda [Amanda.Stegen@pnl.gov]
Sent: Thursday, March 11, 2010 4:49 PM
To: ^PNNL NRC Watts Bar OL
Subject: Tennessee Data Request
Attachments: Statewide Creel Report_2008_Final.pdf; Chickamauga and Watts Bar Non-Roe Fish 2008-2009.pdf; Chickamauga and Watts Bar Roe Fish Summary 2007-2009.pdf; Statewide Creel Report_2007_Final.pdf

---

From: Pat Black [mailto:Pat.Black@tn.gov]
Sent: Monday, March 01, 2010 8:37 AM
To: Krieg, Rebekah
Cc: Jason Henegar
Subject: Tennessee Data Request

Hi Rebekah,

I've run some queries on the Tennessee commercial fishing database to create the attached summaries of the harvest records. There are two files for the commercial harvest. One is for non-roe fish and the other is for roe-fish. There was not much commercial activity on Watts Bar in the last few years.

I've also attached the Tennessee Statewide Reservoir Creel Reports for 2007 and 2008 since these are the two most recent completed reports. Both Watts Bar and Chickamauga were surveyed both of these years.

Patrick Black, TWRA
Fisheries Management Division
615-781-6579

ps. Please disregard the previous email sent. Our email software has the File>Attach button right next to the Send button and I'm not very coordinated.

Hearing Identifier: Watts_Bar_2_Operating_LA_Public
Email Number: 2

Mail Envelope Properties (92F211CFD9586C4B9AC51FA33071B0FE017A334F4FF4)

Subject: Tennessee Data Request
Sent Date: 3/11/2010 4:49:05 PM
Received Date: 3/11/2010 4:49:08 PM
From: Stegen, Amanda

Created By: Amanda.Stegen@pnl.gov

Recipients:
"^PNNL NRC Watts Bar OL" <nrc.wattsbar@pnl.gov>
Tracking Status: None

Post Office: EMAIL04.pnl.gov

Files	**Size**	**Date & Time**
MESSAGE	941	3/11/2010 4:49:08 PM
Statewide Creel Report_2008_Final.pdf	820551	
Chickamauga and Watts Bar Non-Roe Fish 2008-2009.pdf	63724	
Chickamauga and Watts Bar Roe Fish Summary 2007-2009.pdf	153503	
Statewide Creel Report_2007_Final.pdf	795354	

Options
Priority: Standard
Return Notification: No
Reply Requested: No
Sensitivity: Normal
Expiration Date:
Recipients Received:

Final Report

Tennessee Reservoir Creel Survey

2008 Results

Prepared By:

Wm. Patrick Black

Tennessee Wildlife Resources Agency
Fisheries Management Division
P. O. Box 40747
Nashville, TN 37204

November 2009

Table of Contents

Page

Program Overview 6

Statewide

Statewide Angling Effort for All Anglers, by Lake – 2008 13
Statewide Angling Effort for Intended Species – 2008 14
Statewide Catch Statistics for All Anglers, By Lake – 2008 15
Statewide Fishing Effort and Catch Rates, by Lake, for Intended Species – 2008 16
Statewide Summary of Trip Expenditures and Consumer Surplus, by Lake - 2008 30
Statewide Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 31

TWRA Region I

Kentucky Reservoir

Monthly Angling Effort for All Anglers – 2008 34
Monthly Catch Statistics for All Anglers – 2008 35
Summary of Species Catch Statistics – 2008 36
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 37
Summary of Relative Species Catch Rates Within Target Groups - 2008 38
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 39
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 40
Summary of Sociological Questions - 2008 41

Kentucky 1 - North Reservoir

Monthly Angling Effort for All Anglers – 2008 43
Monthly Catch Statistics for All Anglers – 2008 44
Summary of Species Catch Statistics – 2008 45
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 46
Summary of Relative Species Catch Rates Within Target Groups - 2008 47
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 48
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 49
Summary of Sociological Questions - 2008 50

Kentucky 2 - South Reservoir

Monthly Angling Effort for All Anglers – 2008 52
Monthly Catch Statistics for All Anglers – 2008 53
Summary of Species Catch Statistics – 2008 54
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 55
Summary of Relative Species Catch Rates Within Target Groups - 2008 56
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 57
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 58
Summary of Sociological Questions - 2008 59

Barkley Reservoir

Monthly Angling Effort for All Anglers – 2008 61
Monthly Catch Statistics for All Anglers – 2008 62
Summary of Species Catch Statistics – 2008 63
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 64
Summary of Relative Species Catch Rates Within Target Groups - 2008 65
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 66
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 67
Summary of Sociological Questions - 2008 68

Pickwick Reservoir

Monthly Angling Effort for All Anglers – 2008 70
Monthly Catch Statistics for All Anglers – 2008 71
Summary of Species Catch Statistics – 2008 72
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 73
Summary of Relative Species Catch Rates Within Target Groups - 2008 74
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 75
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 76
Summary of Sociological Questions - 2008 77

Reelfoot Lake

Monthly Angling Effort for All Anglers – 2008 79
Monthly Catch Statistics for All Anglers – 2008 80
Summary of Species Catch Statistics – 2008 81
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 82
Summary of Relative Species Catch Rates Within Target Groups - 2008 83
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 84
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 85
Summary of Sociological Questions - 2008 86

TWRA Region II

Tims Ford Reservoir

Monthly Angling Effort for All Anglers – 2008 89
Monthly Catch Statistics for All Anglers – 2008 90
Summary of Species Catch Statistics – 2008 91
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 92
Summary of Relative Species Catch Rates Within Target Groups - 2008 93
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 94
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 95
Summary of Sociological Questions - 2008 96

Normandy Reservoir

Monthly Angling Effort for All Anglers – 2008 98
Monthly Catch Statistics for All Anglers – 2008 99
Summary of Species Catch Statistics – 2008 100
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 101
Summary of Relative Species Catch Rates Within Target Groups - 2008 102
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 103
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 104
Summary of Sociological Questions - 2008 105

Percy Priest Reservoir

Monthly Angling Effort for All Anglers – 2008 107
Monthly Catch Statistics for All Anglers – 2008 108
Summary of Species Catch Statistics – 2008 109
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 110
Summary of Relative Species Catch Rates Within Target Groups - 2008 111
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 112
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 113
Summary of Sociological Questions - 2008 114

Old Hickory Reservoir

Monthly Angling Effort for All Anglers – 2008 116
Monthly Catch Statistics for All Anglers – 2008 117
Summary of Species Catch Statistics – 2008 118
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 119
Summary of Relative Species Catch Rates Within Target Groups - 2008 120
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 121
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 122
Summary of Sociological Questions - 2008 123

TWRA Region III

Center Hill Reservoir

Monthly Angling Effort for All Anglers – 2008 ……..……..……..……... 126
Monthly Catch Statistics for All Anglers – 2008 ……..……..…..……..……..... 127
Summary of Species Catch Statistics – 2008 ……..……..…….…… 128
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 …….……..…… 129
Summary of Relative Species Catch Rates Within Target Groups - 2008 ……...…… 130
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 131
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 …… 132
Summary of Sociological Questions - 2008 ……....……..……..…… 133

Chickamauga Reservoir

Monthly Angling Effort for All Anglers – 2008 ……..……..……..……... 135
Monthly Catch Statistics for All Anglers – 2008 ……..……..…..……..……..... 136
Summary of Species Catch Statistics – 2008……..……..…….…… 137
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 …….……..…… 138
Summary of Relative Species Catch Rates Within Target Groups - 2008 ……...…… 139
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 140
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 …… 141
Summary of Sociological Questions - 2008 ……....……..……..…… 142

Watts Bar Reservoir

Monthly Angling Effort for All Anglers – 2008 ……..……..……..……... 144
Monthly Catch Statistics for All Anglers – 2008 ……..……..…..……..……..... 145
Summary of Species Catch Statistics – 2008 ……..……..…….…… 146
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 …….……..…… 147
Summary of Relative Species Catch Rates Within Target Groups - 2008 ……...…… 148
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 149
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 …… 150
Summary of Sociological Questions - 2008 ……....……..……..…… 151

Dale Hollow Reservoir

Monthly Angling Effort for All Anglers – 2008 ……..……..……..……... 153
Monthly Catch Statistics for All Anglers – 2008 ……..……..…..……..……..... 154
Summary of Species Catch Statistics – 2008 ……..……..…….…… 155
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 ……..……..…… 156
Summary of Relative Species Catch Rates Within Target Groups - 2008 ……...…… 157
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 158
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 …… 159
Summary of Sociological Questions - 2008 ……....……..……..…… 160

TWRA Region IV

Norris Reservoir

Monthly Angling Effort for All Anglers – 2008.……..……..……..……... 163
Monthly Catch Statistics for All Anglers – 2008 ……..……..…..……..……..... 164
Summary of Species Catch Statistics – 2008 …....……..……..…… 165
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 …….……..…… 166
Summary of Relative Species Catch Rates Within Target Groups - 2008 ……...…… 167
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 168
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 …… 169
Summary of Sociological Questions - 2008 ……....……..……..…… 170

Cherokee Reservoir

Monthly Angling Effort for All Anglers – 2008 ……..……..……..……... 172
Monthly Catch Statistics for All Anglers – 2008 ……..……..…..……..……..... 173
Summary of Species Catch Statistics – 2008 ……..……..…….…… 174
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 …….……..…… 175
Summary of Relative Species Catch Rates Within Target Groups - 2008 ……...…… 176
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 177
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 …… 178
Summary of Sociological Questions - 2008 ……....……..……..…… 179

Melton Hill Reservoir

Monthly Angling Effort for All Anglers – 2008 ……..……..……..……... 181
Monthly Catch Statistics for All Anglers – 2008 ……..……..…..……..……..... 182
Summary of Species Catch Statistics – 2008 ……..……..…….…… 183
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 …….…….…… 184
Summary of Relative Species Catch Rates Within Target Groups - 2008 ……...…… 185
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 186
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 …… 187
Summary of Sociological Questions - 2008 ……....……..……..…… 188

Fort Loudon Reservoir

Monthly Angling Effort for All Anglers – 2008 ……..……..……..……... 190
Monthly Catch Statistics for All Anglers – 2008..……..……..…..……..……..... 191
Summary of Species Catch Statistics – 2008 ……..……..…….…… 192
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 …….…….…… 193
Summary of Relative Species Catch Rates Within Target Groups - 2008 ……...…… 194
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 195
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 …… 196
Summary of Sociological Questions - 2008 ……....……..……..…… 197

Boone Reservoir

Monthly Angling Effort for All Anglers – 2008 ……..……..……..……... 199
Monthly Catch Statistics for All Anglers – 2008 ……..……..…..……..……..... 200
Summary of Species Catch Statistics – 2008 ……..……..…….…… 201
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 …….…….…… 202
Summary of Relative Species Catch Rates Within Target Groups - 2008 ……...…… 203
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 204
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 …… 205
Summary of Sociological Questions - 2008 ……....……..……..…… 206

Watauga Reservoir

Monthly Angling Effort for All Anglers – 2008 ……..……..……..……... 208
Monthly Catch Statistics for All Anglers – 2008 ……..……..…..……..……..... 209
Summary of Species Catch Statistics – 2008……..……..…….…… 210
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 …….…….…… 211
Summary of Relative Species Catch Rates Within Target Groups - 2008 ……...…… 212
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 213
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 …… 214
Summary of Sociological Questions - 2008 ……....……..……..…… 215

Appendix I

TWRA Reservoir Angler Count Form ……. 217
TWRA Reservoir Angler Survey Form ……. 218

Program Overview

This document provides a summary of data collected by Tennessee Wildlife Resource Agency (TWRA) personnel for the statewide reservoir angler creel survey for the 2008 calendar year. Creel surveys were used to assess the fisheries of 18 reservoirs throughout Tennessee using two basic sampling methods; roving and access point. This overview contains descriptions of: 1) survey designs, 2) sampling methodologies, and 3) analytical methods. Each description is divided into roving and access point surveys. The roving survey descriptions give a more thorough account of the methodology; access point survey descriptions only list methods that differed from roving surveys. The roving and access point creel survey designs were adopted from methods described by Malvestuto et al. (1978), Malvestuto (1996) and St. John (1992). The intention of this narrative is to provide readers with a brief overview of the statistical sampling framework.

Survey Designs

Creel clerks conducted surveys on 18 reservoirs with active, on-site methods whereby anglers were interviewed either during, or immediately following, fishing trips. Fishery-dependent information collected included: angler effort, trip duration, target preferences, catch, harvest, release, demographic measures, economic values and individual status as a tournament angler. Seventeen of the reservoirs were sampled using roving creel survey designs while one of the reservoirs (Normandy) was sampled with access point creel survey methods.

(Roving Surveys)

The roving survey method used non-uniform probability, stratified random sampling to maximize sampling efficiency and minimize bias. Each reservoir was divided into a number of sections. The area of a section was originally defined by the ability of a creel clerk to complete a circuit in about 1 to 1.5 hours. Each area within a reservoir was assigned a sampling probability based on expected angler use within each of 12 monthly time blocks. The sum of the area probabilities equaled 1.0. The fishing day was defined as the period of time from sunrise to sunset. Fishing days were divided into two sampling periods in which the period from sunrise to sunset was divided into two roughly equal periods. Sampling periods also were assigned probabilities based on expected angler use within each month, and these summed to 1.0. Sampled days were divided into two strata (weekend days and weekday days) to homogenize the distributions of angler occurrence, assuming that anglers would be more abundant during weekend samples when a greater proportion of the angling population would be expected to have more time for recreation.

Random work schedules were created prior to the beginning of the 2008 survey year. Within any given month, a predetermined number of days was allocated to each day-type (weekend and weekday). Calendar days then were randomly chosen each month for each day-type. Within each sample day, secondary sampling units consisted of all the possible combinations of time periods (2) and lake sections. Probabilities for secondary sample units were derived by multiplying the time period probability by the lake section probability. Secondary sampling unit probabilities summed to 1.0 for any given lake. One secondary sampling unit was randomly chosen each day; that is to say, each sample day, creel clerks worked one ½-day period within a single, pre-defined lake section.

(Access Point Surveys)

Although the sampling methodology for the access point creel surveys differed from the roving surveys, the framework used to determine the sampling designs was basically the same. The one exception was the substitution of angler access points (boat ramps) for reservoir areas. The secondary sample units comprised all combinations of access points and time periods, and the secondary sampling unit probabilities summed to 1.0. During each sample day, creel clerks worked one ½-day period at a single access point.

Sample Methodology

(Roving Surveys)

Creel clerks collected data during the scheduled work periods described previously. A roving creel survey sample consisted of two parts: angler counts and angler interviews. Daily counts of anglers were taken within the sample period by making a circuit of the lake concurrently with interviews during a single circuit of the lake section within a ½-day sampling period (count-as-you-go method). The count-as-you-go method required that check stations be established at ¼-way points on the route to enable clerks to stay on schedule and finish the single circuit during the allotted time. Travel direction was randomly determined by coin toss. All anglers fishing from either boats or from the shore were counted.

Creel clerks interviewed as many anglers as possible during a sample period. If there were more anglers than could be interviewed, then angling parties were systematically skipped to ensure that interviews were collected throughout the entire reservoir section in the allotted time.

Upon approaching anglers, creel clerks recorded information, which did not require interrupting fishing, including date, reservoir, sample area, fishing from the bank or a boat, and the number of anglers in the fishing party. When the clerk reached the angler or angling group, he asked if they would mind spending a few moments answering questions related to the fishing trip. If anglers did not wish to be interrupted, then the creel clerk moved on. If anglers did not mind responding to the interview, then the clerk asked how long they had been fishing, how much longer they expected to fish, what their primary target species was, what state and county they were from, the distance they traveled from home, the reason for the trip, the number of days in the trip, dollar amount of trip expenditures, and the additional amount of money they would be willing to spend if daily expenditures were to increase. The anglers were also categorized as a tournament (actively fishing in a tournament at the time of the interview) or a non-tournament angler. The creel clerk counted all fish harvested and recorded the bulk weight of each harvested species. Anglers were also asked how many of each species had been released. Each respondent's answers were recorded on pre-printed survey forms using TWRA survey codes. Since anglers were interviewed before completing their fishing trips with roving surveys, interview data from roving surveys were based on uncompleted fishing trips.

(Access Point Surveys)

Access point surveys differed from roving creel surveys in that anglers were not interviewed until they had finished fishing and were leaving the water at an access site. Thus, interview data from access point surveys were based on competed fishing trips. During any given ½-day sampling period, the creel clerk waited at a boat ramp and interviewed anglers as they left using the same interview format as used for roving surveys. All anglers leaving access sites were counted and as many as possible were interviewed.

Analytical Methods

Creel surveys conducted by TWRA used randomized sampling designs which, taken alone, only provide information about small portions of each reservoir fishery. To provide meaningful estimates about the populations from which the samples were drawn, the sample values must be expanded over space and time. The following narrative describes the calculations for these data expansions for any given reservoir. To assess the efficiency of the sampling effort and the variability of the estimates, relative standard errors (RSE) were calculated where possible. The RSE is the standard error (se) of an estimated value (y), expressed as a percentage of that value, or RSE = (se/y) x 100. Mathematical formulas for the following estimates were given by Malvestuto et al. (1978).

(Roving Surveys)

Fishing Effort

Estimates of fishing effort were calculated using daily angler counts and the number of hours within a sample period. Thus, for any given sampling period, fishing effort measured in angler-hours (e) was calculated as

the product of the total angler count (c) and the number of hours assigned to the sampling period (h), or e = c(h). This value estimates total angler-hours for a single lake section within a single time period, which must be expanded to an estimate of angler-hours for the entire lake for the whole day. This expansion is accomplished by dividing e by the probability for the secondary sampling unit (time period/lake section) worked that day. For example, if the time period probability was 0.5 and the lake section probability was 0.4, then the secondary sampling unit probability is 0.5 x 0.4, or 0.20, so an estimate of e=100 angler-hours for a given secondary unit would be expanded to 100/0.2 or 100 x 5 = 500 angler-hours for the whole lake for that entire day (E).

To derive estimates of total monthly fishing effort, means were taken across the daily values of E within each day-type stratum each month. These two daily mean values of fishing effort (one for weekends and one for weekdays) were weighted by the proportional number of those day types within each month (e.g. weekend weight = no. weekend-days/ total days in month), and then summed to provide a mean daily estimate of fishing effort for the month. This mean daily value then was multiplied by the total number of days in the month to give total monthly effort for the entire lake (T). Intended monthly fishing effort for a given species, or species group, was computed as the proportion of interviewed anglers fishing for that group times total monthly fishing effort. So, for example, if 25% of the anglers interviewed were fishing for black bass, the monthly-intended fishing effort for black bass would be 0.25(T).

Catch Rates (CPE, HPE and RPE)

Catch-per-unit-effort or CPE = the number of fish caught per hour, which includes fish harvested plus fish released back into the water. For roving creel surveys, CPE values are based on the number of fish caught by anglers at the time of interview (uncompleted fishing trips). For the following description, release or harvest values may be substituted for catch values to derive release per angler-hour, RPE, or harvest per angler-hour, HPE.

For each interview on a given sample day, the total number of fish caught by all anglers in the fishing party (n) was divided by the total time all anglers in the party had spent fishing (f) up to the point they were interviewed. These individual party CPE values (n/f) then were averaged to provide a daily CPE. A mean was taken across the daily CPE values within each day-type stratum, and then these weekday and weekend means were weighted and summed (as described for daily fishing effort above) to give a mean daily CPE for the month. This mean daily value is representative of the month as a whole, and becomes the monthly CPE estimate for all species combined.

Catch, Harvest and Release

Total daily catch for an entire reservoir (C) was calculated by multiplying the total daily effort (E) by the daily CPE estimate. The same process was applied to release and harvest data to derive total daily release (R) and total daily harvest (H). The daily total catch values were used to calculate a mean daily catch within each day-type stratum each month. The mean daily catch values for weekdays and weekends were weighted and summed across day types, as done for effort and CPE above, to derive a mean daily catch for the month. This mean daily value then was multiplied by the number of days in the month (as done for fishing effort) to estimate total monthly catch (M).

Estimates of catch for individual species were calculated from the percent composition of individual species recorded during interviews. For example, if a given species accounted for 40% of the total number of fish recorded during any given month, then the total monthly catch for that species would be 0.4(M).

Intended Species Catch Rates

Catch rates (CPE, RPE and HPE) for anglers targeting certain species were calculated based on interviews of anglers who intended to catch those species. For computations, interviews from anglers intending to catch various species were grouped. Catch rates for intended species were calculated for each interview by summing the number of fish caught of that species and dividing by fishing effort for all anglers in the party. A mean CPE then was taken across interviews within intended species categories to provide the intended species catch rates.

Caution should be exercised when interpreting these data since many of the target species groups were general categories (e.g. black bass, crappie) while other valid responses were more specific (e.g. largemouth bass, smallmouth bass). Anglers were asked to be as specific as possible with regard to their target species, but often no

discrimination was made between individual species within general groups. For example, calculations made for black bass only include data taken from anglers who stated black bass to be their target species group. The black bass category does not include values from anglers who specified they were fishing for largemouth bass or smallmouth bass. Calculations for these species are presented within their own categories. To obtain a true estimate of effort for black bass, all categories for black bass species, including the general category, must be summed (i.e. true total black bass effort = black bass effort + largemouth bass effort + smallmouth bass effort). The CPE estimates for intended species, however, are not additive since each estimate is based on a different value of intended fishing effort in the denominator, i.e., the fractions do not have a common denominator as they stand.

Relative Species Catch Rates

Relative catch rates are the proportional catch rates of individual species within the general intended species groups. These rates were computed by multiplying the intended catch rate for a given species group by the proportion of relevant species recorded in the creel. So, for example, if the intended catch rate for crappie is 1.8 fish/h, and black crappie represented 25% of the crappie in the creel and white crappie represented the remaining 75%, then the intended rate of 1.8 was partitioned into 1.8(.25) = 0.45 for black crappie and 1.8(.75) = 1.35 for white crappie. These relations do not hold for black bass, however, because there were usually more than one black bass intended catch rate (e.g., general black bass, largemouth bass, smallmouth bass, etc.), so there was no single rate to partition. The intended rates are not additive, as explained above, so the sum of the intended rates cannot serve as the single rate for black bass to be partitioned. So, the relative CPE values for black bass species were computed by generating a new total black bass catch rate by summing the monthly total catches of all black bass species in the numerator, and dividing by the sum of total monthly-intended fishing effort for all black bass in the denominator. This value then was partitioned by the proportion of each black bass species recorded in the creel. Although the species relative catch rates for black bass sum to this new total rate, the new rate is not a pure intended catch rate and thus is not reported elsewhere in the report. In summary, relative catch rates basically reflect the species composition of the catch within intended species groups, and thus do not represent true catch rates for those individual species, as do the intended rates.

Economic Values

Anglers were asked to give estimates of daily trip expenditures for items, which included fuel, food, bait, lodging and guides fees. They were also asked how much additional money they would be willing to spend if daily trip costs were to increase in the future. This value is anglers' willingness to pay above actual costs, and represents anglers' consumer surplus. Consumer surplus is equivalent to the amount of money that anglers would be willing to spend for the opportunity to fish a given resource, over-and-above what they actually have to spend. This amount of money is the theoretical profit associated with the fishery, as if it were privately owned. This value is necessary to compute so that the profit associated with recreational fisheries in Tennessee can be compared to other more traditional industries. Money spent for trip preparation and travel to the reservoirs (fuel, food, bait, etc.) is funneled into other businesses that provide goods and services enabling anglers to go fishing; this money, in turn, employs people in these business, and is re-cycled in the local economies, generating more goods, services and profits. Both components of economic value, trip expenditures and consumer surplus, sum to provide an estimate of total angler-oriented value.

Total monthly estimates of trip expenditures and consumer surplus were computed by multiplying the median dollar values per trip by the total number of angler-trips estimated for the month. This was first done for each intended species group and then the intended species values were summed to give the total monthly economic estimates. Median trip values for the economic responses were used because frequency distributions of expenditures per trip and consumer surplus per trip were skewed to the left, such that means were generally higher than medians, and thus the more conservative median values were used in the computations.

Tournament Status

Beginning in 2002, all anglers were asked if they were actively fishing in a tournament at the time of the interview. Each interview record was coded as yes (tournament fishing), or no (not tournament fishing). Analyses involving tournament angling were restricted to those individuals targeting black basses. Black bass

Catch rates (CPE) were calculated for tournament anglers as well as non tournament angler. For comparison, percent of black bass effort and catch rates for by angler type were printed in tables at the end of each reservoir section in the report

(Access Point Surveys)

This section only describes estimates, which differ in computation from the roving survey methods. These differences include estimating fishing effort and catch rates. All other estimates were calculated the same way for the two survey techniques.

Fishing Effort

The standard difference between roving and access point surveys with respect to derivation of fishing effort is how angler-hours for the sample period are estimated. For roving surveys as described above, sample period effort is estimated as the angler count times the number of hours in the sample period. For access point surveys, however, angler-hours for the sample period is simply the sum of angler-hours recorded from completed trip interviews at the access point. This assumes that all anglers who exited the site were interviewed. If all anglers could not be interviewed upon exit, then angler-hours for the sample period were estimated as the mean completed trip time computed from interviews, times the total number of anglers who exited the site. Once sample period effort is computed, the computational techniques for access point surveys followed those outlined above for roving surveys.

In 2008, Normandy Reservoir was sampled using the access point survey method. To maximize work time efficiency during the initial year, only the major access sites were sampled. In order to expand the daily ramp effort to lake wide totals, monthly area probabilites were estimated based on boat trailer counts that were measured from all ramps on every scheduled sample day. These probablilties were used to obtain the monthly area probability for the sampled ramp which was used to exand the local effort lake wide during the monthly time blocks. This differed from the roving surveys which had fixed probabilities prior to the sample year and were used to schedule the sampling effort.

Catch Rates

Catch rates from roving surveys should be computed differently than catch rates from access point surveys. This is because catch rate data are based on uncompleted trips from roving surveys. If trip data is not complete, then it is appropriate to compute a catch rate for each interview and then take a mean of these rates within any given day to provide a daily catch rate. This is the method described above for computation of catch rates from roving surveys. This method gives each interview equal weighting regardless of how long the anglers were fishing. Equal weighting is appropriate because the final length of the trip is not known. However, if the completed trip length is known as with access point surveys, then catch rate is computed as the sum of catch across interviews (numerator) divided by the sum of effort across interviews (denominator). This provides a single total ratio estimate of CPE, which is equivalent to weighting each interview catch rate by the time spent fishing. This weighting is appropriate because the total fishing trip is represented in the data.

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STATEWIDE

STATEWIDE ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
NORRIS	346330	11.9	10.1	66547	1.9	5.1
DALE HOLLOW	335407	7.4	14.6	52750	2.1	5.0
REELFOOT	520475	10.0	49.8	66995	6.5	7.7
CHEROKEE	407675	9.0	13.5	78464	2.5	6.0
TIMS FORD	56407	9.6	5.3	11642	1.0	0.8
BARKLEY	131119	11.7	7.4	21705	1.2	1.9
CENTER HILL	322409	13.0	17.6	58367	3.3	4.8
PERCY PRIEST	783696	5.4	55.2	174502	12.3	11.6
OLD HICKORY	970509	7.0	43.2	208509	9.2	14.4
MELTON HILL	87914	5.0	15.4	22459	4.0	1.3
NORMANDY	35387	11.2	11.6	7260	2.4	0.5
FT. LOUDOUN	197702	6.4	13.6	43406	2.9	2.9
CHICKAMAUGA	493508	8.5	14.1	79161	2.3	7.3
WATTS BAR	514776	13.0	13.4	82544	2.1	7.6
PICKWICK	67540	11.9	11.0	11026	1.8	1.0
KENTUCKY	1484970	6.2	13.7	239983	2.1	22.0
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STATEWIDE	**6755824**	**2.5**	**19.3**	**1225320**	**3.6**	**100.0**

STATEWIDE ANGLING EFFORT FOR INTENDED SPECIES GROUPS - 2008

INTENDED SPECIES	ANGLER HOURS	RELATIVE STANDARD ERROR	ANGLER TRIPS	PERCENT EFFORT
ANY CATFISH	653676	4.5	115855	9.7
MUSKELLUNGE	3062	24.9	634	0.0
RAINBOW TROUT	888	50.5	199	0.0
ANY TROUT	2129	35.7	418	0.0
BROWN TROUT	742	139.6	184	0.0
WHITE BASS	101844	10.4	18961	1.5
STRIPED BASS	199592	6.4	39964	3.0
CHEROKEE BASS	71827	9.9	14564	1.1
ANY SUNFISH	329208	7.3	53468	4.9
ANY BLACK BASS	1380672	4.2	237664	20.4
SMALLMOUTH BASS	188821	8.5	30242	2.8
SPOTTED BASS	15216	24.5	2895	0.2
LARGEMOUTH BASS	900237	4.8	190300	13.3
ANY CRAPPIE	1664642	4.6	282008	24.6
SAUGER	178445	10.9	30595	2.6
WALLEYE	144210	8.2	27537	2.1
SAUGEYE	1882	96.2	353	0.0
ANY SPECIES	916738	3.9	179380	13.6
OTHER	382	103.5	82	0.0

STATEWIDE CATCH STATISTICS FOR ALL ANGLERS, BY LAKE - 2008

LAKE	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	R H
NORRIS	351078	32.6	1.01	54.2	66288	21.0	0.19	
DALE HOLLOW	178938	11.6	0.53	23.0	68451	15.3	0.20	
REELFOOT	1232892	11.2	2.37	10.6	861108	11.3	1.65	
CHEROKEE	347704	9.4	0.85	12.7	81529	12.4	0.20	
TIMS FORD	35786	20.1	0.63	58.3	9454	25.6	0.17	
BARKLEY	304790	17.9	2.32	18.9	144792	22.5	1.10	
CENTER HILL	180621	14.0	0.56	23.9	64656	17.3	0.20	
PERCY PRIEST	1035894	8.8	1.32	22.3	292897	10.4	0.37	
OLD HICKORY	1597814	9.5	1.65	16.0	254805	13.3	0.26	
MELTON HILL	66060	9.7	0.75	30.0	6927	21.4	0.08	
NORMANDY	20319	15.4	0.57	29.6	6963	24.0	0.20	
FT. LOUDOUN	250960	8.8	1.27	20.1	41836	15.8	0.21	
CHICKAMAUGA	1560100	9.9	3.16	13.8	367287	11.7	0.74	
WATTS BAR	1326146	15.2	2.58	20.6	299453	18.8	0.58	
PICKWICK	44602	17.8	0.68	72.4	10207	10.2	0.15	
KENTUCKY	3767458	8.1	2.54	12.6	1786466	9.6	1.20	
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STATEWIDE	**12301162**	**3.9**	**1.82**	**18.3**	**4363119**	**5.0**	**0.64**	

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 20

INTENDED SPECIES=ANY CATFISH

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED
NORRIS	345	141.6	68	0.1	0.00	.	0.00	.
DALE HOLLOW	4306	31.3	648	0.7	0.59	54.1	0.59	54.1
REELFOOT	6759	26.6	872	1.0	0.55	34.1	0.49	38.1
CHEROKEE	39978	16.3	8008	6.1	0.64	22.9	0.41	25.1
TIMS FORD	521	73.1	111	0.1	0.29	.	0.00	.
BARKLEY	22031	17.6	3565	3.4	0.89	31.5	0.85	30.5
CENTER HILL	6342	35.2	1183	1.0	0.22	39.3	0.22	39.3
PERCY PRIEST	48914	11.4	10870	7.5	0.33	54.1	0.24	60.7
OLD HICKORY	69273	13.3	15380	10.6	0.37	29.9	0.32	33.9
MELTON HILL	1703	33.9	466	0.3	0.10	0.0	0.00	.
NORMANDY	2332	25.8	463	0.4	0.32	39.1	0.24	55.8
FT. LOUDOUN	9449	21.1	2246	1.4	0.43	46.4	0.09	64.7
CHICKAMAUGA	100324	10.6	16131	15.3	1.48	15.1	0.63	20.0
WATTS BAR	58667	16.4	9430	9.0	1.32	30.8	0.65	34.5
PICKWICK	13582	21.7	2319	2.1	0.76	14.1	0.66	19.0
KENTUCKY	269150	8.0	44095	41.2	0.76	22.7	0.60	24.6
STATEWIDE	**653676**		**115855**					

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2008

INTENDED SPECIES=MUSKELLUNGE

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED
DALE HOLLOW	887	61.5	134	29.0	0.12	.	0.08	.
MELTON HILL	2175	24.4	500	71.0	0.03	120.9	0.00	.
STATEWIDE	**3062**		**634**					

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2008

INTENDED SPECIES=RAINBOW TROUT

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED
DALE HOLLOW	163	148.2	23	18.4	7.00	.	7.00	.
MELTON HILL	725	52.1	176	81.6	0.73	6.0	0.41	18.6
STATEWIDE	**888**		**199**					

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2008

INTENDED SPECIES=ANY TROUT

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED
DALE HOLLOW	2129	35.7	418	100.0	0.02	176.1	0.02	176.1

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2008

INTENDED SPECIES=BROWN TROUT

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED
OLD HICKORY	742	139.6	184	100.0	0.00	.	0.00	.

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2008

INTENDED SPECIES=WHITE BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED
CHEROKEE	895	73.1	168	0.9	0.47	.	0.47	.
TIMS FORD	251	69.7	50	0.2	0.46	0.0	0.00	.
BARKLEY	1623	42.0	291	1.6	2.07	26.9	1.18	31.8
PERCY PRIEST	13845	17.8	3089	13.6	0.56	110.8	0.20	132.9
OLD HICKORY	34966	18.6	7396	34.3	1.21	29.0	0.72	36.2
CHICKAMAUGA	2979	38.0	472	2.9	5.28	27.9	3.01	33.9
WATTS BAR	18988	24.4	3044	18.6	5.12	31.5	1.90	27.4
KENTUCKY	28297	22.6	4451	27.8	2.09	16.5	0.76	26.9
STATEWIDE	**101844**		**18961**					

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2008

INTENDED SPECIES=STRIPED BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED
NORRIS	33232	18.0	6659	16.6	0.26	75.9	0.04	151.9
CHEROKEE	23301	15.3	4427	11.7	0.11	41.9	0.05	53.5
TIMS FORD	5962	24.2	1280	3.0	0.10	55.5	0.06	92.8
PERCY PRIEST	26829	14.0	5957	13.4	0.07	93.0	0.02	82.0
OLD HICKORY	54870	13.9	11887	27.5	0.18	47.9	0.09	62.6
MELTON HILL	6545	16.3	1688	3.3	0.06	88.5	0.00	.
FT. LOUDOUN	1926	61.5	443	1.0	0.86	.	0.00	.
CHICKAMAUGA	19536	17.9	3134	9.8	0.58	44.0	0.21	65.9
WATTS BAR	20108	21.9	3257	10.1	0.38	46.3	0.11	74.8
KENTUCKY	7283	36.7	1232	3.6	0.33	77.9	0.21	114.8
STATEWIDE	**199592**		**39964**					

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2008

INTENDED SPECIES=CHEROKEE BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED
CHEROKEE	44202	14.1	8513	61.5	0.61	15.2	0.21	18.7
TIMS FORD	789	44.0	158	1.1	0.36	44.1	0.30	57.9
PERCY PRIEST	25669	12.8	5667	35.7	0.52	57.5	0.14	61.7
OLD HICKORY	1167	83.8	226	1.6	0.00	.	0.00	.
STATEWIDE	**71827**		**14564**					

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2008

INTENDED SPECIES=ANY SUNFISH

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED
NORRIS	25006	17.5	4997	7.6	2.24	24.1	1.17	27.6
DALE HOLLOW	21051	16.4	3354	6.4	2.94	23.4	1.97	25.3
REELFOOT	121760	13.5	14779	37.0	2.50	5.9	2.05	5.6
CHEROKEE	4361	38.1	857	1.3	1.86	16.1	0.75	24.0
TIMS FORD	1942	38.3	440	0.6	0.49	42.6	0.00	.
BARKLEY	9995	43.2	1640	3.0	7.73	9.0	6.29	10.0
CENTER HILL	7019	30.4	1348	2.1	1.95	38.6	1.29	43.7
PERCY PRIEST	23340	18.2	5275	7.1	2.31	42.7	1.00	52.5
OLD HICKORY	40453	17.3	8606	12.3	3.91	51.8	0.50	66.2
MELTON HILL	2295	28.7	613	0.7	1.73	15.8	0.64	53.4
NORMANDY	217	80.3	42	0.1	1.67	.	0.00	.
FT. LOUDOUN	5052	32.0	1125	1.5	1.66	58.5	0.42	103.7
CHICKAMAUGA	963	58.1	159	0.3	12.01	.	5.21	.
PICKWICK	3941	15.9	682	1.2	3.08	.	0.00	.
KENTUCKY	61813	21.8	9551	18.8	7.15	23.1	4.23	14.3
STATEWIDE	**329208**		**53468**					

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2008

INTENDED SPECIES=ANY BLACK BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED
NORRIS	124831	18.1	23313	9.0	0.42	23.0	0.01	156.8
DALE HOLLOW	69658	9.8	10773	5.0	0.33	22.2	0.10	42.6
REELFOOT	42972	14.1	5526	3.1	0.73	13.2	0.02	86.9
CHEROKEE	702	89.0	136	0.1	0.63	.	0.42	.
TIMS FORD	26982	10.3	5477	2.0	0.38	24.7	0.03	65.5
BARKLEY	50129	15.0	8274	3.6	2.01	13.8	0.24	27.0
CENTER HILL	160682	14.8	28486	11.6	0.56	18.4	0.19	28.0
PERCY PRIEST	1181	73.9	272	0.1	0.00	.	0.00	.
MELTON HILL	36214	7.4	9270	2.6	0.88	22.7	0.04	64.2
NORMANDY	18176	11.9	3781	1.3	0.52	27.4	0.18	58.7
FT. LOUDOUN	94694	8.0	20810	6.9	0.97	15.7	0.04	63.4
CHICKAMAUGA	200330	9.2	32077	14.5	1.18	21.5	0.06	43.0
WATTS BAR	245760	14.5	39275	17.8	0.92	11.9	0.06	46.5
PICKWICK	32931	19.5	5360	2.4	0.78	25.9	0.09	77.5
KENTUCKY	275430	8.0	44834	19.9	2.11	14.6	0.20	39.9
STATEWIDE	**1380672**		**237664**					

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2008

INTENDED SPECIES=SMALLMOUTH BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED
NORRIS	32140	27.0	6052	17.0	0.72	42.2	0.02	188.0
DALE HOLLOW	144566	9.1	21843	76.6	0.33	17.6	0.02	62.6
CHEROKEE	610	57.6	118	0.3	0.29	.	0.00	.
TIMS FORD	214	76.4	41	0.1	0.47	.	0.00	.
CENTER HILL	5124	44.8	938	2.7	0.10	58.5	0.00	.
PERCY PRIEST	2570	45.6	587	1.4	0.35	75.8	0.00	.
OLD HICKORY	2371	79.6	443	1.3	0.00	.	0.00	.
FT. LOUDOUN	536	80.7	119	0.3	0.25	.	0.00	.
WATTS BAR	361	103.3	51	0.2	0.00	.	0.00	.
KENTUCKY	329	143.5	50	0.2	0.00	.	0.00	.
STATEWIDE	**188821**		**30242**					

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2008

INTENDED SPECIES=SPOTTED BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED
NORRIS	2687	89.2	456	17.7	0.38	.	0.28	.
CENTER HILL	11907	23.8	2299	78.3	0.87	41.7	0.51	46.4
PERCY PRIEST	622	63.1	140	4.1	1.51	7.8	0.00	.
STATEWIDE	**15216**		**2895**					

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2008

INTENDED SPECIES=LARGEMOUTH BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED
NORRIS	2244	60.0	438	0.2	0.10	172.8	0.00	.
DALE HOLLOW	2736	37.5	396	0.3	0.35	60.5	0.06	94.4
CHEROKEE	188140	9.4	36086	20.9	0.62	7.4	0.01	107.6
TIMS FORD	97	113.8	20	0.0	0.00	.	0.00	.
PERCY PRIEST	266450	6.4	59068	29.6	0.63	18.8	0.04	30.7
OLD HICKORY	431904	8.1	92943	48.0	1.16	14.1	0.06	32.0
NORMANDY	177	64.0	35	0.0	0.28	20.9	0.00	.
WATTS BAR	251	158.5	38	0.0	1.75	.	0.00	.
PICKWICK	333	142.6	53	0.0	1.00	.	0.00	.
KENTUCKY	7905	41.0	1223	0.9	1.72	9.0	0.23	75.0
STATEWIDE	**900237**		**190300**					

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2008

INTENDED SPECIES=ANY CRAPPIE

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED
NORRIS	23948	34.2	4293	1.4	0.92	45.1	0.36	39.9
DALE HOLLOW	32267	12.3	4970	1.9	0.89	36.9	0.33	42.6
REELFOOT	339830	12.6	44615	20.4	1.91	7.8	1.36	7.9
CHEROKEE	83486	11.8	15851	5.0	1.17	13.6	0.52	16.6
TIMS FORD	7867	14.6	1614	0.5	0.94	59.9	0.49	58.3
BARKLEY	37208	15.0	6285	2.2	3.74	18.0	2.41	17.5
CENTER HILL	40187	21.0	7105	2.4	0.96	30.8	0.40	40.5
PERCY PRIEST	174730	6.4	39100	10.5	1.28	20.2	0.52	24.6
OLD HICKORY	105202	17.4	21781	6.3	1.30	22.2	0.61	43.7
MELTON HILL	14091	12.2	3489	0.8	0.73	27.7	0.28	43.2
NORMANDY	11329	17.4	2293	0.7	0.67	46.6	0.29	46.9
FT. LOUDOUN	53849	9.2	11608	3.2	1.42	18.9	0.61	26.2
CHICKAMAUGA	40793	11.9	6521	2.5	2.09	21.7	0.84	22.5
WATTS BAR	44716	19.7	7064	2.7	2.44	19.8	1.05	24.3
PICKWICK	996	68.5	170	0.1	1.78	.	1.53	.
KENTUCKY	654143	8.6	105249	39.3	2.59	11.4	1.67	12.7
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STATEWIDE	**1664642**		**282008**					

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2008

INTENDED SPECIES=SAUGER

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED
OLD HICKORY	32664	19.9	6925	18.3	0.80	27.9	0.13	42.5
FT. LOUDOUN	963	56.9	218	0.5	0.00	.	0.00	.
CHICKAMAUGA	8829	23.5	1428	4.9	2.73	19.9	0.22	33.4
WATTS BAR	9236	30.6	1539	5.2	1.95	26.0	0.24	50.9
KENTUCKY	126753	14.2	20485	71.0	0.48	25.4	0.21	29.5
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STATEWIDE	**178445**		**30595**					

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2008

INTENDED SPECIES=WALLEYE

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED
NORRIS	40665	15.5	8049	28.2	0.08	59.8	0.07	70.7
DALE HOLLOW	34411	13.0	6209	23.9	0.32	28.3	0.23	30.6
CHEROKEE	3390	38.4	686	2.4	0.27	58.7	0.07	109.6
TIMS FORD	2787	28.5	606	1.9	0.01	86.2	0.01	86.2
CENTER HILL	56375	15.2	10545	39.1	0.21	38.8	0.06	52.4
OLD HICKORY	6304	39.3	1371	4.4	0.42	31.3	0.10	0.0
MELTON HILL	161	103.8	46	0.1	0.00	.	0.00	.
NORMANDY	117	82.3	25	0.1	0.13	127.1	0.00	.
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STATEWIDE	**144210**		**27537**					

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2008

INTENDED SPECIES=SAUGEYE

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED
OLD HICKORY	1882	96.2	353	100.0	0.00	.	0.00	.

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2008

INTENDED SPECIES=ANY SPECIES

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED
NORRIS	61229	12.7	12221	6.7	0.62	53.2	0.09	85.6
DALE HOLLOW	23231	13.3	3978	2.5	0.10	85.7	0.05	167.3
REELFOOT	9154	23.8	1203	1.0	0.62	120.3	0.54	136.5
CHEROKEE	18608	17.6	3611	2.0	0.55	36.0	0.25	35.9
TIMS FORD	8995	19.0	1846	1.0	0.78	40.6	0.23	68.5
BARKLEY	10131	35.0	1647	1.1	1.37	30.5	0.64	42.1
CENTER HILL	34780	19.4	6465	3.8	0.15	142.4	0.10	131.8
PERCY PRIEST	199542	7.0	44475	21.8	1.06	24.8	0.39	33.1
OLD HICKORY	188461	9.1	40954	20.6	1.18	29.2	0.39	62.4
MELTON HILL	24005	8.6	6210	2.6	0.72	49.4	0.01	168.0
NORMANDY	3036	23.9	620	0.3	0.31	71.4	0.01	244.4
FT. LOUDOUN	31102	11.7	6812	3.4	0.74	34.6	0.07	111.5
CHICKAMAUGA	119750	10.9	19236	13.1	4.78	17.9	1.64	28.7
WATTS BAR	116692	16.4	18846	12.7	3.26	22.6	1.01	39.5
PICKWICK	14156	27.6	2442	1.5	2.25	44.1	0.61	56.7
KENTUCKY	53866	14.2	8814	5.9	2.14	39.5	0.95	53.6
STATEWIDE	**916738**		**179380**					

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2008

INTENDED SPECIES=OTHER

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED
OLD HICKORY	251	140.3	57	65.7	0.00	.	0.00	.
FT. LOUDOUN	131	137.3	25	34.3	0.00	.	0.00	.
STATEWIDE	**382**		**82**					

STATEWIDE SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS, BY LAKE - 2008

LAKE	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
NORRIS	2019560	1445110	3446080	255
DALE HOLLOW	1881360	1072780	2954030	1137
REELFOOT	2636480	661660	3298140	978
CHEROKEE	972470	1243900	2215960	1251
TIMS FORD	142110	146930	289030	34
BARKLEY	674750	434410	1108780	280
CENTER HILL	1446270	865050	2298190	562
PERCY PRIEST	2644300	824920	3469230	438
OLD HICKORY	3422680	1358790	4778820	328
MELTON HILL	382190	239860	622040	528
NORMANDY	44330	40800	85120	19
FT. LOUDOUN	806600	434000	1240590	632
CHICKAMAUGA	1799390	1852130	3651530	1284
WATTS BAR	2029290	1968850	3998130	779
PICKWICK	319760	78340	322680	81
KENTUCKY	5428740	2389990	7816210	2009
TOTAL	**26650280**	**15057520**	**41594560**	**10595**

STATEWIDE SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS, BY INTENDED SPECIES - 2008

TARGET	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBR OF INTERVIEWS
ANY CATFISH	1703200	1012380	2711770	958
MUSKELLUNGE	25160	26660	51820	20
RAINBOW TROUT	3410	1030	4320	4
ANY TROUT	19090	6150	25240	7
BROWN TROUT	9190	0	9190	1
WHITE BASS	317100	180050	496750	113
STRIPED BASS	1137100	733390	1860350	288
CHEROKEE BASS	239010	196060	435060	132
ANY SUNFISH	1288840	458760	1738960	483
ANY BLACK BASS	7977650	5207190	13126190	2961
SMALLMOUTH BASS	1195550	710750	1899810	508
SPOTTED BASS	56280	40850	95080	27
LARGEMOUTH BASS	4102260	1741820	5838800	948
ANY CRAPPIE	5431460	2600610	8026880	2633
SAUGER	553190	126890	677430	216
WALLEYE	517020	380440	894130	306
ANY SPECIES	2074470	1634410	3702400	989
OTHER	300	80	380	1
TOTAL	**26650280**	**15057520**	**41594560**	**10595**

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MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=KENTUCKY

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	59222	25.8	0.5	9726	0.1	4.0
02 FEBRUARY	160614	20.8	1.5	26718	0.2	10.8
03 MARCH	186521	23.4	1.7	30578	0.3	12.6
04 APRIL	281435	12.0	2.6	41201	0.4	19.0
05 MAY	234719	20.5	2.2	35583	0.3	15.8
06 JUNE	141932	13.2	1.3	23473	0.2	9.6
07 JULY	104411	18.8	1.0	18045	0.2	7.0
08 AUGUST	81375	20.7	0.8	13561	0.1	5.5
09 SEPTEMBER	83222	22.9	0.8	13541	0.1	5.6
10 OCTOBER	91909	12.8	0.8	15921	0.1	6.2
11 NOVEMBER	48548	22.2	0.4	9201	0.1	3.3
12 DECEMBER	11062	22.0	0.1	2435	0.0	0.7
TOTAL	**1484970**			**239983**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=KENTUCKY

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	R H
01 JANUARY	101862	43.1	1.72	33.4	53892	43.6	0.91	
02 FEBRUARY	396717	24.7	2.47	13.1	265013	25.5	1.65	
03 MARCH	481224	29.2	2.58	17.1	238747	32.0	1.28	
04 APRIL	875263	14.9	3.11	8.8	461553	16.8	1.64	
05 MAY	877849	21.5	3.74	6.3	448313	23.0	1.91	
06 JUNE	292380	19.4	2.06	14.0	102191	25.7	0.72	
07 JULY	234925	21.7	2.25	10.8	52206	34.3	0.50	
08 AUGUST	116366	26.0	1.43	15.4	30109	31.7	0.37	
09 SEPTEMBER	120672	27.5	1.45	14.9	35785	30.4	0.43	
10 OCTOBER	184737	23.2	2.01	19.2	60660	27.4	0.66	
11 NOVEMBER	69424	27.8	1.43	16.4	30585	30.9	0.63	
12 DECEMBER	16040	47.0	1.45	40.6	7412	57.8	0.67	
TOTAL	**3767459**				**1786466**			

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=KENTUCKY

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)
SKIPJACK HERRING	202	911.8	0.0	0	0	.	0.0	0	100.0	.
ALEWIFE	3420	352.7	0.1	0	1533	540.7	0.1	0	55.2	0.77
GIZZARD SHAD	1727	302.6	0.0	0	333	594.1	0.0	0	80.7	1.22
SHORTHEAD REDHORSE	2872	699.3	0.1	2872	0	.	0.0	0	100.0	.
BLUE CATFISH	140784	30.0	3.7	138730	101541	39.0	5.7	100554	27.9	2.24
CHANNEL CATFISH	64061	47.9	1.7	63724	46733	61.2	2.6	46733	27.0	2.96
FLATHEAD CATFISH	341	1183.8	0.0	341	341	1183.8	0.0	341	0.0	7.90
CHAIN PICKERAL	328	1477.0	0.0	0	0	.	0.0	0	100.0	.
TIGER MUSKIE	117	984.5	0.0	117	117	984.5	0.0	117	0.0	1.70
WHITE BASS	106081	39.7	2.8	62218	29848	48.3	1.7	22279	71.9	0.85
YELLOW BASS	195848	20.7	5.2	8197	1502	403.6	0.1	1502	99.2	0.31
STRIPED BASS	1665	315.2	0.0	1469	968	404.8	0.1	691	41.9	6.56
CHEROKEE BASS	1905	1505.7	0.1	0	1724	1591.5	0.1	0	9.5	1.48
WARMOUTH	367	1163.3	0.0	367	0	.	0.0	0	100.0	.
BLUEGILL	475123	19.3	12.6	425399	279020	27.2	15.6	273529	41.3	0.28
REDEAR SUNFISH	57453	75.9	1.5	57453	38848	94.3	2.2	38848	32.4	0.51
SMALLMOUTH BASS	7619	273.9	0.2	7306	105	1293.2	0.0	105	98.6	3.70
SPOTTED BASS	57757	57.1	1.5	47677	7612	104.7	0.4	4758	86.8	1.21
LARGEMOUTH BASS	570616	10.8	15.2	530765	16872	38.9	0.9	16358	97.0	2.65
WHITE CRAPPIE	1128103	8.3	30.0	1120073	665320	11.4	37.2	660667	41.0	0.75
BLACK CRAPPIE	839365	11.4	22.3	836877	552952	15.3	30.9	551045	34.1	0.94
BLACKNOSE CRAPPIE	39	3339.9	0.0	39	0	.	0.0	0	100.0	.
YELLOW PERCH	107	904.7	0.0	0	107	904.7	0.0	0	0.0	0.50
SAUGER	100786	20.9	2.7	97900	40497	28.3	2.3	38881	59.8	1.29
FRESHWATER DRUM	6392	301.1	0.2	107	169	1287.3	0.0	169	97.4	2.20

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=KENTUCKY

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR
ANY CATFISH	269150	8.0	44095	18.1	0.76	22.7	0.60	24.6
WHITE BASS	28297	22.6	4451	1.9	2.09	16.5	0.76	26.9
STRIPED BASS	7283	36.7	1232	0.5	0.33	77.9	0.21	114.8
ANY SUNFISH	61813	21.8	9551	4.2	7.15	23.1	4.23	14.3
ANY BLACK BASS	275430	8.0	44834	18.5	2.11	14.6	0.20	39.9
SMALLMOUTH BASS	329	143.5	50	0.0	0.00		0.00	
LARGEMOUTH BASS	7905	41.0	1223	0.5	1.72	9.0	0.23	75.0
ANY CRAPPIE	654143	8.6	105249	44.1	2.59	11.4	1.67	12.7
SAUGER	126753	14.2	20485	8.5	0.48	25.4	0.21	29.5
ANY SPECIES	53866	14.2	8814	3.6	2.14	39.5	0.95	53.6
TOTAL	**1484969**		**239984**					

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=KENTUCKY

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.52	0.41
	CHANNEL CATFISH	0.24	0.19
	FLATHEAD CATFISH	0.00	0.00
ANY SUNFISH			
	ANY SUNFISH	0.00	0.00
	WARMOUTH	0.01	0.00
	BLUEGILL	6.29	3.70
	REDEAR SUNFISH	0.85	0.53
ANY BLACK BASS			
ANY BLACK BASS			
ANY BLACK BASS			
	SMALLMOUTH BASS	0.03	0.00
	SPOTTED BASS	0.17	0.02
	LARGEMOUTH BASS	1.87	0.06
ANY CRAPPIE			
	WHITE CRAPPIE	1.48	0.91
	BLACK CRAPPIE	1.11	0.76
	BLACKNOSE CRAPPIE	0.00	0.00

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOUR
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTI

LAKE=KENTUCKY

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVI (NON-TOURN
01 JANUARY	0		0	0.98	5
02 FEBRUARY	0		0	1.46	4
03 MARCH	0		0	2.57	31
04 APRIL	35	2.18	9	2.41	42
05 MAY	45	2.31	11	2.37	34
06 JUNE	28	2.00	14	1.95	58
07 JULY	38	2.63	35	2.03	76
08 AUGUST	51	1.78	12	1.73	57
09 SEPTEMBER	23	2.66	10	1.90	41
10 OCTOBER	13	2.38	2	1.73	59
11 NOVEMBER	32	2.27	2	1.53	18

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2008

LAKE=KENTUCKY

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	596310	179590	775900	313
WHITE BASS	57730	27960	85690	31
STRIPED BASS	13550	4060	17610	13
ANY SUNFISH	168590	74370	242960	50
ANY BLACK BASS	2047980	942380	2990350	503
SMALLMOUTH BASS	2500			1
LARGEMOUTH BASS	52770	6730	59490	9
ANY CRAPPIE	2000900	1075150	3076050	892
SAUGER	364320	44130	408450	146
ANY SPECIES	124090	35620	159710	51
TOTAL	**5428740**	**2389990**	**7816210**	**2009**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=KENTUCKY

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	3461	89.4
OTHERS	412	10.6

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BENTON	729	21.4
CARROLL	245	7.2
HENRY	673	19.7
HOUSTON	231	6.8
HUMPHREYS	287	8.4
OTHERS IN TN	1243	36.5
OUT-OF-STATE	2	0.1

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	2395	62.4
B) 26-100	1186	30.9
C) 101-250	77	2.0
D) > 250	181	4.7

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	1997	97.4
B) VACATION	34	1.7
C) BUSINESS	20	1.0

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	1839	90.2
B) 2-5	116	5.7
C) 6-10	65	3.2
D) 11-15	17	0.8
F) >20	2	0.1

KENTUCKY #1

NORTH

RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=KENTUCKY #1 NORTH

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	33314	39.3	0.3	5482	0.1	3.3
02 FEBRUARY	108761	27.3	1.0	19459	0.2	10.8
03 MARCH	139545	29.8	1.3	23199	0.2	13.9
04 APRIL	235861	14.0	2.2	34180	0.3	23.4
05 MAY	168796	27.1	1.6	25721	0.2	16.8
06 JUNE	92320	19.0	0.9	14045	0.1	9.2
07 JULY	60781	22.7	0.6	9971	0.1	6.0
08 AUGUST	47986	27.7	0.4	8058	0.1	4.8
09 SEPTEMBER	33608	34.4	0.3	5698	0.1	3.3
10 OCTOBER	53432	18.5	0.5	9204	0.1	5.3
11 NOVEMBER	26897	32.8	0.2	5072	0.0	2.7
12 DECEMBER	5642	22.7	0.1	1293	0.0	0.6
TOTAL	**1006943**			**161382**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=KENTUCKY #1 NORTH

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RS HA
01 JANUARY	79287	50.0	2.38	28.8	44308	50.3	1.33	
02 FEBRUARY	330633	30.2	3.04	12.5	237099	30.4	2.18	
03 MARCH	397703	34.9	2.85	17.5	207922	36.9	1.49	
04 APRIL	806645	16.3	3.42	8.2	422191	18.2	1.79	
05 MAY	762958	27.6	4.52	5.2	405110	28.7	2.40	
06 JUNE	214182	22.7	2.32	12.2	77549	26.9	0.84	
07 JULY	108190	27.0	1.78	14.4	24920	44.1	0.41	
08 AUGUST	65261	29.7	1.36	10.5	14396	38.1	0.30	
09 SEPTEMBER	45035	38.8	1.34	17.0	9746	42.0	0.29	
10 OCTOBER	123428	25.6	2.31	17.3	43280	31.4	0.81	
11 NOVEMBER	47877	36.2	1.78	14.5	23400	37.1	0.87	
12 DECEMBER	11566	37.1	2.05	28.6	5924	41.0	1.05	
TOTAL	**2992765**				**1515845**			

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=KENTUCKY #1 NORTH

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)
ALEWIFE	1486	580.0	0.0	0	900	779.0	0.1	0	39.4	0.83
SHORTHEAD REDHORSE	2872	699.3	0.1	2872	0		0.0	0	100.0	
BLUE CATFISH	39138	96.9	1.3	38450	37212	100.5	2.5	37125	4.9	1.90
CHANNEL CATFISH	12892	209.4	0.4	12769	12532	212.1	0.8	12532	2.8	2.56
CHAIN PICKERAL	328	1477.0	0.0	0	0		0.0	0	100.0	
TIGER MUSKIE	117	984.5	0.0	117	117	984.5	0.0	117	0.0	1.70
WHITE BASS	26933	118.1	0.9	14531	3127	274.1	0.2	3127	88.4	0.59
YELLOW BASS	188699	20.0	6.3	6378	300	315.3	0.0	300	99.8	0.33
CHEROKEE BASS	1905	1505.7	0.1	0	1724	1591.5	0.1	0	9.5	1.48
BLUEGILL	388351	22.5	13.0	358388	260054	28.9	17.2	259202	33.0	0.28
REDEAR SUNFISH	47596	83.3	1.6	47596	33669	103.6	2.2	33669	29.3	0.51
SMALLMOUTH BASS	6493	309.1	0.2	6385	0		0.0	0	100.0	
SPOTTED BASS	20964	124.5	0.7	20964	272	895.2	0.0	272	98.7	1.43
LARGEMOUTH BASS	372017	13.5	12.4	343997	1518	162.8	0.1	1485	99.6	2.21
WHITE CRAPPIE	1050434	8.7	35.1	1042911	616642	12.1	40.7	612094	41.3	0.75
BLACK CRAPPIE	825095	11.4	27.6	822735	546511	15.3	36.1	544727	33.8	0.94
BLACKNOSE CRAPPIE	39	3339.9	0.0	39	0		0.0	0	100.0	
SAUGER	1421	632.6	0.0	1346	739	354.5	0.0	707	48.0	1.44
FRESHWATER DRUM	4193	360.3	0.1	0	0		0.0	0	100.0	

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=KENTUCKY #1 NORTH

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR
ANY CATFISH	119238	11.7	19095	11.8	0.58	23.7	0.57	24.1
WHITE BASS	8059	29.4	1308	0.8	1.82	24.1	0.36	75.0
ANY SUNFISH	51085	25.5	7754	5.1	8.32	9.2	6.26	10.6
ANY BLACK BASS	187208	10.0	29845	18.6	2.23	10.0	0.14	30.6
SMALLMOUTH BASS	329	143.5	50	0.0	0.00		0.00	
LARGEMOUTH BASS	1002	105.7	179	0.1	0.75		0.00	
ANY CRAPPIE	589297	9.4	94688	58.5	3.91	7.5	2.50	7.9
SAUGER	25267	26.6	4503	2.5	0.09	58.3	0.06	59.2
ANY SPECIES	25458	19.4	3959	2.5	2.72	41.2	1.40	48.4
TOTAL	**1006943**		**161381**					

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=KENTUCKY #1 NORTH

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.44	0.43
	CHANNEL CATFISH	0.14	0.14
ANY SUNFISH			
	ANY SUNFISH	0.00	0.00
	BLUEGILL	7.34	5.54
	REDEAR SUNFISH	0.98	0.72
ANY BLACK BASS			
ANY BLACK BASS			
ANY BLACK BASS			
	SMALLMOUTH BASS	0.03	0.00
	SPOTTED BASS	0.11	0.00
	LARGEMOUTH BASS	1.82	0.01
ANY CRAPPIE			
	WHITE CRAPPIE	2.19	1.32
	BLACK CRAPPIE	1.72	1.18
	BLACKNOSE CRAPPIE	0.00	0.00

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOUR
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTI

LAKE=KENTUCKY #1 NORTH

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVI (NON-TOURN
01 JANUARY	0		0	0.97	3
02 FEBRUARY	0		0	0.92	2
03 MARCH	0		0	2.59	25
04 APRIL	35	2.18	9	2.78	26
05 MAY	49	2.43	9	2.71	21
06 JUNE	28	2.00	14	2.04	43
07 JULY	41	2.46	30	1.42	54
08 AUGUST	21	2.48	3	1.67	47
09 SEPTEMBER	26	2.86	8	2.07	30
10 OCTOBER	13	2.38	2	2.14	33
11 NOVEMBER	32	2.27	2	1.70	13

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2008

LAKE=KENTUCKY #1 NORTH

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	317640	179590	497230	164
WHITE BASS	28080	15150	43230	15
ANY SUNFISH	151980	74370	226350	41
ANY BLACK BASS	1587780	940650	2528440	367
SMALLMOUTH BASS	2500			1
LARGEMOUTH BASS	6730	6730	13450	1
ANY CRAPPIE	1890830	1043130	2933960	794
SAUGER	60540	44130	104670	29
ANY SPECIES	61060	29830	90890	26
TOTAL	**4107140**	**2333580**	**6438220**	**1438**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=KENTUCKY #1 NORTH

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	2477	89
OTHERS	305	11

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BENTON	623	25.3
CARROLL	217	8.8
HENRY	671	27.3
HOUSTON	231	9.4
HUMPHREYS	164	6.7
OTHERS IN TN	552	22.4
OUT-OF-STATE	2	0.1

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	1676	60.3
B) 26-100	867	31.2
C) 101-250	62	2.2
D) > 250	176	6.3

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	1440	99
B) VACATION	15	1

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	1291	88.7
B) 2-5	82	5.6
C) 6-10	64	4.4
D) 11-15	16	1.1
F) >20	2	0.1

KENTUCKY #2

SOUTH

RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=KENTUCKY #2 SOUTH

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	25908	30.2	0.2	4244	0.0	5.4
02 FEBRUARY	51852	29.6	0.5	7259	0.1	10.8
03 MARCH	46976	28.2	0.4	7379	0.1	9.8
04 APRIL	45574	16.7	0.4	7020	0.1	9.5
05 MAY	65923	22.7	0.6	9862	0.1	13.8
06 JUNE	49612	13.2	0.5	9428	0.1	10.4
07 JULY	43630	31.9	0.4	8074	0.1	9.1
08 AUGUST	33388	31.1	0.3	5504	0.1	7.0
09 SEPTEMBER	49615	30.5	0.5	7843	0.1	10.4
10 OCTOBER	38477	16.7	0.4	6717	0.1	8.0
11 NOVEMBER	21651	28.6	0.2	4129	0.0	4.5
12 DECEMBER	5421	38.3	0.1	1141	0.0	1.1
TOTAL	**478027**			**78600**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=KENTUCKY #2 SOUTH

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE HAR R
01 JANUARY	22799	55.6	0.88	44.7	9327	54.4	0.36	4
02 FEBRUARY	65334	31.6	1.26	10.5	28000	35.3	0.54	1
03 MARCH	83148	29.9	1.77	9.7	30534	31.5	0.65	1
04 APRIL	67450	23.1	1.48	15.7	39194	19.2	0.86	
05 MAY	114047	26.8	1.73	13.9	44168	29.9	0.67	1
06 JUNE	78883	23.2	1.59	18.9	25302	34.0	0.51	3
07 JULY	126963	32.9	2.91	7.7	27051	38.3	0.62	2
08 AUGUST	50750	37.2	1.52	19.6	15692	38.4	0.47	2
09 SEPTEMBER	75415	33.7	1.52	13.7	25800	35.9	0.52	1
10 OCTOBER	61563	28.5	1.60	22.8	16930	22.0	0.44	1
11 NOVEMBER	21651	35.5	1.00	20.1	7361	45.6	0.34	3
12 DECEMBER	4445	.	0.82	.	1464	.	0.27	
TOTAL	**772448**				**270823**			

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=KENTUCKY #2 SOUTH

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AV W
SKIPJACK HERRING	202	911.8	0.0	0	0	.	0.0	0	100.0	
ALEWIFE	1934	436.2	0.3	0	633	698.4	0.2	0	67.3	
GIZZARD SHAD	1727	302.6	0.2	0	333	594.1	0.1	0	80.7	
BLUE CATFISH	101645	18.2	13.2	100403	64331	20.2	23.8	63185	36.7	
CHANNEL CATFISH	51170	28.5	6.6	50984	34203	30.9	12.6	34203	33.2	
FLATHEAD CATFISH	341	1183.8	0.0	341	341	1183.8	0.1	341	0.0	
WHITE BASS	79146	34.9	10.2	48132	26721	43.4	9.9	18897	66.2	
YELLOW BASS	7148	207.6	0.9	2274	1202	498.1	0.4	1202	83.2	
STRIPED BASS	1665	315.2	0.2	1469	968	404.8	0.4	691	41.9	
WARMOUTH	367	1163.3	0.0	367	0	.	0.0	0	100.0	
BLUEGILL	86772	32.9	11.2	63848	18965	53.8	7.0	12835	78.1	
REDEAR SUNFISH	9859	184.2	1.3	9859	5179	215.3	1.9	5179	47.5	
SMALLMOUTH BASS	1125	507.4	0.1	952	105	1293.2	0.0	105	90.7	
SPOTTED BASS	36794	54.7	4.8	25771	7340	103.4	2.7	4243	80.1	
LARGEMOUTH BASS	198598	17.7	25.7	188834	15356	39.6	5.7	14596	92.3	
WHITE CRAPPIE	77667	26.8	10.1	77184	48678	28.2	18.0	48678	37.3	
BLACK CRAPPIE	14271	125.5	1.8	14118	6440	145.6	2.4	6294	54.9	
YELLOW PERCH	107	904.7	0.0	0	107	904.7	0.0	0	0.0	
SAUGER	99365	19.2	12.9	96620	39758	28.0	14.7	38180	60.0	
FRESHWATER DRUM	2200	542.1	0.3	220	169	1287.3	0.1	169	92.3	

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=KENTUCKY #2 SOUTH

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	R H PE
ANY CATFISH	149912	10.9	24999	31.4	0.95	21.3	0.65	
WHITE BASS	20238	29.4	3143	4.2	2.19	15.2	0.92	
STRIPED BASS	7283	36.7	1232	1.5	0.33	77.9	0.21	
ANY SUNFISH	10728	32.1	1799	2.2	5.22	36.1	1.79	
ANY BLACK BASS	88222	13.1	14987	18.5	2.03	17.6	0.23	
LARGEMOUTH BASS	6903	44.4	1044	1.4	1.87	8.4	0.26	
ANY CRAPPIE	64846	12.9	10560	13.6	1.33	22.9	0.80	
SAUGER	101486	16.4	15983	21.2	0.81	17.7	0.33	
ANY SPECIES	28408	20.6	4855	5.9	1.81	29.3	0.52	
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TOTAL	**478026**		**78602**					

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=KENTUCKY #2 SOUTH

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.63	0.42
	CHANNEL CATFISH	0.32	0.23
	FLATHEAD CATFISH	0.00	0.00
ANY SUNFISH			
	WARMOUTH	0.03	0.00
	BLUEGILL	4.50	1.28
	REDEAR SUNFISH	0.69	0.51
ANY BLACK BASS			
ANY BLACK BASS			
	SMALLMOUTH BASS	0.01	0.00
	SPOTTED BASS	0.27	0.04
	LARGEMOUTH BASS	1.99	0.15
ANY CRAPPIE			
	WHITE CRAPPIE	1.12	0.71
	BLACK CRAPPIE	0.21	0.09

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOUR
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTI

LAKE=KENTUCKY #2 SOUTH

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVI (NON-TOURN
01 JANUARY	0		0	1.00	2
02 FEBRUARY	0		0	2.00	2
03 MARCH	0		0	2.49	6
04 APRIL	0		0	1.81	16
05 MAY	25	1.75	2	1.83	13
06 JUNE	0		0	1.68	15
07 JULY	20	3.67	5	3.51	22
08 AUGUST	61	1.54	9	2.03	10
09 SEPTEMBER	12	1.88	2	1.44	11
10 OCTOBER	0		0	1.21	26
11 NOVEMBER	0		0	1.09	5

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2008

LAKE=KENTUCKY #2 SOUTH

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	278670	0	278670	149
WHITE BASS	29650	12810	42460	16
STRIPED BASS	13550	4060	17610	13
ANY SUNFISH	16610	0	16610	9
ANY BLACK BASS	460200	1720	461920	136
LARGEMOUTH BASS	46040	0	46040	8
ANY CRAPPIE	110070	32020	142100	98
SAUGER	303780	0	303780	117
ANY SPECIES	63030	5790	68820	25
TOTAL	**1321600**	**56400**	**1378010**	**571**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=KENTUCKY #2 SOUTH

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
MS	95	8.7
TN	984	90.2
OTHERS	12	1.1

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BENTON	106	11.2
DECATUR	98	10.3
HARDIN	97	10.2
HUMPHREYS	123	12.9
MADISON	115	12.1
PERRY	68	7.2
OTHERS IN TN	343	36.1

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	719	68.0
B) 26-100	319	30.2
C) 101-250	15	1.4
D) > 250	5	0.5

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	557	93.5
B) VACATION	19	3.2
C) BUSINESS	20	3.4

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	548	93.8
B) 2-5	34	5.8
C) 6-10	1	0.2
D) 11-15	1	0.2

BARKLEY
RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=BARKLEY

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	1066	47.6	0.1	208	0.0	0.8
02 FEBRUARY	1400	15.2	0.1	256	0.0	1.1
04 APRIL	26759	12.2	1.5	4302	0.2	20.4
05 MAY	36449	37.6	2.0	6087	0.3	27.8
06 JUNE	18132	12.5	1.0	2814	0.2	13.8
07 JULY	13795	30.1	0.8	2239	0.1	10.5
08 AUGUST	6716	2.0	0.4	1311	0.1	5.1
09 SEPTEMBER	7524	34.0	0.4	1156	0.1	5.7
10 OCTOBER	13006	17.0	0.7	2046	0.1	9.9
11 NOVEMBER	4829	22.8	0.3	979	0.1	3.7
12 DECEMBER	1443	21.2	0.1	307	0.0	1.1
TOTAL	**131119**			**21705**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=BARKLEY

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE HAR R
01 JANUARY	3027	49.1	2.84	11.1	2420	48.8	2.27	1
02 FEBRUARY	2492	17.1	1.78	7.8	1876	16.1	1.34	
04 APRIL	69573	18.5	2.60	13.8	27829	22.4	1.04	1
05 MAY	116637	44.2	3.20	21.8	67431	46.6	1.85	2
06 JUNE	40072	17.5	2.21	12.1	20670	22.2	1.14	1
07 JULY	21934	30.9	1.59	6.4	4552	34.8	0.33	1
08 AUGUST	11149	9.8	1.66	9.5	3022	13.7	0.45	1
09 SEPTEMBER	3687	37.5	0.49	14.9	1053	37.8	0.14	1
10 OCTOBER	21720	23.0	1.67	15.1	8064	19.4	0.62	
11 NOVEMBER	11541	31.7	2.39	21.4	6229	35.2	1.29	2
12 DECEMBER	2958		2.05		1645		1.14	
TOTAL	**304790**				**144791**			

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=BARKLEY

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AV W
BLUE CATFISH	12759	128.4	4.2	11750	11408	135.1	7.9	10915	10.6	
CHANNEL CATFISH	4328	190.6	1.4	4063	4328	190.6	3.0	4063	0.0	
FLATHEAD CATFISH	87	1827.1	0.0	87	87	1827.1	0.1	87	0.0	
WHITE BASS	4549	86.9	1.5	3791	1823	86.3	1.3	1823	59.9	
YELLOW BASS	19137	52.9	6.3	1211	134	448.3	0.1	134	99.3	
STRIPED BASS	105	739.8	0.0	0	56	858.6	0.0	0	46.7	
BLUEGILL	68187	42.5	22.4	63826	48323	53.2	33.4	48323	29.1	
REDEAR SUNFISH	9447	154.1	3.1	9447	9167	158.2	6.3	9167	3.0	
SMALLMOUTH BASS	50	1725.3	0.0	50	0		0.0	0	100.0	
LARGEMOUTH BASS	79846	18.3	26.2	77430	1861	145.0	1.3	1861	97.7	
WHITE CRAPPIE	56636	35.2	18.6	56636	35585	46.2	24.6	35585	37.2	
BLACK CRAPPIE	47957	30.6	15.7	47712	32022	36.9	22.1	31906	33.2	
FRESHWATER DRUM	1835	282.3	0.6	153	0		0.0	0	100.0	

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=BARKLEY

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RS HA PER
ANY CATFISH	22031	17.6	3565	16.8	0.89	31.5	0.85	3
WHITE BASS	1623	42.0	291	1.2	2.07	26.9	1.18	3
ANY SUNFISH	9995	43.2	1640	7.6	7.73	9.0	6.29	1
ANY BLACK BASS	50129	15.0	8274	38.2	2.01	13.8	0.24	2
ANY CRAPPIE	37208	15.0	6285	28.4	3.74	18.0	2.41	1
ANY SPECIES	10131	35.0	1647	7.7	1.37	30.5	0.64	4
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TOTAL	**131117**		**21702**					

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=BARKLEY

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	BLUE CATFISH	0.66	0.62
	CHANNEL CATFISH	0.23	0.23
	FLATHEAD CATFISH	0.00	0.00
ANY SUNFISH			
	BLUEGILL	6.73	5.29
	REDEAR SUNFISH	1.00	1.00
ANY BLACK BASS			
	SMALLMOUTH BASS	0.00	0.00
	LARGEMOUTH BASS	1.54	0.04
ANY CRAPPIE			
	WHITE CRAPPIE	2.03	1.27
	BLACK CRAPPIE	1.71	1.14

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOUR
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTI

LAKE=BARKLEY

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVI (NON-TOURN
01 JANUARY	0		0	0.00	1
04 APRIL	16	1.58	3	2.31	10
05 MAY	67	1.98	5	1.83	6
06 JUNE	75	2.38	11	1.59	9
07 JULY	54	2.44	9	1.43	14
08 AUGUST	0		0	1.66	11
09 SEPTEMBER	54	1.78	5	1.64	6
10 OCTOBER	10	1.63	2	2.67	15
11 NOVEMBER	0		0	1.09	6
12 DECEMBER	0		0	0.73	1

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2008

LAKE=BARKLEY

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	58840	22420	81260	41
WHITE BASS	6400	2100	8110	9
ANY SUNFISH	41810	19560	61370	8
ANY BLACK BASS	410510	307710	718220	114
ANY CRAPPIE	129990	69140	199130	97
ANY SPECIES	27200	13480	40690	11
TOTAL	**674750**	**434410**	**1108780**	**280**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=BARKLEY

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	558	99.6
OTHERS	2	0.4

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
MONTGOMERY	268	48.2
ROBERTSON	40	7.2
STEWART	212	38.1
OTHERS IN TN	36	6.5

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	263	47.0
B) 26-100	295	52.7
D) > 250	2	0.4

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	278	98.6
B) VACATION	3	1.1
C) BUSINESS	1	0.4

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	271	96.1
B) 2-5	11	3.9

PICKWICK
RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=PICKWICK

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	1326	40.0	0.2	234	0.0	2.0
02 FEBRUARY	1602		0.3			2.4
03 MARCH	16607	42.7	2.7	2291	0.4	24.6
04 APRIL	10320	10.9	1.7	1629	0.3	15.3
05 MAY	9733		1.6	1693	0.3	14.4
06 JUNE	6277	38.4	1.0	1065	0.2	9.3
07 JULY	4710	13.3	0.8	853	0.1	7.0
08 AUGUST	4932	9.3	0.8	652	0.1	7.3
09 SEPTEMBER	6300		1.0	1260	0.2	9.3
10 OCTOBER	5733	42.9	0.9	1349	0.2	8.5
11 NOVEMBER	0		0.0			0.0
12 DECEMBER	0		0.0			0.0
TOTAL	**67540**			**11026**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=PICKWICK

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE HAR R
01 JANUARY	517		0.39		186		0.14	
03 MARCH	8968		0.54		3155		0.19	
04 APRIL	13210	55.7	1.28	54.5	1754	53.3	0.17	5
05 MAY	4283		0.44		779		0.08	
06 JUNE	3452	43.3	0.55	18.7	565	45.9	0.09	2
07 JULY	6688	38.8	1.42	36.0	1554	19.7	0.33	1
08 AUGUST	1973	9.3	0.40	0.3	197	104.7	0.04	10
09 SEPTEMBER	3276		0.52		2016		0.32	
10 OCTOBER	2236		0.39		0		0.00	
TOTAL	**44603**				**10206**			

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=PICKWICK

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVER WEI (LB
BLUE CATFISH	4153	17.7	9.3	4153	3878	14.7	38.0	3878	6.6	4.
CHANNEL CATFISH	2526	69.4	5.7	2526	1338	51.6	13.1	1338	47.0	2.
BLUEGILL	14625	43.2	32.8	14625	2353	24.7	23.1	2353	83.9	0.
SMALLMOUTH BASS	1359	159.1	3.1	1359	16	365.1	0.2	16	98.8	2.
SPOTTED BASS	2520	112.3	5.7	2520	186	0.0	1.8	186	92.6	1.
LARGEMOUTH BASS	16171	28.0	36.3	16171	1330	23.6	13.0	1330	91.8	2.
WHITE CRAPPIE	1198	202.8	2.7	1198	888	89.8	8.7	888	25.9	0.
SAUGER	529	254.5	1.2	212	219	71.8	2.1	219	58.6	1.

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=PICKWICK

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	R H PE
ANY CATFISH	13582	21.7	2319	20.6	0.76	14.1	0.66	
ANY SUNFISH	3941	15.9	682	6.0	3.08		0.00	
ANY BLACK BASS	32931	19.5	5360	49.9	0.78	25.9	0.09	
LARGEMOUTH BASS	333	142.6	53	0.5	1.00		0.00	
ANY CRAPPIE	996	68.5	170	1.5	1.78		1.53	
ANY SPECIES	14156	27.6	2442	21.5	2.25	44.1	0.61	
TOTAL	**65939**		**11026**					

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=PICKWICK

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	BLUE CATFISH	0.47	0.49
	CHANNEL CATFISH	0.29	0.17
ANY SUNFISH			
	ANY SUNFISH	0.00	0.00
	BLUEGILL	3.08	0.00
ANY BLACK BASS			
ANY BLACK BASS			
	SMALLMOUTH BASS	0.04	0.00
	SPOTTED BASS	0.08	0.01
	LARGEMOUTH BASS	0.49	0.04
ANY CRAPPIE			
	WHITE CRAPPIE	1.78	1.53

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOUR
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTI

LAKE=PICKWICK

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEW (NON-TOURNAM
01 JANUARY	0		0	0.86	2
03 MARCH	36	0.63	2	0.86	4
04 APRIL	18	0.50	2	1.04	6
05 MAY	0		0	0.67	5
06 JUNE	60	0.67	3	2.13	5
07 JULY	19	1.00	1	0.83	11
08 AUGUST	99	0.47	4	0.00	1
10 OCTOBER	0		0	0.61	3

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2008

LAKE=PICKWICK

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	22030	6660	24870	21
ANY SUNFISH	2280	0	390	2
ANY BLACK BASS	283160	67990	292530	48
LARGEMOUTH BASS	5260			1
ANY CRAPPIE	1050			1
ANY SPECIES	5980	3690	4890	8
TOTAL	**319760**	**78340**	**322680**	**81**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=PICKWICK

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
MS	86	50.6
TN	80	47.1
OTHERS	4	2.4

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
CHESTER	4	5.0
HARDEMAN	7	8.8
HARDIN	18	22.5
LEWIS	6	7.5
McNAIRY	13	16.3
MADISON	6	7.5
SHELBY	7	8.8
WAYNE	5	6.3
OTHERS IN TN	10	12.5
OUT-OF-STATE	4	5.0

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	107	61.8
B) 26-100	55	31.8
C) 101-250	8	4.6
D) > 250	3	1.7

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	70	83.3
B) VACATION	6	7.1
C) BUSINESS	8	9.5

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	69	82.1
B) 2-5	14	16.7
C) 6-10	1	1.2

REELFOOT
RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=REELFOOT

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
02 FEBRUARY	5992	52.2	0.6	1029	0.1	1.2
03 MARCH	100441	28.1	9.6	14172	1.4	19.3
04 APRIL	223253	16.2	21.4	28157	2.7	42.9
05 MAY	154382	15.3	14.8	18326	1.8	29.7
06 JUNE	17299	16.2	1.7	2368	0.2	3.3
07 JULY	4664	29.4	0.4	691	0.1	0.9
08 AUGUST	4489	41.8	0.4	721	0.1	0.9
09 SEPTEMBER	2477	37.7	0.2	400	0.0	0.5
10 OCTOBER	5623	36.0	0.5	801	0.1	1.1
11 NOVEMBER	1855	60.8	0.2	330	0.0	0.4
TOTAL	**520475**			**66995**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=REELFOOT

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RS HA
02 FEBRUARY	8089	60.3	1.35	26.9	6651	60.9	1.11	
03 MARCH	108476	37.6	1.08	24.2	82362	40.1	0.82	
04 APRIL	593853	18.4	2.66	8.5	426413	17.8	1.91	
05 MAY	447708	16.4	2.90	5.8	304133	16.5	1.97	
06 JUNE	39788	29.5	2.30	24.3	23008	30.8	1.33	
07 JULY	8535	50.7	1.83	39.6	4198	76.1	0.90	
08 AUGUST	2649	53.6	0.59	31.1	898	68.6	0.20	
09 SEPTEMBER	1734	54.0	0.70	36.2	446	55.4	0.18	
10 OCTOBER	20187	38.6	3.59	13.1	12314	40.6	2.19	
11 NOVEMBER	1874	62.9	1.01	13.9	686	73.5	0.37	
TOTAL	**1232893**				**861109**			

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=REELFOOT

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVE WE (I
SHORTNOSE GAR	41	1863.0	0.0	0	41	1863.0	0.0	0	0.0	2
BOWFIN	133	1038.6	0.0	67	0	.	0.0	0	100.0	
CHANNEL CATFISH	26233	52.1	2.1	6843	22102	59.1	2.6	5440	15.7	2
YELLOW BASS	43221	38.3	3.5	474	26792	54.2	3.1	246	38.0	0
WARMOUTH	3390	196.2	0.3	3390	808	707.7	0.1	808	76.2	0
BLUEGILL	358231	13.9	29.0	353856	284475	16.7	33.0	281470	20.6	0
LONGEAR SUNFISH	106	3757.8	0.0	106	0	.	0.0	0	100.0	
LARGEMOUTH BASS	35083	37.0	2.8	34886	774	253.4	0.1	774	97.8	3
WHITE CRAPPIE	752110	11.0	60.9	733718	523926	14.5	60.8	510124	30.3	0
BLACK CRAPPIE	1462	821.5	0.1	1329	1462	821.5	0.2	1329	0.0	0
FRESHWATER DRUM	14360	83.3	1.2	0	728	470.5	0.1	0	94.9	2

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=REELFOOT

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RS HA PER
ANY CATFISH	6759	26.6	872	1.3	0.55	34.1	0.49	
ANY SUNFISH	121760	13.5	14779	23.4	2.50	5.9	2.05	
ANY BLACK BASS	42972	14.1	5526	8.3	0.73	13.2	0.02	
ANY CRAPPIE	339830	12.6	44615	65.3	1.91	7.8	1.36	
ANY SPECIES	9154	23.8	1203	1.8	0.62	120.3	0.54	1
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TOTAL	**520475**		**66995**					

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=REELFOOT

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	CHANNEL CATFISH	0.55	0.49
ANY SUNFISH			
	WARMOUTH	0.02	0.01
	BLUEGILL	2.48	2.04
	LONGEAR SUNFISH	0.00	0.00
ANY BLACK BASS			
	LARGEMOUTH BASS	0.81	0.02
ANY CRAPPIE			
	WHITE CRAPPIE	1.91	1.36
	BLACK CRAPPIE	0.00	0.00

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOUR
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTI

LAKE=REELFOOT

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVI (NON-TOURN
03 MARCH	0		0	0.45	13
04 APRIL	0		0	1.01	17
05 MAY	0		0	0.72	52
06 JUNE	0		0	0.65	16
07 JULY	0		0	0.86	22
08 AUGUST	0		0	0.58	8
09 SEPTEMBER	0		0	0.40	3

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2008

LAKE=REELFOOT

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	28790	6710	35500	19
ANY SUNFISH	730520	181250	911770	249
ANY BLACK BASS	121380	47090	168470	131
ANY CRAPPIE	1687950	410150	2098100	557
ANY SPECIES	67840	16460	84300	22
TOTAL	**2636480**	**661660**	**3298140**	**978**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=REELFOOT

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
IL	379	20.6
IN	154	8.4
KY	122	6.6
MO	208	11.3
OH	190	10.3
TN	674	36.7
OTHERS	112	6.1

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
CROCKETT	48	7.1
DYER	116	17.2
LAKE	67	9.9
OBION	316	46.9
OTHERS IN TN	125	18.5
OUT-OF-STATE	2	0.3

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	383	20.8
B) 26-100	442	24.0
C) 101-250	262	14.2
D) > 250	752	40.9

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	983	100

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	523	53.2
B) 2-5	361	36.7
C) 6-10	94	9.6
D) 11-15	3	0.3
F) >20	2	0.2

TWRA

REGION II

TIMS FORD
RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=TIMS FORD

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	2426	50.7	0.2	462	0.0	4.3
02 FEBRUARY	2142	15.8	0.2	491	0.0	3.8
03 MARCH	5010	33.8	0.5	885	0.1	8.9
04 APRIL	6784	22.1	0.6	1147	0.1	12.0
05 MAY	5794	17.4	0.5	1064	0.1	10.3
06 JUNE	5392	27.0	0.5	1322	0.1	9.6
07 JULY	10175	36.1	1.0	2327	0.2	18.0
08 AUGUST	3422	36.7	0.3	709	0.1	6.1
09 SEPTEMBER	6074	26.7	0.6	1241	0.1	10.8
10 OCTOBER	4910	19.8	0.5	1019	0.1	8.7
11 NOVEMBER	2879	21.3	0.3	650	0.1	5.1
12 DECEMBER	1399	61.7	0.1	325	0.0	2.5
TOTAL	**56407**			**11642**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=TIMS FORD

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE HAR R
01 JANUARY	2377	86.1	0.98	62.2	146	65.3	0.06	3
02 FEBRUARY	1821	43.9	0.85	40.5	129	79.5	0.06	7
03 MARCH	3908	37.6	0.78	15.5	1353	36.3	0.27	1
04 APRIL	3121	36.9	0.46	28.6	339	71.1	0.05	6
05 MAY	6779	81.8	1.17	79.0	1506	85.0	0.26	8
06 JUNE	2696	66.9	0.50	59.3	377	72.4	0.07	6
07 JULY	5393	43.3	0.53	22.5	2442	70.2	0.24	5
08 AUGUST	1266	45.8	0.37	25.6	376	55.1	0.11	4
09 SEPTEMBER	2733	35.4	0.45	22.7	1093	46.1	0.18	3
10 OCTOBER	1915	39.9	0.39	33.9	589	52.4	0.12	4
11 NOVEMBER	2994	39.0	1.04	32.0	921	74.8	0.32	7
12 DECEMBER	783	120.7	0.56	88.1	182	113.3	0.13	7
TOTAL	**35786**				**9453**			

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=TIMS FORD

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AV W
ANY GAR	62	580.5	0.2	0	0		0.0	0	100.0	
CARP	37	837.0	0.1	0	0		0.0	0	100.0	
BLUE CATFISH	42	575.5	0.1	0	42	575.5	0.4	0	0.0	
CHANNEL CATFISH	1764	61.6	4.9	1283	1244	70.8	13.2	1175	29.5	
FLATHEAD CATFISH	34	571.8	0.1	34	0		0.0	0	100.0	
WHITE BASS	755	156.6	2.1	240	209	229.2	2.2	42	72.3	
STRIPED BASS	747	118.4	2.1	575	393	131.0	4.2	360	47.4	
CHEROKEE BASS	1024	100.2	2.9	341	726	113.2	7.7	311	29.1	
BLUEGILL	3475	63.5	9.7	3273	615	115.7	6.5	564	82.3	
SMALLMOUTH BASS	7933	31.3	22.2	7675	476	52.0	5.0	413	94.0	
SPOTTED BASS	2102	57.2	5.9	1972	73	124.5	0.8	58	96.5	
LARGEMOUTH BASS	5306	35.3	14.8	5163	699	71.2	7.4	699	86.8	
WHITE CRAPPIE	482	152.4	1.3	482	401	132.5	4.2	401	16.8	
BLACK CRAPPIE	1324	77.0	3.7	1245	1196	79.3	12.7	1196	9.7	
BLACKNOSE CRAPPIE	3013	40.7	8.4	2926	2760	42.8	29.2	2699	8.4	
WALLEYE	95	234.9	0.3	63	95	234.9	1.0	63	0.0	
FRESHWATER DRUM	220	432.4	0.6	37	0		0.0	0	100.0	

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=TIMS FORD

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	R H PE
ANY CATFISH	521	73.1	111	0.9	0.29		0.00	
WHITE BASS	251	69.7	50	0.4	0.46	0.0	0.00	
STRIPED BASS	5962	24.2	1280	10.6	0.10	55.5	0.06	
CHEROKEE BASS	789	44.0	158	1.4	0.36	44.1	0.30	
ANY SUNFISH	1942	38.3	440	3.4	0.49	42.6	0.00	
ANY BLACK BASS	26982	10.3	5477	47.8	0.38	24.7	0.03	
SMALLMOUTH BASS	214	76.4	41	0.4	0.47		0.00	
LARGEMOUTH BASS	97	113.8	20	0.2	0.00		0.00	
ANY CRAPPIE	7867	14.6	1614	13.9	0.94	59.9	0.49	
WALLEYE	2787	28.5	606	4.9	0.01	86.2	0.01	
ANY SPECIES	8995	19.0	1846	15.9	0.78	40.6	0.23	
TOTAL	**56407**		**11643**					

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=TIMS FORD

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	BLUE CATFISH	0.00	0.00
	CHANNEL CATFISH	0.28	0.00
	FLATHEAD CATFISH	0.01	0.00
ANY SUNFISH			
	ANY SUNFISH	0.00	0.00
	BLUEGILL	0.49	0.00
ANY BLACK BASS			
ANY BLACK BASS			
ANY BLACK BASS			
	SMALLMOUTH BASS	0.28	0.02
	SPOTTED BASS	0.07	0.00
	LARGEMOUTH BASS	0.19	0.03
ANY CRAPPIE			
	ANY CRAPPIE	0.00	0.00
	WHITE CRAPPIE	0.10	0.05
	BLACK CRAPPIE	0.25	0.14
	BLACKNOSE CRAPPIE	0.59	0.31

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOUR
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTI

LAKE=TIMS FORD

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVI (NON-TOURN
01 JANUARY	29	0.36	5	0.49	13
02 FEBRUARY	0		0	0.18	15
03 MARCH	0		0	0.57	34
04 APRIL	33	0.19	11	0.56	32
05 MAY	48	0.29	6	0.40	19
06 JUNE	0		0	0.25	17
07 JULY	0		0	0.29	11
08 AUGUST	0		0	0.44	11
09 SEPTEMBER	0		0	0.38	18
10 OCTOBER	0		0	0.25	19
11 NOVEMBER	42	0.47	6	0.56	20
12 DECEMBER	0		0	0.37	6

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2008

LAKE=TIMS FORD

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
WHITE BASS	1000	1000	2000	1
STRIPED BASS	24090	11620	35710	3
ANY BLACK BASS	79520	89950	169470	15
ANY CRAPPIE	18850	21680	40530	10
WALLEYE	670	330	1000	1
ANY SPECIES	17980	22350	40320	4
TOTAL	**142110**	**146930**	**289030**	**34**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=TIMS FORD

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
IN	6	5.8
TN	94	90.4
OTHERS	4	3.8

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BEDFORD	15	17.4
COFFEE	5	5.8
FRANKLIN	50	58.1
MARSHALL	5	5.8
OTHERS IN TN	11	12.8

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	72	76.6
B) 26-100	17	18.1
C) 101-250	5	5.3

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	43	91.5
B) VACATION	2	4.3
D) OTHER	2	4.3

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	37	90.2
B) 2-5	4	9.8

NORMANDY
RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=NORMANDY

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	247	53.0	0.1	55	0.0	0.7
02 FEBRUARY	1735	22.8	0.6	392	0.1	4.9
03 MARCH	2173	40.9	0.7	454	0.1	6.1
04 APRIL	3712	52.0	1.2	632	0.2	10.5
05 MAY	3601	44.3	1.2	858	0.3	10.2
06 JUNE	4644	21.8	1.5	1086	0.4	13.1
07 JULY	5995	22.4	2.0	1154	0.4	16.9
08 AUGUST	3413	32.4	1.1	675	0.2	9.6
09 SEPTEMBER	1373	45.3	0.5	308	0.1	3.9
10 OCTOBER	5207	31.7	1.7	976	0.3	14.7
11 NOVEMBER	2249	48.7	0.7	479	0.2	6.4
12 DECEMBER	1038	46.7	0.3	191	0.1	2.9
TOTAL	**35387**			**7260**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=NORMANDY

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE HAR R
01 JANUARY	519	72.8	2.10	44.3	331	99.7	1.34	7
02 FEBRUARY	364	42.1	0.21	34.4	156	22.8	0.09	
03 MARCH	630	46.8	0.29	21.3	87	69.1	0.04	4
04 APRIL	2153	66.1	0.58	36.1	1448	82.5	0.39	5
05 MAY	2701	49.9	0.75	21.1	684	53.5	0.19	2
06 JUNE	2879	28.7	0.62	18.2	1440	49.9	0.31	4
07 JULY	2998	29.7	0.50	18.8	480	44.4	0.08	3
08 AUGUST	1297	41.8	0.38	24.8	580	54.2	0.17	4
09 SEPTEMBER	1098	62.0	0.80	38.7	302	67.5	0.22	4
10 OCTOBER	2812	49.5	0.54	36.5	833	65.8	0.16	5
11 NOVEMBER	2339	51.2	1.04	14.5	405	63.6	0.18	3
12 DECEMBER	529	52.8	0.51	22.2	218	98.0	0.21	7
TOTAL	**20319**				**6964**			

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=NORMANDY

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AV W
CARP	7	966.8	0.0	0	0		0.0	0	100.0	
ANY CARPSUCKER	27	867.9	0.1	14	0		0.0	0	100.0	
YELLOW BULLHEAD	24	482.4	0.1	24	24	482.4	0.3	24	0.0	
BLUE CATFISH	70	411.0	0.3	40	70	411.0	1.0	40	0.0	
CHANNEL CATFISH	640	88.3	3.2	516	412	89.3	5.9	356	35.6	
FLATHEAD CATFISH	188	146.3	0.9	171	179	150.7	2.6	162	4.8	
ROCK BASS	46	677.2	0.2	31	39	779.6	0.6	39	15.2	
WARMOUTH	31	548.4	0.2	16	19	805.5	0.3	0	38.7	
BLUEGILL	368	163.8	1.8	156	8	513.1	0.1	0	97.8	
SMALLMOUTH BASS	595	121.3	2.9	583	67	226.6	1.0	60	88.7	
SPOTTED BASS	5076	20.4	25.1	4843	1699	32.8	24.4	1668	66.5	
LARGEMOUTH BASS	3109	24.3	15.3	3063	578	41.2	8.3	562	81.4	
WHITE CRAPPIE	597	97.8	2.9	597	549	100.3	7.9	549	8.0	
BLACK CRAPPIE	574	89.3	2.8	515	542	92.7	7.8	482	5.6	
BLACKNOSE CRAPPIE	3528	32.0	17.4	3333	2776	33.9	39.9	2645	21.3	
YELLOW PERCH	53	420.4	0.3	40	0		0.0	0	100.0	
WALLEYE	37	721.7	0.2	25	0		0.0	0	100.0	

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=NORMANDY

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	R H PE
ANY CATFISH	2332	25.8	463	6.6	0.32	39.1	0.24	
ANY SUNFISH	217	80.3	42	0.6	1.67		0.00	
ANY BLACK BASS	18176	11.9	3781	51.4	0.52	27.4	0.18	
LARGEMOUTH BASS	177	64.0	35	0.5	0.28	20.9	0.00	
ANY CRAPPIE	11329	17.4	2293	32.0	0.67	46.6	0.29	
WALLEYE	117	82.3	25	0.3	0.13	127.1	0.00	
ANY SPECIES	3036	23.9	620	8.6	0.31	71.4	0.01	
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TOTAL	**35384**		**7259**					

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=NORMANDY

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	YELLOW BULLHEAD	0.01	0.01
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.02	0.02
	CHANNEL CATFISH	0.22	0.15
	FLATHEAD CATFISH	0.07	0.07
ANY SUNFISH			
	ANY SUNFISH	0.00	0.00
	WARMOUTH	0.16	0.00
	BLUEGILL	1.51	0.00
ANY BLACK BASS			
ANY BLACK BASS			
	ANY BLACK BASS	0.00	0.00
	SMALLMOUTH BASS	0.03	0.00
	SPOTTED BASS	0.26	0.09
	LARGEMOUTH BASS	0.17	0.03
ANY CRAPPIE			
	ANY CRAPPIE	0.00	0.00
	WHITE CRAPPIE	0.09	0.04
	BLACK CRAPPIE	0.08	0.04
	BLACKNOSE CRAPPIE	0.50	0.21

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOUR
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTI

LAKE=NORMANDY

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVI (NON-TOURN
01 JANUARY	0		0	3.75	1
02 FEBRUARY	0		0	0.32	5
03 MARCH	24	0.64	10	0.32	20
04 APRIL	0		0	0.19	12
05 MAY	0		0	0.58	18
06 JUNE	23	1.40	9	0.50	27
07 JULY	18	0.80	7	0.45	23
08 AUGUST	34	0.58	11	0.59	22
09 SEPTEMBER	25	0.04	3	0.44	10
10 OCTOBER	0		0	0.27	9
11 NOVEMBER	0		0	0.64	9
12 DECEMBER	0		0	0.28	16

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2008

LAKE=NORMANDY

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY BLACK BASS	26300	23920	50220	10
ANY CRAPPIE	16680	15210	31880	7
ANY SPECIES	1350	1670	3020	2
TOTAL	**44330**	**40800**	**85120**	**19**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=NORMANDY

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	42	100

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BEDFORD	18	43.9
COFFEE	6	14.6
FRANKLIN	8	19.5
OTHERS IN TN	9	22.0

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	25	59.5
B) 26-100	17	40.5

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	24	100

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	23	100

J. PERCY PRIEST RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=PERCY PRIEST

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	26388	21.3	1.9	5824	0.4	3.4
02 FEBRUARY	37500	7.4	2.6	7868	0.6	4.8
03 MARCH	92702	8.4	6.5	22260	1.6	11.8
04 APRIL	103454	13.4	7.3	22183	1.6	13.2
05 MAY	105559	14.0	7.4	22786	1.6	13.5
06 JUNE	103427	6.4	7.3	23563	1.7	13.2
07 JULY	105938	27.5	7.5	24386	1.7	13.5
08 AUGUST	61150	28.3	4.3	12963	0.9	7.8
09 SEPTEMBER	54956	7.1	3.9	11854	0.8	7.0
10 OCTOBER	40577	13.8	2.9	9191	0.6	5.2
11 NOVEMBER	38943	9.7	2.7	8613	0.6	5.0
12 DECEMBER	13102	39.3	0.9	3011	0.2	1.7
TOTAL	**783696**			**174502**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=PERCY PRIEST

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RS HA
01 JANUARY	34041	23.4	1.29	9.3	11083	25.4	0.42	
02 FEBRUARY	29625	26.8	0.79	25.8	12000	45.3	0.32	
03 MARCH	162229	34.2	1.75	33.1	51913	28.4	0.56	
04 APRIL	136559	16.4	1.32	9.4	36209	20.3	0.35	
05 MAY	118226	19.0	1.12	12.8	25334	20.0	0.24	
06 JUNE	112735	17.8	1.09	16.6	26891	21.1	0.26	
07 JULY	126066	34.4	1.19	20.0	45553	39.2	0.43	
08 AUGUST	88056	36.6	1.44	22.3	25072	49.3	0.41	
09 SEPTEMBER	91227	18.1	1.66	16.5	26379	30.2	0.48	
10 OCTOBER	60460	19.2	1.49	13.2	15419	21.9	0.38	
11 NOVEMBER	53741	21.4	1.38	18.9	12851	23.2	0.33	
12 DECEMBER	22929	60.4	1.75	42.8	4193	48.0	0.32	
TOTAL	**1035894**				**292897**			

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=PERCY PRIEST

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED
SKIPJACK HERRING	1526	513.1	0.1	0	66	1428.1	0.0	0	95.7
CARP	1198	582.9	0.1	737	169	678.2	0.1	169	85.9
BLUE CATFISH	466	998.4	0.0	280	239	1256.7	0.1	239	48.7
CHANNEL CATFISH	27809	35.7	2.7	19294	17533	41.6	6.0	14260	37.0
FLATHEAD CATFISH	2474	269.7	0.2	1237	2093	261.4	0.7	1196	15.4
RAINBOW TROUT	70	3861.8	0.0	0	0		0.0	0	100.0
WHITE BASS	58108	25.3	5.6	31022	14027	39.8	4.8	9287	75.9
YELLOW BASS	99402	20.2	9.6	50608	29930	27.3	10.2	17103	69.9
STRIPED BASS	6917	155.1	0.7	4249	2510	178.6	0.9	1778	63.7
CHEROKEE BASS	31849	43.1	3.1	15582	9750	63.5	3.3	5766	69.4
GREEN SUNFISH	24851	73.7	2.4	19714	14293	72.4	4.9	11101	42.5
WARMOUTH	449	954.9	0.0	180	348	968.9	0.1	174	22.5
BLUEGILL	117302	17.7	11.3	80560	35690	23.1	12.2	31325	69.6
LONGEAR SUNFISH	9091	130.5	0.9	7556	4241	159.0	1.4	3484	53.3
REDEAR SUNFISH	227	1575.5	0.0	0	101	1259.6	0.0	0	55.5
SMALLMOUTH BASS	17372	86.7	1.7	3647	2333	112.7	0.8	350	86.6
SPOTTED BASS	34739	48.4	3.4	4749	3746	71.4	1.3	672	89.2
LARGEMOUTH BASS	276652	9.5	26.7	238325	19158	17.6	6.5	17974	93.1
WHITE CRAPPIE	202072	11.6	19.5	191736	76113	14.9	26.0	73398	62.3
BLACK CRAPPIE	118132	17.0	11.4	114816	59998	19.8	20.5	58191	49.2
BLACKNOSE CRAPPIE	921	957.0	0.1	921	155	1841.2	0.1	155	83.2
SAUGER	126	2652.8	0.0	126	0		0.0	0	100.0
FRESHWATER DRUM	5001	201.9	0.5	727	336	525.9	0.1	224	93.3

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=PERCY PRIEST

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	R H PE
ANY CATFISH	48914	11.4	10870	6.2	0.33	54.1	0.24	
WHITE BASS	13845	17.8	3089	1.8	0.56	110.8	0.20	
STRIPED BASS	26829	14.0	5957	3.4	0.07	93.0	0.02	
CHEROKEE BASS	25669	12.8	5667	3.3	0.52	57.5	0.14	
ANY SUNFISH	23340	18.2	5275	3.0	2.31	42.7	1.00	
ANY BLACK BASS	1181	73.9	272	0.2	0.00		0.00	
SMALLMOUTH BASS	2570	45.6	587	0.3	0.35	75.8	0.00	
SPOTTED BASS	622	63.1	140	0.1	1.51	7.8	0.00	
LARGEMOUTH BASS	266450	6.4	59068	34.0	0.63	18.8	0.04	
ANY CRAPPIE	174730	6.4	39100	22.3	1.28	20.2	0.52	
ANY SPECIES	199542	7.0	44475	25.5	1.06	24.8	0.39	
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TOTAL	**783692**		**174500**					

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=PERCY PRIEST

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	BLUE CATFISH	0.00	0.00
	CHANNEL CATFISH	0.31	0.22
	FLATHEAD CATFISH	0.02	0.02
ANY SUNFISH			
	GREEN SUNFISH	0.42	0.24
	WARMOUTH	0.00	0.00
	BLUEGILL	1.72	0.68
	LONGEAR SUNFISH	0.16	0.08
	REDEAR SUNFISH	0.00	0.00
ANY BLACK BASS			
ANY BLACK BASS			
ANY BLACK BASS			
ANY BLACK BASS			
	SMALLMOUTH BASS	0.01	0.00
	SPOTTED BASS	0.02	0.00
	LARGEMOUTH BASS	0.88	0.07
	LARGEMOUTH BASS	0.88	0.07
ANY CRAPPIE			
	ANY CRAPPIE	0.00	0.00
	WHITE CRAPPIE	0.80	0.29
	BLACK CRAPPIE	0.48	0.23
	BLACKNOSE CRAPPIE	0.00	0.00

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOUR
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTI

LAKE=PERCY PRIEST

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVI (NON-TOURN
01 JANUARY	64	0.64	8	0.95	29
02 FEBRUARY	52	0.37	20	0.20	23
03 MARCH	29	0.07	4	0.58	26
04 APRIL	43	0.89	26	0.78	81
05 MAY	20	0.65	14	0.89	114
06 JUNE	39	0.80	32	0.75	68
07 JULY	5	0.35	7	0.46	60
08 AUGUST	17	0.47	14	0.55	110
09 SEPTEMBER	12	0.45	9	0.67	74
10 OCTOBER	0		0	0.45	31
11 NOVEMBER	53	0.51	16	0.27	37
12 DECEMBER	0		0	0.47	16

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2008

LAKE=PERCY PRIEST

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	134740	67110	201860	49
WHITE BASS	42310	21670	63980	16
STRIPED BASS	86640	30160	116790	32
CHEROKEE BASS	124720	63830	188550	17
ANY SUNFISH	53850	34690	88550	23
ANY BLACK BASS	4700	4700	9390	1
SMALLMOUTH BASS	7200	9400	16610	7
LARGEMOUTH BASS	1371980	284950	1656930	146
ANY CRAPPIE	348550	171600	520150	83
ANY SPECIES	469610	136810	606420	64
TOTAL	**2644300**	**824920**	**3469230**	**438**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=PERCY PRIEST

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	851	97.9
OTHERS	18	2.1

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
DAVIDSON	204	24.1
RUTHERFORD	442	52.2
WILLIAMSON	45	5.3
WILSON	79	9.3
OTHERS IN TN	71	8.4
OUT-OF-STATE	5	0.6

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	675	78.8
B) 26-100	158	18.4
C) 101-250	5	0.6
D) > 250	19	2.2

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	442	99.5
B) VACATION	1	0.2
C) BUSINESS	1	0.2

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	433	98.2
B) 2-5	5	1.1
C) 6-10	1	0.2
D) 11-15	1	0.2
E) 16-20	1	0.2

OLD HICKORY RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=OLD HICKORY

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	27655	29.3	1.2	6291	0.3	2.8
02 FEBRUARY	25915	63.2	1.2	5299	0.2	2.7
03 MARCH	44928	23.5	2.0	9753	0.4	4.6
04 APRIL	124094	31.5	5.5	26627	1.2	12.8
05 MAY	165656	15.7	7.4	31046	1.4	17.1
06 JUNE	149338	21.2	6.6	28870	1.3	15.4
07 JULY	158740	15.1	7.1	39351	1.7	16.4
08 AUGUST	97285	9.7	4.3	22252	1.0	10.0
09 SEPTEMBER	75821	6.6	3.4	18472	0.8	7.8
10 OCTOBER	56625	22.3	2.5	12301	0.5	5.8
11 NOVEMBER	20724	43.8	0.9	3858	0.2	2.1
12 DECEMBER	23728	36.7	1.1	4389	0.2	2.4
TOTAL	**970509**			**208509**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=OLD HICKORY

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RS HA
01 JANUARY	41759	37.9	1.51	23.1	12721	40.9	0.46	
02 FEBRUARY	20473	102.2	0.79	68.1	14512	105.4	0.56	
03 MARCH	47624	36.7	1.06	27.5	10333	38.7	0.23	
04 APRIL	265561	32.9	2.14	9.1	57083	33.1	0.46	
05 MAY	417453	17.9	2.52	8.5	44727	26.2	0.27	
06 JUNE	228487	24.2	1.53	11.4	16427	26.3	0.11	
07 JULY	220649	27.0	1.39	22.1	41272	40.1	0.26	
08 AUGUST	122579	21.8	1.26	19.4	16538	28.6	0.17	
09 SEPTEMBER	98567	20.1	1.30	19.0	14406	25.5	0.19	
10 OCTOBER	84371	32.6	1.49	23.3	9060	47.4	0.16	
11 NOVEMBER	23004	55.0	1.11	30.7	7046	46.7	0.34	
12 DECEMBER	27287	41.7	1.15	18.6	10678	48.2	0.45	
TOTAL	**1597814**				**254803**			

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=OLD HICKORY

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED
CARP	983	1086.4	0.1	0	0		0.0	0	100.0
ANY BUFFALO	2613	644.2	0.2	0	207	1213.4	0.1	0	92.1
ANY BULLHEAD	241	1617.5	0.0	241	241	1617.5	0.1	241	0.0
BLUE CATFISH	3073	254.2	0.2	2806	1849	348.0	0.7	1681	39.8
CHANNEL CATFISH	32070	49.9	2.0	23610	23667	46.1	9.3	20106	26.2
FLATHEAD CATFISH	1201	324.2	0.1	764	906	281.8	0.4	566	24.6
RAINBOW TROUT	111	3155.7	0.0	0	0		0.0	0	100.0
BROWN TROUT	111	3155.7	0.0	0	0		0.0	0	100.0
WHITE BASS	87624	34.3	5.5	44200	30713	33.1	12.1	21608	64.9
YELLOW BASS	101769	47.8	6.4	21446	10141	60.8	4.0	3877	90.0
STRIPED BASS	17943	133.4	1.1	14076	8747	84.6	3.4	6517	51.3
CHEROKEE BASS	690	931.1	0.0	99	343	388.0	0.1	0	50.3
GREEN SUNFISH	17179	148.3	1.1	16008	11201	97.3	4.4	10124	34.8
WARMOUTH	11992	204.3	0.8	2692	2377	211.6	0.9	1297	80.2
BLUEGILL	316187	16.4	19.8	210423	47316	23.1	18.6	36061	85.0
LONGEAR SUNFISH	9289	441.8	0.6	9062	3702	157.2	1.5	3702	60.1
REDEAR SUNFISH	12758	404.1	0.8	10935	3170	133.4	1.2	2642	75.2
SMALLMOUTH BASS	12812	209.5	0.8	1363	0		0.0	0	100.0
SPOTTED BASS	16016	166.4	1.0	4368	1490	276.0	0.6	0	90.7
LARGEMOUTH BASS	697614	10.8	43.7	659016	32926	19.2	12.9	31687	95.3
WHITE CRAPPIE	130723	25.9	8.2	111572	49872	27.1	19.6	43949	61.8
BLACK CRAPPIE	22395	108.7	1.4	20423	11031	72.8	4.3	9975	50.7
BLACKNOSE CRAPPIE	1118	438.9	0.1	1118	1118	438.9	0.4	1118	0.0
SAUGER	59955	89.0	3.8	47007	9909	83.4	3.9	7755	83.5
WALLEYE	16626	250.7	1.0	3658	1417	279.4	0.6	354	91.5
FRESHWATER DRUM	23767	94.1	1.5	3436	2342	190.5	0.9	1561	90.1

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=OLD HICKORY

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	R H PE
ANY CATFISH	69273	13.3	15380	7.1	0.37	29.9	0.32	
BROWN TROUT	742	139.6	184	0.1	0.00		0.00	
WHITE BASS	34966	18.6	7396	3.6	1.21	29.0	0.72	
STRIPED BASS	54870	13.9	11887	5.7	0.18	47.9	0.09	
CHEROKEE BASS	1167	83.8	226	0.1	0.00		0.00	
ANY SUNFISH	40453	17.3	8606	4.2	3.91	51.8	0.50	
SMALLMOUTH BASS	2371	79.6	443	0.2	0.00		0.00	
LARGEMOUTH BASS	431904	8.1	92943	44.5	1.16	14.1	0.06	
ANY CRAPPIE	105202	17.4	21781	10.8	1.30	22.2	0.61	
SAUGER	32664	19.9	6925	3.4	0.80	27.9	0.13	
WALLEYE	6304	39.3	1371	0.6	0.42	31.3	0.10	
SAUGEYE	1882	96.2	353	0.2	0.00		0.00	
ANY SPECIES	188461	9.1	40954	19.4	1.18	29.2	0.39	
OTHER	251	140.3	57	0.0	0.00		0.00	
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TOTAL	**970510**		**208506**					

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=OLD HICKORY

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY BULLHEAD	0.00	0.00
	BLUE CATFISH	0.04	0.02
	CHANNEL CATFISH	0.32	0.28
	FLATHEAD CATFISH	0.01	0.01
ANY SUNFISH			
	ANY SUNFISH	0.00	0.00
	GREEN SUNFISH	0.25	0.09
	WARMOUTH	0.04	0.01
	BLUEGILL	3.30	0.33
	LONGEAR SUNFISH	0.14	0.03
	REDEAR SUNFISH	0.17	0.02
ANY BLACK BASS			
ANY BLACK BASS			
	ANY BLACK BASS	0.00	0.00
	SMALLMOUTH BASS	0.00	0.00
	SPOTTED BASS	0.01	0.00
	LARGEMOUTH BASS	1.52	0.07
ANY CRAPPIE			
	WHITE CRAPPIE	1.09	0.49
	BLACK CRAPPIE	0.20	0.11
	BLACKNOSE CRAPPIE	0.01	0.01

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOUR
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTI

LAKE=OLD HICKORY

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVI (NON-TOURN
01 JANUARY	0		0	0.33	3
02 FEBRUARY	90	0.72	12	0.27	5
03 MARCH	0		0	0.67	35
04 APRIL	37	1.40	11	1.62	32
05 MAY	38	1.52	12	1.29	33
06 JUNE	7	0.89	7	1.22	135
07 JULY	1	2.00	1	1.11	61
08 AUGUST	12	1.12	10	1.11	98
09 SEPTEMBER	11	1.06	5	0.85	87
10 OCTOBER	45	0.96	14	0.94	55
11 NOVEMBER	0		0	0.94	3
12 DECEMBER	0		0	0.64	5

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2008

LAKE=OLD HICKORY

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	187110	93330	280440	46
BROWN TROUT	9190	0	9190	1
WHITE BASS	111900	34860	146750	17
STRIPED BASS	323530	176410	499940	26
ANY SUNFISH	115900	44840	160740	22
SMALLMOUTH BASS	880	5290	6170	1
LARGEMOUTH BASS	1945350	645490	2590840	121
ANY CRAPPIE	367510	41230	408740	39
SAUGER	117340	29830	144530	21
WALLEYE	10410	12730	23140	6
ANY SPECIES	233560	274780	508340	28
TOTAL	**3422680**	**1358790**	**4778820**	**328**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=OLD HICKORY

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	570	93.6
OTHERS	39	6.4

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
DAVIDSON	62	10.7
SMITH	30	5.2
SUMNER	119	20.6
WILSON	234	40.6
OTHERS IN TN	125	21.7
OUT-OF-STATE	7	1.2

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	453	74.6
B) 26-100	110	18.1
C) 101-250	10	1.6
D) > 250	34	5.6

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	330	99.7
D) OTHER	1	0.3

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	311	94.2
B) 2-5	8	2.4
C) 6-10	7	2.1
D) 11-15	4	1.2

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REGION III

CENTER HILL
RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=CENTER HILL

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	20730	45.4	1.1	4085	0.2	6.4
02 FEBRUARY	12100	23.7	0.7	2344	0.1	3.8
03 MARCH	73720	46.8	4.0	12947	0.7	22.9
04 APRIL	58222	28.7	3.2	8781	0.5	18.1
05 MAY	30969	28.6	1.7	5427	0.3	9.6
06 JUNE	24530	25.1	1.3	4560	0.3	7.6
07 JULY	22264	25.0	1.2	4800	0.3	6.9
08 AUGUST	10330	20.8	0.6	2219	0.1	3.2
09 SEPTEMBER	18405	10.6	1.0	3458	0.2	5.7
10 OCTOBER	23796	3.4	1.3	4953	0.3	7.4
11 NOVEMBER	22342	20.4	1.2	3726	0.2	6.9
12 DECEMBER	5001	19.3	0.3	1067	0.1	1.6
TOTAL	**322409**			**58367**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=CENTER HILL

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE HAR R
01 JANUARY	5390	73.7	0.26	53.6	2488	72.5	0.12	5
02 FEBRUARY	968	40.6	0.08	31.0	605	33.4	0.05	2
03 MARCH	36123	48.8	0.49	12.6	14007	59.2	0.19	3
04 APRIL	35515	37.5	0.61	23.2	12227	43.7	0.21	3
05 MAY	16723	43.7	0.54	31.8	5574	46.1	0.18	3
06 JUNE	10793	35.4	0.44	24.3	5642	35.2	0.23	2
07 JULY	12023	30.8	0.54	17.7	4675	50.7	0.21	4
08 AUGUST	7748	45.1	0.75	39.3	2479	56.9	0.24	5
09 SEPTEMBER	16196	23.5	0.88	20.8	3865	23.8	0.21	2
10 OCTOBER	22606	16.7	0.95	16.3	9756	21.7	0.41	2
11 NOVEMBER	12735	25.1	0.57	14.3	1787	44.3	0.08	3
12 DECEMBER	3801	37.6	0.76	31.8	1550	45.3	0.31	4
TOTAL	**180621**				**64655**			

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=CENTER HILL

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AV W
CHANNEL CATFISH	2866	80.6	1.6	1131	2162	86.3	3.3	1013	24.6	
FLATHEAD CATFISH	1060	202.3	0.6	1060	1060	202.3	1.6	1060	0.0	
BLUEGILL	17464	42.7	9.7	15292	10313	48.2	16.0	8874	40.9	
REDEAR SUNFISH	361	472.9	0.2	0	0	.	0.0	0	100.0	
SMALLMOUTH BASS	10065	53.8	5.6	9070	1860	96.9	2.9	1581	81.5	
SPOTTED BASS	85874	15.2	47.7	79974	29491	22.4	45.6	26810	65.7	
LARGEMOUTH BASS	18907	38.8	10.5	17787	4929	52.7	7.6	4929	73.9	
WHITE CRAPPIE	2278	186.8	1.3	2115	1399	235.1	2.2	1224	38.6	
BLACK CRAPPIE	340	703.4	0.2	340	340	703.4	0.5	340	0.0	
BLACKNOSE CRAPPIE	23845	37.5	13.2	23434	8389	55.5	13.0	8174	64.8	
WALLEYE	14374	30.1	8.0	14374	4711	65.5	7.3	4711	67.2	

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=CENTER HILL

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	R H PE
ANY CATFISH	6342	35.2	1183	2.0	0.22	39.3	0.22	
ANY SUNFISH	7019	30.4	1348	2.2	1.95	38.6	1.29	
ANY BLACK BASS	160682	14.8	28486	49.8	0.56	18.4	0.19	
SMALLMOUTH BASS	5124	44.8	938	1.6	0.10	58.5	0.00	
SPOTTED BASS	11907	23.8	2299	3.7	0.87	41.7	0.51	
ANY CRAPPIE	40187	21.0	7105	12.5	0.96	30.8	0.40	
WALLEYE	56375	15.2	10545	17.5	0.21	38.8	0.06	
ANY SPECIES	34780	19.4	6465	10.8	0.15	142.4	0.10	
TOTAL	**322416**		**58369**					

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=CENTER HILL

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY CATFISH	0.00	0.00
	CHANNEL CATFISH	0.11	0.11
	FLATHEAD CATFISH	0.11	0.11
ANY SUNFISH			
	BLUEGILL	1.95	1.29
	REDEAR SUNFISH	0.00	0.00
ANY BLACK BASS			
ANY BLACK BASS			
ANY BLACK BASS			
	ANY BLACK BASS	0.00	0.00
	SMALLMOUTH BASS	0.05	0.01
	SPOTTED BASS	0.45	0.15
	LARGEMOUTH BASS	0.10	0.03
ANY CRAPPIE			
	ANY CRAPPIE	0.00	0.00
	WHITE CRAPPIE	0.08	0.05
	BLACK CRAPPIE	0.01	0.01
	BLACKNOSE CRAPPIE	0.87	0.34

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOUR
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTI

LAKE=CENTER HILL

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVI (NON-TOURN
01 JANUARY	18	1.07	2	0.33	21
02 FEBRUARY	34	0.25	9	0.27	30
03 MARCH	47	0.41	15	0.39	38
04 APRIL	48	0.49	15	0.46	36
05 MAY	0		0	0.74	26
06 JUNE	0		0	0.50	26
07 JULY	0		0	0.38	14
08 AUGUST	1	0.00	1	0.67	11
09 SEPTEMBER	0		0	1.17	20
10 OCTOBER	0		0	1.15	14
11 NOVEMBER	71	0.77	7	0.45	12
12 DECEMBER	0		0	0.61	12

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2008

LAKE=CENTER HILL

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	13120	7890	21010	9
ANY SUNFISH	12240	7090	16890	11
ANY BLACK BASS	990180	563410	1553590	274
SMALLMOUTH BASS	27980	31000	54990	9
SPOTTED BASS	54940	36370	89250	26
ANY CRAPPIE	106260	66070	172330	67
WALLEYE	177930	103410	278020	120
ANY SPECIES	63620	49810	112110	46
TOTAL	**1446270**	**865050**	**2298190**	**562**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=CENTER HILL

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

LAKE=CENTER HILL

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	1102	99
OTHERS	11	1

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
DAVIDSON	107	9.7
DEKALB	199	18.0
PUTNAM	207	18.7
RUTHERFORD	60	5.4
SMITH	67	6.1
WARREN	183	16.6
OTHERS IN TN	279	25.2
OUT-OF-STATE	3	0.3

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	740	66.5
B) 26-100	358	32.2
C) 101-250	13	1.2
D) > 250	2	0.2

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	540	93.9
B) VACATION	35	6.1

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	517	89.9
B) 2-5	47	8.2
C) 6-10	9	1.6
D) 11-15	2	0.3

CHICKAMAUGA RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=CHICKAMAUGA

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	29262	28.9	0.8	4840	0.1	5.9
02 FEBRUARY	21280	26.7	0.6	3388	0.1	4.3
03 MARCH	30296	18.5	0.9	4778	0.1	6.1
04 APRIL	56246	16.1	1.6	8929	0.3	11.4
05 MAY	90496	26.9	2.6	14195	0.4	18.3
06 JUNE	39521	10.4	1.1	6259	0.2	8.0
07 JULY	63787	38.9	1.8	10606	0.3	12.9
08 AUGUST	48870	23.2	1.4	7836	0.2	9.9
09 SEPTEMBER	36944	13.1	1.1	6468	0.2	7.5
10 OCTOBER	35797	30.6	1.0	5258	0.2	7.3
11 NOVEMBER	23422	10.4	0.7	3653	0.1	4.7
12 DECEMBER	17587	27.5	0.5	2951	0.1	3.6
TOTAL	**493508**			**79161**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=CHICKAMAUGA

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RS HA
01 JANUARY	93638	31.9	3.20	12.9	17850	35.2	0.61	
02 FEBRUARY	88525	33.1	4.16	18.9	16811	39.4	0.79	
03 MARCH	75740	20.6	2.50	8.9	16663	28.2	0.55	
04 APRIL	193486	18.5	3.44	9.0	49496	22.8	0.88	
05 MAY	287777	32.7	3.18	18.0	85971	35.8	0.95	
06 JUNE	137138	18.4	3.47	15.1	33988	20.7	0.86	
07 JULY	218789	41.1	3.43	12.3	47840	43.6	0.75	
08 AUGUST	144167	25.5	2.95	10.2	28833	29.7	0.59	
09 SEPTEMBER	105290	16.0	2.85	9.0	26230	19.1	0.71	
10 OCTOBER	91998	31.8	2.57	8.1	20404	33.1	0.57	
11 NOVEMBER	73779	16.6	3.15	12.8	13351	18.3	0.57	
12 DECEMBER	49771	34.0	2.83	19.3	9849	46.0	0.56	
TOTAL	**1560098**				**367286**			

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=CHICKAMAUGA

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED
LONGNOSE GAR	92	2593.1	0.0	0	0		0.0	0	100.0
GOLDEN SHINER	1340	1179.6	0.1	1340	0		0.0	0	100.0
BLUE CATFISH	156086	16.0	10.0	143468	63946	18.3	17.4	59917	59.0
CHANNEL CATFISH	67755	29.4	4.3	58726	29669	31.2	8.1	25519	56.2
FLATHEAD CATFISH	11100	121.1	0.7	6580	3267	136.4	0.9	2836	70.6
WHITE BASS	93407	29.6	6.0	48555	31245	33.1	8.5	20010	66.5
YELLOW BASS	142693	18.2	9.1	50141	4539	46.0	1.2	1439	96.8
STRIPED BASS	18489	108.4	1.2	16999	6279	118.6	1.7	5952	66.0
CHEROKEE BASS	64	1737.8	0.0	64	64	1737.8	0.0	64	0.0
WARMOUTH	609	1304.6	0.0	609	283	1351.6	0.1	283	53.5
BLUEGILL	490803	10.4	31.5	253373	139387	15.0	38.0	97984	71.6
REDEAR SUNFISH	32571	72.7	2.1	27143	21272	73.5	5.8	17817	34.7
SMALLMOUTH BASS	17921	79.6	1.1	15937	749	232.1	0.2	613	95.8
SPOTTED BASS	69585	26.2	4.5	62725	701	122.9	0.2	701	99.0
LARGEMOUTH BASS	223018	13.6	14.3	211682	12201	27.5	3.3	11831	94.5
WHITE CRAPPIE	31070	59.0	2.0	29089	9491	60.9	2.6	8946	69.5
BLACK CRAPPIE	114294	25.9	7.3	96524	42135	27.9	11.5	35974	63.1
BLACKNOSE CRAPPIE	48	4033.5	0.0	48	0		0.0	0	100.0
SAUGER	22784	65.2	1.5	22046	1609	154.9	0.4	1526	92.9
FRESHWATER DRUM	65696	27.6	4.2	8727	0		0.0	0	100.0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=CHICKAMAUGA

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RS HA PER
ANY CATFISH	100324	10.6	16131	20.3	1.48	15.1	0.63	2
WHITE BASS	2979	38.0	472	0.6	5.28	27.9	3.01	3
STRIPED BASS	19536	17.9	3134	4.0	0.58	44.0	0.21	6
ANY SUNFISH	963	58.1	159	0.2	12.01		5.21	
ANY BLACK BASS	200330	9.2	32077	40.6	1.18	21.5	0.06	4
ANY CRAPPIE	40793	11.9	6521	8.3	2.09	21.7	0.84	2
SAUGER	8829	23.5	1428	1.8	2.73	19.9	0.22	3
ANY SPECIES	119750	10.9	19236	24.3	4.78	17.9	1.64	2
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TOTAL	**493504**		**79158**					

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=CHICKAMAUGA

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	1.02	0.43
	CHANNEL CATFISH	0.42	0.18
	FLATHEAD CATFISH	0.05	0.02
ANY SUNFISH			
	WARMOUTH	0.03	0.01
	BLUEGILL	10.82	4.40
	REDEAR SUNFISH	1.16	0.80
ANY BLACK BASS			
	SMALLMOUTH BASS	0.08	0.00
	SPOTTED BASS	0.31	0.00
	LARGEMOUTH BASS	1.06	0.06
ANY CRAPPIE			
	WHITE CRAPPIE	0.48	0.17
	BLACK CRAPPIE	1.61	0.67
	BLACKNOSE CRAPPIE	0.00	0.00

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOUR
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTI

LAKE=CHICKAMAUGA

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVI (NON-TOURN
01 JANUARY	0		0	1.06	25
02 FEBRUARY	14	1.93	3	2.76	34
03 MARCH	22	1.47	6	1.09	39
04 APRIL	0		0	1.20	82
05 MAY	3	0.71	1	0.92	55
06 JUNE	0		0	1.04	53
07 JULY	4	1.56	2	1.36	49
08 AUGUST	0		0	1.16	72
09 SEPTEMBER	7	1.16	3	1.11	54
10 OCTOBER	17	1.02	6	0.82	61
11 NOVEMBER	0		0	1.05	50
12 DECEMBER	19	1.52	5	1.11	24

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2008

LAKE=CHICKAMAUGA

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	362570	368270	730840	248
WHITE BASS	17100	12250	29350	8
STRIPED BASS	111520	102990	214510	49
ANY SUNFISH	850	1060	1920	2
ANY BLACK BASS	810110	863360	1673470	564
ANY CRAPPIE	145310	144300	289610	120
SAUGER	27960	15890	43850	28
ANY SPECIES	323970	344010	667980	265
TOTAL	**1799390**	**1852130**	**3651530**	**1284**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=CHICKAMAUGA

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	2556	94.9
OTHERS	138	5.1

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BRADLEY	351	13.7
HAMILTON	934	36.5
McMINN	221	8.6
MEIGS	185	7.2
RHEA	309	12.1
SEQUATCHIE	137	5.3
OTHERS IN TN	417	16.3
OUT-OF-STATE	8	0.3

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	1924	71.7
B) 26-100	732	27.3
C) 101-250	20	0.7
D) > 250	9	0.3

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	1369	99.9
B) VACATION	1	0.1

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	1362	99.3
B) 2-5	7	0.5
C) 6-10	1	0.1
F) >20	1	0.1

WATTS BAR RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=WATTS BAR

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	15326	47.8	0.4	2614	0.1	3.0
02 FEBRUARY	18148	35.6	0.5	3212	0.1	3.5
03 MARCH	54598	30.2	1.4	8912	0.2	10.6
04 APRIL	76992	35.1	2.0	12130	0.3	15.0
05 MAY	76753	36.8	2.0	11858	0.3	14.9
06 JUNE	95862	44.9	2.5	15551	0.4	18.6
07 JULY	57986	39.8	1.5	9465	0.2	11.3
08 AUGUST	33256	23.5	0.9	5387	0.1	6.5
09 SEPTEMBER	30187	21.9	0.8	5129	0.1	5.9
10 OCTOBER	25452	19.2	0.7	3597	0.1	4.9
11 NOVEMBER	16650	17.4	0.4	2625	0.1	3.2
12 DECEMBER	13566	51.8	0.3	2064	0.1	2.6
TOTAL	**514776**			**82544**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=WATTS BAR

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RS HA
01 JANUARY	41074	52.4	2.68	19.4	9196	68.5	0.60	
02 FEBRUARY	46640	39.7	2.57	16.6	10344	58.9	0.57	
03 MARCH	165978	39.9	3.04	24.9	30029	35.8	0.55	
04 APRIL	204029	40.2	2.65	18.4	58514	52.0	0.76	
05 MAY	207233	42.8	2.70	20.5	47587	50.8	0.62	
06 JUNE	247324	46.9	2.58	12.3	58476	48.4	0.61	
07 JULY	163521	44.3	2.82	18.1	42330	54.9	0.73	
08 AUGUST	79814	38.4	2.40	29.6	12970	47.2	0.39	
09 SEPTEMBER	62487	32.9	2.07	24.0	4830	51.2	0.16	
10 OCTOBER	37414	23.2	1.47	12.6	8399	49.2	0.33	
11 NOVEMBER	39294	30.5	2.36	24.7	11489	57.6	0.69	
12 DECEMBER	31337	65.8	2.31	36.0	5291	81.0	0.39	
TOTAL	**1326145**				**299455**			

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=WATTS BAR

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED
SKIPJACK HERRING	967	1547.7	0.1	967	0		0.0	0	100.0
BLUE CATFISH	76800	33.7	5.8	69766	32294	38.8	10.8	31517	58.0
CHANNEL CATFISH	51811	46.9	3.9	48130	26929	49.4	9.0	25741	48.0
FLATHEAD CATFISH	8814	194.1	0.7	5244	1546	297.2	0.5	1340	82.5
WHITE BASS	323471	18.9	24.4	207567	114752	24.2	38.3	79774	64.5
YELLOW BASS	70918	41.8	5.3	30739	454	276.6	0.2	454	99.4
STRIPED BASS	25938	81.3	2.0	18675	5418	136.2	1.8	4842	79.1
CHEROKEE BASS	187	1715.1	0.0	187	187	1715.1	0.1	187	0.0
BLUEGILL	189472	24.9	14.3	121278	27051	42.4	9.0	17535	85.7
REDEAR SUNFISH	446	1081.8	0.0	446	289	1016.5	0.1	289	35.2
SMALLMOUTH BASS	36797	53.8	2.8	32468	1789	145.1	0.6	1789	95.1
SPOTTED BASS	58155	39.6	4.4	51420	1132	179.6	0.4	1132	98.1
LARGEMOUTH BASS	253243	18.2	19.1	231168	14954	34.7	5.0	13784	94.1
WHITE CRAPPIE	85065	50.6	6.4	79664	34802	47.9	11.6	32543	59.1
BLACK CRAPPIE	79619	37.2	6.0	71547	31594	43.8	10.6	29088	60.3
BLACKNOSE CRAPPIE	1380	453.4	0.1	1380	1269	454.2	0.4	1269	8.0
YELLOW PERCH	187	1715.1	0.0	0	187	1715.1	0.1	0	0.0
SAUGER	36319	50.8	2.7	31240	4577	78.8	1.5	3410	87.4
FRESHWATER DRUM	27141	75.7	2.0	6207	0		0.0	0	100.0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=WATTS BAR

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	R H PE
ANY CATFISH	58667	16.4	9430	11.4	1.32	30.8	0.65	
WHITE BASS	18988	24.4	3044	3.7	5.12	31.5	1.90	
STRIPED BASS	20108	21.9	3257	3.9	0.38	46.3	0.11	
ANY BLACK BASS	245760	14.5	39275	47.7	0.92	11.9	0.06	
SMALLMOUTH BASS	361	103.3	51	0.1	0.00		0.00	
LARGEMOUTH BASS	251	158.5	38	0.0	1.75		0.00	
ANY CRAPPIE	44716	19.7	7064	8.7	2.44	19.8	1.05	
SAUGER	9236	30.6	1539	1.8	1.95	26.0	0.24	
ANY SPECIES	116692	16.4	18846	22.7	3.26	22.6	1.01	
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TOTAL	**514779**		**82544**					

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=WATTS BAR

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.75	0.35
	CHANNEL CATFISH	0.52	0.29
	FLATHEAD CATFISH	0.06	0.01
ANY BLACK BASS			
ANY BLACK BASS			
ANY BLACK BASS			
	ANY BLACK BASS	0.00	0.00
	SMALLMOUTH BASS	0.13	0.01
	SPOTTED BASS	0.21	0.00
	LARGEMOUTH BASS	0.94	0.06
ANY CRAPPIE			
	WHITE CRAPPIE	1.27	0.54
	BLACK CRAPPIE	1.14	0.49
	BLACKNOSE CRAPPIE	0.02	0.02

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOUR
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTI

LAKE=WATTS BAR

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVI (NON-TOURN
01 JANUARY	0		0	1.16	14
02 FEBRUARY	0		0	0.76	16
03 MARCH	0		0	0.90	38
04 APRIL	0		0	0.94	50
05 MAY	7	1.35	3	0.84	70
06 JUNE	27	1.06	7	0.99	42
07 JULY	33	0.90	6	1.05	28
08 AUGUST	0		0	0.66	40
09 SEPTEMBER	13	0.57	2	1.08	27
10 OCTOBER	4	1.08	1	0.75	38
11 NOVEMBER	0		0	0.57	23
12 DECEMBER	0		0	1.42	9

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2008

LAKE=WATTS BAR

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	217910	187700	405610	84
WHITE BASS	79600	79240	158840	29
STRIPED BASS	140250	137020	277270	35
ANY BLACK BASS	1043930	1044650	2088570	380
SMALLMOUTH BASS	1450	640	2090	1
LARGEMOUTH BASS	1410	960	2370	1
ANY CRAPPIE	182250	144040	326290	78
SAUGER	39340	36200	75540	17
ANY SPECIES	323150	338400	661550	154
TOTAL	**2029290**	**1968850**	**3998130**	**779**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=WATTS BAR

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	1573	95.2
OTHERS	79	4.8

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
CUMBERLAND	91	5.8
HAMILTON	161	10.2
KNOX	192	12.2
LOUDON	162	10.3
McMINN	130	8.3
MEIGS	84	5.3
RHEA	136	8.7
ROANE	361	23.0
OTHERS IN TN	254	16.2

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	1037	63.4
B) 26-100	527	32.2
C) 101-250	15	0.9
D) > 250	57	3.5

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	821	99.9
B) VACATION	1	0.1

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	796	96.8
B) 2-5	23	2.8
C) 6-10	3	0.4

DALE HOLLOW RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=DALE HOLLOW

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	20926	22.8	0.9	3444	0.1	6.2
02 FEBRUARY	22957	29.9	1.0	3488	0.2	6.8
03 MARCH	29609	26.2	1.3	3937	0.2	8.8
04 APRIL	69564	19.3	3.0	9770	0.4	20.7
05 MAY	61584	22.2	2.7	9019	0.4	18.4
06 JUNE	20002	26.9	0.9	3618	0.2	6.0
07 JULY	15842	24.3	0.7	3439	0.1	4.7
08 AUGUST	16081	18.6	0.7	3169	0.1	4.8
09 SEPTEMBER	19169	12.7	0.8	3216	0.1	5.7
10 OCTOBER	31688	15.3	1.4	5248	0.2	9.4
11 NOVEMBER	22482	26.2	1.0	3405	0.1	6.7
12 DECEMBER	5503	28.1	0.2	997	0.0	1.6
TOTAL	**335407**			**52750**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=DALE HOLLOW

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE HAR R
01 JANUARY	8580	29.6	0.41	18.6	1046	50.5	0.05	4
02 FEBRUARY	6198	36.0	0.27	19.0	689	65.9	0.03	4
03 MARCH	9475	33.1	0.32	19.3	1480	65.9	0.05	5
04 APRIL	36869	29.9	0.53	22.5	18782	35.9	0.27	3
05 MAY	49267	29.3	0.80	18.7	20323	32.4	0.33	2
06 JUNE	14201	36.5	0.71	23.9	6201	42.1	0.31	3
07 JULY	5545	43.3	0.35	35.1	1584	48.1	0.10	4
08 AUGUST	8362	40.4	0.52	35.2	3538	57.9	0.22	5
09 SEPTEMBER	10543	23.4	0.55	19.4	5176	34.5	0.27	3
10 OCTOBER	16795	24.0	0.53	18.2	6654	31.1	0.21	2
11 NOVEMBER	10791	33.4	0.48	20.2	2923	32.4	0.13	1
12 DECEMBER	2311	65.1	0.42	56.5	55	107.4	0.01	10
TOTAL	**178937**				**68451**			

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=DALE HOLLOW

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED
ALEWIFE	623	317.8	0.3	0	249	345.9	0.4	0	60.0
CHANNEL CATFISH	6576	67.8	3.7	5556	6404	68.5	9.4	5554	2.6
FLATHEAD CATFISH	391	478.3	0.2	107	391	478.3	0.6	107	0.0
MUSKELLUNGE	78	840.8	0.0	78	34	611.2	0.0	34	56.4
RAINBOW TROUT	568	572.3	0.3	413	506	630.8	0.7	450	10.9
WHITE BASS	961	378.7	0.5	0	247	534.2	0.4	0	74.3
BLUEGILL	41028	19.3	22.9	37429	24600	24.9	35.9	22105	40.0
REDEAR SUNFISH	13090	44.4	7.3	12440	10541	47.8	15.4	9910	19.5
COOSA BASS	73	1059.8	0.0	0	0		0.0	0	100.0
SMALLMOUTH BASS	66464	13.2	37.1	58706	3944	28.9	5.8	3644	94.1
SPOTTED BASS	5531	56.5	3.1	4005	2976	74.6	4.3	2267	46.2
LARGEMOUTH BASS	11695	33.3	6.5	9356	2681	56.4	3.9	2276	77.1
BLACK CRAPPIE	7529	82.2	4.2	7320	3257	73.0	4.8	3060	56.7
BLACKNOSE CRAPPIE	9871	40.4	5.5	9614	4448	54.7	6.5	4243	54.9
WALLEYE	12089	34.4	6.8	11254	8177	47.0	11.9	7570	32.4
FRESHWATER DRUM	310	558.0	0.2	0	0		0.0	0	100.0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=DALE HOLLOW

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	R H PE
ANY CATFISH	4306	31.3	648	1.3	0.59	54.1	0.59	
MUSKELLUNGE	887	61.5	134	0.3	0.12		0.08	
RAINBOW TROUT	163	148.2	23	0.0	7.00		7.00	
ANY TROUT	2129	35.7	418	0.6	0.02	176.1	0.02	
ANY SUNFISH	21051	16.4	3354	6.3	2.94	23.4	1.97	
ANY BLACK BASS	69658	9.8	10773	20.8	0.33	22.2	0.10	
SMALLMOUTH BASS	144566	9.1	21843	43.1	0.33	17.6	0.02	
LARGEMOUTH BASS	2736	37.5	396	0.8	0.35	60.5	0.06	
ANY CRAPPIE	32267	12.3	4970	9.6	0.89	36.9	0.33	
WALLEYE	34411	13.0	6209	10.3	0.32	28.3	0.23	
ANY SPECIES	23231	13.3	3978	6.9	0.10	85.7	0.05	
TOTAL	**335405**		**52746**					

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=DALE HOLLOW

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	CHANNEL CATFISH	0.58	0.58
	FLATHEAD CATFISH	0.01	0.01
ANY TROUT			
	RAINBOW TROUT	0.02	0.02
	ANY TROUT	0.00	0.00
ANY SUNFISH			
	BLUEGILL	2.21	1.36
	REDEAR SUNFISH	0.73	0.61
ANY BLACK BASS			
ANY BLACK BASS			
ANY BLACK BASS			
	COOSA BASS	0.00	0.00
	SMALLMOUTH BASS	0.27	0.02
	SPOTTED BASS	0.02	0.01
	LARGEMOUTH BASS	0.04	0.01
ANY CRAPPIE			
	ANY CRAPPIE	0.00	0.00
	BLACK CRAPPIE	0.38	0.14
	BLACKNOSE CRAPPIE	0.51	0.19

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOUR
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTI

LAKE=DALE HOLLOW

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVI (NON-TOURN
01 JANUARY	0		0	0.52	47
02 FEBRUARY	4	0.09	3	0.28	90
03 MARCH	0	0.00	1	0.32	94
04 APRIL	7	0.31	13	0.28	132
05 MAY	9	0.61	11	0.42	83
06 JUNE	2	0.45	3	0.42	22
07 JULY	0		0	0.22	11
08 AUGUST	0		0	0.20	29
09 SEPTEMBER	15	0.13	5	0.24	47
10 OCTOBER	43	0.31	18	0.25	53
11 NOVEMBER	6	0.73	3	0.23	51
12 DECEMBER	0		0	0.31	13

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2008

LAKE=DALE HOLLOW

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	14280	8500	22780	14
MUSKELLUNGE	8630	3490	12120	4
RAINBOW TROUT	110			1
ANY TROUT	19090	6150	25240	7
ANY SUNFISH	64550	38370	102920	65
ANY BLACK BASS	478010	273000	751010	259
SMALLMOUTH BASS	966990	524680	1491670	463
LARGEMOUTH BASS	13880	10520	24400	10
ANY CRAPPIE	109480	73720	183200	107
WALLEYE	126970	81970	208930	141
ANY SPECIES	79370	52380	131760	66
TOTAL	**1881360**	**1072780**	**2954030**	**1137**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=DALE HOLLOW

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
IN	212	8.6
KY	588	23.8
OH	406	16.4
TN	1095	44.3
OTHERS	171	6.9

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
CLAY	237	21.7
DAVIDSON	81	7.4
OVERTON	193	17.7
PICKETT	167	15.3
PUTNAM	92	8.4
OTHERS IN TN	322	29.5

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	728	29.4
B) 26-100	396	16.0
C) 101-250	502	20.3
D) > 250	846	34.2

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	1064	89.2
B) VACATION	128	10.7
D) OTHER	1	0.1

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	608	51.0
B) 2-5	322	27.0
C) 6-10	244	20.5
D) 11-15	14	1.2
E) 16-20	2	0.2
F) >20	3	0.3

TWRA

REGION IV

NORRIS
RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=NORRIS

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	21881	26.0	0.6	4512	0.1	6.3
02 FEBRUARY	16745	34.9	0.5	2579	0.1	4.8
03 MARCH	59152	61.7	1.7	9231	0.3	17.1
04 APRIL	20461	33.1	0.6	4926	0.1	5.9
05 MAY	32701	17.1	1.0	6579	0.2	9.4
06 JUNE	43067	11.8	1.3	8512	0.2	12.4
07 JULY	45631	17.6	1.3	9509	0.3	13.2
08 AUGUST	36211	21.8	1.1	7200	0.2	10.5
09 SEPTEMBER	17263	22.1	0.5	3611	0.1	5.0
10 OCTOBER	28462	20.0	0.8	5399	0.2	8.2
11 NOVEMBER	18539	27.6	0.5	3273	0.1	5.4
12 DECEMBER	6217	41.0	0.2	1216	0.0	1.8
TOTAL	**346330**			**66547**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=NORRIS

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE HAR R
01 JANUARY	13347	34.0	0.61	21.3	656	65.9	0.03	5
02 FEBRUARY	7368	50.6	0.44	34.7	1842	50.8	0.11	3
03 MARCH	122445	89.8	2.07	55.6	5915	91.7	0.10	5
04 APRIL	17801	45.7	0.87	29.9	6138	74.1	0.30	6
05 MAY	27796	56.6	0.85	52.9	8502	84.8	0.26	8
06 JUNE	54695	25.8	1.27	22.8	21103	30.9	0.49	2
07 JULY	26010	25.9	0.57	18.9	5476	35.6	0.12	3
08 AUGUST	17743	41.8	0.49	35.2	6156	89.6	0.17	8
09 SEPTEMBER	14674	46.8	0.85	40.2	1726	80.4	0.10	7
10 OCTOBER	19639	26.9	0.69	17.7	5123	54.3	0.18	4
11 NOVEMBER	25955	58.4	1.40	49.8	2966	58.6	0.16	4
12 DECEMBER	3606	75.2	0.58	58.2	684	117.8	0.11	10
TOTAL	**351079**				**66287**			

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=NORRIS

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED
CARP	126	1314.4	0.0	126	0		0.0	0	100.0
CHANNEL CATFISH	6981	201.1	2.0	551	2445	139.8	3.7	0	65.0
FLATHEAD CATFISH	989	338.8	0.3	330	445	299.8	0.7	148	55.0
WHITE BASS	382	464.6	0.1	0	256	520.9	0.4	0	33.0
STRIPED BASS	13367	109.7	3.8	12019	3249	102.1	4.9	3249	75.7
ROCK BASS	1428	248.0	0.4	0	0		0.0	0	100.0
GREEN SUNFISH	119	1387.6	0.0	119	119	1387.6	0.2	119	0.0
WARMOUTH	116	1770.6	0.0	0	0		0.0	0	100.0
BLUEGILL	76123	24.8	21.7	63106	29077	28.6	43.9	28515	61.8
REDEAR SUNFISH	3724	144.1	1.1	2578	3260	154.7	4.9	2223	12.5
COOSA BASS	177	906.3	0.1	177	0		0.0	0	100.0
SMALLMOUTH BASS	102625	56.9	29.2	89446	3360	71.5	5.1	2520	96.7
SPOTTED BASS	41221	55.9	11.7	28239	3856	63.7	5.8	2057	90.6
LARGEMOUTH BASS	48963	57.4	14.0	39858	1411	100.7	2.1	627	97.1
WHITE CRAPPIE	16060	129.1	4.6	12905	2873	142.9	4.3	1975	82.1
BLACK CRAPPIE	28319	92.1	8.1	25674	10905	63.8	16.4	9489	61.5
BLACKNOSE CRAPPIE	2271	778.4	0.6	2065	770	274.0	1.2	674	66.1
SAUGER	854	114.4	0.2	0	150	162.2	0.2	0	82.4
WALLEYE	5050	100.7	1.4	4777	4116	102.4	6.2	3974	18.5
FRESHWATER DRUM	1995	897.4	0.6	0	0		0.0	0	100.0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=NORRIS

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	R H PE
ANY CATFISH	345	141.6	68	0.1	0.00		0.00	
STRIPED BASS	33232	18.0	6659	9.6	0.26	75.9	0.04	
ANY SUNFISH	25006	17.5	4997	7.2	2.24	24.1	1.17	
ANY BLACK BASS	124831	18.1	23313	36.0	0.42	23.0	0.01	
SMALLMOUTH BASS	32140	27.0	6052	9.3	0.72	42.2	0.02	
SPOTTED BASS	2687	89.2	456	0.8	0.38		0.28	
LARGEMOUTH BASS	2244	60.0	438	0.6	0.10	172.8	0.00	
ANY CRAPPIE	23948	34.2	4293	6.9	0.92	45.1	0.36	
WALLEYE	40665	15.5	8049	11.7	0.08	59.8	0.07	
ANY SPECIES	61229	12.7	12221	17.7	0.62	53.2	0.09	
TOTAL	**346327**		**66546**					

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=NORRIS

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	CHANNEL CATFISH	0.00	0.00
	FLATHEAD CATFISH	0.00	0.00
ANY SUNFISH			
	GREEN SUNFISH	0.00	0.00
	WARMOUTH	0.00	0.00
	BLUEGILL	2.15	1.08
	REDEAR SUNFISH	0.09	0.08
ANY BLACK BASS			
ANY BLACK BASS			
ANY BLACK BASS			
ANY BLACK BASS			
	COOSA BASS	0.00	0.00
	SMALLMOUTH BASS	0.55	0.02
	SPOTTED BASS	0.17	0.01
	LARGEMOUTH BASS	0.25	0.00
ANY CRAPPIE			
	WHITE CRAPPIE	0.29	0.06
	BLACK CRAPPIE	0.58	0.28
	BLACKNOSE CRAPPIE	0.05	0.02

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOUR
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTI

LAKE=NORRIS

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVI (NON-TOURN
01 JANUARY	32	0.53	9	0.47	35
02 FEBRUARY	52	0.27	9	0.21	14
03 MARCH	16	0.82	5	0.39	20
04 APRIL	0		0	0.90	13
05 MAY	13	1.63	5	0.82	7
06 JUNE	5	0.00	3	0.29	14
07 JULY	10	0.13	4	0.54	17
08 AUGUST	0		0	0.23	12
09 SEPTEMBER	0		0	0.75	10
10 OCTOBER	53	0.52	8	0.38	21
11 NOVEMBER	37	0.49	8	0.44	24
12 DECEMBER	56	0.33	2	0.16	4

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2008

LAKE=NORRIS

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
STRIPED BASS	293220	162590	445680	19
ANY SUNFISH	70350	38670	104680	20
ANY BLACK BASS	997680	528450	1526130	109
SMALLMOUTH BASS	183790	137280	321070	20
SPOTTED BASS	1340	4480	5830	1
LARGEMOUTH BASS	4090	1020	5110	1
ANY CRAPPIE	69870	112120	177860	15
WALLEYE	200580	174400	374980	30
ANY SPECIES	198640	286100	484740	40
TOTAL	**2019560**	**1445110**	**3446080**	**255**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=NORRIS

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
KY	92	10.1
TN	762	84.0
OTHERS	53	5.8

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
ANDERSON	173	22.8
CAMPBELL	97	12.8
CLAIBORNE	227	29.9
KNOX	107	14.1
UNION	82	10.8
OTHERS IN TN	72	9.5
OUT-OF-STATE	2	0.3

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	663	73.3
B) 26-100	179	19.8
C) 101-250	19	2.1
D) > 250	44	4.9

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	495	99.2
B) VACATION	3	0.6
D) OTHER	1	0.2

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	450	90.4
B) 2-5	35	7.0
C) 6-10	11	2.2
D) 11-15	1	0.2
F) >20	1	0.2

CHEROKEE RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=CHEROKEE

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	10044	35.2	0.3	2127	0.1	2.5
02 FEBRUARY	20589	42.7	0.7	3972	0.1	5.1
03 MARCH	22252	13.6	0.7	4379	0.1	5.5
04 APRIL	69959	28.4	2.3	13079	0.4	17.2
05 MAY	45132	14.3	1.5	7667	0.3	11.1
06 JUNE	46968	15.1	1.6	9561	0.3	11.5
07 JULY	68540	25.9	2.3	13276	0.4	16.8
08 AUGUST	49408	39.9	1.6	10640	0.4	12.1
09 SEPTEMBER	20138	12.5	0.7	3890	0.1	4.9
10 OCTOBER	29841	18.3	1.0	5091	0.2	7.3
11 NOVEMBER	17864	25.9	0.6	3290	0.1	4.4
12 DECEMBER	6940	24.4	0.2	1492	0.0	1.7
TOTAL	**407675**			**78464**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=CHEROKEE

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE HAR R
01 JANUARY	8035	41.7	0.80	21.1	1908	65.7	0.19	5
02 FEBRUARY	12353	48.9	0.60	21.8	2265	55.0	0.11	3
03 MARCH	18692	20.8	0.84	15.5	3560	43.6	0.16	4
04 APRIL	58766	32.1	0.84	14.4	16790	40.2	0.24	2
05 MAY	40167	19.1	0.89	12.6	9478	25.4	0.21	2
06 JUNE	41332	18.2	0.88	9.9	10333	23.8	0.22	1
07 JULY	55517	27.6	0.81	9.2	12337	33.9	0.18	2
08 AUGUST	34092	41.6	0.69	10.8	7411	48.8	0.15	2
09 SEPTEMBER	20742	15.9	1.03	9.8	5639	28.0	0.28	2
10 OCTOBER	33422	21.4	1.12	10.9	8057	28.5	0.27	2
11 NOVEMBER	17507	28.5	0.98	11.6	2501	37.9	0.14	2
12 DECEMBER	7079	32.4	1.02	20.6	1249	56.0	0.18	4
TOTAL	**347704**				**81528**			

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=CHEROKEE

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED
LONGNOSE GAR	66	2630.2	0.0	0	0		0.0	0	100.0
CARP	158	1422.9	0.0	0	0		0.0	0	100.0
BLACK BULLHEAD	215	714.1	0.1	215	215	714.1	0.3	215	0.0
BLUE CATFISH	477	638.5	0.1	0	94	541.9	0.1	0	80.3
CHANNEL CATFISH	29558	21.3	8.5	23807	16514	22.2	20.3	13695	44.1
FLATHEAD CATFISH	1739	155.2	0.5	1739	1424	161.1	1.7	1424	18.1
WHITE BASS	5383	92.9	1.5	266	999	141.2	1.2	250	81.4
STRIPED BASS	9936	46.2	2.9	3159	2384	54.6	2.9	1265	76.0
CHEROKEE BASS	41298	17.2	11.9	28619	12236	21.4	15.0	9574	70.4
BLUEGILL	27242	30.1	7.8	5271	12837	30.7	15.7	1834	52.9
SMALLMOUTH BASS	15594	38.1	4.5	276	192	203.2	0.2	0	98.8
SPOTTED BASS	9873	53.7	2.8	0	790	101.7	1.0	0	92.0
LARGEMOUTH BASS	132930	9.5	38.2	124971	2267	29.4	2.8	1873	98.3
WHITE CRAPPIE	2892	161.7	0.8	2682	1443	152.1	1.8	1443	50.1
BLACK CRAPPIE	62064	15.5	17.8	60057	27601	18.6	33.9	27107	55.5
BLACKNOSE CRAPPIE	1187	200.7	0.3	1187	1021	208.4	1.3	1021	14.0
SAUGER	164	1549.5	0.0	0	0		0.0	0	100.0
WALLEYE	2549	165.0	0.7	623	279	207.1	0.3	140	89.1
FRESHWATER DRUM	4365	118.2	1.3	739	1237	137.1	1.5	471	71.7

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=CHEROKEE

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	R H PE
ANY CATFISH	39978	16.3	8008	9.8	0.64	22.9	0.41	
WHITE BASS	895	73.1	168	0.2	0.47		0.47	
STRIPED BASS	23301	15.3	4427	5.7	0.11	41.9	0.05	
CHEROKEE BASS	44202	14.1	8513	10.8	0.61	15.2	0.21	
ANY SUNFISH	4361	38.1	857	1.1	1.86	16.1	0.75	
ANY BLACK BASS	702	89.0	136	0.2	0.63		0.42	
SMALLMOUTH BASS	610	57.6	118	0.1	0.29		0.00	
LARGEMOUTH BASS	188140	9.4	36086	46.1	0.62	7.4	0.01	
ANY CRAPPIE	83486	11.8	15851	20.5	1.17	13.6	0.52	
WALLEYE	3390	38.4	686	0.8	0.27	58.7	0.07	
ANY SPECIES	18608	17.6	3611	4.6	0.55	36.0	0.25	
TOTAL	**407673**		**78461**					

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=CHEROKEE

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	BLACK BULLHEAD	0.01	0.01
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.00	0.00
	CHANNEL CATFISH	0.59	0.37
	FLATHEAD CATFISH	0.04	0.04
ANY SUNFISH			
	BLUEGILL	1.86	0.75
ANY BLACK BASS			
ANY BLACK BASS			
ANY BLACK BASS			
	ANY BLACK BASS	0.00	0.00
	SMALLMOUTH BASS	0.00	0.00
	SPOTTED BASS	0.00	0.00
	LARGEMOUTH BASS	0.66	0.01
ANY CRAPPIE			
	ANY CRAPPIE	0.00	0.00
	WHITE CRAPPIE	0.05	0.03
	BLACK CRAPPIE	1.10	0.48
	BLACKNOSE CRAPPIE	0.02	0.02

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOUR
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTI

LAKE=CHEROKEE

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVI (NON-TOURN
01 JANUARY	10	1.93	2	0.67	30
02 FEBRUARY	1	0.83	1	0.50	41
03 MARCH	44	0.71	21	0.58	49
04 APRIL	34	0.41	17	0.51	61
05 MAY	27	0.63	11	0.65	68
06 JUNE	13	0.83	5	0.71	44
07 JULY	2	0.79	3	0.60	72
08 AUGUST	21	0.59	11	0.48	49
09 SEPTEMBER	8	0.97	4	0.72	60
10 OCTOBER	14	0.83	10	0.67	67
11 NOVEMBER	19	0.76	6	0.87	44
12 DECEMBER	0		0	0.61	22

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2008

LAKE=CHEROKEE

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	24060	52420	76480	81
WHITE BASS	1060	970	2030	2
STRIPED BASS	73040	72600	145640	66
CHEROKEE BASS	114290	132230	246510	115
ANY SUNFISH	3170	3850	7030	7
ANY BLACK BASS	0	1810	1810	1
SMALLMOUTH BASS	1920	1960	3870	4
LARGEMOUTH BASS	707520	792150	1499660	659
ANY CRAPPIE	35160	157850	193010	279
WALLEYE	0	7600	7600	7
ANY SPECIES	12250	20460	32320	30
TOTAL	**972470**	**1243900**	**2215960**	**1251**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=CHEROKEE

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
KY	343	13.1
TN	1966	75.3
VA	198	7.6
OTHERS	104	4.0

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
GRAINGER	343	17.5
HAMBLEN	508	26.0
HAWKINS	484	24.7
SULLIVAN	210	10.7
OTHERS IN TN	412	21.1

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	1501	57.6
B) 26-100	1011	38.8
C) 101-250	90	3.5
D) > 250	6	0.2

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	1310	98.5
B) VACATION	20	1.5

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	1252	94.1
B) 2-5	77	5.8
C) 6-10	1	0.1

MELTON HILL RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=MELTON HILL

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	2716	21.0	0.5	624	0.1	3.1
02 FEBRUARY	2430	63.1	0.4	448	0.1	2.8
03 MARCH	7622	5.8	1.3	1606	0.3	8.7
04 APRIL	16472	15.5	2.9	3940	0.7	18.7
05 MAY	12520	9.5	2.2	3345	0.6	14.2
06 JUNE	12682	10.9	2.2	3357	0.6	14.4
07 JULY	9782	6.5	1.7	2448	0.4	11.1
08 AUGUST	9034	18.3	1.6	2500	0.4	10.3
09 SEPTEMBER	5546	22.0	1.0	1601	0.3	6.3
10 OCTOBER	5545	17.8	1.0	1556	0.3	6.3
11 NOVEMBER	1821	39.3	0.3	528	0.1	2.1
12 DECEMBER	1744	32.5	0.3	506	0.1	2.0
TOTAL	**87914**			**22459**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=MELTON HILL

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE HAR R
01 JANUARY	2173	33.0	0.80	24.9	109	73.3	0.04	7
02 FEBRUARY	1288	64.1	0.53	9.4	510	63.2	0.21	
03 MARCH	6631	31.1	0.87	30.6	1143	63.8	0.15	6
04 APRIL	17131	22.6	1.04	16.3	2306	28.3	0.14	2
05 MAY	7762	21.7	0.62	19.4	125	73.1	0.01	7
06 JUNE	12682	19.0	1.00	15.5	1395	52.4	0.11	5
07 JULY	7043	23.2	0.72	22.3	196	64.3	0.02	6
08 AUGUST	4698	36.6	0.52	31.3	452	60.4	0.05	5
09 SEPTEMBER	2496	36.0	0.45	28.1	55	87.4	0.01	7
10 OCTOBER	1386	37.0	0.25	31.6	0		0.00	10
11 NOVEMBER	2404	97.9	1.32	83.4	601	115.4	0.33	10
12 DECEMBER	366	81.2	0.21	70.8	35	90.6	0.02	10
TOTAL	**66060**				**6927**			

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=MELTON HILL

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVE WE (I
ANY GAR	99	895.0	0.1	0	0		0.0	0	100.0	
GIZZARD SHAD	33	399.4	0.0	33	0		0.0	0	100.0	
CARP	305	499.1	0.5	203	0		0.0	0	100.0	
ANY CARPSUCKER	112	797.3	0.2	112	0		0.0	0	100.0	
CHANNEL CATFISH	50	1256.9	0.1	50	0		0.0	0	100.0	
MUSKELLUNGE	322	502.1	0.5	184	0		0.0	0	100.0	
RAINBOW TROUT	603	230.4	0.9	603	267	168.3	3.9	267	55.7	(
WHITE BASS	1090	221.8	1.6	694	0		0.0	0	100.0	
STRIPED BASS	1778	113.1	2.7	1046	0		0.0	0	100.0	
WARMOUTH	80	621.0	0.1	0	28	157.5	0.4	0	65.0	(
BLUEGILL	11748	30.2	17.8	10216	1200	46.3	17.3	1138	89.8	(
SMALLMOUTH BASS	4828	47.9	7.3	4589	0		0.0	0	100.0	
SPOTTED BASS	867	229.8	1.3	867	0		0.0	0	100.0	
LARGEMOUTH BASS	27365	13.1	41.4	25780	1358	32.2	19.6	1276	95.0	2
WHITE CRAPPIE	12457	29.2	18.8	12366	3693	30.1	53.3	3693	70.4	(
BLACK CRAPPIE	361	242.4	0.5	289	313	144.1	4.5	313	13.3	1
YELLOW PERCH	871	179.1	1.3	871	0		0.0	0	100.0	
FRESHWATER DRUM	1107	170.1	1.7	604	0		0.0	0	100.0	

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=MELTON HILL

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RS HA PER
ANY CATFISH	1703	33.9	466	1.9	0.10	0.0	0.00	
MUSKELLUNGE	2175	24.4	500	2.5	0.03	120.9	0.00	
RAINBOW TROUT	725	52.1	176	0.8	0.73	6.0	0.41	
STRIPED BASS	6545	16.3	1688	7.4	0.06	88.5	0.00	
ANY SUNFISH	2295	28.7	613	2.6	1.73	15.8	0.64	
ANY BLACK BASS	36214	7.4	9270	41.2	0.88	22.7	0.04	
ANY CRAPPIE	14091	12.2	3489	16.0	0.73	27.7	0.28	
WALLEYE	161	103.8	46	0.2	0.00		0.00	
ANY SPECIES	24005	8.6	6210	27.3	0.72	49.4	0.01	1
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TOTAL	**87914**		**22458**					

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=MELTON HILL

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY CATFISH	0.00	0.00
	CHANNEL CATFISH	0.10	0.00
ANY SUNFISH			
	WARMOUTH	0.00	0.00
	BLUEGILL	1.73	0.64
ANY BLACK BASS			
	SMALLMOUTH BASS	0.13	0.00
	SPOTTED BASS	0.02	0.00
	LARGEMOUTH BASS	0.71	0.04
ANY CRAPPIE			
	WHITE CRAPPIE	0.71	0.26
	BLACK CRAPPIE	0.02	0.02

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOUR
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTI

LAKE=MELTON HILL

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVI (NON-TOURN
01 JANUARY	0		0	0.63	7
02 FEBRUARY	33	0.11	1	1.32	5
03 MARCH	37	1.60	6	0.45	14
04 APRIL	30	1.22	8	1.36	27
05 MAY	1	0.00	1	0.78	24
06 JUNE	35	1.79	30	0.87	19
07 JULY	20	0.87	10	0.77	18
08 AUGUST	15	0.96	4	0.25	19
09 SEPTEMBER	0		0	0.37	15
10 OCTOBER	3	0.00	1	0.57	13
11 NOVEMBER	0		0	0.54	3
12 DECEMBER	0		0	1.04	5

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2008

LAKE=MELTON HILL

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	4740	1200	5940	9
MUSKELLUNGE	16530	23170	39700	16
RAINBOW TROUT	3300	1030	4320	3
STRIPED BASS	50480	35180	85660	42
ANY SUNFISH	10710	6090	16800	10
ANY BLACK BASS	196560	133910	330470	230
ANY CRAPPIE	47290	21840	69130	94
WALLEYE	460	0	460	1
ANY SPECIES	52120	17440	69560	123
TOTAL	**382190**	**239860**	**622040**	**528**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=MELTON HILL

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	951	98.4
OTHERS	15	1.6

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
ANDERSON	409	43.0
KNOX	390	41.0
LOUDON	58	6.1
OTHERS IN TN	94	9.9

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	928	96.1
B) 26-100	20	2.1
C) 101-250	17	1.8
D) > 250	1	0.1

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	526	99.4
B) VACATION	3	0.6

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	519	98.1
B) 2-5	9	1.7
C) 6-10	1	0.2

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MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=FT. LOUDOUN

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	6278	36.3	0.4	1683	0.1	3.2
02 FEBRUARY	5701	16.4	0.4	935	0.1	2.9
03 MARCH	17609	15.1	1.2	3533	0.2	8.9
04 APRIL	27571	15.5	1.9	5280	0.4	13.9
05 MAY	24033	17.6	1.6	4921	0.3	12.2
06 JUNE	28825	5.7	2.0	6067	0.4	14.6
07 JULY	21771	34.6	1.5	4910	0.3	11.0
08 AUGUST	23151	24.0	1.6	5646	0.4	11.7
09 SEPTEMBER	14072	12.8	1.0	3244	0.2	7.1
10 OCTOBER	14151	20.1	1.0	3216	0.2	7.2
11 NOVEMBER	4988	22.6	0.3	1692	0.1	2.5
12 DECEMBER	9552	31.9	0.7	2279	0.2	4.8
TOTAL	**197702**			**43406**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=FT. LOUDOUN

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE HAR R
01 JANUARY	4960	59.9	0.79	44.8	1130	51.0	0.18	3
02 FEBRUARY	4048	19.5	0.71	10.3	513	32.1	0.09	2
03 MARCH	24300	24.5	1.38	19.1	4226	70.5	0.24	6
04 APRIL	41081	19.5	1.49	11.7	9926	36.3	0.36	3
05 MAY	34848	21.1	1.45	11.4	4086	53.5	0.17	4
06 JUNE	31419	18.6	1.09	17.6	4036	35.1	0.14	3
07 JULY	23513	45.6	1.08	28.0	2177	36.6	0.10	1
08 AUGUST	22688	25.0	0.98	7.1	2778	43.6	0.12	3
09 SEPTEMBER	18012	18.4	1.28	13.2	3377	41.2	0.24	3
10 OCTOBER	33255	33.0	2.35	25.7	6509	46.2	0.46	4
11 NOVEMBER	4240	38.0	0.85	29.8	499	79.5	0.10	7
12 DECEMBER	8597	38.3	0.90	20.2	2579	48.6	0.27	3
TOTAL	**250961**				**41836**			

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=FT. LOUDOUN

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAG WEIGH (LBS)
CARP	287	975.0	0.1	0	0		0.0	0	100.0	
ANY BULLHEAD	490	773.0	0.2	490	0		0.0	0	100.0	
BLUE CATFISH	80	1382.1	0.0	80	0		0.0	0	100.0	
CHANNEL CATFISH	80	1382.1	0.0	80	0		0.0	0	100.0	
WHITE BASS	2511	243.5	1.0	732	159	259.1	0.4	0	93.7	0.85
STRIPED BASS	7149	111.2	2.9	1493	95	411.6	0.2	0	98.7	2.85
CHEROKEE BASS	203	1018.6	0.1	203	0		0.0	0	100.0	
ORANGE SPOTTED SUNFISH	557	517.0	0.2	0	0		0.0	0	100.0	
BLUEGILL	28437	31.1	11.3	18088	4829	31.9	11.5	1916	83.0	0.67
SMALLMOUTH BASS	16377	40.7	6.5	16117	95	282.4	0.2	95	99.4	3.75
SPOTTED BASS	1856	260.1	0.7	1856	0		0.0	0	100.0	
LARGEMOUTH BASS	100039	11.8	39.9	98409	3541	26.9	8.5	3541	96.5	2.44
WHITE CRAPPIE	68082	15.6	27.2	66670	24896	19.6	59.5	24254	63.4	0.90
BLACK CRAPPIE	10338	44.0	4.1	9678	6153	45.3	14.7	5876	40.5	1.13
YELLOW PERCH	69	2155.5	0.0	0	0		0.0	0	100.0	
FRESHWATER DRUM	1141	329.9	0.5	527	0		0.0	0	100.0	

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=FT. LOUDOUN

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	R H PE
ANY CATFISH	9449	21.1	2246	4.8	0.43	46.4	0.09	
STRIPED BASS	1926	61.5	443	1.0	0.86		0.00	
ANY SUNFISH	5052	32.0	1125	2.6	1.66	58.5	0.42	
ANY BLACK BASS	94694	8.0	20810	47.9	0.97	15.7	0.04	
SMALLMOUTH BASS	536	80.7	119	0.3	0.25		0.00	
ANY CRAPPIE	53849	9.2	11608	27.2	1.42	18.9	0.61	
SAUGER	963	56.9	218	0.5	0.00		0.00	
ANY SPECIES	31102	11.7	6812	15.7	0.74	34.6	0.07	
OTHER	131	137.3	25	0.1	0.00		0.00	
TOTAL	**197702**		**43406**					

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=FT. LOUDOUN

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY BULLHEAD	0.32	0.00
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.05	0.00
	CHANNEL CATFISH	0.05	0.00
ANY SUNFISH			
	ORANGE SPOTTED SUNFISH	0.00	0.00
	BLUEGILL	1.66	0.42
ANY BLACK BASS			
ANY BLACK BASS			
	SMALLMOUTH BASS	0.17	0.00
	SPOTTED BASS	0.02	0.00
	LARGEMOUTH BASS	1.03	0.04
ANY CRAPPIE			
	WHITE CRAPPIE	1.24	0.49
	BLACK CRAPPIE	0.18	0.12

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOUR
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTI

LAKE=FT. LOUDOUN

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVI (NON-TOURN
01 JANUARY	0		0	0.32	8
02 FEBRUARY	22	1.28	2	0.75	12
03 MARCH	32	0.88	3	1.34	21
04 APRIL	34	1.30	12	1.01	32
05 MAY	6	1.58	5	1.15	40
06 JUNE	13	1.41	9	0.89	50
07 JULY	50	0.95	10	0.90	9
08 AUGUST	23	0.88	7	0.89	39
09 SEPTEMBER	0		0	0.80	26
10 OCTOBER	0		0	1.07	19
11 NOVEMBER	0		0	0.75	8
12 DECEMBER	0		0	0.82	11

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2008

LAKE=FT. LOUDOUN

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	38700	10580	49280	24
STRIPED BASS	20780	760	21540	3
ANY SUNFISH	14020	8920	22940	14
ANY BLACK BASS	487630	314860	802490	322
SMALLMOUTH BASS	2840	500	3340	2
ANY CRAPPIE	164360	76510	240870	187
SAUGER	4230	840	5060	4
ANY SPECIES	73740	20950	94690	75
OTHER	300	80	380	1
TOTAL	**806600**	**434000**	**1240590**	**632**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=FT. LOUDOUN

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	1129	97.4
OTHERS	30	2.6

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BLOUNT	478	42.5
KNOX	471	41.8
LOUDON	102	9.1
OTHERS IN TN	75	6.7

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	1096	94.8
B) 26-100	30	2.6
C) 101-250	19	1.6
D) > 250	11	1.0

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	620	98.4
B) VACATION	3	0.5
C) BUSINESS	6	1.0
D) OTHER	1	0.2

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	616	97.8
B) 2-5	8	1.3
C) 6-10	5	0.8
D) 11-15	1	0.2

BOONE
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MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=BOONE

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	4122	14.4	0.9	662	0.1	3.0
03 MARCH	19191	27.2	4.2	3319	0.7	13.9
04 APRIL	20389	22.8	4.5	3335	0.7	14.8
05 MAY	23861	29.0	5.3	4347	1.0	17.3
06 JUNE	28273	16.4	6.3	5987	1.3	20.5
07 JULY	22796	24.9	5.0	4562	1.0	16.5
08 AUGUST	19516	13.8	4.3	3837	0.8	14.1
TOTAL	**138148**			**26049**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=BOONE

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR
01 JANUARY	660	31.4	0.16	28.2	41	52.3	0.01
03 MARCH	20151	32.0	1.05	16.2	3838	29.4	0.20
04 APRIL	9787	27.2	0.48	14.3	612	54.7	0.03
05 MAY	10260	32.4	0.43	14.0	1193	65.3	0.05
06 JUNE	39582	34.2	1.40	29.7	565	56.0	0.02
07 JULY	24392	33.8	1.07	22.1	1140	60.2	0.05
08 AUGUST	13661	22.1	0.70	17.0	976	57.0	0.05
TOTAL	**118493**				**8365**		

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=BOONE

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED
CARP	51	1624.0	0.0	51	0		0.0	0	100.0
BLUE CATFISH	212	1101.1	0.2	106	96	651.3	1.1	0	54.7
CHANNEL CATFISH	1799	163.9	1.5	638	362	76.9	4.3	362	79.9
FLATHEAD CATFISH	306	746.3	0.3	122	190	208.4	2.3	95	37.9
RAINBOW TROUT	245	1055.8	0.2	245	0		0.0	0	100.0
BROWN TROUT	129	990.7	0.1	0	0		0.0	0	100.0
WHITE BASS	542	485.3	0.5	465	0		0.0	0	100.0
STRIPED BASS	7652	58.3	6.5	2870	432	59.9	5.2	299	94.4
CHEROKEE BASS	4618	73.8	3.9	1491	801	90.7	9.6	120	82.7
ROCK BASS	49	2294.6	0.0	0	0		0.0	0	100.0
GREEN SUNFISH	116	1938.8	0.1	116	0		0.0	0	100.0
WARMOUTH	1664	471.3	1.4	756	0		0.0	0	100.0
BLUEGILL	47326	24.4	40.1	34372	2189	47.1	26.2	1866	95.4
SMALLMOUTH BASS	19547	24.5	16.6	17955	706	45.6	8.4	380	96.4
SPOTTED BASS	1128	314.4	1.0	1062	0		0.0	0	100.0
LARGEMOUTH BASS	21202	23.0	18.0	19711	393	58.5	4.7	246	98.1
WHITE CRAPPIE	5769	62.8	4.9	5544	1728	48.9	20.7	1646	70.0
BLACK CRAPPIE	5129	76.4	4.3	4976	1154	79.9	13.8	1099	77.5
BLACKNOSE CRAPPIE	478	269.3	0.4	435	216	290.2	2.6	216	54.8

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=BOONE

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FO HARVES PER HOU
ANY CATFISH	2421	34.0	493	1.8	0.20	86.5	0.14	141.9
ANY TROUT	118	141.2	23	0.1	0.35		0.00	
ANY TEMPERATE BASS	327	56.3	53	0.2	0.07	114.3	0.00	
STRIPED BASS	10954	16.8	2106	7.9	0.13	79.3	0.02	124.9
CHEROKEE BASS	2300	35.5	452	1.7	0.43	27.4	0.04	104.0
ANY SUNFISH	6985	20.5	1412	5.1	3.09	47.8	0.42	74.6
ANY BLACK BASS	84872	9.8	15903	61.4	0.34	16.3	0.00	145.5
SMALLMOUTH BASS	1127	43.0	199	0.8	0.38	14.9	0.00	
LARGEMOUTH BASS	236	102.9	47	0.2	0.56		0.00	
ANY CRAPPIE	8067	23.8	1391	5.8	1.28	60.1	0.39	66.2
ANY SPECIES	19721	14.4	3766	14.3	0.99	60.5	0.01	106.2
OTHER	1018	51.4	207	0.7	0.00		0.00	
TOTAL	**138146**		**26052**					

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=BOONE

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	BLUE CATFISH	0.02	0.00
	CHANNEL CATFISH	0.15	0.11
	FLATHEAD CATFISH	0.03	0.03
ANY TROUT			
	RAINBOW TROUT	0.35	0.00
	BROWN TROUT	0.00	0.00
ANY TEMPERATE BASS			
	STRIPED BASS	0.05	0.00
	CHEROKEE BASS	0.02	0.00
ANY SUNFISH			
	GREEN SUNFISH	0.01	0.00
	WARMOUTH	0.07	0.00
	BLUEGILL	3.01	0.42
ANY BLACK BASS			
ANY BLACK BASS			
ANY BLACK BASS			
	SMALLMOUTH BASS	0.21	0.00
	SPOTTED BASS	0.01	0.00
	LARGEMOUTH BASS	0.23	0.00
ANY CRAPPIE			
	WHITE CRAPPIE	0.65	0.22
	BLACK CRAPPIE	0.58	0.14
	BLACKNOSE CRAPPIE	0.05	0.03

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOUR
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTI

LAKE=BOONE

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEW (NON-TOURNAM
01 JANUARY	0		0	0.26	27
03 MARCH	5	0.32	2	0.35	37
04 APRIL	32	0.59	14	0.44	66
05 MAY	48	0.21	18	0.29	44
06 JUNE	7	0.70	6	0.32	60
07 JULY	6	0.20	6	0.37	63
08 AUGUST	8	0.11	5	0.30	45

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2008

LAKE=BOONE

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	5980	7180	13160	9
ANY TROUT	580	470	1050	1
ANY TEMPERATE BASS	770	350	1120	2
STRIPED BASS	42810	35610	78420	48
CHEROKEE BASS	6240	15430	21670	9
ANY SUNFISH	7880	9900	14440	21
ANY BLACK BASS	304620	440360	744980	382
SMALLMOUTH BASS	12160	6030	18000	9
LARGEMOUTH BASS	2360	1180	3550	1
ANY CRAPPIE	20710	28330	49040	36
ANY SPECIES	43020	43370	86390	82
OTHER	1130	1920	3050	4
TOTAL	**448260**	**590130**	**1034870**	**604**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=BOONE

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	996	85.6
VA	105	9.0
OTHERS	62	5.3

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
CARTER	108	10.8
SULLIVAN	456	45.6
WASHINGTON	342	34.2
OTHERS IN TN	89	8.9
OUT-OF-STATE	4	0.4

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	958	82.3
B) 26-100	173	14.9
C) 101-250	20	1.7
D) > 250	13	1.1

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	644	99.5
B) VACATION	1	0.2
D) OTHER	2	0.3

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	626	96.9
B) 2-5	17	2.6
C) 6-10	3	0.5

WATAUGA
RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=WATAUGA

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	4925	13.2	0.8	949	0.1	3.4
03 MARCH	11098	29.3	1.7	1967	0.3	7.6
04 APRIL	21775	13.8	3.4	3702	0.6	14.9
05 MAY	32040	18.2	5.0	5332	0.8	22.0
06 JUNE	22048	16.9	3.4	3651	0.6	15.1
07 JULY	32199	25.3	5.0	5852	0.9	22.1
08 AUGUST	21578	22.6	3.4	4056	0.6	14.8
TOTAL	**145663**			**25509**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=WATAUGA

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR
01 JANUARY	887	34.3	0.18	31.5	443	61.0	0.09
03 MARCH	2775	43.0	0.25	29.7	888	107.8	0.08
04 APRIL	11541	28.6	0.53	25.1	1307	38.9	0.06
05 MAY	20185	28.0	0.63	20.8	2884	34.8	0.09
06 JUNE	11244	21.1	0.51	12.6	2646	25.0	0.12
07 JULY	12236	42.4	0.38	32.8	2898	63.0	0.09
08 AUGUST	22010	47.1	1.02	40.3	5395	69.5	0.25
TOTAL	**80878**				**16461**		

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=WATAUGA

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED
CARP	1035	254.3	1.3	0	0		0.0	0	100.0
BLUE CATFISH	44	854.7	0.1	0	44	854.7	0.3	0	0.0
CHANNEL CATFISH	937	171.5	1.2	441	406	201.9	2.5	232	56.7
FLATHEAD CATFISH	555	332.6	0.7	62	372	330.7	2.3	62	33.0
RAINBOW TROUT	7688	31.5	9.5	7139	5459	37.1	33.2	5362	29.0
BROWN TROUT	53	1306.2	0.1	53	0		0.0	0	100.0
LAKE TROUT	2947	66.5	3.7	648	1908	57.0	11.6	537	35.3
ROCK BASS	1673	144.2	2.1	279	89	212.3	0.5	89	94.7
WARMOUTH	617	483.5	0.8	88	150	723.2	0.9	150	75.7
BLUEGILL	26297	27.7	32.6	18701	1970	63.8	12.0	1478	92.5
LONGEAR SUNFISH	292	605.9	0.4	0	0		0.0	0	100.0
SMALLMOUTH BASS	17396	22.9	21.6	15181	998	62.8	6.1	881	94.3
SPOTTED BASS	10006	41.6	12.4	9937	2755	80.6	16.7	2755	72.5
LARGEMOUTH BASS	8556	36.1	10.6	8088	535	58.9	3.3	494	93.7
BLACKNOSE CRAPPIE	44	854.7	0.1	44	44	854.7	0.3	44	0.0
WALLEYE	2414	105.6	3.0	2153	1729	85.2	10.5	1482	28.4

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=WATAUGA

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	R H PE
ANY CATFISH	2222	44.8	408	1.5	0.25	42.4	0.13	
RAINBOW TROUT	558	64.0	104	0.4	1.10	16.2	1.01	
ANY TROUT	28146	15.5	4973	19.3	0.23	29.9	0.16	
LAKE TROUT	5397	25.5	935	3.7	0.13	75.7	0.12	
ANY SUNFISH	5821	29.6	1058	4.0	2.41	64.6	0.46	
ANY BLACK BASS	62941	9.9	10882	43.2	0.37	22.5	0.05	
SMALLMOUTH BASS	1126	30.1	217	0.8	0.15	48.2	0.12	
LARGEMOUTH BASS	360	106.0	63	0.2	0.11		0.00	
ANY CRAPPIE	1821	43.1	309	1.3	0.04	141.2	0.04	
WALLEYE	13148	18.3	2291	9.0	0.09	55.7	0.07	
ANY SPECIES	23505	15.1	4166	16.1	0.50	75.8	0.04	
OTHER	621	73.6	103	0.4	0.00		0.00	
TOTAL	**145666**		**25509**					

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=WATAUGA

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	BLUE CATFISH	0.00	0.00
	CHANNEL CATFISH	0.22	0.10
	FLATHEAD CATFISH	0.03	0.03
ANY TROUT			
	RAINBOW TROUT	0.23	0.16
	ANY TROUT	0.00	0.00
	BROWN TROUT	0.00	0.00
ANY SUNFISH			
	WARMOUTH	0.01	0.04
	BLUEGILL	2.40	0.42
	LONGEAR SUNFISH	0.00	0.00
ANY BLACK BASS			
ANY BLACK BASS			
ANY BLACK BASS			
	SMALLMOUTH BASS	0.24	0.01
	SPOTTED BASS	0.15	0.04
	LARGEMOUTH BASS	0.13	0.01
ANY CRAPPIE			
	BLACKNOSE CRAPPIE	0.04	0.04

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOUR
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTI

LAKE=WATAUGA

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEW (NON-TOURNAM
01 JANUARY	0		0	0.18	23
03 MARCH	62	0.25	7	0.20	13
04 APRIL	19	0.31	12	0.47	41
05 MAY	16	0.41	8	0.38	54
06 JUNE	0		0	0.53	25
07 JULY	0		0	0.21	22
08 AUGUST	0		0	0.44	17

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2008

LAKE=WATAUGA

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	4060	4890	8680	5
RAINBOW TROUT	720	1070	1790	6
ANY TROUT	64770	153220	217990	78
LAKE TROUT	25730	16030	39050	18
ANY SUNFISH	21080	18130	39210	15
ANY BLACK BASS	254040	300080	554120	210
SMALLMOUTH BASS	1080	1080	2170	10
LARGEMOUTH BASS	4320	900	3610	2
ANY CRAPPIE	2080	4590	6670	6
WALLEYE	47990	45310	93290	46
ANY SPECIES	51000	46250	97250	52
OTHER	500	1180	1680	2
TOTAL	**477370**	**592730**	**1065510**	**450**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=WATAUGA

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
NC	99	10.8
TN	768	83.8
OTHERS	50	5.5

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
CARTER	437	57.0
JOHNSON	137	17.9
SULLIVAN	43	5.6
WASHINGTON	81	10.6
OTHERS IN TN	67	8.7
OUT-OF-STATE	1	0.1

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	620	67.5
B) 26-100	274	29.8
C) 101-250	12	1.3
D) > 250	13	1.4

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	448	98.5
B) VACATION	7	1.5

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	430	94.7
B) 2-5	21	4.6
C) 6-10	3	0.7

Appendix I

Field Data Collection Forms

Tennessee Wildlife Resources Agency
Reservoir Angler Count

1. Calendar Date____/____/____
   mm dd yy

2. Day Period: am or pm (Circle One)

3. Reservoir _____ (Code)

4. Area _____

5. Clerk ID _____ (TWRA Radio Numbers)

6. Survey Method: Roving or Access Point (Circle)

7. Count of Bank Anglers _____

8. Count of Boat Anglers _____

9. Comments _____

_____

_____

_____

_____

_____

_____

_____

_____

Form No. WR-0795 (Rev. 11-00)
RDA 1455

Tennessee Wildlife Resources Agency
Reservoir Angler Survey

(Questions in bold represent angler contact questions)

1. Calendar Date____/____/_____ 2. Reservoir _____ (Code) 3. Area _____
mm dd yy

4. Angler Type: Bank or Boat (Circle) **5. Hours Fished ____.____**

6. How many more hours do you plan to fish today? ____.___ (indicate completed trip with a zero)

7. Party Size ____ (No. of anglers)

8. Principal Species Fished For: (Circle One)
997=any species, 370=crappie, 360=black bass, 364=LM bass, 362=SM bass, 363=SP bass, 345=sunfish, 238=catfish, 492=walleye, 491=sauger, 493 =saugeye, 282=trout, 287=lake trout, 279=rainbow trout, 284=brown trout, 325=temperate bass, 328=striped bass, 326=white bass, 329=cherokee bass, 268=musky, 16=other

Fish Harvest Information (for party):

Species Code	No. Harvested	Bulk Weight (lbs.)	No. Released
		.	
		.	
		.	
		.	
		.	
		.	

Economic Section

9. State of Residence _____ (Code) **10. County of Residence** _____ (Code)

11. Miles from Home to Lake ____ (1 = 0-25 mi., 2 = 26-100 mi., 3 = 101-250 mi., 4 = over 250 mi.)

12. Reason for Trip ____ (1 = Fishing, 2 = Vacation, 3 = Business, 4 = Other)

13. No. of days in Trip _____

Clerk: *"I would now like to ask you some questions about the value of your fishing trip. It is important to the TWRA to estimate the value of reservoir sportfisheries. The next two questions will be used only to calculate this economic estimate."*

14. How much money will you spend on today's fishing trip for things like gas, food, bait, lodging, guides, etc.? $_____

15. How much more than $*value above* **would you be willing to pay to fish here per day, if for example, it just kept getting more and more expensive to make this trip?** $_____

Tournament Section

16. Was the angler(s) fishing in a tournament during the interview? Yes_____ No_____

Form No. WR-0794 (Rev. 12-01)
RDA 1455

NUMBERS OF ROE-FISH HARVESTED BY COMMERCIAL FISHERS
CHICKAMAUGA RESERVOIR 2007 TO DEC 2009

---------- Report Year=2007 ----------

NUMBER OF PADDLEFISH HARVESTED	NUMBER OF STURGEON HARVESTED	NUMBER OF BOWFIN HARVESTED
35	0	0

---------- Report Year=2008 ----------

NUMBER OF PADDLEFISH HARVESTED	NUMBER OF STURGEON HARVESTED	NUMBER OF BOWFIN HARVESTED
166	0	0

---------- Report Year=2009 ----------

NUMBER OF PADDLEFISH HARVESTED	NUMBER OF STURGEON HARVESTED	NUMBER OF BOWFIN HARVESTED
74	0	0

TOTAL POUNDS OF ROE-FISH FLESH AND EGGS HARVESTED AND SOLD
BY COMMERCIAL ANGLERS FROM 2007 THROUGH DEC 2009
FROM CHICKAMAUGA RESERVOIR

---------- Report Year=2007 ----------

Species	POUNDS OF FLESH	POUNDS OF EGGS
Paddlefish	136	119.11

---------- Report Year=2008 ----------

Species	POUNDS OF FLESH	POUNDS OF EGGS
Paddlefish	1339	208.36

---------- Report Year=2009 ----------

Species	POUNDS OF FLESH	POUNDS OF EGGS
Paddlefish	874	90.79

NUMBERS OF ROE-FISH HARVESTED BY COMMERCIAL FISHERS
WATTS BAR RESERVOIR NOV 2007 TO DEC 2009

---------- Report Year=2007 ----------

NUMBER OF PADDLEFISH HARVESTED	NUMBER OF STURGEON HARVESTED	NUMBER OF BOWFIN HARVESTED
1	0	0

---------- Report Year=2008 ----------

NUMBER OF PADDLEFISH HARVESTED	NUMBER OF STURGEON HARVESTED	NUMBER OF BOWFIN HARVESTED
0	0	0

---------- Report Year=2009 ----------

NUMBER OF PADDLEFISH HARVESTED	NUMBER OF STURGEON HARVESTED	NUMBER OF BOWFIN HARVESTED
0	0	0

TOTAL POUNDS OF ROE-FISH FLESH AND EGGS HARVESTED AND SOLD
BY COMMERCIAL ANGLERS FROM 2007 THROUGH DEC 2009
FROM WATTS BAR RESERVOIR

---------- Report Year=2007 ----------

Species	POUNDS OF FLESH	POUNDS OF EGGS
Paddlefish	0	6.22

---------- Report Year=2008 ----------

No Records

---------- Report Year=2009 ----------

No Records

Chickamauga 2008

Species	SumOfPounds	Report Year	Waterbody
Bighead / Silver Carp	331	2008	76
Blue or Channel Catfish	147104	2008	76
Buffalo Fish	14641	2008	76
Catfish	1289	2008	76
Common Carp	2536	2008	76
Flathead Catfish	2806	2008	76
Freshwater Drum	6674	2008	76
Gar	67	2008	76
Shad (skipjack herring)	317	2008	76
Snapping Turtles	70	2008	76
Yellow Bass	10	2008	76

Chickamauga 2009

Species	SumOfPounds	Report Year	Waterbody
Bighead / Silver Carp	63	2009	76
Blue or Channel Catfish	244035	2009	76
Buffalo Fish	5525	2009	76
Catfish	13814	2009	76
Common Carp	3944	2009	76
Flathead Catfish	9132	2009	76
Freshwater Drum	7456	2009	76
Gar	881	2009	76
Snapping Turtles	349	2009	76

Watts Bar 2008

Species	SumOfPounds	Report Year	Waterbody
Shad (skipjack herring)	27	2008	77

Watts Bar 2009

Species	SumOfPounds	Report Year	Waterbody

*No non-roe commercial fish recorded in 2009

Final Report

Tennessee Reservoir Creel Survey

2007 Results

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April 2008

Program Overview

This document provides a summary of data collected by Tennessee Wildlife Resource Agency (TWRA) personnel for the statewide reservoir angler creel survey for the 2007 calendar year. Creel surveys were used to assess the fisheries of 18 reservoirs throughout Tennessee using two basic sampling methods; roving and access point. This overview contains descriptions of: 1) survey designs, 2) sampling methodologies, and 3) analytical methods. Each description is divided into roving and access point surveys. The roving survey descriptions give a more thorough account of the methodology; access point survey descriptions only list methods that differed from roving surveys. The roving and access point creel survey designs were adopted from methods described by Malvestuto et al. (1978), Malvestuto (1996) and St. John (1992). The intention of this narrative is to provide readers with a brief overview of the statistical sampling framework.

Survey Designs

Creel clerks conducted surveys on 18 reservoirs with active, on-site methods whereby anglers were interviewed either during, or immediately following, fishing trips. Fishery-dependent information collected included: angler effort, trip duration, target preferences, catch, harvest, release, demographic measures, economic values and individual status as a tournament angler. Seventeen of the reservoirs were sampled using roving creel survey designs while one of the reservoirs (Woods) was sampled with access point creel survey methods.

(Roving Surveys)

The roving survey method used non-uniform probability, stratified random sampling to maximize sampling efficiency and minimize bias. Each reservoir was divided into a number of sections. The area of a section was originally defined by the ability of a creel clerk to complete a circuit in about 1 to 1.5 hours. Each area within a reservoir was assigned a sampling probability based on expected angler use within each of 12 monthly time blocks. The sum of the area probabilities equaled 1.0. The fishing day was defined as the period of time from sunrise to sunset. Fishing days were divided into two sampling periods in which the period from sunrise to sunset was divided into two roughly equal periods. Sampling periods also were assigned probabilities based on expected angler use within each month, and these summed to 1.0. Sampled days were divided into two strata (weekend days and weekday days) to homogenize the distributions of angler occurrence, assuming that anglers would be more abundant during weekend samples when a greater proportion of the angling population would be expected to have more time for recreation.

Random work schedules were created prior to the beginning of the 2007 survey year. Within any given month, a predetermined number of days was allocated to each day-type (weekend and weekday). Calendar days then were randomly chosen each month for each day-type. Within each sample day, secondary sampling units consisted of all the possible combinations of time periods (2) and lake sections. Probabilities for secondary sample units were derived by multiplying the time period probability by the lake section probability. Secondary sampling unit probabilities summed to 1.0 for any given lake. One secondary sampling unit was randomly chosen each day; that is to say, each sample day, creel clerks worked one ½-day period within a single, pre-defined lake section.

(Access Point Surveys)

Although the sampling methodology for the access point creel surveys differed from the roving surveys, the framework used to determine the sampling designs was basically the same. The one exception was the substitution of angler access points (boat ramps) for reservoir areas. The secondary sample units comprised all combinations of access points and time periods, and the secondary sampling unit probabilities summed to 1.0. During each sample day, creel clerks worked one ½-day period at a single access point.

Sample Methodology

(Roving Surveys)

Creel clerks collected data during the scheduled work periods described previously. A roving creel survey sample consisted of two parts: angler counts and angler interviews. Daily counts of anglers were taken within the sample period by making a circuit of the lake concurrently with interviews during a single circuit of the lake section within a ½-day sampling period (count-as-you-go method). The count-as-you-go method required that check stations be established at ¼-way points on the route to enable clerks to stay on schedule and finish the single circuit during the allotted time. Travel direction was randomly determined by coin toss. All anglers fishing from either boats or from the shore were counted.

Creel clerks interviewed as many anglers as possible during a sample period. If there were more anglers than could be interviewed, then angling parties were systematically skipped to ensure that interviews were collected throughout the entire reservoir section in the allotted time.

Upon approaching anglers, creel clerks recorded information, which did not require interrupting fishing, including date, reservoir, sample area, fishing from the bank or a boat, and the number of anglers in the fishing party. When the clerk reached the angler or angling group, he asked if they would mind spending a few moments answering questions related to the fishing trip. If anglers did not wish to be interrupted, then the creel clerk moved on. If anglers did not mind responding to the interview, then the clerk asked how long they had been fishing, how much longer they expected to fish, what their primary target species was, what state and county they were from, the distance they traveled from home, the reason for the trip, the number of days in the trip, dollar amount of trip expenditures, and the additional amount of money they would be willing to spend if daily expenditures were to increase. The anglers were also categorized as a tournament (actively fishing in a tournament at the time of the interview) or a non-tournament angler. The creel clerk counted all fish harvested and recorded the bulk weight of each harvested species. Anglers were also asked how many of each species had been released. Each respondent's answers were recorded on pre-printed survey forms using TWRA survey codes. Since anglers were interviewed before completing their fishing trips with roving surveys, interview data from roving surveys were based on uncompleted fishing trips.

(Access Point Surveys)

Access point surveys differed from roving creel surveys in that anglers were not interviewed until they had finished fishing and were leaving the water at an access site. Thus, interview data from access point surveys were based on competed fishing trips. During any given ½-day sampling period, the creel clerk waited at a boat ramp and interviewed anglers as they left using the same interview format as used for roving surveys. All anglers leaving access sites were counted and as many as possible were interviewed.

Analytical Methods

Creel surveys conducted by TWRA used randomized sampling designs which, taken alone, only provide information about small portions of each reservoir fishery. To provide meaningful estimates about the populations from which the samples were drawn, the sample values must be expanded over space and time. The following narrative describes the calculations for these data expansions for any given reservoir. To assess the efficiency of the sampling effort and the variability of the estimates, relative standard errors (RSE) were calculated where possible. The RSE is the standard error (se) of an estimated value (y), expressed as a percentage of that value, or RSE = (se/y) x 100. Mathematical formulas for the following estimates were given by Malvestuto et al. (1978).

(Roving Surveys)

Fishing Effort

Estimates of fishing effort were calculated using daily angler counts and the number of hours within a sample period. Thus, for any given sampling period, fishing effort measured in angler-hours (e) was calculated as the product of the total angler count (c) and the number of hours assigned to the sampling period (h), or e = c(h). This value estimates total angler-hours for a single lake section within a single time period, which must be expanded to an estimate of angler-hours for the entire lake for the whole day. This expansion is accomplished by dividing e by the probability for the secondary sampling unit (time period/lake section) worked that day. For example, if the time period probability was 0.5 and the lake section probability was 0.4, then the secondary sampling unit probability is 0.5 x 0.4, or 0.20, so an estimate of e=100 angler-hours for a given secondary unit would be expanded to 100/0.2 or 100 x 5 = 500 angler-hours for the whole lake for that entire day (E).

To derive estimates of total monthly fishing effort, means were taken across the daily values of E within each day-type stratum each month. These two daily mean values of fishing effort (one for weekends and one for weekdays) were weighted by the proportional number of those day types within each month (e.g. weekend weight = no. weekend-days/ total days in month), and then summed to provide a mean daily estimate of fishing effort for the month. This mean daily value then was multiplied by the total number of days in the month to give total monthly effort for the entire lake (T). Intended monthly fishing effort for a given species, or species group, was computed as the proportion of interviewed anglers fishing for that group times total monthly fishing effort. So, for example, if 25% of the anglers interviewed were fishing for black bass, the monthly-intended fishing effort for black bass would be 0.25(T).

Catch Rates (CPE, HPE and RPE)

Catch-per-unit-effort or CPE = the number of fish caught per hour, which includes fish harvested plus fish released back into the water. For roving creel surveys, CPE values are based on the number of fish caught by anglers at the time of interview (uncompleted fishing trips). For the following description, release or harvest values may be substituted for catch values to derive release per angler-hour, RPE, or harvest per angler-hour, HPE.

For each interview on a given sample day, the total number of fish caught by all anglers in the fishing party (n) was divided by the total time all anglers in the party had spent fishing (f) up to the point they were interviewed. These individual party CPE values (n/f) then were averaged to provide a daily CPE. A mean was taken across the daily CPE values within each day-type stratum, and then these weekday and weekend means were weighted and summed (as described for daily fishing effort above) to give a mean daily CPE for the month. This mean daily value is representative of the month as a whole, and becomes the monthly CPE estimate for all species combined.

Catch, Harvest and Release

Total daily catch for an entire reservoir (C) was calculated by multiplying the total daily effort (E) by the daily CPE estimate. The same process was applied to release and harvest data to derive total daily release (R) and total daily harvest (H). The daily total catch values were used to calculate a mean daily catch within each day-type stratum each month. The mean daily catch values for weekdays and weekends were weighted and summed across day types, as done for effort and CPE above, to derive a mean daily catch for the month. This mean daily value then was multiplied by the number of days in the month (as done for fishing effort) to estimate total monthly catch (M).

Estimates of catch for individual species were calculated from the percent composition of individual species recorded during interviews. For example, if a given species accounted for 40% of the total number of fish recorded during any given month, then the total monthly catch for that species would be 0.4(M).

Intended Species Catch Rates

Catch rates (CPE, RPE and HPE) for anglers targeting certain species were calculated based on interviews of anglers who intended to catch those species. For computations, interviews from anglers intending to catch various species were grouped. Catch rates for intended species were calculated for each interview by summing the number of fish caught of that species and dividing by fishing effort for all anglers in the party. A mean CPE then was taken across interviews within intended species categories to provide the intended species catch rates.

Caution should be exercised when interpreting these data since many of the target species groups were general categories (e.g. black bass, crappie) while other valid responses were more specific (e.g. largemouth bass, smallmouth bass). Anglers were asked to be as specific as possible with regard to their target species, but often no discrimination was made between individual species within general groups. For example, calculations made for black bass only include data taken from anglers who stated black bass to be their target species group. The black bass category does not include values from anglers who specified they were fishing for largemouth bass or smallmouth bass. Calculations for these species are presented within their own categories. To obtain a true estimate of effort for black bass, all categories for black bass species, including the general category, must be summed (i.e. true total black bass effort = black bass effort + largemouth bass effort + smallmouth bass effort). The CPE estimates for intended species, however, are not additive since each estimate is based on a different value of intended fishing effort in the denominator, i.e., the fractions do not have a common denominator as they stand.

Relative Species Catch Rates

Relative catch rates are the proportional catch rates of individual species within the general intended species groups. These rates were computed by multiplying the intended catch rate for a given species group by the proportion of relevant species recorded in the creel. So, for example, if the intended catch rate for crappie is 1.8 fish/h, and black crappie represented 25% of the crappie in the creel and white crappie represented the remaining 75%, then the intended rate of 1.8 was partitioned into 1.8(.25) = 0.45 for black crappie and 1.8(.75) = 1.35 for white crappie. These relations do not hold for black bass, however, because there were usually more than one black bass intended catch rate (e.g., general black bass, largemouth bass, smallmouth bass, etc.), so there was no single rate to partition. The intended rates are not additive, as explained above, so the sum of the intended rates cannot serve as the single rate for black bass to be partitioned. So, the relative CPE values for black bass species were computed by generating a new total black bass catch rate by summing the monthly total catches of all black bass species in the numerator, and dividing by the sum of total monthly-intended fishing effort for all black bass in the denominator. This value then was partitioned by the proportion of each black bass species recorded in the creel. Although the species relative catch rates for black bass sum to this new total rate, the new rate is not a pure intended catch rate and thus is not reported elsewhere in the report. In summary, relative catch rates basically reflect the species composition of the catch within intended species groups, and thus do not represent true catch rates for those individual species, as do the intended rates.

Economic Values

Anglers were asked to give estimates of daily trip expenditures for items, which included fuel, food, bait, lodging and guides fees. They were also asked how much additional money they would be willing to spend if daily trip costs were to increase in the future. This value is anglers' willingness to pay above actual costs, and represents anglers' consumer surplus. Consumer surplus is equivalent to the amount of money that anglers would be willing to spend for the opportunity to fish a given resource, over-and-above what they actually have to spend. This amount of money is the theoretical profit associated with the fishery, as if it were privately owned. This value is necessary to compute so that the profit associated with recreational fisheries in Tennessee can be compared to other more traditional industries. Money spent for trip preparation and travel to the reservoirs (fuel, food, bait, etc.) is funneled into other business that provide goods and services enabling anglers to go fishing; this money, in turn, employs people in these business, and is re-cycled in the local economies, generating more goods, services and profits. Both components of economic value, trip expenditures and consumer surplus, sum to provide an estimate of total angler-oriented value.

Total monthly estimates of trip expenditures and consumer surplus were computed by multiplying the median dollar values per trip by the total number of angler-trips estimated for the month. This was first done for each intended species group and then the intended species values were summed to give the total monthly economic estimates. Median trip values for the economic responses were used because frequency distributions of expenditures per trip and consumer surplus per trip were skewed to the left, such that means were generally higher than medians, and thus the more conservative median values were used in the computations.

Tournament Status

Beginning in 2002, all anglers were asked if they were actively fishing in a tournament at the time of the interview. Each interview record was coded as yes (tournament fishing), or no (not tournament fishing). Analyses involving tournament angling were restricted to those individuals targeting black basses. Black bass Catch rates (CPE) were calculated for tournament anglers as well as non tournament angler. For comparison, percent of black bass effort and catch rates for by angler type were printed in tables at the end of each reservoir section in the report

(Access Point Surveys)

This section only describes estimates, which differ in computation from the roving survey methods. These differences include estimating fishing effort and catch rates. All other estimates were calculated the same way for the two survey techniques.

Fishing Effort

The standard difference between roving and access point surveys with respect to derivation of fishing effort is how angler-hours for the sample period are estimated. For roving surveys as described above, sample period effort is estimated as the angler count times the number of hours in the sample period. For access point surveys, however, angler-hours for the sample period is simply the sum of angler-hours recorded from completed trip interviews at the access point. This assumes that all anglers who exited the site were interviewed. If all anglers could not be interviewed upon exit, then angler-hours for the sample period were estimated as the mean completed trip time computed from interviews, times the total number of anglers who exited the site. Once sample period effort is computed, the computational techniques for access point surveys followed those outlined above for roving surveys.

In 2007, Woods Reservoir was sampled using the access point survey method. To maximize work time efficiency during the initial year, only the major access sites were sampled. In order to expand the daily ramp effort to lake wide totals, monthly area probabilites were estimated based on boat trailer counts that were measured from all ramps on every scheduled sample day. These probablilties were used to obtain the monthly area probability for the sampled ramp which was used to exand the local effort lake wide during the monthly time blocks. This differed from the roving surveys which had fixed probabilities prior to the sample year and were used to schedule the sampling effort.

Catch Rates

Catch rates from roving surveys should be computed differently than catch rates from access point surveys. This is because catch rate data are based on uncompleted trips from roving surveys. If trip data is not complete, then it is appropriate to compute a catch rate for each interview and then take a mean of these rates within any given day to provide a daily catch rate. This is the method described above for computation of catch rates from roving surveys. This method gives each interview equal weighting regardless of how long the anglers were fishing. Equal weighting is appropriate because the final length of the trip is not known. However, if the completed trip length is known as with access point surveys, then catch rate is computed as the sum of catch across interviews (numerator) divided by the sum of effort across interviews (denominator). This provides a single total ratio estimate of CPE, which is equivalent to weighting each interview catch rate by the time spent fishing. This weighting is appropriate because the total fishing trip is represented in the data.

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Table of Contents

Statewide

Page

Statewide Angling Effort for All Anglers, by Lake – 2007 …… 7
Statewide Angling Effort for Intended Species – 2007 …… 8
Statewide Catch Statistics for All Anglers, By Lake – 2007 …… 9
Statewide Fishing Effort and Catch Rates, by Lake, for Intended Species – 2007 …… 10
Statewide Summary of Trip Expenditures and Consumer Surplus, by Lake - 2007 …… 24
Statewide Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2007 …… 25

TWRA Region I

Kentucky Reservoir

Monthly Angling Effort for All Anglers – 2007 …… 28
Monthly Catch Statistics for All Anglers – 2007 …… 29
Summary of Species Catch Statistics – 2007 …… 30
Summary of Fishing Effort and Catch Rates for Intended Species – 2007 …… 31
Summary of Relative Species Catch Rates Within Target Groups - 2007 …… 32
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 33
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2007 …… 34
Summary of Sociological Questions - 2007 …… 35

Kentucky 1 - North Reservoir

Monthly Angling Effort for All Anglers – 2007 …… 37
Monthly Catch Statistics for All Anglers – 2007 …… 38
Summary of Species Catch Statistics – 2007 …… 39
Summary of Fishing Effort and Catch Rates for Intended Species – 2007 …… 40
Summary of Relative Species Catch Rates Within Target Groups - 2007 …… 41
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 42
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2007 …… 43
Summary of Sociological Questions - 2007 …… 44

Kentucky 2 - South Reservoir

Monthly Angling Effort for All Anglers – 2007 …… 46
Monthly Catch Statistics for All Anglers – 2007 …… 47
Summary of Species Catch Statistics – 2007 …… 48
Summary of Fishing Effort and Catch Rates for Intended Species – 2007 …… 49
Summary of Relative Species Catch Rates Within Target Groups - 2006 …… 50
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 51
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2007 …… 52
Summary of Sociological Questions - 2007 …… 53

Barkley Reservoir

Monthly Angling Effort for All Anglers – 2007 …… 55
Monthly Catch Statistics for All Anglers – 2007 …… 56
Summary of Species Catch Statistics – 2007 …… 57
Summary of Fishing Effort and Catch Rates for Intended Species – 2007 …… 58
Summary of Relative Species Catch Rates Within Target Groups - 2007 …… 59
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 60
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2007 …… 61
Summary of Sociological Questions - 2007 …… 62

Pickwick Reservoir

Monthly Angling Effort for All Anglers – 2007 …… 64
Monthly Catch Statistics for All Anglers – 2007 …… 65
Summary of Species Catch Statistics – 2007 …… 66
Summary of Fishing Effort and Catch Rates for Intended Species – 2007 …… 67
Summary of Relative Species Catch Rates Within Target Groups - 2007 …… 68
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 69
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2007 …… 70
Summary of Sociological Questions - 2007 …… 71

Reelfoot Lake

Monthly Angling Effort for All Anglers – 2007 ……..……..……..……... 73
Monthly Catch Statistics for All Anglers – 2007 ……..……..…..……..……..... 74
Summary of Species Catch Statistics – 2007 ……..……..…….…… 75
Summary of Fishing Effort and Catch Rates for Intended Species – 2007 …….……..…… 76
Summary of Relative Species Catch Rates Within Target Groups - 2007 ……..…… 77
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 78
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2007 …… 79
Summary of Sociological Questions - 2007 ……....……..……..…… 80

TWRA Region II

Tims Ford Reservoir

Monthly Angling Effort for All Anglers – 2007 ……..……..……..……... 83
Monthly Catch Statistics for All Anglers – 2007 ……..……..…..……..……..... 84
Summary of Species Catch Statistics – 2007 ……..……..…….…… 85
Summary of Fishing Effort and Catch Rates for Intended Species – 2007 …….……..…… 86
Summary of Relative Species Catch Rates Within Target Groups - 2007 ……..…… 87
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 88
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2007 …… 89
Summary of Sociological Questions - 2007 ……....……..……..…… 90

Woods Reservoir

Monthly Angling Effort for All Anglers – 2007 ……..……..……..……... 92
Monthly Catch Statistics for All Anglers – 2007 ……..……..…..……..……..... 93
Summary of Species Catch Statistics – 2007 ……..……..…….…… 94
Summary of Fishing Effort and Catch Rates for Intended Species – 2007 …….……..…… 95
Summary of Relative Species Catch Rates Within Target Groups - 2007 ……..…… 96
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 97
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2007 …… 98
Summary of Sociological Questions - 2007 ……....……..……..…… 99

Percy Priest Reservoir

Monthly Angling Effort for All Anglers – 2007 ……..……..……..……... 101
Monthly Catch Statistics for All Anglers – 2007 ……..……..…..……..……..... 102
Summary of Species Catch Statistics – 2007 ……..……..…….…… 103
Summary of Fishing Effort and Catch Rates for Intended Species – 2007 …….……..…… 104
Summary of Relative Species Catch Rates Within Target Groups - 2007 ……..…… 105
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 106
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2007 …… 107
Summary of Sociological Questions - 2007 ……....……..……..…… 108

Old Hickory Reservoir

Monthly Angling Effort for All Anglers – 2007 ……..……..……..……... 110
Monthly Catch Statistics for All Anglers – 2007 ……..……..…..……..……..... 111
Summary of Species Catch Statistics – 2007 ……..……..…….…… 112
Summary of Fishing Effort and Catch Rates for Intended Species – 2007 …….……..…… 113
Summary of Relative Species Catch Rates Within Target Groups - 2007 ……..…… 114
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 115
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2007 …… 116
Summary of Sociological Questions - 2007 ……....……..……..…… 117

TWRA Region III

Center Hill Reservoir

Monthly Angling Effort for All Anglers – 2007 ……..……..……..……... 120
Monthly Catch Statistics for All Anglers – 2007 ……..……..…..……..……..... 121
Summary of Species Catch Statistics – 2007 ……..……..…….…… 122
Summary of Fishing Effort and Catch Rates for Intended Species – 2007 …….……..…… 123
Summary of Relative Species Catch Rates Within Target Groups - 2007 ……...…… 124
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 125
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2007 …… 126
Summary of Sociological Questions - 2007 ……....……..……..…… 127

Chickamauga Reservoir

Monthly Angling Effort for All Anglers – 2007 ……..……..……..……... 129
Monthly Catch Statistics for All Anglers – 2007 ……..……..…..……..……..... 130
Summary of Species Catch Statistics – 2007……..……..…….…… 131
Summary of Fishing Effort and Catch Rates for Intended Species – 2007 …….……..…… 132
Summary of Relative Species Catch Rates Within Target Groups - 2007 ……...…… 133
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 134
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2007 …… 135
Summary of Sociological Questions - 2007 ……....……..……..…… 136

Watts Bar Reservoir

Monthly Angling Effort for All Anglers – 2007 ……..……..……..……... 138
Monthly Catch Statistics for All Anglers – 2007 ……..……..…..……..……..... 139
Summary of Species Catch Statistics – 2007 ……..……..…….…… 140
Summary of Fishing Effort and Catch Rates for Intended Species – 2007 …….……..…… 141
Summary of Relative Species Catch Rates Within Target Groups - 2007 ……...…… 142
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 143
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2007 …… 144
Summary of Sociological Questions - 2007 ……....……..……..…… 145

Dale Hollow Reservoir

Monthly Angling Effort for All Anglers – 2007 ……..……..……..……... 147
Monthly Catch Statistics for All Anglers – 2007 ……..……..…..……..……..... 148
Summary of Species Catch Statistics – 2007 ……..……..…….…… 149
Summary of Fishing Effort and Catch Rates for Intended Species – 2007 ……..……..…… 150
Summary of Relative Species Catch Rates Within Target Groups - 2007 ……...…… 151
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 152
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2007 …… 153
Summary of Sociological Questions - 2007 ……....……..……..…… 154

TWRA Region IV

Norris Reservoir

Monthly Angling Effort for All Anglers – 2007……..……..……..……... 157
Monthly Catch Statistics for All Anglers – 2007 ……..……..…..……..……..... 158
Summary of Species Catch Statistics – 2007 …....……..……..…… 159
Summary of Fishing Effort and Catch Rates for Intended Species – 2007 …….……..…… 160
Summary of Relative Species Catch Rates Within Target Groups - 2007 ……...…… 161
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 162
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2007 …… 163
Summary of Sociological Questions - 2007 ……....……..……..…… 164

Douglas Reservoir

Monthly Angling Effort for All Anglers – 2007 ……..……..……..……... 166
Monthly Catch Statistics for All Anglers – 2007 ……..……..…..……..……..... 167
Summary of Species Catch Statistics – 2007 ……..……..…….…… 168
Summary of Fishing Effort and Catch Rates for Intended Species – 2007 …….……..…… 169
Summary of Relative Species Catch Rates Within Target Groups - 2007 ……...…… 170
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 171
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2007 …… 172
Summary of Sociological Questions - 2007 ……....……..……..…… 173

Melton Hill Reservoir

Monthly Angling Effort for All Anglers – 2007 ……..……..……..……... 175
Monthly Catch Statistics for All Anglers – 2007 ……..……..…..……..……..... 176
Summary of Species Catch Statistics – 2007 ……..……..…….…… 177
Summary of Fishing Effort and Catch Rates for Intended Species – 2007 …….……..…… 178
Summary of Relative Species Catch Rates Within Target Groups - 2007 ……...…… 179
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 180
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2007 …… 181
Summary of Sociological Questions - 2007 ……....……..……..…… 182

Tellico Reservoir

Monthly Angling Effort for All Anglers – 2007 ……..……..……..……... 184
Monthly Catch Statistics for All Anglers – 2007..……..……..…..……..……..... 185
Summary of Species Catch Statistics – 2007 ……..……..…….…… 186
Summary of Fishing Effort and Catch Rates for Intended Species – 2007 …….……..…… 187
Summary of Relative Species Catch Rates Within Target Groups - 2007 ……...…… 188
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 189
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2007 …… 190
Summary of Sociological Questions - 2007 ……....……..……..…… 191

Boone Reservoir

Monthly Angling Effort for All Anglers – 2007 ……..……..……..……... 193
Monthly Catch Statistics for All Anglers – 2007 ……..……..…..……..……..... 194
Summary of Species Catch Statistics – 2007 ……..……..…….…… 195
Summary of Fishing Effort and Catch Rates for Intended Species – 2007 …….……..…… 196
Summary of Relative Species Catch Rates Within Target Groups - 2007 ……...…… 197
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 198
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2007 …… 199
Summary of Sociological Questions - 2007 ……....……..……..…… 200

South Holston Reservoir

Monthly Angling Effort for All Anglers – 2007 ……..……..……..……... 202
Monthly Catch Statistics for All Anglers – 2007 ……..……..…..……..……..... 203
Summary of Species Catch Statistics – 2007……..……..…….…… 204
Summary of Fishing Effort and Catch Rates for Intended Species – 2007 …….……..…… 205
Summary of Relative Species Catch Rates Within Target Groups - 2007 ……...…… 206
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 207
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2007 …… 208
Summary of Sociological Questions - 2007 ……....……..……..…… 209

Appendix I. - Field Data Collection Forms……..…… 210

STATEWIDE

STATEWIDE ANGLING EFFORT FOR ALL ANGLERS - 2007

LAKE	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
NORRIS	334986	7.6	9.9	65536	1.9	4.8
WOODS	50715	17.0	13.8	10992	3.0	0.7
DALE HOLLOW	380868	7.4	16.5	61059	2.6	5.4
REELFOOT	455246	11.1	43.7	62521	5.9	6.5
TIMS FORD	80673	6.6	7.6	15238	1.5	1.1
BARKLEY	138072	12.7	7.5	22518	1.3	2.0
CENTER HILL	277219	8.7	15.2	52084	2.8	3.9
SOUTH HOLSTON	121926	5.5	19.2	18866	3.1	1.7
PERCY PRIEST	681397	5.4	48.0	145614	10.3	9.7
OLD HICKORY	1013566	6.3	44.9	218081	9.6	14.4
MELTON HILL	74185	7.7	13.0	19043	3.3	1.1
DOUGLAS	567005	6.2	18.5	109325	3.4	8.1
TELLICO	190446	8.6	11.9	42109	2.7	2.7
BOONE	84098	3.9	18.6	13022	2.9	1.2
CHICKAMAUGA	546093	14.8	15.6	86785	2.6	7.8
WATTS BAR	442133	10.9	11.4	69522	1.9	6.3
PICKWICK	116863	8.4	18.9	16445	2.5	1.7
KENTUCKY	1479834	5.6	13.6	241720	2.3	21.0
STATEWIDE	**7035325**	**2.4**	**19.3**	**1270480**	**3.5**	**100.0**

STATEWIDE ANGLING EFFORT FOR INTENDED SPECIES GROUPS - 2007

INTENDED SPECIES	ANGLER HOURS	RELATIVE STANDARD ERROR	ANGLER TRIPS	PERCENT EFFORT
ANY CATFISH	774345	4.1	134905	11.0
MUSKELLUNGE	3802	24.9	969	0.1
RAINBOW TROUT	1076	50.3	176	0.0
ANY TROUT	15878	14.1	2670	0.2
ANY TEMPERATE BASS	7638	12.5	1185	0.1
WHITE BASS	85705	9.3	16490	1.2
STRIPED BASS	181093	6.7	35672	2.6
CHEROKEE BASS	20654	13.6	4375	0.3
ANY SUNFISH	362359	7.2	62450	5.2
ANY BLACK BASS	1537190	3.4	263266	21.8
SMALLMOUTH BASS	206645	7.5	33480	2.9
SPOTTED BASS	6295	25.2	1277	0.1
LARGEMOUTH BASS	764068	4.7	160796	10.9
ANY CRAPPIE	1841682	4.2	318629	26.2
SAUGER	160657	8.6	29282	2.3
WALLEYE	184802	6.9	35496	2.6
SAUGEYE	1521	74.0	349	0.0
ANY SPECIES	878850	4.0	168772	12.5
OTHER	1076	44.6	228	0.0

STATEWIDE CATCH STATISTICS FOR ALL ANGLERS, BY LAKE - 2007

LAKE	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
NORRIS	252255	15.9	0.75	40.3	51534	30.8	0.15	82.2
WOODS	56489	26.0	1.11	37.8	17322	33.9	0.34	62.3
DALE HOLLOW	222113	9.8	0.58	19.4	78174	12.9	0.21	29.3
REELFOOT	1039245	13.0	2.28	11.7	678239	12.8	1.49	11.3
TIMS FORD	43818	13.5	0.54	36.7	10898	21.4	0.14	65.1
BARKLEY	295280	16.1	2.14	20.9	139481	17.0	1.01	26.6
CENTER HILL	208669	17.4	0.75	41.2	99293	21.3	0.36	59.9
SOUTH HOLSTON	19908	9.7	0.16	27.1	4129	20.6	0.03	75.7
PERCY PRIEST	950918	7.3	1.40	18.2	269412	8.8	0.40	29.4
OLD HICKORY	1694589	9.9	1.67	20.7	386476	12.8	0.38	39.3
MELTON HILL	68363	11.0	0.92	24.2	4540	26.1	0.06	68.4
DOUGLAS	1042552	7.1	1.84	10.3	351154	8.5	0.62	16.7
TELLICO	252212	10.7	1.32	22.4	33013	18.6	0.17	57.1
BOONE	20960	7.8	0.25	23.1	3359	18.3	0.04	54.9
CHICKAMAUGA	1710893	16.3	3.13	13.8	499651	14.3	0.91	22.1
WATTS BAR	1049853	13.0	2.37	15.7	334618	16.9	0.76	27.3
PICKWICK	91419	10.0	0.78	25.8	33003	10.6	0.28	34.7
KENTUCKY	3123034	9.1	2.11	17.0	1473827	9.9	1.00	18.6
STATEWIDE	**12142570**	**4.0**	**1.72**	**18.3**	**4468123**	**4.6**	**0.64**	**25.0**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2007

INTENDED SPECIES=ANY CATFISH

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
NORRIS	2488	79.2	485	0.3	0.11	.	0.11	.	1
WOODS	1869	34.5	436	0.2	0.61	44.4	0.41	75.0	29
DALE HOLLOW	4865	28.6	776	0.6	0.51	16.7	0.51	16.7	91
REELFOOT	846	60.2	154	0.1	0.98	19.0	0.83	20.0	16
TIMS FORD	1391	35.5	247	0.2	0.30	204.4	0.24	256.6	9
BARKLEY	30020	10.2	4982	3.9	0.81	35.5	0.75	35.3	203
CENTER HILL	9376	23.1	1828	1.2	0.37	23.1	0.37	23.1	65
SOUTH HOLSTON	3106	24.5	480	0.4	0.12	.	0.12	.	12
PERCY PRIEST	43636	11.1	9510	5.6	0.32	35.8	0.28	39.3	130
OLD HICKORY	80475	11.1	17640	10.4	0.22	31.5	0.17	37.5	65
MELTON HILL	1877	35.3	460	0.2	0.72	51.4	0.08	0.0	4
DOUGLAS	46155	14.1	8830	6.0	1.03	12.0	0.70	11.9	450
TELLICO	940	70.2	236	0.1	0.00	.	0.00	.	0
BOONE	1978	25.3	305	0.3	0.24	43.5	0.24	43.5	23
CHICKAMAUGA	101168	14.8	16155	13.1	1.85	19.0	1.12	24.0	1633
WATTS BAR	47615	15.9	7393	6.1	1.46	16.5	0.89	17.6	449
PICKWICK	36339	15.4	5287	4.7	0.70	19.1	0.54	21.4	98
KENTUCKY	360201	6.3	59701	46.5	0.52	19.6	0.41	21.0	1222
STATEWIDE	**774345**		**134905**						**4500**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2007

INTENDED SPECIES=MUSKELLUNGE

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
MELTON HILL	3802	24.9	969	100.0	0.02	95.0	0.00	.	0
STATEWIDE	**3802**		**969**						**0**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2007

INTENDED SPECIES=RAINBOW TROUT

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
DALE HOLLOW	708	64.5	118	65.8	0.00	.	0.00	.	0
SOUTH HOLSTON	368	78.9	58	34.2	0.00	.	0.00	.	0
STATEWIDE	**1076**		**176**						**0**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2007

INTENDED SPECIES=ANY TROUT

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
DALE HOLLOW	5494	27.6	1030	34.6	0.19	37.7	0.19	37.7	21
SOUTH HOLSTON	10099	15.7	1574	63.6	0.08	95.5	0.06	100.8	9
TELLICO	285	150.5	66	1.8	0.00	.	0.00	.	0
STATEWIDE	**15878**		**2670**						**30**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2007

INTENDED SPECIES=ANY TEMPERATE BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
BOONE	7638	12.5	1185	100.0	0.05	82.1	0.03	128.2	7
STATEWIDE	**7638**		**1185**						**7**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2007

INTENDED SPECIES=WHITE BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
TIMS FORD	769	44.9	160	0.9	3.76	35.4	0.20	0.0	4
BARKLEY	813	71.8	128	0.9	1.09	.	0.81	.	11
PERCY PRIEST	7174	22.2	1565	8.4	0.86	54.0	0.33	55.6	46
OLD HICKORY	26106	17.4	5968	30.5	1.04	64.6	0.59	59.8	110
MELTON HILL	71	117.2	16	0.1	1.00	.	0.00	.	0
DOUGLAS	14397	20.1	2738	16.8	2.71	17.1	1.12	36.1	321
BOONE	125	91.7	19	0.1	0.00	.	0.00	.	0
CHICKAMAUGA	2105	45.0	334	2.5	1.39	58.7	0.98	34.2	46
WATTS BAR	9157	26.3	1423	10.7	2.88	34.5	1.75	37.2	169
KENTUCKY	24988	19.8	4139	29.2	1.20	29.6	0.65	43.4	117
STATEWIDE	**85705**		**16490**						**824**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2007

INTENDED SPECIES=STRIPED BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
NORRIS	41428	16.9	8174	22.9	0.28	101.1	0.04	163.4	7
TIMS FORD	5003	17.9	941	2.8	0.25	98.3	0.06	52.6	9
PERCY PRIEST	27894	12.2	5913	15.4	0.13	73.9	0.02	158.2	8
OLD HICKORY	45943	13.6	10258	25.4	0.20	104.4	0.09	105.3	18
MELTON HILL	4159	26.2	1165	2.3	0.10	52.8	0.03	173.3	1
TELLICO	983	77.2	242	0.5	0.23	.	0.00	.	0
BOONE	8798	11.5	1358	4.9	0.05	79.6	0.01	140.2	5
CHICKAMAUGA	8908	27.1	1417	4.9	0.44	38.9	0.17	53.2	29
WATTS BAR	24280	20.1	3845	13.4	0.53	39.0	0.14	50.5	32
KENTUCKY	13697	26.3	2359	7.6	0.17	30.3	0.06	76.2	12
STATEWIDE	**181093**		**35672**						**121**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2007

INTENDED SPECIES=CHEROKEE BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
TIMS FORD	665	47.1	136	3.2	0.54	0.0	0.03	0.0	1
PERCY PRIEST	19343	14.3	4121	93.7	0.29	68.1	0.11	77.4	32
OLD HICKORY	386	93.5	78	1.9	0.00	.	0.00	.	0
BOONE	260	77.0	40	1.3	0.42	.	0.13	.	2
STATEWIDE	**20654**		**4375**						**35**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2007

INTENDED SPECIES=ANY SUNFISH

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
NORRIS	21485	23.5	4293	5.9	4.01	40.6	1.47	63.8	62
WOODS	1692	37.0	389	0.5	2.96	64.8	1.59	41.9	162
DALE HOLLOW	17160	16.1	2696	4.7	3.42	19.1	2.35	23.1	649
REELFOOT	125452	17.7	16496	34.6	2.33	5.4	1.82	5.4	3388
TIMS FORD	444	59.7	78	0.1	2.87	.	0.00	.	0
BARKLEY	4865	11.4	823	1.3	7.19	10.8	5.32	8.5	281
CENTER HILL	14652	19.5	2934	4.0	6.97	65.4	4.56	96.6	688
SOUTH HOLSTON	792	56.5	120	0.2	1.52	.	0.35	.	5
PERCY PRIEST	20716	14.8	4504	5.7	1.94	24.8	0.71	47.0	199
OLD HICKORY	70707	11.7	15375	19.5	3.03	29.8	1.19	47.6	413
MELTON HILL	796	45.3	201	0.2	1.80	56.2	0.00	.	0
DOUGLAS	31338	14.9	5936	8.6	5.23	10.7	3.32	14.3	1299
TELLICO	1553	64.5	375	0.4	2.73	.	0.63	.	12
BOONE	1955	25.9	298	0.5	2.16	39.2	0.55	97.0	16
CHICKAMAUGA	3889	40.9	618	1.1	11.30	16.8	6.45	22.9	495
WATTS BAR	860	105.1	128	0.2	8.86	.	3.18	.	14
PICKWICK	1561	90.8	247	0.4	1.81	.	0.00	.	0
KENTUCKY	42442	15.3	6939	11.7	4.22	26.0	2.39	25.6	1069
STATEWIDE	**362359**		**62450**						**8752**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2007

INTENDED SPECIES=ANY BLACK BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
NORRIS	113634	11.2	22098	7.4	0.58	33.7	0.02	105.7	21
WOODS	24004	18.6	5120	1.6	0.64	47.1	0.15	45.0	193
DALE HOLLOW	73017	9.3	11546	4.8	0.46	22.3	0.11	37.3	151
REELFOOT	37790	15.6	5237	2.5	0.61	16.7	0.03	97.5	17
TIMS FORD	48309	7.2	9098	3.1	0.31	23.8	0.03	64.6	58
BARKLEY	42955	14.1	6986	2.8	1.30	16.0	0.15	40.1	97
CENTER HILL	115056	10.4	20955	7.5	0.58	21.3	0.22	29.0	313
SOUTH HOLSTON	64527	6.8	9989	4.2	0.26	16.5	0.01	105.7	31
MELTON HILL	23804	11.0	6161	1.5	0.97	31.9	0.00	248.2	3
DOUGLAS	116281	8.3	21846	7.6	0.91	7.2	0.03	40.6	110
TELLICO	80036	10.5	17509	5.2	1.15	17.1	0.02	92.4	19
BOONE	47724	5.3	7387	3.1	0.31	12.7	0.01	71.8	38
CHICKAMAUGA	231023	14.7	36655	15.0	1.12	11.4	0.12	57.2	369
WATTS BAR	197176	12.0	30774	12.8	0.88	13.0	0.07	43.2	159
PICKWICK	55813	10.2	7882	3.6	1.08	29.1	0.14	99.8	85
KENTUCKY	266041	7.1	44023	17.3	1.01	18.1	0.17	32.0	453
STATEWIDE	**1537190**		**263266**						**2117**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2007

INTENDED SPECIES=SMALLMOUTH BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
NORRIS	28619	22.2	5375	13.8	0.44	26.2	0.01	194.1	5
DALE HOLLOW	159490	8.7	24663	77.2	0.46	14.0	0.01	59.0	47
TIMS FORD	193	82.2	33	0.1	0.00	.	0.00	.	0
CENTER HILL	3392	42.8	601	1.6	0.09	0.0	0.06	0.0	2
SOUTH HOLSTON	4376	21.7	669	2.1	0.25	27.9	0.14	61.2	17
PERCY PRIEST	6248	23.6	1328	3.0	0.28	94.4	0.04	193.7	1
OLD HICKORY	2071	59.2	476	1.0	0.10	.	0.00	.	0
BOONE	1628	24.7	258	0.8	0.22	25.7	0.12	42.0	12
CHICKAMAUGA	125	147.3	19	0.1	0.00	.	0.00	.	0
PICKWICK	503	107.7	58	0.2	0.63	.	0.00	.	0
STATEWIDE	**206645**		**33480**						**84**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2007

INTENDED SPECIES=SPOTTED BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
DALE HOLLOW	313	100.6	50	5.0	1.79	.	1.19	.	10
CENTER HILL	5475	25.1	1147	87.0	0.53	52.5	0.46	54.5	36
KENTUCKY	507	144.2	80	8.1	0.00	.	0.00	.	0
STATEWIDE	**6295**		**1277**						**46**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2007

INTENDED SPECIES=LARGEMOUTH BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
NORRIS	339	146.0	65	0.0	0.29	.	0.00	.	0
WOODS	126	135.0	30	0.0	0.89	.	0.00	.	0
DALE HOLLOW	2295	36.6	359	0.3	0.67	60.0	0.25	83.2	7
SOUTH HOLSTON	280	97.9	42	0.0	0.25	.	0.25	.	2
PERCY PRIEST	246207	6.1	52599	32.2	0.66	14.4	0.05	32.2	213
OLD HICKORY	422354	7.5	89860	55.3	0.88	14.2	0.07	25.8	229
DOUGLAS	88444	11.0	17241	11.6	1.13	7.4	0.01	155.8	29
PICKWICK	1045	107.7	144	0.1	1.00	.	0.00	.	0
KENTUCKY	2978	63.1	456	0.4	0.69	47.2	0.18	72.5	5
STATEWIDE	**764068**		**160796**						**485**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2007

INTENDED SPECIES=ANY CRAPPIE

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
NORRIS	20986	21.7	4040	1.1	0.83	159.5	0.45	168.7	73
WOODS	18926	27.4	4066	1.0	0.75	38.9	0.39	37.4	286
DALE HOLLOW	39224	11.9	6077	2.1	0.96	32.3	0.55	34.2	353
REELFOOT	278869	11.2	38963	15.1	2.13	10.0	1.40	9.0	4900
TIMS FORD	12197	12.9	2324	0.7	0.52	53.3	0.35	57.9	113
BARKLEY	51224	23.5	8223	2.8	3.04	17.4	1.79	17.6	990
CENTER HILL	40376	15.8	7211	2.2	1.67	41.9	0.59	46.3	172
SOUTH HOLSTON	7564	17.3	1174	0.4	0.13	78.6	0.09	79.0	12
PERCY PRIEST	156386	7.2	32933	8.5	1.23	17.4	0.52	17.6	1298
OLD HICKORY	134570	12.6	27483	7.3	1.50	20.4	0.56	22.7	504
MELTON HILL	14995	14.0	3730	0.8	0.95	27.1	0.24	56.4	87
DOUGLAS	227504	7.4	44492	12.4	1.89	13.5	0.85	23.9	3272
TELLICO	63333	9.5	13855	3.4	1.79	21.9	0.55	31.2	419
BOONE	8783	11.7	1361	0.5	0.14	84.0	0.09	99.3	20
CHICKAMAUGA	70513	20.7	11123	3.8	2.70	20.4	1.02	19.3	1057
WATTS BAR	43334	24.6	6839	2.4	1.78	19.7	0.87	21.9	367
PICKWICK	12324	19.2	1546	0.7	0.93	16.9	0.80	31.0	134
KENTUCKY	640574	9.3	103189	34.8	2.74	10.9	1.50	11.1	9863
STATEWIDE	**1841682**		**318629**						**23920**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2007

INTENDED SPECIES=SAUGER

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
OLD HICKORY	42384	15.9	9527	26.4	1.57	70.3	0.17	56.3	69
DOUGLAS	15001	19.5	2972	9.3	0.85	22.4	0.21	30.5	69
CHICKAMAUGA	491	88.9	78	0.3	1.23	.	0.19	.	2
WATTS BAR	10299	27.6	1730	6.4	1.37	25.1	0.44	25.2	74
PICKWICK	252	156.4	29	0.2	0.75	.	0.13	.	1
KENTUCKY	92230	12.3	14946	57.4	1.28	14.0	0.48	13.8	1049
STATEWIDE	**160657**		**29282**						**1264**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2007

INTENDED SPECIES=WALLEYE

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
NORRIS	45729	15.2	9053	24.7	0.06	51.2	0.05	56.7	16
DALE HOLLOW	37049	16.1	6876	20.0	0.31	20.0	0.26	20.5	214
TIMS FORD	4192	21.4	797	2.3	0.11	69.7	0.04	78.9	10
CENTER HILL	55678	14.1	10992	30.1	0.16	38.1	0.09	42.1	63
SOUTH HOLSTON	21543	10.9	3335	11.7	0.04	77.4	0.04	85.8	18
OLD HICKORY	12910	23.6	2905	7.0	0.06	100.4	0.04	177.3	4
DOUGLAS	5178	28.7	948	2.8	1.21	16.0	0.26	28.0	21
TELLICO	2523	38.4	590	1.4	0.17	72.1	0.02	0.0	3
STATEWIDE	**184802**		**35496**						**349**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2007

INTENDED SPECIES=SAUGEYE

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
OLD HICKORY	1521	74.0	349	100.0	0.00	.	0.00	.	0
STATEWIDE	**1521**		**349**						**0**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2007

INTENDED SPECIES=ANY SPECIES

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
NORRIS	60278	14.4	11954	6.9	0.65	102.8	0.10	128.0	33
WOODS	4098	24.3	948	0.5	0.74	27.3	0.17	61.8	32
DALE HOLLOW	41254	13.0	6872	4.7	0.26	92.2	0.14	103.9	88
REELFOOT	12288	24.3	1669	1.4	0.38	108.7	0.21	101.3	48
TIMS FORD	7514	16.0	1420	0.9	0.45	50.1	0.12	109.4	24
BARKLEY	8199	9.9	1378	0.9	2.05	43.8	0.80	56.6	40
CENTER HILL	33211	13.7	6415	3.8	0.09	131.6	0.07	159.7	11
SOUTH HOLSTON	9271	15.9	1427	1.1	0.11	102.9	0.03	188.4	5
PERCY PRIEST	153163	7.0	32997	17.4	1.10	29.3	0.32	33.1	492
OLD HICKORY	174139	8.5	38160	19.8	1.48	28.0	0.32	48.5	234
MELTON HILL	24517	11.0	6297	2.8	0.85	26.5	0.04	133.0	17
DOUGLAS	22707	15.2	4323	2.6	0.93	28.8	0.56	30.2	92
TELLICO	40795	14.7	9239	4.6	1.20	24.8	0.16	107.1	36
BOONE	4927	15.6	764	0.6	0.26	90.4	0.14	132.9	21
CHICKAMAUGA	127873	17.6	20378	14.6	5.31	19.1	1.89	31.1	2733
WATTS BAR	109413	11.9	17390	12.4	3.52	23.7	1.37	33.8	984
PICKWICK	9026	34.5	1251	1.0	1.09	38.8	0.45	67.9	30
KENTUCKY	36177	16.0	5890	4.1	1.90	73.7	0.77	94.6	178
STATEWIDE	**878850**		**168772**						**5098**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2007

INTENDED SPECIES=OTHER

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
PERCY PRIEST	633	66.0	144	58.8	0.00	.	0.00	.	0
MELTON HILL	164	94.0	40	15.2	0.00	.	0.00	.	0
BOONE	279	63.9	44	25.9	0.00	.	0.00	.	0
STATEWIDE	**1076**		**228**						**0**

STATEWIDE SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS, BY LAKE - 2007

LAKE	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
NORRIS	1351870	1091540	2438810	265
WOODS	48460	73530	121990	2
DALE HOLLOW	2117280	1362220	3479300	1272
REELFOOT	1922350	473150	2395520	1040
TIMS FORD	500380	761480	1261860	12
BARKLEY	503050	324750	822900	287
CENTER HILL	977450	772720	1738850	607
SOUTH HOLSTON	216640	153400	370060	602
PERCY PRIEST	1956150	1091140	3047300	393
OLD HICKORY	3619210	2099240	5718480	386
MELTON HILL	258360	154410	412770	419
DOUGLAS	1348060	1228340	2576400	1569
TELLICO	679630	418880	1098490	531
BOONE	166960	104530	271500	715
CHICKAMAUGA	1827610	1434470	3262090	1161
WATTS BAR	1600360	1290650	2891010	691
PICKWICK	373050	30890	403930	139
KENTUCKY	4080270	1970410	6049830	2158
TOTAL	**23547140**	**14835750**	**38361090**	**12249**

STATEWIDE SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS, BY INTENDED SPECIES - 2007

TARGET	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBR OF INTERVIEWS
ANY CATFISH	1656080	904760	2559990	1111
MUSKELLUNGE	16960	21260	38210	35
RAINBOW TROUT	2540	2520	5050	5
ANY TROUT	56000	38660	94660	68
ANY TEMPERATE BASS	13990	9530	23520	59
WHITE BASS	195710	114040	305840	119
STRIPED BASS	624790	548590	1173380	256
CHEROKEE BASS	46290	59560	105850	24
ANY SUNFISH	1124510	590780	1711570	608
ANY BLACK BASS	7373490	5023850	12397350	3766
SMALLMOUTH BASS	1261400	773260	2026930	596
SPOTTED BASS	26840	18770	44130	18
LARGEMOUTH BASS	3438930	1959150	5398080	498
ANY CRAPPIE	4613650	2681200	7291900	3241
SAUGER	453190	172000	625200	260
WALLEYE	685850	496390	1182230	463
ANY SPECIES	1955810	1420590	3375240	1116
OTHER	1110	840	1960	6
TOTAL	**23547140**	**14835750**	**38361090**	**12249**

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MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2007

LAKE=KENTUCKY

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	24306	24.8	0.2	4751	0.0	1.6
02 FEBRUARY	40287	24.5	0.4	6048	0.1	2.7
03 MARCH	252077	22.9	2.3	39043	0.4	17.0
04 APRIL	304124	12.7	2.8	48221	0.4	20.6
05 MAY	238594	9.0	2.2	38341	0.4	16.1
06 JUNE	156155	13.5	1.4	25015	0.2	10.6
07 JULY	100141	17.8	0.9	18881	0.2	6.8
08 AUGUST	48699	24.5	0.5	9023	0.1	3.3
09 SEPTEMBER	111668	15.1	1.0	18521	0.2	7.5
10 OCTOBER	86110	9.2	0.8	14019	0.1	5.8
11 NOVEMBER	59759	17.0	0.6	10044	0.1	4.0
12 DECEMBER	57914	11.0	0.5	9813	0.1	3.9
TOTAL	**1479834**			**241720**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2007

LAKE=KENTUCKY

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	34028	34.5	1.40	23.2	14584	40.2	0.60	30.9
02 FEBRUARY	77754	32.3	1.93	20.4	25381	31.2	0.63	18.7
03 MARCH	751189	26.0	2.98	12.0	388199	26.4	1.54	12.8
04 APRIL	681238	19.2	2.24	14.3	337578	21.3	1.11	17.0
05 MAY	512977	20.3	2.15	18.1	238594	22.6	1.00	20.6
06 JUNE	231109	34.1	1.48	31.0	87447	39.7	0.56	36.8
07 JULY	135190	29.7	1.35	23.3	45063	31.6	0.45	25.7
08 AUGUST	41394	29.2	0.85	15.3	15097	34.0	0.31	23.3
09 SEPTEMBER	190952	26.8	1.71	21.9	80401	27.6	0.72	22.8
10 OCTOBER	198914	18.9	2.31	16.4	91277	19.9	1.06	17.5
11 NOVEMBER	154776	20.5	2.59	11.3	81870	23.3	1.37	15.7
12 DECEMBER	113511	17.8	1.96	14.0	68339	16.9	1.18	12.9
TOTAL	**3123032**				**1473830**			

SUMMARY OF SPECIES CATCH STATISTICS - 2007

LAKE=KENTUCKY

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
RIVER REDHORSE	195	1490.4	0.0	0	195	1490.4	0.0	0	0.0	2.10	1
BLUE CATFISH	131322	21.8	4.2	129634	86896	28.7	5.9	85501	33.8	1.92	809
CHANNEL CATFISH	66759	47.9	2.1	64618	55851	55.0	3.8	54324	16.3	2.43	438
FLATHEAD CATFISH	3749	221.6	0.1	3260	161	860.1	0.0	161	95.7	1.30	1
WHITE BASS	46867	52.7	1.5	27998	16738	60.1	1.1	13413	64.3	0.75	146
YELLOW BASS	64375	39.4	2.1	1922	0	.	0.0	0	100.0	.	0
STRIPED BASS	9318	145.2	0.3	8305	2886	222.9	0.2	2165	69.0	10.83	16
CHEROKEE BASS	161	1922.8	0.0	0	161	1922.8	0.0	0	0.0	16.70	1
BLUEGILL	230568	23.9	7.4	168252	99506	33.8	6.7	93554	56.8	0.27	921
REDEAR SUNFISH	49692	75.7	1.6	48891	34594	88.1	2.3	34262	30.4	0.52	305
SMALLMOUTH BASS	3896	300.1	0.1	2922	166	1644.2	0.0	83	95.7	2.20	2
SPOTTED BASS	55480	39.3	1.8	52465	13206	71.0	0.9	12126	76.2	1.59	100
LARGEMOUTH BASS	280806	13.6	9.0	270323	21058	36.4	1.4	20766	92.5	2.75	138
WHITE CRAPPIE	1346457	8.6	43.1	1334285	721899	12.5	48.9	716504	46.4	0.71	6086
BLACK CRAPPIE	699302	10.5	22.4	695662	368952	14.4	25.0	365955	47.2	0.79	3779
BLACKNOSE CRAPPIE	195	3946.8	0.0	195	195	3946.8	0.0	195	0.0	0.80	1
YELLOW PERCH	226	1011.2	0.0	113	203	1109.3	0.0	203	10.2	0.40	1
SAUGER	122172	20.6	3.9	120782	52341	20.6	3.5	51749	57.2	1.27	1061
FRESHWATER DRUM	9097	258.3	0.3	0	0	.	0.0	0	100.0	.	0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2007

LAKE=KENTUCKY

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	360201	6.3	59701	24.3	0.52	19.6	0.41	21.0	488
WHITE BASS	24988	19.8	4139	1.7	1.20	29.6	0.65	43.4	38
STRIPED BASS	13697	26.3	2359	0.9	0.17	30.3	0.06	76.2	21
ANY SUNFISH	42442	15.3	6939	2.9	4.22	26.0	2.39	25.6	48
ANY BLACK BASS	266041	7.1	44023	18.0	1.01	18.1	0.17	32.0	483
SPOTTED BASS	507	144.2	80	0.0	0.00		0.00		1
LARGEMOUTH BASS	2978	63.1	456	0.2	0.69	47.2	0.18	72.5	5
ANY CRAPPIE	640574	9.3	103189	43.3	2.74	10.9	1.50	11.1	918
SAUGER	92230	12.3	14946	6.2	1.28	14.0	0.48	13.8	204
ANY SPECIES	36177	16.0	5890	2.4	1.90	73.7	0.77	94.6	46
TOTAL	**1479835**		**241722**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2007

LAKE=KENTUCKY

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.34	0.25
	CHANNEL CATFISH	0.17	0.16
	FLATHEAD CATFISH	0.01	0.00
ANY SUNFISH			
	BLUEGILL	3.27	1.75
	REDEAR SUNFISH	0.95	0.64
ANY BLACK BASS			
	SMALLMOUTH BASS	0.01	0.00
	SPOTTED BASS	0.19	0.04
	LARGEMOUTH BASS	1.00	0.08
ANY CRAPPIE			
	WHITE CRAPPIE	1.80	0.99
	BLACK CRAPPIE	0.94	0.51
	BLACKNOSE CRAPPIE	0.00	0.00

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=KENTUCKY

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	2.17	3
02 FEBRUARY	0		0	0.93	5
03 MARCH	56	1.15	6	1.00	18
04 APRIL	47	0.75	12	0.74	30
05 MAY	33	1.13	17	1.03	67
06 JUNE	34	0.96	21	0.92	61
07 JULY	42	1.36	8	1.09	41
08 AUGUST	46	0.82	16	0.73	38
09 SEPTEMBER	46	1.03	15	0.73	36
10 OCTOBER	31	0.84	13	1.85	48
11 NOVEMBER	45	0.84	4	1.61	21
12 DECEMBER	0		0	1.03	4

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2007

LAKE=KENTUCKY

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	593610	251850	844610	479
WHITE BASS	54030	10390	64420	35
STRIPED BASS	24660	13680	38340	21
ANY SUNFISH	112940	67230	180160	47
ANY BLACK BASS	1527540	636820	2164360	475
SPOTTED BASS	800	0	800	1
LARGEMOUTH BASS	11390	4560	15950	5
ANY CRAPPIE	1454030	906010	2360050	878
SAUGER	232970	37430	270400	174
ANY SPECIES	68300	42440	110740	43
TOTAL	**4080270**	**1970410**	**6049830**	**2158**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2007

LAKE=KENTUCKY

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	3994	93
OTHERS	302	7

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BENTON	821	20.7
CARROLL	292	7.4
HENRY	732	18.5
HOUSTON	220	5.5
HUMPHREYS	348	8.8
OTHERS IN TN	1542	38.9
OUT-OF-STATE	10	0.3

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	2781	65.2
B) 26-100	1293	30.3
C) 101-250	68	1.6
D) > 250	123	2.9

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	2137	97.4
B) VACATION	22	1.0
C) BUSINESS	35	1.6

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	1960	89.3
B) 2-5	166	7.6
C) 6-10	56	2.6
D) 11-15	7	0.3
E) 16-20	1	0.0
F) >20	5	0.2

KENTUCKY #1

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MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2007

LAKE=KENTUCKY #1 NORTH

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	5099	31.3	0.0	976	0.0	0.6
02 FEBRUARY	8745	36.4	0.1	1517	0.0	1.0
03 MARCH	209122	27.2	1.9	32377	0.3	23.1
04 APRIL	246492	14.5	2.3	38725	0.4	27.2
05 MAY	114012	9.7	1.1	19281	0.2	12.6
06 JUNE	80460	24.4	0.7	13380	0.1	8.9
07 JULY	62013	24.4	0.6	11449	0.1	6.8
08 AUGUST	24648	38.2	0.2	4809	0.0	2.7
09 SEPTEMBER	53345	16.4	0.5	9324	0.1	5.9
10 OCTOBER	47762	13.3	0.4	7863	0.1	5.3
11 NOVEMBER	30109	16.6	0.3	5168	0.0	3.3
12 DECEMBER	25132	12.6	0.2	4521	0.0	2.8
TOTAL	**906939**			**149390**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2007

LAKE=KENTUCKY #1 NORTH

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	10504	36.8	2.06	18.5	4538	39.0	0.89	22.3
02 FEBRUARY	23262	43.4	2.66	22.2	10057	42.0	1.15	19.7
03 MARCH	696376	29.7	3.33	11.5	359690	30.0	1.72	12.3
04 APRIL	579256	19.7	2.35	13.2	290861	21.1	1.18	15.2
05 MAY	370539	19.5	3.25	16.9	182419	20.7	1.60	18.2
06 JUNE	167357	39.6	2.08	30.4	65173	43.1	0.81	34.6
07 JULY	96120	33.7	1.55	22.5	33487	35.4	0.54	24.9
08 AUGUST	20951	40.2	0.85	11.7	8873	46.5	0.36	24.9
09 SEPTEMBER	91220	28.5	1.71	23.0	42143	26.6	0.79	20.7
10 OCTOBER	140898	20.9	2.95	16.0	77852	20.1	1.63	14.9
11 NOVEMBER	105382	19.7	3.50	10.6	59917	20.9	1.99	12.6
12 DECEMBER	79166	17.8	3.15	12.6	48756	16.9	1.94	11.2
TOTAL	**2381031**				**1183766**			

SUMMARY OF SPECIES CATCH STATISTICS - 2007

LAKE=KENTUCKY #1 NORTH

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
BLUE CATFISH	38638	56.1	1.6	37918	35558	59.1	3.0	34843	8.0	1.46	496
CHANNEL CATFISH	24039	119.8	1.0	23204	23241	123.0	2.0	22503	3.3	2.15	251
FLATHEAD CATFISH	119	1628.4	0.0	0	0	.	0.0	0	100.0	.	0
WHITE BASS	10940	172.9	0.5	4558	3219	171.7	0.3	2714	70.6	0.68	51
YELLOW BASS	64375	39.4	2.7	1922	0	.	0.0	0	100.0	.	0
STRIPED BASS	168	2083.6	0.0	84	0	.	0.0	0	100.0	.	0
BLUEGILL	173673	28.7	7.3	127137	77390	40.4	6.5	76452	55.4	0.26	793
REDEAR SUNFISH	44202	80.6	1.9	44093	32031	92.0	2.7	31924	27.5	0.53	292
SMALLMOUTH BASS	1192	635.8	0.1	1022	166	1644.2	0.0	83	86.1	2.20	2
SPOTTED BASS	5759	186.2	0.2	5759	0	.	0.0	0	100.0	.	0
LARGEMOUTH BASS	121392	25.5	5.1	116650	1156	242.6	0.1	1156	99.0	2.39	11
WHITE CRAPPIE	1174335	9.6	49.3	1165556	632889	14.0	53.5	629155	46.1	0.72	5525
BLACK CRAPPIE	694138	10.5	29.2	690710	364835	14.4	30.8	362039	47.4	0.79	3750
BLACKNOSE CRAPPIE	195	3946.8	0.0	195	195	3946.8	0.0	195	0.0	0.80	1
YELLOW PERCH	23	1696.4	0.0	0	0	.	0.0	0	100.0	.	0
SAUGER	20997	70.0	0.9	20997	12599	39.6	1.1	12599	40.0	1.42	343
FRESHWATER DRUM	6354	316.9	0.3	0	0	.	0.0	0	100.0	.	0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2007

LAKE=KENTUCKY #1 NORTH

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	157268	9.1	26736	17.3	0.46	20.8	0.44	20.6	270
WHITE BASS	6216	33.6	1170	0.7	0.77	45.6	0.66	44.2	14
STRIPED BASS	614	102.0	113	0.1	0.00		0.00		1
ANY SUNFISH	30977	17.5	5138	3.4	4.57	17.0	3.17	20.3	39
ANY BLACK BASS	140057	10.1	23755	15.4	0.91	18.1	0.15	25.6	277
ANY CRAPPIE	533796	11.0	86006	58.9	3.93	7.5	2.15	8.1	784
SAUGER	16584	17.2	2919	1.8	1.41	11.1	0.83	11.0	74
ANY SPECIES	21431	20.0	3555	2.4	1.70	44.8	0.85	63.7	28
TOTAL	**906943**		**149392**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2007

LAKE=KENTUCKY #1 NORTH

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.29	0.27
	CHANNEL CATFISH	0.17	0.17
	FLATHEAD CATFISH	0.00	0.00
ANY SUNFISH			
	BLUEGILL	3.39	2.24
	REDEAR SUNFISH	1.18	0.93
ANY BLACK BASS			
	SMALLMOUTH BASS	0.01	0.00
	SPOTTED BASS	0.04	0.00
	LARGEMOUTH BASS	0.83	0.01
ANY CRAPPIE			
	WHITE CRAPPIE	2.47	1.36
	BLACK CRAPPIE	1.46	0.79
	BLACKNOSE CRAPPIE	0.00	0.00

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=KENTUCKY #1 NORTH

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	1.00	1
02 FEBRUARY	0		0	0.61	3
03 MARCH	56	1.15	6	0.81	11
04 APRIL	53	0.71	6	0.44	14
05 MAY	46	1.13	11	1.12	34
06 JUNE	34	1.37	10	1.08	41
07 JULY	42	1.36	8	0.93	31
08 AUGUST	46	0.89	8	0.64	26
09 SEPTEMBER	16	1.29	7	0.34	22
10 OCTOBER	27	1.05	3	0.97	14
11 NOVEMBER	45	0.84	4	1.07	12

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2007

LAKE=KENTUCKY #1 NORTH

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	326790	208750	534700	261
WHITE BASS	11000	8810	19810	11
STRIPED BASS	2270	1130	3400	1
ANY SUNFISH	101460	63550	165010	38
ANY BLACK BASS	844670	632000	1476670	270
ANY CRAPPIE	1308680	859410	2168090	744
SAUGER	48080	34220	82300	73
ANY SPECIES	50010	32260	82270	27
TOTAL	**2692960**	**1840130**	**4532250**	**1425**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2007

LAKE=KENTUCKY #1 NORTH

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	2669	92.8
OTHERS	206	7.2

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BENTON	609	22.9
CARROLL	230	8.7
GIBSON	159	6.0
HENRY	732	27.5
HOUSTON	220	8.3
HUMPHREYS	192	7.2
MONTGOMERY	135	5.1
OTHERS IN TN	372	14.0
OUT-OF-STATE	9	0.3

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	1806	63.0
B) 26-100	893	31.2
C) 101-250	50	1.7
D) > 250	117	4.1

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	1446	99.7
B) VACATION	5	0.3

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	1280	88.1
B) 2-5	105	7.2
C) 6-10	56	3.9
D) 11-15	7	0.5
E) 16-20	1	0.1
F) >20	4	0.3

KENTUCKY #2

SOUTH

RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2007

LAKE=KENTUCKY #2 SOUTH

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	19206	30.3	0.2	3774	0.0	3.4
02 FEBRUARY	31542	29.6	0.3	4531	0.0	5.5
03 MARCH	42955	22.6	0.4	6666	0.1	7.5
04 APRIL	57632	25.2	0.5	9496	0.1	10.1
05 MAY	124582	14.8	1.2	19060	0.2	21.7
06 JUNE	75694	10.3	0.7	11635	0.1	13.2
07 JULY	38128	24.4	0.4	7432	0.1	6.7
08 AUGUST	24051	30.4	0.2	4214	0.0	4.2
09 SEPTEMBER	58323	24.7	0.5	9197	0.1	10.2
10 OCTOBER	38348	12.3	0.4	6156	0.1	6.7
11 NOVEMBER	29650	29.7	0.3	4876	0.0	5.2
12 DECEMBER	32782	16.8	0.3	5292	0.0	5.7
TOTAL	**572893**			**92329**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2007

LAKE=KENTUCKY #2 SOUTH

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	23623	40.1	1.23	25.1	9987	47.3	0.52	34.7
02 FEBRUARY	54568	35.3	1.73	18.4	15456	32.3	0.49	12.5
03 MARCH	53694	27.4	1.25	15.1	29209	27.8	0.68	15.7
04 APRIL	100856	32.9	1.75	20.4	46106	38.0	0.80	27.6
05 MAY	143269	18.2	1.15	10.5	57308	20.4	0.46	13.9
06 JUNE	63583	15.8	0.84	12.0	22708	25.4	0.30	23.1
07 JULY	39272	35.1	1.03	24.5	11820	35.5	0.31	25.0
08 AUGUST	20684	35.9	0.86	18.2	6013	35.8	0.25	18.1
09 SEPTEMBER	99732	32.8	1.71	20.9	38493	35.8	0.66	25.1
10 OCTOBER	58289	18.9	1.52	14.3	13805	21.5	0.36	17.5
11 NOVEMBER	49516	32.0	1.67	11.2	21941	38.3	0.74	23.2
12 DECEMBER	34093	19.9	1.04	10.6	19341	20.0	0.59	10.7
TOTAL	**741179**				**292187**			

SUMMARY OF SPECIES CATCH STATISTICS - 2007

LAKE=KENTUCKY #2 SOUTH

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
RIVER REDHORSE	195	1490.4	0.0	0	195	1490.4	0.1	0	0.0	2.10	1
BLUE CATFISH	92684	20.1	12.5	92012	51337	26.1	17.6	50845	44.6	2.66	313
CHANNEL CATFISH	42721	32.6	5.8	41475	32611	34.4	11.2	31913	23.7	2.81	187
FLATHEAD CATFISH	3630	222.6	0.5	3630	161	860.1	0.1	161	95.6	1.30	1
WHITE BASS	35924	44.2	4.9	24401	13519	62.2	4.6	10531	62.4	0.79	95
STRIPED BASS	9150	142.9	1.2	8318	2886	222.9	1.0	2165	68.5	10.83	16
CHEROKEE BASS	161	1922.8	0.0	0	161	1922.8	0.1	0	0.0	16.70	1
BLUEGILL	56893	41.5	7.7	40798	22116	56.3	7.6	13995	61.1	0.30	128
REDEAR SUNFISH	5490	219.8	0.7	4270	2564	302.1	0.9	2170	53.3	0.52	13
SMALLMOUTH BASS	2703	329.4	0.4	1802	0	.	0.0	0	100.0	.	0
SPOTTED BASS	49718	38.2	6.7	46531	13206	71.0	4.5	12085	73.4	1.59	100
LARGEMOUTH BASS	159414	13.9	21.5	153861	19902	35.8	6.8	19256	87.5	2.78	127
WHITE CRAPPIE	172122	14.7	23.2	168031	89011	18.9	30.5	86948	48.3	0.61	561
BLACK CRAPPIE	5166	180.7	0.7	4914	4119	183.9	1.4	3862	20.3	0.85	29
YELLOW PERCH	203	1109.3	0.0	203	203	1109.3	0.1	203	0.0	0.40	1
SAUGER	101177	20.2	13.7	99745	39743	24.1	13.6	39079	60.7	1.20	718
FRESHWATER DRUM	2742	441.5	0.4	0	0	.	0.0	0	100.0	.	0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2007

LAKE=KENTUCKY #2 SOUTH

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	202933	8.6	32965	35.4	0.55	19.3	0.35	22.8	218
WHITE BASS	18772	23.9	2969	3.3	1.34	26.5	0.65	43.4	24
STRIPED BASS	13083	27.1	2245	2.3	0.22	24.9	0.07	66.4	20
ANY SUNFISH	11465	31.2	1801	2.0	3.61	35.0	1.40	46.5	9
ANY BLACK BASS	125984	9.9	20270	22.0	1.13	18.1	0.20	31.9	206
SPOTTED BASS	507	144.2	80	0.1	0.00		0.00		1
LARGEMOUTH BASS	2978	63.1	456	0.5	0.69	47.2	0.18	72.5	5
ANY CRAPPIE	106778	11.2	17185	18.6	1.34	22.5	0.71	24.9	134
SAUGER	75646	14.5	12030	13.2	1.40	11.7	0.50	11.0	130
ANY SPECIES	14746	26.6	2334	2.6	1.61	57.1	0.42	97.9	18
TOTAL	**572892**		**92335**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2007

LAKE=KENTUCKY #2 SOUTH

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.37	0.21
	CHANNEL CATFISH	0.17	0.13
	FLATHEAD CATFISH	0.01	0.00
ANY SUNFISH			
	BLUEGILL	3.27	1.21
	REDEAR SUNFISH	0.34	0.19
ANY BLACK BASS			
	SMALLMOUTH BASS	0.01	0.00
	SPOTTED BASS	0.36	0.09
	LARGEMOUTH BASS	1.19	0.15
ANY CRAPPIE			
	WHITE CRAPPIE	1.30	0.68
	BLACK CRAPPIE	0.04	0.03

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=KENTUCKY #2 SOUTH

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	2.75	2
02 FEBRUARY	0		0	1.40	2
03 MARCH	0		0	1.30	7
04 APRIL	40	0.78	6	1.00	16
05 MAY	9	1.14	6	0.93	33
06 JUNE	33	0.59	11	0.59	20
07 JULY	0		0	1.57	10
08 AUGUST	47	0.74	8	0.92	12
09 SEPTEMBER	71	0.80	8	1.33	14
10 OCTOBER	32	0.78	10	2.21	34
11 NOVEMBER	0		0	2.32	9
12 DECEMBER	0		0	1.03	4

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2007

LAKE=KENTUCKY #2 SOUTH

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	266820	43100	309920	218
WHITE BASS	43030	1570	44600	24
STRIPED BASS	22390	12550	34940	20
ANY SUNFISH	11480	3680	15150	9
ANY BLACK BASS	682870	4820	687690	205
SPOTTED BASS	800	0	800	1
LARGEMOUTH BASS	11390	4560	15950	5
ANY CRAPPIE	145350	46610	191960	134
SAUGER	184890	3210	188100	101
ANY SPECIES	18290	10180	28470	16
TOTAL	**1387310**	**130280**	**1517580**	**733**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2007

LAKE=KENTUCKY #2 SOUTH

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
MS	86	6.1
TN	1325	93.2
OTHERS	10	0.7

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BENTON	212	16.2
DECATUR	95	7.3
DICKSON	75	5.7
HARDIN	94	7.2
HUMPHREYS	156	11.9
MADISON	169	12.9
PERRY	117	9.0
OTHERS IN TN	388	29.7
OUT-OF-STATE	1	0.1

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	975	69.7
B) 26-100	400	28.6
C) 101-250	18	1.3
D) > 250	6	0.4

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	691	93.0
B) VACATION	17	2.3
C) BUSINESS	35	4.7

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	680	91.6
B) 2-5	61	8.2
F) >20	1	0.1

BARKLEY
RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2007

LAKE=BARKLEY

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	666	.	0.0	121	0.0	0.5
02 FEBRUARY	1859	.	0.1	353	0.0	1.3
03 MARCH	21405	62.5	1.2	3213	0.2	15.5
04 APRIL	19746	51.2	1.1	3179	0.2	14.3
05 MAY	31792	.	1.7	5324	0.3	23.0
06 JUNE	15213	2.6	0.8	2383	0.1	11.0
07 JULY	7891	16.9	0.4	1361	0.1	5.7
08 AUGUST	8857	.	0.5	1662	0.1	6.4
09 SEPTEMBER	9825	28.3	0.5	1597	0.1	7.1
10 OCTOBER	10107	33.2	0.6	1548	0.1	7.3
11 NOVEMBER	10147	23.7	0.6	1651	0.1	7.3
12 DECEMBER	564	.	0.0	126	0.0	0.4
TOTAL	**138072**			**22518**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2007

LAKE=BARKLEY

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	819	.	1.23	.	526	.	0.79	.
02 FEBRUARY	6283	.	3.38	.	2528	.	1.36	.
03 MARCH	63145	68.2	2.95	23.3	30395	68.0	1.42	22.6
04 APRIL	27249	51.4	1.38	3.9	13822	51.2	0.70	0.8
05 MAY	75029	.	2.36	.	40376	.	1.27	.
06 JUNE	29361	27.7	1.93	27.5	12323	56.1	0.81	56.0
07 JULY	17597	30.3	2.23	24.7	4498	58.7	0.57	55.5
08 AUGUST	12754	.	1.44	.	6466	.	0.73	.
09 SEPTEMBER	19061	30.1	1.94	9.7	10513	33.0	1.07	16.3
10 OCTOBER	15767	35.1	1.56	10.8	5357	33.2	0.53	1.8
11 NOVEMBER	26890	27.5	2.65	13.6	11973	29.2	1.18	16.6
12 DECEMBER	1325	.	2.35	.	705	.	1.25	.
TOTAL	**295280**				**139482**			

SUMMARY OF SPECIES CATCH STATISTICS - 2007

LAKE=BARKLEY

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
BLUE CATFISH	15083	39.8	5.1	15083	13593	41.9	9.7	13593	9.9	1.46	147
CHANNEL CATFISH	7879	49.8	2.7	7752	7820	49.9	5.6	7820	0.7	2.49	61
FLATHEAD CATFISH	294	472.8	0.1	294	294	472.8	0.2	294	0.0	2.55	2
WHITE BASS	2471	136.0	0.8	786	887	231.0	0.6	610	64.1	0.71	16
YELLOW BASS	14196	48.8	4.8	762	944	170.1	0.7	0	93.4	0.32	9
BLUEGILL	59116	20.8	20.0	47382	33435	28.3	24.0	31769	43.4	0.23	301
REDEAR SUNFISH	5483	49.1	1.9	5483	4402	48.7	3.2	4402	19.7	0.51	28
SPOTTED BASS	1010	429.0	0.3	1010	0	.	0.0	0	100.0	.	0
LARGEMOUTH BASS	55898	18.1	18.9	54366	1122	111.3	0.8	1122	98.0	1.79	11
WHITE CRAPPIE	67270	25.0	22.8	67270	38273	33.7	27.4	38273	43.1	0.71	485
BLACK CRAPPIE	63099	24.9	21.4	63099	38714	32.1	27.8	38714	38.6	0.79	505
FRESHWATER DRUM	3475	83.1	1.2	188	0	.	0.0	0	100.0	.	0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2007

LAKE=BARKLEY

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	30020	10.2	4982	21.7	0.81	35.5	0.75	35.3	54
WHITE BASS	813	71.8	128	0.6	1.09		0.81		2
ANY SUNFISH	4865	11.4	823	3.5	7.19	10.8	5.32	8.5	8
ANY BLACK BASS	42955	14.1	6986	31.1	1.30	16.0	0.15	40.1	109
ANY CRAPPIE	51224	23.5	8223	37.1	3.04	17.4	1.79	17.6	109
ANY SPECIES	8199	9.9	1378	5.9	2.05	43.8	0.80	56.6	9
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TOTAL	**138076**		**22520**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2007

LAKE=BARKLEY

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	BLUE CATFISH	0.53	0.47
	CHANNEL CATFISH	0.27	0.27
	FLATHEAD CATFISH	0.01	0.01
ANY SUNFISH			
	BLUEGILL	6.44	4.67
	REDEAR SUNFISH	0.75	0.65
ANY BLACK BASS			
	SPOTTED BASS	0.02	0.00
	LARGEMOUTH BASS	1.27	0.03
ANY CRAPPIE			
	WHITE CRAPPIE	1.57	0.89
	BLACK CRAPPIE	1.47	0.90

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=BARKLEY

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
02 FEBRUARY	0		0	0.80	2
03 MARCH	66	1.20	4	1.30	4
04 APRIL	30	1.25	2	1.10	8
05 MAY	0		0	0.92	8
06 JUNE	28	1.52	3	1.71	12
07 JULY	30	1.46	5	1.48	16
08 AUGUST	33	1.31	2	0.78	7
09 SEPTEMBER	41	1.30	3	1.76	9
10 OCTOBER	36	1.46	4	1.54	7
11 NOVEMBER	66	1.23	4	1.18	8

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2007

LAKE=BARKLEY

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	58010	38890	96900	54
WHITE BASS	5570	820	2470	2
ANY SUNFISH	10450	6270	16720	8
ANY BLACK BASS	267280	175490	442770	107
ANY CRAPPIE	125380	76060	201440	107
ANY SPECIES	36360	27220	62600	9
TOTAL	**503050**	**324750**	**822900**	**287**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2007

LAKE=BARKLEY

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	528	98.3
OTHERS	9	1.7

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
DAVIDSON	37	7.0
MONTGOMERY	205	39.0
ROBERTSON	38	7.2
STEWART	217	41.3
OTHERS IN TN	29	5.5

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	258	48.0
B) 26-100	272	50.7
C) 101-250	1	0.2
D) > 250	6	1.1

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	285	99
B) VACATION	3	1

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	262	90.7
B) 2-5	25	8.7
C) 6-10	1	0.3
D) 11-15	1	0.3

PICKWICK
RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2007

LAKE=PICKWICK

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	1323	100.0	0.2	160	0.0	1.1
02 FEBRUARY	1509	54.3	0.2	174	0.0	1.3
03 MARCH	10744	9.6	1.7	1254	0.2	9.2
04 APRIL	5590	80.8	0.9	958	0.2	4.8
05 MAY	23523	20.0	3.8	3233	0.5	20.1
06 JUNE	31872	.	5.2	3949	0.6	27.3
07 JULY	13597	46.6	2.2	2092	0.3	11.6
08 AUGUST	9005	12.2	1.5	1512	0.2	7.7
09 SEPTEMBER	12530	23.7	2.0	1964	0.3	10.7
10 OCTOBER	4082	.	0.7	612	0.1	3.5
11 NOVEMBER	0	.	0.0	.	.	0.0
12 DECEMBER	3088	.	0.5	537	0.1	2.6
TOTAL	**116863**			**16445**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2007

LAKE=PICKWICK

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	490	.	0.37	.	79	.	0.06	.
02 FEBRUARY	558	.	0.37	.	257	.	0.17	.
03 MARCH	9992	33.1	0.93	31.6	6232	41.1	0.58	39.8
04 APRIL	3857	.	0.69	.	839	.	0.15	.
05 MAY	22817	30.0	0.97	21.9	8233	21.4	0.35	7.5
06 JUNE	26454	.	0.83	.	10518	.	0.33	.
07 JULY	7342	62.4	0.54	37.5	2311	63.8	0.17	40.1
08 AUGUST	7474	12.5	0.83	2.5	1981	15.5	0.22	9.4
09 SEPTEMBER	4761	46.4	0.38	38.4	1629	33.8	0.13	23.5
10 OCTOBER	2980	.	0.73	.	245	.	0.06	.
12 DECEMBER	4694	.	1.52	.	679	.	0.22	.
TOTAL	**91419**				**33003**			

SUMMARY OF SPECIES CATCH STATISTICS - 2007

LAKE=PICKWICK

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
BLUE CATFISH	16290	18.7	17.8	16037	11382	21.5	34.5	11382	30.1	3.92	81
CHANNEL CATFISH	5565	60.9	6.1	5224	4538	66.2	13.7	4125	18.5	2.38	31
BLUEGILL	12460	33.6	13.6	10500	3686	51.6	11.2	2552	70.4	0.25	13
REDEAR SUNFISH	229	604.6	0.3	229	229	604.6	0.7	229	0.0	0.65	1
SMALLMOUTH BASS	3682	94.3	4.0	3682	49	0.0	0.1	49	98.7	6.90	1
SPOTTED BASS	5846	76.1	6.4	5846	229	604.6	0.7	229	96.1	4.10	1
LARGEMOUTH BASS	36428	16.4	39.9	35999	2923	37.5	8.9	2923	92.0	2.74	21
WHITE CRAPPIE	10669	29.6	11.7	10118	9842	27.7	29.8	9291	7.8	0.64	143
BLACK CRAPPIE	118	547.3	0.1	118	118	547.3	0.4	118	0.0	0.98	3
SAUGER	104	.	0.1	104	8	.	0.0	8	92.3	6.10	1

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2007

LAKE=PICKWICK

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	36339	15.4	5287	31.1	0.70	19.1	0.54	21.4	33
ANY SUNFISH	1561	90.8	247	1.3	1.81		0.00		2
ANY BLACK BASS	55813	10.2	7882	47.8	1.08	29.1	0.14	99.8	78
SMALLMOUTH BASS	503	107.7	58	0.4	0.63		0.00		1
LARGEMOUTH BASS	1045	107.7	144	0.9	1.00		0.00		1
ANY CRAPPIE	12324	19.2	1546	10.5	0.93	16.9	0.80	31.0	18
SAUGER	252	156.4	29	0.2	0.75		0.13		1
ANY SPECIES	9026	34.5	1251	7.7	1.09	38.8	0.45	67.9	7
TOTAL	**116863**		**16444**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2007

LAKE=PICKWICK

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	BLUE CATFISH	0.53	0.40
	CHANNEL CATFISH	0.17	0.14
ANY SUNFISH			
	BLUEGILL	1.77	0.00
	REDEAR SUNFISH	0.04	0.00
ANY BLACK BASS			
ANY BLACK BASS			
ANY BLACK BASS			
	SMALLMOUTH BASS	0.06	0.00
	SPOTTED BASS	0.10	0.00
	LARGEMOUTH BASS	0.63	0.05
ANY CRAPPIE			
	WHITE CRAPPIE	0.92	0.79
	BLACK CRAPPIE	0.01	0.01

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=PICKWICK

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.70	4
02 FEBRUARY	0		0	0.63	1
03 MARCH	0		0	1.80	11
04 APRIL	0		0	0.95	6
05 MAY	0		0	1.02	10
06 JUNE	36	0.63	4	1.00	4
07 JULY	0		0	1.67	5
08 AUGUST	24	0.80	2	0.81	8
09 SEPTEMBER	32	1.40	4	0.52	8
12 DECEMBER	0		0	1.43	7

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2007

LAKE=PICKWICK

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	37280	6970	44250	33
ANY SUNFISH	1740	0	1740	2
ANY BLACK BASS	301170	8080	309250	76
SMALLMOUTH BASS	290	290	580	1
LARGEMOUTH BASS	2160	1440	3590	1
ANY CRAPPIE	12080	12010	24080	18
SAUGER	1450	0	1450	1
ANY SPECIES	16880	2100	18990	7
TOTAL	**373050**	**30890**	**403930**	**139**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2007

LAKE=PICKWICK

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
MS	135	47.5
TN	147	51.8
OTHERS	2	0.7

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
DECATUR	9	6.1
HARDIN	21	14.3
HAYWOOD	8	5.4
MADISON	24	16.3
SHELBY	26	17.7
WAYNE	10	6.8
OTHERS IN TN	49	33.3

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	182	63.9
B) 26-100	89	31.2
C) 101-250	12	4.2
D) > 250	2	0.7

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	120	84.5
B) VACATION	10	7.0
C) BUSINESS	12	8.5

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	120	84.5
B) 2-5	22	15.5

REELFOOT
RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2007

LAKE=REELFOOT

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
02 FEBRUARY	7095	51.0	0.7	1127	0.1	1.6
03 MARCH	105166	19.5	10.1	14975	1.4	23.1
04 APRIL	118171	22.2	11.3	15562	1.5	26.0
05 MAY	158286	22.9	15.2	20256	1.9	34.8
06 JUNE	27685	29.2	2.7	3995	0.4	6.1
07 JULY	9506	39.7	0.9	1648	0.2	2.1
08 AUGUST	2540	37.5	0.2	517	0.0	0.6
09 SEPTEMBER	5086	45.1	0.5	916	0.1	1.1
10 OCTOBER	18675	27.2	1.8	3040	0.3	4.1
11 NOVEMBER	3036	36.7	0.3	485	0.0	0.7
TOTAL	**455246**			**62521**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2007

LAKE=REELFOOT

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
02 FEBRUARY	4896	97.0	0.69	73.5	2980	101.1	0.42	77.5
03 MARCH	212435	22.5	2.02	11.0	170369	22.3	1.62	10.7
04 APRIL	254068	24.4	2.15	9.9	171348	24.4	1.45	10.0
05 MAY	446367	24.0	2.82	7.1	269086	23.7	1.70	5.8
06 JUNE	46234	38.9	1.67	24.6	29623	40.3	1.07	26.7
07 JULY	17016	50.4	1.79	28.8	5799	60.1	0.61	42.1
08 AUGUST	3099	50.2	1.22	31.3	940	55.6	0.37	38.3
09 SEPTEMBER	9104	60.4	1.79	36.6	4069	64.2	0.80	41.6
10 OCTOBER	33428	38.3	1.79	26.1	17741	40.9	0.95	29.6
11 NOVEMBER	12599	37.0	4.15	4.4	6285	36.9	2.07	3.6
TOTAL	**1039246**				**678240**			

SUMMARY OF SPECIES CATCH STATISTICS - 2007

LAKE=REELFOOT

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
ANY GAR	669	932.5	0.1	0	0	.	0.0	0	100.0	.	0
SHORTNOSE GAR	140	2548.0	0.0	0	140	2548.0	0.0	0	0.0	4.28	2
BOWFIN	179	2846.6	0.0	0	0	.	0.0	0	100.0	.	0
CHANNEL CATFISH	11037	83.1	1.1	1288	9593	92.4	1.4	1079	13.1	3.00	160
YELLOW BASS	22748	54.5	2.2	5864	14375	74.8	2.1	3045	36.8	0.29	203
WARMOUTH	4337	227.8	0.4	4337	1514	499.3	0.2	1514	65.1	0.38	20
BLUEGILL	348592	14.7	33.6	324442	258782	18.5	38.2	241152	25.8	0.43	3611
LONGEAR SUNFISH	222	1974.0	0.0	222	0	.	0.0	0	100.0	.	0
REDEAR SUNFISH	225	3348.2	0.0	225	225	3348.2	0.0	225	0.0	0.85	3
LARGEMOUTH BASS	19446	48.7	1.9	19205	1016	267.6	0.1	960	94.8	3.18	18
WHITE CRAPPIE	609133	9.8	58.8	592009	388104	13.1	57.2	374998	36.3	0.68	5034
BLACK CRAPPIE	5089	208.8	0.5	4897	3371	301.2	0.5	3184	33.8	0.71	36
BLACKNOSE CRAPPIE	351	2271.1	0.0	351	351	2271.1	0.1	351	0.0	0.74	5
FRESHWATER DRUM	13840	76.0	1.3	83	70	1019.7	0.0	0	99.5	3.70	1

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2007

LAKE=REELFOOT

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	846	60.2	154	0.2	0.98	19.0	0.83	20.0	5
ANY SUNFISH	125452	17.7	16496	27.6	2.33	5.4	1.82	5.4	272
ANY BLACK BASS	37790	15.6	5237	8.3	0.61	16.7	0.03	97.5	117
ANY CRAPPIE	278869	11.2	38963	61.3	2.13	10.0	1.40	9.0	625
ANY SPECIES	12288	24.3	1669	2.7	0.38	108.7	0.21	101.3	26
TOTAL	**455245**		**62519**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2007

LAKE=REELFOOT

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	CHANNEL CATFISH	0.98	0.83
ANY SUNFISH			
	WARMOUTH	0.03	0.01
	BLUEGILL	2.30	1.81
	LONGEAR SUNFISH	0.00	0.00
	REDEAR SUNFISH	0.00	0.00
ANY BLACK BASS			
	LARGEMOUTH BASS	0.51	0.03
ANY CRAPPIE			
	ANY CRAPPIE	0.00	0.00
	WHITE CRAPPIE	2.11	1.39
	BLACK CRAPPIE	0.02	0.01
	BLACKNOSE CRAPPIE	0.00	0.00

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=REELFOOT

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
02 FEBRUARY	0		0	0.78	2
03 MARCH	0		0	0.67	10
04 APRIL	0		0	0.74	31
05 MAY	0		0	0.64	37
06 JUNE	0		0	0.46	18
07 JULY	0		0	0.33	9
08 AUGUST	0		0	0.48	7
09 SEPTEMBER	0		0	0.00	1
10 OCTOBER	0		0	0.00	2

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2007

LAKE=REELFOOT

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	3420	640	4060	5
ANY SUNFISH	647970	160900	808880	272
ANY BLACK BASS	70650	26710	97370	116
ANY CRAPPIE	1118420	266650	1385070	621
ANY SPECIES	81890	18250	100140	26
TOTAL	**1922350**	**473150**	**2395520**	**1040**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2007

LAKE=REELFOOT

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
IL	357	18.8
IN	126	6.6
MO	253	13.4
OH	181	9.6
TN	763	40.3
OTHERS	215	11.3

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
CROCKETT	78	10.3
DYER	96	12.7
LAKE	101	13.4
OBION	392	51.9
OTHERS IN TN	87	11.5
OUT-OF-STATE	1	0.1

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	494	26.1
B) 26-100	465	24.6
C) 101-250	213	11.3
D) > 250	720	38.1

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	1041	100

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	592	56.7
B) 2-5	329	31.5
C) 6-10	111	10.6
D) 11-15	5	0.5
E) 16-20	5	0.5
F) >20	3	0.3

TWRA

REGION II

TIMS FORD
RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2007

LAKE=TIMS FORD

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	5212	25.0	0.5	1008	0.1	6.5
02 FEBRUARY	11708	2.7	1.1	2148	0.2	14.5
03 MARCH	10494	16.7	1.0	2158	0.2	13.0
04 APRIL	6088	31.6	0.6	1024	0.1	7.5
05 MAY	10064	22.2	0.9	1685	0.2	12.5
06 JUNE	8348	17.2	0.8	1437	0.1	10.3
07 JULY	6954	24.0	0.7	1297	0.1	8.6
08 AUGUST	2583	28.1	0.2	656	0.1	3.2
09 SEPTEMBER	5263	47.6	0.5	1079	0.1	6.5
10 OCTOBER	4546	22.2	0.4	861	0.1	5.6
11 NOVEMBER	3467	22.5	0.3	668	0.1	4.3
12 DECEMBER	5946	20.3	0.6	1217	0.1	7.4
TOTAL	**80673**			**15238**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2007

LAKE=TIMS FORD

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	2398	27.7	0.46	11.4	417	49.6	0.08	43.9
02 FEBRUARY	1873	25.7	0.16	26.3	117	25.3	0.01	23.4
03 MARCH	4722	35.2	0.45	30.8	1679	49.6	0.16	46.4
04 APRIL	3348	40.3	0.55	24.0	548	49.7	0.09	38.1
05 MAY	7347	34.1	0.73	25.3	1711	45.2	0.17	39.3
06 JUNE	3673	37.2	0.44	32.9	250	73.0	0.03	76.4
07 JULY	5146	64.2	0.74	57.8	209	78.9	0.03	68.1
08 AUGUST	1524	46.1	0.59	35.1	103	100.0	0.04	87.8
09 SEPTEMBER	3000	54.1	0.57	23.1	947	77.0	0.18	54.9
10 OCTOBER	2637	27.8	0.58	16.3	818	33.4	0.18	24.7
11 NOVEMBER	1491	35.3	0.43	26.2	173	78.8	0.05	80.7
12 DECEMBER	6660	38.9	1.12	32.5	3924	46.5	0.66	41.1
TOTAL	**43819**				**10896**			

SUMMARY OF SPECIES CATCH STATISTICS - 2007

LAKE=TIMS FORD

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CARP	34	1430.5	0.1	0	0	.	0.0	0	100.0	.	0
BLUE CATFISH	169	238.9	0.4	85	169	238.9	1.6	85	0.0	1.17	4
CHANNEL CATFISH	1264	101.3	2.9	853	444	70.4	4.1	370	64.9	1.76	18
FLATHEAD CATFISH	177	218.4	0.4	59	108	215.9	1.0	54	39.0	2.19	4
WHITE BASS	2784	79.5	6.4	2099	323	131.7	3.0	124	88.4	0.88	13
STRIPED BASS	1947	66.2	4.4	986	266	109.6	2.4	177	86.3	6.66	15
CHEROKEE BASS	1922	84.3	4.4	782	291	128.2	2.7	109	84.9	5.17	8
ROCK BASS	59	582.4	0.1	59	59	582.4	0.5	59	0.0	0.58	2
BLUEGILL	899	172.9	2.1	400	46	186.8	0.4	46	94.9	0.18	4
SMALLMOUTH BASS	8878	21.9	20.3	8290	459	50.1	4.2	426	94.8	2.98	14
SPOTTED BASS	2280	65.9	5.2	2217	133	126.6	1.2	133	94.2	1.09	5
LARGEMOUTH BASS	11080	22.4	25.3	10408	1772	39.0	16.3	1690	84.0	2.57	39
WHITE CRAPPIE	190	293.5	0.4	95	166	306.2	1.5	95	12.6	1.21	7
BLACK CRAPPIE	2680	56.3	6.1	2095	2392	57.9	22.0	1976	10.7	0.86	45
BLACKNOSE CRAPPIE	5189	33.5	11.8	4777	3996	37.7	36.7	3606	23.0	1.59	81
WALLEYE	537	154.8	1.2	384	267	112.7	2.5	191	50.3	2.60	14
FRESHWATER DRUM	142	372.1	0.3	36	0	.	0.0	0	100.0	.	0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2007

LAKE=TIMS FORD

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	1391	35.5	247	1.7	0.30	204.4	0.24	256.6	10
WHITE BASS	769	44.9	160	1.0	3.76	35.4	0.20	0.0	6
STRIPED BASS	5003	17.9	941	6.2	0.25	98.3	0.06	52.6	39
CHEROKEE BASS	665	47.1	136	0.8	0.54	0.0	0.03	0.0	6
ANY SUNFISH	444	59.7	78	0.6	2.87		0.00		3
ANY BLACK BASS	48309	7.2	9098	59.9	0.31	23.8	0.03	64.6	351
SMALLMOUTH BASS	193	82.2	33	0.2	0.00		0.00		2
ANY CRAPPIE	12197	12.9	2324	15.1	0.52	53.3	0.35	57.9	93
WALLEYE	4192	21.4	797	5.2	0.11	69.7	0.04	78.9	29
ANY SPECIES	7514	16.0	1420	9.3	0.45	50.1	0.12	109.4	50
TOTAL	**80677**		**15234**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2007

LAKE=TIMS FORD

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.03	0.04
	CHANNEL CATFISH	0.26	0.17
	FLATHEAD CATFISH	0.02	0.03
ANY SUNFISH			
	ANY SUNFISH	0.00	0.00
	BLUEGILL	2.87	0.00
ANY BLACK BASS			
	ANY BLACK BASS	0.00	0.00
	SMALLMOUTH BASS	0.17	0.01
	SPOTTED BASS	0.05	0.00
	LARGEMOUTH BASS	0.21	0.03
ANY CRAPPIE			
	ANY CRAPPIE	0.00	0.00
	WHITE CRAPPIE	0.01	0.01
	BLACK CRAPPIE	0.16	0.12
	BLACKNOSE CRAPPIE	0.36	0.22

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=TIMS FORD

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	18	0.22	7	0.33	33
02 FEBRUARY	3	0.25	1	0.19	26
03 MARCH	15	0.20	3	0.38	51
04 APRIL	0		0	0.34	32
05 MAY	7	0.83	1	0.47	32
06 JUNE	0		0	0.13	27
07 JULY	10	0.54	5	0.42	23
08 AUGUST	0		0	0.00	9
09 SEPTEMBER	0		0	0.24	18
10 OCTOBER	0		0	0.67	29
11 NOVEMBER	37	0.33	7	0.33	21
12 DECEMBER	9	0.38	4	0.23	23

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2007

LAKE=TIMS FORD

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY BLACK BASS	472310	736560	1208870	7
ANY CRAPPIE	9160	13740	22910	1
WALLEYE	18910	11180	30080	4
TOTAL	**500380**	**761480**	**1261860**	**12**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2007

LAKE=TIMS FORD

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
IL	2	9.1
TN	19	86.4
OTHERS	1	4.5

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BEDFORD	8	42.1
FRANKLIN	7	36.8
LINCOLN	2	10.5
MONTGOMERY	2	10.5

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	14	63.6
B) 26-100	6	27.3
D) > 250	2	9.1

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	10	83.3
B) VACATION	2	16.7

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	9	75.0
B) 2-5	2	16.7
C) 6-10	1	8.3

WOODS
RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2007

LAKE=WOODS

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	845	39.7	0.2	189	0.1	1.7
02 FEBRUARY	1708	65.4	0.5	305	0.1	3.4
03 MARCH	8326	58.5	2.3	1317	0.4	16.4
04 APRIL	8899	69.1	2.4	1841	0.5	17.5
05 MAY	7041	24.2	1.9	1519	0.4	13.9
06 JUNE	4750	42.3	1.3	1174	0.3	9.4
07 JULY	5839	15.0	1.6	1435	0.4	11.5
08 AUGUST	2646	40.3	0.7	623	0.2	5.2
09 SEPTEMBER	3997	23.5	1.1	878	0.2	7.9
10 OCTOBER	3732	38.1	1.0	782	0.2	7.4
11 NOVEMBER	587	37.2	0.2	168	0.0	1.2
12 DECEMBER	2345	3.0	0.6	761	0.2	4.6
TOTAL	**50715**			**10992**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2007

LAKE=WOODS

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	287	52.3	0.34	31.3	0	.	0.00	.
02 FEBRUARY	290	65.5	0.17	1.7	17	101.9	0.01	100.0
03 MARCH	5911	66.3	0.71	27.0	1832	70.0	0.22	33.5
04 APRIL	16107	77.4	1.81	28.6	5428	88.8	0.61	46.2
05 MAY	9153	37.5	1.30	27.7	1408	48.8	0.20	41.5
06 JUNE	2993	46.9	0.63	18.8	1188	63.9	0.25	44.4
07 JULY	7182	44.1	1.23	41.0	3912	67.3	0.67	64.9
08 AUGUST	6747	63.6	2.55	45.6	741	79.6	0.28	63.0
09 SEPTEMBER	2718	31.7	0.68	20.5	679	60.1	0.17	54.3
10 OCTOBER	3545	43.3	0.95	19.1	1232	74.5	0.33	60.7
11 NOVEMBER	335	47.3	0.57	27.7	18	124.2	0.03	100.0
12 DECEMBER	1219	14.8	0.52	14.4	868	50.0	0.37	50.0
TOTAL	**56487**				**17323**			

SUMMARY OF SPECIES CATCH STATISTICS - 2007

LAKE=WOODS

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CHANNEL CATFISH	1173	87.0	2.1	1012	1011	95.5	5.8	870	13.8	2.89	43
FLATHEAD CATFISH	25	1492.8	0.0	0	25	1492.8	0.1	0	0.0	1.09	1
WHITE BASS	581	205.3	1.0	116	176	382.5	1.0	50	69.7	0.88	6
WARMOUTH	53	1134.9	0.1	27	0	.	0.0	0	100.0	.	0
BLUEGILL	2987	73.5	5.3	2151	1024	113.1	5.9	853	65.7	0.30	54
REDEAR SUNFISH	40	1553.1	0.1	0	40	1553.1	0.2	0	0.0	0.54	1
SMALLMOUTH BASS	267	333.7	0.5	200	68	943.5	0.4	68	74.5	1.17	4
SPOTTED BASS	85	525.1	0.2	85	0	.	0.0	0	100.0	.	0
LARGEMOUTH BASS	20851	29.0	36.8	20568	3102	46.3	17.9	3054	85.1	1.47	195
WHITE CRAPPIE	6314	59.3	11.1	6031	5160	67.6	29.8	5006	18.3	0.79	166
BLACK CRAPPIE	2303	62.7	4.1	2278	2201	63.7	12.7	2177	4.4	0.79	90
BLACKNOSE CRAPPIE	1220	114.4	2.2	803	971	94.1	5.6	666	20.4	0.98	35

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2007

LAKE=WOODS

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	1869	34.5	436	3.7	0.61	44.4	0.41	75.0	9
ANY SUNFISH	1692	37.0	389	3.3	2.96	64.8	1.59	41.9	7
ANY BLACK BASS	24004	18.6	5120	47.3	0.64	47.1	0.15	45.0	179
LARGEMOUTH BASS	126	135.0	30	0.2	0.89		0.00		1
ANY CRAPPIE	18926	27.4	4066	37.3	0.75	38.9	0.39	37.4	95
ANY SPECIES	4098	24.3	948	8.1	0.74	27.3	0.17	61.8	18
TOTAL	**50715**		**10989**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2007

LAKE=WOODS

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY CATFISH	0.00	0.00
	CHANNEL CATFISH	0.61	0.41
	FLATHEAD CATFISH	0.00	0.00
ANY SUNFISH			
	ANY SUNFISH	0.00	0.00
	WARMOUTH	0.04	0.00
	BLUEGILL	2.92	1.59
	REDEAR SUNFISH	0.00	0.00
ANY BLACK BASS			
ANY BLACK BASS			
	SMALLMOUTH BASS	0.01	0.00
	SPOTTED BASS	0.00	0.00
	LARGEMOUTH BASS	0.85	0.13
ANY CRAPPIE			
	ANY CRAPPIE	0.00	0.00
	WHITE CRAPPIE	0.50	0.25
	BLACK CRAPPIE	0.19	0.11
	BLACKNOSE CRAPPIE	0.07	0.03

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=WOODS

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.29	4
02 FEBRUARY	68	0.05	7	0.23	6
03 MARCH	88	0.40	44	0.70	7
04 APRIL	0		0	1.00	9
05 MAY	0		0	0.31	6
06 JUNE	20	0.12	3	0.40	17
07 JULY	0		0	0.34	16
08 AUGUST	0		0	2.95	11
09 SEPTEMBER	6	0.64	1	0.48	21
10 OCTOBER	26	0.17	4	0.56	15
11 NOVEMBER	0		0	0.71	5

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2007

LAKE=WOODS

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY BLACK BASS	48460	73530	121990	2
TOTAL	**48460**	**73530**	**121990**	**2**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2007

LAKE=WOODS

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	3	100

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
FRANKLIN	1	33.3
RUTHERFORD	2	66.7

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	1	33.3
B) 26-100	2	66.7

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	2	100

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	2	100

J. PERCY PRIEST RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2007

LAKE=PERCY PRIEST

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	14402	20.6	1.0	3001	0.2	2.1
02 FEBRUARY	9489	30.3	0.7	2397	0.2	1.4
03 MARCH	89270	13.7	6.3	16741	1.2	13.1
04 APRIL	114433	15.9	8.1	24948	1.8	16.8
05 MAY	85478	14.8	6.0	18925	1.3	12.5
06 JUNE	84937	16.5	6.0	17886	1.3	12.5
07 JULY	65838	25.8	4.6	14819	1.0	9.7
08 AUGUST	43835	23.5	3.1	10229	0.7	6.4
09 SEPTEMBER	69771	7.8	4.9	15786	1.1	10.2
10 OCTOBER	48725	11.0	3.4	9478	0.7	7.2
11 NOVEMBER	30776	19.1	2.2	6377	0.4	4.5
12 DECEMBER	24443	24.6	1.7	5027	0.4	3.6
TOTAL	**681397**			**145614**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2007

LAKE=PERCY PRIEST

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	18435	33.1	1.28	25.4	7777	38.6	0.54	31.8
02 FEBRUARY	31124	52.2	3.28	40.6	13190	53.5	1.39	42.1
03 MARCH	119622	19.6	1.34	13.9	37493	20.3	0.42	14.8
04 APRIL	189959	20.0	1.66	12.1	35474	18.3	0.31	8.9
05 MAY	111976	15.6	1.31	4.9	35046	21.5	0.41	15.5
06 JUNE	84088	21.2	0.99	13.2	19536	25.3	0.23	18.7
07 JULY	79006	28.1	1.20	10.9	25677	33.8	0.39	21.1
08 AUGUST	79341	29.4	1.81	17.2	29808	36.9	0.68	27.7
09 SEPTEMBER	69771	26.9	1.00	25.6	18838	30.7	0.27	29.7
10 OCTOBER	72600	14.4	1.49	9.3	19977	27.8	0.41	25.1
11 NOVEMBER	38778	20.8	1.26	8.1	10464	27.2	0.34	18.9
12 DECEMBER	56219	31.9	2.30	19.8	16132	45.7	0.66	37.5
TOTAL	**950919**				**269412**			

SUMMARY OF SPECIES CATCH STATISTICS - 2007

LAKE=PERCY PRIEST

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CARP	862	830.9	0.1	157	108	1252.7	0.0	108	87.5	6.05	1
ANY BUFFALO	154	2918.4	0.0	0	0	.	0.0	0	100.0	.	0
ANY BULLHEAD	69	2820.7	0.0	69	0	.	0.0	0	100.0	.	0
BLUE CATFISH	616	654.8	0.1	440	367	842.3	0.1	184	40.4	6.21	4
CHANNEL CATFISH	25773	29.0	2.7	15916	19840	29.7	7.4	13735	23.0	1.65	206
FLATHEAD CATFISH	3725	149.1	0.4	2701	3311	142.0	1.2	2649	11.1	11.17	34
WHITE BASS	47884	24.8	5.0	19546	12277	36.0	4.6	7457	74.4	0.87	135
YELLOW BASS	93323	17.7	9.8	28655	31975	22.9	11.9	13125	65.7	0.40	363
STRIPED BASS	8607	137.4	0.9	5545	1587	202.7	0.6	705	81.6	9.34	18
CHEROKEE BASS	33347	37.2	3.5	11921	8801	50.8	3.3	4037	73.6	4.52	106
GREEN SUNFISH	14256	71.8	1.5	13497	10097	77.2	3.7	9720	29.2	0.18	107
WARMOUTH	1856	383.0	0.2	835	859	379.6	0.3	477	53.7	0.46	9
BLUEGILL	106200	14.8	11.2	65728	31458	20.9	11.7	21504	70.4	0.30	335
LONGEAR SUNFISH	3741	222.8	0.4	3118	1728	266.7	0.6	1536	53.8	0.16	18
REDEAR SUNFISH	1715	452.9	0.2	1110	1095	314.0	0.4	1095	36.2	0.21	11
SMALLMOUTH BASS	21588	47.7	2.3	2501	2101	98.4	0.8	175	90.3	3.38	24
SPOTTED BASS	34089	38.8	3.6	1154	3579	84.2	1.3	283	89.5	1.04	38
LARGEMOUTH BASS	274688	8.5	28.9	232051	21741	15.0	8.1	20478	92.1	2.47	238
WHITE CRAPPIE	170526	10.9	17.9	161594	69249	13.4	25.7	67447	59.4	0.83	807
BLACK CRAPPIE	100874	14.7	10.6	98930	48387	17.3	18.0	46986	52.0	0.84	585
WALLEYE	120	2669.6	0.0	0	0	.	0.0	0	100.0	.	0
FRESHWATER DRUM	5465	156.6	0.6	2039	388	373.2	0.1	291	92.9	1.25	4

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2007

LAKE=PERCY PRIEST

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	43636	11.1	9510	6.4	0.32	35.8	0.28	39.3	134
WHITE BASS	7174	22.2	1565	1.1	0.86	54.0	0.33	55.6	26
STRIPED BASS	27894	12.2	5913	4.1	0.13	73.9	0.02	158.2	82
CHEROKEE BASS	19343	14.3	4121	2.8	0.29	68.1	0.11	77.4	55
ANY SUNFISH	20716	14.8	4504	3.0	1.94	24.8	0.71	47.0	64
SMALLMOUTH BASS	6248	23.6	1328	0.9	0.28	94.4	0.04	193.7	22
LARGEMOUTH BASS	246207	6.1	52599	36.1	0.66	14.4	0.05	32.2	847
ANY CRAPPIE	156386	7.2	32933	23.0	1.23	17.4	0.52	17.6	487
ANY SPECIES	153163	7.0	32997	22.5	1.10	29.3	0.32	33.1	440
OTHER	633	66.0	144	0.1	0.00		0.00		3
TOTAL	**681400**		**145614**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2007

LAKE=PERCY PRIEST

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY BULLHEAD	0.00	0.00
	BLUE CATFISH	0.01	0.00
	CHANNEL CATFISH	0.27	0.23
	FLATHEAD CATFISH	0.05	0.04
ANY SUNFISH			
	GREEN SUNFISH	0.31	0.20
	WARMOUTH	0.02	0.01
	BLUEGILL	1.51	0.44
	LONGEAR SUNFISH	0.07	0.03
	REDEAR SUNFISH	0.03	0.02
ANY BLACK BASS			
	ANY BLACK BASS	0.00	0.00
	SMALLMOUTH BASS	0.01	0.00
	SPOTTED BASS	0.00	0.00
	LARGEMOUTH BASS	0.92	0.08
ANY CRAPPIE			
	ANY CRAPPIE	0.00	0.00
	WHITE CRAPPIE	0.76	0.31
	BLACK CRAPPIE	0.47	0.21

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=PERCY PRIEST

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	15	0.76	5	0.80	17
02 FEBRUARY	64	0.13	8	0.27	10
03 MARCH	65	0.47	56	0.45	75
04 APRIL	41	0.31	17	1.25	78
05 MAY	6	1.05	4	0.81	73
06 JUNE	20	0.82	17	0.74	89
07 JULY	4	0.39	10	0.74	111
08 AUGUST	28	0.36	12	0.48	43
09 SEPTEMBER	16	0.55	15	0.60	97
10 OCTOBER	18	0.76	5	0.68	52
11 NOVEMBER	23	0.06	8	0.50	36
12 DECEMBER	9	0.36	1	0.42	27

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2007

LAKE=PERCY PRIEST

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	84970	67350	152310	45
WHITE BASS	16540	7100	23640	10
STRIPED BASS	106180	59180	165360	36
CHEROKEE BASS	45740	59170	104910	22
ANY SUNFISH	41570	16030	57610	30
SMALLMOUTH BASS	19630	8390	28030	14
LARGEMOUTH BASS	894400	458670	1353070	113
ANY CRAPPIE	395810	170280	566090	71
ANY SPECIES	351310	244970	596280	52
TOTAL	**1956150**	**1091140**	**3047300**	**393**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2007

LAKE=PERCY PRIEST

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	711	95.1
OTHERS	37	4.9

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
DAVIDSON	195	27.7
RUTHERFORD	326	46.2
WILLIAMSON	58	8.2
WILSON	55	7.8
OTHERS IN TN	71	10.1

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	594	80.2
B) 26-100	113	15.2
C) 101-250	10	1.3
D) > 250	24	3.2

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	389	98.7
B) VACATION	3	0.8
D) OTHER	2	0.5

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	378	95.9
B) 2-5	12	3.0
C) 6-10	4	1.0

OLD HICKORY RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2007

LAKE=OLD HICKORY

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	15300	34.8	0.7	2853	0.1	1.5
02 FEBRUARY	22446	48.2	1.0	5363	0.2	2.2
03 MARCH	159500	24.5	7.1	31664	1.4	15.7
04 APRIL	104458	11.0	4.6	20849	0.9	10.3
05 MAY	183291	15.8	8.1	35995	1.6	18.1
06 JUNE	158023	15.9	7.0	35486	1.6	15.6
07 JULY	103550	14.7	4.6	24299	1.1	10.2
08 AUGUST	89989	9.3	4.0	22255	1.0	8.9
09 SEPTEMBER	47685	16.7	2.1	9573	0.4	4.7
10 OCTOBER	86175	21.9	3.8	19320	0.9	8.5
11 NOVEMBER	26850	27.1	1.2	7373	0.3	2.6
12 DECEMBER	16299	40.2	0.7	3051	0.1	1.6
TOTAL	**1013566**			**218081**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2007

LAKE=OLD HICKORY

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	17289	54.7	1.13	39.9	4437	45.1	0.29	27.2
02 FEBRUARY	50952	64.3	2.27	38.3	36811	74.9	1.64	51.8
03 MARCH	341330	28.4	2.14	13.8	82940	28.0	0.52	13.1
04 APRIL	233986	29.3	2.24	27.0	45962	28.0	0.44	25.4
05 MAY	346420	21.7	1.89	14.7	95311	27.5	0.52	22.1
06 JUNE	244936	27.6	1.55	22.4	48987	27.7	0.31	22.6
07 JULY	89053	20.6	0.86	14.4	13462	35.8	0.13	32.1
08 AUGUST	134984	16.9	1.50	14.0	17098	26.7	0.19	25.2
09 SEPTEMBER	58176	28.0	1.22	22.1	7630	55.3	0.16	51.7
10 OCTOBER	116336	29.5	1.35	19.4	19820	30.2	0.23	20.4
11 NOVEMBER	36516	31.0	1.36	14.5	9129	43.8	0.34	33.7
12 DECEMBER	24611	40.8	1.51	6.5	4890	43.4	0.30	15.4
TOTAL	**1694589**				**386477**			

SUMMARY OF SPECIES CATCH STATISTICS - 2007

LAKE=OLD HICKORY

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
MOONEYE	470	2361.4	0.0	0	0	.	0.0	0	100.0	.	0
CARP	1046	988.7	0.1	149	0	.	0.0	0	100.0	.	0
ANY BUFFALO	445	1222.9	0.0	0	223	1084.6	0.1	0	49.9	6.22	1
BLUE CATFISH	946	643.4	0.1	946	817	705.2	0.2	817	13.6	4.12	5
CHANNEL CATFISH	30243	64.5	1.8	19751	18562	54.7	4.8	14074	38.6	2.49	91
FLATHEAD CATFISH	926	734.9	0.1	556	568	634.3	0.1	568	38.7	4.70	3
ANY TEMPERATE BASS	1777	559.9	0.1	0	1777	559.9	0.5	0	0.0	0.75	0
WHITE BASS	97818	29.1	5.8	45277	29469	43.9	7.6	25634	69.9	0.74	146
YELLOW BASS	64364	53.5	3.8	21017	11219	82.5	2.9	5134	82.6	0.44	59
STRIPED BASS	10995	179.8	0.6	7772	4546	98.9	1.2	3599	58.7	5.34	24
CHEROKEE BASS	2027	755.4	0.1	169	50	1077.7	0.0	0	97.5	5.25	1
ROCK BASS	215	2036.3	0.0	0	215	2036.3	0.1	0	0.0	1.00	1
GREEN SUNFISH	29093	96.8	1.7	26911	18715	80.2	4.8	16844	35.7	0.17	90
WARMOUTH	11749	205.0	0.7	3730	2634	247.5	0.7	2107	77.6	0.29	14
BLUEGILL	341726	13.3	20.1	234948	84706	19.4	21.9	72605	75.2	0.29	425
LONGEAR SUNFISH	14533	120.9	0.9	13443	8400	122.6	2.2	8173	42.2	0.20	37
REDEAR SUNFISH	25295	99.3	1.5	21177	13306	68.1	3.4	12328	47.4	0.36	68
SMALLMOUTH BASS	9761	198.9	0.6	1126	1327	238.5	0.3	0	86.4	3.15	6
SPOTTED BASS	15552	150.0	0.9	1694	1724	396.3	0.4	0	88.9	1.59	7
LARGEMOUTH BASS	580433	10.9	34.2	528867	49473	16.8	12.8	45367	91.5	1.87	253
WHITE CRAPPIE	276870	18.4	16.3	262947	112791	21.0	29.2	110017	59.3	0.72	488
BLACK CRAPPIE	41747	85.3	2.5	38888	7543	91.0	2.0	6673	81.9	0.83	52
BLACKNOSE CRAPPIE	1195	1005.3	0.1	1195	935	1015.6	0.2	935	21.8	0.75	5
SAUGER	104310	57.5	6.1	88926	15199	69.8	3.9	12928	85.4	1.45	87
WALLEYE	4141	337.4	0.2	1183	1296	245.6	0.3	589	68.7	2.53	11
FRESHWATER DRUM	28281	78.4	1.7	3585	982	234.0	0.3	0	96.5	3.05	4

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2007

LAKE=OLD HICKORY

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	80475	11.1	17640	7.9	0.22	31.5	0.17	37.5	112
WHITE BASS	26106	17.4	5968	2.6	1.04	64.6	0.59	59.8	42
STRIPED BASS	45943	13.6	10258	4.5	0.20	104.4	0.09	105.3	67
CHEROKEE BASS	386	93.5	78	0.0	0.00		0.00		1
ANY SUNFISH	70707	11.7	15375	7.0	3.03	29.8	1.19	47.6	104
SMALLMOUTH BASS	2071	59.2	476	0.2	0.10		0.00		5
LARGEMOUTH BASS	422354	7.5	89860	41.7	0.88	14.2	0.07	25.8	706
ANY CRAPPIE	134570	12.6	27483	13.3	1.50	20.4	0.56	22.7	182
SAUGER	42384	15.9	9527	4.2	1.57	70.3	0.17	56.3	99
WALLEYE	12910	23.6	2905	1.3	0.06	100.4	0.04	177.3	24
SAUGEYE	1521	74.0	349	0.2	0.00		0.00		2
ANY SPECIES	174139	8.5	38160	17.2	1.48	28.0	0.32	48.5	250
TOTAL	**1013566**		**218079**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2007

LAKE=OLD HICKORY

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	BLUE CATFISH	0.01	0.01
	CHANNEL CATFISH	0.20	0.15
	FLATHEAD CATFISH	0.01	0.01
ANY SUNFISH			
	GREEN SUNFISH	0.27	0.18
	WARMOUTH	0.04	0.02
	BLUEGILL	2.37	0.77
	LONGEAR SUNFISH	0.14	0.09
	REDEAR SUNFISH	0.21	0.13
ANY BLACK BASS			
	ANY BLACK BASS	0.00	0.00
	SMALLMOUTH BASS	0.00	0.00
	SPOTTED BASS	0.00	0.00
	LARGEMOUTH BASS	1.25	0.11
ANY CRAPPIE			
	WHITE CRAPPIE	1.30	0.52
	BLACK CRAPPIE	0.19	0.03
	BLACKNOSE CRAPPIE	0.01	0.00

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=OLD HICKORY

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.85	4
02 FEBRUARY	0		0	0.53	15
03 MARCH	48	0.69	33	1.06	66
04 APRIL	51	0.84	7	0.62	21
05 MAY	31	1.28	30	1.13	123
06 JUNE	21	1.15	21	0.89	83
07 JULY	25	0.48	16	0.78	75
08 AUGUST	4	1.20	5	0.58	26
09 SEPTEMBER	29	0.74	21	0.69	65
10 OCTOBER	7	0.85	7	0.53	59
11 NOVEMBER	0		0	0.71	18
12 DECEMBER	59	1.20	4	0.38	12

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2007

LAKE=OLD HICKORY

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	202510	58700	261210	54
WHITE BASS	48940	33770	82710	17
STRIPED BASS	197010	121450	318460	24
ANY SUNFISH	119920	107520	227450	48
SMALLMOUTH BASS	2780	5230	8010	5
LARGEMOUTH BASS	2107680	1222920	3330610	126
ANY CRAPPIE	368970	193050	562020	37
SAUGER	149700	75460	225170	29
WALLEYE	84400	77000	161400	13
ANY SPECIES	337300	204140	541440	33
TOTAL	**3619210**	**2099240**	**5718480**	**386**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2007

LAKE=OLD HICKORY

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	694	93.4
OTHERS	49	6.6

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
DAVIDSON	58	8.4
SMITH	42	6.1
SUMNER	191	27.6
WILSON	224	32.4
OTHERS IN TN	176	25.5

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	539	72.3
B) 26-100	153	20.5
C) 101-250	13	1.7
D) > 250	40	5.4

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	387	99.2
B) VACATION	3	0.8

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	366	93.8
B) 2-5	15	3.8
C) 6-10	6	1.5
D) 11-15	2	0.5
E) 16-20	1	0.3

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REGION III

CENTER HILL
RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2007

LAKE=CENTER HILL

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	8541	.	0.5	1475	0.1	3.1
02 FEBRUARY	19333	25.6	1.1	3843	0.2	7.0
03 MARCH	50669	36.0	2.8	8140	0.4	18.3
04 APRIL	37247	18.6	2.0	6053	0.3	13.4
05 MAY	34255	17.4	1.9	6747	0.4	12.4
06 JUNE	29281	19.7	1.6	6337	0.3	10.6
07 JULY	22360	17.6	1.2	4820	0.3	8.1
08 AUGUST	8686	13.5	0.5	2179	0.1	3.1
09 SEPTEMBER	16976	18.7	0.9	3395	0.2	6.1
10 OCTOBER	18788	25.6	1.0	3453	0.2	6.8
11 NOVEMBER	7450	22.0	0.4	1503	0.1	2.7
12 DECEMBER	23633	33.2	1.3	4139	0.2	8.5
TOTAL	**277219**			**52084**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2007

LAKE=CENTER HILL

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	1281	.	0.15	.	598	.	0.07	.
02 FEBRUARY	4833	29.6	0.25	14.2	1160	45.9	0.06	35.8
03 MARCH	52189	50.8	1.03	33.8	22294	54.7	0.44	39.1
04 APRIL	27935	26.0	0.75	17.9	8939	26.4	0.24	18.6
05 MAY	40078	26.1	1.17	19.3	21581	30.4	0.63	24.4
06 JUNE	18740	51.8	0.64	46.9	7906	52.1	0.27	46.7
07 JULY	25938	63.9	1.16	60.4	19900	74.1	0.89	70.7
08 AUGUST	3648	25.1	0.42	20.7	2345	41.2	0.27	38.3
09 SEPTEMBER	8318	40.2	0.49	35.2	3565	42.3	0.21	37.8
10 OCTOBER	9018	44.1	0.48	34.7	3758	46.5	0.20	37.8
11 NOVEMBER	8419	44.7	1.13	37.9	2757	38.3	0.37	30.9
12 DECEMBER	8272	73.5	0.35	61.5	4490	63.7	0.19	50.9
TOTAL	**208669**				**99293**			

SUMMARY OF SPECIES CATCH STATISTICS - 2007

LAKE=CENTER HILL

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CHANNEL CATFISH	4517	105.5	2.2	2793	4216	93.5	4.2	2714	6.7	3.14	73
FLATHEAD CATFISH	1516	225.2	0.7	1516	1516	225.2	1.5	1516	0.0	3.58	19
MUSKELLUNGE	50	1158.4	0.0	0	0	.	0.0	0	100.0	.	0
ROCK BASS	183	1253.2	0.1	0	183	1253.2	0.2	0	0.0	0.70	1
BLUEGILL	71594	25.8	34.4	61556	43902	36.2	44.2	38470	38.7	0.26	792
REDEAR SUNFISH	306	610.2	0.1	306	257	673.8	0.3	257	16.0	0.78	4
SMALLMOUTH BASS	5203	79.1	2.5	4918	830	114.3	0.8	830	84.0	2.70	14
SPOTTED BASS	59663	17.8	28.6	55264	26476	28.2	26.7	24373	55.6	1.52	340
LARGEMOUTH BASS	10593	50.8	5.1	10427	2389	108.0	2.4	2389	77.4	2.80	24
WHITE CRAPPIE	3307	182.0	1.6	2910	1710	264.6	1.7	1330	48.3	0.91	27
BLACK CRAPPIE	3745	185.6	1.8	3178	2216	224.4	2.2	1773	40.8	1.19	20
BLACKNOSE CRAPPIE	36608	33.9	17.6	35041	11398	54.7	11.5	10327	68.9	1.73	142
WALLEYE	8096	70.2	3.9	8096	4198	108.2	4.2	4198	48.1	2.90	63
FRESHWATER DRUM	190	1400.3	0.1	0	0	.	0.0	0	100.0	.	0
ANY SUCKER	381	985.1	0.2	0	0	.	0.0	0	100.0	.	0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2007

LAKE=CENTER HILL

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	9376	23.1	1828	3.4	0.37	23.1	0.37	23.1	14
ANY SUNFISH	14652	19.5	2934	5.3	6.97	65.4	4.56	96.6	26
ANY BLACK BASS	115056	10.4	20955	41.5	0.58	21.3	0.22	29.0	263
SMALLMOUTH BASS	3392	42.8	601	1.2	0.09	0.0	0.06	0.0	6
SPOTTED BASS	5475	25.1	1147	2.0	0.53	52.5	0.46	54.5	16
ANY CRAPPIE	40376	15.8	7211	14.6	1.67	41.9	0.59	46.3	85
WALLEYE	55678	14.1	10992	20.1	0.16	38.1	0.09	42.1	135
ANY SPECIES	33211	13.7	6415	12.0	0.09	131.6	0.07	159.7	64
TOTAL	**277216**		**52083**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2007

LAKE=CENTER HILL

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	CHANNEL CATFISH	0.24	0.24
	FLATHEAD CATFISH	0.13	0.13
ANY SUNFISH			
	BLUEGILL	6.94	4.53
	REDEAR SUNFISH	0.03	0.03
ANY BLACK BASS			
ANY BLACK BASS			
ANY BLACK BASS			
	ANY BLACK BASS	0.00	0.00
	SMALLMOUTH BASS	0.04	0.01
	SPOTTED BASS	0.45	0.20
	LARGEMOUTH BASS	0.08	0.02
ANY CRAPPIE			
	ANY CRAPPIE	0.00	0.00
	WHITE CRAPPIE	0.12	0.06
	BLACK CRAPPIE	0.13	0.08
	BLACKNOSE CRAPPIE	1.42	0.45

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=CENTER HILL

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	56	0.28	3	0.43	6
02 FEBRUARY	11	0.00	3	0.24	37
03 MARCH	20	0.53	3	0.82	26
04 APRIL	13	0.60	9	0.76	57
05 MAY	0		0	0.73	29
06 JUNE	18	0.24	5	0.33	22
07 JULY	31	0.21	2	0.45	11
08 AUGUST	0		0	0.63	11
09 SEPTEMBER	12	0.61	1	0.82	10
10 OCTOBER	0		0	0.46	15
11 NOVEMBER	10	0.00	1	1.23	8
12 DECEMBER	38	0.39	5	0.47	21

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2007

LAKE=CENTER HILL

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	27410	16070	43490	14
ANY SUNFISH	40630	23280	60140	26
ANY BLACK BASS	507070	410670	917740	262
SMALLMOUTH BASS	8530	3340	8740	6
SPOTTED BASS	25050	18270	41840	16
ANY CRAPPIE	116150	87370	200570	85
WALLEYE	192040	146210	338250	134
ANY SPECIES	60570	67510	128080	64
TOTAL	**977450**	**772720**	**1738850**	**607**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2007

LAKE=CENTER HILL

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	1155	98
OTHERS	24	2

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
DAVIDSON	69	6.0
DEKALB	206	17.8
PUTNAM	251	21.7
SMITH	58	5.0
WARREN	171	14.8
WHITE	69	6.0
WILSON	85	7.3
OTHERS IN TN	246	21.3
OUT-OF-STATE	2	0.2

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	782	66.3
B) 26-100	368	31.2
C) 101-250	10	0.8
D) > 250	19	1.6

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	568	93.3
B) VACATION	39	6.4
C) BUSINESS	2	0.3

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	525	86.2
B) 2-5	47	7.7
C) 6-10	27	4.4
D) 11-15	8	1.3
F) >20	2	0.3

CHICKAMAUGA RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2007

LAKE=CHICKAMAUGA

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	13218	20.9	0.4	2121	0.1	2.4
02 FEBRUARY	35444	27.9	1.0	5832	0.2	6.5
03 MARCH	84072	19.0	2.4	13334	0.4	15.4
04 APRIL	67815	28.8	2.0	10075	0.3	12.4
05 MAY	59942	24.5	1.7	9069	0.3	11.0
06 JUNE	32112	15.1	0.9	5214	0.2	5.9
07 JULY	39458	13.1	1.1	6629	0.2	7.2
08 AUGUST	22031	14.0	0.6	3611	0.1	4.0
09 SEPTEMBER	51589	23.1	1.5	8421	0.2	9.4
10 OCTOBER	97349	74.8	2.8	15919	0.5	17.8
11 NOVEMBER	10963	15.5	0.3	1625	0.0	2.0
12 DECEMBER	32100	29.2	0.9	4935	0.1	5.9
TOTAL	**546093**			**86785**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2007

LAKE=CHICKAMAUGA

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	37803	29.8	2.86	20.7	9649	37.7	0.73	30.8
02 FEBRUARY	90737	37.4	2.56	24.0	34381	49.7	0.97	39.5
03 MARCH	285845	20.0	3.40	6.2	75665	21.8	0.90	10.4
04 APRIL	182422	29.7	2.69	7.1	47471	33.6	0.70	16.8
05 MAY	221186	27.1	3.69	11.3	103700	31.5	1.73	19.2
06 JUNE	82528	17.2	2.57	8.2	27616	19.9	0.86	12.8
07 JULY	149940	16.7	3.80	10.2	44588	26.7	1.13	23.1
08 AUGUST	54196	28.5	2.46	24.5	14320	40.9	0.65	38.1
09 SEPTEMBER	151672	28.1	2.94	15.5	43335	33.4	0.84	23.5
10 OCTOBER	320278	78.4	3.29	18.7	67171	77.3	0.69	15.3
11 NOVEMBER	31245	21.7	2.85	15.0	8003	25.3	0.73	19.9
12 DECEMBER	103041	30.7	3.21	9.2	23754	32.7	0.74	14.2
TOTAL	**1710893**				**499653**			

SUMMARY OF SPECIES CATCH STATISTICS - 2007

LAKE=CHICKAMAUGA

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
PADDLEFISH	137	1827.5	0.0	0	84	2389.8	0.0	0	38.7	34.60	1
SKIPJACK HERRING	3812	360.3	0.2	2420	0	.	0.0	0	100.0	.	0
ALEWIFE	185	2164.9	0.0	185	0	.	0.0	0	100.0	.	0
CARP	92	3985.0	0.0	0	0	.	0.0	0	100.0	.	0
GOLDEN SHINER	196	3338.1	0.0	196	0	.	0.0	0	100.0	.	0
BLUE CATFISH	167105	19.4	9.8	156518	97315	21.7	19.5	92208	41.8	3.36	1410
CHANNEL CATFISH	54917	42.8	3.2	48203	30222	43.8	6.0	26803	45.0	3.16	442
FLATHEAD CATFISH	10751	117.9	0.6	7991	5698	122.0	1.1	4915	47.0	4.81	80
TIGER MUSKIE	100	3378.8	0.0	100	100	3378.8	0.0	100	0.0	0.65	2
WHITE BASS	52626	44.9	3.1	20148	23746	42.5	4.8	11499	54.9	1.27	413
YELLOW BASS	159219	21.4	9.3	65512	2387	103.1	0.5	289	98.5	1.49	33
STRIPED BASS	7789	274.9	0.5	5263	2856	318.0	0.6	2192	63.3	19.71	41
CHEROKEE BASS	40	2546.8	0.0	40	40	2546.8	0.0	40	0.0	16.20	1
WARMOUTH	1192	748.4	0.1	775	511	923.6	0.1	454	57.1	0.38	9
BLUEGILL	573417	17.4	33.5	354563	179114	16.5	35.8	140337	68.8	0.27	2760
REDEAR SUNFISH	55673	61.2	3.3	46631	36165	61.6	7.2	31369	35.0	0.38	641
SMALLMOUTH BASS	18821	96.6	1.1	15483	1606	200.7	0.3	1606	91.5	4.29	19
SPOTTED BASS	72874	34.1	4.3	67508	1377	136.7	0.3	1215	98.1	1.56	19
LARGEMOUTH BASS	238006	17.0	13.9	224401	27761	24.4	5.6	26891	88.3	2.34	334
WHITE CRAPPIE	54654	43.8	3.2	51540	17187	50.5	3.4	16216	68.6	0.75	225
BLACK CRAPPIE	201365	26.9	11.8	187139	72223	27.2	14.5	67126	64.1	0.80	988
BLACKNOSE CRAPPIE	662	787.7	0.0	662	521	814.5	0.1	521	21.3	0.86	8
SAUGER	1666	337.2	0.1	1111	247	434.7	0.0	247	85.2	1.50	7
FRESHWATER DRUM	36095	52.4	2.1	6329	69	621.3	0.0	69	99.8	.	1

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2007

LAKE=CHICKAMAUGA

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	101168	14.8	16155	18.5	1.85	19.0	1.12	24.0	219
WHITE BASS	2105	45.0	334	0.4	1.39	58.7	0.98	34.2	6
STRIPED BASS	8908	27.1	1417	1.6	0.44	38.9	0.17	53.2	23
ANY SUNFISH	3889	40.9	618	0.7	11.30	16.8	6.45	22.9	9
ANY BLACK BASS	231023	14.7	36655	42.3	1.12	11.4	0.12	57.2	626
SMALLMOUTH BASS	125	147.3	19	0.0	0.00		0.00		1
ANY CRAPPIE	70513	20.7	11123	12.9	2.70	20.4	1.02	19.3	155
SAUGER	491	88.9	78	0.1	1.23		0.19		2
ANY SPECIES	127873	17.6	20378	23.4	5.31	19.1	1.89	31.1	305
TOTAL	**546095**		**86777**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2007

LAKE=CHICKAMAUGA

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	1.36	0.83
	CHANNEL CATFISH	0.42	0.24
	FLATHEAD CATFISH	0.07	0.04
ANY SUNFISH			
	WARMOUTH	0.02	0.02
	BLUEGILL	9.97	5.26
	REDEAR SUNFISH	1.31	1.18
ANY BLACK BASS			
ANY BLACK BASS			
	SMALLMOUTH BASS	0.07	0.01
	SPOTTED BASS	0.29	0.01
	LARGEMOUTH BASS	0.97	0.12
ANY CRAPPIE			
	WHITE CRAPPIE	0.58	0.20
	BLACK CRAPPIE	2.11	0.82
	BLACKNOSE CRAPPIE	0.01	0.01

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=CHICKAMAUGA

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.81	27
02 FEBRUARY	24	0.98	3	1.00	29
03 MARCH	6	3.82	3	1.15	61
04 APRIL	13	1.38	8	1.24	63
05 MAY	11	1.29	6	0.89	72
06 JUNE	0		0	1.15	45
07 JULY	2	2.26	3	1.40	57
08 AUGUST	7	1.34	3	0.79	39
09 SEPTEMBER	6	1.47	1	0.91	53
10 OCTOBER	4	0.53	1	1.06	41
11 NOVEMBER	5	2.23	2	1.07	39
12 DECEMBER	0		0	1.16	55

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2007

LAKE=CHICKAMAUGA

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	400810	259680	660490	200
WHITE BASS	9230	4430	13660	6
STRIPED BASS	49310	36720	86030	22
ANY SUNFISH	7150	10460	17610	7
ANY BLACK BASS	900160	720700	1620860	545
SMALLMOUTH BASS	310	190	500	1
ANY CRAPPIE	225560	163070	388630	145
SAUGER	2370	960	3330	2
ANY SPECIES	232710	238260	470980	233
TOTAL	**1827610**	**1434470**	**3262090**	**1161**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2007

LAKE=CHICKAMAUGA

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
GA	191	8.0
TN	2184	91.6
OTHERS	10	0.4

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BRADLEY	324	14.9
HAMILTON	1003	46.0
MEIGS	127	5.8
RHEA	198	9.1
SEQUATCHIE	117	5.4
OTHERS IN TN	405	18.6
OUT-OF-STATE	5	0.2

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	1753	73.8
B) 26-100	602	25.4
C) 101-250	17	0.7
D) > 250	2	0.1

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	1241	99.7
B) VACATION	4	0.3

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	1235	99.3
B) 2-5	8	0.6
F) >20	1	0.1

WATTS BAR RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2007

LAKE=WATTS BAR

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	19478	17.5	0.5	3501	0.1	4.4
02 FEBRUARY	25972	40.2	0.7	4424	0.1	5.9
03 MARCH	42657	11.7	1.1	6898	0.2	9.6
04 APRIL	71147	46.9	1.8	10770	0.3	16.1
05 MAY	86012	29.6	2.2	12838	0.3	19.5
06 JUNE	44926	14.5	1.2	6655	0.2	10.2
07 JULY	50168	23.3	1.3	7866	0.2	11.3
08 AUGUST	22334	38.8	0.6	3816	0.1	5.1
09 SEPTEMBER	22256	18.5	0.6	3481	0.1	5.0
10 OCTOBER	21316	13.4	0.5	3384	0.1	4.8
11 NOVEMBER	12714	12.4	0.3	2040	0.1	2.9
12 DECEMBER	23153	52.8	0.6	3849	0.1	5.2
TOTAL	**442133**			**69522**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2007

LAKE=WATTS BAR

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	60187	18.0	3.09	4.4	25711	20.5	1.32	10.6
02 FEBRUARY	47269	45.1	1.82	18.9	9610	65.0	0.37	46.9
03 MARCH	143754	16.3	3.37	11.4	36258	19.0	0.85	14.9
04 APRIL	205615	51.4	2.89	19.0	78973	60.3	1.11	34.4
05 MAY	190947	30.8	2.22	8.2	67089	31.7	0.78	10.8
06 JUNE	106924	21.6	2.38	15.9	34144	24.2	0.76	19.1
07 JULY	89801	30.1	1.79	18.6	38128	33.6	0.76	23.6
08 AUGUST	41541	42.5	1.86	16.2	7370	48.4	0.33	26.7
09 SEPTEMBER	32049	29.9	1.44	23.1	4674	46.1	0.21	41.9
10 OCTOBER	48174	30.2	2.26	26.9	13003	50.3	0.61	47.8
11 NOVEMBER	29878	13.2	2.35	4.5	6230	44.1	0.49	42.5
12 DECEMBER	53715	55.9	2.32	16.1	13429	65.1	0.58	33.6
TOTAL	**1049854**				**334619**			

SUMMARY OF SPECIES CATCH STATISTICS - 2007

LAKE=WATTS BAR

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
BOWFIN	1016	1078.6	0.1	1016	284	1608.4	0.1	284	72.0	15.80	2
SKIPJACK HERRING	43463	78.7	4.1	11605	0	.	0.0	0	100.0	.	0
GOLDFISH	586	1521.3	0.1	0	0	.	0.0	0	100.0	.	0
CARP	183	1475.1	0.0	0	0	.	0.0	0	100.0	.	0
ANY BUFFALO	1264	656.4	0.1	1264	0	.	0.0	0	100.0	.	0
BLUE CATFISH	82146	26.5	7.8	73097	48734	31.5	14.6	45115	40.7	4.31	388
CHANNEL CATFISH	28636	60.8	2.7	27267	16773	64.0	5.0	16313	41.4	3.30	146
FLATHEAD CATFISH	7872	137.1	0.7	5353	4226	187.8	1.3	4120	46.3	5.35	40
WHITE BASS	153788	16.9	14.6	81365	77060	21.3	23.0	47671	49.9	1.46	666
YELLOW BASS	60404	34.6	5.8	27786	1391	217.1	0.4	464	97.7	0.76	6
STRIPED BASS	35120	58.3	3.3	24461	10482	87.4	3.1	6413	70.2	16.30	85
CHEROKEE BASS	1701	454.9	0.2	608	1617	466.0	0.5	498	4.9	11.02	13
BLUEGILL	191921	16.8	18.3	125936	67718	24.2	20.2	49259	64.7	0.25	602
REDEAR SUNFISH	184	940.5	0.0	138	134	921.0	0.0	89	27.2	0.37	3
SMALLMOUTH BASS	40623	37.5	3.9	35272	1982	137.5	0.6	1586	95.1	4.01	20
SPOTTED BASS	38260	42.0	3.6	34755	1460	161.0	0.4	973	96.2	1.97	15
LARGEMOUTH BASS	167471	16.2	15.9	155143	17050	33.7	5.1	15950	89.8	2.74	150
WHITE CRAPPIE	76057	37.5	7.2	61242	43876	50.1	13.1	35526	42.3	0.72	286
BLACK CRAPPIE	69540	32.9	6.6	58632	32694	44.3	9.8	26814	53.0	0.83	275
BLACKNOSE CRAPPIE	3588	329.1	0.3	3027	1969	323.0	0.6	1674	45.1	1.19	20
SAUGER	24131	57.6	2.3	20721	6912	77.0	2.1	6108	71.4	1.64	83
WALLEYE	242	1137.7	0.0	81	157	1092.6	0.0	79	35.1	4.70	2
FRESHWATER DRUM	21438	65.4	2.0	6431	0	.	0.0	0	100.0	.	0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2007

LAKE=WATTS BAR

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	47615	15.9	7393	10.8	1.46	16.5	0.89	17.6	74
WHITE BASS	9157	26.3	1423	2.1	2.88	34.5	1.75	37.2	19
STRIPED BASS	24280	20.1	3845	5.5	0.53	39.0	0.14	50.5	36
ANY SUNFISH	860	105.1	128	0.2	8.86		3.18		1
ANY BLACK BASS	197176	12.0	30774	44.6	0.88	13.0	0.07	43.2	367
ANY CRAPPIE	43334	24.6	6839	9.8	1.78	19.7	0.87	21.9	76
SAUGER	10299	27.6	1730	2.3	1.37	25.1	0.44	25.2	21
ANY SPECIES	109413	11.9	17390	24.7	3.52	23.7	1.37	33.8	196
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TOTAL	**442134**		**69522**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2007

LAKE=WATTS BAR

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	BLUE CATFISH	1.01	0.61
	CHANNEL CATFISH	0.38	0.22
	FLATHEAD CATFISH	0.07	0.06
ANY SUNFISH			
	BLUEGILL	8.85	3.17
	REDEAR SUNFISH	0.01	0.01
ANY BLACK BASS			
	ANY BLACK BASS	0.00	0.00
	SMALLMOUTH BASS	0.18	0.01
	SPOTTED BASS	0.18	0.00
	LARGEMOUTH BASS	0.79	0.08
ANY CRAPPIE			
	WHITE CRAPPIE	0.89	0.48
	BLACK CRAPPIE	0.85	0.36
	BLACKNOSE CRAPPIE	0.04	0.02

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=WATTS BAR

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	1.22	7
02 FEBRUARY	0		0	0.63	19
03 MARCH	0		0	1.18	32
05 MAY	17	1.11	6	0.77	51
06 JUNE	23	0.91	6	0.78	33
07 JULY	14	0.79	3	0.73	24
08 AUGUST	0		0	0.73	26
09 SEPTEMBER	5	0.07	2	0.85	40
10 OCTOBER	19	1.19	4	1.00	26
11 NOVEMBER	0		0	1.03	25
12 DECEMBER	0		0	1.17	18

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2007

LAKE=WATTS BAR

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	196420	132240	328660	68
WHITE BASS	33250	27430	60690	17
STRIPED BASS	80120	81320	161440	32
ANY SUNFISH	830	1600	2440	1
ANY BLACK BASS	865210	612300	1477500	330
ANY CRAPPIE	152940	152710	305650	72
SAUGER	38670	26160	64830	17
ANY SPECIES	232920	256890	489800	154
TOTAL	**1600360**	**1290650**	**2891010**	**691**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2007

LAKE=WATTS BAR

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	1384	94.5
OTHERS	80	5.5

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
ANDERSON	76	5.5
CUMBERLAND	106	7.7
HAMILTON	118	8.5
KNOX	170	12.3
LOUDON	120	8.7
McMINN	136	9.8
RHEA	151	10.9
ROANE	259	18.7
OTHERS IN TN	246	17.8
OUT-OF-STATE	1	0.1

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	940	64.8
B) 26-100	443	30.6
C) 101-250	16	1.1
D) > 250	51	3.5

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	755	99.7
B) VACATION	1	0.1
C) BUSINESS	1	0.1

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	719	95.0
B) 2-5	28	3.7
C) 6-10	7	0.9
D) 11-15	2	0.3
F) >20	1	0.1

DALE HOLLOW RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2007

LAKE=DALE HOLLOW

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	13278	20.6	0.6	2723	0.1	3.5
02 FEBRUARY	18184	23.9	0.8	2928	0.1	4.8
03 MARCH	57258	18.5	2.5	7640	0.3	15.0
04 APRIL	64117	21.8	2.8	8404	0.4	16.8
05 MAY	75162	19.3	3.2	11575	0.5	19.7
06 JUNE	21862	11.0	0.9	3998	0.2	5.7
07 JULY	29981	38.9	1.3	6187	0.3	7.9
08 AUGUST	9423	17.1	0.4	2016	0.1	2.5
09 SEPTEMBER	18280	22.2	0.8	3465	0.1	4.8
10 OCTOBER	31709	16.1	1.4	5156	0.2	8.3
11 NOVEMBER	17502	18.5	0.8	2783	0.1	4.6
12 DECEMBER	24112	32.8	1.0	4184	0.2	6.3
TOTAL	**380868**			**61059**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2007

LAKE=DALE HOLLOW

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	6241	32.1	0.47	24.1	929	33.6	0.07	24.7
02 FEBRUARY	2909	38.1	0.16	28.9	0	.	0.00	56.6
03 MARCH	25194	27.4	0.44	19.8	7444	31.4	0.13	25.1
04 APRIL	39753	25.8	0.62	13.4	12182	36.7	0.19	28.7
05 MAY	53365	24.1	0.71	14.1	20294	33.3	0.27	26.6
06 JUNE	13773	21.6	0.63	18.4	4591	23.2	0.21	20.0
07 JULY	9594	43.4	0.32	17.9	5097	47.3	0.17	24.8
08 AUGUST	2544	31.8	0.27	26.1	1885	39.7	0.20	35.5
09 SEPTEMBER	13710	33.7	0.75	24.6	8592	34.8	0.47	26.4
10 OCTOBER	20611	26.2	0.65	20.4	11098	30.4	0.35	25.8
11 NOVEMBER	19952	23.0	1.14	13.3	4376	24.6	0.25	16.1
12 DECEMBER	14467	48.4	0.60	33.7	1688	67.4	0.07	54.2
TOTAL	**222113**				**78176**			

SUMMARY OF SPECIES CATCH STATISTICS - 2007

LAKE=DALE HOLLOW

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CHANNEL CATFISH	6350	54.9	2.9	4911	6186	54.7	7.9	4939	2.6	4.29	124
FLATHEAD CATFISH	303	573.8	0.1	101	84	1635.5	0.1	84	72.3	4.00	2
RAINBOW TROUT	875	154.0	0.4	875	875	154.0	1.1	875	0.0	2.31	19
BROWN TROUT	92	1217.6	0.0	92	92	1217.6	0.1	92	0.0	6.80	2
WHITE BASS	1534	161.6	0.7	0	841	197.1	1.1	0	45.2	2.23	20
BLUEGILL	28930	27.3	13.0	24176	15687	32.7	20.1	14114	45.8	0.43	389
REDEAR SUNFISH	18146	36.8	8.2	17940	14671	37.6	18.8	14468	19.2	0.50	361
SMALLMOUTH BASS	97792	11.3	44.0	89999	3435	31.2	4.4	3206	96.5	2.56	75
SPOTTED BASS	12985	28.9	5.8	9857	5397	36.5	6.9	4506	58.4	1.76	103
LARGEMOUTH BASS	14929	30.0	6.7	12538	3852	43.9	4.9	3402	74.2	2.81	77
WHITE CRAPPIE	7786	73.7	3.5	7215	3425	92.8	4.4	3267	56.0	1.02	65
BLACK CRAPPIE	6066	72.0	2.7	5857	4661	62.4	6.0	4460	23.2	1.06	116
BLACKNOSE CRAPPIE	11396	44.8	5.1	10476	8327	42.8	10.7	7788	26.9	1.18	198
WALLEYE	12201	27.8	5.5	11253	10338	30.1	13.2	9499	15.3	3.26	234
FRESHWATER DRUM	266	595.8	0.1	0	225	634.7	0.3	0	15.4	10.70	5

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2007

LAKE=DALE HOLLOW

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	4865	28.6	776	1.3	0.51	16.7	0.51	16.7	16
RAINBOW TROUT	708	64.5	118	0.2	0.00		0.00		2
ANY TROUT	5494	27.6	1030	1.4	0.19	37.7	0.19	37.7	14
ANY SUNFISH	17160	16.1	2696	4.5	3.42	19.1	2.35	23.1	57
ANY BLACK BASS	73017	9.3	11546	19.2	0.46	22.3	0.11	37.3	273
SMALLMOUTH BASS	159490	8.7	24663	41.9	0.46	14.0	0.01	59.0	501
SPOTTED BASS	313	100.6	50	0.1	1.79		1.19		1
LARGEMOUTH BASS	2295	36.6	359	0.6	0.67	60.0	0.25	83.2	10
ANY CRAPPIE	39224	11.9	6077	10.3	0.96	32.3	0.55	34.2	130
WALLEYE	37049	16.1	6876	9.7	0.31	20.0	0.26	20.5	162
ANY SPECIES	41254	13.0	6872	10.8	0.26	92.2	0.14	103.9	114
TOTAL	**380869**		**61063**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2007

LAKE=DALE HOLLOW

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	CHANNEL CATFISH	0.50	0.50
	FLATHEAD CATFISH	0.01	0.01
ANY TROUT			
	RAINBOW TROUT	0.17	0.17
	BROWN TROUT	0.02	0.02
ANY SUNFISH			
	BLUEGILL	1.96	1.16
	REDEAR SUNFISH	1.46	1.19
ANY BLACK BASS			
ANY BLACK BASS			
ANY BLACK BASS			
ANY BLACK BASS			
	ANY BLACK BASS	0.00	0.00
	SMALLMOUTH BASS	0.38	0.01
	SPOTTED BASS	0.04	0.02
	LARGEMOUTH BASS	0.05	0.01
ANY CRAPPIE			
	ANY CRAPPIE	0.00	0.00
	WHITE CRAPPIE	0.29	0.12
	BLACK CRAPPIE	0.24	0.16
	BLACKNOSE CRAPPIE	0.43	0.28

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=DALE HOLLOW

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.56	29
02 FEBRUARY	0		0	0.24	69
03 MARCH	5	0.10	14	0.34	161
04 APRIL	9	0.52	8	0.55	111
05 MAY	6	0.45	11	0.54	122
06 JUNE	0	0.00	2	0.72	37
07 JULY	0		0	0.27	18
08 AUGUST	0		0	0.39	13
09 SEPTEMBER	0		0	0.37	33
10 OCTOBER	24	0.30	10	0.33	60
11 NOVEMBER	7	2.47	5	0.89	36
12 DECEMBER	21	0.67	9	0.38	36

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2007

LAKE=DALE HOLLOW

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	8860	9580	18440	16
RAINBOW TROUT	1760	1650	3400	2
ANY TROUT	42600	24080	66680	14
ANY SUNFISH	65940	48320	114270	57
ANY BLACK BASS	444800	281640	726430	273
SMALLMOUTH BASS	1126270	635930	1762200	498
SPOTTED BASS	990	500	1490	1
LARGEMOUTH BASS	15950	13600	29550	10
ANY CRAPPIE	98240	77180	175420	128
WALLEYE	157900	149430	307330	160
ANY SPECIES	153970	120310	274090	113
TOTAL	**2117280**	**1362220**	**3479300**	**1272**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2007

LAKE=DALE HOLLOW

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
IN	186	7.1
KY	560	21.2
OH	440	16.7
TN	1247	47.3
OTHERS	203	7.7

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
CLAY	234	18.7
DAVIDSON	113	9.0
FENTRESS	65	5.2
OVERTON	212	16.9
PICKETT	174	13.9
PUTNAM	85	6.8
OTHERS IN TN	363	29.0
OUT-OF-STATE	5	0.4

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	817	31.0
B) 26-100	390	14.8
C) 101-250	531	20.1
D) > 250	898	34.1

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	1158	89.6
B) VACATION	133	10.3
C) BUSINESS	1	0.1
D) OTHER	1	0.1

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	665	51.4
B) 2-5	396	30.6
C) 6-10	200	15.5
D) 11-15	27	2.1
E) 16-20	2	0.2
F) >20	3	0.2

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MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2007

LAKE=NORRIS

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	25790	41.6	0.8	4951	0.1	7.7
02 FEBRUARY	8283	30.1	0.2	1893	0.1	2.5
03 MARCH	32559	36.1	1.0	5686	0.2	9.7
04 APRIL	10918	26.5	0.3	2186	0.1	3.3
05 MAY	43851	13.0	1.3	9068	0.3	13.1
06 JUNE	60704	9.8	1.8	11727	0.3	18.1
07 JULY	35583	28.2	1.0	7152	0.2	10.6
08 AUGUST	10103	83.7	0.3	2209	0.1	3.0
09 SEPTEMBER	39956	17.5	1.2	8191	0.2	11.9
10 OCTOBER	24073	8.3	0.7	4609	0.1	7.2
11 NOVEMBER	19702	20.2	0.6	3556	0.1	5.9
12 DECEMBER	23464	34.0	0.7	4308	0.1	7.0
TOTAL	**334986**			**65536**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2007

LAKE=NORRIS

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	21664	54.9	0.84	33.3	2063	88.3	0.08	68.7
02 FEBRUARY	497	76.8	0.06	63.8	0	.	0.00	.
03 MARCH	23442	43.5	0.72	23.0	5535	69.4	0.17	55.7
04 APRIL	6332	29.0	0.58	11.5	1310	51.8	0.12	43.6
05 MAY	50867	55.9	1.16	53.8	16225	85.5	0.37	83.6
06 JUNE	66774	21.3	1.10	18.8	18211	32.6	0.30	31.2
07 JULY	14945	63.5	0.42	55.3	1423	77.7	0.04	66.3
08 AUGUST	10103	114.8	1.00	60.6	202	83.7	0.02	0.0
09 SEPTEMBER	12786	28.0	0.32	21.4	1598	49.1	0.04	41.5
10 OCTOBER	11314	27.0	0.47	25.8	2648	51.1	0.11	52.4
11 NOVEMBER	12412	30.5	0.63	22.4	1379	101.9	0.07	97.8
12 DECEMBER	21118	46.7	0.90	30.2	939	47.9	0.04	33.9
TOTAL	**252254**				**51533**			

SUMMARY OF SPECIES CATCH STATISTICS - 2007

LAKE=NORRIS

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
ANY GAR	327	1117.6	0.1	0	0	.	0.0	0	100.0	.	0
CHANNEL CATFISH	13533	69.3	5.4	1177	3933	124.7	7.8	983	70.9	1.34	8
FLATHEAD CATFISH	184	661.1	0.1	0	184	661.1	0.4	0	0.0	2.20	1
WHITE BASS	1731	447.1	0.7	0	0	.	0.0	0	100.0	.	0
STRIPED BASS	13143	64.4	5.3	10933	1187	146.3	2.4	1039	91.0	7.79	8
ROCK BASS	504	890.9	0.2	0	0	.	0.0	0	100.0	.	0
BLUEGILL	75773	23.8	30.3	65728	24070	34.4	48.0	20727	68.2	0.27	108
REDEAR SUNFISH	381	714.5	0.2	0	256	882.2	0.5	0	32.8	1.30	1
SMALLMOUTH BASS	56308	23.0	22.5	50440	2589	85.5	5.2	2158	95.4	2.70	12
SPOTTED BASS	37368	33.6	14.9	30186	1899	42.6	3.8	1372	94.9	0.75	17
LARGEMOUTH BASS	25937	42.0	10.4	23457	1577	166.7	3.1	1183	93.9	1.70	4
WHITE CRAPPIE	2431	120.4	1.0	2309	1902	122.6	3.8	1766	21.8	0.84	14
BLACK CRAPPIE	12969	124.2	5.2	12489	6040	116.9	12.0	5926	53.4	0.74	41
BLACKNOSE CRAPPIE	1400	320.5	0.6	1400	1012	391.8	2.0	1012	27.7	0.53	5
WALLEYE	6389	103.5	2.6	4733	5500	105.3	11.0	4921	13.9	2.22	18
FRESHWATER DRUM	1357	354.9	0.5	493	0	.	0.0	0	100.0	.	0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2007

LAKE=NORRIS

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	2488	79.2	485	0.7	0.11		0.11		2
STRIPED BASS	41428	16.9	8174	12.4	0.28	101.1	0.04	163.4	60
ANY SUNFISH	21485	23.5	4293	6.4	4.01	40.6	1.47	63.8	17
ANY BLACK BASS	113634	11.2	22098	33.9	0.58	33.7	0.02	105.7	161
SMALLMOUTH BASS	28619	22.2	5375	8.5	0.44	26.2	0.01	194.1	56
LARGEMOUTH BASS	339	146.0	65	0.1	0.29		0.00		1
ANY CRAPPIE	20986	21.7	4040	6.3	0.83	159.5	0.45	168.7	34
WALLEYE	45729	15.2	9053	13.7	0.06	51.2	0.05	56.7	57
ANY SPECIES	60278	14.4	11954	18.0	0.65	102.8	0.10	128.0	53
TOTAL	**334986**		**65537**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2007

LAKE=NORRIS

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	CHANNEL CATFISH	0.11	0.11
	FLATHEAD CATFISH	0.00	0.00
ANY SUNFISH			
	BLUEGILL	4.01	1.47
	REDEAR SUNFISH	0.00	0.00
ANY BLACK BASS			
	SMALLMOUTH BASS	0.35	0.02
	SPOTTED BASS	0.21	0.01
	LARGEMOUTH BASS	0.16	0.01
ANY CRAPPIE			
	ANY CRAPPIE	0.00	0.00
	WHITE CRAPPIE	0.12	0.09
	BLACK CRAPPIE	0.64	0.31
	BLACKNOSE CRAPPIE	0.07	0.05

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=NORRIS

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.31	25
02 FEBRUARY	0		0	0.08	7
03 MARCH	56	0.67	19	0.65	29
04 APRIL	0		0	0.65	16
05 MAY	0		0	0.84	13
06 JUNE	0		0	0.24	9
07 JULY	15	0.00	1	0.12	11
08 AUGUST	9	0.00	3	0.92	5
09 SEPTEMBER	0		0	0.49	14
10 OCTOBER	0		0	0.89	8
11 NOVEMBER	31	0.36	5	0.63	19
12 DECEMBER	17	0.41	5	0.59	29

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2007

LAKE=NORRIS

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	3590	4170	7760	2
STRIPED BASS	134910	196100	331010	34
ANY SUNFISH	54890	92860	147750	13
ANY BLACK BASS	614920	491530	1106460	108
SMALLMOUTH BASS	94620	111290	201300	24
LARGEMOUTH BASS	3260	9770	13030	1
ANY CRAPPIE	46790	18470	65260	17
WALLEYE	176350	65250	241610	27
ANY SPECIES	222540	102100	324630	39
TOTAL	**1351870**	**1091540**	**2438810**	**265**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2007

LAKE=NORRIS

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
KY	53	6.6
TN	692	86.2
OTHERS	58	7.2

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
ANDERSON	167	24.7
CAMPBELL	161	23.9
CLAIBORNE	114	16.9
KNOX	107	15.9
UNION	52	7.7
OTHERS IN TN	74	11.0

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	586	73.7
B) 26-100	136	17.1
C) 101-250	19	2.4
D) > 250	54	6.8

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	430	98.2
B) VACATION	8	1.8

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	398	91.3
B) 2-5	27	6.2
C) 6-10	10	2.3
D) 11-15	1	0.2

DOUGLAS
RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2007

LAKE=DOUGLAS

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	44243	32.7	1.4	9485	0.3	7.8
02 FEBRUARY	13780	29.0	0.5	3598	0.1	2.4
03 MARCH	63734	19.2	2.1	11767	0.4	11.2
04 APRIL	54764	15.3	1.8	10065	0.3	9.7
05 MAY	71317	27.6	2.3	14504	0.5	12.6
06 JUNE	67931	11.4	2.2	12308	0.4	12.0
07 JULY	71210	17.4	2.3	13264	0.4	12.6
08 AUGUST	37305	12.9	1.2	7208	0.2	6.6
09 SEPTEMBER	43901	18.5	1.4	7417	0.2	7.7
10 OCTOBER	38930	10.2	1.3	7441	0.2	6.9
11 NOVEMBER	35773	20.1	1.2	6979	0.2	6.3
12 DECEMBER	24117	22.7	0.8	5289	0.2	4.3
TOTAL	**567005**			**109325**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2007

LAKE=DOUGLAS

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	76098	34.9	1.72	11.4	20794	35.7	0.47	13.5
02 FEBRUARY	18190	34.2	1.32	17.4	5099	40.5	0.37	26.9
03 MARCH	109622	21.2	1.72	8.9	32504	26.6	0.51	18.0
04 APRIL	92004	20.1	1.68	12.8	20263	26.2	0.37	20.8
05 MAY	151192	28.6	2.12	7.0	59906	30.0	0.84	11.4
06 JUNE	200396	14.4	2.95	8.7	86952	15.1	1.28	9.7
07 JULY	101830	19.7	1.43	9.2	30620	24.8	0.43	17.5
08 AUGUST	49989	19.6	1.34	14.6	12311	24.7	0.33	20.6
09 SEPTEMBER	60144	22.8	1.37	13.0	13609	24.8	0.31	16.3
10 OCTOBER	58395	12.7	1.50	7.5	14793	18.5	0.38	15.5
11 NOVEMBER	85140	23.2	2.38	11.5	39350	29.6	1.10	21.3
12 DECEMBER	39552	24.5	1.64	9.0	14953	30.5	0.62	19.9
TOTAL	**1042552**				**351154**			

SUMMARY OF SPECIES CATCH STATISTICS - 2007

LAKE=DOUGLAS

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
ALEWIFE	3014	287.7	0.3	0	1015	330.8	0.3	0	66.3	0.65	22
GIZZARD SHAD	37	3410.1	0.0	0	37	3410.1	0.0	0	0.0	1.25	1
CARP	185	1836.7	0.0	0	0	.	0.0	0	100.0	.	0
BLACK BULLHEAD	939	559.7	0.1	939	832	582.7	0.2	832	11.4	2.58	13
BLUE CATFISH	152	1706.7	0.0	76	152	1706.7	0.0	76	0.0	2.85	2
CHANNEL CATFISH	55951	19.4	5.4	40152	34960	22.7	10.0	25854	37.5	1.66	549
FLATHEAD CATFISH	3349	169.6	0.3	3148	2920	175.8	0.8	2787	12.8	2.59	44
WHITE BASS	66935	20.2	6.4	38278	19094	31.0	5.4	15126	71.5	1.12	409
STRIPED BASS	319	1422.3	0.0	0	106	1812.2	0.0	0	66.8	0.93	3
CHEROKEE BASS	35	3172.0	0.0	0	35	3172.0	0.0	0	0.0	3.85	1
BLUEGILL	197068	11.5	18.9	135809	109311	14.4	31.1	85625	44.5	0.28	1710
REDEAR SUNFISH	657	1251.3	0.1	0	303	1710.8	0.1	0	53.9	0.29	4
SMALLMOUTH BASS	15287	59.5	1.5	10934	0	.	0.0	0	100.0	.	0
LARGEMOUTH BASS	283024	7.7	27.2	245924	17213	18.1	4.9	8029	93.9	1.45	309
WHITE CRAPPIE	297778	7.8	28.6	280218	118957	11.2	33.9	114538	60.1	0.64	2600
BLACK CRAPPIE	57343	21.6	5.5	55049	31945	25.4	9.1	30867	44.3	0.81	726
BLACKNOSE CRAPPIE	1519	625.3	0.1	1519	824	708.6	0.2	824	45.8	0.93	17
YELLOW PERCH	35	3172.0	0.0	0	35	3172.0	0.0	0	0.0	0.30	1
SAUGER	31966	33.9	3.1	14841	6805	56.0	1.9	3380	78.7	1.27	150
WALLEYE	13948	66.5	1.3	5698	3008	109.9	0.9	1316	78.4	1.89	46
FRESHWATER DRUM	7693	125.4	0.7	237	2408	194.5	0.7	181	68.7	1.94	40

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2007

LAKE=DOUGLAS

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	46155	14.1	8830	8.1	1.03	12.0	0.70	11.9	106
WHITE BASS	14397	20.1	2738	2.5	2.71	17.1	1.12	36.1	31
ANY SUNFISH	31338	14.9	5936	5.5	5.23	10.7	3.32	14.3	74
ANY BLACK BASS	116281	8.3	21846	20.5	0.91	7.2	0.03	40.6	403
LARGEMOUTH BASS	88444	11.0	17241	15.6	1.13	7.4	0.01	155.8	248
ANY CRAPPIE	227504	7.4	44492	40.1	1.89	13.5	0.85	23.9	656
SAUGER	15001	19.5	2972	2.6	0.85	22.4	0.21	30.5	38
WALLEYE	5178	28.7	948	0.9	1.21	16.0	0.26	28.0	14
ANY SPECIES	22707	15.2	4323	4.0	0.93	28.8	0.56	30.2	36
TOTAL	**567005**		**109326**						

SUMMARY OF RELATIVE SPECIES CATCH RATES
WITHIN TARGET GROUPS - 2007

LAKE=DOUGLAS

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	BLACK BULLHEAD	0.02	0.02
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.00	0.00
	CHANNEL CATFISH	0.93	0.61
	FLATHEAD CATFISH	0.07	0.07
ANY SUNFISH			
	BLUEGILL	5.23	3.32
	REDEAR SUNFISH	0.00	0.00
ANY BLACK BASS			
	SMALLMOUTH BASS	0.05	0.00
	LARGEMOUTH BASS	1.20	0.04
ANY CRAPPIE			
	ANY CRAPPIE	0.00	0.00
	WHITE CRAPPIE	1.57	0.67
	BLACK CRAPPIE	0.31	0.18
	BLACKNOSE CRAPPIE	0.01	0.00

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=DOUGLAS

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	1.17	27
02 FEBRUARY	0		0	0.76	12
03 MARCH	22	0.80	6	0.67	26
04 APRIL	11	1.58	5	1.36	45
05 MAY	14	1.03	6	1.25	50
06 JUNE	26	1.39	13	1.00	58
07 JULY	28	0.65	13	0.88	74
08 AUGUST	23	0.87	11	0.65	57
09 SEPTEMBER	71	0.92	43	0.77	40
10 OCTOBER	38	1.36	18	1.07	54
11 NOVEMBER	35	1.07	14	0.95	43
12 DECEMBER	0		0	1.16	32

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2007

LAKE=DOUGLAS

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	23200	45480	68680	100
WHITE BASS	27880	29830	57710	30
ANY SUNFISH	12640	52330	64970	73
ANY BLACK BASS	610600	418280	1028890	398
LARGEMOUTH BASS	402820	247980	650790	241
ANY CRAPPIE	229760	383460	613220	644
SAUGER	28030	31990	60020	37
WALLEYE	5010	7470	12480	14
ANY SPECIES	8120	11520	19640	32
TOTAL	**1348060**	**1228340**	**2576400**	**1569**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2007

LAKE=DOUGLAS

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	2878	88.9
OTHERS	358	11.1

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
COCKE	410	14.3
HAMBLEN	346	12.0
JEFFERSON	766	26.7
KNOX	446	15.5
SEVIER	368	12.8
OTHERS IN TN	537	18.7
OUT-OF-STATE	1	0.0

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	2253	69.6
B) 26-100	866	26.8
C) 101-250	70	2.2
D) > 250	46	1.4

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	1599	99.3
B) VACATION	12	0.7

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	1563	97.0
B) 2-5	48	3.0
D) 11-15	1	0.1

MELTON HILL RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2007

LAKE=MELTON HILL

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	2661	41.5	0.5	741	0.1	3.6
02 FEBRUARY	1149	51.2	0.2	340	0.1	1.5
03 MARCH	4833	21.6	0.8	1097	0.2	6.5
04 APRIL	9500	38.7	1.7	2262	0.4	12.8
05 MAY	11384	5.2	2.0	2425	0.4	15.3
06 JUNE	7928	18.9	1.4	2201	0.4	10.7
07 JULY	10149	13.6	1.8	2944	0.5	13.7
08 AUGUST	4863	0.0	0.9	1444	0.3	6.6
09 SEPTEMBER	8128	11.8	1.4	1915	0.3	11.0
10 OCTOBER	7103	36.0	1.2	1752	0.3	9.6
11 NOVEMBER	6487	31.9	1.1	1922	0.3	8.7
TOTAL	**74185**			**19043**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2007

LAKE=MELTON HILL

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	2129	45.1	0.80	16.5	186	102.7	0.07	81.5
02 FEBRUARY	0	.	0.00	.	0	.	0.00	.
03 MARCH	5655	32.8	1.17	24.1	483	44.9	0.10	40.2
04 APRIL	7885	56.0	0.83	37.8	1140	77.2	0.12	61.4
05 MAY	15255	10.3	1.34	8.8	1138	9.6	0.10	8.2
06 JUNE	6977	31.0	0.88	24.2	79	65.4	0.01	63.2
07 JULY	10048	25.7	0.99	21.7	203	67.6	0.02	79.8
08 AUGUST	1216	98.9	0.25	100.0	0	.	0.00	.
09 SEPTEMBER	7315	15.8	0.90	10.4	813	75.3	0.10	76.2
10 OCTOBER	6890	53.0	0.97	36.6	497	74.2	0.07	57.2
11 NOVEMBER	4995	35.1	0.77	13.8	0	.	0.00	.
TOTAL	**68365**				**4539**			

SUMMARY OF SPECIES CATCH STATISTICS - 2007

LAKE=MELTON HILL

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
SKIPJACK HERRING	55	634.9	0.1	0	0	.	0.0	0	100.0	.	0
CARP	923	216.7	1.3	923	0	.	0.0	0	100.0	.	0
MUSKELLUNGE	118	492.1	0.2	118	0	.	0.0	0	100.0	.	0
WHITE BASS	1082	234.3	1.6	618	0	.	0.0	0	100.0	.	0
YELLOW BASS	710	210.5	1.0	152	361	159.0	8.0	0	49.2	0.43	8
STRIPED BASS	1554	137.2	2.3	799	40	105.8	0.9	40	97.4	38.80	1
BLUEGILL	14980	25.4	21.9	12769	725	62.1	16.0	725	95.2	0.45	16
SMALLMOUTH BASS	4252	66.2	6.2	4059	0	.	0.0	0	100.0	.	0
SPOTTED BASS	1405	198.8	2.1	859	0	.	0.0	0	100.0	.	0
LARGEMOUTH BASS	23463	19.6	34.3	21531	141	56.9	3.1	106	99.4	2.76	4
WHITE CRAPPIE	15031	24.9	21.9	14681	2810	25.6	61.9	2810	81.3	0.75	82
BLACK CRAPPIE	918	199.1	1.3	918	191	153.2	4.2	191	79.2	0.86	5
YELLOW PERCH	117	867.5	0.2	117	0	.	0.0	0	100.0	.	0
FRESHWATER DRUM	370	446.8	0.5	370	0	.	0.0	0	100.0	.	0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2007

LAKE=MELTON HILL

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	1877	35.3	460	2.5	0.72	51.4	0.08	0.0	12
MUSKELLUNGE	3802	24.9	969	5.1	0.02	95.0	0.00		35
WHITE BASS	71	117.2	16	0.1	1.00		0.00		1
STRIPED BASS	4159	26.2	1165	5.6	0.10	52.8	0.03	173.3	17
ANY SUNFISH	796	45.3	201	1.1	1.80	56.2	0.00		4
ANY BLACK BASS	23804	11.0	6161	32.1	0.97	31.9	0.00	248.2	133
ANY CRAPPIE	14995	14.0	3730	20.2	0.95	27.1	0.24	56.4	94
ANY SPECIES	24517	11.0	6297	33.0	0.85	26.5	0.04	133.0	121
OTHER	164	94.0	40	0.2	0.00		0.00		2
TOTAL	**74185**		**19039**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2007

LAKE=MELTON HILL

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY CATFISH	0.00	0.00
ANY SUNFISH			
	BLUEGILL	1.80	0.00
ANY BLACK BASS			
	SMALLMOUTH BASS	0.17	0.00
	SPOTTED BASS	0.04	0.00
	LARGEMOUTH BASS	0.90	0.00
ANY CRAPPIE			
	WHITE CRAPPIE	0.89	0.22
	BLACK CRAPPIE	0.06	0.02

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=MELTON HILL

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.79	10
02 FEBRUARY	0		0	0.00	1
03 MARCH	0		0	1.67	10
04 APRIL	0		0	1.58	12
05 MAY	0		0	1.49	22
06 JUNE	17	1.00	4	0.67	16
07 JULY	0		0	0.88	15
08 AUGUST	28	0.38	2	0.15	2
09 SEPTEMBER	2	0.00	3	0.61	14
10 OCTOBER	0		0	1.06	18
11 NOVEMBER	0		0	0.64	4

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2007

LAKE=MELTON HILL

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	5550	7300	12860	12
MUSKELLUNGE	16960	21260	38210	35
WHITE BASS	80	80	160	1
STRIPED BASS	13630	23000	36630	17
ANY SUNFISH	2270	0	2270	4
ANY BLACK BASS	110260	54270	164530	133
ANY CRAPPIE	53160	25320	78480	94
ANY SPECIES	55950	22780	78730	121
OTHER	500	400	900	2
TOTAL	**258360**	**154410**	**412770**	**419**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2007

LAKE=MELTON HILL

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	703	97.9
OTHERS	15	2.1

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
ANDERSON	267	38.0
KNOX	368	52.3
LOUDON	42	6.0
OTHERS IN TN	26	3.7

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	670	93.6
B) 26-100	31	4.3
C) 101-250	5	0.7
D) > 250	10	1.4

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	407	97.1
B) VACATION	12	2.9

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	399	95.2
B) 2-5	16	3.8
C) 6-10	3	0.7
F) >20	1	0.2

TELLICO
RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2007

LAKE=TELLICO

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	2147	33.5	0.1	502	0.0	1.1
02 FEBRUARY	3875	36.3	0.2	1049	0.1	2.0
03 MARCH	14767	20.8	0.9	2690	0.2	7.8
04 APRIL	25918	21.9	1.6	4940	0.3	13.6
05 MAY	34296	17.8	2.1	6963	0.4	18.0
06 JUNE	28493	31.0	1.8	6642	0.4	15.0
07 JULY	26608	34.4	1.7	6999	0.4	14.0
08 AUGUST	12122	16.3	0.8	2912	0.2	6.4
09 SEPTEMBER	14267	8.3	0.9	2844	0.2	7.5
10 OCTOBER	18667	20.3	1.2	4067	0.3	9.8
11 NOVEMBER	9286	21.6	0.6	2501	0.2	4.9
TOTAL	**190446**			**42109**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2007

LAKE=TELLICO

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	2469	49.5	1.15	34.6	601	48.6	0.28	33.0
02 FEBRUARY	7053	58.0	1.82	42.6	1279	77.1	0.33	63.8
03 MARCH	20378	30.3	1.38	21.5	5021	43.7	0.34	37.4
04 APRIL	36804	27.2	1.42	15.8	7257	50.4	0.28	44.8
05 MAY	48357	25.6	1.41	18.1	2401	47.2	0.07	44.1
06 JUNE	29918	35.6	1.05	16.7	855	71.1	0.03	55.9
07 JULY	30865	45.0	1.16	27.5	3193	68.0	0.12	53.3
08 AUGUST	14668	42.3	1.21	38.4	4364	58.0	0.36	55.1
09 SEPTEMBER	29390	20.7	2.06	18.9	4137	42.2	0.29	40.7
10 OCTOBER	17360	30.8	0.93	22.8	1120	66.8	0.06	59.2
11 NOVEMBER	14950	22.4	1.61	5.8	2786	51.1	0.30	45.1
TOTAL	**252212**				**33014**			

SUMMARY OF SPECIES CATCH STATISTICS - 2007

LAKE=TELLICO

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CARP	650	435.6	0.3	650	0	.	0.0	0	100.0	.	0
WHITE BASS	605	551.8	0.2	76	0	.	0.0	0	100.0	.	0
STRIPED BASS	3866	159.0	1.5	2651	43	519.3	0.1	0	98.9	3.15	1
ROCK BASS	275	1087.9	0.1	0	0	.	0.0	0	100.0	.	0
BLUEGILL	28924	33.5	11.5	24398	3798	58.7	11.5	3488	86.9	0.49	49
SMALLMOUTH BASS	10325	72.9	4.1	9864	0	.	0.0	0	100.0	.	0
SPOTTED BASS	27631	31.5	11.0	25831	0	.	0.0	0	100.0	.	0
LARGEMOUTH BASS	68592	16.4	27.2	65020	1250	47.5	3.8	1250	98.2	1.94	19
WHITE CRAPPIE	105553	12.8	41.9	104925	26804	19.3	81.2	26673	74.6	0.69	408
BLACK CRAPPIE	1164	177.1	0.5	1164	864	152.6	2.6	864	25.8	0.73	13
YELLOW PERCH	349	918.4	0.1	116	0	.	0.0	0	100.0	.	0
WALLEYE	443	477.4	0.2	443	82	284.0	0.2	82	81.5	4.08	3
FRESHWATER DRUM	138	1536.2	0.1	0	0	.	0.0	0	100.0	.	0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2007

LAKE=TELLICO

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	940	70.2	236	0.5	0.00		0.00		2
ANY TROUT	285	150.5	66	0.1	0.00		0.00		1
STRIPED BASS	983	77.2	242	0.5	0.23		0.00		2
ANY SUNFISH	1553	64.5	375	0.8	2.73		0.63		2
ANY BLACK BASS	80036	10.5	17509	42.0	1.15	17.1	0.02	92.4	243
ANY CRAPPIE	63333	9.5	13855	33.3	1.79	21.9	0.55	31.2	189
WALLEYE	2523	38.4	590	1.3	0.17	72.1	0.02	0.0	9
ANY SPECIES	40795	14.7	9239	21.4	1.20	24.8	0.16	107.1	83
TOTAL	**190448**		**42112**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2007

LAKE=TELLICO

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY CATFISH	0.00	0.00
ANY TROUT			
ANY SUNFISH			
	BLUEGILL	2.73	0.63
ANY BLACK BASS			
	SMALLMOUTH BASS	0.12	0.00
	SPOTTED BASS	0.32	0.00
	LARGEMOUTH BASS	0.81	0.02
ANY CRAPPIE			
	WHITE CRAPPIE	1.77	0.53
	BLACK CRAPPIE	0.02	0.02

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=TELLICO

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.30	7
02 FEBRUARY	0		0	0.24	5
03 MARCH	19	1.82	6	1.48	22
04 APRIL	30	1.38	7	1.26	28
05 MAY	2	0.83	4	1.39	42
06 JUNE	8	0.81	5	1.02	24
07 JULY	6	1.05	3	1.08	27
08 AUGUST	0		0	0.92	11
09 SEPTEMBER	0		0	1.37	22
10 OCTOBER	12	0.24	2	1.04	26
11 NOVEMBER	0		0	0.38	2

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2007

LAKE=TELLICO

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	3210	1630	4840	2
ANY TROUT	660	1330	1990	1
STRIPED BASS	3890	3230	7120	2
ANY SUNFISH	3080	1870	4950	2
ANY BLACK BASS	389330	252340	641670	243
ANY CRAPPIE	182140	109950	292080	189
WALLEYE	13310	7790	21090	9
ANY SPECIES	84010	40740	124750	83
TOTAL	**679630**	**418880**	**1098490**	**531**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2007

LAKE=TELLICO

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	924	97.7
OTHERS	22	2.3

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BLOUNT	421	45.6
KNOX	71	7.7
LOUDON	155	16.8
MONROE	214	23.2
OTHERS IN TN	63	6.8

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	849	89.7
B) 26-100	76	8.0
C) 101-250	4	0.4
D) > 250	17	1.8

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	523	98.9
B) VACATION	6	1.1

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	507	95.7
B) 2-5	14	2.6
C) 6-10	6	1.1
D) 11-15	3	0.6

BOONE
RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2007

LAKE=BOONE

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	4327	17.5	1.0	663	0.1	5.1
02 FEBRUARY	3822	16.3	0.8	622	0.1	4.5
03 MARCH	8574	8.9	1.9	1301	0.3	10.2
04 APRIL	8499	12.5	1.9	1292	0.3	10.1
05 MAY	8832	7.6	2.0	1417	0.3	10.5
06 JUNE	8972	5.6	2.0	1426	0.3	10.7
07 JULY	10154	18.7	2.2	1584	0.4	12.1
08 AUGUST	6584	11.9	1.5	979	0.2	7.8
09 SEPTEMBER	8437	17.0	1.9	1248	0.3	10.0
10 OCTOBER	5642	10.9	1.2	858	0.2	6.7
11 NOVEMBER	5525	12.0	1.2	862	0.2	6.6
12 DECEMBER	4730	11.8	1.0	770	0.2	5.6
TOTAL	**84098**			**13022**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2007

LAKE=BOONE

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	865	33.1	0.20	27.3	87	36.4	0.02	36.5
02 FEBRUARY	1185	35.4	0.31	31.4	76	19.4	0.02	10.6
03 MARCH	1372	16.5	0.16	14.1	171	43.4	0.02	49.9
04 APRIL	1445	19.6	0.17	15.3	255	45.8	0.03	42.3
05 MAY	2208	21.5	0.25	20.0	883	53.4	0.10	53.3
06 JUNE	2512	22.9	0.28	22.4	449	37.6	0.05	40.2
07 JULY	2742	25.5	0.27	16.9	406	58.3	0.04	60.3
08 AUGUST	2041	31.8	0.31	29.2	132	54.0	0.02	48.7
09 SEPTEMBER	2278	28.3	0.27	22.5	422	42.2	0.05	40.7
10 OCTOBER	1749	22.7	0.31	19.8	226	34.0	0.04	36.1
11 NOVEMBER	1381	25.3	0.25	22.2	111	31.3	0.02	26.1
12 DECEMBER	1183	27.9	0.25	24.9	142	47.9	0.03	55.3
TOTAL	**20961**				**3360**			

SUMMARY OF SPECIES CATCH STATISTICS - 2007

LAKE=BOONE

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CARP	103	280.3	0.5	0	58	184.2	1.7	0	43.7	11.20	2
BLUE CATFISH	19	348.4	0.1	19	19	348.4	0.6	19	0.0	13.35	1
CHANNEL CATFISH	837	67.1	4.0	747	652	59.5	19.4	652	22.1	2.93	26
FLATHEAD CATFISH	101	255.0	0.5	101	101	255.0	3.0	101	0.0	10.29	4
RAINBOW TROUT	192	276.5	0.9	17	0	.	0.0	0	100.0	.	0
BROWN TROUT	157	308.0	0.7	16	10	183.0	0.3	0	93.6	4.85	1
ANY TEMPERATE BASS	23	950.4	0.1	23	0	.	0.0	0	100.0	.	0
STRIPED BASS	463	119.6	2.2	356	94	109.4	2.8	94	79.7	10.55	6
CHEROKEE BASS	669	88.0	3.2	242	208	96.7	6.2	185	68.9	3.03	9
BLUEGILL	2820	34.5	13.3	1893	806	43.2	24.0	806	71.4	0.22	28
SMALLMOUTH BASS	6934	12.4	32.8	6902	453	26.0	13.5	453	93.5	2.40	25
LARGEMOUTH BASS	8120	11.3	38.4	8032	550	25.2	16.4	550	93.2	2.84	26
WHITE CRAPPIE	83	258.8	0.4	83	66	281.9	2.0	66	20.5	1.08	2
BLACK CRAPPIE	584	99.6	2.8	478	313	100.2	9.3	313	46.4	0.86	16
BLACKNOSE CRAPPIE	44	379.8	0.2	44	27	234.2	0.8	27	38.6	0.95	2

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2007

LAKE=BOONE

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	1978	25.3	305	2.4	0.24	43.5	0.24	43.5	18
ANY TEMPERATE BASS	7638	12.5	1185	9.1	0.05	82.1	0.03	128.2	59
WHITE BASS	125	91.7	19	0.1	0.00		0.00		1
STRIPED BASS	8798	11.5	1358	10.5	0.05	79.6	0.01	140.2	68
CHEROKEE BASS	260	77.0	40	0.3	0.42		0.13		2
ANY SUNFISH	1955	25.9	298	2.3	2.16	39.2	0.55	97.0	17
ANY BLACK BASS	47724	5.3	7387	56.8	0.31	12.7	0.01	71.8	386
SMALLMOUTH BASS	1628	24.7	258	1.9	0.22	25.7	0.12	42.0	20
ANY CRAPPIE	8783	11.7	1361	10.4	0.14	84.0	0.09	99.3	87
ANY SPECIES	4927	15.6	764	5.9	0.26	90.4	0.14	132.9	56
OTHER	279	63.9	44	0.3	0.00		0.00		4
TOTAL	**84095**		**13019**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2007

LAKE=BOONE

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	BLUE CATFISH	0.01	0.01
	CHANNEL CATFISH	0.21	0.20
	FLATHEAD CATFISH	0.03	0.03
ANY TEMPERATE BASS			
	STRIPED BASS	0.03	0.01
	CHEROKEE BASS	0.02	0.02
ANY SUNFISH			
	BLUEGILL	2.16	0.55
ANY BLACK BASS			
ANY BLACK BASS			
	SMALLMOUTH BASS	0.14	0.01
	LARGEMOUTH BASS	0.16	0.01
ANY CRAPPIE			
	WHITE CRAPPIE	0.02	0.01
	BLACK CRAPPIE	0.11	0.07
	BLACKNOSE CRAPPIE	0.01	0.01

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=BOONE

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.38	31
02 FEBRUARY	0		0	0.28	25
03 MARCH	0		0	0.25	44
04 APRIL	13	0.27	5	0.27	37
05 MAY	32	0.41	6	0.26	29
06 JUNE	10	0.32	5	0.31	34
07 JULY	27	0.36	8	0.33	33
08 AUGUST	5	0.18	2	0.29	28
09 SEPTEMBER	17	0.37	6	0.34	27
10 OCTOBER	0		0	0.34	29
11 NOVEMBER	0		0	0.32	27
12 DECEMBER	0		0	0.27	29

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2007

LAKE=BOONE

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	4270	2440	6700	18
ANY TEMPERATE BASS	13990	9530	23520	59
WHITE BASS	190	190	380	1
STRIPED BASS	15080	13910	28990	68
CHEROKEE BASS	550	390	940	2
ANY SUNFISH	1960	1690	3650	17
ANY BLACK BASS	106840	51280	158120	383
SMALLMOUTH BASS	2810	3250	6060	20
ANY CRAPPIE	13860	14070	27930	87
ANY SPECIES	6800	7340	14150	56
OTHER	610	440	1060	4
TOTAL	**166960**	**104530**	**271500**	**715**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2007

LAKE=BOONE

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	1015	84.7
VA	157	13.1
OTHERS	27	2.3

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
CARTER	52	5.1
SULLIVAN	465	45.9
WASHINGTON	422	41.6
OTHERS IN TN	74	7.3
OUT-OF-STATE	1	0.1

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	914	76.3
B) 26-100	265	22.1
C) 101-250	8	0.7
D) > 250	11	0.9

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	713	99.3
B) VACATION	5	0.7

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	710	99.0
B) 2-5	6	0.8
C) 6-10	1	0.1

SOUTH HOLSTON RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2007

LAKE=SOUTH HOLSTON

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	6850	13.3	1.1	1049	0.2	5.6
02 FEBRUARY	6944	23.1	1.1	1028	0.2	5.7
03 MARCH	10851	16.6	1.7	1772	0.3	8.9
04 APRIL	11188	24.6	1.8	1762	0.3	9.2
05 MAY	12628	16.0	2.0	1988	0.3	10.4
06 JUNE	12612	22.3	2.0	1958	0.3	10.3
07 JULY	16656	15.3	2.6	2525	0.4	13.7
08 AUGUST	8865	9.0	1.4	1369	0.2	7.3
09 SEPTEMBER	10775	20.1	1.7	1632	0.3	8.8
10 OCTOBER	7719	15.0	1.2	1213	0.2	6.3
11 NOVEMBER	7839	13.7	1.2	1229	0.2	6.4
12 DECEMBER	8999	23.6	1.4	1341	0.2	7.4
TOTAL	**121926**			**18866**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2007

LAKE=SOUTH HOLSTON

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	1096	21.7	0.16	16.7	137	30.4	0.02	34.1
02 FEBRUARY	1805	27.5	0.26	14.7	347	55.6	0.05	51.8
03 MARCH	1736	22.3	0.16	15.0	434	31.8	0.04	28.0
04 APRIL	1119	34.8	0.10	23.9	224	44.4	0.02	35.1
05 MAY	1515	28.2	0.12	22.7	126	44.0	0.01	30.9
06 JUNE	1640	39.4	0.13	31.9	252	34.4	0.02	28.9
07 JULY	2165	27.9	0.13	22.4	333	41.9	0.02	50.4
08 AUGUST	1064	37.1	0.12	36.5	177	20.1	0.02	16.2
09 SEPTEMBER	2586	39.6	0.24	33.7	216	42.3	0.02	39.9
10 OCTOBER	2084	34.1	0.27	30.6	1389	54.3	0.18	52.0
11 NOVEMBER	1568	22.2	0.20	17.0	314	51.8	0.04	48.5
12 DECEMBER	1530	35.7	0.17	26.0	180	77.6	0.02	62.4
TOTAL	**19908**				**4129**			

SUMMARY OF SPECIES CATCH STATISTICS - 2007

LAKE=SOUTH HOLSTON

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CHANNEL CATFISH	741	91.2	3.7	456	483	96.5	11.7	446	34.8	2.93	13
FLATHEAD CATFISH	85	186.7	0.4	57	85	186.7	2.1	57	0.0	10.73	3
MUSKELLUNGE	66	467.3	0.3	0	0	.	0.0	0	100.0	.	0
RAINBOW TROUT	587	97.4	2.9	281	251	76.5	6.1	251	57.2	1.65	8
BROWN TROUT	370	146.2	1.8	44	36	351.2	0.9	36	90.3	1.70	1
BLUEGILL	1343	78.7	6.7	746	209	85.8	5.1	149	84.4	0.26	7
SMALLMOUTH BASS	11527	11.0	57.2	11346	1632	29.8	39.5	1559	85.8	2.44	45
LARGEMOUTH BASS	3741	22.1	18.6	3692	422	59.6	10.2	422	88.7	2.11	10
BLACK CRAPPIE	670	112.6	3.3	542	417	129.7	10.1	417	37.8	0.89	12
WALLEYE	1009	59.8	5.0	584	598	57.8	14.5	598	40.7	3.35	18

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2007

LAKE=SOUTH HOLSTON

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	3106	24.5	480	2.5	0.12		0.12		9
RAINBOW TROUT	368	78.9	58	0.3	0.00		0.00		3
ANY TROUT	10099	15.7	1574	8.3	0.08	95.5	0.06	100.8	53
ANY SUNFISH	792	56.5	120	0.6	1.52		0.35		2
ANY BLACK BASS	64527	6.8	9989	52.9	0.26	16.5	0.01	105.7	309
SMALLMOUTH BASS	4376	21.7	669	3.6	0.25	27.9	0.14	61.2	27
LARGEMOUTH BASS	280	97.9	42	0.2	0.25		0.25		1
ANY CRAPPIE	7564	17.3	1174	6.2	0.13	78.6	0.09	79.0	47
WALLEYE	21543	10.9	3335	17.7	0.04	77.4	0.04	85.8	102
ANY SPECIES	9271	15.9	1427	7.6	0.11	102.9	0.03	188.4	52
TOTAL	**121926**		**18868**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2007

LAKE=SOUTH HOLSTON

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	CHANNEL CATFISH	0.11	0.11
	FLATHEAD CATFISH	0.01	0.01
ANY TROUT			
	RAINBOW TROUT	0.07	0.05
	BROWN TROUT	0.01	0.01
ANY SUNFISH			
	BLUEGILL	1.52	0.35
ANY BLACK BASS			
	SMALLMOUTH BASS	0.16	0.02
	LARGEMOUTH BASS	0.05	0.01
	LARGEMOUTH BASS	0.05	0.01
ANY CRAPPIE			
	BLACK CRAPPIE	0.13	0.09

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=SOUTH HOLSTON

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	14	0.32	6	0.27	26
02 FEBRUARY	17	0.32	4	0.28	20
03 MARCH	0		0	0.22	32
04 APRIL	0		0	0.22	25
05 MAY	7	0.21	3	0.23	29
06 JUNE	28	0.41	4	0.19	21
07 JULY	0		0	0.27	33
08 AUGUST	0		0	0.14	21
09 SEPTEMBER	27	0.35	5	0.32	24
10 OCTOBER	0		0	0.27	25
11 NOVEMBER	0		0	0.29	31
12 DECEMBER	37	0.41	7	0.27	21

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2007

LAKE=SOUTH HOLSTON

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	2960	1770	4730	9
RAINBOW TROUT	780	870	1650	3
ANY TROUT	12740	13250	25990	53
ANY SUNFISH	530	420	960	1
ANY BLACK BASS	136890	73650	210540	308
SMALLMOUTH BASS	6160	5350	11510	27
LARGEMOUTH BASS	1270	210	1490	1
ANY CRAPPIE	11200	11800	23000	47
WALLEYE	37930	32060	69990	102
ANY SPECIES	6180	14020	20200	51
TOTAL	**216640**	**153400**	**370060**	**602**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2007

LAKE=SOUTH HOLSTON

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	758	73.2
VA	262	25.3
OTHERS	16	1.5

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
CARTER	59	7.8
JOHNSON	83	11.0
SULLIVAN	555	73.6
WASHINGTON	53	7.0
OTHERS IN TN	4	0.5

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	880	84.9
B) 26-100	140	13.5
C) 101-250	9	0.9
D) > 250	7	0.7

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	601	99.5
B) VACATION	3	0.5

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	601	99.3
B) 2-5	4	0.7

Appendix I

Field Data Collection Forms

Tennessee Wildlife Resources Agency
Reservoir Angler Count

1. Calendar Date____/____/____
   mm dd yy

2. Day Period: am or pm (Circle One)

3. Reservoir _____ (Code)

4. Area _____

5. Clerk ID _____ (TWRA Radio Numbers)

6. Survey Method: Roving or Access Point (Circle)

7. Count of Bank Anglers _____

8. Count of Boat Anglers _____

9. Comments _____

_____

_____

_____

_____

_____

_____

_____

_____

Form No. WR-0795 (Rev. 11-00)
RDA 1455

Tennessee Wildlife Resources Agency
Reservoir Angler Survey

(Questions in bold represent angler contact questions)

1. Calendar Date____/____/_____ 2. Reservoir _____ (Code) 3. Area _____
mm dd yy

4. Angler Type: Bank or Boat (Circle) **5. Hours Fished ____.____**

6. How many more hours do you plan to fish today? ____.___ (indicate completed trip with a zero)

7. Party Size ____ (No. of anglers)

8. Principal Species Fished For: (Circle One)
997=any species, 370=crappie, 360=black bass, 364=LM bass, 362=SM bass, 363=SP bass, 345=sunfish, 238=catfish, 492=walleye, 491=sauger, 493 =saugeye, 282=trout, 287=lake trout, 279=rainbow trout, 284=brown trout, 325=temperate bass, 328=striped bass, 326=white bass, 329=cherokee bass, 268=musky, 16=other

Fish Harvest Information (for party):

Species Code	No. Harvested	Bulk Weight (lbs.)	No. Released
		.	
		.	
		.	
		.	
		.	
		.	

Economic Section

9. State of Residence _____ (Code) **10. County of Residence _____** (Code)

11. Miles from Home to Lake ____ (1 = 0-25 mi., 2 = 26-100 mi., 3 = 101-250 mi., 4 = over 250 mi.)

12. Reason for Trip ____ (1 = Fishing, 2 = Vacation, 3 = Business, 4 = Other)

13. No. of days in Trip _____

Clerk: *"I would now like to ask you some questions about the value of your fishing trip. It is important to the TWRA to estimate the value of reservoir sportfisheries. The next two questions will be used only to calculate this economic estimate."*

14. How much money will you spend on today's fishing trip for things like gas, food, bait, lodging, guides, etc.? $_____

15. How much more than $*value above* **would you be willing to pay to fish here per day, if for example, it just kept getting more and more expensive to make this trip?** $_____

Tournament Section

16. Was the angler(s) fishing in a tournament during the interview? Yes_____ No_____

Form No. WR-0794 (Rev. 12-01)
RDA 1455

Final Report

Enclosure 4

Tennessee Reservoir Creel Survey

2008 Results

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November 2009

Table of Contents

Page

Program Overview 6

Statewide

Statewide Angling Effort for All Anglers, by Lake – 2008 13
Statewide Angling Effort for Intended Species – 2008 14
Statewide Catch Statistics for All Anglers, By Lake – 2008 15
Statewide Fishing Effort and Catch Rates, by Lake, for Intended Species – 2008 16
Statewide Summary of Trip Expenditures and Consumer Surplus, by Lake - 2008 30
Statewide Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 31

TWRA Region I

Kentucky Reservoir

Monthly Angling Effort for All Anglers – 2008 34
Monthly Catch Statistics for All Anglers – 2008 35
Summary of Species Catch Statistics – 2008 36
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 37
Summary of Relative Species Catch Rates Within Target Groups - 2008 38
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 39
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 40
Summary of Sociological Questions - 2008 41

Kentucky 1 - North Reservoir

Monthly Angling Effort for All Anglers – 2008 43
Monthly Catch Statistics for All Anglers – 2008 44
Summary of Species Catch Statistics – 2008 45
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 46
Summary of Relative Species Catch Rates Within Target Groups - 2008 47
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 48
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 49
Summary of Sociological Questions - 2008 50

Kentucky 2 - South Reservoir

Monthly Angling Effort for All Anglers – 2008 52
Monthly Catch Statistics for All Anglers – 2008 53
Summary of Species Catch Statistics – 2008 54
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 55
Summary of Relative Species Catch Rates Within Target Groups - 2008 56
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 57
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 58
Summary of Sociological Questions - 2008 59

Barkley Reservoir

Monthly Angling Effort for All Anglers – 2008 61
Monthly Catch Statistics for All Anglers – 2008 62
Summary of Species Catch Statistics – 2008 63
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 64
Summary of Relative Species Catch Rates Within Target Groups - 2008 65
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 66
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 67
Summary of Sociological Questions - 2008 68

Pickwick Reservoir

Monthly Angling Effort for All Anglers – 2008 ……..……..……..……... 70
Monthly Catch Statistics for All Anglers – 2008 ……..……..…..……..……..... 71
Summary of Species Catch Statistics – 2008 ……..……..…….…… 72
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 …….…….…… 73
Summary of Relative Species Catch Rates Within Target Groups - 2008 ……...…… 74
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 75
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 …… 76
Summary of Sociological Questions - 2008 ……....……..……..…… 77

Reelfoot Lake

Monthly Angling Effort for All Anglers – 2008 ……..……..……..……... 79
Monthly Catch Statistics for All Anglers – 2008 ……..……..…..……..……..... 80
Summary of Species Catch Statistics – 2008 ……..……..…….…… 81
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 …….…….…… 82
Summary of Relative Species Catch Rates Within Target Groups - 2008 ……...…… 83
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 84
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 …… 85
Summary of Sociological Questions - 2008 ……....……..……..…… 86

TWRA Region II

Tims Ford Reservoir

Monthly Angling Effort for All Anglers – 2008 ……..……..……..……... 89
Monthly Catch Statistics for All Anglers – 2008 ……..……..…..……..……..... 90
Summary of Species Catch Statistics – 2008 ……..……..…….…… 91
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 …….…….…… 92
Summary of Relative Species Catch Rates Within Target Groups - 2008 ……...…… 93
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 94
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 …… 95
Summary of Sociological Questions - 2008 ……....……..……..…… 96

Normandy Reservoir

Monthly Angling Effort for All Anglers – 2008 ……..……..……..……... 98
Monthly Catch Statistics for All Anglers – 2008 ……..……..…..……..……..... 99
Summary of Species Catch Statistics – 2008 ……..……..…….…… 100
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 …….…….…… 101
Summary of Relative Species Catch Rates Within Target Groups - 2008 ……...…… 102
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 103
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 …… 104
Summary of Sociological Questions - 2008 ……....……..……..…… 105

Percy Priest Reservoir

Monthly Angling Effort for All Anglers – 2008 ……..……..……..…….. 107
Monthly Catch Statistics for All Anglers – 2008 ……..……..…..……..……..... 108
Summary of Species Catch Statistics – 2008 ……..……..…….…… 109
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 …….…….…… 110
Summary of Relative Species Catch Rates Within Target Groups - 2008 ……...…… 111
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 112
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 …… 113
Summary of Sociological Questions - 2008 ……....……..……..…… 114

Old Hickory Reservoir

Monthly Angling Effort for All Anglers – 2008 ……..……..……..……... 116
Monthly Catch Statistics for All Anglers – 2008 ……..……..…..……..……..... 117
Summary of Species Catch Statistics – 2008 ……..……..…….…… 118
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 …….…….…… 119
Summary of Relative Species Catch Rates Within Target Groups - 2008 ……...…… 120
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 121
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 …… 122
Summary of Sociological Questions - 2008 ……....……..……..…… 123

TWRA Region III

Center Hill Reservoir

Monthly Angling Effort for All Anglers – 2008 ……..……..……..……... 126
Monthly Catch Statistics for All Anglers – 2008 ……..……..…..……..……..... 127
Summary of Species Catch Statistics – 2008 ……..……..…….…… 128
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 …….……..…… 129
Summary of Relative Species Catch Rates Within Target Groups - 2008 ……...…… 130
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 131
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 …… 132
Summary of Sociological Questions - 2008 ……....……..……..…… 133

Chickamauga Reservoir

Monthly Angling Effort for All Anglers – 2008 ……..……..……..……... 135
Monthly Catch Statistics for All Anglers – 2008 ……..……..…..……..……..... 136
Summary of Species Catch Statistics – 2008……..……..…….…… 137
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 …….……..…… 138
Summary of Relative Species Catch Rates Within Target Groups - 2008 ……...…… 139
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 140
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 …… 141
Summary of Sociological Questions - 2008 ……....……..……..…… 142

Watts Bar Reservoir

Monthly Angling Effort for All Anglers – 2008 ……..……..……..……... 144
Monthly Catch Statistics for All Anglers – 2008 ……..……..…..……..……..... 145
Summary of Species Catch Statistics – 2008 ……..……..…….…… 146
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 …….……..…… 147
Summary of Relative Species Catch Rates Within Target Groups - 2008 ……...…… 148
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 149
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 …… 150
Summary of Sociological Questions - 2008 ……....……..……..…… 151

Dale Hollow Reservoir

Monthly Angling Effort for All Anglers – 2008 ……..……..……..……... 153
Monthly Catch Statistics for All Anglers – 2008 ……..……..…..……..……..... 154
Summary of Species Catch Statistics – 2008 ……..……..…….…… 155
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 ……..…….…… 156
Summary of Relative Species Catch Rates Within Target Groups - 2008 ……...…… 157
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 158
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 …… 159
Summary of Sociological Questions - 2008 ……....……..……..…… 160

TWRA Region IV

Norris Reservoir

Monthly Angling Effort for All Anglers – 2008..……..……..……... 163
Monthly Catch Statistics for All Anglers – 2008 ……..……..…..……..……..... 164
Summary of Species Catch Statistics – 2008 …...……..……..…… 165
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 …….……..…… 166
Summary of Relative Species Catch Rates Within Target Groups - 2008 ……...…… 167
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 168
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 …… 169
Summary of Sociological Questions - 2008 ……....……..……..…… 170

Cherokee Reservoir

Monthly Angling Effort for All Anglers – 2008 ……..……..……..……... 172
Monthly Catch Statistics for All Anglers – 2008 ……..……..…..……..……..... 173
Summary of Species Catch Statistics – 2008 ……..……..…….…… 174
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 …….……..…… 175
Summary of Relative Species Catch Rates Within Target Groups - 2008 ……...…… 176
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 177
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 …… 178
Summary of Sociological Questions - 2008 ……....……..……..…… 179

Melton Hill Reservoir

Monthly Angling Effort for All Anglers – 2008 ……..……..……..……... 181
Monthly Catch Statistics for All Anglers – 2008 ……..……..…..……..……..... 182
Summary of Species Catch Statistics – 2008 ……..……..…….…… 183
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 …….…….…… 184
Summary of Relative Species Catch Rates Within Target Groups - 2008 ……...…… 185
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 186
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 …… 187
Summary of Sociological Questions - 2008 ……....…….……..…… 188

Fort Loudon Reservoir

Monthly Angling Effort for All Anglers – 2008 ……..……..……..……... 190
Monthly Catch Statistics for All Anglers – 2008.……..……..…..……..……..... 191
Summary of Species Catch Statistics – 2008 ……..……..…….…… 192
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 …….…….…… 193
Summary of Relative Species Catch Rates Within Target Groups - 2008 ……...…… 194
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 195
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 …… 196
Summary of Sociological Questions - 2008 ……....…….……..…… 197

Boone Reservoir

Monthly Angling Effort for All Anglers – 2008 ……..……..……..……... 199
Monthly Catch Statistics for All Anglers – 2008 ……..……..…..……..……..... 200
Summary of Species Catch Statistics – 2008 ……..……..…….…… 201
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 …….…….…… 202
Summary of Relative Species Catch Rates Within Target Groups - 2008 ……...…… 203
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 204
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 …… 205
Summary of Sociological Questions - 2008 ……....…….……..…… 206

Watauga Reservoir

Monthly Angling Effort for All Anglers – 2008 ……..……..……..……... 208
Monthly Catch Statistics for All Anglers – 2008 ……..……..…..……..……..... 209
Summary of Species Catch Statistics – 2008……..……..…….…… 210
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 …….…….…… 211
Summary of Relative Species Catch Rates Within Target Groups - 2008 ……...…… 212
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 213
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 …… 214
Summary of Sociological Questions - 2008 ……....…….……..…… 215

Appendix I

TWRA Reservoir Angler Count Form ……. 217
TWRA Reservoir Angler Survey Form ……. 218

Program Overview

This document provides a summary of data collected by Tennessee Wildlife Resource Agency (TWRA) personnel for the statewide reservoir angler creel survey for the 2008 calendar year. Creel surveys were used to assess the fisheries of 18 reservoirs throughout Tennessee using two basic sampling methods; roving and access point. This overview contains descriptions of: 1) survey designs, 2) sampling methodologies, and 3) analytical methods. Each description is divided into roving and access point surveys. The roving survey descriptions give a more thorough account of the methodology; access point survey descriptions only list methods that differed from roving surveys. The roving and access point creel survey designs were adopted from methods described by Malvestuto et al. (1978), Malvestuto (1996) and St. John (1992). The intention of this narrative is to provide readers with a brief overview of the statistical sampling framework.

Survey Designs

Creel clerks conducted surveys on 18 reservoirs with active, on-site methods whereby anglers were interviewed either during, or immediately following, fishing trips. Fishery-dependent information collected included: angler effort, trip duration, target preferences, catch, harvest, release, demographic measures, economic values and individual status as a tournament angler. Seventeen of the reservoirs were sampled using roving creel survey designs while one of the reservoirs (Normandy) was sampled with access point creel survey methods.

(Roving Surveys)

The roving survey method used non-uniform probability, stratified random sampling to maximize sampling efficiency and minimize bias. Each reservoir was divided into a number of sections. The area of a section was originally defined by the ability of a creel clerk to complete a circuit in about 1 to 1.5 hours. Each area within a reservoir was assigned a sampling probability based on expected angler use within each of 12 monthly time blocks. The sum of the area probabilities equaled 1.0. The fishing day was defined as the period of time from sunrise to sunset. Fishing days were divided into two sampling periods in which the period from sunrise to sunset was divided into two roughly equal periods. Sampling periods also were assigned probabilities based on expected angler use within each month, and these summed to 1.0. Sampled days were divided into two strata (weekend days and weekday days) to homogenize the distributions of angler occurrence, assuming that anglers would be more abundant during weekend samples when a greater proportion of the angling population would be expected to have more time for recreation.

Random work schedules were created prior to the beginning of the 2008 survey year. Within any given month, a predetermined number of days was allocated to each day-type (weekend and weekday). Calendar days then were randomly chosen each month for each day-type. Within each sample day, secondary sampling units consisted of all the possible combinations of time periods (2) and lake sections. Probabilities for secondary sample units were derived by multiplying the time period probability by the lake section probability. Secondary sampling unit probabilities summed to 1.0 for any given lake. One secondary sampling unit was randomly chosen each day; that is to say, each sample day, creel clerks worked one ½-day period within a single, pre-defined lake section.

(Access Point Surveys)

Although the sampling methodology for the access point creel surveys differed from the roving surveys, the framework used to determine the sampling designs was basically the same. The one exception was the substitution of angler access points (boat ramps) for reservoir areas. The secondary sample units comprised all combinations of access points and time periods, and the secondary sampling unit probabilities summed to 1.0. During each sample day, creel clerks worked one ½-day period at a single access point.

Sample Methodology

(Roving Surveys)

Creel clerks collected data during the scheduled work periods described previously. A roving creel survey sample consisted of two parts: angler counts and angler interviews. Daily counts of anglers were taken within the sample period by making a circuit of the lake concurrently with interviews during a single circuit of the lake section within a ½-day sampling period (count-as-you-go method). The count-as-you-go method required that check stations be established at ¼-way points on the route to enable clerks to stay on schedule and finish the single circuit during the allotted time. Travel direction was randomly determined by coin toss. All anglers fishing from either boats or from the shore were counted.

Creel clerks interviewed as many anglers as possible during a sample period. If there were more anglers than could be interviewed, then angling parties were systematically skipped to ensure that interviews were collected throughout the entire reservoir section in the allotted time.

Upon approaching anglers, creel clerks recorded information, which did not require interrupting fishing, including date, reservoir, sample area, fishing from the bank or a boat, and the number of anglers in the fishing party. When the clerk reached the angler or angling group, he asked if they would mind spending a few moments answering questions related to the fishing trip. If anglers did not wish to be interrupted, then the creel clerk moved on. If anglers did not mind responding to the interview, then the clerk asked how long they had been fishing, how much longer they expected to fish, what their primary target species was, what state and county they were from, the distance they traveled from home, the reason for the trip, the number of days in the trip, dollar amount of trip expenditures, and the additional amount of money they would be willing to spend if daily expenditures were to increase. The anglers were also categorized as a tournament (actively fishing in a tournament at the time of the interview) or a non-tournament angler. The creel clerk counted all fish harvested and recorded the bulk weight of each harvested species. Anglers were also asked how many of each species had been released. Each respondent's answers were recorded on pre-printed survey forms using TWRA survey codes. Since anglers were interviewed before completing their fishing trips with roving surveys, interview data from roving surveys were based on uncompleted fishing trips.

(Access Point Surveys)

Access point surveys differed from roving creel surveys in that anglers were not interviewed until they had finished fishing and were leaving the water at an access site. Thus, interview data from access point surveys were based on competed fishing trips. During any given ½-day sampling period, the creel clerk waited at a boat ramp and interviewed anglers as they left using the same interview format as used for roving surveys. All anglers leaving access sites were counted and as many as possible were interviewed.

Analytical Methods

Creel surveys conducted by TWRA used randomized sampling designs which, taken alone, only provide information about small portions of each reservoir fishery. To provide meaningful estimates about the populations from which the samples were drawn, the sample values must be expanded over space and time. The following narrative describes the calculations for these data expansions for any given reservoir. To assess the efficiency of the sampling effort and the variability of the estimates, relative standard errors (RSE) were calculated where possible. The RSE is the standard error (se) of an estimated value (y), expressed as a percentage of that value, or RSE = (se/y) x 100. Mathematical formulas for the following estimates were given by Malvestuto et al. (1978).

(Roving Surveys)

Fishing Effort

Estimates of fishing effort were calculated using daily angler counts and the number of hours within a sample period. Thus, for any given sampling period, fishing effort measured in angler-hours (e) was calculated as

the product of the total angler count (c) and the number of hours assigned to the sampling period (h), or e = c(h). This value estimates total angler-hours for a single lake section within a single time period, which must be expanded to an estimate of angler-hours for the entire lake for the whole day. This expansion is accomplished by dividing e by the probability for the secondary sampling unit (time period/lake section) worked that day. For example, if the time period probability was 0.5 and the lake section probability was 0.4, then the secondary sampling unit probability is 0.5 x 0.4, or 0.20, so an estimate of e=100 angler-hours for a given secondary unit would be expanded to 100/0.2 or 100 x 5 = 500 angler-hours for the whole lake for that entire day (E).

To derive estimates of total monthly fishing effort, means were taken across the daily values of E within each day-type stratum each month. These two daily mean values of fishing effort (one for weekends and one for weekdays) were weighted by the proportional number of those day types within each month (e.g. weekend weight = no. weekend-days/ total days in month), and then summed to provide a mean daily estimate of fishing effort for the month. This mean daily value then was multiplied by the total number of days in the month to give total monthly effort for the entire lake (T). Intended monthly fishing effort for a given species, or species group, was computed as the proportion of interviewed anglers fishing for that group times total monthly fishing effort. So, for example, if 25% of the anglers interviewed were fishing for black bass, the monthly-intended fishing effort for black bass would be 0.25(T).

Catch Rates (CPE, HPE and RPE)

Catch-per-unit-effort or CPE = the number of fish caught per hour, which includes fish harvested plus fish released back into the water. For roving creel surveys, CPE values are based on the number of fish caught by anglers at the time of interview (uncompleted fishing trips). For the following description, release or harvest values may be substituted for catch values to derive release per angler-hour, RPE, or harvest per angler-hour, HPE.

For each interview on a given sample day, the total number of fish caught by all anglers in the fishing party (n) was divided by the total time all anglers in the party had spent fishing (f) up to the point they were interviewed. These individual party CPE values (n/f) then were averaged to provide a daily CPE. A mean was taken across the daily CPE values within each day-type stratum, and then these weekday and weekend means were weighted and summed (as described for daily fishing effort above) to give a mean daily CPE for the month. This mean daily value is representative of the month as a whole, and becomes the monthly CPE estimate for all species combined.

Catch, Harvest and Release

Total daily catch for an entire reservoir (C) was calculated by multiplying the total daily effort (E) by the daily CPE estimate. The same process was applied to release and harvest data to derive total daily release (R) and total daily harvest (H). The daily total catch values were used to calculate a mean daily catch within each day-type stratum each month. The mean daily catch values for weekdays and weekends were weighted and summed across day types, as done for effort and CPE above, to derive a mean daily catch for the month. This mean daily value then was multiplied by the number of days in the month (as done for fishing effort) to estimate total monthly catch (M).

Estimates of catch for individual species were calculated from the percent composition of individual species recorded during interviews. For example, if a given species accounted for 40% of the total number of fish recorded during any given month, then the total monthly catch for that species would be 0.4(M).

Intended Species Catch Rates

Catch rates (CPE, RPE and HPE) for anglers targeting certain species were calculated based on interviews of anglers who intended to catch those species. For computations, interviews from anglers intending to catch various species were grouped. Catch rates for intended species were calculated for each interview by summing the number of fish caught of that species and dividing by fishing effort for all anglers in the party. A mean CPE then was taken across interviews within intended species categories to provide the intended species catch rates.

Caution should be exercised when interpreting these data since many of the target species groups were general categories (e.g. black bass, crappie) while other valid responses were more specific (e.g. largemouth bass, smallmouth bass). Anglers were asked to be as specific as possible with regard to their target species, but often no

discrimination was made between individual species within general groups. For example, calculations made for black bass only include data taken from anglers who stated black bass to be their target species group. The black bass category does not include values from anglers who specified they were fishing for largemouth bass or smallmouth bass. Calculations for these species are presented within their own categories. To obtain a true estimate of effort for black bass, all categories for black bass species, including the general category, must be summed (i.e. true total black bass effort = black bass effort + largemouth bass effort + smallmouth bass effort). The CPE estimates for intended species, however, are not additive since each estimate is based on a different value of intended fishing effort in the denominator, i.e., the fractions do not have a common denominator as they stand.

Relative Species Catch Rates

Relative catch rates are the proportional catch rates of individual species within the general intended species groups. These rates were computed by multiplying the intended catch rate for a given species group by the proportion of relevant species recorded in the creel. So, for example, if the intended catch rate for crappie is 1.8 fish/h, and black crappie represented 25% of the crappie in the creel and white crappie represented the remaining 75%, then the intended rate of 1.8 was partitioned into 1.8(.25) = 0.45 for black crappie and 1.8(.75) = 1.35 for white crappie. These relations do not hold for black bass, however, because there were usually more than one black bass intended catch rate (e.g., general black bass, largemouth bass, smallmouth bass, etc.), so there was no single rate to partition. The intended rates are not additive, as explained above, so the sum of the intended rates cannot serve as the single rate for black bass to be partitioned. So, the relative CPE values for black bass species were computed by generating a new total black bass catch rate by summing the monthly total catches of all black bass species in the numerator, and dividing by the sum of total monthly-intended fishing effort for all black bass in the denominator. This value then was partitioned by the proportion of each black bass species recorded in the creel. Although the species relative catch rates for black bass sum to this new total rate, the new rate is not a pure intended catch rate and thus is not reported elsewhere in the report. In summary, relative catch rates basically reflect the species composition of the catch within intended species groups, and thus do not represent true catch rates for those individual species, as do the intended rates.

Economic Values

Anglers were asked to give estimates of daily trip expenditures for items, which included fuel, food, bait, lodging and guides fees. They were also asked how much additional money they would be willing to spend if daily trip costs were to increase in the future. This value is anglers' willingness to pay above actual costs, and represents anglers' consumer surplus. Consumer surplus is equivalent to the amount of money that anglers would be willing to spend for the opportunity to fish a given resource, over-and-above what they actually have to spend. This amount of money is the theoretical profit associated with the fishery, as if it were privately owned. This value is necessary to compute so that the profit associated with recreational fisheries in Tennessee can be compared to other more traditional industries. Money spent for trip preparation and travel to the reservoirs (fuel, food, bait, etc.) is funneled into other businesses that provide goods and services enabling anglers to go fishing; this money, in turn, employs people in these business, and is re-cycled in the local economies, generating more goods, services and profits. Both components of economic value, trip expenditures and consumer surplus, sum to provide an estimate of total angler-oriented value.

Total monthly estimates of trip expenditures and consumer surplus were computed by multiplying the median dollar values per trip by the total number of angler-trips estimated for the month. This was first done for each intended species group and then the intended species values were summed to give the total monthly economic estimates. Median trip values for the economic responses were used because frequency distributions of expenditures per trip and consumer surplus per trip were skewed to the left, such that means were generally higher than medians, and thus the more conservative median values were used in the computations.

Tournament Status

Beginning in 2002, all anglers were asked if they were actively fishing in a tournament at the time of the interview. Each interview record was coded as yes (tournament fishing), or no (not tournament fishing). Analyses involving tournament angling were restricted to those individuals targeting black basses. Black bass

Catch rates (CPE) were calculated for tournament anglers as well as non tournament angler. For comparison, percent of black bass effort and catch rates for by angler type were printed in tables at the end of each reservoir section in the report

(Access Point Surveys)

This section only describes estimates, which differ in computation from the roving survey methods. These differences include estimating fishing effort and catch rates. All other estimates were calculated the same way for the two survey techniques.

Fishing Effort

The standard difference between roving and access point surveys with respect to derivation of fishing effort is how angler-hours for the sample period are estimated. For roving surveys as described above, sample period effort is estimated as the angler count times the number of hours in the sample period. For access point surveys, however, angler-hours for the sample period is simply the sum of angler-hours recorded from completed trip interviews at the access point. This assumes that all anglers who exited the site were interviewed. If all anglers could not be interviewed upon exit, then angler-hours for the sample period were estimated as the mean completed trip time computed from interviews, times the total number of anglers who exited the site. Once sample period effort is computed, the computational techniques for access point surveys followed those outlined above for roving surveys.

In 2008, Normandy Reservoir was sampled using the access point survey method. To maximize work time efficiency during the initial year, only the major access sites were sampled. In order to expand the daily ramp effort to lake wide totals, monthly area probabilites were estimated based on boat trailer counts that were measured from all ramps on every scheduled sample day. These probablilties were used to obtain the monthly area probability for the sampled ramp which was used to exand the local effort lake wide during the monthly time blocks. This differed from the roving surveys which had fixed probabilities prior to the sample year and were used to schedule the sampling effort.

Catch Rates

Catch rates from roving surveys should be computed differently than catch rates from access point surveys. This is because catch rate data are based on uncompleted trips from roving surveys. If trip data is not complete, then it is appropriate to compute a catch rate for each interview and then take a mean of these rates within any given day to provide a daily catch rate. This is the method described above for computation of catch rates from roving surveys. This method gives each interview equal weighting regardless of how long the anglers were fishing. Equal weighting is appropriate because the final length of the trip is not known. However, if the completed trip length is known as with access point surveys, then catch rate is computed as the sum of catch across interviews (numerator) divided by the sum of effort across interviews (denominator). This provides a single total ratio estimate of CPE, which is equivalent to weighting each interview catch rate by the time spent fishing. This weighting is appropriate because the total fishing trip is represented in the data.

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Emily Satterfield
Don Seal
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STATEWIDE

STATEWIDE ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
NORRIS	346330	11.9	10.1	66547	1.9	5.1
DALE HOLLOW	335407	7.4	14.6	52750	2.1	5.0
REELFOOT	520475	10.0	49.8	66995	6.5	7.7
CHEROKEE	407675	9.0	13.5	78464	2.5	6.0
TIMS FORD	56407	9.6	5.3	11642	1.0	0.8
BARKLEY	131119	11.7	7.4	21705	1.2	1.9
CENTER HILL	322409	13.0	17.6	58367	3.3	4.8
PERCY PRIEST	783696	5.4	55.2	174502	12.3	11.6
OLD HICKORY	970509	7.0	43.2	208509	9.2	14.4
MELTON HILL	87914	5.0	15.4	22459	4.0	1.3
NORMANDY	35387	11.2	11.6	7260	2.4	0.5
FT. LOUDOUN	197702	6.4	13.6	43406	2.9	2.9
CHICKAMAUGA	493508	8.5	14.1	79161	2.3	7.3
WATTS BAR	514776	13.0	13.4	82544	2.1	7.6
PICKWICK	67540	11.9	11.0	11026	1.8	1.0
KENTUCKY	1484970	6.2	13.7	239983	2.1	22.0
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STATEWIDE	**6755824**	**2.5**	**19.3**	**1225320**	**3.6**	**100.0**

STATEWIDE ANGLING EFFORT FOR INTENDED SPECIES GROUPS - 2008

INTENDED SPECIES	ANGLER HOURS	RELATIVE STANDARD ERROR	ANGLER TRIPS	PERCENT EFFORT
ANY CATFISH	653676	4.5	115855	9.7
MUSKELLUNGE	3062	24.9	634	0.0
RAINBOW TROUT	888	50.5	199	0.0
ANY TROUT	2129	35.7	418	0.0
BROWN TROUT	742	139.6	184	0.0
WHITE BASS	101844	10.4	18961	1.5
STRIPED BASS	199592	6.4	39964	3.0
CHEROKEE BASS	71827	9.9	14564	1.1
ANY SUNFISH	329208	7.3	53468	4.9
ANY BLACK BASS	1380672	4.2	237664	20.4
SMALLMOUTH BASS	188821	8.5	30242	2.8
SPOTTED BASS	15216	24.5	2895	0.2
LARGEMOUTH BASS	900237	4.8	190300	13.3
ANY CRAPPIE	1664642	4.6	282008	24.6
SAUGER	178445	10.9	30595	2.6
WALLEYE	144210	8.2	27537	2.1
SAUGEYE	1882	96.2	353	0.0
ANY SPECIES	916738	3.9	179380	13.6
OTHER	382	103.5	82	0.0

STATEWIDE CATCH STATISTICS FOR ALL ANGLERS, BY LAKE - 2008

LAKE	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
NORRIS	351078	32.6	1.01	54.2	66288	21.0	0.19	60.3
DALE HOLLOW	178938	11.6	0.53	23.0	68451	15.3	0.20	33.2
REELFOOT	1232892	11.2	2.37	10.6	861108	11.3	1.65	10.8
CHEROKEE	347704	9.4	0.85	12.7	81529	12.4	0.20	26.4
TIMS FORD	35786	20.1	0.63	58.3	9454	25.6	0.17	66.0
BARKLEY	304790	17.9	2.32	18.9	144792	22.5	1.10	26.1
CENTER HILL	180621	14.0	0.56	23.9	64656	17.3	0.20	33.8
PERCY PRIEST	1035894	8.8	1.32	22.3	292897	10.4	0.37	27.3
OLD HICKORY	1597814	9.5	1.65	16.0	254805	13.3	0.26	34.8
MELTON HILL	66060	9.7	0.75	30.0	6927	21.4	0.08	79.1
NORMANDY	20319	15.4	0.57	29.6	6963	24.0	0.20	68.3
FT. LOUDOUN	250960	8.8	1.27	20.1	41836	15.8	0.21	46.2
CHICKAMAUGA	1560100	9.9	3.16	13.8	367287	11.7	0.74	20.3
WATTS BAR	1326146	15.2	2.58	20.6	299453	18.8	0.58	34.8
PICKWICK	44602	17.8	0.68	72.4	10207	10.2	0.15	40.3
KENTUCKY	3767458	8.1	2.54	12.6	1786466	9.6	1.20	16.6
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STATEWIDE	**12301162**	**3.9**	**1.82**	**18.3**	**4363119**	**5.0**	**0.64**	**23.0**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2008

INTENDED SPECIES=ANY CATFISH

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
NORRIS	345	141.6	68	0.1	0.00	.	0.00	.	0
DALE HOLLOW	4306	31.3	648	0.7	0.59	54.1	0.59	54.1	101
REELFOOT	6759	26.6	872	1.0	0.55	34.1	0.49	38.1	59
CHEROKEE	39978	16.3	8008	6.1	0.64	22.9	0.41	25.1	253
TIMS FORD	521	73.1	111	0.1	0.29	.	0.00	.	0
BARKLEY	22031	17.6	3565	3.4	0.89	31.5	0.85	30.5	197
CENTER HILL	6342	35.2	1183	1.0	0.22	39.3	0.22	39.3	21
PERCY PRIEST	48914	11.4	10870	7.5	0.33	54.1	0.24	60.7	93
OLD HICKORY	69273	13.3	15380	10.6	0.37	29.9	0.32	33.9	95
MELTON HILL	1703	33.9	466	0.3	0.10	0.0	0.00	.	0
NORMANDY	2332	25.8	463	0.4	0.32	39.1	0.24	55.8	63
FT. LOUDOUN	9449	21.1	2246	1.4	0.43	46.4	0.09	64.7	17
CHICKAMAUGA	100324	10.6	16131	15.3	1.48	15.1	0.63	20.0	1065
WATTS BAR	58667	16.4	9430	9.0	1.32	30.8	0.65	34.5	365
PICKWICK	13582	21.7	2319	2.1	0.76	14.1	0.66	19.0	67
KENTUCKY	269150	8.0	44095	41.2	0.76	22.7	0.60	24.6	1097
STATEWIDE	**653676**		**115855**						**3493**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2008

INTENDED SPECIES=MUSKELLUNGE

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
DALE HOLLOW	887	61.5	134	29.0	0.12	.	0.08	.	1
MELTON HILL	2175	24.4	500	71.0	0.03	120.9	0.00	.	0
STATEWIDE	**3062**		**634**						**1**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2008

INTENDED SPECIES=RAINBOW TROUT

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
DALE HOLLOW	163	148.2	23	18.4	7.00	.	7.00	.	7
MELTON HILL	725	52.1	176	81.6	0.73	6.0	0.41	18.6	8
STATEWIDE	**888**		**199**						**15**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2008

INTENDED SPECIES=ANY TROUT

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
DALE HOLLOW	2129	35.7	418	100.0	0.02	176.1	0.02	176.1	1

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2008

INTENDED SPECIES=BROWN TROUT

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
OLD HICKORY	742	139.6	184	100.0	0.00	.	0.00	.	0

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2008

INTENDED SPECIES=WHITE BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
CHEROKEE	895	73.1	168	0.9	0.47	.	0.47	.	3
TIMS FORD	251	69.7	50	0.2	0.46	0.0	0.00	.	0
BARKLEY	1623	42.0	291	1.6	2.07	26.9	1.18	31.8	47
PERCY PRIEST	13845	17.8	3089	13.6	0.56	110.8	0.20	132.9	31
OLD HICKORY	34966	18.6	7396	34.3	1.21	29.0	0.72	36.2	140
CHICKAMAUGA	2979	38.0	472	2.9	5.28	27.9	3.01	33.9	167
WATTS BAR	18988	24.4	3044	18.6	5.12	31.5	1.90	27.4	346
KENTUCKY	28297	22.6	4451	27.8	2.09	16.5	0.76	26.9	140
STATEWIDE	**101844**		**18961**						**874**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2008

INTENDED SPECIES=STRIPED BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
NORRIS	33232	18.0	6659	16.6	0.26	75.9	0.04	151.9	9
CHEROKEE	23301	15.3	4427	11.7	0.11	41.9	0.05	53.5	26
TIMS FORD	5962	24.2	1280	3.0	0.10	55.5	0.06	92.8	11
PERCY PRIEST	26829	14.0	5957	13.4	0.07	93.0	0.02	82.0	6
OLD HICKORY	54870	13.9	11887	27.5	0.18	47.9	0.09	62.6	38
MELTON HILL	6545	16.3	1688	3.3	0.06	88.5	0.00	.	0
FT. LOUDOUN	1926	61.5	443	1.0	0.86	.	0.00	.	0
CHICKAMAUGA	19536	17.9	3134	9.8	0.58	44.0	0.21	65.9	82
WATTS BAR	20108	21.9	3257	10.1	0.38	46.3	0.11	74.8	22
KENTUCKY	7283	36.7	1232	3.6	0.33	77.9	0.21	114.8	5
STATEWIDE	**199592**		**39964**						**199**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2008

INTENDED SPECIES=CHEROKEE BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
CHEROKEE	44202	14.1	8513	61.5	0.61	15.2	0.21	18.7	187
TIMS FORD	789	44.0	158	1.1	0.36	44.1	0.30	57.9	9
PERCY PRIEST	25669	12.8	5667	35.7	0.52	57.5	0.14	61.7	34
OLD HICKORY	1167	83.8	226	1.6	0.00	.	0.00	.	0
STATEWIDE	**71827**		**14564**						**230**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2008

INTENDED SPECIES=ANY SUNFISH

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
NORRIS	25006	17.5	4997	7.6	2.24	24.1	1.17	27.6	193
DALE HOLLOW	21051	16.4	3354	6.4	2.94	23.4	1.97	25.3	631
REELFOOT	121760	13.5	14779	37.0	2.50	5.9	2.05	5.6	3349
CHEROKEE	4361	38.1	857	1.3	1.86	16.1	0.75	24.0	22
TIMS FORD	1942	38.3	440	0.6	0.49	42.6	0.00	.	0
BARKLEY	9995	43.2	1640	3.0	7.73	9.0	6.29	10.0	493
CENTER HILL	7019	30.4	1348	2.1	1.95	38.6	1.29	43.7	99
PERCY PRIEST	23340	18.2	5275	7.1	2.31	42.7	1.00	52.5	139
OLD HICKORY	40453	17.3	8606	12.3	3.91	51.8	0.50	66.2	97
MELTON HILL	2295	28.7	613	0.7	1.73	15.8	0.64	53.4	37
NORMANDY	217	80.3	42	0.1	1.67	.	0.00	.	0
FT. LOUDOUN	5052	32.0	1125	1.5	1.66	58.5	0.42	103.7	16
CHICKAMAUGA	963	58.1	159	0.3	12.01	.	5.21	.	55
PICKWICK	3941	15.9	682	1.2	3.08	.	0.00	.	0
KENTUCKY	61813	21.8	9551	18.8	7.15	23.1	4.23	14.3	1928
STATEWIDE	**329208**		**53468**						**7059**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2008

INTENDED SPECIES=ANY BLACK BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
NORRIS	124831	18.1	23313	9.0	0.42	23.0	0.01	156.8	11
DALE HOLLOW	69658	9.8	10773	5.0	0.33	22.2	0.10	42.6	109
REELFOOT	42972	14.1	5526	3.1	0.73	13.2	0.02	86.9	13
CHEROKEE	702	89.0	136	0.1	0.63	.	0.42	.	2
TIMS FORD	26982	10.3	5477	2.0	0.38	24.7	0.03	65.5	36
BARKLEY	50129	15.0	8274	3.6	2.01	13.8	0.24	27.0	132
CENTER HILL	160682	14.8	28486	11.6	0.56	18.4	0.19	28.0	253
PERCY PRIEST	1181	73.9	272	0.1	0.00	.	0.00	.	0
MELTON HILL	36214	7.4	9270	2.6	0.88	22.7	0.04	64.2	31
NORMANDY	18176	11.9	3781	1.3	0.52	27.4	0.18	58.7	240
FT. LOUDOUN	94694	8.0	20810	6.9	0.97	15.7	0.04	63.4	53
CHICKAMAUGA	200330	9.2	32077	14.5	1.18	21.5	0.06	43.0	207
WATTS BAR	245760	14.5	39275	17.8	0.92	11.9	0.06	46.5	126
PICKWICK	32931	19.5	5360	2.4	0.78	25.9	0.09	77.5	32
KENTUCKY	275430	8.0	44834	19.9	2.11	14.6	0.20	39.9	359
STATEWIDE	**1380672**		**237664**						**1604**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2008

INTENDED SPECIES=SMALLMOUTH BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
NORRIS	32140	27.0	6052	17.0	0.72	42.2	0.02	188.0	5
DALE HOLLOW	144566	9.1	21843	76.6	0.33	17.6	0.02	62.6	53
CHEROKEE	610	57.6	118	0.3	0.29	.	0.00	.	0
TIMS FORD	214	76.4	41	0.1	0.47	.	0.00	.	0
CENTER HILL	5124	44.8	938	2.7	0.10	58.5	0.00	.	0
PERCY PRIEST	2570	45.6	587	1.4	0.35	75.8	0.00	.	0
OLD HICKORY	2371	79.6	443	1.3	0.00	.	0.00	.	0
FT. LOUDOUN	536	80.7	119	0.3	0.25	.	0.00	.	0
WATTS BAR	361	103.3	51	0.2	0.00	.	0.00	.	0
KENTUCKY	329	143.5	50	0.2	0.00	.	0.00	.	0
STATEWIDE	**188821**		**30242**						**58**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2008

INTENDED SPECIES=SPOTTED BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
NORRIS	2687	89.2	456	17.7	0.38	.	0.28	.	12
CENTER HILL	11907	23.8	2299	78.3	0.87	41.7	0.51	46.4	45
PERCY PRIEST	622	63.1	140	4.1	1.51	7.8	0.00	.	0
STATEWIDE	**15216**		**2895**						**57**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2008

INTENDED SPECIES=LARGEMOUTH BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
NORRIS	2244	60.0	438	0.2	0.10	172.8	0.00	.	0
DALE HOLLOW	2736	37.5	396	0.3	0.35	60.5	0.06	94.4	3
CHEROKEE	188140	9.4	36086	20.9	0.62	7.4	0.01	107.6	35
TIMS FORD	97	113.8	20	0.0	0.00	.	0.00	.	0
PERCY PRIEST	266450	6.4	59068	29.6	0.63	18.8	0.04	30.7	156
OLD HICKORY	431904	8.1	92943	48.0	1.16	14.1	0.06	32.0	165
NORMANDY	177	64.0	35	0.0	0.28	20.9	0.00	.	0
WATTS BAR	251	158.5	38	0.0	1.75	.	0.00	.	0
PICKWICK	333	142.6	53	0.0	1.00	.	0.00	.	0
KENTUCKY	7905	41.0	1223	0.9	1.72	9.0	0.23	75.0	7
STATEWIDE	**900237**		**190300**						**366**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2008

INTENDED SPECIES=ANY CRAPPIE

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
NORRIS	23948	34.2	4293	1.4	0.92	45.1	0.36	39.9	85
DALE HOLLOW	32267	12.3	4970	1.9	0.89	36.9	0.33	42.6	145
REELFOOT	339830	12.6	44615	20.4	1.91	7.8	1.36	7.9	4509
CHEROKEE	83486	11.8	15851	5.0	1.17	13.6	0.52	16.6	599
TIMS FORD	7867	14.6	1614	0.5	0.94	59.9	0.49	58.3	162
BARKLEY	37208	15.0	6285	2.2	3.74	18.0	2.41	17.5	1027
CENTER HILL	40187	21.0	7105	2.4	0.96	30.8	0.40	40.5	85
PERCY PRIEST	174730	6.4	39100	10.5	1.28	20.2	0.52	24.6	1053
OLD HICKORY	105202	17.4	21781	6.3	1.30	22.2	0.61	43.7	308
MELTON HILL	14091	12.2	3489	0.8	0.73	27.7	0.28	43.2	101
NORMANDY	11329	17.4	2293	0.7	0.67	46.6	0.29	46.9	243
FT. LOUDOUN	53849	9.2	11608	3.2	1.42	18.9	0.61	26.2	422
CHICKAMAUGA	40793	11.9	6521	2.5	2.09	21.7	0.84	22.5	705
WATTS BAR	44716	19.7	7064	2.7	2.44	19.8	1.05	24.3	520
PICKWICK	996	68.5	170	0.1	1.78	.	1.53	.	35
KENTUCKY	654143	8.6	105249	39.3	2.59	11.4	1.67	12.7	10553
STATEWIDE	**1664642**		**282008**						**20552**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2008

INTENDED SPECIES=SAUGER

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
OLD HICKORY	32664	19.9	6925	18.3	0.80	27.9	0.13	42.5	54
FT. LOUDOUN	963	56.9	218	0.5	0.00	.	0.00	.	0
CHICKAMAUGA	8829	23.5	1428	4.9	2.73	19.9	0.22	33.4	33
WATTS BAR	9236	30.6	1539	5.2	1.95	26.0	0.24	50.9	29
KENTUCKY	126753	14.2	20485	71.0	0.48	25.4	0.21	29.5	382
STATEWIDE	**178445**		**30595**						**498**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2008

INTENDED SPECIES=WALLEYE

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
NORRIS	40665	15.5	8049	28.2	0.08	59.8	0.07	70.7	27
DALE HOLLOW	34411	13.0	6209	23.9	0.32	28.3	0.23	30.6	162
CHEROKEE	3390	38.4	686	2.4	0.27	58.7	0.07	109.6	3
TIMS FORD	2787	28.5	606	1.9	0.01	86.2	0.01	86.2	4
CENTER HILL	56375	15.2	10545	39.1	0.21	38.8	0.06	52.4	38
OLD HICKORY	6304	39.3	1371	4.4	0.42	31.3	0.10	0.0	2
MELTON HILL	161	103.8	46	0.1	0.00	.	0.00	.	0
NORMANDY	117	82.3	25	0.1	0.13	127.1	0.00	.	0
STATEWIDE	**144210**		**27537**						**236**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2008

INTENDED SPECIES=SAUGEYE

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
OLD HICKORY	1882	96.2	353	100.0	0.00	.	0.00	.	0

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2008

INTENDED SPECIES=ANY SPECIES

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
NORRIS	61229	12.7	12221	6.7	0.62	53.2	0.09	85.6	29
DALE HOLLOW	23231	13.3	3978	2.5	0.10	85.7	0.05	167.3	17
REELFOOT	9154	23.8	1203	1.0	0.62	120.3	0.54	136.5	51
CHEROKEE	18608	17.6	3611	2.0	0.55	36.0	0.25	35.9	36
TIMS FORD	8995	19.0	1846	1.0	0.78	40.6	0.23	68.5	37
BARKLEY	10131	35.0	1647	1.1	1.37	30.5	0.64	42.1	74
CENTER HILL	34780	19.4	6465	3.8	0.15	142.4	0.10	131.8	15
PERCY PRIEST	199542	7.0	44475	21.8	1.06	24.8	0.39	33.1	681
OLD HICKORY	188461	9.1	40954	20.6	1.18	29.2	0.39	62.4	253
MELTON HILL	24005	8.6	6210	2.6	0.72	49.4	0.01	168.0	5
NORMANDY	3036	23.9	620	0.3	0.31	71.4	0.01	244.4	4
FT. LOUDOUN	31102	11.7	6812	3.4	0.74	34.6	0.07	111.5	20
CHICKAMAUGA	119750	10.9	19236	13.1	4.78	17.9	1.64	28.7	2065
WATTS BAR	116692	16.4	18846	12.7	3.26	22.6	1.01	39.5	712
PICKWICK	14156	27.6	2442	1.5	2.25	44.1	0.61	56.7	34
KENTUCKY	53866	14.2	8814	5.9	2.14	39.5	0.95	53.6	299
STATEWIDE	**916738**		**179380**						**4332**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2008

INTENDED SPECIES=OTHER

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
OLD HICKORY	251	140.3	57	65.7	0.00	.	0.00	.	0
FT. LOUDOUN	131	137.3	25	34.3	0.00	.	0.00	.	0
STATEWIDE	**382**		**82**						**0**

STATEWIDE SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS, BY LAKE - 2008

LAKE	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
NORRIS	2019560	1445110	3446080	255
DALE HOLLOW	1881360	1072780	2954030	1137
REELFOOT	2636480	661660	3298140	978
CHEROKEE	972470	1243900	2215960	1251
TIMS FORD	142110	146930	289030	34
BARKLEY	674750	434410	1108780	280
CENTER HILL	1446270	865050	2298190	562
PERCY PRIEST	2644300	824920	3469230	438
OLD HICKORY	3422680	1358790	4778820	328
MELTON HILL	382190	239860	622040	528
NORMANDY	44330	40800	85120	19
FT. LOUDOUN	806600	434000	1240590	632
CHICKAMAUGA	1799390	1852130	3651530	1284
WATTS BAR	2029290	1968850	3998130	779
PICKWICK	319760	78340	322680	81
KENTUCKY	5428740	2389990	7816210	2009
TOTAL	**26650280**	**15057520**	**41594560**	**10595**

STATEWIDE SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS, BY INTENDED SPECIES - 2008

TARGET	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBR OF INTERVIEWS
ANY CATFISH	1703200	1012380	2711770	958
MUSKELLUNGE	25160	26660	51820	20
RAINBOW TROUT	3410	1030	4320	4
ANY TROUT	19090	6150	25240	7
BROWN TROUT	9190	0	9190	1
WHITE BASS	317100	180050	496750	113
STRIPED BASS	1137100	733390	1860350	288
CHEROKEE BASS	239010	196060	435060	132
ANY SUNFISH	1288840	458760	1738960	483
ANY BLACK BASS	7977650	5207190	13126190	2961
SMALLMOUTH BASS	1195550	710750	1899810	508
SPOTTED BASS	56280	40850	95080	27
LARGEMOUTH BASS	4102260	1741820	5838800	948
ANY CRAPPIE	5431460	2600610	8026880	2633
SAUGER	553190	126890	677430	216
WALLEYE	517020	380440	894130	306
ANY SPECIES	2074470	1634410	3702400	989
OTHER	300	80	380	1
TOTAL	**26650280**	**15057520**	**41594560**	**10595**

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MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=KENTUCKY

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	59222	25.8	0.5	9726	0.1	4.0
02 FEBRUARY	160614	20.8	1.5	26718	0.2	10.8
03 MARCH	186521	23.4	1.7	30578	0.3	12.6
04 APRIL	281435	12.0	2.6	41201	0.4	19.0
05 MAY	234719	20.5	2.2	35583	0.3	15.8
06 JUNE	141932	13.2	1.3	23473	0.2	9.6
07 JULY	104411	18.8	1.0	18045	0.2	7.0
08 AUGUST	81375	20.7	0.8	13561	0.1	5.5
09 SEPTEMBER	83222	22.9	0.8	13541	0.1	5.6
10 OCTOBER	91909	12.8	0.8	15921	0.1	6.2
11 NOVEMBER	48548	22.2	0.4	9201	0.1	3.3
12 DECEMBER	11062	22.0	0.1	2435	0.0	0.7
TOTAL	**1484970**			**239983**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=KENTUCKY

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	101862	43.1	1.72	33.4	53892	43.6	0.91	34.2
02 FEBRUARY	396717	24.7	2.47	13.1	265013	25.5	1.65	14.4
03 MARCH	481224	29.2	2.58	17.1	238747	32.0	1.28	21.3
04 APRIL	875263	14.9	3.11	8.8	461553	16.8	1.64	11.6
05 MAY	877849	21.5	3.74	6.3	448313	23.0	1.91	10.3
06 JUNE	292380	19.4	2.06	14.0	102191	25.7	0.72	21.7
07 JULY	234925	21.7	2.25	10.8	52206	34.3	0.50	28.4
08 AUGUST	116366	26.0	1.43	15.4	30109	31.7	0.37	23.6
09 SEPTEMBER	120672	27.5	1.45	14.9	35785	30.4	0.43	19.6
10 OCTOBER	184737	23.2	2.01	19.2	60660	27.4	0.66	24.3
11 NOVEMBER	69424	27.8	1.43	16.4	30585	30.9	0.63	20.8
12 DECEMBER	16040	47.0	1.45	40.6	7412	57.8	0.67	52.3
TOTAL	**3767459**				**1786466**			

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=KENTUCKY

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
SKIPJACK HERRING	202	911.8	0.0	0	0	.	0.0	0	100.0	.	0
ALEWIFE	3420	352.7	0.1	0	1533	540.7	0.1	0	55.2	0.77	33
GIZZARD SHAD	1727	302.6	0.0	0	333	594.1	0.0	0	80.7	1.22	6
SHORTHEAD REDHORSE	2872	699.3	0.1	2872	0	.	0.0	0	100.0	.	0
BLUE CATFISH	140784	30.0	3.7	138730	101541	39.0	5.7	100554	27.9	2.24	822
CHANNEL CATFISH	64061	47.9	1.7	63724	46733	61.2	2.6	46733	27.0	2.96	291
FLATHEAD CATFISH	341	1183.8	0.0	341	341	1183.8	0.0	341	0.0	7.90	2
CHAIN PICKERAL	328	1477.0	0.0	0	0	.	0.0	0	100.0	.	0
TIGER MUSKIE	117	984.5	0.0	117	117	984.5	0.0	117	0.0	1.70	3
WHITE BASS	106081	39.7	2.8	62218	29848	48.3	1.7	22279	71.9	0.85	196
YELLOW BASS	195848	20.7	5.2	8197	1502	403.6	0.1	1502	99.2	0.31	8
STRIPED BASS	1665	315.2	0.0	1469	968	404.8	0.1	691	41.9	6.56	7
CHEROKEE BASS	1905	1505.7	0.1	0	1724	1591.5	0.1	0	9.5	1.48	11
WARMOUTH	367	1163.3	0.0	367	0	.	0.0	0	100.0	.	0
BLUEGILL	475123	19.3	12.6	425399	279020	27.2	15.6	273529	41.3	0.28	1931
REDEAR SUNFISH	57453	75.9	1.5	57453	38848	94.3	2.2	38848	32.4	0.51	248
SMALLMOUTH BASS	7619	273.9	0.2	7306	105	1293.2	0.0	105	98.6	3.70	1
SPOTTED BASS	57757	57.1	1.5	47677	7612	104.7	0.4	4758	86.8	1.21	62
LARGEMOUTH BASS	570616	10.8	15.2	530765	16872	38.9	0.9	16358	97.0	2.65	95
WHITE CRAPPIE	1128103	8.3	30.0	1120073	665320	11.4	37.2	660667	41.0	0.75	5997
BLACK CRAPPIE	839365	11.4	22.3	836877	552952	15.3	30.9	551045	34.1	0.94	4635
BLACKNOSE CRAPPIE	39	3339.9	0.0	39	0	.	0.0	0	100.0	.	0
YELLOW PERCH	107	904.7	0.0	0	107	904.7	0.0	0	0.0	0.50	1
SAUGER	100786	20.9	2.7	97900	40497	28.3	2.3	38881	59.8	1.29	401
FRESHWATER DRUM	6392	301.1	0.2	107	169	1287.3	0.0	169	97.4	2.20	1

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=KENTUCKY

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	269150	8.0	44095	18.1	0.76	22.7	0.60	24.6	315
WHITE BASS	28297	22.6	4451	1.9	2.09	16.5	0.76	26.9	32
STRIPED BASS	7283	36.7	1232	0.5	0.33	77.9	0.21	114.8	13
ANY SUNFISH	61813	21.8	9551	4.2	7.15	23.1	4.23	14.3	50
ANY BLACK BASS	275430	8.0	44834	18.5	2.11	14.6	0.20	39.9	513
SMALLMOUTH BASS	329	143.5	50	0.0	0.00		0.00		1
LARGEMOUTH BASS	7905	41.0	1223	0.5	1.72	9.0	0.23	75.0	9
ANY CRAPPIE	654143	8.6	105249	44.1	2.59	11.4	1.67	12.7	899
SAUGER	126753	14.2	20485	8.5	0.48	25.4	0.21	29.5	165
ANY SPECIES	53866	14.2	8814	3.6	2.14	39.5	0.95	53.6	51
TOTAL	**1484969**		**239984**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=KENTUCKY

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.52	0.41
	CHANNEL CATFISH	0.24	0.19
	FLATHEAD CATFISH	0.00	0.00
ANY SUNFISH			
	ANY SUNFISH	0.00	0.00
	WARMOUTH	0.01	0.00
	BLUEGILL	6.29	3.70
	REDEAR SUNFISH	0.85	0.53
ANY BLACK BASS			
ANY BLACK BASS			
ANY BLACK BASS			
	SMALLMOUTH BASS	0.03	0.00
	SPOTTED BASS	0.17	0.02
	LARGEMOUTH BASS	1.87	0.06
ANY CRAPPIE			
	WHITE CRAPPIE	1.48	0.91
	BLACK CRAPPIE	1.11	0.76
	BLACKNOSE CRAPPIE	0.00	0.00

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=KENTUCKY

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.98	5
02 FEBRUARY	0		0	1.46	4
03 MARCH	0		0	2.57	31
04 APRIL	35	2.18	9	2.41	42
05 MAY	45	2.31	11	2.37	34
06 JUNE	28	2.00	14	1.95	58
07 JULY	38	2.63	35	2.03	76
08 AUGUST	51	1.78	12	1.73	57
09 SEPTEMBER	23	2.66	10	1.90	41
10 OCTOBER	13	2.38	2	1.73	59
11 NOVEMBER	32	2.27	2	1.53	18

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2008

LAKE=KENTUCKY

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	596310	179590	775900	313
WHITE BASS	57730	27960	85690	31
STRIPED BASS	13550	4060	17610	13
ANY SUNFISH	168590	74370	242960	50
ANY BLACK BASS	2047980	942380	2990350	503
SMALLMOUTH BASS	2500			1
LARGEMOUTH BASS	52770	6730	59490	9
ANY CRAPPIE	2000900	1075150	3076050	892
SAUGER	364320	44130	408450	146
ANY SPECIES	124090	35620	159710	51
TOTAL	**5428740**	**2389990**	**7816210**	**2009**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=KENTUCKY

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	3461	89.4
OTHERS	412	10.6

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BENTON	729	21.4
CARROLL	245	7.2
HENRY	673	19.7
HOUSTON	231	6.8
HUMPHREYS	287	8.4
OTHERS IN TN	1243	36.5
OUT-OF-STATE	2	0.1

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	2395	62.4
B) 26-100	1186	30.9
C) 101-250	77	2.0
D) > 250	181	4.7

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	1997	97.4
B) VACATION	34	1.7
C) BUSINESS	20	1.0

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	1839	90.2
B) 2-5	116	5.7
C) 6-10	65	3.2
D) 11-15	17	0.8
F) >20	2	0.1

KENTUCKY #1

NORTH

RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=KENTUCKY #1 NORTH

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	33314	39.3	0.3	5482	0.1	3.3
02 FEBRUARY	108761	27.3	1.0	19459	0.2	10.8
03 MARCH	139545	29.8	1.3	23199	0.2	13.9
04 APRIL	235861	14.0	2.2	34180	0.3	23.4
05 MAY	168796	27.1	1.6	25721	0.2	16.8
06 JUNE	92320	19.0	0.9	14045	0.1	9.2
07 JULY	60781	22.7	0.6	9971	0.1	6.0
08 AUGUST	47986	27.7	0.4	8058	0.1	4.8
09 SEPTEMBER	33608	34.4	0.3	5698	0.1	3.3
10 OCTOBER	53432	18.5	0.5	9204	0.1	5.3
11 NOVEMBER	26897	32.8	0.2	5072	0.0	2.7
12 DECEMBER	5642	22.7	0.1	1293	0.0	0.6
TOTAL	**1006943**			**161382**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=KENTUCKY #1 NORTH

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	79287	50.0	2.38	28.8	44308	50.3	1.33	29.2
02 FEBRUARY	330633	30.2	3.04	12.5	237099	30.4	2.18	12.8
03 MARCH	397703	34.9	2.85	17.5	207922	36.9	1.49	20.9
04 APRIL	806645	16.3	3.42	8.2	422191	18.2	1.79	11.4
05 MAY	762958	27.6	4.52	5.2	405110	28.7	2.40	9.1
06 JUNE	214182	22.7	2.32	12.2	77549	26.9	0.84	18.7
07 JULY	108190	27.0	1.78	14.4	24920	44.1	0.41	36.9
08 AUGUST	65261	29.7	1.36	10.5	14396	38.1	0.30	25.3
09 SEPTEMBER	45035	38.8	1.34	17.0	9746	42.0	0.29	22.7
10 OCTOBER	123428	25.6	2.31	17.3	43280	31.4	0.81	24.9
11 NOVEMBER	47877	36.2	1.78	14.5	23400	37.1	0.87	16.5
12 DECEMBER	11566	37.1	2.05	28.6	5924	41.0	1.05	33.3
TOTAL	**2992765**				**1515845**			

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=KENTUCKY #1 NORTH

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
ALEWIFE	1486	580.0	0.0	0	900	779.0	0.1	0	39.4	0.83	28
SHORTHEAD REDHORSE	2872	699.3	0.1	2872	0		0.0	0	100.0		0
BLUE CATFISH	39138	96.9	1.3	38450	37212	100.5	2.5	37125	4.9	1.90	429
CHANNEL CATFISH	12892	209.4	0.4	12769	12532	212.1	0.8	12532	2.8	2.56	100
CHAIN PICKERAL	328	1477.0	0.0	0	0		0.0	0	100.0		0
TIGER MUSKIE	117	984.5	0.0	117	117	984.5	0.0	117	0.0	1.70	3
WHITE BASS	26933	118.1	0.9	14531	3127	274.1	0.2	3127	88.4	0.59	25
YELLOW BASS	188699	20.0	6.3	6378	300	315.3	0.0	300	99.8	0.33	4
CHEROKEE BASS	1905	1505.7	0.1	0	1724	1591.5	0.1	0	9.5	1.48	11
BLUEGILL	388351	22.5	13.0	358388	260054	28.9	17.2	259202	33.0	0.28	1832
REDEAR SUNFISH	47596	83.3	1.6	47596	33669	103.6	2.2	33669	29.3	0.51	217
SMALLMOUTH BASS	6493	309.1	0.2	6385	0		0.0	0	100.0		0
SPOTTED BASS	20964	124.5	0.7	20964	272	895.2	0.0	272	98.7	1.43	3
LARGEMOUTH BASS	372017	13.5	12.4	343997	1518	162.8	0.1	1485	99.6	2.21	16
WHITE CRAPPIE	1050434	8.7	35.1	1042911	616642	12.1	40.7	612094	41.3	0.75	5686
BLACK CRAPPIE	825095	11.4	27.6	822735	546511	15.3	36.1	544727	33.8	0.94	4591
BLACKNOSE CRAPPIE	39	3339.9	0.0	39	0		0.0	0	100.0		0
SAUGER	1421	632.6	0.0	1346	739	354.5	0.0	707	48.0	1.44	23
FRESHWATER DRUM	4193	360.3	0.1	0	0		0.0	0	100.0		0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=KENTUCKY #1 NORTH

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	119238	11.7	19095	11.8	0.58	23.7	0.57	24.1	165
WHITE BASS	8059	29.4	1308	0.8	1.82	24.1	0.36	75.0	16
ANY SUNFISH	51085	25.5	7754	5.1	8.32	9.2	6.26	10.6	41
ANY BLACK BASS	187208	10.0	29845	18.6	2.23	10.0	0.14	30.6	375
SMALLMOUTH BASS	329	143.5	50	0.0	0.00		0.00		1
LARGEMOUTH BASS	1002	105.7	179	0.1	0.75		0.00		1
ANY CRAPPIE	589297	9.4	94688	58.5	3.91	7.5	2.50	7.9	801
SAUGER	25267	26.6	4503	2.5	0.09	58.3	0.06	59.2	31
ANY SPECIES	25458	19.4	3959	2.5	2.72	41.2	1.40	48.4	26
TOTAL	**1006943**		**161381**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=KENTUCKY #1 NORTH

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.44	0.43
	CHANNEL CATFISH	0.14	0.14
ANY SUNFISH			
	ANY SUNFISH	0.00	0.00
	BLUEGILL	7.34	5.54
	REDEAR SUNFISH	0.98	0.72
ANY BLACK BASS			
ANY BLACK BASS			
ANY BLACK BASS			
	SMALLMOUTH BASS	0.03	0.00
	SPOTTED BASS	0.11	0.00
	LARGEMOUTH BASS	1.82	0.01
ANY CRAPPIE			
	WHITE CRAPPIE	2.19	1.32
	BLACK CRAPPIE	1.72	1.18
	BLACKNOSE CRAPPIE	0.00	0.00

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=KENTUCKY #1 NORTH

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.97	3
02 FEBRUARY	0		0	0.92	2
03 MARCH	0		0	2.59	25
04 APRIL	35	2.18	9	2.78	26
05 MAY	49	2.43	9	2.71	21
06 JUNE	28	2.00	14	2.04	43
07 JULY	41	2.46	30	1.42	54
08 AUGUST	21	2.48	3	1.67	47
09 SEPTEMBER	26	2.86	8	2.07	30
10 OCTOBER	13	2.38	2	2.14	33
11 NOVEMBER	32	2.27	2	1.70	13

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2008

LAKE=KENTUCKY #1 NORTH

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	317640	179590	497230	164
WHITE BASS	28080	15150	43230	15
ANY SUNFISH	151980	74370	226350	41
ANY BLACK BASS	1587780	940650	2528440	367
SMALLMOUTH BASS	2500			1
LARGEMOUTH BASS	6730	6730	13450	1
ANY CRAPPIE	1890830	1043130	2933960	794
SAUGER	60540	44130	104670	29
ANY SPECIES	61060	29830	90890	26
TOTAL	**4107140**	**2333580**	**6438220**	**1438**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=KENTUCKY #1 NORTH

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	2477	89
OTHERS	305	11

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BENTON	623	25.3
CARROLL	217	8.8
HENRY	671	27.3
HOUSTON	231	9.4
HUMPHREYS	164	6.7
OTHERS IN TN	552	22.4
OUT-OF-STATE	2	0.1

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	1676	60.3
B) 26-100	867	31.2
C) 101-250	62	2.2
D) > 250	176	6.3

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	1440	99
B) VACATION	15	1

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	1291	88.7
B) 2-5	82	5.6
C) 6-10	64	4.4
D) 11-15	16	1.1
F) >20	2	0.1

KENTUCKY #2

SOUTH

RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=KENTUCKY #2 SOUTH

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	25908	30.2	0.2	4244	0.0	5.4
02 FEBRUARY	51852	29.6	0.5	7259	0.1	10.8
03 MARCH	46976	28.2	0.4	7379	0.1	9.8
04 APRIL	45574	16.7	0.4	7020	0.1	9.5
05 MAY	65923	22.7	0.6	9862	0.1	13.8
06 JUNE	49612	13.2	0.5	9428	0.1	10.4
07 JULY	43630	31.9	0.4	8074	0.1	9.1
08 AUGUST	33388	31.1	0.3	5504	0.1	7.0
09 SEPTEMBER	49615	30.5	0.5	7843	0.1	10.4
10 OCTOBER	38477	16.7	0.4	6717	0.1	8.0
11 NOVEMBER	21651	28.6	0.2	4129	0.0	4.5
12 DECEMBER	5421	38.3	0.1	1141	0.0	1.1
TOTAL	**478027**			**78600**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=KENTUCKY #2 SOUTH

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	22799	55.6	0.88	44.7	9327	54.4	0.36	43.3
02 FEBRUARY	65334	31.6	1.26	10.5	28000	35.3	0.54	18.4
03 MARCH	83148	29.9	1.77	9.7	30534	31.5	0.65	13.5
04 APRIL	67450	23.1	1.48	15.7	39194	19.2	0.86	9.3
05 MAY	114047	26.8	1.73	13.9	44168	29.9	0.67	19.0
06 JUNE	78883	23.2	1.59	18.9	25302	34.0	0.51	31.1
07 JULY	126963	32.9	2.91	7.7	27051	38.3	0.62	20.3
08 AUGUST	50750	37.2	1.52	19.6	15692	38.4	0.47	21.6
09 SEPTEMBER	75415	33.7	1.52	13.7	25800	35.9	0.52	18.1
10 OCTOBER	61563	28.5	1.60	22.8	16930	22.0	0.44	14.1
11 NOVEMBER	21651	35.5	1.00	20.1	7361	45.6	0.34	34.1
12 DECEMBER	4445	.	0.82	.	1464	.	0.27	.
TOTAL	**772448**				**270823**			

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=KENTUCKY #2 SOUTH

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
SKIPJACK HERRING	202	911.8	0.0	0	0	.	0.0	0	100.0	.	0
ALEWIFE	1934	436.2	0.3	0	633	698.4	0.2	0	67.3	0.43	5
GIZZARD SHAD	1727	302.6	0.2	0	333	594.1	0.1	0	80.7	1.22	6
BLUE CATFISH	101645	18.2	13.2	100403	64331	20.2	23.8	63185	36.7	2.61	393
CHANNEL CATFISH	51170	28.5	6.6	50984	34203	30.9	12.6	34203	33.2	3.18	191
FLATHEAD CATFISH	341	1183.8	0.0	341	341	1183.8	0.1	341	0.0	7.90	2
WHITE BASS	79146	34.9	10.2	48132	26721	43.4	9.9	18897	66.2	0.89	171
YELLOW BASS	7148	207.6	0.9	2274	1202	498.1	0.4	1202	83.2	0.30	4
STRIPED BASS	1665	315.2	0.2	1469	968	404.8	0.4	691	41.9	6.56	7
WARMOUTH	367	1163.3	0.0	367	0	.	0.0	0	100.0	.	0
BLUEGILL	86772	32.9	11.2	63848	18965	53.8	7.0	12835	78.1	0.34	99
REDEAR SUNFISH	9859	184.2	1.3	9859	5179	215.3	1.9	5179	47.5	0.53	31
SMALLMOUTH BASS	1125	507.4	0.1	952	105	1293.2	0.0	105	90.7	3.70	1
SPOTTED BASS	36794	54.7	4.8	25771	7340	103.4	2.7	4243	80.1	1.20	59
LARGEMOUTH BASS	198598	17.7	25.7	188834	15356	39.6	5.7	14596	92.3	2.74	79
WHITE CRAPPIE	77667	26.8	10.1	77184	48678	28.2	18.0	48678	37.3	0.74	311
BLACK CRAPPIE	14271	125.5	1.8	14118	6440	145.6	2.4	6294	54.9	0.80	44
YELLOW PERCH	107	904.7	0.0	0	107	904.7	0.0	0	0.0	0.50	1
SAUGER	99365	19.2	12.9	96620	39758	28.0	14.7	38180	60.0	1.28	378
FRESHWATER DRUM	2200	542.1	0.3	220	169	1287.3	0.1	169	92.3	2.20	1

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=KENTUCKY #2 SOUTH

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	149912	10.9	24999	31.4	0.95	21.3	0.65	24.3	150
WHITE BASS	20238	29.4	3143	4.2	2.19	15.2	0.92	21.5	16
STRIPED BASS	7283	36.7	1232	1.5	0.33	77.9	0.21	114.8	13
ANY SUNFISH	10728	32.1	1799	2.2	5.22	36.1	1.79	33.4	9
ANY BLACK BASS	88222	13.1	14987	18.5	2.03	17.6	0.23	38.4	138
LARGEMOUTH BASS	6903	44.4	1044	1.4	1.87	8.4	0.26	65.5	8
ANY CRAPPIE	64846	12.9	10560	13.6	1.33	22.9	0.80	25.4	98
SAUGER	101486	16.4	15983	21.2	0.81	17.7	0.33	17.7	134
ANY SPECIES	28408	20.6	4855	5.9	1.81	29.3	0.52	53.0	25
TOTAL	**478026**		**78602**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=KENTUCKY #2 SOUTH

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.63	0.42
	CHANNEL CATFISH	0.32	0.23
	FLATHEAD CATFISH	0.00	0.00
ANY SUNFISH			
	WARMOUTH	0.03	0.00
	BLUEGILL	4.50	1.28
	REDEAR SUNFISH	0.69	0.51
ANY BLACK BASS			
ANY BLACK BASS			
	SMALLMOUTH BASS	0.01	0.00
	SPOTTED BASS	0.27	0.04
	LARGEMOUTH BASS	1.99	0.15
ANY CRAPPIE			
	WHITE CRAPPIE	1.12	0.71
	BLACK CRAPPIE	0.21	0.09

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=KENTUCKY #2 SOUTH

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	1.00	2
02 FEBRUARY	0		0	2.00	2
03 MARCH	0		0	2.49	6
04 APRIL	0		0	1.81	16
05 MAY	25	1.75	2	1.83	13
06 JUNE	0		0	1.68	15
07 JULY	20	3.67	5	3.51	22
08 AUGUST	61	1.54	9	2.03	10
09 SEPTEMBER	12	1.88	2	1.44	11
10 OCTOBER	0		0	1.21	26
11 NOVEMBER	0		0	1.09	5

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS
FOR INTENDED SPECIES - 2008

LAKE=KENTUCKY #2 SOUTH

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	278670	0	278670	149
WHITE BASS	29650	12810	42460	16
STRIPED BASS	13550	4060	17610	13
ANY SUNFISH	16610	0	16610	9
ANY BLACK BASS	460200	1720	461920	136
LARGEMOUTH BASS	46040	0	46040	8
ANY CRAPPIE	110070	32020	142100	98
SAUGER	303780	0	303780	117
ANY SPECIES	63030	5790	68820	25
TOTAL	**1321600**	**56400**	**1378010**	**571**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=KENTUCKY #2 SOUTH

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
MS	95	8.7
TN	984	90.2
OTHERS	12	1.1

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BENTON	106	11.2
DECATUR	98	10.3
HARDIN	97	10.2
HUMPHREYS	123	12.9
MADISON	115	12.1
PERRY	68	7.2
OTHERS IN TN	343	36.1

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	719	68.0
B) 26-100	319	30.2
C) 101-250	15	1.4
D) > 250	5	0.5

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	557	93.5
B) VACATION	19	3.2
C) BUSINESS	20	3.4

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	548	93.8
B) 2-5	34	5.8
C) 6-10	1	0.2
D) 11-15	1	0.2

BARKLEY

RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=BARKLEY

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	1066	47.6	0.1	208	0.0	0.8
02 FEBRUARY	1400	15.2	0.1	256	0.0	1.1
04 APRIL	26759	12.2	1.5	4302	0.2	20.4
05 MAY	36449	37.6	2.0	6087	0.3	27.8
06 JUNE	18132	12.5	1.0	2814	0.2	13.8
07 JULY	13795	30.1	0.8	2239	0.1	10.5
08 AUGUST	6716	2.0	0.4	1311	0.1	5.1
09 SEPTEMBER	7524	34.0	0.4	1156	0.1	5.7
10 OCTOBER	13006	17.0	0.7	2046	0.1	9.9
11 NOVEMBER	4829	22.8	0.3	979	0.1	3.7
12 DECEMBER	1443	21.2	0.1	307	0.0	1.1
TOTAL	**131119**			**21705**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=BARKLEY

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	3027	49.1	2.84	11.1	2420	48.8	2.27	10.1
02 FEBRUARY	2492	17.1	1.78	7.8	1876	16.1	1.34	5.1
04 APRIL	69573	18.5	2.60	13.8	27829	22.4	1.04	18.7
05 MAY	116637	44.2	3.20	21.8	67431	46.6	1.85	25.7
06 JUNE	40072	17.5	2.21	12.1	20670	22.2	1.14	18.2
07 JULY	21934	30.9	1.59	6.4	4552	34.8	0.33	16.5
08 AUGUST	11149	9.8	1.66	9.5	3022	13.7	0.45	13.6
09 SEPTEMBER	3687	37.5	0.49	14.9	1053	37.8	0.14	15.7
10 OCTOBER	21720	23.0	1.67	15.1	8064	19.4	0.62	9.1
11 NOVEMBER	11541	31.7	2.39	21.4	6229	35.2	1.29	26.1
12 DECEMBER	2958		2.05		1645		1.14	
TOTAL	**304790**				**144791**			

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=BARKLEY

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
BLUE CATFISH	12759	128.4	4.2	11750	11408	135.1	7.9	10915	10.6	2.05	162
CHANNEL CATFISH	4328	190.6	1.4	4063	4328	190.6	3.0	4063	0.0	2.36	49
FLATHEAD CATFISH	87	1827.1	0.0	87	87	1827.1	0.1	87	0.0	2.10	1
WHITE BASS	4549	86.9	1.5	3791	1823	86.3	1.3	1823	59.9	0.69	47
YELLOW BASS	19137	52.9	6.3	1211	134	448.3	0.1	134	99.3	0.33	3
STRIPED BASS	105	739.8	0.0	0	56	858.6	0.0	0	46.7	1.80	1
BLUEGILL	68187	42.5	22.4	63826	48323	53.2	33.4	48323	29.1	0.27	477
REDEAR SUNFISH	9447	154.1	3.1	9447	9167	158.2	6.3	9167	3.0	0.52	77
SMALLMOUTH BASS	50	1725.3	0.0	50	0		0.0	0	100.0		0
LARGEMOUTH BASS	79846	18.3	26.2	77430	1861	145.0	1.3	1861	97.7	2.58	19
WHITE CRAPPIE	56636	35.2	18.6	56636	35585	46.2	24.6	35585	37.2	0.73	484
BLACK CRAPPIE	47957	30.6	15.7	47712	32022	36.9	22.1	31906	33.2	0.89	550
FRESHWATER DRUM	1835	282.3	0.6	153	0		0.0	0	100.0		0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=BARKLEY

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	22031	17.6	3565	16.8	0.89	31.5	0.85	30.5	42
WHITE BASS	1623	42.0	291	1.2	2.07	26.9	1.18	31.8	9
ANY SUNFISH	9995	43.2	1640	7.6	7.73	9.0	6.29	10.0	8
ANY BLACK BASS	50129	15.0	8274	38.2	2.01	13.8	0.24	27.0	115
ANY CRAPPIE	37208	15.0	6285	28.4	3.74	18.0	2.41	17.5	97
ANY SPECIES	10131	35.0	1647	7.7	1.37	30.5	0.64	42.1	11
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TOTAL	**131117**		**21702**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=BARKLEY

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	BLUE CATFISH	0.66	0.62
	CHANNEL CATFISH	0.23	0.23
	FLATHEAD CATFISH	0.00	0.00
ANY SUNFISH			
	BLUEGILL	6.73	5.29
	REDEAR SUNFISH	1.00	1.00
ANY BLACK BASS			
	SMALLMOUTH BASS	0.00	0.00
	LARGEMOUTH BASS	1.54	0.04
ANY CRAPPIE			
	WHITE CRAPPIE	2.03	1.27
	BLACK CRAPPIE	1.71	1.14

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=BARKLEY

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.00	1
04 APRIL	16	1.58	3	2.31	10
05 MAY	67	1.98	5	1.83	6
06 JUNE	75	2.38	11	1.59	9
07 JULY	54	2.44	9	1.43	14
08 AUGUST	0		0	1.66	11
09 SEPTEMBER	54	1.78	5	1.64	6
10 OCTOBER	10	1.63	2	2.67	15
11 NOVEMBER	0		0	1.09	6
12 DECEMBER	0		0	0.73	1

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS
FOR INTENDED SPECIES - 2008

LAKE=BARKLEY

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	58840	22420	81260	41
WHITE BASS	6400	2100	8110	9
ANY SUNFISH	41810	19560	61370	8
ANY BLACK BASS	410510	307710	718220	114
ANY CRAPPIE	129990	69140	199130	97
ANY SPECIES	27200	13480	40690	11
TOTAL	**674750**	**434410**	**1108780**	**280**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=BARKLEY

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	558	99.6
OTHERS	2	0.4

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
MONTGOMERY	268	48.2
ROBERTSON	40	7.2
STEWART	212	38.1
OTHERS IN TN	36	6.5

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	263	47.0
B) 26-100	295	52.7
D) > 250	2	0.4

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	278	98.6
B) VACATION	3	1.1
C) BUSINESS	1	0.4

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	271	96.1
B) 2-5	11	3.9

PICKWICK

RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=PICKWICK

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	1326	40.0	0.2	234	0.0	2.0
02 FEBRUARY	1602		0.3			2.4
03 MARCH	16607	42.7	2.7	2291	0.4	24.6
04 APRIL	10320	10.9	1.7	1629	0.3	15.3
05 MAY	9733		1.6	1693	0.3	14.4
06 JUNE	6277	38.4	1.0	1065	0.2	9.3
07 JULY	4710	13.3	0.8	853	0.1	7.0
08 AUGUST	4932	9.3	0.8	652	0.1	7.3
09 SEPTEMBER	6300		1.0	1260	0.2	9.3
10 OCTOBER	5733	42.9	0.9	1349	0.2	8.5
11 NOVEMBER	0		0.0			0.0
12 DECEMBER	0		0.0			0.0
TOTAL	**67540**			**11026**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=PICKWICK

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	517		0.39		186		0.14	
03 MARCH	8968		0.54		3155		0.19	
04 APRIL	13210	55.7	1.28	54.5	1754	53.3	0.17	52.9
05 MAY	4283		0.44		779		0.08	
06 JUNE	3452	43.3	0.55	18.7	565	45.9	0.09	22.6
07 JULY	6688	38.8	1.42	36.0	1554	19.7	0.33	14.2
08 AUGUST	1973	9.3	0.40	0.3	197	104.7	0.04	100.0
09 SEPTEMBER	3276		0.52		2016		0.32	
10 OCTOBER	2236		0.39		0		0.00	
TOTAL	**44603**				**10206**			

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=PICKWICK

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
BLUE CATFISH	4153	17.7	9.3	4153	3878	14.7	38.0	3878	6.6	4.54	42
CHANNEL CATFISH	2526	69.4	5.7	2526	1338	51.6	13.1	1338	47.0	2.38	30
BLUEGILL	14625	43.2	32.8	14625	2353	24.7	23.1	2353	83.9	0.25	25
SMALLMOUTH BASS	1359	159.1	3.1	1359	16	365.1	0.2	16	98.8	2.10	1
SPOTTED BASS	2520	112.3	5.7	2520	186	0.0	1.8	186	92.6	1.25	1
LARGEMOUTH BASS	16171	28.0	36.3	16171	1330	23.6	13.0	1330	91.8	2.92	17
WHITE CRAPPIE	1198	202.8	2.7	1198	888	89.8	8.7	888	25.9	0.66	37
SAUGER	529	254.5	1.2	212	219	71.8	2.1	219	58.6	1.40	2

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=PICKWICK

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	13582	21.7	2319	20.6	0.76	14.1	0.66	19.0	22
ANY SUNFISH	3941	15.9	682	6.0	3.08		0.00		2
ANY BLACK BASS	32931	19.5	5360	49.9	0.78	25.9	0.09	77.5	48
LARGEMOUTH BASS	333	142.6	53	0.5	1.00		0.00		1
ANY CRAPPIE	996	68.5	170	1.5	1.78		1.53		2
ANY SPECIES	14156	27.6	2442	21.5	2.25	44.1	0.61	56.7	9
TOTAL	**65939**		**11026**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=PICKWICK

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	BLUE CATFISH	0.47	0.49
	CHANNEL CATFISH	0.29	0.17
ANY SUNFISH			
	ANY SUNFISH	0.00	0.00
	BLUEGILL	3.08	0.00
ANY BLACK BASS			
ANY BLACK BASS			
	SMALLMOUTH BASS	0.04	0.00
	SPOTTED BASS	0.08	0.01
	LARGEMOUTH BASS	0.49	0.04
ANY CRAPPIE			
	WHITE CRAPPIE	1.78	1.53

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=PICKWICK

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.86	2
03 MARCH	36	0.63	2	0.86	4
04 APRIL	18	0.50	2	1.04	6
05 MAY	0		0	0.67	5
06 JUNE	60	0.67	3	2.13	5
07 JULY	19	1.00	1	0.83	11
08 AUGUST	99	0.47	4	0.00	1
10 OCTOBER	0		0	0.61	3

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2008

LAKE=PICKWICK

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	22030	6660	24870	21
ANY SUNFISH	2280	0	390	2
ANY BLACK BASS	283160	67990	292530	48
LARGEMOUTH BASS	5260			1
ANY CRAPPIE	1050			1
ANY SPECIES	5980	3690	4890	8
TOTAL	**319760**	**78340**	**322680**	**81**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=PICKWICK

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
MS	86	50.6
TN	80	47.1
OTHERS	4	2.4

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
CHESTER	4	5.0
HARDEMAN	7	8.8
HARDIN	18	22.5
LEWIS	6	7.5
McNAIRY	13	16.3
MADISON	6	7.5
SHELBY	7	8.8
WAYNE	5	6.3
OTHERS IN TN	10	12.5
OUT-OF-STATE	4	5.0

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	107	61.8
B) 26-100	55	31.8
C) 101-250	8	4.6
D) > 250	3	1.7

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	70	83.3
B) VACATION	6	7.1
C) BUSINESS	8	9.5

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	69	82.1
B) 2-5	14	16.7
C) 6-10	1	1.2

REELFOOT
RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=REELFOOT

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
02 FEBRUARY	5992	52.2	0.6	1029	0.1	1.2
03 MARCH	100441	28.1	9.6	14172	1.4	19.3
04 APRIL	223253	16.2	21.4	28157	2.7	42.9
05 MAY	154382	15.3	14.8	18326	1.8	29.7
06 JUNE	17299	16.2	1.7	2368	0.2	3.3
07 JULY	4664	29.4	0.4	691	0.1	0.9
08 AUGUST	4489	41.8	0.4	721	0.1	0.9
09 SEPTEMBER	2477	37.7	0.2	400	0.0	0.5
10 OCTOBER	5623	36.0	0.5	801	0.1	1.1
11 NOVEMBER	1855	60.8	0.2	330	0.0	0.4
TOTAL	**520475**			**66995**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=REELFOOT

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
02 FEBRUARY	8089	60.3	1.35	26.9	6651	60.9	1.11	27.9
03 MARCH	108476	37.6	1.08	24.2	82362	40.1	0.82	27.6
04 APRIL	593853	18.4	2.66	8.5	426413	17.8	1.91	7.2
05 MAY	447708	16.4	2.90	5.8	304133	16.5	1.97	5.9
06 JUNE	39788	29.5	2.30	24.3	23008	30.8	1.33	25.8
07 JULY	8535	50.7	1.83	39.6	4198	76.1	0.90	67.2
08 AUGUST	2649	53.6	0.59	31.1	898	68.6	0.20	50.4
09 SEPTEMBER	1734	54.0	0.70	36.2	446	55.4	0.18	38.2
10 OCTOBER	20187	38.6	3.59	13.1	12314	40.6	2.19	17.7
11 NOVEMBER	1874	62.9	1.01	13.9	686	73.5	0.37	35.1
TOTAL	**1232893**				**861109**			

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=REELFOOT

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
SHORTNOSE GAR	41	1863.0	0.0	0	41	1863.0	0.0	0	0.0	2.85	1
BOWFIN	133	1038.6	0.0	67	0	.	0.0	0	100.0	.	0
CHANNEL CATFISH	26233	52.1	2.1	6843	22102	59.1	2.6	5440	15.7	2.43	260
YELLOW BASS	43221	38.3	3.5	474	26792	54.2	3.1	246	38.0	0.40	218
WARMOUTH	3390	196.2	0.3	3390	808	707.7	0.1	808	76.2	0.42	11
BLUEGILL	358231	13.9	29.0	353856	284475	16.7	33.0	281470	20.6	0.45	3408
LONGEAR SUNFISH	106	3757.8	0.0	106	0	.	0.0	0	100.0	.	0
LARGEMOUTH BASS	35083	37.0	2.8	34886	774	253.4	0.1	774	97.8	3.29	13
WHITE CRAPPIE	752110	11.0	60.9	733718	523926	14.5	60.8	510124	30.3	0.68	4631
BLACK CRAPPIE	1462	821.5	0.1	1329	1462	821.5	0.2	1329	0.0	0.72	11
FRESHWATER DRUM	14360	83.3	1.2	0	728	470.5	0.1	0	94.9	2.41	7

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=REELFOOT

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	6759	26.6	872	1.3	0.55	34.1	0.49	38.1	19
ANY SUNFISH	121760	13.5	14779	23.4	2.50	5.9	2.05	5.6	251
ANY BLACK BASS	42972	14.1	5526	8.3	0.73	13.2	0.02	86.9	131
ANY CRAPPIE	339830	12.6	44615	65.3	1.91	7.8	1.36	7.9	558
ANY SPECIES	9154	23.8	1203	1.8	0.62	120.3	0.54	136.5	22
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TOTAL	**520475**		**66995**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=REELFOOT

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	CHANNEL CATFISH	0.55	0.49
ANY SUNFISH			
	WARMOUTH	0.02	0.01
	BLUEGILL	2.48	2.04
	LONGEAR SUNFISH	0.00	0.00
ANY BLACK BASS			
	LARGEMOUTH BASS	0.81	0.02
ANY CRAPPIE			
	WHITE CRAPPIE	1.91	1.36
	BLACK CRAPPIE	0.00	0.00

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=REELFOOT

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
03 MARCH	0		0	0.45	13
04 APRIL	0		0	1.01	17
05 MAY	0		0	0.72	52
06 JUNE	0		0	0.65	16
07 JULY	0		0	0.86	22
08 AUGUST	0		0	0.58	8
09 SEPTEMBER	0		0	0.40	3

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS
FOR INTENDED SPECIES - 2008

LAKE=REELFOOT

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	28790	6710	35500	19
ANY SUNFISH	730520	181250	911770	249
ANY BLACK BASS	121380	47090	168470	131
ANY CRAPPIE	1687950	410150	2098100	557
ANY SPECIES	67840	16460	84300	22
TOTAL	**2636480**	**661660**	**3298140**	**978**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=REELFOOT

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
IL	379	20.6
IN	154	8.4
KY	122	6.6
MO	208	11.3
OH	190	10.3
TN	674	36.7
OTHERS	112	6.1

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
CROCKETT	48	7.1
DYER	116	17.2
LAKE	67	9.9
OBION	316	46.9
OTHERS IN TN	125	18.5
OUT-OF-STATE	2	0.3

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	383	20.8
B) 26-100	442	24.0
C) 101-250	262	14.2
D) > 250	752	40.9

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	983	100

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	523	53.2
B) 2-5	361	36.7
C) 6-10	94	9.6
D) 11-15	3	0.3
F) >20	2	0.2

TWRA

REGION II

TIMS FORD

RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=TIMS FORD

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	2426	50.7	0.2	462	0.0	4.3
02 FEBRUARY	2142	15.8	0.2	491	0.0	3.8
03 MARCH	5010	33.8	0.5	885	0.1	8.9
04 APRIL	6784	22.1	0.6	1147	0.1	12.0
05 MAY	5794	17.4	0.5	1064	0.1	10.3
06 JUNE	5392	27.0	0.5	1322	0.1	9.6
07 JULY	10175	36.1	1.0	2327	0.2	18.0
08 AUGUST	3422	36.7	0.3	709	0.1	6.1
09 SEPTEMBER	6074	26.7	0.6	1241	0.1	10.8
10 OCTOBER	4910	19.8	0.5	1019	0.1	8.7
11 NOVEMBER	2879	21.3	0.3	650	0.1	5.1
12 DECEMBER	1399	61.7	0.1	325	0.0	2.5
TOTAL	**56407**			**11642**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=TIMS FORD

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	2377	86.1	0.98	62.2	146	65.3	0.06	38.0
02 FEBRUARY	1821	43.9	0.85	40.5	129	79.5	0.06	72.4
03 MARCH	3908	37.6	0.78	15.5	1353	36.3	0.27	12.2
04 APRIL	3121	36.9	0.46	28.6	339	71.1	0.05	64.2
05 MAY	6779	81.8	1.17	79.0	1506	85.0	0.26	80.9
06 JUNE	2696	66.9	0.50	59.3	377	72.4	0.07	64.8
07 JULY	5393	43.3	0.53	22.5	2442	70.2	0.24	57.4
08 AUGUST	1266	45.8	0.37	25.6	376	55.1	0.11	40.4
09 SEPTEMBER	2733	35.4	0.45	22.7	1093	46.1	0.18	36.6
10 OCTOBER	1915	39.9	0.39	33.9	589	52.4	0.12	48.0
11 NOVEMBER	2994	39.0	1.04	32.0	921	74.8	0.32	71.1
12 DECEMBER	783	120.7	0.56	88.1	182	113.3	0.13	78.3
TOTAL	**35786**				**9453**			

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=TIMS FORD

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
ANY GAR	62	580.5	0.2	0	0		0.0	0	100.0		0
CARP	37	837.0	0.1	0	0		0.0	0	100.0		0
BLUE CATFISH	42	575.5	0.1	0	42	575.5	0.4	0	0.0	0.86	1
CHANNEL CATFISH	1764	61.6	4.9	1283	1244	70.8	13.2	1175	29.5	1.01	18
FLATHEAD CATFISH	34	571.8	0.1	34	0		0.0	0	100.0		0
WHITE BASS	755	156.6	2.1	240	209	229.2	2.2	42	72.3	0.69	5
STRIPED BASS	747	118.4	2.1	575	393	131.0	4.2	360	47.4	7.13	12
CHEROKEE BASS	1024	100.2	2.9	341	726	113.2	7.7	311	29.1	4.06	21
BLUEGILL	3475	63.5	9.7	3273	615	115.7	6.5	564	82.3	0.15	12
SMALLMOUTH BASS	7933	31.3	22.2	7675	476	52.0	5.0	413	94.0	3.16	15
SPOTTED BASS	2102	57.2	5.9	1972	73	124.5	0.8	58	96.5	1.02	5
LARGEMOUTH BASS	5306	35.3	14.8	5163	699	71.2	7.4	699	86.8	2.20	20
WHITE CRAPPIE	482	152.4	1.3	482	401	132.5	4.2	401	16.8	0.75	13
BLACK CRAPPIE	1324	77.0	3.7	1245	1196	79.3	12.7	1196	9.7	0.87	47
BLACKNOSE CRAPPIE	3013	40.7	8.4	2926	2760	42.8	29.2	2699	8.4	1.09	83
WALLEYE	95	234.9	0.3	63	95	234.9	1.0	63	0.0	2.48	5
FRESHWATER DRUM	220	432.4	0.6	37	0		0.0	0	100.0		0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=TIMS FORD

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	521	73.1	111	0.9	0.29		0.00		3
WHITE BASS	251	69.7	50	0.4	0.46	0.0	0.00		3
STRIPED BASS	5962	24.2	1280	10.6	0.10	55.5	0.06	92.8	40
CHEROKEE BASS	789	44.0	158	1.4	0.36	44.1	0.30	57.9	7
ANY SUNFISH	1942	38.3	440	3.4	0.49	42.6	0.00		7
ANY BLACK BASS	26982	10.3	5477	47.8	0.38	24.7	0.03	65.5	239
SMALLMOUTH BASS	214	76.4	41	0.4	0.47		0.00		3
LARGEMOUTH BASS	97	113.8	20	0.2	0.00		0.00		1
ANY CRAPPIE	7867	14.6	1614	13.9	0.94	59.9	0.49	58.3	86
WALLEYE	2787	28.5	606	4.9	0.01	86.2	0.01	86.2	14
ANY SPECIES	8995	19.0	1846	15.9	0.78	40.6	0.23	68.5	54
TOTAL	**56407**		**11643**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=TIMS FORD

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	BLUE CATFISH	0.00	0.00
	CHANNEL CATFISH	0.28	0.00
	FLATHEAD CATFISH	0.01	0.00
ANY SUNFISH			
	ANY SUNFISH	0.00	0.00
	BLUEGILL	0.49	0.00
ANY BLACK BASS			
ANY BLACK BASS			
ANY BLACK BASS			
	SMALLMOUTH BASS	0.28	0.02
	SPOTTED BASS	0.07	0.00
	LARGEMOUTH BASS	0.19	0.03
ANY CRAPPIE			
	ANY CRAPPIE	0.00	0.00
	WHITE CRAPPIE	0.10	0.05
	BLACK CRAPPIE	0.25	0.14
	BLACKNOSE CRAPPIE	0.59	0.31

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=TIMS FORD

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	29	0.36	5	0.49	13
02 FEBRUARY	0		0	0.18	15
03 MARCH	0		0	0.57	34
04 APRIL	33	0.19	11	0.56	32
05 MAY	48	0.29	6	0.40	19
06 JUNE	0		0	0.25	17
07 JULY	0		0	0.29	11
08 AUGUST	0		0	0.44	11
09 SEPTEMBER	0		0	0.38	18
10 OCTOBER	0		0	0.25	19
11 NOVEMBER	42	0.47	6	0.56	20
12 DECEMBER	0		0	0.37	6

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS
FOR INTENDED SPECIES - 2008

LAKE=TIMS FORD

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
WHITE BASS	1000	1000	2000	1
STRIPED BASS	24090	11620	35710	3
ANY BLACK BASS	79520	89950	169470	15
ANY CRAPPIE	18850	21680	40530	10
WALLEYE	670	330	1000	1
ANY SPECIES	17980	22350	40320	4
TOTAL	**142110**	**146930**	**289030**	**34**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=TIMS FORD

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
IN	6	5.8
TN	94	90.4
OTHERS	4	3.8

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BEDFORD	15	17.4
COFFEE	5	5.8
FRANKLIN	50	58.1
MARSHALL	5	5.8
OTHERS IN TN	11	12.8

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	72	76.6
B) 26-100	17	18.1
C) 101-250	5	5.3

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	43	91.5
B) VACATION	2	4.3
D) OTHER	2	4.3

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	37	90.2
B) 2-5	4	9.8

NORMANDY

RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=NORMANDY

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	247	53.0	0.1	55	0.0	0.7
02 FEBRUARY	1735	22.8	0.6	392	0.1	4.9
03 MARCH	2173	40.9	0.7	454	0.1	6.1
04 APRIL	3712	52.0	1.2	632	0.2	10.5
05 MAY	3601	44.3	1.2	858	0.3	10.2
06 JUNE	4644	21.8	1.5	1086	0.4	13.1
07 JULY	5995	22.4	2.0	1154	0.4	16.9
08 AUGUST	3413	32.4	1.1	675	0.2	9.6
09 SEPTEMBER	1373	45.3	0.5	308	0.1	3.9
10 OCTOBER	5207	31.7	1.7	976	0.3	14.7
11 NOVEMBER	2249	48.7	0.7	479	0.2	6.4
12 DECEMBER	1038	46.7	0.3	191	0.1	2.9
TOTAL	**35387**			**7260**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=NORMANDY

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	519	72.8	2.10	44.3	331	99.7	1.34	74.6
02 FEBRUARY	364	42.1	0.21	34.4	156	22.8	0.09	0.0
03 MARCH	630	46.8	0.29	21.3	87	69.1	0.04	48.8
04 APRIL	2153	66.1	0.58	36.1	1448	82.5	0.39	57.2
05 MAY	2701	49.9	0.75	21.1	684	53.5	0.19	26.7
06 JUNE	2879	28.7	0.62	18.2	1440	49.9	0.31	43.3
07 JULY	2998	29.7	0.50	18.8	480	44.4	0.08	38.9
08 AUGUST	1297	41.8	0.38	24.8	580	54.2	0.17	41.2
09 SEPTEMBER	1098	62.0	0.80	38.7	302	67.5	0.22	46.1
10 OCTOBER	2812	49.5	0.54	36.5	833	65.8	0.16	54.2
11 NOVEMBER	2339	51.2	1.04	14.5	405	63.6	0.18	36.5
12 DECEMBER	529	52.8	0.51	22.2	218	98.0	0.21	76.9
TOTAL	**20319**				**6964**			

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=NORMANDY

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CARP	7	966.8	0.0	0	0		0.0	0	100.0		0
ANY CARPSUCKER	27	867.9	0.1	14	0		0.0	0	100.0		0
YELLOW BULLHEAD	24	482.4	0.1	24	24	482.4	0.3	24	0.0	2.15	3
BLUE CATFISH	70	411.0	0.3	40	70	411.0	1.0	40	0.0	4.50	7
CHANNEL CATFISH	640	88.3	3.2	516	412	89.3	5.9	356	35.6	2.97	44
FLATHEAD CATFISH	188	146.3	0.9	171	179	150.7	2.6	162	4.8	4.70	21
ROCK BASS	46	677.2	0.2	31	39	779.6	0.6	39	15.2	0.56	2
WARMOUTH	31	548.4	0.2	16	19	805.5	0.3	0	38.7	0.78	1
BLUEGILL	368	163.8	1.8	156	8	513.1	0.1	0	97.8	0.32	1
SMALLMOUTH BASS	595	121.3	2.9	583	67	226.6	1.0	60	88.7	2.49	9
SPOTTED BASS	5076	20.4	25.1	4843	1699	32.8	24.4	1668	66.5	1.18	156
LARGEMOUTH BASS	3109	24.3	15.3	3063	578	41.2	8.3	562	81.4	3.01	71
WHITE CRAPPIE	597	97.8	2.9	597	549	100.3	7.9	549	8.0	1.02	31
BLACK CRAPPIE	574	89.3	2.8	515	542	92.7	7.8	482	5.6	1.17	36
BLACKNOSE CRAPPIE	3528	32.0	17.4	3333	2776	33.9	39.9	2645	21.3	1.30	190
YELLOW PERCH	53	420.4	0.3	40	0		0.0	0	100.0		0
WALLEYE	37	721.7	0.2	25	0		0.0	0	100.0		0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=NORMANDY

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	2332	25.8	463	6.6	0.32	39.1	0.24	55.8	21
ANY SUNFISH	217	80.3	42	0.6	1.67		0.00		1
ANY BLACK BASS	18176	11.9	3781	51.4	0.52	27.4	0.18	58.7	209
LARGEMOUTH BASS	177	64.0	35	0.5	0.28	20.9	0.00		3
ANY CRAPPIE	11329	17.4	2293	32.0	0.67	46.6	0.29	46.9	100
WALLEYE	117	82.3	25	0.3	0.13	127.1	0.00		3
ANY SPECIES	3036	23.9	620	8.6	0.31	71.4	0.01	244.4	24
TOTAL	**35384**		**7259**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=NORMANDY

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	YELLOW BULLHEAD	0.01	0.01
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.02	0.02
	CHANNEL CATFISH	0.22	0.15
	FLATHEAD CATFISH	0.07	0.07
ANY SUNFISH			
	ANY SUNFISH	0.00	0.00
	WARMOUTH	0.16	0.00
	BLUEGILL	1.51	0.00
ANY BLACK BASS			
ANY BLACK BASS			
	ANY BLACK BASS	0.00	0.00
	SMALLMOUTH BASS	0.03	0.00
	SPOTTED BASS	0.26	0.09
	LARGEMOUTH BASS	0.17	0.03
ANY CRAPPIE			
	ANY CRAPPIE	0.00	0.00
	WHITE CRAPPIE	0.09	0.04
	BLACK CRAPPIE	0.08	0.04
	BLACKNOSE CRAPPIE	0.50	0.21

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=NORMANDY

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	3.75	1
02 FEBRUARY	0		0	0.32	5
03 MARCH	24	0.64	10	0.32	20
04 APRIL	0		0	0.19	12
05 MAY	0		0	0.58	18
06 JUNE	23	1.40	9	0.50	27
07 JULY	18	0.80	7	0.45	23
08 AUGUST	34	0.58	11	0.59	22
09 SEPTEMBER	25	0.04	3	0.44	10
10 OCTOBER	0		0	0.27	9
11 NOVEMBER	0		0	0.64	9
12 DECEMBER	0		0	0.28	16

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2008

LAKE=NORMANDY

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY BLACK BASS	26300	23920	50220	10
ANY CRAPPIE	16680	15210	31880	7
ANY SPECIES	1350	1670	3020	2
TOTAL	**44330**	**40800**	**85120**	**19**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=NORMANDY

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	42	100

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BEDFORD	18	43.9
COFFEE	6	14.6
FRANKLIN	8	19.5
OTHERS IN TN	9	22.0

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	25	59.5
B) 26-100	17	40.5

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	24	100

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	23	100

J. PERCY PRIEST RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=PERCY PRIEST

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	26388	21.3	1.9	5824	0.4	3.4
02 FEBRUARY	37500	7.4	2.6	7868	0.6	4.8
03 MARCH	92702	8.4	6.5	22260	1.6	11.8
04 APRIL	103454	13.4	7.3	22183	1.6	13.2
05 MAY	105559	14.0	7.4	22786	1.6	13.5
06 JUNE	103427	6.4	7.3	23563	1.7	13.2
07 JULY	105938	27.5	7.5	24386	1.7	13.5
08 AUGUST	61150	28.3	4.3	12963	0.9	7.8
09 SEPTEMBER	54956	7.1	3.9	11854	0.8	7.0
10 OCTOBER	40577	13.8	2.9	9191	0.6	5.2
11 NOVEMBER	38943	9.7	2.7	8613	0.6	5.0
12 DECEMBER	13102	39.3	0.9	3011	0.2	1.7
TOTAL	**783696**			**174502**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=PERCY PRIEST

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	34041	23.4	1.29	9.3	11083	25.4	0.42	13.6
02 FEBRUARY	29625	26.8	0.79	25.8	12000	45.3	0.32	44.6
03 MARCH	162229	34.2	1.75	33.1	51913	28.4	0.56	26.9
04 APRIL	136559	16.4	1.32	9.4	36209	20.3	0.35	15.1
05 MAY	118226	19.0	1.12	12.8	25334	20.0	0.24	13.9
06 JUNE	112735	17.8	1.09	16.6	26891	21.1	0.26	20.1
07 JULY	126066	34.4	1.19	20.0	45553	39.2	0.43	27.1
08 AUGUST	88056	36.6	1.44	22.3	25072	49.3	0.41	38.5
09 SEPTEMBER	91227	18.1	1.66	16.5	26379	30.2	0.48	29.5
10 OCTOBER	60460	19.2	1.49	13.2	15419	21.9	0.38	17.0
11 NOVEMBER	53741	21.4	1.38	18.9	12851	23.2	0.33	20.9
12 DECEMBER	22929	60.4	1.75	42.8	4193	48.0	0.32	25.3
TOTAL	**1035894**				**292897**			

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=PERCY PRIEST

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
SKIPJACK HERRING	1526	513.1	0.1	0	66	1428.1	0.0	0	95.7	1.85	1
CARP	1198	582.9	0.1	737	169	678.2	0.1	169	85.9	6.73	2
BLUE CATFISH	466	998.4	0.0	280	239	1256.7	0.1	239	48.7	7.00	2
CHANNEL CATFISH	27809	35.7	2.7	19294	17533	41.6	6.0	14260	37.0	1.58	150
FLATHEAD CATFISH	2474	269.7	0.2	1237	2093	261.4	0.7	1196	15.4	9.87	21
RAINBOW TROUT	70	3861.8	0.0	0	0		0.0	0	100.0		0
WHITE BASS	58108	25.3	5.6	31022	14027	39.8	4.8	9287	75.9	0.88	144
YELLOW BASS	99402	20.2	9.6	50608	29930	27.3	10.2	17103	69.9	0.39	301
STRIPED BASS	6917	155.1	0.7	4249	2510	178.6	0.9	1778	63.7	5.66	24
CHEROKEE BASS	31849	43.1	3.1	15582	9750	63.5	3.3	5766	69.4	5.02	91
GREEN SUNFISH	24851	73.7	2.4	19714	14293	72.4	4.9	11101	42.5	0.15	103
WARMOUTH	449	954.9	0.0	180	348	968.9	0.1	174	22.5	0.37	4
BLUEGILL	117302	17.7	11.3	80560	35690	23.1	12.2	31325	69.6	0.25	278
LONGEAR SUNFISH	9091	130.5	0.9	7556	4241	159.0	1.4	3484	53.3	0.18	28
REDEAR SUNFISH	227	1575.5	0.0	0	101	1259.6	0.0	0	55.5	0.20	1
SMALLMOUTH BASS	17372	86.7	1.7	3647	2333	112.7	0.8	350	86.6	2.09	20
SPOTTED BASS	34739	48.4	3.4	4749	3746	71.4	1.3	672	89.2	1.01	39
LARGEMOUTH BASS	276652	9.5	26.7	238325	19158	17.6	6.5	17974	93.1	2.63	178
WHITE CRAPPIE	202072	11.6	19.5	191736	76113	14.9	26.0	73398	62.3	0.74	726
BLACK CRAPPIE	118132	17.0	11.4	114816	59998	19.8	20.5	58191	49.2	0.82	490
BLACKNOSE CRAPPIE	921	957.0	0.1	921	155	1841.2	0.1	155	83.2	0.55	1
SAUGER	126	2652.8	0.0	126	0		0.0	0	100.0		0
FRESHWATER DRUM	5001	201.9	0.5	727	336	525.9	0.1	224	93.3	0.81	3

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=PERCY PRIEST

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	48914	11.4	10870	6.2	0.33	54.1	0.24	60.7	137
WHITE BASS	13845	17.8	3089	1.8	0.56	110.8	0.20	132.9	43
STRIPED BASS	26829	14.0	5957	3.4	0.07	93.0	0.02	82.0	78
CHEROKEE BASS	25669	12.8	5667	3.3	0.52	57.5	0.14	61.7	70
ANY SUNFISH	23340	18.2	5275	3.0	2.31	42.7	1.00	52.5	50
ANY BLACK BASS	1181	73.9	272	0.2	0.00		0.00		2
SMALLMOUTH BASS	2570	45.6	587	0.3	0.35	75.8	0.00		10
SPOTTED BASS	622	63.1	140	0.1	1.51	7.8	0.00		3
LARGEMOUTH BASS	266450	6.4	59068	34.0	0.63	18.8	0.04	30.7	804
ANY CRAPPIE	174730	6.4	39100	22.3	1.28	20.2	0.52	24.6	500
ANY SPECIES	199542	7.0	44475	25.5	1.06	24.8	0.39	33.1	481
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TOTAL	**783692**		**174500**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=PERCY PRIEST

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	BLUE CATFISH	0.00	0.00
	CHANNEL CATFISH	0.31	0.22
	FLATHEAD CATFISH	0.02	0.02
ANY SUNFISH			
	GREEN SUNFISH	0.42	0.24
	WARMOUTH	0.00	0.00
	BLUEGILL	1.72	0.68
	LONGEAR SUNFISH	0.16	0.08
	REDEAR SUNFISH	0.00	0.00
ANY BLACK BASS			
ANY BLACK BASS			
ANY BLACK BASS			
ANY BLACK BASS			
	SMALLMOUTH BASS	0.01	0.00
	SPOTTED BASS	0.02	0.00
	LARGEMOUTH BASS	0.88	0.07
	LARGEMOUTH BASS	0.88	0.07
ANY CRAPPIE			
	ANY CRAPPIE	0.00	0.00
	WHITE CRAPPIE	0.80	0.29
	BLACK CRAPPIE	0.48	0.23
	BLACKNOSE CRAPPIE	0.00	0.00

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=PERCY PRIEST

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	64	0.64	8	0.95	29
02 FEBRUARY	52	0.37	20	0.20	23
03 MARCH	29	0.07	4	0.58	26
04 APRIL	43	0.89	26	0.78	81
05 MAY	20	0.65	14	0.89	114
06 JUNE	39	0.80	32	0.75	68
07 JULY	5	0.35	7	0.46	60
08 AUGUST	17	0.47	14	0.55	110
09 SEPTEMBER	12	0.45	9	0.67	74
10 OCTOBER	0		0	0.45	31
11 NOVEMBER	53	0.51	16	0.27	37
12 DECEMBER	0		0	0.47	16

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS
FOR INTENDED SPECIES - 2008

LAKE=PERCY PRIEST

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	134740	67110	201860	49
WHITE BASS	42310	21670	63980	16
STRIPED BASS	86640	30160	116790	32
CHEROKEE BASS	124720	63830	188550	17
ANY SUNFISH	53850	34690	88550	23
ANY BLACK BASS	4700	4700	9390	1
SMALLMOUTH BASS	7200	9400	16610	7
LARGEMOUTH BASS	1371980	284950	1656930	146
ANY CRAPPIE	348550	171600	520150	83
ANY SPECIES	469610	136810	606420	64
TOTAL	**2644300**	**824920**	**3469230**	**438**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=PERCY PRIEST

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	851	97.9
OTHERS	18	2.1

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
DAVIDSON	204	24.1
RUTHERFORD	442	52.2
WILLIAMSON	45	5.3
WILSON	79	9.3
OTHERS IN TN	71	8.4
OUT-OF-STATE	5	0.6

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	675	78.8
B) 26-100	158	18.4
C) 101-250	5	0.6
D) > 250	19	2.2

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	442	99.5
B) VACATION	1	0.2
C) BUSINESS	1	0.2

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	433	98.2
B) 2-5	5	1.1
C) 6-10	1	0.2
D) 11-15	1	0.2
E) 16-20	1	0.2

OLD HICKORY RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=OLD HICKORY

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	27655	29.3	1.2	6291	0.3	2.8
02 FEBRUARY	25915	63.2	1.2	5299	0.2	2.7
03 MARCH	44928	23.5	2.0	9753	0.4	4.6
04 APRIL	124094	31.5	5.5	26627	1.2	12.8
05 MAY	165656	15.7	7.4	31046	1.4	17.1
06 JUNE	149338	21.2	6.6	28870	1.3	15.4
07 JULY	158740	15.1	7.1	39351	1.7	16.4
08 AUGUST	97285	9.7	4.3	22252	1.0	10.0
09 SEPTEMBER	75821	6.6	3.4	18472	0.8	7.8
10 OCTOBER	56625	22.3	2.5	12301	0.5	5.8
11 NOVEMBER	20724	43.8	0.9	3858	0.2	2.1
12 DECEMBER	23728	36.7	1.1	4389	0.2	2.4
TOTAL	**970509**			**208509**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=OLD HICKORY

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	41759	37.9	1.51	23.1	12721	40.9	0.46	27.3
02 FEBRUARY	20473	102.2	0.79	68.1	14512	105.4	0.56	71.7
03 MARCH	47624	36.7	1.06	27.5	10333	38.7	0.23	29.7
04 APRIL	265561	32.9	2.14	9.1	57083	33.1	0.46	9.8
05 MAY	417453	17.9	2.52	8.5	44727	26.2	0.27	20.9
06 JUNE	228487	24.2	1.53	11.4	16427	26.3	0.11	15.2
07 JULY	220649	27.0	1.39	22.1	41272	40.1	0.26	36.2
08 AUGUST	122579	21.8	1.26	19.4	16538	28.6	0.17	26.0
09 SEPTEMBER	98567	20.1	1.30	19.0	14406	25.5	0.19	24.1
10 OCTOBER	84371	32.6	1.49	23.3	9060	47.4	0.16	41.0
11 NOVEMBER	23004	55.0	1.11	30.7	7046	46.7	0.34	14.9
12 DECEMBER	27287	41.7	1.15	18.6	10678	48.2	0.45	29.6
TOTAL	**1597814**				**254803**			

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=OLD HICKORY

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CARP	983	1086.4	0.1	0	0		0.0	0	100.0		0
ANY BUFFALO	2613	644.2	0.2	0	207	1213.4	0.1	0	92.1	38.45	1
ANY BULLHEAD	241	1617.5	0.0	241	241	1617.5	0.1	241	0.0	0.71	1
BLUE CATFISH	3073	254.2	0.2	2806	1849	348.0	0.7	1681	39.8	9.49	11
CHANNEL CATFISH	32070	49.9	2.0	23610	23667	46.1	9.3	20106	26.2	2.99	113
FLATHEAD CATFISH	1201	324.2	0.1	764	906	281.8	0.4	566	24.6	2.30	8
RAINBOW TROUT	111	3155.7	0.0	0	0		0.0	0	100.0		0
BROWN TROUT	111	3155.7	0.0	0	0		0.0	0	100.0		0
WHITE BASS	87624	34.3	5.5	44200	30713	33.1	12.1	21608	64.9	0.98	226
YELLOW BASS	101769	47.8	6.4	21446	10141	60.8	4.0	3877	90.0	0.37	68
STRIPED BASS	17943	133.4	1.1	14076	8747	84.6	3.4	6517	51.3	8.13	51
CHEROKEE BASS	690	931.1	0.0	99	343	388.0	0.1	0	50.3	4.70	4
GREEN SUNFISH	17179	148.3	1.1	16008	11201	97.3	4.4	10124	34.8	0.18	52
WARMOUTH	11992	204.3	0.8	2692	2377	211.6	0.9	1297	80.2	0.31	11
BLUEGILL	316187	16.4	19.8	210423	47316	23.1	18.6	36061	85.0	0.26	206
LONGEAR SUNFISH	9289	441.8	0.6	9062	3702	157.2	1.5	3702	60.1	0.17	22
REDEAR SUNFISH	12758	404.1	0.8	10935	3170	133.4	1.2	2642	75.2	0.29	24
SMALLMOUTH BASS	12812	209.5	0.8	1363	0		0.0	0	100.0		0
SPOTTED BASS	16016	166.4	1.0	4368	1490	276.0	0.6	0	90.7	0.82	8
LARGEMOUTH BASS	697614	10.8	43.7	659016	32926	19.2	12.9	31687	95.3	1.96	183
WHITE CRAPPIE	130723	25.9	8.2	111572	49872	27.1	19.6	43949	61.8	0.94	261
BLACK CRAPPIE	22395	108.7	1.4	20423	11031	72.8	4.3	9975	50.7	0.94	94
BLACKNOSE CRAPPIE	1118	438.9	0.1	1118	1118	438.9	0.4	1118	0.0	0.82	7
SAUGER	59955	89.0	3.8	47007	9909	83.4	3.9	7755	83.5	1.38	64
WALLEYE	16626	250.7	1.0	3658	1417	279.4	0.6	354	91.5	2.81	8
FRESHWATER DRUM	23767	94.1	1.5	3436	2342	190.5	0.9	1561	90.1	0.80	9

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=OLD HICKORY

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	69273	13.3	15380	7.1	0.37	29.9	0.32	33.9	95
BROWN TROUT	742	139.6	184	0.1	0.00		0.00		1
WHITE BASS	34966	18.6	7396	3.6	1.21	29.0	0.72	36.2	57
STRIPED BASS	54870	13.9	11887	5.7	0.18	47.9	0.09	62.6	87
CHEROKEE BASS	1167	83.8	226	0.1	0.00		0.00		1
ANY SUNFISH	40453	17.3	8606	4.2	3.91	51.8	0.50	66.2	52
SMALLMOUTH BASS	2371	79.6	443	0.2	0.00		0.00		2
LARGEMOUTH BASS	431904	8.1	92943	44.5	1.16	14.1	0.06	32.0	622
ANY CRAPPIE	105202	17.4	21781	10.8	1.30	22.2	0.61	43.7	147
SAUGER	32664	19.9	6925	3.4	0.80	27.9	0.13	42.5	68
WALLEYE	6304	39.3	1371	0.6	0.42	31.3	0.10	0.0	11
SAUGEYE	1882	96.2	353	0.2	0.00		0.00		1
ANY SPECIES	188461	9.1	40954	19.4	1.18	29.2	0.39	62.4	234
OTHER	251	140.3	57	0.0	0.00		0.00		1
TOTAL	**970510**		**208506**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=OLD HICKORY

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY BULLHEAD	0.00	0.00
	BLUE CATFISH	0.04	0.02
	CHANNEL CATFISH	0.32	0.28
	FLATHEAD CATFISH	0.01	0.01
ANY SUNFISH			
	ANY SUNFISH	0.00	0.00
	GREEN SUNFISH	0.25	0.09
	WARMOUTH	0.04	0.01
	BLUEGILL	3.30	0.33
	LONGEAR SUNFISH	0.14	0.03
	REDEAR SUNFISH	0.17	0.02
ANY BLACK BASS			
ANY BLACK BASS			
	ANY BLACK BASS	0.00	0.00
	SMALLMOUTH BASS	0.00	0.00
	SPOTTED BASS	0.01	0.00
	LARGEMOUTH BASS	1.52	0.07
ANY CRAPPIE			
	WHITE CRAPPIE	1.09	0.49
	BLACK CRAPPIE	0.20	0.11
	BLACKNOSE CRAPPIE	0.01	0.01

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=OLD HICKORY

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.33	3
02 FEBRUARY	90	0.72	12	0.27	5
03 MARCH	0		0	0.67	35
04 APRIL	37	1.40	11	1.62	32
05 MAY	38	1.52	12	1.29	33
06 JUNE	7	0.89	7	1.22	135
07 JULY	1	2.00	1	1.11	61
08 AUGUST	12	1.12	10	1.11	98
09 SEPTEMBER	11	1.06	5	0.85	87
10 OCTOBER	45	0.96	14	0.94	55
11 NOVEMBER	0		0	0.94	3
12 DECEMBER	0		0	0.64	5

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2008

LAKE=OLD HICKORY

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	187110	93330	280440	46
BROWN TROUT	9190	0	9190	1
WHITE BASS	111900	34860	146750	17
STRIPED BASS	323530	176410	499940	26
ANY SUNFISH	115900	44840	160740	22
SMALLMOUTH BASS	880	5290	6170	1
LARGEMOUTH BASS	1945350	645490	2590840	121
ANY CRAPPIE	367510	41230	408740	39
SAUGER	117340	29830	144530	21
WALLEYE	10410	12730	23140	6
ANY SPECIES	233560	274780	508340	28
TOTAL	**3422680**	**1358790**	**4778820**	**328**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=OLD HICKORY

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	570	93.6
OTHERS	39	6.4

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
DAVIDSON	62	10.7
SMITH	30	5.2
SUMNER	119	20.6
WILSON	234	40.6
OTHERS IN TN	125	21.7
OUT-OF-STATE	7	1.2

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	453	74.6
B) 26-100	110	18.1
C) 101-250	10	1.6
D) > 250	34	5.6

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	330	99.7
D) OTHER	1	0.3

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	311	94.2
B) 2-5	8	2.4
C) 6-10	7	2.1
D) 11-15	4	1.2

TWRA

REGION III

CENTER HILL

RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=CENTER HILL

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	20730	45.4	1.1	4085	0.2	6.4
02 FEBRUARY	12100	23.7	0.7	2344	0.1	3.8
03 MARCH	73720	46.8	4.0	12947	0.7	22.9
04 APRIL	58222	28.7	3.2	8781	0.5	18.1
05 MAY	30969	28.6	1.7	5427	0.3	9.6
06 JUNE	24530	25.1	1.3	4560	0.3	7.6
07 JULY	22264	25.0	1.2	4800	0.3	6.9
08 AUGUST	10330	20.8	0.6	2219	0.1	3.2
09 SEPTEMBER	18405	10.6	1.0	3458	0.2	5.7
10 OCTOBER	23796	3.4	1.3	4953	0.3	7.4
11 NOVEMBER	22342	20.4	1.2	3726	0.2	6.9
12 DECEMBER	5001	19.3	0.3	1067	0.1	1.6
TOTAL	**322409**			**58367**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=CENTER HILL

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	5390	73.7	0.26	53.6	2488	72.5	0.12	52.7
02 FEBRUARY	968	40.6	0.08	31.0	605	33.4	0.05	24.5
03 MARCH	36123	48.8	0.49	12.6	14007	59.2	0.19	33.6
04 APRIL	35515	37.5	0.61	23.2	12227	43.7	0.21	31.0
05 MAY	16723	43.7	0.54	31.8	5574	46.1	0.18	35.3
06 JUNE	10793	35.4	0.44	24.3	5642	35.2	0.23	24.4
07 JULY	12023	30.8	0.54	17.7	4675	50.7	0.21	43.8
08 AUGUST	7748	45.1	0.75	39.3	2479	56.9	0.24	51.2
09 SEPTEMBER	16196	23.5	0.88	20.8	3865	23.8	0.21	20.8
10 OCTOBER	22606	16.7	0.95	16.3	9756	21.7	0.41	21.6
11 NOVEMBER	12735	25.1	0.57	14.3	1787	44.3	0.08	36.6
12 DECEMBER	3801	37.6	0.76	31.8	1550	45.3	0.31	40.6
TOTAL	**180621**				**64655**			

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=CENTER HILL

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CHANNEL CATFISH	2866	80.6	1.6	1131	2162	86.3	3.3	1013	24.6	2.78	32
FLATHEAD CATFISH	1060	202.3	0.6	1060	1060	202.3	1.6	1060	0.0	2.24	9
BLUEGILL	17464	42.7	9.7	15292	10313	48.2	16.0	8874	40.9	0.30	129
REDEAR SUNFISH	361	472.9	0.2	0	0	.	0.0	0	100.0	.	0
SMALLMOUTH BASS	10065	53.8	5.6	9070	1860	96.9	2.9	1581	81.5	3.45	20
SPOTTED BASS	85874	15.2	47.7	79974	29491	22.4	45.6	26810	65.7	1.61	264
LARGEMOUTH BASS	18907	38.8	10.5	17787	4929	52.7	7.6	4929	73.9	2.99	41
WHITE CRAPPIE	2278	186.8	1.3	2115	1399	235.1	2.2	1224	38.6	0.83	8
BLACK CRAPPIE	340	703.4	0.2	340	340	703.4	0.5	340	0.0	1.55	2
BLACKNOSE CRAPPIE	23845	37.5	13.2	23434	8389	55.5	13.0	8174	64.8	1.21	78
WALLEYE	14374	30.1	8.0	14374	4711	65.5	7.3	4711	67.2	2.94	38

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=CENTER HILL

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	6342	35.2	1183	2.0	0.22	39.3	0.22	39.3	9
ANY SUNFISH	7019	30.4	1348	2.2	1.95	38.6	1.29	43.7	11
ANY BLACK BASS	160682	14.8	28486	49.8	0.56	18.4	0.19	28.0	274
SMALLMOUTH BASS	5124	44.8	938	1.6	0.10	58.5	0.00		9
SPOTTED BASS	11907	23.8	2299	3.7	0.87	41.7	0.51	46.4	26
ANY CRAPPIE	40187	21.0	7105	12.5	0.96	30.8	0.40	40.5	67
WALLEYE	56375	15.2	10545	17.5	0.21	38.8	0.06	52.4	120
ANY SPECIES	34780	19.4	6465	10.8	0.15	142.4	0.10	131.8	46
TOTAL	**322416**		**58369**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=CENTER HILL

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY CATFISH	0.00	0.00
	CHANNEL CATFISH	0.11	0.11
	FLATHEAD CATFISH	0.11	0.11
ANY SUNFISH			
	BLUEGILL	1.95	1.29
	REDEAR SUNFISH	0.00	0.00
ANY BLACK BASS			
ANY BLACK BASS			
ANY BLACK BASS			
	ANY BLACK BASS	0.00	0.00
	SMALLMOUTH BASS	0.05	0.01
	SPOTTED BASS	0.45	0.15
	LARGEMOUTH BASS	0.10	0.03
ANY CRAPPIE			
	ANY CRAPPIE	0.00	0.00
	WHITE CRAPPIE	0.08	0.05
	BLACK CRAPPIE	0.01	0.01
	BLACKNOSE CRAPPIE	0.87	0.34

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=CENTER HILL

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	18	1.07	2	0.33	21
02 FEBRUARY	34	0.25	9	0.27	30
03 MARCH	47	0.41	15	0.39	38
04 APRIL	48	0.49	15	0.46	36
05 MAY	0		0	0.74	26
06 JUNE	0		0	0.50	26
07 JULY	0		0	0.38	14
08 AUGUST	1	0.00	1	0.67	11
09 SEPTEMBER	0		0	1.17	20
10 OCTOBER	0		0	1.15	14
11 NOVEMBER	71	0.77	7	0.45	12
12 DECEMBER	0		0	0.61	12

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2008

LAKE=CENTER HILL

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	13120	7890	21010	9
ANY SUNFISH	12240	7090	16890	11
ANY BLACK BASS	990180	563410	1553590	274
SMALLMOUTH BASS	27980	31000	54990	9
SPOTTED BASS	54940	36370	89250	26
ANY CRAPPIE	106260	66070	172330	67
WALLEYE	177930	103410	278020	120
ANY SPECIES	63620	49810	112110	46
TOTAL	**1446270**	**865050**	**2298190**	**562**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=CENTER HILL

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

LAKE=CENTER HILL

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	1102	99
OTHERS	11	1

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
DAVIDSON	107	9.7
DEKALB	199	18.0
PUTNAM	207	18.7
RUTHERFORD	60	5.4
SMITH	67	6.1
WARREN	183	16.6
OTHERS IN TN	279	25.2
OUT-OF-STATE	3	0.3

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	740	66.5
B) 26-100	358	32.2
C) 101-250	13	1.2
D) > 250	2	0.2

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	540	93.9
B) VACATION	35	6.1

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	517	89.9
B) 2-5	47	8.2
C) 6-10	9	1.6
D) 11-15	2	0.3

CHICKAMAUGA RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=CHICKAMAUGA

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	29262	28.9	0.8	4840	0.1	5.9
02 FEBRUARY	21280	26.7	0.6	3388	0.1	4.3
03 MARCH	30296	18.5	0.9	4778	0.1	6.1
04 APRIL	56246	16.1	1.6	8929	0.3	11.4
05 MAY	90496	26.9	2.6	14195	0.4	18.3
06 JUNE	39521	10.4	1.1	6259	0.2	8.0
07 JULY	63787	38.9	1.8	10606	0.3	12.9
08 AUGUST	48870	23.2	1.4	7836	0.2	9.9
09 SEPTEMBER	36944	13.1	1.1	6468	0.2	7.5
10 OCTOBER	35797	30.6	1.0	5258	0.2	7.3
11 NOVEMBER	23422	10.4	0.7	3653	0.1	4.7
12 DECEMBER	17587	27.5	0.5	2951	0.1	3.6
TOTAL	**493508**			**79161**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=CHICKAMAUGA

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	93638	31.9	3.20	12.9	17850	35.2	0.61	19.2
02 FEBRUARY	88525	33.1	4.16	18.9	16811	39.4	0.79	28.0
03 MARCH	75740	20.6	2.50	8.9	16663	28.2	0.55	20.8
04 APRIL	193486	18.5	3.44	9.0	49496	22.8	0.88	16.0
05 MAY	287777	32.7	3.18	18.0	85971	35.8	0.95	22.9
06 JUNE	137138	18.4	3.47	15.1	33988	20.7	0.86	17.9
07 JULY	218789	41.1	3.43	12.3	47840	43.6	0.75	18.4
08 AUGUST	144167	25.5	2.95	10.2	28833	29.7	0.59	18.1
09 SEPTEMBER	105290	16.0	2.85	9.0	26230	19.1	0.71	13.7
10 OCTOBER	91998	31.8	2.57	8.1	20404	33.1	0.57	11.9
11 NOVEMBER	73779	16.6	3.15	12.8	13351	18.3	0.57	15.0
12 DECEMBER	49771	34.0	2.83	19.3	9849	46.0	0.56	35.3
TOTAL	**1560098**				**367286**			

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=CHICKAMAUGA

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
LONGNOSE GAR	92	2593.1	0.0	0	0		0.0	0	100.0		0
GOLDEN SHINER	1340	1179.6	0.1	1340	0		0.0	0	100.0		0
BLUE CATFISH	156086	16.0	10.0	143468	63946	18.3	17.4	59917	59.0	3.80	981
CHANNEL CATFISH	67755	29.4	4.3	58726	29669	31.2	8.1	25519	56.2	3.29	416
FLATHEAD CATFISH	11100	121.1	0.7	6580	3267	136.4	0.9	2836	70.6	4.68	52
WHITE BASS	93407	29.6	6.0	48555	31245	33.1	8.5	20010	66.5	1.19	470
YELLOW BASS	142693	18.2	9.1	50141	4539	46.0	1.2	1439	96.8	0.54	82
STRIPED BASS	18489	108.4	1.2	16999	6279	118.6	1.7	5952	66.0	15.38	95
CHEROKEE BASS	64	1737.8	0.0	64	64	1737.8	0.0	64	0.0	9.40	1
WARMOUTH	609	1304.6	0.0	609	283	1351.6	0.1	283	53.5	0.36	5
BLUEGILL	490803	10.4	31.5	253373	139387	15.0	38.0	97984	71.6	0.26	1903
REDEAR SUNFISH	32571	72.7	2.1	27143	21272	73.5	5.8	17817	34.7	0.48	197
SMALLMOUTH BASS	17921	79.6	1.1	15937	749	232.1	0.2	613	95.8	4.06	11
SPOTTED BASS	69585	26.2	4.5	62725	701	122.9	0.2	701	99.0	1.42	12
LARGEMOUTH BASS	223018	13.6	14.3	211682	12201	27.5	3.3	11831	94.5	3.03	193
WHITE CRAPPIE	31070	59.0	2.0	29089	9491	60.9	2.6	8946	69.5	0.87	169
BLACK CRAPPIE	114294	25.9	7.3	96524	42135	27.9	11.5	35974	63.1	0.84	730
BLACKNOSE CRAPPIE	48	4033.5	0.0	48	0		0.0	0	100.0		0
SAUGER	22784	65.2	1.5	22046	1609	154.9	0.4	1526	92.9	1.52	33
FRESHWATER DRUM	65696	27.6	4.2	8727	0		0.0	0	100.0		0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=CHICKAMAUGA

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	100324	10.6	16131	20.3	1.48	15.1	0.63	20.0	267
WHITE BASS	2979	38.0	472	0.6	5.28	27.9	3.01	33.9	9
STRIPED BASS	19536	17.9	3134	4.0	0.58	44.0	0.21	65.9	50
ANY SUNFISH	963	58.1	159	0.2	12.01		5.21		3
ANY BLACK BASS	200330	9.2	32077	40.6	1.18	21.5	0.06	43.0	629
ANY CRAPPIE	40793	11.9	6521	8.3	2.09	21.7	0.84	22.5	130
SAUGER	8829	23.5	1428	1.8	2.73	19.9	0.22	33.4	29
ANY SPECIES	119750	10.9	19236	24.3	4.78	17.9	1.64	28.7	339
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TOTAL	**493504**		**79158**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=CHICKAMAUGA

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	1.02	0.43
	CHANNEL CATFISH	0.42	0.18
	FLATHEAD CATFISH	0.05	0.02
ANY SUNFISH			
	WARMOUTH	0.03	0.01
	BLUEGILL	10.82	4.40
	REDEAR SUNFISH	1.16	0.80
ANY BLACK BASS			
	SMALLMOUTH BASS	0.08	0.00
	SPOTTED BASS	0.31	0.00
	LARGEMOUTH BASS	1.06	0.06
ANY CRAPPIE			
	WHITE CRAPPIE	0.48	0.17
	BLACK CRAPPIE	1.61	0.67
	BLACKNOSE CRAPPIE	0.00	0.00

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=CHICKAMAUGA

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	1.06	25
02 FEBRUARY	14	1.93	3	2.76	34
03 MARCH	22	1.47	6	1.09	39
04 APRIL	0		0	1.20	82
05 MAY	3	0.71	1	0.92	55
06 JUNE	0		0	1.04	53
07 JULY	4	1.56	2	1.36	49
08 AUGUST	0		0	1.16	72
09 SEPTEMBER	7	1.16	3	1.11	54
10 OCTOBER	17	1.02	6	0.82	61
11 NOVEMBER	0		0	1.05	50
12 DECEMBER	19	1.52	5	1.11	24

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2008

LAKE=CHICKAMAUGA

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	362570	368270	730840	248
WHITE BASS	17100	12250	29350	8
STRIPED BASS	111520	102990	214510	49
ANY SUNFISH	850	1060	1920	2
ANY BLACK BASS	810110	863360	1673470	564
ANY CRAPPIE	145310	144300	289610	120
SAUGER	27960	15890	43850	28
ANY SPECIES	323970	344010	667980	265
TOTAL	**1799390**	**1852130**	**3651530**	**1284**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=CHICKAMAUGA

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	2556	94.9
OTHERS	138	5.1

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BRADLEY	351	13.7
HAMILTON	934	36.5
McMINN	221	8.6
MEIGS	185	7.2
RHEA	309	12.1
SEQUATCHIE	137	5.3
OTHERS IN TN	417	16.3
OUT-OF-STATE	8	0.3

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	1924	71.7
B) 26-100	732	27.3
C) 101-250	20	0.7
D) > 250	9	0.3

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	1369	99.9
B) VACATION	1	0.1

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	1362	99.3
B) 2-5	7	0.5
C) 6-10	1	0.1
F) >20	1	0.1

WATTS BAR RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=WATTS BAR

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	15326	47.8	0.4	2614	0.1	3.0
02 FEBRUARY	18148	35.6	0.5	3212	0.1	3.5
03 MARCH	54598	30.2	1.4	8912	0.2	10.6
04 APRIL	76992	35.1	2.0	12130	0.3	15.0
05 MAY	76753	36.8	2.0	11858	0.3	14.9
06 JUNE	95862	44.9	2.5	15551	0.4	18.6
07 JULY	57986	39.8	1.5	9465	0.2	11.3
08 AUGUST	33256	23.5	0.9	5387	0.1	6.5
09 SEPTEMBER	30187	21.9	0.8	5129	0.1	5.9
10 OCTOBER	25452	19.2	0.7	3597	0.1	4.9
11 NOVEMBER	16650	17.4	0.4	2625	0.1	3.2
12 DECEMBER	13566	51.8	0.3	2064	0.1	2.6
TOTAL	**514776**			**82544**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=WATTS BAR

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	41074	52.4	2.68	19.4	9196	68.5	0.60	44.0
02 FEBRUARY	46640	39.7	2.57	16.6	10344	58.9	0.57	44.3
03 MARCH	165978	39.9	3.04	24.9	30029	35.8	0.55	18.5
04 APRIL	204029	40.2	2.65	18.4	58514	52.0	0.76	36.1
05 MAY	207233	42.8	2.70	20.5	47587	50.8	0.62	32.8
06 JUNE	247324	46.9	2.58	12.3	58476	48.4	0.61	16.5
07 JULY	163521	44.3	2.82	18.1	42330	54.9	0.73	35.4
08 AUGUST	79814	38.4	2.40	29.6	12970	47.2	0.39	39.9
09 SEPTEMBER	62487	32.9	2.07	24.0	4830	51.2	0.16	46.6
10 OCTOBER	37414	23.2	1.47	12.6	8399	49.2	0.33	44.5
11 NOVEMBER	39294	30.5	2.36	24.7	11489	57.6	0.69	53.8
12 DECEMBER	31337	65.8	2.31	36.0	5291	81.0	0.39	55.0
TOTAL	**1326145**				**299455**			

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=WATTS BAR

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
SKIPJACK HERRING	967	1547.7	0.1	967	0		0.0	0	100.0		0
BLUE CATFISH	76800	33.7	5.8	69766	32294	38.8	10.8	31517	58.0	4.14	284
CHANNEL CATFISH	51811	46.9	3.9	48130	26929	49.4	9.0	25741	48.0	3.02	192
FLATHEAD CATFISH	8814	194.1	0.7	5244	1546	297.2	0.5	1340	82.5	5.33	15
WHITE BASS	323471	18.9	24.4	207567	114752	24.2	38.3	79774	64.5	1.28	912
YELLOW BASS	70918	41.8	5.3	30739	454	276.6	0.2	454	99.4	0.33	3
STRIPED BASS	25938	81.3	2.0	18675	5418	136.2	1.8	4842	79.1	17.50	47
CHEROKEE BASS	187	1715.1	0.0	187	187	1715.1	0.1	187	0.0	16.30	1
BLUEGILL	189472	24.9	14.3	121278	27051	42.4	9.0	17535	85.7	0.26	206
REDEAR SUNFISH	446	1081.8	0.0	446	289	1016.5	0.1	289	35.2	0.35	2
SMALLMOUTH BASS	36797	53.8	2.8	32468	1789	145.1	0.6	1789	95.1	3.69	15
SPOTTED BASS	58155	39.6	4.4	51420	1132	179.6	0.4	1132	98.1	1.64	7
LARGEMOUTH BASS	253243	18.2	19.1	231168	14954	34.7	5.0	13784	94.1	2.91	112
WHITE CRAPPIE	85065	50.6	6.4	79664	34802	47.9	11.6	32543	59.1	0.84	327
BLACK CRAPPIE	79619	37.2	6.0	71547	31594	43.8	10.6	29088	60.3	0.89	285
BLACKNOSE CRAPPIE	1380	453.4	0.1	1380	1269	454.2	0.4	1269	8.0	1.46	13
YELLOW PERCH	187	1715.1	0.0	0	187	1715.1	0.1	0	0.0	0.90	1
SAUGER	36319	50.8	2.7	31240	4577	78.8	1.5	3410	87.4	1.58	48
FRESHWATER DRUM	27141	75.7	2.0	6207	0		0.0	0	100.0		0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=WATTS BAR

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	58667	16.4	9430	11.4	1.32	30.8	0.65	34.5	92
WHITE BASS	18988	24.4	3044	3.7	5.12	31.5	1.90	27.4	30
STRIPED BASS	20108	21.9	3257	3.9	0.38	46.3	0.11	74.8	36
ANY BLACK BASS	245760	14.5	39275	47.7	0.92	11.9	0.06	46.5	415
SMALLMOUTH BASS	361	103.3	51	0.1	0.00		0.00		1
LARGEMOUTH BASS	251	158.5	38	0.0	1.75		0.00		1
ANY CRAPPIE	44716	19.7	7064	8.7	2.44	19.8	1.05	24.3	84
SAUGER	9236	30.6	1539	1.8	1.95	26.0	0.24	50.9	20
ANY SPECIES	116692	16.4	18846	22.7	3.26	22.6	1.01	39.5	193
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TOTAL	**514779**		**82544**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=WATTS BAR

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.75	0.35
	CHANNEL CATFISH	0.52	0.29
	FLATHEAD CATFISH	0.06	0.01
ANY BLACK BASS			
ANY BLACK BASS			
ANY BLACK BASS			
	ANY BLACK BASS	0.00	0.00
	SMALLMOUTH BASS	0.13	0.01
	SPOTTED BASS	0.21	0.00
	LARGEMOUTH BASS	0.94	0.06
ANY CRAPPIE			
	WHITE CRAPPIE	1.27	0.54
	BLACK CRAPPIE	1.14	0.49
	BLACKNOSE CRAPPIE	0.02	0.02

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=WATTS BAR

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	1.16	14
02 FEBRUARY	0		0	0.76	16
03 MARCH	0		0	0.90	38
04 APRIL	0		0	0.94	50
05 MAY	7	1.35	3	0.84	70
06 JUNE	27	1.06	7	0.99	42
07 JULY	33	0.90	6	1.05	28
08 AUGUST	0		0	0.66	40
09 SEPTEMBER	13	0.57	2	1.08	27
10 OCTOBER	4	1.08	1	0.75	38
11 NOVEMBER	0		0	0.57	23
12 DECEMBER	0		0	1.42	9

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS
FOR INTENDED SPECIES - 2008

LAKE=WATTS BAR

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	217910	187700	405610	84
WHITE BASS	79600	79240	158840	29
STRIPED BASS	140250	137020	277270	35
ANY BLACK BASS	1043930	1044650	2088570	380
SMALLMOUTH BASS	1450	640	2090	1
LARGEMOUTH BASS	1410	960	2370	1
ANY CRAPPIE	182250	144040	326290	78
SAUGER	39340	36200	75540	17
ANY SPECIES	323150	338400	661550	154
TOTAL	**2029290**	**1968850**	**3998130**	**779**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=WATTS BAR

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	1573	95.2
OTHERS	79	4.8

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
CUMBERLAND	91	5.8
HAMILTON	161	10.2
KNOX	192	12.2
LOUDON	162	10.3
McMINN	130	8.3
MEIGS	84	5.3
RHEA	136	8.7
ROANE	361	23.0
OTHERS IN TN	254	16.2

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	1037	63.4
B) 26-100	527	32.2
C) 101-250	15	0.9
D) > 250	57	3.5

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	821	99.9
B) VACATION	1	0.1

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	796	96.8
B) 2-5	23	2.8
C) 6-10	3	0.4

DALE HOLLOW RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=DALE HOLLOW

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	20926	22.8	0.9	3444	0.1	6.2
02 FEBRUARY	22957	29.9	1.0	3488	0.2	6.8
03 MARCH	29609	26.2	1.3	3937	0.2	8.8
04 APRIL	69564	19.3	3.0	9770	0.4	20.7
05 MAY	61584	22.2	2.7	9019	0.4	18.4
06 JUNE	20002	26.9	0.9	3618	0.2	6.0
07 JULY	15842	24.3	0.7	3439	0.1	4.7
08 AUGUST	16081	18.6	0.7	3169	0.1	4.8
09 SEPTEMBER	19169	12.7	0.8	3216	0.1	5.7
10 OCTOBER	31688	15.3	1.4	5248	0.2	9.4
11 NOVEMBER	22482	26.2	1.0	3405	0.1	6.7
12 DECEMBER	5503	28.1	0.2	997	0.0	1.6
TOTAL	**335407**			**52750**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=DALE HOLLOW

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	8580	29.6	0.41	18.6	1046	50.5	0.05	42.4
02 FEBRUARY	6198	36.0	0.27	19.0	689	65.9	0.03	48.3
03 MARCH	9475	33.1	0.32	19.3	1480	65.9	0.05	57.5
04 APRIL	36869	29.9	0.53	22.5	18782	35.9	0.27	30.2
05 MAY	49267	29.3	0.80	18.7	20323	32.4	0.33	22.8
06 JUNE	14201	36.5	0.71	23.9	6201	42.1	0.31	31.0
07 JULY	5545	43.3	0.35	35.1	1584	48.1	0.10	40.8
08 AUGUST	8362	40.4	0.52	35.2	3538	57.9	0.22	53.7
09 SEPTEMBER	10543	23.4	0.55	19.4	5176	34.5	0.27	31.6
10 OCTOBER	16795	24.0	0.53	18.2	6654	31.1	0.21	26.7
11 NOVEMBER	10791	33.4	0.48	20.2	2923	32.4	0.13	18.8
12 DECEMBER	2311	65.1	0.42	56.5	55	107.4	0.01	100.0
TOTAL	**178937**				**68451**			

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=DALE HOLLOW

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
ALEWIFE	623	317.8	0.3	0	249	345.9	0.4	0	60.0	0.98	4
CHANNEL CATFISH	6576	67.8	3.7	5556	6404	68.5	9.4	5554	2.6	4.86	113
FLATHEAD CATFISH	391	478.3	0.2	107	391	478.3	0.6	107	0.0	2.19	11
MUSKELLUNGE	78	840.8	0.0	78	34	611.2	0.0	34	56.4	24.00	1
RAINBOW TROUT	568	572.3	0.3	413	506	630.8	0.7	450	10.9	0.46	9
WHITE BASS	961	378.7	0.5	0	247	534.2	0.4	0	74.3	2.50	8
BLUEGILL	41028	19.3	22.9	37429	24600	24.9	35.9	22105	40.0	0.41	493
REDEAR SUNFISH	13090	44.4	7.3	12440	10541	47.8	15.4	9910	19.5	0.61	215
COOSA BASS	73	1059.8	0.0	0	0		0.0	0	100.0		0
SMALLMOUTH BASS	66464	13.2	37.1	58706	3944	28.9	5.8	3644	94.1	2.72	79
SPOTTED BASS	5531	56.5	3.1	4005	2976	74.6	4.3	2267	46.2	1.42	63
LARGEMOUTH BASS	11695	33.3	6.5	9356	2681	56.4	3.9	2276	77.1	2.70	53
BLACK CRAPPIE	7529	82.2	4.2	7320	3257	73.0	4.8	3060	56.7	1.00	66
BLACKNOSE CRAPPIE	9871	40.4	5.5	9614	4448	54.7	6.5	4243	54.9	1.27	87
WALLEYE	12089	34.4	6.8	11254	8177	47.0	11.9	7570	32.4	3.65	175
FRESHWATER DRUM	310	558.0	0.2	0	0		0.0	0	100.0		0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=DALE HOLLOW

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	4306	31.3	648	1.3	0.59	54.1	0.59	54.1	14
MUSKELLUNGE	887	61.5	134	0.3	0.12		0.08		4
RAINBOW TROUT	163	148.2	23	0.0	7.00		7.00		1
ANY TROUT	2129	35.7	418	0.6	0.02	176.1	0.02	176.1	7
ANY SUNFISH	21051	16.4	3354	6.3	2.94	23.4	1.97	25.3	65
ANY BLACK BASS	69658	9.8	10773	20.8	0.33	22.2	0.10	42.6	260
SMALLMOUTH BASS	144566	9.1	21843	43.1	0.33	17.6	0.02	62.6	463
LARGEMOUTH BASS	2736	37.5	396	0.8	0.35	60.5	0.06	94.4	10
ANY CRAPPIE	32267	12.3	4970	9.6	0.89	36.9	0.33	42.6	107
WALLEYE	34411	13.0	6209	10.3	0.32	28.3	0.23	30.6	141
ANY SPECIES	23231	13.3	3978	6.9	0.10	85.7	0.05	167.3	67
TOTAL	**335405**		**52746**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=DALE HOLLOW

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	CHANNEL CATFISH	0.58	0.58
	FLATHEAD CATFISH	0.01	0.01
ANY TROUT			
	RAINBOW TROUT	0.02	0.02
	ANY TROUT	0.00	0.00
ANY SUNFISH			
	BLUEGILL	2.21	1.36
	REDEAR SUNFISH	0.73	0.61
ANY BLACK BASS			
ANY BLACK BASS			
ANY BLACK BASS			
	COOSA BASS	0.00	0.00
	SMALLMOUTH BASS	0.27	0.02
	SPOTTED BASS	0.02	0.01
	LARGEMOUTH BASS	0.04	0.01
ANY CRAPPIE			
	ANY CRAPPIE	0.00	0.00
	BLACK CRAPPIE	0.38	0.14
	BLACKNOSE CRAPPIE	0.51	0.19

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=DALE HOLLOW

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.52	47
02 FEBRUARY	4	0.09	3	0.28	90
03 MARCH	0	0.00	1	0.32	94
04 APRIL	7	0.31	13	0.28	132
05 MAY	9	0.61	11	0.42	83
06 JUNE	2	0.45	3	0.42	22
07 JULY	0		0	0.22	11
08 AUGUST	0		0	0.20	29
09 SEPTEMBER	15	0.13	5	0.24	47
10 OCTOBER	43	0.31	18	0.25	53
11 NOVEMBER	6	0.73	3	0.23	51
12 DECEMBER	0		0	0.31	13

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2008

LAKE=DALE HOLLOW

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	14280	8500	22780	14
MUSKELLUNGE	8630	3490	12120	4
RAINBOW TROUT	110			1
ANY TROUT	19090	6150	25240	7
ANY SUNFISH	64550	38370	102920	65
ANY BLACK BASS	478010	273000	751010	259
SMALLMOUTH BASS	966990	524680	1491670	463
LARGEMOUTH BASS	13880	10520	24400	10
ANY CRAPPIE	109480	73720	183200	107
WALLEYE	126970	81970	208930	141
ANY SPECIES	79370	52380	131760	66
TOTAL	**1881360**	**1072780**	**2954030**	**1137**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=DALE HOLLOW

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
IN	212	8.6
KY	588	23.8
OH	406	16.4
TN	1095	44.3
OTHERS	171	6.9

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
CLAY	237	21.7
DAVIDSON	81	7.4
OVERTON	193	17.7
PICKETT	167	15.3
PUTNAM	92	8.4
OTHERS IN TN	322	29.5

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	728	29.4
B) 26-100	396	16.0
C) 101-250	502	20.3
D) > 250	846	34.2

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	1064	89.2
B) VACATION	128	10.7
D) OTHER	1	0.1

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	608	51.0
B) 2-5	322	27.0
C) 6-10	244	20.5
D) 11-15	14	1.2
E) 16-20	2	0.2
F) >20	3	0.3

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REGION IV

NORRIS

RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=NORRIS

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	21881	26.0	0.6	4512	0.1	6.3
02 FEBRUARY	16745	34.9	0.5	2579	0.1	4.8
03 MARCH	59152	61.7	1.7	9231	0.3	17.1
04 APRIL	20461	33.1	0.6	4926	0.1	5.9
05 MAY	32701	17.1	1.0	6579	0.2	9.4
06 JUNE	43067	11.8	1.3	8512	0.2	12.4
07 JULY	45631	17.6	1.3	9509	0.3	13.2
08 AUGUST	36211	21.8	1.1	7200	0.2	10.5
09 SEPTEMBER	17263	22.1	0.5	3611	0.1	5.0
10 OCTOBER	28462	20.0	0.8	5399	0.2	8.2
11 NOVEMBER	18539	27.6	0.5	3273	0.1	5.4
12 DECEMBER	6217	41.0	0.2	1216	0.0	1.8
TOTAL	**346330**			**66547**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=NORRIS

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	13347	34.0	0.61	21.3	656	65.9	0.03	57.6
02 FEBRUARY	7368	50.6	0.44	34.7	1842	50.8	0.11	35.4
03 MARCH	122445	89.8	2.07	55.6	5915	91.7	0.10	57.1
04 APRIL	17801	45.7	0.87	29.9	6138	74.1	0.30	63.8
05 MAY	27796	56.6	0.85	52.9	8502	84.8	0.26	81.8
06 JUNE	54695	25.8	1.27	22.8	21103	30.9	0.49	28.6
07 JULY	26010	25.9	0.57	18.9	5476	35.6	0.12	30.8
08 AUGUST	17743	41.8	0.49	35.2	6156	89.6	0.17	86.2
09 SEPTEMBER	14674	46.8	0.85	40.2	1726	80.4	0.10	77.8
10 OCTOBER	19639	26.9	0.69	17.7	5123	54.3	0.18	48.9
11 NOVEMBER	25955	58.4	1.40	49.8	2966	58.6	0.16	49.2
12 DECEMBER	3606	75.2	0.58	58.2	684	117.8	0.11	100.0
TOTAL	**351079**				**66287**			

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=NORRIS

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CARP	126	1314.4	0.0	126	0		0.0	0	100.0		0
CHANNEL CATFISH	6981	201.1	2.0	551	2445	139.8	3.7	0	65.0	1.44	11
FLATHEAD CATFISH	989	338.8	0.3	330	445	299.8	0.7	148	55.0	7.08	3
WHITE BASS	382	464.6	0.1	0	256	520.9	0.4	0	33.0	1.58	2
STRIPED BASS	13367	109.7	3.8	12019	3249	102.1	4.9	3249	75.7	10.23	9
ROCK BASS	1428	248.0	0.4	0	0		0.0	0	100.0		0
GREEN SUNFISH	119	1387.6	0.0	119	119	1387.6	0.2	119	0.0	0.10	1
WARMOUTH	116	1770.6	0.0	0	0		0.0	0	100.0		0
BLUEGILL	76123	24.8	21.7	63106	29077	28.6	43.9	28515	61.8	0.25	199
REDEAR SUNFISH	3724	144.1	1.1	2578	3260	154.7	4.9	2223	12.5	0.75	22
COOSA BASS	177	906.3	0.1	177	0		0.0	0	100.0		0
SMALLMOUTH BASS	102625	56.9	29.2	89446	3360	71.5	5.1	2520	96.7	2.79	12
SPOTTED BASS	41221	55.9	11.7	28239	3856	63.7	5.8	2057	90.6	0.82	30
LARGEMOUTH BASS	48963	57.4	14.0	39858	1411	100.7	2.1	627	97.1	3.07	9
WHITE CRAPPIE	16060	129.1	4.6	12905	2873	142.9	4.3	1975	82.1	0.88	16
BLACK CRAPPIE	28319	92.1	8.1	25674	10905	63.8	16.4	9489	61.5	0.83	77
BLACKNOSE CRAPPIE	2271	778.4	0.6	2065	770	274.0	1.2	674	66.1	0.86	8
SAUGER	854	114.4	0.2	0	150	162.2	0.2	0	82.4	1.11	4
WALLEYE	5050	100.7	1.4	4777	4116	102.4	6.2	3974	18.5	2.29	28
FRESHWATER DRUM	1995	897.4	0.6	0	0		0.0	0	100.0		0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=NORRIS

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	345	141.6	68	0.1	0.00		0.00		1
STRIPED BASS	33232	18.0	6659	9.6	0.26	75.9	0.04	151.9	49
ANY SUNFISH	25006	17.5	4997	7.2	2.24	24.1	1.17	27.6	32
ANY BLACK BASS	124831	18.1	23313	36.0	0.42	23.0	0.01	156.8	179
SMALLMOUTH BASS	32140	27.0	6052	9.3	0.72	42.2	0.02	188.0	58
SPOTTED BASS	2687	89.2	456	0.8	0.38		0.28		3
LARGEMOUTH BASS	2244	60.0	438	0.6	0.10	172.8	0.00		5
ANY CRAPPIE	23948	34.2	4293	6.9	0.92	45.1	0.36	39.9	38
WALLEYE	40665	15.5	8049	11.7	0.08	59.8	0.07	70.7	63
ANY SPECIES	61229	12.7	12221	17.7	0.62	53.2	0.09	85.6	71
TOTAL	**346327**		**66546**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=NORRIS

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	CHANNEL CATFISH	0.00	0.00
	FLATHEAD CATFISH	0.00	0.00
ANY SUNFISH			
	GREEN SUNFISH	0.00	0.00
	WARMOUTH	0.00	0.00
	BLUEGILL	2.15	1.08
	REDEAR SUNFISH	0.09	0.08
ANY BLACK BASS			
ANY BLACK BASS			
ANY BLACK BASS			
ANY BLACK BASS			
	COOSA BASS	0.00	0.00
	SMALLMOUTH BASS	0.55	0.02
	SPOTTED BASS	0.17	0.01
	LARGEMOUTH BASS	0.25	0.00
ANY CRAPPIE			
	WHITE CRAPPIE	0.29	0.06
	BLACK CRAPPIE	0.58	0.28
	BLACKNOSE CRAPPIE	0.05	0.02

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=NORRIS

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	32	0.53	9	0.47	35
02 FEBRUARY	52	0.27	9	0.21	14
03 MARCH	16	0.82	5	0.39	20
04 APRIL	0		0	0.90	13
05 MAY	13	1.63	5	0.82	7
06 JUNE	5	0.00	3	0.29	14
07 JULY	10	0.13	4	0.54	17
08 AUGUST	0		0	0.23	12
09 SEPTEMBER	0		0	0.75	10
10 OCTOBER	53	0.52	8	0.38	21
11 NOVEMBER	37	0.49	8	0.44	24
12 DECEMBER	56	0.33	2	0.16	4

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS
FOR INTENDED SPECIES - 2008

LAKE=NORRIS

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
STRIPED BASS	293220	162590	445680	19
ANY SUNFISH	70350	38670	104680	20
ANY BLACK BASS	997680	528450	1526130	109
SMALLMOUTH BASS	183790	137280	321070	20
SPOTTED BASS	1340	4480	5830	1
LARGEMOUTH BASS	4090	1020	5110	1
ANY CRAPPIE	69870	112120	177860	15
WALLEYE	200580	174400	374980	30
ANY SPECIES	198640	286100	484740	40
TOTAL	**2019560**	**1445110**	**3446080**	**255**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=NORRIS

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
KY	92	10.1
TN	762	84.0
OTHERS	53	5.8

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
ANDERSON	173	22.8
CAMPBELL	97	12.8
CLAIBORNE	227	29.9
KNOX	107	14.1
UNION	82	10.8
OTHERS IN TN	72	9.5
OUT-OF-STATE	2	0.3

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	663	73.3
B) 26-100	179	19.8
C) 101-250	19	2.1
D) > 250	44	4.9

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	495	99.2
B) VACATION	3	0.6
D) OTHER	1	0.2

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	450	90.4
B) 2-5	35	7.0
C) 6-10	11	2.2
D) 11-15	1	0.2
F) >20	1	0.2

CHEROKEE

RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=CHEROKEE

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	10044	35.2	0.3	2127	0.1	2.5
02 FEBRUARY	20589	42.7	0.7	3972	0.1	5.1
03 MARCH	22252	13.6	0.7	4379	0.1	5.5
04 APRIL	69959	28.4	2.3	13079	0.4	17.2
05 MAY	45132	14.3	1.5	7667	0.3	11.1
06 JUNE	46968	15.1	1.6	9561	0.3	11.5
07 JULY	68540	25.9	2.3	13276	0.4	16.8
08 AUGUST	49408	39.9	1.6	10640	0.4	12.1
09 SEPTEMBER	20138	12.5	0.7	3890	0.1	4.9
10 OCTOBER	29841	18.3	1.0	5091	0.2	7.3
11 NOVEMBER	17864	25.9	0.6	3290	0.1	4.4
12 DECEMBER	6940	24.4	0.2	1492	0.0	1.7
TOTAL	**407675**			**78464**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=CHEROKEE

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	8035	41.7	0.80	21.1	1908	65.7	0.19	53.6
02 FEBRUARY	12353	48.9	0.60	21.8	2265	55.0	0.11	31.2
03 MARCH	18692	20.8	0.84	15.5	3560	43.6	0.16	41.4
04 APRIL	58766	32.1	0.84	14.4	16790	40.2	0.24	27.8
05 MAY	40167	19.1	0.89	12.6	9478	25.4	0.21	20.8
06 JUNE	41332	18.2	0.88	9.9	10333	23.8	0.22	17.9
07 JULY	55517	27.6	0.81	9.2	12337	33.9	0.18	21.6
08 AUGUST	34092	41.6	0.69	10.8	7411	48.8	0.15	25.4
09 SEPTEMBER	20742	15.9	1.03	9.8	5639	28.0	0.28	24.7
10 OCTOBER	33422	21.4	1.12	10.9	8057	28.5	0.27	21.7
11 NOVEMBER	17507	28.5	0.98	11.6	2501	37.9	0.14	27.2
12 DECEMBER	7079	32.4	1.02	20.6	1249	56.0	0.18	48.2
TOTAL	**347704**				**81528**			

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=CHEROKEE

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
LONGNOSE GAR	66	2630.2	0.0	0	0		0.0	0	100.0		0
CARP	158	1422.9	0.0	0	0		0.0	0	100.0		0
BLACK BULLHEAD	215	714.1	0.1	215	215	714.1	0.3	215	0.0	2.21	4
BLUE CATFISH	477	638.5	0.1	0	94	541.9	0.1	0	80.3	7.40	3
CHANNEL CATFISH	29558	21.3	8.5	23807	16514	22.2	20.3	13695	44.1	1.57	287
FLATHEAD CATFISH	1739	155.2	0.5	1739	1424	161.1	1.7	1424	18.1	3.19	27
WHITE BASS	5383	92.9	1.5	266	999	141.2	1.2	250	81.4	2.89	16
STRIPED BASS	9936	46.2	2.9	3159	2384	54.6	2.9	1265	76.0	8.51	49
CHEROKEE BASS	41298	17.2	11.9	28619	12236	21.4	15.0	9574	70.4	6.63	236
BLUEGILL	27242	30.1	7.8	5271	12837	30.7	15.7	1834	52.9	0.26	217
SMALLMOUTH BASS	15594	38.1	4.5	276	192	203.2	0.2	0	98.8	1.74	5
SPOTTED BASS	9873	53.7	2.8	0	790	101.7	1.0	0	92.0	1.18	20
LARGEMOUTH BASS	132930	9.5	38.2	124971	2267	29.4	2.8	1873	98.3	2.34	46
WHITE CRAPPIE	2892	161.7	0.8	2682	1443	152.1	1.8	1443	50.1	0.64	28
BLACK CRAPPIE	62064	15.5	17.8	60057	27601	18.6	33.9	27107	55.5	0.77	559
BLACKNOSE CRAPPIE	1187	200.7	0.3	1187	1021	208.4	1.3	1021	14.0	1.02	23
SAUGER	164	1549.5	0.0	0	0		0.0	0	100.0		0
WALLEYE	2549	165.0	0.7	623	279	207.1	0.3	140	89.1	2.41	6
FRESHWATER DRUM	4365	118.2	1.3	739	1237	137.1	1.5	471	71.7	2.11	21

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=CHEROKEE

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	39978	16.3	8008	9.8	0.64	22.9	0.41	25.1	86
WHITE BASS	895	73.1	168	0.2	0.47		0.47		2
STRIPED BASS	23301	15.3	4427	5.7	0.11	41.9	0.05	53.5	66
CHEROKEE BASS	44202	14.1	8513	10.8	0.61	15.2	0.21	18.7	117
ANY SUNFISH	4361	38.1	857	1.1	1.86	16.1	0.75	24.0	9
ANY BLACK BASS	702	89.0	136	0.2	0.63		0.42		1
SMALLMOUTH BASS	610	57.6	118	0.1	0.29		0.00		4
LARGEMOUTH BASS	188140	9.4	36086	46.1	0.62	7.4	0.01	107.6	696
ANY CRAPPIE	83486	11.8	15851	20.5	1.17	13.6	0.52	16.6	289
WALLEYE	3390	38.4	686	0.8	0.27	58.7	0.07	109.6	7
ANY SPECIES	18608	17.6	3611	4.6	0.55	36.0	0.25	35.9	37
TOTAL	**407673**		**78461**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=CHEROKEE

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	BLACK BULLHEAD	0.01	0.01
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.00	0.00
	CHANNEL CATFISH	0.59	0.37
	FLATHEAD CATFISH	0.04	0.04
ANY SUNFISH			
	BLUEGILL	1.86	0.75
ANY BLACK BASS			
ANY BLACK BASS			
ANY BLACK BASS			
	ANY BLACK BASS	0.00	0.00
	SMALLMOUTH BASS	0.00	0.00
	SPOTTED BASS	0.00	0.00
	LARGEMOUTH BASS	0.66	0.01
ANY CRAPPIE			
	ANY CRAPPIE	0.00	0.00
	WHITE CRAPPIE	0.05	0.03
	BLACK CRAPPIE	1.10	0.48
	BLACKNOSE CRAPPIE	0.02	0.02

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=CHEROKEE

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	10	1.93	2	0.67	30
02 FEBRUARY	1	0.83	1	0.50	41
03 MARCH	44	0.71	21	0.58	49
04 APRIL	34	0.41	17	0.51	61
05 MAY	27	0.63	11	0.65	68
06 JUNE	13	0.83	5	0.71	44
07 JULY	2	0.79	3	0.60	72
08 AUGUST	21	0.59	11	0.48	49
09 SEPTEMBER	8	0.97	4	0.72	60
10 OCTOBER	14	0.83	10	0.67	67
11 NOVEMBER	19	0.76	6	0.87	44
12 DECEMBER	0		0	0.61	22

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2008

LAKE=CHEROKEE

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	24060	52420	76480	81
WHITE BASS	1060	970	2030	2
STRIPED BASS	73040	72600	145640	66
CHEROKEE BASS	114290	132230	246510	115
ANY SUNFISH	3170	3850	7030	7
ANY BLACK BASS	0	1810	1810	1
SMALLMOUTH BASS	1920	1960	3870	4
LARGEMOUTH BASS	707520	792150	1499660	659
ANY CRAPPIE	35160	157850	193010	279
WALLEYE	0	7600	7600	7
ANY SPECIES	12250	20460	32320	30
TOTAL	**972470**	**1243900**	**2215960**	**1251**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=CHEROKEE

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
KY	343	13.1
TN	1966	75.3
VA	198	7.6
OTHERS	104	4.0

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
GRAINGER	343	17.5
HAMBLEN	508	26.0
HAWKINS	484	24.7
SULLIVAN	210	10.7
OTHERS IN TN	412	21.1

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	1501	57.6
B) 26-100	1011	38.8
C) 101-250	90	3.5
D) > 250	6	0.2

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	1310	98.5
B) VACATION	20	1.5

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	1252	94.1
B) 2-5	77	5.8
C) 6-10	1	0.1

MELTON HILL RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=MELTON HILL

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	2716	21.0	0.5	624	0.1	3.1
02 FEBRUARY	2430	63.1	0.4	448	0.1	2.8
03 MARCH	7622	5.8	1.3	1606	0.3	8.7
04 APRIL	16472	15.5	2.9	3940	0.7	18.7
05 MAY	12520	9.5	2.2	3345	0.6	14.2
06 JUNE	12682	10.9	2.2	3357	0.6	14.4
07 JULY	9782	6.5	1.7	2448	0.4	11.1
08 AUGUST	9034	18.3	1.6	2500	0.4	10.3
09 SEPTEMBER	5546	22.0	1.0	1601	0.3	6.3
10 OCTOBER	5545	17.8	1.0	1556	0.3	6.3
11 NOVEMBER	1821	39.3	0.3	528	0.1	2.1
12 DECEMBER	1744	32.5	0.3	506	0.1	2.0
TOTAL	**87914**			**22459**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=MELTON HILL

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	2173	33.0	0.80	24.9	109	73.3	0.04	72.0
02 FEBRUARY	1288	64.1	0.53	9.4	510	63.2	0.21	2.8
03 MARCH	6631	31.1	0.87	30.6	1143	63.8	0.15	65.6
04 APRIL	17131	22.6	1.04	16.3	2306	28.3	0.14	23.4
05 MAY	7762	21.7	0.62	19.4	125	73.1	0.01	72.3
06 JUNE	12682	19.0	1.00	15.5	1395	52.4	0.11	52.0
07 JULY	7043	23.2	0.72	22.3	196	64.3	0.02	64.8
08 AUGUST	4698	36.6	0.52	31.3	452	60.4	0.05	58.9
09 SEPTEMBER	2496	36.0	0.45	28.1	55	87.4	0.01	70.8
10 OCTOBER	1386	37.0	0.25	31.6	0		0.00	100.0
11 NOVEMBER	2404	97.9	1.32	83.4	601	115.4	0.33	100.0
12 DECEMBER	366	81.2	0.21	70.8	35	90.6	0.02	100.0
TOTAL	**66060**				**6927**			

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=MELTON HILL

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
ANY GAR	99	895.0	0.1	0	0		0.0	0	100.0		0
GIZZARD SHAD	33	399.4	0.0	33	0		0.0	0	100.0		0
CARP	305	499.1	0.5	203	0		0.0	0	100.0		0
ANY CARPSUCKER	112	797.3	0.2	112	0		0.0	0	100.0		0
CHANNEL CATFISH	50	1256.9	0.1	50	0		0.0	0	100.0		0
MUSKELLUNGE	322	502.1	0.5	184	0		0.0	0	100.0		0
RAINBOW TROUT	603	230.4	0.9	603	267	168.3	3.9	267	55.7	0.94	8
WHITE BASS	1090	221.8	1.6	694	0		0.0	0	100.0		0
STRIPED BASS	1778	113.1	2.7	1046	0		0.0	0	100.0		0
WARMOUTH	80	621.0	0.1	0	28	157.5	0.4	0	65.0	0.65	1
BLUEGILL	11748	30.2	17.8	10216	1200	46.3	17.3	1138	89.8	0.58	39
SMALLMOUTH BASS	4828	47.9	7.3	4589	0		0.0	0	100.0		0
SPOTTED BASS	867	229.8	1.3	867	0		0.0	0	100.0		0
LARGEMOUTH BASS	27365	13.1	41.4	25780	1358	32.2	19.6	1276	95.0	2.29	33
WHITE CRAPPIE	12457	29.2	18.8	12366	3693	30.1	53.3	3693	70.4	0.83	100
BLACK CRAPPIE	361	242.4	0.5	289	313	144.1	4.5	313	13.3	1.13	4
YELLOW PERCH	871	179.1	1.3	871	0		0.0	0	100.0		0
FRESHWATER DRUM	1107	170.1	1.7	604	0		0.0	0	100.0		0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=MELTON HILL

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	1703	33.9	466	1.9	0.10	0.0	0.00		9
MUSKELLUNGE	2175	24.4	500	2.5	0.03	120.9	0.00		16
RAINBOW TROUT	725	52.1	176	0.8	0.73	6.0	0.41	18.6	3
STRIPED BASS	6545	16.3	1688	7.4	0.06	88.5	0.00		42
ANY SUNFISH	2295	28.7	613	2.6	1.73	15.8	0.64	53.4	10
ANY BLACK BASS	36214	7.4	9270	41.2	0.88	22.7	0.04	64.2	230
ANY CRAPPIE	14091	12.2	3489	16.0	0.73	27.7	0.28	43.2	94
WALLEYE	161	103.8	46	0.2	0.00		0.00		1
ANY SPECIES	24005	8.6	6210	27.3	0.72	49.4	0.01	168.0	123
TOTAL	**87914**		**22458**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=MELTON HILL

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY CATFISH	0.00	0.00
	CHANNEL CATFISH	0.10	0.00
ANY SUNFISH			
	WARMOUTH	0.00	0.00
	BLUEGILL	1.73	0.64
ANY BLACK BASS			
	SMALLMOUTH BASS	0.13	0.00
	SPOTTED BASS	0.02	0.00
	LARGEMOUTH BASS	0.71	0.04
ANY CRAPPIE			
	WHITE CRAPPIE	0.71	0.26
	BLACK CRAPPIE	0.02	0.02

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=MELTON HILL

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.63	7
02 FEBRUARY	33	0.11	1	1.32	5
03 MARCH	37	1.60	6	0.45	14
04 APRIL	30	1.22	8	1.36	27
05 MAY	1	0.00	1	0.78	24
06 JUNE	35	1.79	30	0.87	19
07 JULY	20	0.87	10	0.77	18
08 AUGUST	15	0.96	4	0.25	19
09 SEPTEMBER	0		0	0.37	15
10 OCTOBER	3	0.00	1	0.57	13
11 NOVEMBER	0		0	0.54	3
12 DECEMBER	0		0	1.04	5

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2008

LAKE=MELTON HILL

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	4740	1200	5940	9
MUSKELLUNGE	16530	23170	39700	16
RAINBOW TROUT	3300	1030	4320	3
STRIPED BASS	50480	35180	85660	42
ANY SUNFISH	10710	6090	16800	10
ANY BLACK BASS	196560	133910	330470	230
ANY CRAPPIE	47290	21840	69130	94
WALLEYE	460	0	460	1
ANY SPECIES	52120	17440	69560	123
TOTAL	**382190**	**239860**	**622040**	**528**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=MELTON HILL

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	951	98.4
OTHERS	15	1.6

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
ANDERSON	409	43.0
KNOX	390	41.0
LOUDON	58	6.1
OTHERS IN TN	94	9.9

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	928	96.1
B) 26-100	20	2.1
C) 101-250	17	1.8
D) > 250	1	0.1

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	526	99.4
B) VACATION	3	0.6

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	519	98.1
B) 2-5	9	1.7
C) 6-10	1	0.2

FORT LOUDON RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=FT. LOUDOUN

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	6278	36.3	0.4	1683	0.1	3.2
02 FEBRUARY	5701	16.4	0.4	935	0.1	2.9
03 MARCH	17609	15.1	1.2	3533	0.2	8.9
04 APRIL	27571	15.5	1.9	5280	0.4	13.9
05 MAY	24033	17.6	1.6	4921	0.3	12.2
06 JUNE	28825	5.7	2.0	6067	0.4	14.6
07 JULY	21771	34.6	1.5	4910	0.3	11.0
08 AUGUST	23151	24.0	1.6	5646	0.4	11.7
09 SEPTEMBER	14072	12.8	1.0	3244	0.2	7.1
10 OCTOBER	14151	20.1	1.0	3216	0.2	7.2
11 NOVEMBER	4988	22.6	0.3	1692	0.1	2.5
12 DECEMBER	9552	31.9	0.7	2279	0.2	4.8
TOTAL	**197702**			**43406**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=FT. LOUDOUN

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	4960	59.9	0.79	44.8	1130	51.0	0.18	33.0
02 FEBRUARY	4048	19.5	0.71	10.3	513	32.1	0.09	26.1
03 MARCH	24300	24.5	1.38	19.1	4226	70.5	0.24	68.5
04 APRIL	41081	19.5	1.49	11.7	9926	36.3	0.36	32.5
05 MAY	34848	21.1	1.45	11.4	4086	53.5	0.17	48.6
06 JUNE	31419	18.6	1.09	17.6	4036	35.1	0.14	34.3
07 JULY	23513	45.6	1.08	28.0	2177	36.6	0.10	11.0
08 AUGUST	22688	25.0	0.98	7.1	2778	43.6	0.12	36.0
09 SEPTEMBER	18012	18.4	1.28	13.2	3377	41.2	0.24	39.6
10 OCTOBER	33255	33.0	2.35	25.7	6509	46.2	0.46	40.6
11 NOVEMBER	4240	38.0	0.85	29.8	499	79.5	0.10	70.8
12 DECEMBER	8597	38.3	0.90	20.2	2579	48.6	0.27	34.7
TOTAL	**250961**				**41836**			

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=FT. LOUDOUN

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CARP	287	975.0	0.1	0	0		0.0	0	100.0		0
ANY BULLHEAD	490	773.0	0.2	490	0		0.0	0	100.0		0
BLUE CATFISH	80	1382.1	0.0	80	0		0.0	0	100.0		0
CHANNEL CATFISH	80	1382.1	0.0	80	0		0.0	0	100.0		0
WHITE BASS	2511	243.5	1.0	732	159	259.1	0.4	0	93.7	0.85	2
STRIPED BASS	7149	111.2	2.9	1493	95	411.6	0.2	0	98.7	2.85	2
CHEROKEE BASS	203	1018.6	0.1	203	0		0.0	0	100.0		0
ORANGE SPOTTED SUNFISH	557	517.0	0.2	0	0		0.0	0	100.0		0
BLUEGILL	28437	31.1	11.3	18088	4829	31.9	11.5	1916	83.0	0.67	63
SMALLMOUTH BASS	16377	40.7	6.5	16117	95	282.4	0.2	95	99.4	3.75	2
SPOTTED BASS	1856	260.1	0.7	1856	0		0.0	0	100.0		0
LARGEMOUTH BASS	100039	11.8	39.9	98409	3541	26.9	8.5	3541	96.5	2.44	51
WHITE CRAPPIE	68082	15.6	27.2	66670	24896	19.6	59.5	24254	63.4	0.90	349
BLACK CRAPPIE	10338	44.0	4.1	9678	6153	45.3	14.7	5876	40.5	1.13	87
YELLOW PERCH	69	2155.5	0.0	0	0		0.0	0	100.0		0
FRESHWATER DRUM	1141	329.9	0.5	527	0		0.0	0	100.0		0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=FT. LOUDOUN

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	9449	21.1	2246	4.8	0.43	46.4	0.09	64.7	24
STRIPED BASS	1926	61.5	443	1.0	0.86		0.00		3
ANY SUNFISH	5052	32.0	1125	2.6	1.66	58.5	0.42	103.7	14
ANY BLACK BASS	94694	8.0	20810	47.9	0.97	15.7	0.04	63.4	322
SMALLMOUTH BASS	536	80.7	119	0.3	0.25		0.00		2
ANY CRAPPIE	53849	9.2	11608	27.2	1.42	18.9	0.61	26.2	187
SAUGER	963	56.9	218	0.5	0.00		0.00		4
ANY SPECIES	31102	11.7	6812	15.7	0.74	34.6	0.07	111.5	75
OTHER	131	137.3	25	0.1	0.00		0.00		1
TOTAL	**197702**		**43406**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=FT. LOUDOUN

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY BULLHEAD	0.32	0.00
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.05	0.00
	CHANNEL CATFISH	0.05	0.00
ANY SUNFISH			
	ORANGE SPOTTED SUNFISH	0.00	0.00
	BLUEGILL	1.66	0.42
ANY BLACK BASS			
ANY BLACK BASS			
	SMALLMOUTH BASS	0.17	0.00
	SPOTTED BASS	0.02	0.00
	LARGEMOUTH BASS	1.03	0.04
ANY CRAPPIE			
	WHITE CRAPPIE	1.24	0.49
	BLACK CRAPPIE	0.18	0.12

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=FT. LOUDOUN

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.32	8
02 FEBRUARY	22	1.28	2	0.75	12
03 MARCH	32	0.88	3	1.34	21
04 APRIL	34	1.30	12	1.01	32
05 MAY	6	1.58	5	1.15	40
06 JUNE	13	1.41	9	0.89	50
07 JULY	50	0.95	10	0.90	9
08 AUGUST	23	0.88	7	0.89	39
09 SEPTEMBER	0		0	0.80	26
10 OCTOBER	0		0	1.07	19
11 NOVEMBER	0		0	0.75	8
12 DECEMBER	0		0	0.82	11

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS
FOR INTENDED SPECIES - 2008

LAKE=FT. LOUDOUN

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	38700	10580	49280	24
STRIPED BASS	20780	760	21540	3
ANY SUNFISH	14020	8920	22940	14
ANY BLACK BASS	487630	314860	802490	322
SMALLMOUTH BASS	2840	500	3340	2
ANY CRAPPIE	164360	76510	240870	187
SAUGER	4230	840	5060	4
ANY SPECIES	73740	20950	94690	75
OTHER	300	80	380	1
TOTAL	**806600**	**434000**	**1240590**	**632**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=FT. LOUDOUN

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	1129	97.4
OTHERS	30	2.6

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BLOUNT	478	42.5
KNOX	471	41.8
LOUDON	102	9.1
OTHERS IN TN	75	6.7

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	1096	94.8
B) 26-100	30	2.6
C) 101-250	19	1.6
D) > 250	11	1.0

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	620	98.4
B) VACATION	3	0.5
C) BUSINESS	6	1.0
D) OTHER	1	0.2

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	616	97.8
B) 2-5	8	1.3
C) 6-10	5	0.8
D) 11-15	1	0.2

BOONE

RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=BOONE

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	4122	14.4	0.9	662	0.1	3.0
03 MARCH	19191	27.2	4.2	3319	0.7	13.9
04 APRIL	20389	22.8	4.5	3335	0.7	14.8
05 MAY	23861	29.0	5.3	4347	1.0	17.3
06 JUNE	28273	16.4	6.3	5987	1.3	20.5
07 JULY	22796	24.9	5.0	4562	1.0	16.5
08 AUGUST	19516	13.8	4.3	3837	0.8	14.1
TOTAL	**138148**			**26049**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=BOONE

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	660	31.4	0.16	28.2	41	52.3	0.01	83.2
03 MARCH	20151	32.0	1.05	16.2	3838	29.4	0.20	10.5
04 APRIL	9787	27.2	0.48	14.3	612	54.7	0.03	42.6
05 MAY	10260	32.4	0.43	14.0	1193	65.3	0.05	52.6
06 JUNE	39582	34.2	1.40	29.7	565	56.0	0.02	66.2
07 JULY	24392	33.8	1.07	22.1	1140	60.2	0.05	55.0
08 AUGUST	13661	22.1	0.70	17.0	976	57.0	0.05	54.2
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TOTAL	**118493**				**8365**			

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=BOONE

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CARP	51	1624.0	0.0	51	0		0.0	0	100.0		0
BLUE CATFISH	212	1101.1	0.2	106	96	651.3	1.1	0	54.7	6.25	1
CHANNEL CATFISH	1799	163.9	1.5	638	362	76.9	4.3	362	79.9	4.95	6
FLATHEAD CATFISH	306	746.3	0.3	122	190	208.4	2.3	95	37.9	12.70	4
RAINBOW TROUT	245	1055.8	0.2	245	0		0.0	0	100.0		0
BROWN TROUT	129	990.7	0.1	0	0		0.0	0	100.0		0
WHITE BASS	542	485.3	0.5	465	0		0.0	0	100.0		0
STRIPED BASS	7652	58.3	6.5	2870	432	59.9	5.2	299	94.4	16.16	13
CHEROKEE BASS	4618	73.8	3.9	1491	801	90.7	9.6	120	82.7	4.64	19
ROCK BASS	49	2294.6	0.0	0	0		0.0	0	100.0		0
GREEN SUNFISH	116	1938.8	0.1	116	0		0.0	0	100.0		0
WARMOUTH	1664	471.3	1.4	756	0		0.0	0	100.0		0
BLUEGILL	47326	24.4	40.1	34372	2189	47.1	26.2	1866	95.4	0.26	61
SMALLMOUTH BASS	19547	24.5	16.6	17955	706	45.6	8.4	380	96.4	2.62	13
SPOTTED BASS	1128	314.4	1.0	1062	0		0.0	0	100.0		0
LARGEMOUTH BASS	21202	23.0	18.0	19711	393	58.5	4.7	246	98.1	2.76	8
WHITE CRAPPIE	5769	62.8	4.9	5544	1728	48.9	20.7	1646	70.0	0.81	21
BLACK CRAPPIE	5129	76.4	4.3	4976	1154	79.9	13.8	1099	77.5	0.91	21
BLACKNOSE CRAPPIE	478	269.3	0.4	435	216	290.2	2.6	216	54.8	1.02	3

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=BOONE

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	2421	34.0	493	1.8	0.20	86.5	0.14	141.9	9
ANY TROUT	118	141.2	23	0.1	0.35		0.00		1
ANY TEMPERATE BASS	327	56.3	53	0.2	0.07	114.3	0.00		2
STRIPED BASS	10954	16.8	2106	7.9	0.13	79.3	0.02	124.9	48
CHEROKEE BASS	2300	35.5	452	1.7	0.43	27.4	0.04	104.0	9
ANY SUNFISH	6985	20.5	1412	5.1	3.09	47.8	0.42	74.6	21
ANY BLACK BASS	84872	9.8	15903	61.4	0.34	16.3	0.00	145.5	384
SMALLMOUTH BASS	1127	43.0	199	0.8	0.38	14.9	0.00		9
LARGEMOUTH BASS	236	102.9	47	0.2	0.56		0.00		1
ANY CRAPPIE	8067	23.8	1391	5.8	1.28	60.1	0.39	66.2	36
ANY SPECIES	19721	14.4	3766	14.3	0.99	60.5	0.01	106.2	82
OTHER	1018	51.4	207	0.7	0.00		0.00		4
TOTAL	**138146**		**26052**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=BOONE

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	BLUE CATFISH	0.02	0.00
	CHANNEL CATFISH	0.15	0.11
	FLATHEAD CATFISH	0.03	0.03
ANY TROUT			
	RAINBOW TROUT	0.35	0.00
	BROWN TROUT	0.00	0.00
ANY TEMPERATE BASS			
	STRIPED BASS	0.05	0.00
	CHEROKEE BASS	0.02	0.00
ANY SUNFISH			
	GREEN SUNFISH	0.01	0.00
	WARMOUTH	0.07	0.00
	BLUEGILL	3.01	0.42
ANY BLACK BASS			
ANY BLACK BASS			
ANY BLACK BASS			
	SMALLMOUTH BASS	0.21	0.00
	SPOTTED BASS	0.01	0.00
	LARGEMOUTH BASS	0.23	0.00
ANY CRAPPIE			
	WHITE CRAPPIE	0.65	0.22
	BLACK CRAPPIE	0.58	0.14
	BLACKNOSE CRAPPIE	0.05	0.03

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=BOONE

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.26	27
03 MARCH	5	0.32	2	0.35	37
04 APRIL	32	0.59	14	0.44	66
05 MAY	48	0.21	18	0.29	44
06 JUNE	7	0.70	6	0.32	60
07 JULY	6	0.20	6	0.37	63
08 AUGUST	8	0.11	5	0.30	45

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2008

LAKE=BOONE

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	5980	7180	13160	9
ANY TROUT	580	470	1050	1
ANY TEMPERATE BASS	770	350	1120	2
STRIPED BASS	42810	35610	78420	48
CHEROKEE BASS	6240	15430	21670	9
ANY SUNFISH	7880	9900	14440	21
ANY BLACK BASS	304620	440360	744980	382
SMALLMOUTH BASS	12160	6030	18000	9
LARGEMOUTH BASS	2360	1180	3550	1
ANY CRAPPIE	20710	28330	49040	36
ANY SPECIES	43020	43370	86390	82
OTHER	1130	1920	3050	4
TOTAL	**448260**	**590130**	**1034870**	**604**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=BOONE

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	996	85.6
VA	105	9.0
OTHERS	62	5.3

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
CARTER	108	10.8
SULLIVAN	456	45.6
WASHINGTON	342	34.2
OTHERS IN TN	89	8.9
OUT-OF-STATE	4	0.4

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	958	82.3
B) 26-100	173	14.9
C) 101-250	20	1.7
D) > 250	13	1.1

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	644	99.5
B) VACATION	1	0.2
D) OTHER	2	0.3

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	626	96.9
B) 2-5	17	2.6
C) 6-10	3	0.5

WATAUGA

RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=WATAUGA

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	4925	13.2	0.8	949	0.1	3.4
03 MARCH	11098	29.3	1.7	1967	0.3	7.6
04 APRIL	21775	13.8	3.4	3702	0.6	14.9
05 MAY	32040	18.2	5.0	5332	0.8	22.0
06 JUNE	22048	16.9	3.4	3651	0.6	15.1
07 JULY	32199	25.3	5.0	5852	0.9	22.1
08 AUGUST	21578	22.6	3.4	4056	0.6	14.8
---	---			---		
TOTAL	**145663**			**25509**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=WATAUGA

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	887	34.3	0.18	31.5	443	61.0	0.09	57.1
03 MARCH	2775	43.0	0.25	29.7	888	107.8	0.08	100.0
04 APRIL	11541	28.6	0.53	25.1	1307	38.9	0.06	35.1
05 MAY	20185	28.0	0.63	20.8	2884	34.8	0.09	27.9
06 JUNE	11244	21.1	0.51	12.6	2646	25.0	0.12	17.8
07 JULY	12236	42.4	0.38	32.8	2898	63.0	0.09	57.1
08 AUGUST	22010	47.1	1.02	40.3	5395	69.5	0.25	63.0
TOTAL	**80878**				**16461**			

SUMMARY OF SPECIES CATCH STATISTICS - 2008

LAKE=WATAUGA

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CARP	1035	254.3	1.3	0	0		0.0	0	100.0		0
BLUE CATFISH	44	854.7	0.1	0	44	854.7	0.3	0	0.0	5.60	1
CHANNEL CATFISH	937	171.5	1.2	441	406	201.9	2.5	232	56.7	2.98	6
FLATHEAD CATFISH	555	332.6	0.7	62	372	330.7	2.3	62	33.0	3.92	6
RAINBOW TROUT	7688	31.5	9.5	7139	5459	37.1	33.2	5362	29.0	1.30	108
BROWN TROUT	53	1306.2	0.1	53	0		0.0	0	100.0		0
LAKE TROUT	2947	66.5	3.7	648	1908	57.0	11.6	537	35.3	3.09	30
ROCK BASS	1673	144.2	2.1	279	89	212.3	0.5	89	94.7	0.55	2
WARMOUTH	617	483.5	0.8	88	150	723.2	0.9	150	75.7	0.50	1
BLUEGILL	26297	27.7	32.6	18701	1970	63.8	12.0	1478	92.5	0.20	23
LONGEAR SUNFISH	292	605.9	0.4	0	0		0.0	0	100.0		0
SMALLMOUTH BASS	17396	22.9	21.6	15181	998	62.8	6.1	881	94.3	2.72	17
SPOTTED BASS	10006	41.6	12.4	9937	2755	80.6	16.7	2755	72.5	1.23	32
LARGEMOUTH BASS	8556	36.1	10.6	8088	535	58.9	3.3	494	93.7	2.29	13
BLACKNOSE CRAPPIE	44	854.7	0.1	44	44	854.7	0.3	44	0.0	1.00	1
WALLEYE	2414	105.6	3.0	2153	1729	85.2	10.5	1482	28.4	3.85	27

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2008

LAKE=WATAUGA

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	2222	44.8	408	1.5	0.25	42.4	0.13	121.0	5
RAINBOW TROUT	558	64.0	104	0.4	1.10	16.2	1.01	22.2	6
ANY TROUT	28146	15.5	4973	19.3	0.23	29.9	0.16	37.5	78
LAKE TROUT	5397	25.5	935	3.7	0.13	75.7	0.12	78.1	19
ANY SUNFISH	5821	29.6	1058	4.0	2.41	64.6	0.46	123.2	15
ANY BLACK BASS	62941	9.9	10882	43.2	0.37	22.5	0.05	69.9	211
SMALLMOUTH BASS	1126	30.1	217	0.8	0.15	48.2	0.12	58.7	10
LARGEMOUTH BASS	360	106.0	63	0.2	0.11		0.00		2
ANY CRAPPIE	1821	43.1	309	1.3	0.04	141.2	0.04	141.2	6
WALLEYE	13148	18.3	2291	9.0	0.09	55.7	0.07	54.0	46
ANY SPECIES	23505	15.1	4166	16.1	0.50	75.8	0.04	162.3	53
OTHER	621	73.6	103	0.4	0.00		0.00		2
TOTAL	**145666**		**25509**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2008

LAKE=WATAUGA

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	BLUE CATFISH	0.00	0.00
	CHANNEL CATFISH	0.22	0.10
	FLATHEAD CATFISH	0.03	0.03
ANY TROUT			
	RAINBOW TROUT	0.23	0.16
	ANY TROUT	0.00	0.00
	BROWN TROUT	0.00	0.00
ANY SUNFISH			
	WARMOUTH	0.01	0.04
	BLUEGILL	2.40	0.42
	LONGEAR SUNFISH	0.00	0.00
ANY BLACK BASS			
ANY BLACK BASS			
ANY BLACK BASS			
	SMALLMOUTH BASS	0.24	0.01
	SPOTTED BASS	0.15	0.04
	LARGEMOUTH BASS	0.13	0.01
ANY CRAPPIE			
	BLACKNOSE CRAPPIE	0.04	0.04

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=WATAUGA

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.18	23
03 MARCH	62	0.25	7	0.20	13
04 APRIL	19	0.31	12	0.47	41
05 MAY	16	0.41	8	0.38	54
06 JUNE	0		0	0.53	25
07 JULY	0		0	0.21	22
08 AUGUST	0		0	0.44	17

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2008

LAKE=WATAUGA

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	4060	4890	8680	5
RAINBOW TROUT	720	1070	1790	6
ANY TROUT	64770	153220	217990	78
LAKE TROUT	25730	16030	39050	18
ANY SUNFISH	21080	18130	39210	15
ANY BLACK BASS	254040	300080	554120	210
SMALLMOUTH BASS	1080	1080	2170	10
LARGEMOUTH BASS	4320	900	3610	2
ANY CRAPPIE	2080	4590	6670	6
WALLEYE	47990	45310	93290	46
ANY SPECIES	51000	46250	97250	52
OTHER	500	1180	1680	2
TOTAL	**477370**	**592730**	**1065510**	**450**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008

LAKE=WATAUGA

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
NC	99	10.8
TN	768	83.8
OTHERS	50	5.5

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
CARTER	437	57.0
JOHNSON	137	17.9
SULLIVAN	43	5.6
WASHINGTON	81	10.6
OTHERS IN TN	67	8.7
OUT-OF-STATE	1	0.1

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	620	67.5
B) 26-100	274	29.8
C) 101-250	12	1.3
D) > 250	13	1.4

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	448	98.5
B) VACATION	7	1.5

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	430	94.7
B) 2-5	21	4.6
C) 6-10	3	0.7

Appendix I

Field Data Collection Forms

Tennessee Wildlife Resources Agency
Reservoir Angler Count

1. Calendar Date____/____/____
   mm dd yy

2. Day Period: am or pm (Circle One)

3. Reservoir _____ (Code)

4. Area _____

5. Clerk ID _____ (TWRA Radio Numbers)

6. Survey Method: Roving or Access Point (Circle)

7. Count of Bank Anglers _____

8. Count of Boat Anglers _____

9. Comments _____

_____

_____

_____

_____

_____

_____

_____

_____

Form No. WR-0795 (Rev. 11-00)
RDA 1455

Tennessee Wildlife Resources Agency
Reservoir Angler Survey

(Questions in bold represent angler contact questions)

1. Calendar Date____/____/_____ 2. Reservoir _____ (Code) 3. Area _____
mm dd yy

4. Angler Type: Bank or Boat (Circle) **5. Hours Fished ____.___**

6. How many more hours do you plan to fish today? ____.___ (indicate completed trip with a zero)

7. Party Size ____ (No. of anglers)

8. Principal Species Fished For: (Circle One)
997=any species, 370=crappie, 360=black bass, 364=LM bass, 362=SM bass, 363=SP bass, 345=sunfish, 238=catfish, 492=walleye, 491=sauger, 493 =saugeye, 282=trout, 287=lake trout, 279=rainbow trout, 284=brown trout, 325=temperate bass, 328=striped bass, 326=white bass, 329=cherokee bass, 268=musky, 16=other

Fish Harvest Information (for party):

Species Code	No. Harvested	Bulk Weight (lbs.)	No. Released
		.	
		.	
		.	
		.	
		.	
		.	

Economic Section

9. State of Residence _____ (Code) **10. County of Residence** _____ (Code)

11. Miles from Home to Lake ____ (1 = 0-25 mi., 2 = 26-100 mi., 3 = 101-250 mi., 4 = over 250 mi.)

12. Reason for Trip ____ (1 = Fishing, 2 = Vacation, 3 = Business, 4 = Other)

13. No. of days in Trip _____

Clerk: *"I would now like to ask you some questions about the value of your fishing trip. It is important to the TWRA to estimate the value of reservoir sportfisheries. The next two questions will be used only to calculate this economic estimate."*

14. How much money will you spend on today's fishing trip for things like gas, food, bait, lodging, guides, etc.? $_____

15. How much more than $*value above* **would you be willing to pay to fish here per day, if for example, it just kept getting more and more expensive to make this trip?** $_____

Tournament Section

16. Was the angler(s) fishing in a tournament during the interview? Yes_____ No_____

Form No. WR-0794 (Rev. 12-01)
RDA 1455

Final Report

Enclosure 5

Tennessee Reservoir Creel Survey

Revised 2009 Results

(*This edition supersedes any previous issues of the same report*)

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Fisheries Management Division
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June, 2010

Table of Contents

Page

Program Overview 6

Statewide

Statewide Angling Effort for All Anglers, by Lake – 2009 13
Statewide Angling Effort for Intended Species – 2009 14
Statewide Catch Statistics for All Anglers, By Lake – 2009 15
Statewide Fishing Effort and Catch Rates, by Lake, for Intended Species – 2009 16
Statewide Summary of Trip Expenditures and Consumer Surplus, by Lake - 2009 30
Statewide Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2009 31

TWRA Region I

Kentucky Reservoir

Monthly Angling Effort for All Anglers – 2009 34
Monthly Catch Statistics for All Anglers – 2009 35
Summary of Species Catch Statistics – 2009 36
Summary of Fishing Effort and Catch Rates for Intended Species – 2009 37
Summary of Relative Species Catch Rates Within Target Groups - 2009 38
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 39
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2009 40
Summary of Sociological Questions - 2009 41

Kentucky 1 - North Reservoir

Monthly Angling Effort for All Anglers – 2009 43
Monthly Catch Statistics for All Anglers – 2009 44
Summary of Species Catch Statistics – 2009 45
Summary of Fishing Effort and Catch Rates for Intended Species – 2009 46
Summary of Relative Species Catch Rates Within Target Groups - 2009 47
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 48
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2009 49
Summary of Sociological Questions – 2009 50

Kentucky 2 - South Reservoir

Monthly Angling Effort for All Anglers – 2009 52
Monthly Catch Statistics for All Anglers – 2009 53
Summary of Species Catch Statistics – 2009 54
Summary of Fishing Effort and Catch Rates for Intended Species – 2009 55
Summary of Relative Species Catch Rates Within Target Groups - 2009 56
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 57
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2009 58
Summary of Sociological Questions - 2009 59

Barkley Reservoir

Monthly Angling Effort for All Anglers – 2009 61
Monthly Catch Statistics for All Anglers – 2009 62
Summary of Species Catch Statistics – 2009 63
Summary of Fishing Effort and Catch Rates for Intended Species – 2009 64
Summary of Relative Species Catch Rates Within Target Groups - 2009 65
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 66
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2009 67
Summary of Sociological Questions - 2009 68

Pickwick Reservoir

Monthly Angling Effort for All Anglers – 2009 ……..……..……..……... 70
Monthly Catch Statistics for All Anglers – 2009 ……..……..…..……..……..... 71
Summary of Species Catch Statistics – 2009 ……..……..…….…… 72
Summary of Fishing Effort and Catch Rates for Intended Species – 2009 …….…….…… 73
Summary of Relative Species Catch Rates Within Target Groups - 2009 ……...…… 74
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 75
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2009 …… 76
Summary of Sociological Questions - 2009 ……....……..……..…… 77

Reelfoot Lake

Monthly Angling Effort for All Anglers – 2009 ……..……..……..……... 79
Monthly Catch Statistics for All Anglers – 2009 ……..……..…..……..……..... 80
Summary of Species Catch Statistics – 2009 ……..……..…….…… 81
Summary of Fishing Effort and Catch Rates for Intended Species – 2009 …….…….…… 82
Summary of Relative Species Catch Rates Within Target Groups - 2009 ……...…… 83
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 84
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2009 …… 85
Summary of Sociological Questions - 2009 ……....……..……..…… 86

TWRA Region II

Woods Reservoir

Monthly Angling Effort for All Anglers – 2009 ……..……..……..……... 89
Monthly Catch Statistics for All Anglers – 2009 ……..……..…..……..……..... 90
Summary of Species Catch Statistics – 2009 ……..……..…….…… 91
Summary of Fishing Effort and Catch Rates for Intended Species – 2009 …….…….…… 92
Summary of Relative Species Catch Rates Within Target Groups - 2009 ……...…… 93
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 94
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2009 …… 95
Summary of Sociological Questions - 2009 ……....……..……..…… 96

Normandy Reservoir

Monthly Angling Effort for All Anglers – 2009 ……..……..……..……... 98
Monthly Catch Statistics for All Anglers – 2009 ……..……..…..……..……..... 99
Summary of Species Catch Statistics – 2009 ……..……..…….…… 100
Summary of Fishing Effort and Catch Rates for Intended Species – 2009 …….…….…… 101
Summary of Relative Species Catch Rates Within Target Groups - 2009 ……...…… 102
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 103
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2009 …… 104
Summary of Sociological Questions - 2009 ……....……..……..…… 105

Percy Priest Reservoir

Monthly Angling Effort for All Anglers – 2009 ……..……..……..……... 107
Monthly Catch Statistics for All Anglers – 2009 ……..……..…..……..……..... 108
Summary of Species Catch Statistics – 2009 ……..……..…….…… 109
Summary of Fishing Effort and Catch Rates for Intended Species – 2009 …….…….…… 110
Summary of Relative Species Catch Rates Within Target Groups – 2009.……...…… 111
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 112
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2009 …… 113
Summary of Sociological Questions - 2009 ……....……..……..…… 114

Old Hickory Reservoir

Monthly Angling Effort for All Anglers – 2009 ……..……..……..……... 116
Monthly Catch Statistics for All Anglers – 2009 ……..……..…..……..……..... 117
Summary of Species Catch Statistics – 2009 ……..……..…….…… 118
Summary of Fishing Effort and Catch Rates for Intended Species – 2009 …….…….…… 119
Summary of Relative Species Catch Rates Within Target Groups - 2009 ……...…… 120
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 121
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2009 …… 122
Summary of Sociological Questions - 2009 ……....……..……..…… 123

TWRA Region III

Center Hill Reservoir

Monthly Angling Effort for All Anglers – 2009 126
Monthly Catch Statistics for All Anglers – 2009 127
Summary of Species Catch Statistics – 2009 128
Summary of Fishing Effort and Catch Rates for Intended Species – 2009 129
Summary of Relative Species Catch Rates Within Target Groups - 2009 130
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 131
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2009 132
Summary of Sociological Questions - 2009 133

Chickamauga Reservoir

Monthly Angling Effort for All Anglers – 2009 135
Monthly Catch Statistics for All Anglers – 2009 136
Summary of Species Catch Statistics – 2009..... 137
Summary of Fishing Effort and Catch Rates for Intended Species – 2009 138
Summary of Relative Species Catch Rates Within Target Groups - 2009 139
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 140
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2009 141
Summary of Sociological Questions - 2009 142

Watts Bar Reservoir

Monthly Angling Effort for All Anglers – 2009 144
Monthly Catch Statistics for All Anglers – 2009 145
Summary of Species Catch Statistics – 2009 146
Summary of Fishing Effort and Catch Rates for Intended Species – 2009 147
Summary of Relative Species Catch Rates Within Target Groups - 2009 148
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 149
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2009 150
Summary of Sociological Questions - 2009 151

Dale Hollow Reservoir

Monthly Angling Effort for All Anglers – 2009 153
Monthly Catch Statistics for All Anglers – 2009 154
Summary of Species Catch Statistics – 2009 155
Summary of Fishing Effort and Catch Rates for Intended Species – 2009 156
Summary of Relative Species Catch Rates Within Target Groups - 2009 157
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 158
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2009 159
Summary of Sociological Questions - 2009 160

TWRA Region IV

Norris Reservoir

Monthly Angling Effort for All Anglers – 2008..... 163
Monthly Catch Statistics for All Anglers – 2008 164
Summary of Species Catch Statistics – 2008 165
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 166
Summary of Relative Species Catch Rates Within Target Groups - 2008 167
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 168
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 169
Summary of Sociological Questions - 2008 170

Douglas Reservoir

Monthly Angling Effort for All Anglers – 2009 172
Monthly Catch Statistics for All Anglers – 2009 173
Summary of Species Catch Statistics – 2009 174
Summary of Fishing Effort and Catch Rates for Intended Species – 2009 175
Summary of Relative Species Catch Rates Within Target Groups - 2009 176
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 177
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2009 178
Summary of Sociological Questions - 2009 179

Melton Hill Reservoir

Monthly Angling Effort for All Anglers – 2009 ……..……..……..……... 181
Monthly Catch Statistics for All Anglers – 2009 ……..……..…..……..……..... 182
Summary of Species Catch Statistics – 2009 ……..……..…….…… 183
Summary of Fishing Effort and Catch Rates for Intended Species – 2009 …….…….…… 184
Summary of Relative Species Catch Rates Within Target Groups - 2009 ……...…… 185
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 186
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2009 …… 187
Summary of Sociological Questions - 2009 ……....……..……..…… 188

Fort Loudon Reservoir

Monthly Angling Effort for All Anglers – 2009 ……..……..……..……... 190
Monthly Catch Statistics for All Anglers – 2009.……..……..…..……..……..... 191
Summary of Species Catch Statistics – 2009 ……..……..…….…… 192
Summary of Fishing Effort and Catch Rates for Intended Species – 2009 …….…….…… 193
Summary of Relative Species Catch Rates Within Target Groups - 2009 ……...…… 194
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 195
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2009 …… 196
Summary of Sociological Questions - 2009 ……....……..……..…… 197

Boone Reservoir

Monthly Angling Effort for All Anglers – 2009 ……..……..……..……... 199
Monthly Catch Statistics for All Anglers – 2009 ……..……..…..……..……..... 200
Summary of Species Catch Statistics – 2009 …..……..…….…… 201
Summary of Fishing Effort and Catch Rates for Intended Species – 2009 …….…….…… 202
Summary of Relative Species Catch Rates Within Target Groups - 2009 ……...…… 203
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 204
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2009 …… 205
Summary of Sociological Questions - 2009 ……....……..……..…… 206

Watauga Reservoir

Monthly Angling Effort for All Anglers – 2009 ……..……..……..……... 208
Monthly Catch Statistics for All Anglers – 2009 ……..……..…..……..……..... 209
Summary of Species Catch Statistics – 2009……..……..…….…… 210
Summary of Fishing Effort and Catch Rates for Intended Species – 2009 …….…….…… 211
Summary of Relative Species Catch Rates Within Target Groups - 2009 ……...…… 212
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 213
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2009 …… 214
Summary of Sociological Questions - 2009 ……....……..……..…… 215

Appendix I

TWRA Reservoir Angler Count Form ……. 217
TWRA Reservoir Angler Survey Form ……. 218

Program Overview

This document provides a summary of data collected by Tennessee Wildlife Resource Agency (TWRA) personnel for the statewide reservoir angler creel survey for the 2009 calendar year. Creel surveys were used to assess the fisheries of 18 reservoirs throughout Tennessee using two basic sampling methods; roving and access point. This overview contains descriptions of: 1) survey designs, 2) sampling methodologies, and 3) analytical methods. Each description is divided into roving and access point surveys. The roving survey descriptions give a more thorough account of the methodology; access point survey descriptions only list methods that differed from roving surveys. The roving and access point creel survey designs were adopted from methods described by Malvestuto et al. (1978), Malvestuto (1996) and St. John (1992). The intention of this narrative is to provide readers with a brief overview of the statistical sampling framework.

Survey Designs

Creel clerks conducted surveys on 18 reservoirs with active, on-site methods whereby anglers were interviewed either during, or immediately following, fishing trips. Fishery-dependent information collected included: angler effort, trip duration, target preferences, catch, harvest, release, demographic measures, economic values and individual status as a tournament angler. Seventeen of the reservoirs were sampled using roving creel survey designs while one of the reservoirs (Normandy) was sampled with access point creel survey methods.

(Roving Surveys)

The roving survey method used non-uniform probability, stratified random sampling to maximize sampling efficiency and minimize bias. Each reservoir was divided into a number of sections. The area of a section was originally defined by the ability of a creel clerk to complete a circuit in about 1 to 1.5 hours. Each area within a reservoir was assigned a sampling probability based on expected angler use within each of 12 monthly time blocks. The sum of the area probabilities equaled 1.0. The fishing day was defined as the period of time from sunrise to sunset. Fishing days were divided into two sampling periods in which the period from sunrise to sunset was divided into two roughly equal periods. Sampling periods also were assigned probabilities based on expected angler use within each month, and these summed to 1.0. Sampled days were divided into two strata (weekend days and weekday days) to homogenize the distributions of angler occurrence, assuming that anglers would be more abundant during weekend samples when a greater proportion of the angling population would be expected to have more time for recreation.

Random work schedules were created prior to the beginning of the 2008 survey year. Within any given month, a predetermined number of days was allocated to each day-type (weekend and weekday). Calendar days then were randomly chosen each month for each day-type. Within each sample day, secondary sampling units consisted of all the possible combinations of time periods (2) and lake sections. Probabilities for secondary sample units were derived by multiplying the time period probability by the lake section probability. Secondary sampling unit probabilities summed to 1.0 for any given lake. One secondary sampling unit was randomly chosen each day; that is to say, each sample day, creel clerks worked one ½-day period within a single, pre-defined lake section.

(Access Point Surveys)

Although the sampling methodology for the access point creel surveys differed from the roving surveys, the framework used to determine the sampling designs was basically the same. The one exception was the substitution of angler access points (boat ramps) for reservoir areas. The secondary sample units comprised all combinations of access points and time periods, and the secondary sampling unit probabilities summed to 1.0. During each sample day, creel clerks worked one ½-day period at a single access point.

Sample Methodology

(Roving Surveys)

Creel clerks collected data during the scheduled work periods described previously. A roving creel survey sample consisted of two parts: angler counts and angler interviews. Daily counts of anglers were taken within the sample period by making a circuit of the lake concurrently with interviews during a single circuit of the lake section within a ½-day sampling period (count-as-you-go method). The count-as-you-go method required that check stations be established at ¼-way points on the route to enable clerks to stay on schedule and finish the single circuit during the allotted time. Travel direction was randomly determined by coin toss. All anglers fishing from either boats or from the shore were counted.

Creel clerks interviewed as many anglers as possible during a sample period. If there were more anglers than could be interviewed, then angling parties were systematically skipped to ensure that interviews were collected throughout the entire reservoir section in the allotted time.

Upon approaching anglers, creel clerks recorded information, which did not require interrupting fishing, including date, reservoir, sample area, fishing from the bank or a boat, and the number of anglers in the fishing party. When the clerk reached the angler or angling group, he asked if they would mind spending a few moments answering questions related to the fishing trip. If anglers did not wish to be interrupted, then the creel clerk moved on. If anglers did not mind responding to the interview, then the clerk asked how long they had been fishing, how much longer they expected to fish, what their primary target species was, what state and county they were from, the distance they traveled from home, the reason for the trip, the number of days in the trip, dollar amount of trip expenditures, and the additional amount of money they would be willing to spend if daily expenditures were to increase. The anglers were also categorized as a tournament (actively fishing in a tournament at the time of the interview) or a non-tournament angler. The creel clerk counted all fish harvested and recorded the bulk weight of each harvested species. Anglers were also asked how many of each species had been released. Each respondent's answers were recorded on pre-printed survey forms using TWRA survey codes. Since anglers were interviewed before completing their fishing trips with roving surveys, interview data from roving surveys were based on uncompleted fishing trips.

(Access Point Surveys)

Access point surveys differed from roving creel surveys in that anglers were not interviewed until they had finished fishing and were leaving the water at an access site. Thus, interview data from access point surveys were based on competed fishing trips. During any given ½-day sampling period, the creel clerk waited at a boat ramp and interviewed anglers as they left using the same interview format as used for roving surveys. All anglers leaving access sites were counted and as many as possible were interviewed.

Analytical Methods

Creel surveys conducted by TWRA used randomized sampling designs which, taken alone, only provide information about small portions of each reservoir fishery. To provide meaningful estimates about the populations from which the samples were drawn, the sample values must be expanded over space and time. The following narrative describes the calculations for these data expansions for any given reservoir. To assess the efficiency of the sampling effort and the variability of the estimates, relative standard errors (RSE) were calculated where possible. The RSE is the standard error (se) of an estimated value (y), expressed as a percentage of that value, or RSE = (se/y) x 100. Mathematical formulas for the following estimates were given by Malvestuto et al. (1978).

(Roving Surveys)

Fishing Effort

Estimates of fishing effort were calculated using daily angler counts and the number of hours within a sample period. Thus, for any given sampling period, fishing effort measured in angler-hours (e) was calculated as

the product of the total angler count (c) and the number of hours assigned to the sampling period (h), or e = c(h). This value estimates total angler-hours for a single lake section within a single time period, which must be expanded to an estimate of angler-hours for the entire lake for the whole day. This expansion is accomplished by dividing e by the probability for the secondary sampling unit (time period/lake section) worked that day. For example, if the time period probability was 0.5 and the lake section probability was 0.4, then the secondary sampling unit probability is 0.5 x 0.4, or 0.20, so an estimate of e=100 angler-hours for a given secondary unit would be expanded to 100/0.2 or 100 x 5 = 500 angler-hours for the whole lake for that entire day (E).

To derive estimates of total monthly fishing effort, means were taken across the daily values of E within each day-type stratum each month. These two daily mean values of fishing effort (one for weekends and one for weekdays) were weighted by the proportional number of those day types within each month (e.g. weekend weight = no. weekend-days/ total days in month), and then summed to provide a mean daily estimate of fishing effort for the month. This mean daily value then was multiplied by the total number of days in the month to give total monthly effort for the entire lake (T). Intended monthly fishing effort for a given species, or species group, was computed as the proportion of interviewed anglers fishing for that group times total monthly fishing effort. So, for example, if 25% of the anglers interviewed were fishing for black bass, the monthly-intended fishing effort for black bass would be 0.25(T).

Catch Rates (CPE, HPE and RPE)

Catch-per-unit-effort or CPE = the number of fish caught per hour, which includes fish harvested plus fish released back into the water. For roving creel surveys, CPE values are based on the number of fish caught by anglers at the time of interview (uncompleted fishing trips). For the following description, release or harvest values may be substituted for catch values to derive release per angler-hour, RPE, or harvest per angler-hour, HPE.

For each interview on a given sample day, the total number of fish caught by all anglers in the fishing party (n) was divided by the total time all anglers in the party had spent fishing (f) up to the point they were interviewed. These individual party CPE values (n/f) then were averaged to provide a daily CPE. A mean was taken across the daily CPE values within each day-type stratum, and then these weekday and weekend means were weighted and summed (as described for daily fishing effort above) to give a mean daily CPE for the month. This mean daily value is representative of the month as a whole, and becomes the monthly CPE estimate for all species combined.

Catch, Harvest and Release

Total daily catch for an entire reservoir (C) was calculated by multiplying the total daily effort (E) by the daily CPE estimate. The same process was applied to release and harvest data to derive total daily release (R) and total daily harvest (H). The daily total catch values were used to calculate a mean daily catch within each day-type stratum each month. The mean daily catch values for weekdays and weekends were weighted and summed across day types, as done for effort and CPE above, to derive a mean daily catch for the month. This mean daily value then was multiplied by the number of days in the month (as done for fishing effort) to estimate total monthly catch (M).

Estimates of catch for individual species were calculated from the percent composition of individual species recorded during interviews. For example, if a given species accounted for 40% of the total number of fish recorded during a given month, then the total monthly catch for that species would be 0.4(M).

Intended Species Catch Rates

Catch rates (CPE, RPE and HPE) for anglers targeting certain species were calculated based on interviews of anglers who intended to catch those species. For computations, interviews from anglers intending to catch various species were grouped. Catch rates for intended species were calculated for each interview by summing the number of fish caught of that species and dividing by fishing effort for all anglers in the party. A mean CPE then was taken across interviews within intended species categories to provide the intended species catch rates.

Caution should be exercised when interpreting these data since many of the target species groups were general categories (e.g. black bass, crappie) while other valid responses were more specific (e.g. largemouth bass, smallmouth bass). Anglers were asked to be as specific as possible with regard to their target species, but often no

discrimination was made between individual species within general groups. For example, calculations made for black bass only include data taken from anglers who stated black bass to be their target species group. The black bass category does not include values from anglers who specified they were fishing for largemouth bass or smallmouth bass. Calculations for these species are presented within their own categories. To obtain a true estimate of effort for black bass, all categories for black bass species, including the general category, must be summed (i.e. true total black bass effort = black bass effort + largemouth bass effort + smallmouth bass effort). The CPE estimates for intended species, however, are not additive since each estimate is based on a different value of intended fishing effort in the denominator, i.e., the fractions do not have a common denominator as they stand.

Relative Species Catch Rates

Relative catch rates are the proportional catch rates of individual species within the general intended species groups. These rates were computed by multiplying the intended catch rate for a given species group by the proportion of relevant species recorded in the creel. So, for example, if the intended catch rate for crappie is 1.8 fish/h, and black crappie represented 25% of the crappie in the creel and white crappie represented the remaining 75%, then the intended rate of 1.8 was partitioned into 1.8(.25) = 0.45 for black crappie and 1.8(.75) = 1.35 for white crappie. These relations do not hold for black bass, however, because there were usually more than one black bass intended catch rate (e.g., general black bass, largemouth bass, smallmouth bass, etc.), so there was no single rate to partition. The intended rates are not additive, as explained above, so the sum of the intended rates cannot serve as the single rate for black bass to be partitioned. So, the relative CPE values for black bass species were computed by generating a new total black bass catch rate by summing the monthly total catches of all black bass species in the numerator, and dividing by the sum of total monthly-intended fishing effort for all black bass in the denominator. This value then was partitioned by the proportion of each black bass species recorded in the creel. Although the species relative catch rates for black bass sum to this new total rate, the new rate is not a pure intended catch rate and thus is not reported elsewhere in the report. In summary, relative catch rates basically reflect the species composition of the catch within intended species groups, and thus do not represent true catch rates for those individual species, as do the intended rates.

Economic Values

Anglers were asked to give estimates of daily trip expenditures for items, which included fuel, food, bait, lodging and guides fees. They were also asked how much additional money they would be willing to spend if daily trip costs were to increase in the future. This value is anglers' willingness to pay above actual costs, and represents anglers' consumer surplus. Consumer surplus is equivalent to the amount of money that anglers would be willing to spend for the opportunity to fish a given resource, over-and-above what they actually have to spend. This amount of money is the theoretical profit associated with the fishery, as if it were privately owned. This value is necessary to compute so that the profit associated with recreational fisheries in Tennessee can be compared to other more traditional industries. Money spent for trip preparation and travel to the reservoirs (fuel, food, bait, etc.) is funneled into other businesses that provide goods and services enabling anglers to go fishing; this money, in turn, employs people in these business, and is re-cycled in the local economies, generating more goods, services and profits. Both components of economic value, trip expenditures and consumer surplus, sum to provide an estimate of total angler-oriented value.

Total monthly estimates of trip expenditures and consumer surplus were computed by multiplying the median dollar values per trip by the total number of angler-trips estimated for the month. This was first done for each intended species group and then the intended species values were summed to give the total monthly economic estimates. Median trip values for the economic responses were used because frequency distributions of expenditures per trip and consumer surplus per trip were skewed to the left, such that means were generally higher than medians, and thus the more conservative median values were used in the computations.

Tournament Status

Beginning in 2002, all anglers were asked if they were actively fishing in a tournament at the time of the interview. Each interview record was coded as yes (tournament fishing), or no (not tournament fishing). Analyses involving tournament angling were restricted to those individuals targeting black basses. Black bass

Catch rates (CPE) were calculated for tournament anglers as well as non tournament angler. For comparison, percent of black bass effort and catch rates for by angler type were printed in tables at the end of each reservoir section in the report

(Access Point Surveys)

This section only describes estimates, which differ in computation from the roving survey methods. These differences include estimating fishing effort and catch rates. All other estimates were calculated the same way for the two survey techniques.

Fishing Effort

The standard difference between roving and access point surveys with respect to derivation of fishing effort is how angler-hours for the sample period are estimated. For roving surveys as described above, sample period effort is estimated as the angler count times the number of hours in the sample period. For access point surveys, however, angler-hours for the sample period is simply the sum of angler-hours recorded from completed trip interviews at the access point. This assumes that all anglers who exited the site were interviewed. If all anglers could not be interviewed upon exit, then angler-hours for the sample period were estimated as the mean completed trip time computed from interviews, times the total number of anglers who exited the site. Once sample period effort is computed, the computational techniques for access point surveys followed those outlined above for roving surveys.

In 2008, Normandy, and Woods Reservoirs were sampled using the access point survey method. To maximize work time efficiency during the initial year, only the major access sites were sampled. In order to expand the daily ramp effort to lake wide totals, monthly area probabilites were estimated based on boat trailer counts that were measured from all ramps on every scheduled sample day. These probablilties were used to obtain the monthly area probability for the sampled ramp which was used to exand the local effort lake wide during the monthly time blocks. This differed from the roving surveys which had fixed probabilities prior to the sample year and were used to schedule the sampling effort.

Catch Rates

Catch rates from roving surveys should be computed differently than catch rates from access point surveys. This is because catch rate data are based on uncompleted trips from roving surveys. If trip data is not complete, then it is appropriate to compute a catch rate for each interview and then take a mean of these rates within any given day to provide a daily catch rate. This is the method described above for computation of catch rates from roving surveys. This method gives each interview equal weighting regardless of how long the anglers were fishing. Equal weighting is appropriate because the final length of the trip is not known. However, if the completed trip length is known as with access point surveys, then catch rate is computed as the sum of catch across interviews (numerator) divided by the sum of effort across interviews (denominator). This provides a single total ratio estimate of CPE, which is equivalent to weighting each interview catch rate by the time spent fishing. This weighting is appropriate because the total fishing trip is represented in the data.

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STATEWIDE

STATEWIDE ANGLING EFFORT FOR ALL ANGLERS - 2009

LAKE	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
NORRIS	308255	12.2	8.9	57971	1.7	4.8
WOODS	55861	11.5	15.1	11914	3.3	0.9
DALE HOLLOW	376584	5.7	16.3	60319	2.4	5.9
REELFOOT	429686	7.8	41.3	55603	5.3	6.7
BARKLEY	101338	17.9	5.6	16315	0.8	1.6
CENTER HILL	317969	11.0	17.4	58930	3.3	5.0
PERCY PRIEST	687329	6.9	48.3	149723	10.6	10.7
OLD HICKORY	893724	7.8	39.9	187588	8.4	14.0
MELTON HILL	103830	6.7	18.2	24460	4.3	1.6
NORMANDY	43316	8.2	14.1	8561	2.9	0.7
FT. LOUDOUN	220588	7.8	15.1	49302	3.5	3.4
CHICKAMAUGA	473068	6.8	13.7	74562	2.2	7.4
WATTS BAR	437960	7.2	11.2	68304	1.9	6.8
PICKWICK	123683	6.4	20.0	19149	3.0	1.9
KENTUCKY	1820963	10.3	16.7	292982	2.8	28.5
STATEWIDE	**6394154**	**3.5**	**20.1**	**1135683**	**3.8**	**100.0**

STATEWIDE ANGLING EFFORT FOR INTENDED SPECIES GROUPS - 2009

INTENDED SPECIES	ANGLER HOURS	RELATIVE STANDARD ERROR	ANGLER TRIPS	PERCENT EFFORT
ANY CATFISH	759036	4.9	132090	11.9
MUSKELLUNGE	5984	18.8	1505	0.1
RAINBOW TROUT	510	80.4	101	0.0
ANY TROUT	4054	27.2	725	0.1
BROWN TROUT	416	111.4	65	0.0
WHITE BASS	98391	9.8	18678	1.5
YELLOW BASS	357	.	104	0.0
STRIPED BASS	187917	8.7	36321	2.9
CHEROKEE BASS	34072	13.7	7293	0.5
ANY SUNFISH	276443	7.2	45606	4.3
ANY BLACK BASS	1488110	4.0	251466	23.3
SMALLMOUTH BASS	210640	6.9	35023	3.3
SPOTTED BASS	10221	22.7	2033	0.2
LARGEMOUTH BASS	583453	5.9	122538	9.1
ANY CRAPPIE	1540339	8.2	258035	24.1
SAUGER	154497	11.6	27811	2.4
WALLEYE	140262	8.4	26720	2.2
ANY SPECIES	896109	3.9	169259	14.0
OTHER	1471	62.9	303	0.0

STATEWIDE CATCH STATISTICS FOR ALL ANGLERS, BY LAKE - 2009

LAKE	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
NORRIS	170630	17.1	0.55	40.3	37110	29.2	0.12	76.2
WOODS	53876	16.2	0.96	39.1	16265	25.1	0.29	62.4
DALE HOLLOW	177348	8.7	0.47	19.0	73435	13.2	0.20	32.7
REELFOOT	762776	10.8	1.78	14.4	516383	11.0	1.20	14.9
BARKLEY	153120	22.4	1.51	20.3	49747	22.1	0.49	17.7
CENTER HILL	175056	15.4	0.55	38.3	64862	14.7	0.20	34.0
PERCY PRIEST	906379	9.2	1.32	18.6	283232	10.5	0.41	27.3
OLD HICKORY	1245335	10.1	1.39	20.4	260450	12.1	0.29	28.0
MELTON HILL	91310	9.4	0.88	20.3	12042	20.2	0.12	60.9
NORMANDY	29566	11.4	0.68	28.8	10157	14.6	0.23	34.8
FT. LOUDOUN	299834	9.8	1.36	23.1	59986	12.1	0.27	41.3
CHICKAMAUGA	1232464	7.9	2.61	14.2	312975	9.1	0.66	20.3
WATTS BAR	879483	13.8	2.01	28.8	217070	19.7	0.50	47.8
PICKWICK	136919	5.0	1.12	14.1	28253	9.4	0.23	29.7
KENTUCKY	3871916	12.4	2.13	13.2	1507726	13.9	0.83	17.8
STATEWIDE	**10186012**	**5.3**	**1.59**	**18.8**	**3449693**	**6.6**	**0.54**	**24.7**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2009

INTENDED SPECIES=ANY CATFISH

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
NORRIS	1984	69.0	387	0.3	0.00	.	0.00	.	0
WOODS	2241	34.0	567	0.3	0.59	47.8	0.47	59.1	48
DALE HOLLOW	6839	24.3	1062	0.9	0.35	28.6	0.33	27.5	83
REELFOOT	3710	32.3	530	0.5	1.22	69.5	1.03	76.5	34
BARKLEY	21838	24.6	3543	2.9	0.88	40.8	0.83	41.0	185
CENTER HILL	5550	29.3	1096	0.7	0.21	75.7	0.21	75.7	31
PERCY PRIEST	45250	14.2	10075	6.0	0.24	43.2	0.19	55.0	87
OLD HICKORY	92060	12.1	19077	12.1	0.38	41.0	0.22	48.4	89
MELTON HILL	2811	32.6	643	0.4	0.19	57.5	0.07	0.0	2
NORMANDY	1825	26.2	357	0.2	0.45	79.3	0.30	79.8	59
FT. LOUDOUN	14431	19.6	3241	1.9	0.70	43.9	0.25	48.8	64
CHICKAMAUGA	99968	8.8	15616	13.2	1.42	14.6	0.70	20.7	1245
WATTS BAR	66758	11.9	10385	8.8	1.48	32.2	0.67	30.5	423
PICKWICK	45576	14.2	7231	6.0	0.64	20.7	0.46	28.0	142
KENTUCKY	348195	9.1	58280	45.9	0.81	25.0	0.69	28.5	1280
STATEWIDE	**759036**		**132090**						**3772**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2009

INTENDED SPECIES=MUSKELLUNGE

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
DALE HOLLOW	399	80.0	71	6.7	0.00	.	0.00	.	0
MELTON HILL	5585	19.3	1434	93.3	0.03	124.4	0.00	.	0
STATEWIDE	**5984**		**1505**						**0**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2009

INTENDED SPECIES=RAINBOW TROUT

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
DALE HOLLOW	368	104.7	68	72.2	0.00	.	0.00	.	0
MELTON HILL	142	98.8	33	27.8	0.75	.	0.75	.	3
STATEWIDE	**510**		**101**						**3**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2009

INTENDED SPECIES=ANY TROUT

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
DALE HOLLOW	4054	27.2	725	100.0	0.32	41.1	0.32	41.1	30

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2009

INTENDED SPECIES=BROWN TROUT

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
CHICKAMAUGA	416	111.4	65	100.0	0.00	.	0.00	.	0

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2009

INTENDED SPECIES=WHITE BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
WOODS	145	101.2	32	0.1	6.29	.	1.71	.	12
BARKLEY	551	94.7	94	0.6	2.24	.	1.86	.	13
PERCY PRIEST	16613	18.6	3713	16.9	0.76	46.8	0.24	72.0	42
OLD HICKORY	26886	18.9	5809	27.3	1.53	48.0	0.55	37.1	125
FT. LOUDOUN	2901	49.0	651	2.9	1.62	.	0.00	.	0
CHICKAMAUGA	1139	57.8	185	1.2	3.28	4.6	2.05	22.8	54
WATTS BAR	14681	23.6	2288	14.9	4.58	14.0	1.90	34.7	230
KENTUCKY	35475	18.6	5906	36.1	1.72	31.8	0.71	29.2	151
STATEWIDE	**98391**		**18678**						**627**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2009

INTENDED SPECIES=YELLOW BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
PERCY PRIEST	357	.	104	100.0	10.00	.	7.00	.	14

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2009

INTENDED SPECIES=STRIPED BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
NORRIS	56400	15.0	11013	30.0	0.08	49.8	0.02	95.9	10
WOODS	28	148.1	5	0.0	0.33	.	0.00	.	0
PERCY PRIEST	28263	15.5	6144	15.0	0.17	109.1	0.03	81.5	9
OLD HICKORY	41473	15.7	8682	22.1	0.16	136.2	0.07	159.7	17
MELTON HILL	4537	22.5	1135	2.4	0.06	152.4	0.00	.	0
FT. LOUDOUN	2654	45.0	590	1.4	1.03	210.9	0.00	.	0
CHICKAMAUGA	10582	19.1	1670	5.6	0.43	35.9	0.10	56.5	20
WATTS BAR	12298	20.9	1908	6.5	0.72	29.6	0.23	59.4	36
KENTUCKY	31682	35.0	5174	16.9	0.62	28.1	0.16	39.6	22
STATEWIDE	**187917**		**36321**						**114**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2009

INTENDED SPECIES=CHEROKEE BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
PERCY PRIEST	34072	13.7	7293	100.0	0.48	80.5	0.18	52.9	46

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2009

INTENDED SPECIES=ANY SUNFISH

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
NORRIS	29444	22.1	5582	10.7	2.26	36.5	1.30	53.0	151
WOODS	166	82.4	42	0.1	2.00	.	2.00	.	12
DALE HOLLOW	23134	14.4	3657	8.4	3.14	22.7	2.26	20.9	769
REELFOOT	95626	13.5	11984	34.6	2.21	6.6	1.79	6.6	2524
BARKLEY	2645	46.7	398	1.0	5.97	8.2	3.80	8.8	104
CENTER HILL	14514	18.9	2890	5.3	3.75	29.5	2.05	20.6	230
PERCY PRIEST	19267	17.7	4185	7.0	1.66	56.7	0.97	54.5	182
OLD HICKORY	32055	17.6	6563	11.6	3.44	38.9	1.12	48.9	119
MELTON HILL	2581	36.1	629	0.9	1.53	34.6	0.75	63.1	43
NORMANDY	520	49.4	99	0.2	3.45	35.4	2.41	84.0	66
FT. LOUDOUN	6114	30.2	1380	2.2	2.50	53.8	1.40	41.9	107
CHICKAMAUGA	2589	38.0	397	0.9	6.60	16.5	2.32	38.8	166
WATTS BAR	241	140.2	39	0.1	14.62	.	6.92	.	9
PICKWICK	4760	60.6	765	1.7	6.42	0.0	1.02	108.9	13
KENTUCKY	42787	24.5	6996	15.5	5.48	17.6	3.16	21.2	559
STATEWIDE	**276443**		**45606**						**5054**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2009

INTENDED SPECIES=ANY BLACK BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
NORRIS	94181	17.7	17542	6.3	0.47	38.4	0.05	133.9	27
WOODS	32425	13.0	6891	2.2	0.68	21.4	0.14	62.1	368
DALE HOLLOW	80698	8.8	12755	5.4	0.29	19.6	0.06	50.8	86
REELFOOT	43848	12.0	5809	2.9	0.48	16.6	0.05	67.3	32
BARKLEY	44845	21.5	7228	3.0	1.63	19.3	0.16	32.5	92
CENTER HILL	149123	15.3	26713	10.0	0.56	22.1	0.19	31.7	267
MELTON HILL	36280	9.3	8390	2.4	0.93	19.4	0.03	94.2	26
NORMANDY	17973	10.6	3572	1.2	0.38	26.6	0.08	62.7	133
FT. LOUDOUN	78936	11.1	17384	5.3	1.23	19.3	0.03	115.6	24
CHICKAMAUGA	190073	7.8	29865	12.8	1.13	12.4	0.08	41.0	245
WATTS BAR	204015	8.3	31646	13.7	1.06	13.4	0.07	44.9	186
PICKWICK	47263	12.2	7394	3.2	0.98	19.8	0.08	92.0	18
KENTUCKY	468450	9.6	76277	31.5	1.52	13.0	0.16	37.2	404
STATEWIDE	**1488110**		**251466**						**1908**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2009

INTENDED SPECIES=SMALLMOUTH BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
NORRIS	36691	23.1	6867	17.4	0.88	55.9	0.09	127.0	12
DALE HOLLOW	151266	7.3	23552	71.8	0.29	15.4	0.01	61.6	26
CENTER HILL	3410	38.7	684	1.6	0.29	21.3	0.00	.	0
PERCY PRIEST	8434	23.0	1856	4.0	0.33	58.5	0.01	195.8	1
OLD HICKORY	5708	37.9	1182	2.7	0.14	81.0	0.00	.	0
MELTON HILL	422	71.3	104	0.2	0.17	.	0.00	.	0
FT. LOUDOUN	710	71.5	154	0.3	0.77	.	0.15	.	2
KENTUCKY	3999	64.3	624	1.9	0.65	11.9	0.00	.	0
STATEWIDE	**210640**		**35023**						**41**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2009

INTENDED SPECIES=SPOTTED BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
NORRIS	913	106.6	160	8.9	0.43	.	0.00	.	0
DALE HOLLOW	98	147.7	15	1.0	0.00	.	0.00	.	0
CENTER HILL	7032	28.0	1359	68.8	0.95	39.6	0.74	46.8	62
PERCY PRIEST	714	.	207	7.0	0.00	.	0.00	.	0
OLD HICKORY	674	102.1	132	6.6	0.57	.	0.00	.	0
NORMANDY	790	35.4	160	7.7	0.88	65.6	0.51	39.1	41
STATEWIDE	**10221**		**2033**						**103**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2009

INTENDED SPECIES=LARGEMOUTH BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
NORRIS	2381	68.4	435	0.4	0.00	.	0.00	.	0
WOODS	982	38.6	250	0.2	0.64	49.2	0.05	221.2	10
DALE HOLLOW	1676	45.5	253	0.3	0.42	61.7	0.15	84.6	2
PERCY PRIEST	214157	7.7	46488	36.7	0.61	22.3	0.03	46.0	92
OLD HICKORY	352613	8.5	72956	60.4	0.96	15.8	0.07	35.8	172
MELTON HILL	200	70.8	61	0.0	0.42	82.7	0.00	.	0
NORMANDY	866	34.1	167	0.1	0.12	48.6	0.02	72.5	3
FT. LOUDOUN	1002	56.7	245	0.2	0.46	0.0	0.09	0.0	3
CHICKAMAUGA	238	143.4	36	0.0	0.00	.	0.00	.	0
WATTS BAR	496	96.8	78	0.1	0.29	.	0.00	.	0
PICKWICK	835	.	121	0.1	0.00	.	0.00	.	0
KENTUCKY	8007	48.6	1448	1.4	1.10	40.1	0.44	33.0	17
STATEWIDE	**583453**		**122538**						**299**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2009

INTENDED SPECIES=ANY CRAPPIE

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
NORRIS	20226	40.4	3687	1.3	0.44	25.4	0.16	15.1	47
WOODS	16605	16.5	3376	1.1	0.60	33.0	0.34	41.1	398
DALE HOLLOW	33847	11.4	5295	2.2	0.83	35.5	0.45	46.9	225
REELFOOT	270294	8.8	35121	17.5	1.49	8.2	1.05	7.8	3921
BARKLEY	25720	26.6	4142	1.7	2.60	29.4	1.46	30.9	469
CENTER HILL	32473	20.1	5758	2.1	1.50	38.0	0.41	51.1	101
PERCY PRIEST	164874	7.5	35657	10.7	1.56	24.5	0.63	23.0	1064
OLD HICKORY	134310	13.0	28974	8.7	1.28	29.2	0.58	30.0	451
MELTON HILL	13011	14.8	3164	0.8	0.96	33.6	0.28	48.2	73
NORMANDY	14795	10.3	2911	1.0	0.74	34.2	0.38	37.6	547
FT. LOUDOUN	62013	10.0	13850	4.0	1.74	23.5	0.75	23.6	534
CHICKAMAUGA	44290	12.5	7085	2.9	2.39	19.5	1.07	18.3	919
WATTS BAR	45248	13.4	7022	2.9	1.32	26.6	0.65	27.6	436
PICKWICK	7964	41.2	1265	0.5	0.88	43.8	0.67	41.9	67
KENTUCKY	654669	18.6	100728	42.5	2.16	10.0	1.23	11.5	5601
STATEWIDE	**1540339**		**258035**						**14853**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2009

INTENDED SPECIES=SAUGER

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
OLD HICKORY	30396	21.4	6875	19.7	0.85	48.5	0.21	62.7	40
FT. LOUDOUN	3139	18.7	990	2.0	0.00	.	0.00	.	0
CHICKAMAUGA	10277	20.9	1739	6.7	1.23	18.2	0.34	16.1	68
WATTS BAR	12593	25.1	2085	8.2	1.40	45.6	0.39	45.3	46
KENTUCKY	98092	16.5	16122	63.5	0.71	14.3	0.32	13.4	511
STATEWIDE	**154497**		**27811**						**665**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2009

INTENDED SPECIES=WALLEYE

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
NORRIS	20597	26.5	3879	14.7	0.08	94.6	0.05	119.3	4
DALE HOLLOW	40975	12.0	7271	29.2	0.31	22.9	0.23	21.8	139
CENTER HILL	63344	13.5	12322	45.2	0.30	32.1	0.12	38.4	89
OLD HICKORY	13629	25.7	2922	9.7	0.42	55.4	0.24	50.7	20
NORMANDY	1717	27.0	326	1.2	0.37	75.0	0.07	136.4	8
STATEWIDE	**140262**		**26720**						**260**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2009

INTENDED SPECIES=ANY SPECIES

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
NORRIS	45442	22.6	8418	5.1	0.54	91.2	0.02	147.0	7
WOODS	3272	24.9	749	0.4	1.74	67.1	0.71	146.2	119
DALE HOLLOW	33229	10.9	5598	3.7	0.20	102.8	0.12	118.9	48
REELFOOT	16206	19.2	2159	1.8	0.47	74.4	0.36	80.1	74
BARKLEY	5739	35.6	911	0.6	0.94	75.9	0.53	84.6	35
CENTER HILL	42526	13.3	8107	4.7	0.17	116.5	0.12	134.8	27
PERCY PRIEST	154907	9.5	33912	17.3	0.80	29.8	0.31	39.2	482
OLD HICKORY	162870	10.2	34199	18.2	1.60	39.9	0.36	44.3	269
MELTON HILL	38258	9.5	8871	4.3	0.60	40.4	0.18	106.1	152
NORMANDY	4834	16.8	966	0.5	0.64	41.4	0.10	64.1	39
FT. LOUDOUN	48685	12.4	10819	5.4	0.70	29.5	0.08	106.9	30
CHICKAMAUGA	113499	8.1	17904	12.7	4.12	21.3	1.43	33.5	1836
WATTS BAR	81635	11.4	12851	9.1	2.31	31.0	0.70	55.0	375
PICKWICK	15404	22.6	2370	1.7	2.39	10.0	0.22	197.5	4
KENTUCKY	129603	14.0	21425	14.5	2.47	38.2	1.17	54.4	514
STATEWIDE	**896109**		**169259**						**4011**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2009

INTENDED SPECIES=OTHER

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
PERCY PRIEST	417	77.1	87	28.3	0.00	.	0.00	.	0
OLD HICKORY	1054	82.4	216	71.7	0.00	.	0.00	.	0
STATEWIDE	**1471**		**303**						**0**

STATEWIDE SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS, BY LAKE - 2009

LAKE	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
NORRIS	971690	990660	1951220	182
WOODS	137610	149880	287490	56
DALE HOLLOW	1750290	1059150	2803660	1172
REELFOOT	1892800	498610	2390270	1036
BARKLEY	400010	255130	653400	252
CENTER HILL	995560	722470	1715980	665
PERCY PRIEST	1867870	838650	2706510	341
OLD HICKORY	2572030	1261970	3834010	327
MELTON HILL	379910	218850	598780	499
NORMANDY	94120	171730	265850	94
FT. LOUDOUN	823930	559870	1383770	544
CHICKAMAUGA	1470940	1875350	3346290	1207
WATTS BAR	1614740	2083340	3698080	746
PICKWICK	492720	45420	538140	124
KENTUCKY	6205030	2512490	8712720	1915
TOTAL	**21669250**	**13243570**	**34886170**	**9160**

STATEWIDE SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS, BY INTENDED SPECIES - 2009

TARGET	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	1689730	1097370	2785950	936
MUSKELLUNGE	45660	40390	86050	35
RAINBOW TROUT	2870	1010	3880	2
ANY TROUT	26250	18350	44600	10
BROWN TROUT	870	5160	6030	1
WHITE BASS	228140	181020	408250	110
STRIPED BASS	731430	546370	1276380	177
CHEROKEE BASS	119300	21750	141050	26
ANY SUNFISH	814770	380190	1187900	390
ANY BLACK BASS	7239740	5118720	12358480	2995
SMALLMOUTH BASS	1151340	701100	1849370	532
SPOTTED BASS	25150	17890	43040	24
LARGEMOUTH BASS	2378580	964380	3342960	241
ANY CRAPPIE	4509390	2360120	6859130	2201
SAUGER	399330	212210	611540	187
WALLEYE	370520	277080	644920	331
ANY SPECIES	1936180	1300460	3236640	962
TOTAL	**21669250**	**13243570**	**34886170**	**9160**

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REGION I

KENTUCKY

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MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2009

LAKE=KENTUCKY

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	30381	34.6	0.3	5450	0.1	1.7
02 FEBRUARY	76340	22.7	0.7	12407	0.1	4.2
03 MARCH	238836	24.8	2.2	37472	0.3	13.1
04 APRIL	564286	29.3	5.2	83287	0.8	31.0
05 MAY	221319	18.9	2.0	36338	0.3	12.2
06 JUNE	176561	14.2	1.6	30229	0.3	9.7
07 JULY	155213	21.4	1.4	27613	0.3	8.5
08 AUGUST	75121	15.7	0.7	12461	0.1	4.1
09 SEPTEMBER	112914	14.2	1.0	18295	0.2	6.2
10 OCTOBER	92034	13.7	0.9	15301	0.1	5.1
11 NOVEMBER	47988	15.2	0.4	8105	0.1	2.6
12 DECEMBER	29970	20.8	0.3	6024	0.1	1.6
TOTAL	**1820963**			**292982**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2009

LAKE=KENTUCKY

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	26735	45.5	0.88	28.1	13671	46.5	0.45	29.1
02 FEBRUARY	120617	29.2	1.58	17.9	55728	29.1	0.73	17.9
03 MARCH	668741	27.5	2.80	11.6	253166	28.5	1.06	13.7
04 APRIL	1314786	30.6	2.33	8.7	547357	31.5	0.97	11.1
05 MAY	646251	21.6	2.92	10.4	312060	25.9	1.41	17.4
06 JUNE	331935	24.0	1.88	19.1	100640	31.6	0.57	28.1
07 JULY	257654	30.4	1.66	21.1	66742	36.6	0.43	28.6
08 AUGUST	79628	21.1	1.06	13.9	12771	28.3	0.17	22.8
09 SEPTEMBER	141143	19.6	1.25	13.4	38391	20.4	0.34	14.4
10 OCTOBER	121485	20.5	1.32	15.0	38654	28.0	0.42	24.1
11 NOVEMBER	112292	25.1	2.34	19.8	46068	29.9	0.96	25.4
12 DECEMBER	50649	35.3	1.69	28.0	22478	38.8	0.75	31.9
TOTAL	**3871916**				**1507726**			

SUMMARY OF SPECIES CATCH STATISTICS - 2009

LAKE=KENTUCKY

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
SKIPJACK HERRING	25489	90.6	0.7	25489	12945	127.6	0.9	12945	49.2	0.53	40
ANY BUFFALO	420	395.7	0.0	420	420	395.7	0.0	420	0.0	12.10	5
ANY BULLHEAD	403	494.1	0.0	403	403	494.1	0.0	403	0.0	0.65	2
BLUE CATFISH	213347	25.7	5.5	208731	166274	30.6	11.0	164068	22.1	2.53	1055
CHANNEL CATFISH	59690	79.3	1.5	59482	55517	81.2	3.7	55313	7.0	2.45	272
FLATHEAD CATFISH	98	959.3	0.0	0	98	959.3	0.0	0	0.0	10.50	1
RAINBOW TROUT	1609	572.5	0.0	0	0	.	0.0	0	100.0	.	0
WHITE BASS	130178	36.5	3.4	95440	41057	50.1	2.7	35527	68.5	0.60	245
YELLOW BASS	208806	30.5	5.4	18867	5136	200.2	0.3	4148	97.5	0.39	26
STRIPED BASS	27391	87.7	0.7	24768	6957	143.9	0.5	6377	74.6	10.96	24
BLUEGILL	481668	19.3	12.4	364051	214255	26.8	14.2	196509	55.5	0.25	821
REDEAR SUNFISH	14568	249.2	0.4	13906	11136	218.3	0.7	11136	23.6	0.42	30
SMALLMOUTH BASS	9020	326.6	0.2	8419	1851	439.5	0.1	1111	79.5	2.15	10
SPOTTED BASS	19874	135.3	0.5	19874	3864	188.7	0.3	3864	80.6	0.96	13
LARGEMOUTH BASS	857404	11.7	22.1	793223	47238	24.8	3.1	46426	94.5	2.80	200
WHITE CRAPPIE	1081441	15.3	27.9	1081106	576810	21.3	38.2	576494	46.7	0.69	3621
BLACK CRAPPIE	625110	18.4	16.1	625110	324055	24.8	21.4	324055	48.2	0.82	1946
YELLOW PERCH	145	5005.4	0.0	0	0	.	0.0	0	100.0	.	0
SAUGER	97912	38.5	2.5	95885	41654	49.6	2.8	41093	57.5	1.50	520
FRESHWATER DRUM	16810	200.5	0.4	1257	0	.	0.0	0	100.0	.	0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2009

LAKE=KENTUCKY

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	348195	9.1	58280	19.1	0.81	25.0	0.69	28.5	330
WHITE BASS	35475	18.6	5906	1.9	1.72	31.8	0.71	29.2	46
STRIPED BASS	31682	35.0	5174	1.7	0.62	28.1	0.16	39.6	18
ANY SUNFISH	42787	24.5	6996	2.3	5.48	17.6	3.16	21.2	21
ANY BLACK BASS	468450	9.6	76277	25.7	1.52	13.0	0.16	37.2	636
SMALLMOUTH BASS	3999	64.3	624	0.2	0.65	11.9	0.00		5
LARGEMOUTH BASS	8007	48.6	1448	0.4	1.10	40.1	0.44	33.0	9
ANY CRAPPIE	654669	18.6	100728	36.0	2.16	10.0	1.23	11.5	646
SAUGER	98092	16.5	16122	5.4	0.71	14.3	0.32	13.4	153
ANY SPECIES	129603	14.0	21425	7.1	2.47	38.2	1.17	54.4	93
TOTAL	**1820959**		**292980**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2009

LAKE=KENTUCKY

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY BULLHEAD	0.00	0.00
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.63	0.52
	CHANNEL CATFISH	0.18	0.17
	FLATHEAD CATFISH	0.00	0.00
ANY SUNFISH			
	BLUEGILL	5.28	2.99
	REDEAR SUNFISH	0.20	0.17
ANY BLACK BASS			
	ANY BLACK BASS	0.00	0.00
	SMALLMOUTH BASS	0.02	0.00
	SPOTTED BASS	0.04	0.01
	LARGEMOUTH BASS	1.65	0.10
ANY CRAPPIE			
	WHITE CRAPPIE	1.37	0.79
	BLACK CRAPPIE	0.79	0.44

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=KENTUCKY

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
02 FEBRUARY	0		0	0.66	7
03 MARCH	33	1.54	5	2.05	58
04 APRIL	24	1.27	10	1.43	50
05 MAY	33	1.24	14	1.61	30
06 JUNE	42	3.05	24	1.58	66
07 JULY	26	1.49	16	1.63	79
08 AUGUST	26	1.44	16	1.19	83
09 SEPTEMBER	20	1.43	6	1.37	66
10 OCTOBER	25	1.46	16	1.36	47
11 NOVEMBER	0		0	1.27	36
12 DECEMBER	0		0	1.27	16

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS
FOR INTENDED SPECIES - 2009

LAKE=KENTUCKY

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	653250	212480	865730	330
WHITE BASS	56070	25510	81580	46
STRIPED BASS	74540	27080	101610	18
ANY SUNFISH	67130	45860	111270	21
ANY BLACK BASS	3022020	1118730	4140750	632
SMALLMOUTH BASS	14390	15770	27090	5
LARGEMOUTH BASS	77550	13150	90700	9
ANY CRAPPIE	1725250	952580	2677830	642
SAUGER	277860	21980	299840	119
ANY SPECIES	236970	79350	316320	93
TOTAL	**6205030**	**2512490**	**8712720**	**1915**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2009

LAKE=KENTUCKY

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	3302	91
OTHERS	326	9

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BENTON	658	20.0
CARROLL	195	5.9
HENRY	567	17.2
HOUSTON	279	8.5
HUMPHREYS	241	7.3
OTHERS IN TN	1353	41.1
OUT-OF-STATE	1	0.0

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	2421	66.8
B) 26-100	1022	28.2
C) 101-250	63	1.7
D) > 250	117	3.2

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	1893	98.2
B) VACATION	23	1.2
C) BUSINESS	11	0.6

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	1759	91.2
B) 2-5	121	6.3
C) 6-10	40	2.1
D) 11-15	7	0.4
F) >20	2	0.1

KENTUCKY #1

NORTH

RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2009

LAKE=KENTUCKY-NORTH

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	7097	31.7	0.1	1406	0.0	0.7
02 FEBRUARY	16766	56.1	0.2	3377	0.0	1.6
03 MARCH	159465	36.0	1.5	24293	0.2	15.1
04 APRIL	413841	37.7	3.8	59621	0.6	39.1
05 MAY	121068	25.0	1.1	18116	0.2	11.4
06 JUNE	82757	24.1	0.8	13053	0.1	7.8
07 JULY	65590	18.6	0.6	11031	0.1	6.2
08 AUGUST	30058	28.7	0.3	4831	0.0	2.8
09 SEPTEMBER	64368	18.5	0.6	10308	0.1	6.1
10 OCTOBER	49375	12.5	0.5	8375	0.1	4.7
11 NOVEMBER	30490	20.1	0.3	4857	0.0	2.9
12 DECEMBER	16536	29.4	0.2	3480	0.0	1.6
TOTAL	**1057411**			**162748**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2009

LAKE=KENTUCKY-NORTH

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	14549	39.9	2.05	23.0	6600	41.4	0.93	25.3
02 FEBRUARY	52142	58.1	3.11	13.3	29173	58.6	1.74	14.8
03 MARCH	516667	37.5	3.24	9.7	199331	38.1	1.25	11.6
04 APRIL	1092540	38.6	2.64	7.7	438671	39.1	1.06	9.5
05 MAY	481851	26.9	3.98	9.7	251821	29.6	2.08	15.4
06 JUNE	190341	31.1	2.30	19.0	58757	39.5	0.71	30.4
07 JULY	101665	26.8	1.55	19.0	26236	32.1	0.40	25.7
08 AUGUST	25249	30.1	0.84	8.9	3607	36.1	0.12	21.0
09 SEPTEMBER	80460	22.1	1.25	12.0	21885	24.6	0.34	15.9
10 OCTOBER	83938	19.7	1.70	15.1	28144	24.7	0.57	21.2
11 NOVEMBER	84457	28.9	2.77	20.4	33844	33.3	1.11	26.0
12 DECEMBER	29599	31.0	1.79	9.5	13560	30.8	0.82	9.0
TOTAL	**2753458**				**1111629**			

SUMMARY OF SPECIES CATCH STATISTICS - 2009

LAKE=KENTUCKY-NORTH

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
BLUE CATFISH	74318	55.8	2.7	73049	71878	56.8	6.5	70621	3.3	2.03	686
CHANNEL CATFISH	27572	136.9	1.0	27404	27572	136.9	2.5	27404	0.0	2.47	164
WHITE BASS	3931	654.1	0.1	2117	1484	530.0	0.1	1417	62.2	0.60	22
YELLOW BASS	195649	29.4	7.1	12454	2110	220.3	0.2	1407	98.9	0.38	9
STRIPED BASS	845	1119.5	0.0	0	122	1096.9	0.0	0	85.6	2.15	2
BLUEGILL	309129	25.4	11.2	234908	158036	33.9	14.2	152776	48.9	0.22	631
REDEAR SUNFISH	14250	253.4	0.5	13587	10819	222.1	1.0	10819	24.1	0.42	29
SMALLMOUTH BASS	3812	723.1	0.1	3812	0	.	0.0	0	100.0	.	0
SPOTTED BASS	5129	364.7	0.2	5129	0	.	0.0	0	100.0	.	0
LARGEMOUTH BASS	507182	17.2	18.4	463900	3586	97.3	0.3	3567	99.3	2.91	35
WHITE CRAPPIE	986353	16.4	35.8	986353	527364	22.9	47.4	527364	46.5	0.69	3401
BLACK CRAPPIE	599171	18.8	21.8	599171	304723	25.9	27.4	304723	49.1	0.83	1874
YELLOW PERCH	145	5005.4	0.0	0	0	.	0.0	0	100.0	.	0
SAUGER	9157	39.0	0.3	9157	3935	45.5	0.4	3935	57.0	1.73	124
FRESHWATER DRUM	16640	202.1	0.6	1099	0	.	0.0	0	100.0	.	0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2009

LAKE=KENTUCKY-NORTH

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	154869	13.6	24308	14.6	0.82	20.8	0.80	20.3	189
WHITE BASS	9172	26.7	1495	0.9	0.30	89.0	0.30	89.0	17
ANY SUNFISH	24875	34.4	3726	2.4	6.03	15.6	4.28	17.9	14
ANY BLACK BASS	262329	14.1	40665	24.8	1.80	11.8	0.11	37.5	414
SMALLMOUTH BASS	3999	64.3	624	0.4	0.65	11.9	0.00		5
ANY CRAPPIE	545099	22.0	82673	51.6	3.27	7.9	1.86	8.8	534
SAUGER	8410	25.8	1697	0.8	1.10	15.7	0.49	20.3	43
ANY SPECIES	48657	21.6	7557	4.6	2.14	37.0	1.12	44.7	44
TOTAL	**1057410**		**162745**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2009

LAKE=KENTUCKY-NORTH

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	BLUE CATFISH	0.60	0.58
	CHANNEL CATFISH	0.22	0.22
ANY SUNFISH			
	BLUEGILL	5.70	4.00
	REDEAR SUNFISH	0.33	0.28
ANY BLACK BASS			
	ANY BLACK BASS	0.00	0.00
	SMALLMOUTH BASS	0.01	0.00
	SPOTTED BASS	0.02	0.00
	LARGEMOUTH BASS	1.74	0.01
ANY CRAPPIE			
	WHITE CRAPPIE	2.03	1.18
	BLACK CRAPPIE	1.24	0.68

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=KENTUCKY-NORTH

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
02 FEBRUARY	0		0	0.18	4
03 MARCH	5	2.62	1	2.24	47
04 APRIL	30	1.66	5	1.41	30
05 MAY	19	1.35	4	1.72	14
06 JUNE	42	3.05	24	1.81	38
07 JULY	24	1.24	9	1.85	58
08 AUGUST	27	1.61	9	1.08	49
09 SEPTEMBER	9	0.85	3	1.47	45
10 OCTOBER	17	1.48	11	1.58	35
11 NOVEMBER	0		0	1.49	17
12 DECEMBER	0		0	1.28	11

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2009

LAKE=KENTUCKY-NORTH

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	313800	191770	505570	189
WHITE BASS	19020	12730	31750	17
ANY SUNFISH	53220	38730	90220	14
ANY BLACK BASS	1705340	1091930	2797270	412
SMALLMOUTH BASS	14390	15770	27090	5
ANY CRAPPIE	1551720	885570	2437290	530
SAUGER	31700	20520	52220	43
ANY SPECIES	98300	63270	161560	44
TOTAL	**3787490**	**2320290**	**6102970**	**1254**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2009

LAKE=KENTUCKY-NORTH

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	2216	91.8
OTHERS	197	8.2

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BENTON	527	23.8
CARROLL	161	7.3
HENRY	563	25.4
HOUSTON	279	12.6
STEWART	133	6.0
OTHERS IN TN	550	24.9

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	1604	66.6
B) 26-100	648	26.9
C) 101-250	47	2.0
D) > 250	111	4.6

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	1256	99.8
B) VACATION	3	0.2

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	1138	90.2
B) 2-5	78	6.2
C) 6-10	38	3.0
D) 11-15	7	0.6

KENTUCKY #2

SOUTH

RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2009

LAKE=KENTUCKY-SOUTH

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	23284	44.1	0.2	4044	0.0	3.0
02 FEBRUARY	59575	24.4	0.6	9030	0.1	7.8
03 MARCH	79371	17.7	0.7	13179	0.1	10.4
04 APRIL	150444	35.6	1.4	23665	0.2	19.7
05 MAY	100251	28.7	0.9	18222	0.2	13.1
06 JUNE	93804	16.3	0.9	17175	0.2	12.3
07 JULY	89624	34.5	0.8	16581	0.2	11.7
08 AUGUST	45063	17.7	0.4	7630	0.1	5.9
09 SEPTEMBER	48546	22.0	0.4	7987	0.1	6.4
10 OCTOBER	42659	25.8	0.4	6926	0.1	5.6
11 NOVEMBER	17498	22.4	0.2	3248	0.0	2.3
12 DECEMBER	13434	29.3	0.1	2544	0.0	1.8
TOTAL	**763553**			**130231**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2009

LAKE=KENTUCKY-SOUTH

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	12108	49.5	0.52	20.6	7218	51.9	0.31	25.0
02 FEBRUARY	68511	32.2	1.15	20.4	26213	27.7	0.44	12.7
03 MARCH	153186	25.2	1.93	17.7	53972	28.1	0.68	21.5
04 APRIL	222657	38.3	1.48	13.3	111329	39.9	0.74	16.9
05 MAY	165414	30.3	1.65	9.4	60151	33.0	0.60	15.7
06 JUNE	141644	24.4	1.51	17.9	41274	24.9	0.44	18.6
07 JULY	155946	41.8	1.74	22.2	41227	47.0	0.46	30.1
08 AUGUST	54526	23.4	1.21	15.0	9463	28.8	0.21	22.3
09 SEPTEMBER	60197	26.9	1.24	15.1	16991	25.3	0.35	12.1
10 OCTOBER	37540	28.1	0.88	10.7	10665	39.9	0.25	29.5
11 NOVEMBER	27997	25.4	1.60	11.7	12424	30.0	0.71	19.5
12 DECEMBER	20957	53.9	1.56	43.5	9001	61.7	0.67	52.1
TOTAL	**1120683**				**399928**			

SUMMARY OF SPECIES CATCH STATISTICS - 2009

LAKE=KENTUCKY-SOUTH

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
SKIPJACK HERRING	25489	90.6	2.3	25489	12945	127.6	3.2	12945	49.2	0.53	40
ANY BUFFALO	420	395.7	0.0	420	420	395.7	0.1	420	0.0	12.10	5
ANY BULLHEAD	403	494.1	0.0	403	403	494.1	0.1	403	0.0	0.65	2
BLUE CATFISH	139027	25.8	12.4	135201	94396	32.1	23.6	93884	32.1	3.47	369
CHANNEL CATFISH	32118	88.9	2.9	32118	27945	88.2	7.0	27945	13.0	2.41	108
FLATHEAD CATFISH	98	959.3	0.0	0	98	959.3	0.0	0	0.0	10.50	1
RAINBOW TROUT	1609	572.5	0.1	0	0	.	0.0	0	100.0	.	0
WHITE BASS	126245	31.7	11.2	93921	39573	48.1	9.9	33894	68.7	0.60	223
YELLOW BASS	13157	209.6	1.2	6873	3026	303.2	0.8	2670	77.0	0.40	17
STRIPED BASS	26546	83.2	2.4	25936	6835	145.1	1.7	6835	74.3	11.76	22
BLUEGILL	172538	28.6	15.4	128873	56220	37.4	14.1	42313	67.4	0.32	190
REDEAR SUNFISH	317	1172.6	0.0	317	317	1172.6	0.1	317	0.0	0.60	1
SMALLMOUTH BASS	5207	199.5	0.5	4513	1851	439.5	0.5	1111	64.5	2.15	10
SPOTTED BASS	14747	130.9	1.3	14747	3864	188.7	1.0	3864	73.8	0.96	13
LARGEMOUTH BASS	350223	14.1	31.2	333321	43652	25.6	10.9	42478	87.5	2.77	165
WHITE CRAPPIE	95088	33.7	8.5	94673	49449	40.4	12.4	48999	48.0	0.58	220
BLACK CRAPPIE	25940	79.2	2.3	25940	19334	78.7	4.8	19334	25.5	0.73	72
SAUGER	88755	42.3	7.9	86331	37719	54.6	9.4	37052	57.5	1.43	396
FRESHWATER DRUM	170	1316.7	0.0	170	0	.	0.0	0	100.0	.	0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2009

LAKE=KENTUCKY-SOUTH

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	193326	12.2	33971	25.3	0.71	21.3	0.50	29.0	141
WHITE BASS	26303	23.3	4410	3.4	2.16	30.0	0.83	21.8	29
STRIPED BASS	31682	35.0	5174	4.1	0.62	28.1	0.16	39.6	18
ANY SUNFISH	17912	33.9	3271	2.3	3.84	23.8	1.53	38.7	7
ANY BLACK BASS	206121	12.3	35614	27.0	1.30	15.8	0.20	34.8	222
LARGEMOUTH BASS	8007	48.6	1448	1.0	1.10	40.1	0.44	33.0	9
ANY CRAPPIE	109570	18.4	18052	14.4	1.20	15.7	0.64	18.7	112
SAUGER	89682	17.9	14425	11.7	0.75	12.3	0.35	9.5	110
ANY SPECIES	80946	18.3	13868	10.6	2.50	39.3	1.12	63.7	49
TOTAL	**763549**		**130233**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2009

LAKE=KENTUCKY-SOUTH

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY BULLHEAD	0.00	0.00
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.57	0.38
	CHANNEL CATFISH	0.14	0.11
	FLATHEAD CATFISH	0.00	0.00
ANY SUNFISH			
	BLUEGILL	3.83	1.52
	REDEAR SUNFISH	0.01	0.01
ANY BLACK BASS			
	SMALLMOUTH BASS	0.02	0.01
	SPOTTED BASS	0.07	0.02
	LARGEMOUTH BASS	1.56	0.20
ANY CRAPPIE			
	WHITE CRAPPIE	0.94	0.46
	BLACK CRAPPIE	0.26	0.18

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=KENTUCKY-SOUTH

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
02 FEBRUARY	0		0	1.29	3
03 MARCH	40	1.27	4	1.23	11
04 APRIL	19	0.88	5	1.47	20
05 MAY	38	1.20	10	1.51	16
06 JUNE	0		0	1.27	28
07 JULY	29	1.81	7	1.03	21
08 AUGUST	26	1.23	7	1.34	34
09 SEPTEMBER	31	2.00	3	1.17	21
10 OCTOBER	42	1.42	5	0.71	12
11 NOVEMBER	0		0	1.07	19
12 DECEMBER	0		0	1.24	5

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2009

LAKE=KENTUCKY-SOUTH

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	339450	20720	360160	141
WHITE BASS	37060	12780	49830	29
STRIPED BASS	74540	27080	101610	18
ANY SUNFISH	13920	7140	21050	7
ANY BLACK BASS	1316680	26800	1343480	220
LARGEMOUTH BASS	77550	13150	90700	9
ANY CRAPPIE	173530	67010	240540	112
SAUGER	246160	1460	247620	76
ANY SPECIES	138680	16080	154760	49
TOTAL	**2417570**	**192220**	**2609750**	**661**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2009

LAKE=KENTUCKY-SOUTH

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
MS	119	9.8
TN	1086	89.4
OTHERS	10	0.8

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BENTON	131	12.1
DECATUR	87	8.0
DICKSON	66	6.1
HARDIN	147	13.6
HUMPHREYS	141	13.0
MADISON	82	7.6
PERRY	67	6.2
WILLIAMSON	59	5.5
OTHERS IN TN	300	27.8
OUT-OF-STATE	1	0.1

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	817	67.4
B) 26-100	374	30.8
C) 101-250	16	1.3
D) > 250	6	0.5

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	637	95.4
B) VACATION	20	3.0
C) BUSINESS	11	1.6

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	621	93.0
B) 2-5	43	6.4
C) 6-10	2	0.3
F) >20	2	0.3

BARKLEY

RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2009

LAKE=BARKLEY

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	268	100.0	0.0	57	0.0	0.3
02 FEBRUARY	1254	100.0	0.1	251	0.0	1.2
03 MARCH	2880	.	0.2	429	0.0	2.8
04 APRIL	13709	69.6	0.7	2046	0.1	13.5
05 MAY	16089	15.6	0.9	2341	0.1	15.9
06 JUNE	9523	21.0	0.5	1661	0.1	9.4
07 JULY	17666	51.6	1.0	2984	0.2	17.4
08 AUGUST	16525	59.8	0.9	2580	0.1	16.3
09 SEPTEMBER	8640	72.5	0.5	1421	0.1	8.5
10 OCTOBER	8370	13.2	0.5	1386	0.1	8.3
11 NOVEMBER	4243	41.2	0.2	715	0.0	4.2
12 DECEMBER	2171	47.6	0.1	444	0.0	2.1
TOTAL	**101338**			**16315**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2009

LAKE=BARKLEY

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	86	.	0.32	.	32	.	0.12	.
02 FEBRUARY	2721	.	2.17	.	978	.	0.78	.
03 MARCH	5011	.	1.74	.	1123	.	0.39	.
04 APRIL	36466	69.9	2.66	4.8	13983	70.0	1.02	5.8
05 MAY	21720	24.0	1.35	18.1	9814	26.4	0.61	21.0
06 JUNE	18379	23.1	1.93	9.6	8761	23.3	0.92	9.9
07 JULY	28442	65.6	1.61	36.1	3180	74.8	0.18	49.0
08 AUGUST	16690	63.2	1.01	17.6	3305	74.0	0.20	38.0
09 SEPTEMBER	4493	74.2	0.52	13.0	1296	72.5	0.15	0.7
10 OCTOBER	12890	23.3	1.54	19.0	4771	14.9	0.57	6.8
11 NOVEMBER	4116	51.7	0.97	28.8	1570	58.1	0.37	37.6
12 DECEMBER	2106	51.2	0.97	17.0	934	52.2	0.43	19.2
TOTAL	**153120**				**49747**			

SUMMARY OF SPECIES CATCH STATISTICS - 2009

LAKE=BARKLEY

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
BLUE CATFISH	12001	52.5	7.8	12001	11413	53.5	22.9	11413	4.9	2.24	173
CHANNEL CATFISH	1011	221.2	0.7	1011	1011	221.2	2.0	1011	0.0	2.26	22
WHITE BASS	1091	238.5	0.7	1004	528	256.3	1.1	528	51.6	0.58	13
YELLOW BASS	10026	52.0	6.5	539	0	.	0.0	0	100.0	.	0
STRIPED BASS	44	.	0.0	0	0	.	0.0	0	100.0	.	0
BLUEGILL	13472	43.6	8.8	12023	8401	42.9	16.9	8401	37.6	0.22	114
REDEAR SUNFISH	1098	215.5	0.7	1098	882	234.2	1.8	882	19.7	0.42	15
COOSA BASS	25	.	0.0	0	0	.	0.0	0	100.0	.	0
SMALLMOUTH BASS	206	765.0	0.1	206	78	560.2	0.2	78	62.1	2.60	1
LARGEMOUTH BASS	65632	30.2	42.8	61946	551	81.8	1.1	522	99.2	2.14	13
WHITE CRAPPIE	26091	35.1	17.0	26091	14355	44.6	28.9	14355	45.0	0.69	239
BLACK CRAPPIE	21000	39.0	13.7	21000	12530	47.9	25.2	12530	40.3	0.86	230
FRESHWATER DRUM	1589	289.2	1.0	154	0	.	0.0	0	100.0	.	0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2009

LAKE=BARKLEY

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	21838	24.6	3543	21.5	0.88	40.8	0.83	41.0	42
WHITE BASS	551	94.7	94	0.5	2.24		1.86		3
ANY SUNFISH	2645	46.7	398	2.6	5.97	8.2	3.80	8.8	5
ANY BLACK BASS	44845	21.5	7228	44.3	1.63	19.3	0.16	32.5	120
ANY CRAPPIE	25720	26.6	4142	25.4	2.60	29.4	1.46	30.9	75
ANY SPECIES	5739	35.6	911	5.7	0.94	75.9	0.53	84.6	9
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TOTAL	**101338**		**16316**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2009

LAKE=BARKLEY

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	BLUE CATFISH	0.81	0.76
	CHANNEL CATFISH	0.07	0.07
ANY SUNFISH			
	BLUEGILL	5.47	3.44
	REDEAR SUNFISH	0.50	0.36
ANY BLACK BASS			
	COOSA BASS	0.00	0.00
	SMALLMOUTH BASS	0.00	0.00
	LARGEMOUTH BASS	1.38	0.01
ANY CRAPPIE			
	WHITE CRAPPIE	1.44	0.78
	BLACK CRAPPIE	1.16	0.68

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=BARKLEY

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
02 FEBRUARY	0		0	0.27	2
03 MARCH	0		0	1.71	6
04 APRIL	37	1.35	4	1.64	6
05 MAY	60	2.33	7	1.95	4
06 JUNE	0		0	1.41	10
07 JULY	0		0	1.71	22
08 AUGUST	33	2.09	3	1.23	17
09 SEPTEMBER	47	2.00	3	1.24	8
10 OCTOBER	8	1.15	1	1.13	11
11 NOVEMBER	45	1.52	3	1.66	8
12 DECEMBER	0		0	1.71	5

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2009

LAKE=BARKLEY

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	46430	23880	70310	41
WHITE BASS	1490	300	890	2
ANY SUNFISH	7610	4570	11340	5
ANY BLACK BASS	266910	174630	441540	120
ANY CRAPPIE	65980	45120	111100	75
ANY SPECIES	11590	6630	18220	9
TOTAL	**400010**	**255130**	**653400**	**252**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2009

LAKE=BARKLEY

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	500	100

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
MONTGOMERY	216	43.4
ROBERTSON	44	8.8
STEWART	207	41.6
OTHERS IN TN	31	6.2

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	278	55.6
B) 26-100	222	44.4

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	256	100

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	247	96.5
B) 2-5	9	3.5

PICKWICK

RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2009

LAKE=PICKWICK

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	2998	49.0	0.5	521	0.1	2.4
02 FEBRUARY	1882	.	0.3	.	.	1.5
04 APRIL	26269	5.1	4.3	4090	0.7	21.2
05 MAY	27565	.	4.5	3999	0.6	22.3
06 JUNE	16214	27.9	2.6	2658	0.4	13.1
07 JULY	18710	1.3	3.0	3075	0.5	15.1
08 AUGUST	9106	46.5	1.5	1457	0.2	7.4
09 SEPTEMBER	8266	50.4	1.3	1350	0.2	6.7
10 OCTOBER	7339	15.0	1.2	1135	0.2	5.9
11 NOVEMBER	3957	21.6	0.6	617	0.1	3.2
12 DECEMBER	1377	31.0	0.2	247	0.0	1.1
TOTAL	**123683**			**19149**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2009

LAKE=PICKWICK

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	779	51.6	0.26	14.2	240	119.9	0.08	100.0
04 APRIL	28633	22.8	1.09	22.2	3940	60.7	0.15	61.3
05 MAY	37213	.	1.35	.	10199	.	0.37	.
06 JUNE	36806	.	2.27	.	7621	.	0.47	.
07 JULY	13658	5.0	0.73	4.9	3181	31.7	0.17	30.9
08 AUGUST	8742	.	0.96	.	728	.	0.08	.
09 SEPTEMBER	2149	65.9	0.26	37.7	579	76.8	0.07	52.1
10 OCTOBER	6385	17.8	0.87	9.5	807	16.1	0.11	6.0
11 NOVEMBER	1425	23.7	0.36	9.5	435	69.7	0.11	66.4
12 DECEMBER	1129	.	0.82	.	523	.	0.38	.
TOTAL	**136919**				**28253**			

SUMMARY OF SPECIES CATCH STATISTICS - 2009

LAKE=PICKWICK

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
BLUE CATFISH	22530	11.2	16.4	22530	15293	10.1	54.1	15293	32.1	4.40	122
CHANNEL CATFISH	8180	33.3	6.0	8180	4953	43.0	17.5	4953	39.4	3.02	21
BLUEGILL	42563	19.6	31.0	42563	4085	30.4	14.5	4085	90.4	0.25	15
SMALLMOUTH BASS	1533	237.6	1.1	1533	17	360.3	0.1	17	98.9	4.20	1
SPOTTED BASS	4080	108.1	3.0	3672	0	.	0.0	0	100.0	.	0
LARGEMOUTH BASS	52029	11.1	37.9	51013	1082	32.4	3.8	1082	97.9	2.04	4
WHITE CRAPPIE	5736	89.8	4.2	5736	2558	75.9	9.1	2558	55.4	0.64	67

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2009

LAKE=PICKWICK

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	45576	14.2	7231	37.4	0.64	20.7	0.46	28.0	42
ANY SUNFISH	4760	60.6	765	3.9	6.42	0.0	1.02	108.9	3
ANY BLACK BASS	47263	12.2	7394	38.8	0.98	19.8	0.08	92.0	66
LARGEMOUTH BASS	835		121	0.7	0.00		0.00		1
ANY CRAPPIE	7964	41.2	1265	6.5	0.88	43.8	0.67	41.9	7
ANY SPECIES	15404	22.6	2370	12.6	2.39	10.0	0.22	197.5	6
TOTAL	**121802**		**19146**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2009

LAKE=PICKWICK

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.47	0.35
	CHANNEL CATFISH	0.17	0.11
ANY SUNFISH			
	BLUEGILL	6.42	1.02
ANY BLACK BASS			
	SMALLMOUTH BASS	0.03	0.00
	SPOTTED BASS	0.08	0.00
	LARGEMOUTH BASS	1.06	0.02
ANY CRAPPIE			
	WHITE CRAPPIE	0.88	0.67

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=PICKWICK

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.53	6
04 APRIL	2	0.00	1	0.86	6
05 MAY	31	1.25	4	0.70	4
06 JUNE	89	1.38	2	2.00	1
07 JULY	45	0.79	3	1.06	6
08 AUGUST	0		0	1.57	4
09 SEPTEMBER	48	1.55	5	0.63	3
10 OCTOBER	0		0	1.03	10
11 NOVEMBER	0		0	0.91	8
12 DECEMBER	0		0	0.75	4

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2009

LAKE=PICKWICK

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	75150	13620	88770	42
ANY SUNFISH	2620	8660	11280	3
ANY BLACK BASS	358970	910	359890	65
LARGEMOUTH BASS	8480	0	8480	1
ANY CRAPPIE	10750	3640	14380	7
ANY SPECIES	36750	18590	55340	6
TOTAL	**492720**	**45420**	**538140**	**124**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2009

LAKE=PICKWICK

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
MS	110	42.6
TN	148	57.4

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
FAYETTE	8	5.4
HARDEMAN	21	14.2
HARDIN	35	23.6
MADISON	18	12.2
SHELBY	35	23.6
OTHERS IN TN	31	20.9

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	155	60.1
B) 26-100	93	36.0
C) 101-250	10	3.9

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	105	84.0
B) VACATION	7	5.6
C) BUSINESS	13	10.4

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	110	88
B) 2-5	15	12

REELFOOT
RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2009

LAKE=REELFOOT

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
02 FEBRUARY	6853	25.7	0.7	1107	0.1	1.6
03 MARCH	78030	21.8	7.5	10400	1.0	18.2
04 APRIL	147761	12.0	14.2	18429	1.8	34.4
05 MAY	143355	15.0	13.7	17435	1.7	33.4
06 JUNE	16580	21.5	1.6	2297	0.2	3.9
07 JULY	10070	26.7	1.0	1899	0.2	2.3
08 AUGUST	2448	40.9	0.2	456	0.0	0.6
09 SEPTEMBER	8334	50.2	0.8	1212	0.1	1.9
10 OCTOBER	12568	26.7	1.2	1916	0.2	2.9
11 NOVEMBER	3687	47.2	0.4	452	0.0	0.9
TOTAL	**429686**			**55603**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2009

LAKE=REELFOOT

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
02 FEBRUARY	12198	36.7	1.78	25.4	8703	38.3	1.27	27.5
03 MARCH	139674	27.3	1.79	16.0	100659	27.7	1.29	16.7
04 APRIL	193567	18.6	1.31	14.2	125597	18.7	0.85	14.1
05 MAY	339751	18.1	2.37	10.1	233669	18.2	1.63	10.3
06 JUNE	25367	30.4	1.53	21.0	17575	34.0	1.06	25.8
07 JULY	7250	37.5	0.72	25.5	4229	36.5	0.42	24.1
08 AUGUST	1738	56.4	0.71	35.6	930	75.0	0.38	58.6
09 SEPTEMBER	9667	55.8	1.16	21.8	5084	60.6	0.61	30.1
10 OCTOBER	21617	39.3	1.72	27.9	13448	41.8	1.07	31.2
11 NOVEMBER	11946	51.8	3.24	19.3	6489	48.3	1.76	9.5
TOTAL	**762775**				**516383**			

SUMMARY OF SPECIES CATCH STATISTICS - 2009

LAKE=REELFOOT

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
ANY GAR	194	2382.6	0.0	0	0	.	0.0	0	100.0	.	0
BOWFIN	95	2699.8	0.0	0	0	.	0.0	0	100.0	.	0
CHANNEL CATFISH	17222	50.4	2.3	4819	14247	58.5	2.8	3735	17.3	2.69	206
YELLOW BASS	21623	37.6	2.8	2299	10883	63.5	2.1	1605	49.7	0.37	156
WARMOUTH	2194	231.9	0.3	2194	230	905.0	0.0	230	89.5	0.36	4
BLUEGILL	239105	14.5	31.4	232919	187459	17.5	36.3	182796	21.6	0.42	2613
SMALLMOUTH BASS	78	5544.7	0.0	78	78	5544.7	0.0	78	0.0	1.00	1
LARGEMOUTH BASS	23938	35.2	3.1	23287	1914	152.4	0.4	1801	92.0	2.89	34
WHITE CRAPPIE	433629	9.5	57.0	427158	295290	12.7	57.2	291124	31.9	0.70	3898
BLACK CRAPPIE	9427	153.7	1.2	9062	6043	218.7	1.2	5688	35.9	0.77	85
FRESHWATER DRUM	13743	57.3	1.8	263	163	802.0	0.0	0	98.8	1.38	2

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2009

LAKE=REELFOOT

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	3710	32.3	530	0.9	1.22	69.5	1.03	76.5	10
ANY SUNFISH	95626	13.5	11984	22.3	2.21	6.6	1.79	6.6	200
ANY BLACK BASS	43848	12.0	5809	10.2	0.48	16.6	0.05	67.3	142
ANY CRAPPIE	270294	8.8	35121	62.9	1.49	8.2	1.05	7.8	647
ANY SPECIES	16206	19.2	2159	3.8	0.47	74.4	0.36	80.1	39
TOTAL	**429684**		**55603**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2009

LAKE=REELFOOT

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	CHANNEL CATFISH	1.22	1.03
ANY SUNFISH			
	WARMOUTH	0.02	0.00
	BLUEGILL	2.19	1.79
ANY BLACK BASS			
	SMALLMOUTH BASS	0.00	0.00
	LARGEMOUTH BASS	0.53	0.04
ANY CRAPPIE			
	ANY CRAPPIE	0.00	0.00
	WHITE CRAPPIE	1.46	1.03
	BLACK CRAPPIE	0.03	0.02

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=REELFOOT

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
02 FEBRUARY	0		0	0.00	3
03 MARCH	0		0	0.55	9
04 APRIL	0		0	0.47	48
05 MAY	0		0	0.54	35
06 JUNE	0		0	0.41	9
07 JULY	0		0	0.28	14
08 AUGUST	0		0	0.71	10
09 SEPTEMBER	0		0	0.69	6
10 OCTOBER	0		0	0.14	6
11 NOVEMBER	0		0	0.38	2

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS
FOR INTENDED SPECIES - 2009

LAKE=REELFOOT

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	13630	3450	15940	10
ANY SUNFISH	456420	114020	570430	199
ANY BLACK BASS	100400	33040	133440	142
ANY CRAPPIE	1220700	323320	1544030	646
ANY SPECIES	101650	24780	126430	39
TOTAL	**1892800**	**498610**	**2390270**	**1036**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2009

LAKE=REELFOOT

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
IL	289	15.5
IN	148	7.9
KY	139	7.5
MO	214	11.5
OH	173	9.3
TN	797	42.8
OTHERS	104	5.6

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
DYER	165	20.9
LAKE	98	12.4
OBION	361	45.8
OTHERS IN TN	165	20.9

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	455	24.4
B) 26-100	494	26.5
C) 101-250	225	12.1
D) > 250	690	37.0

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	1042	100

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	592	56.8
B) 2-5	371	35.6
C) 6-10	75	7.2
D) 11-15	2	0.2
F) >20	2	0.2

TWRA

REGION II

WOODS

RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2009

LAKE=WOODS

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	469	41.9	0.1	127	0.0	0.8
02 FEBRUARY	6442	43.2	1.8	1176	0.3	11.5
03 MARCH	4677	37.1	1.3	883	0.2	8.4
04 APRIL	12943	31.9	3.5	2138	0.6	23.2
05 MAY	7476	26.8	2.0	1665	0.5	13.4
06 JUNE	5197	13.5	1.4	1254	0.3	9.3
07 JULY	9303	23.4	2.5	2399	0.7	16.7
08 AUGUST	2704	29.5	0.7	679	0.2	4.8
09 SEPTEMBER	854	27.3	0.2	311	0.1	1.5
10 OCTOBER	3139	55.6	0.9	603	0.2	5.6
11 NOVEMBER	2177	36.6	0.6	565	0.2	3.9
12 DECEMBER	480	33.7	0.1	114	0.0	0.9
TOTAL	**55861**			**11914**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2009

LAKE=WOODS

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	169	70.2	0.36	52.5	75	84.3	0.16	68.9
02 FEBRUARY	644	.	0.10	.	193	.	0.03	.
03 MARCH	5799	39.2	1.24	11.8	1543	57.4	0.33	41.1
04 APRIL	12166	33.9	0.94	11.0	3495	71.8	0.27	61.4
05 MAY	11064	36.8	1.48	24.4	3663	59.3	0.49	51.2
06 JUNE	5925	18.5	1.14	12.4	2339	48.0	0.45	45.2
07 JULY	5117	31.6	0.55	20.5	2512	50.8	0.27	44.3
08 AUGUST	3028	64.4	1.12	54.8	568	67.9	0.21	58.6
09 SEPTEMBER	623	73.1	0.73	65.3	145	27.3	0.17	0.0
10 OCTOBER	6278	82.3	2.00	53.1	1318	98.4	0.42	70.2
11 NOVEMBER	2961	60.4	1.36	45.0	414	89.2	0.19	77.1
12 DECEMBER	101	48.9	0.21	33.2	0	.	0.00	.
TOTAL	**53875**				**16265**			

SUMMARY OF SPECIES CATCH STATISTICS - 2009

LAKE=WOODS

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CARP	34	1201.8	0.1	0	22	1485.8	0.1	0	35.3	6.24	1
BLUE CATFISH	156	396.4	0.3	35	156	396.4	1.0	35	0.0	3.66	9
CHANNEL CATFISH	2622	54.3	4.9	2025	1912	55.7	11.8	1561	27.1	1.86	60
FLATHEAD CATFISH	69	717.9	0.1	23	69	717.9	0.4	23	0.0	17.02	3
WHITE BASS	2136	107.8	4.0	1020	316	257.6	1.9	211	85.2	1.15	18
STRIPED BASS	267	392.7	0.5	134	22	1151.7	0.1	0	91.8	0.88	1
WARMOUTH	51	688.6	0.1	17	22	859.1	0.1	22	56.9	0.55	1
BLUEGILL	6732	40.1	12.5	3294	2979	53.1	18.3	2303	55.7	0.32	141
REDEAR SUNFISH	84	624.6	0.2	0	61	661.8	0.4	0	27.4	0.59	4
COOSA BASS	371	478.8	0.7	371	0	.	0.0	0	100.0	.	0
SMALLMOUTH BASS	347	302.2	0.6	315	22	815.1	0.1	22	93.7	2.58	1
SPOTTED BASS	159	375.7	0.3	129	14	427.4	0.1	0	91.2	0.78	2
LARGEMOUTH BASS	27973	16.8	51.8	27634	4617	37.3	28.4	4570	83.5	1.03	392
WHITE CRAPPIE	5667	32.7	10.5	5376	2361	51.2	14.5	2296	58.3	0.90	182
BLACK CRAPPIE	5472	46.5	10.1	5164	2660	46.0	16.4	2443	51.4	0.83	172
BLACKNOSE CRAPPIE	1640	81.0	3.0	1317	926	95.1	5.7	819	43.5	0.86	78

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2009

LAKE=WOODS

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	2241	34.0	567	4.0	0.59	47.8	0.47	59.1	12
WHITE BASS	145	101.2	32	0.3	6.29		1.71		1
STRIPED BASS	28	148.1	5	0.1	0.33		0.00		1
ANY SUNFISH	166	82.4	42	0.3	2.00		2.00		1
ANY BLACK BASS	32425	13.0	6891	58.0	0.68	21.4	0.14	62.1	256
LARGEMOUTH BASS	982	38.6	250	1.8	0.64	49.2	0.05	221.2	10
ANY CRAPPIE	16605	16.5	3376	29.7	0.60	33.0	0.34	41.1	144
ANY SPECIES	3272	24.9	749	5.9	1.74	67.1	0.71	146.2	25
TOTAL	**55864**		**11912**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2009

LAKE=WOODS

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	BLUE CATFISH	0.01	0.01
	CHANNEL CATFISH	0.57	0.45
	FLATHEAD CATFISH	0.01	0.01
ANY SUNFISH			
	ANY SUNFISH	0.00	0.00
	WARMOUTH	0.01	0.02
	BLUEGILL	1.99	1.98
	REDEAR SUNFISH	0.00	0.00
ANY BLACK BASS			
	ANY BLACK BASS	0.00	0.00
	COOSA BASS	0.01	0.00
	SMALLMOUTH BASS	0.01	0.00
	SPOTTED BASS	0.00	0.00
	LARGEMOUTH BASS	0.83	0.14
ANY CRAPPIE			
	WHITE CRAPPIE	0.27	0.14
	BLACK CRAPPIE	0.26	0.15
	BLACKNOSE CRAPPIE	0.07	0.05

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=WOODS

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.97	8
02 FEBRUARY	66	0.10	21	0.11	12
03 MARCH	1	0.83	1	1.38	41
04 APRIL	56	0.21	13	1.29	22
05 MAY	0		0	1.24	32
06 JUNE	0		0	0.85	27
07 JULY	0		0	0.32	22
08 AUGUST	12	1.13	2	0.61	20
09 SEPTEMBER	0		0	0.46	5
10 OCTOBER	41	1.42	11	0.86	15
11 NOVEMBER	0		0	0.93	11
12 DECEMBER	0		0	0.30	3

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2009

LAKE=WOODS

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	8660	0	8660	1
ANY BLACK BASS	92990	111770	204760	31
LARGEMOUTH BASS	1570	1650	3220	4
ANY CRAPPIE	32650	34930	67580	17
ANY SPECIES	1740	1530	3270	3
TOTAL	**137610**	**149880**	**287490**	**56**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2009

LAKE=WOODS

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	101	98.1
OTHERS	2	1.9

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BEDFORD	6	6.2
COFFEE	23	23.7
FRANKLIN	52	53.6
OTHERS IN TN	16	16.5

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	91	88.3
B) 26-100	12	11.7

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	56	100

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	56	100

NORMANDY

RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2009

LAKE=NORMANDY

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	1456	71.0	0.5	275	0.1	3.4
02 FEBRUARY	2883	32.2	0.9	586	0.2	6.7
03 MARCH	3179	37.1	1.0	650	0.2	7.3
04 APRIL	1817	35.1	0.6	467	0.2	4.2
05 MAY	3654	37.5	1.2	745	0.2	8.4
06 JUNE	3137	22.4	1.0	640	0.2	7.2
07 JULY	4469	25.5	1.5	910	0.3	10.3
08 AUGUST	8064	17.8	2.6	1544	0.5	18.6
09 SEPTEMBER	6336	19.2	2.1	1078	0.4	14.6
10 OCTOBER	2510	37.6	0.8	470	0.2	5.8
11 NOVEMBER	4059	17.7	1.3	843	0.3	9.4
12 DECEMBER	1752	28.6	0.6	353	0.1	4.0
TOTAL	**43316**			**8561**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2009

LAKE=NORMANDY

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	248	77.7	0.17	26.0	58	113.6	0.04	71.3
02 FEBRUARY	1932	48.2	0.67	34.3	58	55.8	0.02	48.3
03 MARCH	985	49.6	0.31	30.5	413	84.7	0.13	73.1
04 APRIL	2489	60.1	1.37	45.9	91	55.8	0.05	42.8
05 MAY	2704	48.0	0.74	28.0	512	63.6	0.14	48.3
06 JUNE	4015	34.8	1.28	26.0	1129	40.2	0.36	32.1
07 JULY	3575	29.9	0.80	15.0	1296	49.0	0.29	40.8
08 AUGUST	4758	24.5	0.59	16.6	2339	38.2	0.29	33.3
09 SEPTEMBER	3231	21.0	0.51	8.4	1837	24.8	0.29	15.4
10 OCTOBER	2058	39.5	0.82	11.4	678	43.4	0.27	20.6
11 NOVEMBER	2922	27.2	0.72	20.4	1624	31.0	0.40	24.8
12 DECEMBER	648	31.3	0.37	12.2	123	55.4	0.07	48.4
TOTAL	**29565**				**10158**			

SUMMARY OF SPECIES CATCH STATISTICS - 2009

LAKE=NORMANDY

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CARP	33	747.1	0.1	8	0	.	0.0	0	100.0	.	0
BLUE CATFISH	51	532.4	0.2	41	51	532.4	0.5	41	0.0	5.19	5
CHANNEL CATFISH	1251	47.9	4.2	950	631	67.2	6.2	457	49.6	2.61	58
FLATHEAD CATFISH	240	159.8	0.8	228	240	159.8	2.4	228	0.0	5.68	20
RAINBOW TROUT	17	1380.6	0.1	0	0	.	0.0	0	100.0	.	0
ROCK BASS	95	307.4	0.3	0	74	339.2	0.7	0	22.1	0.97	5
WARMOUTH	17	1426.7	0.1	0	0	.	0.0	0	100.0	.	0
BLUEGILL	3953	34.1	13.4	2759	749	56.4	7.4	738	81.1	0.25	68
LONGEAR SUNFISH	19	1012.0	0.1	19	19	1012.0	0.2	19	0.0	0.12	2
REDEAR SUNFISH	12	1466.7	0.0	0	0	.	0.0	0	100.0	.	0
SMALLMOUTH BASS	411	148.7	1.4	389	62	213.5	0.6	44	84.9	2.70	7
SPOTTED BASS	6263	16.3	21.2	5309	1549	27.1	15.2	1376	75.3	1.31	161
LARGEMOUTH BASS	3176	25.6	10.7	2893	408	54.6	4.0	372	87.2	2.98	45
WHITE CRAPPIE	407	141.0	1.4	379	266	162.5	2.6	236	34.6	1.02	27
BLACK CRAPPIE	1130	80.4	3.8	1130	360	123.8	3.5	360	68.1	0.97	33
BLACKNOSE CRAPPIE	10537	15.9	35.6	10210	5562	17.4	54.7	5392	47.2	1.01	522
YELLOW PERCH	8	1365.8	0.0	0	0	.	0.0	0	100.0	.	0
WALLEYE	856	80.0	2.9	571	189	148.0	1.9	126	77.9	2.33	15
SAUGEYE	37	819.8	0.1	0	0	.	0.0	0	100.0	.	0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2009

LAKE=NORMANDY

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	1825	26.2	357	4.2	0.45	79.3	0.30	79.8	14
ANY SUNFISH	520	49.4	99	1.2	3.45	35.4	2.41	84.0	5
ANY BLACK BASS	17973	10.6	3572	41.5	0.38	26.6	0.08	62.7	247
SPOTTED BASS	790	35.4	160	1.8	0.88	65.6	0.51	39.1	10
LARGEMOUTH BASS	866	34.1	167	2.0	0.12	48.6	0.02	72.5	13
ANY CRAPPIE	14795	10.3	2911	34.2	0.74	34.2	0.38	37.6	172
WALLEYE	1717	27.0	326	4.0	0.37	75.0	0.07	136.4	17
ANY SPECIES	4834	16.8	966	11.2	0.64	41.4	0.10	64.1	47
TOTAL	**43320**		**8558**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2009

LAKE=NORMANDY

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	BLUE CATFISH	0.02	0.02
	CHANNEL CATFISH	0.35	0.19
	FLATHEAD CATFISH	0.08	0.09
ANY SUNFISH			
	ANY SUNFISH	0.00	0.00
	WARMOUTH	0.00	0.00
	BLUEGILL	3.43	2.35
	LONGEAR SUNFISH	0.02	0.06
	REDEAR SUNFISH	0.00	0.00
ANY BLACK BASS			
	ANY BLACK BASS	0.00	0.00
	SMALLMOUTH BASS	0.02	0.00
	SPOTTED BASS	0.27	0.07
	LARGEMOUTH BASS	0.15	0.02
ANY CRAPPIE			
	ANY CRAPPIE	0.00	0.00
	WHITE CRAPPIE	0.02	0.01
	BLACK CRAPPIE	0.07	0.02
	BLACKNOSE CRAPPIE	0.64	0.34

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=NORMANDY

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	47	0.29	8	0.22	12
02 FEBRUARY	4	0.33	2	0.28	47
03 MARCH	17	0.49	5	0.22	25
04 APRIL	0		0	0.18	14
05 MAY	12	0.80	3	0.27	20
06 JUNE	17	0.68	5	0.59	18
07 JULY	10	0.33	2	0.59	19
08 AUGUST	0		0	0.30	27
09 SEPTEMBER	0		0	0.36	17
10 OCTOBER	0		0	0.53	17
11 NOVEMBER	0		0	0.67	21
12 DECEMBER	0		0	0.35	8

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2009

LAKE=NORMANDY

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY SUNFISH	490	680	1170	2
ANY BLACK BASS	44850	87530	132380	42
SPOTTED BASS	1470	2650	4120	3
LARGEMOUTH BASS	2650	3000	5650	4
ANY CRAPPIE	39620	72220	111840	37
WALLEYE	290	690	980	1
ANY SPECIES	4750	4960	9710	5
TOTAL	**94120**	**171730**	**265850**	**94**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2009

LAKE=NORMANDY

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	158	98.8
OTHERS	2	1.3

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BEDFORD	39	25.0
COFFEE	47	30.1
FRANKLIN	31	19.9
MAURY	11	7.1
OTHERS IN TN	26	16.7
OUT-OF-STATE	2	1.3

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	134	83.8
B) 26-100	25	15.6
C) 101-250	1	0.6

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	95	100

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	93	100

J. PERCY PRIEST RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2009

LAKE=PERCY PRIEST

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	12858	.	0.9	3729	0.3	1.9
02 FEBRUARY	52670	18.9	3.7	11083	0.8	7.7
03 MARCH	54385	15.9	3.8	11171	0.8	7.9
04 APRIL	57939	23.8	4.1	12822	0.9	8.4
05 MAY	73093	11.2	5.1	14841	1.0	10.6
06 JUNE	81257	3.1	5.7	17061	1.2	11.8
07 JULY	123594	27.8	8.7	28342	2.0	18.0
08 AUGUST	66126	31.3	4.7	15656	1.1	9.6
09 SEPTEMBER	58560	12.4	4.1	12188	0.9	8.5
10 OCTOBER	52847	19.2	3.7	11352	0.8	7.7
11 NOVEMBER	39249	21.6	2.8	8448	0.6	5.7
12 DECEMBER	14751	12.1	1.0	3030	0.2	2.1
TOTAL	**687329**			**149723**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2009

LAKE=PERCY PRIEST

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	30216	.	2.35	.	14272	.	1.11	.
02 FEBRUARY	94806	27.3	1.80	19.3	33182	46.7	0.63	41.8
03 MARCH	59824	20.4	1.10	12.7	20122	18.5	0.37	9.2
04 APRIL	68947	34.0	1.19	23.6	21437	37.6	0.37	28.5
05 MAY	77479	28.5	1.06	26.1	27044	47.6	0.37	45.9
06 JUNE	78007	9.9	0.96	9.4	18689	27.9	0.23	27.9
07 JULY	154493	34.9	1.25	20.1	45730	30.1	0.37	11.1
08 AUGUST	83319	37.8	1.26	20.2	21822	37.0	0.33	19.2
09 SEPTEMBER	89011	18.0	1.52	12.9	25766	17.4	0.44	12.1
10 OCTOBER	86141	28.6	1.63	20.8	25367	29.0	0.48	21.4
11 NOVEMBER	63191	24.5	1.61	11.3	20802	29.6	0.53	19.9
12 DECEMBER	20946	18.8	1.42	14.3	8998	19.1	0.61	14.8
TOTAL	**906380**				**283231**			

SUMMARY OF SPECIES CATCH STATISTICS - 2009

LAKE=PERCY PRIEST

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CARP	459	1417.5	0.1	0	0	.	0.0	0	100.0	.	0
ANY BUFFALO	78	2925.8	0.0	0	0	.	0.0	0	100.0	.	0
BLUE CATFISH	203	1140.0	0.0	203	203	1140.0	0.1	203	0.0	6.58	2
CHANNEL CATFISH	28103	33.8	3.1	18862	20547	33.1	7.3	14955	26.9	1.92	158
FLATHEAD CATFISH	3778	180.8	0.4	2159	2320	198.7	0.8	1740	38.6	9.18	20
WHITE BASS	68917	22.3	7.6	28583	17650	29.1	6.2	12366	74.4	0.91	167
YELLOW BASS	96537	23.2	10.6	33007	31266	22.9	11.0	18341	67.6	0.40	254
STRIPED BASS	11712	126.1	1.3	7885	2944	168.9	1.0	2141	74.9	8.23	22
CHEROKEE BASS	41970	34.4	4.6	21036	14278	45.5	5.0	8482	66.0	5.03	101
GREEN SUNFISH	5909	153.5	0.7	5170	5673	156.1	2.0	5043	4.0	0.18	45
WARMOUTH	814	503.9	0.1	724	715	432.7	0.3	715	12.2	0.15	8
ORANGE SPOTTED SUNFISH	1190	778.0	0.1	0	0	.	0.0	0	100.0	.	0
BLUEGILL	89685	19.8	9.9	57216	31748	28.5	11.2	28123	64.6	0.28	254
LONGEAR SUNFISH	2834	301.4	0.3	2007	1756	279.5	0.6	1427	38.0	0.18	16
REDEAR SUNFISH	165	1644.9	0.0	83	87	1688.6	0.0	87	47.3	0.50	1
SMALLMOUTH BASS	23991	47.7	2.6	6020	1166	197.7	0.4	359	95.1	2.70	13
SPOTTED BASS	19697	53.7	2.2	1530	3680	77.0	1.3	657	81.3	0.91	28
LARGEMOUTH BASS	207179	11.0	22.8	172472	11479	25.4	4.1	10321	94.5	2.66	109
WHITE CRAPPIE	208018	11.1	22.9	201783	86586	14.9	30.6	84857	58.4	0.76	701
BLACK CRAPPIE	90014	20.0	9.9	89085	50353	21.2	17.8	49917	44.1	0.79	462
BLACKNOSE CRAPPIE	228	1516.5	0.0	228	0	.	0.0	0	100.0	.	0
FRESHWATER DRUM	6264	111.9	0.7	1566	605	424.6	0.2	403	90.3	1.75	6

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2009

LAKE=PERCY PRIEST

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	45250	14.2	10075	6.6	0.24	43.2	0.19	55.0	106
WHITE BASS	16613	18.6	3713	2.4	0.76	46.8	0.24	72.0	49
YELLOW BASS	357		104	0.1	10.00		7.00		1
STRIPED BASS	28263	15.5	6144	4.1	0.17	109.1	0.03	81.5	57
CHEROKEE BASS	34072	13.7	7293	5.0	0.48	80.5	0.18	52.9	76
ANY SUNFISH	19267	17.7	4185	2.8	1.66	56.7	0.97	54.5	51
SMALLMOUTH BASS	8434	23.0	1856	1.2	0.33	58.5	0.01	195.8	32
SPOTTED BASS	714		207	0.1	0.00		0.00		1
LARGEMOUTH BASS	214157	7.7	46488	31.2	0.61	22.3	0.03	46.0	595
ANY CRAPPIE	164874	7.5	35657	24.0	1.56	24.5	0.63	23.0	463
ANY SPECIES	154907	9.5	33912	22.5	0.80	29.8	0.31	39.2	366
OTHER	417	77.1	87	0.1	0.00		0.00		2
TOTAL	**687325**		**149721**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2009

LAKE=PERCY PRIEST

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.00	0.00
	CHANNEL CATFISH	0.21	0.17
	FLATHEAD CATFISH	0.02	0.02
YELLOW BASS			
ANY SUNFISH			
	GREEN SUNFISH	0.13	0.14
	WARMOUTH	0.02	0.02
	ORANGE SPOTTED SUNFISH	0.00	0.00
	BLUEGILL	1.46	0.77
	LONGEAR SUNFISH	0.05	0.04
	REDEAR SUNFISH	0.00	0.00
ANY BLACK BASS			
	SMALLMOUTH BASS	0.03	0.00
	SPOTTED BASS	0.01	0.00
	LARGEMOUTH BASS	0.77	0.05
ANY CRAPPIE			
	ANY CRAPPIE	0.00	0.00
	WHITE CRAPPIE	1.08	0.40
	BLACK CRAPPIE	0.48	0.23
	BLACKNOSE CRAPPIE	0.00	0.00

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=PERCY PRIEST

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	93	0.05	6	0.00	2
02 FEBRUARY	59	0.19	13	0.46	25
03 MARCH	26	1.47	6	0.43	31
04 APRIL	9	0.92	3	0.89	31
05 MAY	5	0.88	3	0.73	73
06 JUNE	23	0.48	15	0.60	98
07 JULY	6	0.10	3	0.64	53
08 AUGUST	0	0.00	1	0.43	68
09 SEPTEMBER	22	0.39	17	0.63	86
10 OCTOBER	9	0.63	3	1.01	35
11 NOVEMBER	58	0.53	15	0.62	27
12 DECEMBER	58	0.43	5	0.28	9

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2009

LAKE=PERCY PRIEST

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	123520	54460	177980	35
WHITE BASS	41740	19070	60810	20
STRIPED BASS	70800	42170	112980	17
CHEROKEE BASS	119300	21750	141050	26
ANY SUNFISH	33560	23950	57500	10
SMALLMOUTH BASS	29260	16970	46230	18
LARGEMOUTH BASS	777530	484790	1262310	103
ANY CRAPPIE	354120	92650	446770	79
ANY SPECIES	318040	82840	400880	33
TOTAL	**1867870**	**838650**	**2706510**	**341**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2009

LAKE=PERCY PRIEST

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	597	95.7
OTHERS	27	4.3

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
DAVIDSON	137	23.1
RUTHERFORD	284	47.8
WILLIAMSON	53	8.9
WILSON	60	10.1
OTHERS IN TN	58	9.8
OUT-OF-STATE	2	0.3

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	477	77.1
B) 26-100	120	19.4
C) 101-250	4	0.6
D) > 250	18	2.9

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	343	99.7
D) OTHER	1	0.3

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
	1	
A) 1	334	97.4
B) 2-5	6	1.7
C) 6-10	3	0.9

OLD HICKORY RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2009

LAKE=OLD HICKORY

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	34002	50.6	1.5	7607	0.3	3.8
02 FEBRUARY	48940	27.9	2.2	12409	0.6	5.5
03 MARCH	98307	31.8	4.4	21650	1.0	11.0
04 APRIL	76334	25.1	3.4	15693	0.7	8.5
05 MAY	75449	24.9	3.4	14819	0.7	8.4
06 JUNE	152395	17.4	6.8	31482	1.4	17.1
07 JULY	53207	23.0	2.4	9911	0.4	6.0
08 AUGUST	151460	16.8	6.7	30630	1.4	16.9
09 SEPTEMBER	50815	39.3	2.3	9944	0.4	5.7
10 OCTOBER	55789	23.4	2.5	12208	0.5	6.2
11 NOVEMBER	88019	27.8	3.9	19265	0.9	9.8
12 DECEMBER	9007	37.3	0.4	1970	0.1	1.0
TOTAL	**893724**			**187588**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2009

LAKE=OLD HICKORY

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	38762	53.6	1.14	16.0	12241	65.3	0.36	36.6
02 FEBRUARY	42088	39.3	0.86	26.6	16640	47.4	0.34	36.6
03 MARCH	167122	35.8	1.70	15.6	42272	39.8	0.43	23.1
04 APRIL	129004	34.7	1.69	23.3	31297	27.2	0.41	10.4
05 MAY	113928	30.3	1.51	16.7	24898	33.1	0.33	21.0
06 JUNE	225545	18.8	1.48	7.0	38099	25.0	0.25	17.6
07 JULY	53207	48.1	1.00	41.1	12238	46.7	0.23	40.3
08 AUGUST	207500	21.0	1.37	12.5	33321	36.0	0.22	31.4
09 SEPTEMBER	68092	62.7	1.34	45.6	11687	57.9	0.23	40.2
10 OCTOBER	77547	30.0	1.39	18.3	17852	47.6	0.32	40.5
11 NOVEMBER	117945	35.4	1.34	21.1	19364	39.6	0.22	26.9
12 DECEMBER	4594	39.8	0.51	13.0	540	38.0	0.06	6.7
TOTAL	**1245334**				**260449**			

SUMMARY OF SPECIES CATCH STATISTICS - 2009

LAKE=OLD HICKORY

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
ANY GAR	161	3359.6	0.0	0	0	.	0.0	0	100.0	.	0
CARP	399	1945.1	0.0	200	0	.	0.0	0	100.0	.	0
BIGMOUTH BUFFALO	161	3359.6	0.0	0	0	.	0.0	0	100.0	.	0
BLACK BULLHEAD	177	1455.9	0.0	177	177	1455.9	0.1	177	0.0	6.73	1
YELLOW BULLHEAD	197	1431.5	0.0	197	197	1431.5	0.1	197	0.0	0.45	1
BLUE CATFISH	1922	455.4	0.2	1538	1253	421.4	0.5	895	34.8	3.01	7
CHANNEL CATFISH	40444	36.4	3.2	31416	23354	33.8	9.0	18400	42.3	2.36	132
FLATHEAD CATFISH	1152	487.9	0.1	823	668	465.7	0.3	668	42.0	2.39	4
RAINBOW TROUT	179	2337.2	0.0	0	0	.	0.0	0	100.0	.	0
WHITE BASS	106603	27.9	8.6	70224	27143	31.1	10.4	19650	74.5	0.85	192
YELLOW BASS	86818	31.6	7.0	31153	11137	51.4	4.3	4365	87.2	0.42	74
STRIPED BASS	12791	153.4	1.0	9380	2964	194.9	1.1	2964	76.8	10.19	17
CHEROKEE BASS	158	2670.7	0.0	158	0	.	0.0	0	100.0	.	0
ROCK BASS	786	646.2	0.1	0	786	646.2	0.3	0	0.0	0.43	6
GREEN SUNFISH	9942	197.1	0.8	7371	5614	171.3	2.2	4763	43.5	0.15	33
WARMOUTH	3922	282.7	0.3	2615	1557	264.1	0.6	1384	60.3	0.28	9
BLUEGILL	215834	16.5	17.3	148386	43864	20.8	16.8	34328	79.7	0.25	253
LONGEAR SUNFISH	4975	257.3	0.4	2322	3133	206.2	1.2	989	37.0	0.16	19
REDEAR SUNFISH	6830	186.3	0.5	4553	5116	175.8	2.0	3881	25.1	0.27	29
SMALLMOUTH BASS	8601	158.4	0.7	1720	1204	407.9	0.5	0	86.0	2.04	7
SPOTTED BASS	10961	178.4	0.9	2784	1096	245.7	0.4	548	90.0	1.04	6
LARGEMOUTH BASS	481704	10.7	38.6	442837	37087	17.9	14.2	33521	92.3	1.80	208
WHITE CRAPPIE	156839	18.2	12.6	149047	68658	21.5	26.4	66391	56.2	0.82	424
BLACK CRAPPIE	30692	72.0	2.5	29691	11266	76.8	4.3	10649	63.3	0.72	73
BLACKNOSE CRAPPIE	468	829.9	0.0	468	310	801.8	0.1	310	33.8	0.68	2
SAUGER	36857	59.5	3.0	25330	8649	72.6	3.3	5903	76.5	1.43	63
WALLEYE	7780	155.7	0.6	5386	3819	166.8	1.5	3183	50.9	2.41	24
FRESHWATER DRUM	18577	106.3	1.5	8924	1031	267.5	0.4	687	94.5	2.07	6

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2009

LAKE=OLD HICKORY

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	92060	12.1	19077	10.3	0.38	41.0	0.22	48.4	111
WHITE BASS	26886	18.9	5809	3.0	1.53	48.0	0.55	37.1	47
STRIPED BASS	41473	15.7	8682	4.6	0.16	136.2	0.07	159.7	58
ANY SUNFISH	32055	17.6	6563	3.6	3.44	38.9	1.12	48.9	45
SMALLMOUTH BASS	5708	37.9	1182	0.6	0.14	81.0	0.00		11
SPOTTED BASS	674	102.1	132	0.1	0.57		0.00		1
LARGEMOUTH BASS	352613	8.5	72956	39.5	0.96	15.8	0.07	35.8	562
ANY CRAPPIE	134310	13.0	28974	15.0	1.28	29.2	0.58	30.0	221
SAUGER	30396	21.4	6875	3.4	0.85	48.5	0.21	62.7	54
WALLEYE	13629	25.7	2922	1.5	0.42	55.4	0.24	50.7	25
ANY SPECIES	162870	10.2	34199	18.2	1.60	39.9	0.36	44.3	234
OTHER	1054	82.4	216	0.1	0.00		0.00		2
TOTAL	**893728**		**187587**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2009

LAKE=OLD HICKORY

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	BLACK BULLHEAD	0.00	0.00
	YELLOW BULLHEAD	0.00	0.00
	BLUE CATFISH	0.02	0.01
	CHANNEL CATFISH	0.35	0.20
	FLATHEAD CATFISH	0.01	0.01
ANY SUNFISH			
	ANY SUNFISH	0.00	0.00
	GREEN SUNFISH	0.15	0.12
	WARMOUTH	0.05	0.03
	BLUEGILL	3.09	0.85
	LONGEAR SUNFISH	0.05	0.02
	REDEAR SUNFISH	0.09	0.10
ANY BLACK BASS			
	SMALLMOUTH BASS	0.00	0.00
	SPOTTED BASS	0.01	0.00
	LARGEMOUTH BASS	1.23	0.09
ANY CRAPPIE			
	ANY CRAPPIE	0.00	0.00
	WHITE CRAPPIE	1.06	0.50
	BLACK CRAPPIE	0.21	0.08
	BLACKNOSE CRAPPIE	0.00	0.00

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=OLD HICKORY

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.19	13
02 FEBRUARY	0		0	0.84	14
03 MARCH	9	0.38	3	0.87	55
04 APRIL	17	0.47	5	1.04	33
05 MAY	67	0.54	12	0.79	31
06 JUNE	1	0.47	3	1.58	83
07 JULY	27	1.43	10	0.84	21
08 AUGUST	12	1.02	23	0.77	141
09 SEPTEMBER	23	0.84	4	1.26	22
10 OCTOBER	0		0	0.80	51
11 NOVEMBER	19	0.99	4	0.46	38
12 DECEMBER	66	0.40	2	0.56	6

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2009

LAKE=OLD HICKORY

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	129630	70930	200550	51
WHITE BASS	37380	40260	77640	14
STRIPED BASS	188880	105080	293970	29
ANY SUNFISH	59180	55610	114780	18
SMALLMOUTH BASS	12900	8100	21000	6
LARGEMOUTH BASS	1485560	436130	1921700	104
ANY CRAPPIE	315720	210570	526300	50
SAUGER	39470	80850	120320	14
WALLEYE	18530	22790	41320	5
ANY SPECIES	284780	231650	516430	36
TOTAL	**2572030**	**1261970**	**3834010**	**327**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2009

LAKE=OLD HICKORY

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	571	90.2
OTHERS	62	9.8

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
DAVIDSON	73	12.7
SMITH	29	5.1
SUMNER	141	24.6
TROUSDALE	42	7.3
WILSON	212	37.0
OTHERS IN TN	70	12.2
OUT-OF-STATE	6	1.0

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	470	74.0
B) 26-100	111	17.5
C) 101-250	16	2.5
D) > 250	38	6.0

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	328	99.7
B) VACATION	1	0.3

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	311	94.5
B) 2-5	11	3.3
C) 6-10	6	1.8
D) 11-15	1	0.3

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REGION III

CENTER HILL

RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2009

LAKE=CENTER HILL

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	3815	27.8	0.2	820	0.0	1.2
02 FEBRUARY	18569	33.3	1.0	3531	0.2	5.8
03 MARCH	60134	44.2	3.3	9846	0.5	18.9
04 APRIL	55010	33.4	3.0	9336	0.5	17.3
05 MAY	31967	12.6	1.8	6481	0.4	10.1
06 JUNE	33525	9.5	1.8	6471	0.4	10.5
07 JULY	25259	31.8	1.4	5359	0.3	7.9
08 AUGUST	18617	22.5	1.0	3964	0.2	5.9
09 SEPTEMBER	15481	16.8	0.8	2768	0.2	4.9
10 OCTOBER	19733	20.9	1.1	3594	0.2	6.2
11 NOVEMBER	27415	7.8	1.5	5171	0.3	8.6
12 DECEMBER	8444	40.8	0.5	1589	0.1	2.7
TOTAL	**317969**			**58930**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2009

LAKE=CENTER HILL

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	1717	39.9	0.45	27.3	992	69.2	0.26	60.5
02 FEBRUARY	371	62.9	0.02	45.0	186	66.0	0.01	71.2
03 MARCH	16838	77.4	0.28	59.0	7216	62.9	0.12	39.7
04 APRIL	39607	44.7	0.72	28.1	12652	41.1	0.23	23.2
05 MAY	17902	24.2	0.56	20.4	7672	45.8	0.24	44.5
06 JUNE	30843	32.4	0.92	30.8	17098	25.9	0.51	24.1
07 JULY	12124	39.0	0.48	21.4	4294	55.4	0.17	42.6
08 AUGUST	4654	28.5	0.25	17.4	2234	30.0	0.12	18.7
09 SEPTEMBER	12694	27.3	0.82	21.1	2941	40.7	0.19	37.5
10 OCTOBER	10458	27.0	0.53	16.7	2763	34.3	0.14	26.4
11 NOVEMBER	17546	15.1	0.64	13.0	4112	14.8	0.15	12.5
12 DECEMBER	10302	84.9	1.22	69.0	2702	45.0	0.32	17.6
TOTAL	**175056**				**64862**			

SUMMARY OF SPECIES CATCH STATISTICS - 2009

LAKE=CENTER HILL

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CHANNEL CATFISH	2580	118.9	1.5	1522	2295	127.4	3.5	1508	11.0	3.64	35
FLATHEAD CATFISH	772	211.2	0.4	643	772	211.2	1.2	643	0.0	3.21	12
CHEROKEE BASS	71	1599.1	0.0	0	71	1599.1	0.1	0	0.0	7.80	1
BLUEGILL	34803	23.5	19.9	32204	18519	33.0	28.6	18093	46.8	0.40	261
REDEAR SUNFISH	71	1599.1	0.0	0	71	1599.1	0.1	0	0.0	0.70	1
SMALLMOUTH BASS	13073	45.1	7.5	12060	2148	60.4	3.3	2055	83.6	2.37	23
SPOTTED BASS	64556	16.5	36.8	59551	25833	21.6	39.8	22876	60.0	1.52	332
LARGEMOUTH BASS	9789	54.0	5.6	8303	1347	98.9	2.1	834	86.2	3.02	21
WHITE CRAPPIE	4338	141.0	2.5	4338	1044	211.3	1.6	1044	75.9	0.99	14
BLACK CRAPPIE	4703	139.9	2.7	4703	1164	193.7	1.8	1164	75.2	1.27	15
BLACKNOSE CRAPPIE	23012	35.4	13.1	22919	5783	53.1	8.9	5704	74.9	1.26	73
WALLEYE	16416	28.1	9.4	16261	5818	41.7	9.0	5818	64.6	2.42	89
FRESHWATER DRUM	201	915.0	0.1	101	0	.	0.0	0	100.0	.	0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2009

LAKE=CENTER HILL

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	5550	29.3	1096	1.7	0.21	75.7	0.21	75.7	10
ANY SUNFISH	14514	18.9	2890	4.6	3.75	29.5	2.05	20.6	19
ANY BLACK BASS	149123	15.3	26713	46.9	0.56	22.1	0.19	31.7	320
SMALLMOUTH BASS	3410	38.7	684	1.1	0.29	21.3	0.00		9
SPOTTED BASS	7032	28.0	1359	2.2	0.95	39.6	0.74	46.8	19
ANY CRAPPIE	32473	20.1	5758	10.2	1.50	38.0	0.41	51.1	68
WALLEYE	63344	13.5	12322	19.9	0.30	32.1	0.12	38.4	160
ANY SPECIES	42526	13.3	8107	13.4	0.17	116.5	0.12	134.8	64
TOTAL	**317972**		**58929**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2009

LAKE=CENTER HILL

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	CHANNEL CATFISH	0.15	0.15
	FLATHEAD CATFISH	0.06	0.06
ANY SUNFISH			
	BLUEGILL	3.75	2.05
	REDEAR SUNFISH	0.00	0.00
ANY BLACK BASS			
	SMALLMOUTH BASS	0.08	0.01
	SPOTTED BASS	0.37	0.14
	LARGEMOUTH BASS	0.05	0.01
ANY CRAPPIE			
	ANY CRAPPIE	0.00	0.00
	WHITE CRAPPIE	0.20	0.05
	BLACK CRAPPIE	0.22	0.06
	BLACKNOSE CRAPPIE	1.08	0.30

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=CENTER HILL

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	62	0.25	2	0.10	5
02 FEBRUARY	42	0.10	10	0.03	31
03 MARCH	25	0.28	16	0.29	59
04 APRIL	31	0.42	10	0.69	47
05 MAY	0		0	0.42	20
06 JUNE	0		0	0.71	24
07 JULY	0		0	0.54	10
08 AUGUST	0	0.00	1	0.84	15
09 SEPTEMBER	0		0	1.52	17
10 OCTOBER	37	0.36	10	0.97	31
11 NOVEMBER	32	0.87	9	0.68	19
12 DECEMBER	2	0.00	3	1.48	9

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2009

LAKE=CENTER HILL

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	14510	10900	25410	10
ANY SUNFISH	34810	30760	65570	19
ANY BLACK BASS	582760	399870	982640	320
SMALLMOUTH BASS	16990	12140	29130	9
SPOTTED BASS	21530	14400	35930	19
ANY CRAPPIE	70770	55280	123990	67
WALLEYE	186430	126870	313300	158
ANY SPECIES	67760	72250	140010	63
TOTAL	**995560**	**722470**	**1715980**	**665**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2009

LAKE=CENTER HILL

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	1308	98.5
OTHERS	20	1.5

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
DAVIDSON	123	9.4
DEKALB	237	18.1
PUTNAM	321	24.5
SMITH	82	6.3
WARREN	184	14.1
OTHERS IN TN	361	27.6

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	902	67.9
B) 26-100	397	29.9
C) 101-250	13	1.0
D) > 250	16	1.2

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	638	93.8
B) VACATION	42	6.2

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	613	90.1
B) 2-5	45	6.6
C) 6-10	18	2.6
D) 11-15	3	0.4
E) 16-20	1	0.1

CHICKAMAUGA RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2009

LAKE=CHICKAMAUGA

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	26570	15.8	0.8	4422	0.1	5.6
02 FEBRUARY	22722	22.1	0.7	4108	0.1	4.8
03 MARCH	46483	27.1	1.3	7795	0.2	9.8
04 APRIL	49157	14.0	1.4	7160	0.2	10.4
05 MAY	48508	22.3	1.4	7436	0.2	10.3
06 JUNE	60165	25.0	1.7	9065	0.3	12.7
07 JULY	44707	7.4	1.3	7055	0.2	9.5
08 AUGUST	45815	13.7	1.3	7606	0.2	9.7
09 SEPTEMBER	34111	12.7	1.0	5271	0.2	7.2
10 OCTOBER	34994	11.0	1.0	5312	0.2	7.4
11 NOVEMBER	47003	40.0	1.4	7289	0.2	9.9
12 DECEMBER	12833	10.9	0.4	2043	0.1	2.7
TOTAL	**473068**			**74562**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2009

LAKE=CHICKAMAUGA

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	61908	25.7	2.33	20.0	15145	34.3	0.57	30.1
02 FEBRUARY	58396	40.9	2.57	33.7	13179	62.7	0.58	57.3
03 MARCH	106911	28.4	2.30	8.3	31608	30.9	0.68	14.4
04 APRIL	93398	17.1	1.90	9.8	25562	20.0	0.52	14.1
05 MAY	130487	28.9	2.69	18.0	38806	30.3	0.80	20.1
06 JUNE	157031	27.9	2.61	12.0	33692	32.3	0.56	20.0
07 JULY	108191	12.6	2.42	10.1	28165	18.2	0.63	16.5
08 AUGUST	124159	17.5	2.71	10.7	28405	22.1	0.62	17.1
09 SEPTEMBER	104039	15.8	3.05	9.3	24560	20.5	0.72	15.9
10 OCTOBER	113731	19.0	3.25	15.4	29745	20.4	0.85	17.2
11 NOVEMBER	130198	40.7	2.77	7.2	35252	41.7	0.75	10.9
12 DECEMBER	44017	13.7	3.43	8.3	8855	12.7	0.69	6.4
TOTAL	**1232466**				**312974**			

SUMMARY OF SPECIES CATCH STATISTICS - 2009

LAKE=CHICKAMAUGA

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
BLUE CATFISH	160927	12.4	13.1	150816	74147	13.4	23.7	69879	53.9	3.52	1185
CHANNEL CATFISH	38180	36.6	3.1	34395	18889	36.2	6.0	17116	50.5	3.34	306
FLATHEAD CATFISH	5596	164.4	0.5	3924	2454	168.0	0.8	2334	56.1	4.43	41
WHITE BASS	67490	32.6	5.5	27141	20526	38.6	6.6	14126	69.6	1.23	333
YELLOW BASS	82770	22.9	6.7	41490	1343	75.6	0.4	1217	98.4	0.28	32
STRIPED BASS	9646	141.0	0.8	8617	2033	256.6	0.6	1694	78.9	16.09	30
WARMOUTH	42	3181.6	0.0	0	42	3181.6	0.0	0	0.0	0.60	1
BLUEGILL	332956	9.7	27.0	234168	88032	14.0	28.1	70509	73.6	0.25	1472
LONGEAR SUNFISH	84	2248.6	0.0	0	84	2248.6	0.0	0	0.0	0.35	2
REDEAR SUNFISH	28360	57.0	2.3	23341	13497	59.0	4.3	11152	52.4	0.43	305
SMALLMOUTH BASS	18631	64.9	1.5	17353	468	201.1	0.1	468	97.5	3.75	8
SPOTTED BASS	48309	29.4	3.9	41408	373	190.4	0.1	373	99.2	1.52	6
LARGEMOUTH BASS	226986	10.7	18.4	208748	15212	21.0	4.9	13749	93.3	2.92	240
WHITE CRAPPIE	20934	74.8	1.7	20866	8116	77.4	2.6	8116	61.2	0.77	131
BLACK CRAPPIE	138077	22.2	11.2	134232	59644	22.0	19.1	58039	56.8	0.81	882
BLACKNOSE CRAPPIE	3594	279.5	0.3	3594	335	765.5	0.1	335	90.7	1.08	5
YELLOW PERCH	105	1850.5	0.0	0	0	.	0.0	0	100.0	.	0
SAUGER	22806	72.6	1.9	19385	6272	77.9	2.0	5395	72.5	1.66	89
FRESHWATER DRUM	24906	54.7	2.0	5454	422	238.2	0.1	422	98.3	8.36	7

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2009

LAKE=CHICKAMAUGA

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	99968	8.8	15616	21.1	1.42	14.6	0.70	20.7	284
BROWN TROUT	416	111.4	65	0.1	0.00		0.00		1
WHITE BASS	1139	57.8	185	0.2	3.28	4.6	2.05	22.8	3
STRIPED BASS	10582	19.1	1670	2.2	0.43	35.9	0.10	56.5	30
ANY SUNFISH	2589	38.0	397	0.5	6.60	16.5	2.32	38.8	8
ANY BLACK BASS	190073	7.8	29865	40.2	1.13	12.4	0.08	41.0	597
LARGEMOUTH BASS	238	143.4	36	0.1	0.00		0.00		1
ANY CRAPPIE	44290	12.5	7085	9.4	2.39	19.5	1.07	18.3	130
SAUGER	10277	20.9	1739	2.2	1.23	18.2	0.34	16.1	28
ANY SPECIES	113499	8.1	17904	24.0	4.12	21.3	1.43	33.5	317
TOTAL	**473071**		**74562**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2009

LAKE=CHICKAMAUGA

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	1.13	0.55
	CHANNEL CATFISH	0.26	0.13
	FLATHEAD CATFISH	0.03	0.02
ANY SUNFISH			
	WARMOUTH	0.00	0.00
	BLUEGILL	6.00	2.00
	LONGEAR SUNFISH	0.00	0.00
	REDEAR SUNFISH	0.60	0.32
ANY BLACK BASS			
	SMALLMOUTH BASS	0.09	0.00
	SPOTTED BASS	0.22	0.00
	LARGEMOUTH BASS	1.10	0.07
ANY CRAPPIE			
	WHITE CRAPPIE	0.31	0.13
	BLACK CRAPPIE	2.02	0.93
	BLACKNOSE CRAPPIE	0.05	0.01

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=CHICKAMAUGA

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	19	1.13	2	0.68	23
02 FEBRUARY	0		0	1.15	15
03 MARCH	0		0	1.13	57
04 APRIL	15	1.28	7	0.83	60
05 MAY	0		0	1.15	64
06 JUNE	11	1.72	3	1.18	64
07 JULY	0		0	1.11	62
08 AUGUST	19	1.72	6	1.24	49
09 SEPTEMBER	7	2.78	2	1.25	51
10 OCTOBER	0		0	1.08	52

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS
FOR INTENDED SPECIES - 2009

LAKE=CHICKAMAUGA

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	319300	398170	717470	250
BROWN TROUT	870	5160	6030	1
WHITE BASS	2270	2510	4780	3
STRIPED BASS	45760	45810	91570	24
ANY SUNFISH	11770	9150	20920	8
ANY BLACK BASS	685940	876920	1562860	523
ANY CRAPPIE	134560	158900	293460	122
SAUGER	31280	51960	83240	26
ANY SPECIES	239190	326770	565960	250
TOTAL	**1470940**	**1875350**	**3346290**	**1207**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2009

LAKE=CHICKAMAUGA

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	2440	94.2
OTHERS	150	5.8

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BRADLEY	346	14.2
HAMILTON	744	30.5
McMINN	207	8.5
MEIGS	273	11.2
RHEA	380	15.6
OTHERS IN TN	489	20.0

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	2014	78.3
B) 26-100	518	20.1
C) 101-250	35	1.4
D) > 250	5	0.2

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	1285	99.7
B) VACATION	3	0.2
D) OTHER	1	0.1

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	1271	98.6
B) 2-5	18	1.4

WATTS BAR RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2009

LAKE=WATTS BAR

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	15646	37.8	0.4	2387	0.1	3.6
02 FEBRUARY	24699	7.9	0.6	4116	0.1	5.6
03 MARCH	66478	20.0	1.7	11074	0.3	15.2
04 APRIL	43983	11.9	1.1	6556	0.2	10.0
05 MAY	54500	29.7	1.4	8110	0.2	12.4
06 JUNE	57239	19.9	1.5	8315	0.2	13.1
07 JULY	49027	33.2	1.3	8267	0.2	11.2
08 AUGUST	36654	16.2	0.9	5864	0.2	8.4
09 SEPTEMBER	32486	14.8	0.8	5092	0.1	7.4
10 OCTOBER	26418	20.9	0.7	3749	0.1	6.0
11 NOVEMBER	18380	20.9	0.5	2722	0.1	4.2
12 DECEMBER	12450	8.2	0.3	2052	0.1	2.8
TOTAL	**437960**			**68304**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2009

LAKE=WATTS BAR

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	23469	44.4	1.50	21.8	4850	41.7	0.31	16.6
02 FEBRUARY	36555	13.9	1.48	11.4	8892	12.4	0.36	9.5
03 MARCH	105035	25.5	1.58	15.5	30580	35.9	0.46	29.5
04 APRIL	54099	13.5	1.23	6.3	14075	22.6	0.32	19.1
05 MAY	95920	35.5	1.76	18.7	18530	50.8	0.34	39.7
06 JUNE	120774	23.4	2.11	11.9	24613	34.4	0.43	27.4
07 JULY	211306	49.2	4.31	34.4	61284	62.4	1.25	50.2
08 AUGUST	70742	29.4	1.93	24.3	15761	32.9	0.43	28.3
09 SEPTEMBER	55876	20.3	1.72	13.8	13319	33.7	0.41	30.3
10 OCTOBER	50194	37.0	1.90	29.8	7925	31.5	0.30	23.4
11 NOVEMBER	35841	23.3	1.95	10.3	11763	31.1	0.64	22.7
12 DECEMBER	19671	34.1	1.58	33.0	5478	49.4	0.44	48.2
TOTAL	**879482**				**217070**			

SUMMARY OF SPECIES CATCH STATISTICS - 2009

LAKE=WATTS BAR

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
ANY BUFFALO	349	1508.0	0.0	0	0	.	0.0	0	100.0	.	0
BROWN BULLHEAD	492	456.2	0.1	492	282	481.3	0.1	282	42.7	1.17	7
BLUE CATFISH	99117	24.0	11.3	87481	38895	32.7	17.9	36631	60.8	4.15	373
CHANNEL CATFISH	28351	66.3	3.2	24807	10721	75.4	4.9	10356	62.2	2.89	86
FLATHEAD CATFISH	6951	279.1	0.8	4550	1154	418.7	0.5	1000	83.4	9.96	12
WHITE BASS	120130	30.1	13.6	87597	48085	47.6	22.2	41788	60.0	1.34	336
YELLOW BASS	17662	104.3	2.0	7552	0	.	0.0	0	100.0	.	0
STRIPED BASS	20746	96.5	2.4	15067	5615	125.5	2.6	5241	72.9	16.59	45
BLUEGILL	147503	22.8	16.7	77627	38001	32.0	17.5	20609	74.2	0.26	378
REDEAR SUNFISH	1438	499.8	0.2	1438	1352	491.6	0.6	1352	6.0	0.43	8
SMALLMOUTH BASS	30167	52.6	3.4	25431	1477	130.7	0.7	1292	95.1	4.49	15
SPOTTED BASS	38728	50.3	4.4	36878	1131	213.6	0.5	1131	97.1	1.30	8
LARGEMOUTH BASS	234996	13.7	26.7	209594	15616	26.6	7.2	15065	93.4	2.79	170
WHITE CRAPPIE	44611	32.1	5.1	35436	22879	31.5	10.5	17830	48.7	0.78	280
BLACK CRAPPIE	55103	29.3	6.3	49851	25031	31.7	11.5	21966	54.6	0.88	292
BLACKNOSE CRAPPIE	1569	264.0	0.2	1420	482	278.5	0.2	482	69.3	1.43	7
YELLOW PERCH	652	419.1	0.1	419	354	398.3	0.2	310	45.7	0.53	8
SAUGER	20451	54.6	2.3	20350	5994	72.4	2.8	5994	70.7	1.60	45
FRESHWATER DRUM	11865	127.2	1.3	2738	0	.	0.0	0	100.0	.	0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2009

LAKE=WATTS BAR

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	66758	11.9	10385	15.2	1.48	32.2	0.67	30.5	125
WHITE BASS	14681	23.6	2288	3.4	4.58	14.0	1.90	34.7	26
STRIPED BASS	12298	20.9	1908	2.8	0.72	29.6	0.23	59.4	31
ANY SUNFISH	241	140.2	39	0.1	14.62		6.92		1
ANY BLACK BASS	204015	8.3	31646	46.6	1.06	13.4	0.07	44.9	420
LARGEMOUTH BASS	496	96.8	78	0.1	0.29		0.00		1
ANY CRAPPIE	45248	13.4	7022	10.3	1.32	26.6	0.65	27.6	84
SAUGER	12593	25.1	2085	2.9	1.40	45.6	0.39	45.3	23
ANY SPECIES	81635	11.4	12851	18.6	2.31	31.0	0.70	55.0	151
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TOTAL	**437965**		**68302**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2009

LAKE=WATTS BAR

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	BROWN BULLHEAD	0.01	0.00
	BLUE CATFISH	1.10	0.51
	CHANNEL CATFISH	0.31	0.14
	FLATHEAD CATFISH	0.06	0.01
ANY SUNFISH			
	BLUEGILL	14.35	6.49
	REDEAR SUNFISH	0.27	0.43
ANY BLACK BASS			
	SMALLMOUTH BASS	0.12	0.01
	SPOTTED BASS	0.18	0.01
	LARGEMOUTH BASS	1.02	0.07
ANY CRAPPIE			
	WHITE CRAPPIE	0.54	0.29
	BLACK CRAPPIE	0.76	0.35
	BLACKNOSE CRAPPIE	0.02	0.01

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=WATTS BAR

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.89	13
02 FEBRUARY	0		0	0.76	8
03 MARCH	0		0	0.79	35
04 APRIL	18	1.18	10	0.66	57
05 MAY	7	2.08	2	1.17	60
06 JUNE	12	2.35	5	1.57	47
07 JULY	0		0	1.17	27
08 AUGUST	3	2.50	1	0.83	44
09 SEPTEMBER	23	1.39	4	0.94	29
10 OCTOBER	3	0.57	1	0.87	34
11 NOVEMBER	0		0	0.87	23
12 DECEMBER	0		0	0.82	16

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2009

LAKE=WATTS BAR

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	232100	271570	503670	102
WHITE BASS	53500	90750	144250	22
STRIPED BASS	63640	76420	140060	30
ANY SUNFISH	1310	770	2080	1
ANY BLACK BASS	810890	1091920	1902810	371
LARGEMOUTH BASS	2800	2720	5520	1
ANY CRAPPIE	166100	209560	375650	81
SAUGER	37030	53310	90340	23
ANY SPECIES	247370	286320	533700	115
TOTAL	**1614740**	**2083340**	**3698080**	**746**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2009

LAKE=WATTS BAR

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	1588	96.2
OTHERS	62	3.8

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
CUMBERLAND	92	5.8
HAMILTON	119	7.5
KNOX	149	9.4
LOUDON	180	11.3
McMINN	137	8.6
MEIGS	138	8.7
RHEA	169	10.6
ROANE	351	22.1
OTHERS IN TN	253	15.9

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	1160	70.6
B) 26-100	429	26.1
C) 101-250	40	2.4
D) > 250	15	0.9

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	814	99.9
B) VACATION	1	0.1

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	793	97.4
B) 2-5	17	2.1
C) 6-10	3	0.4
F) >20	1	0.1

DALE HOLLOW RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2009

LAKE=DALE HOLLOW

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	15349	21.7	0.7	2846	0.1	4.1
02 FEBRUARY	15670	28.9	0.7	2347	0.1	4.2
03 MARCH	46508	23.1	2.0	6947	0.3	12.3
04 APRIL	79749	16.1	3.4	10924	0.5	21.2
05 MAY	52514	13.6	2.3	7976	0.3	13.9
06 JUNE	41791	18.9	1.8	7678	0.3	11.1
07 JULY	16823	17.0	0.7	3236	0.1	4.5
08 AUGUST	13123	17.9	0.6	2502	0.1	3.5
09 SEPTEMBER	16502	12.2	0.7	2913	0.1	4.4
10 OCTOBER	29204	10.9	1.3	4997	0.2	7.8
11 NOVEMBER	20855	7.1	0.9	3314	0.1	5.5
12 DECEMBER	28496	12.6	1.2	4639	0.2	7.6
TOTAL	**376584**			**60319**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2009

LAKE=DALE HOLLOW

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	5065	30.3	0.33	21.0	153	62.5	0.01	70.8
02 FEBRUARY	1410	67.0	0.09	55.3	0	.	0.00	.
03 MARCH	14883	32.5	0.32	22.5	4186	50.0	0.09	43.7
04 APRIL	32697	23.4	0.41	16.9	16747	27.0	0.21	21.3
05 MAY	35184	17.8	0.67	11.4	18905	24.0	0.36	19.6
06 JUNE	31343	30.6	0.75	23.7	16298	39.5	0.39	33.8
07 JULY	4374	25.6	0.26	19.2	2019	40.2	0.12	34.8
08 AUGUST	5249	35.0	0.40	29.8	2625	45.2	0.20	40.4
09 SEPTEMBER	6766	27.5	0.41	24.7	3630	33.4	0.22	30.3
10 OCTOBER	14602	15.7	0.50	11.3	4965	29.4	0.17	26.7
11 NOVEMBER	12096	13.7	0.58	11.7	3337	29.6	0.16	28.8
12 DECEMBER	13678	17.5	0.48	12.1	570	65.2	0.02	51.5
TOTAL	**177347**				**73435**			

SUMMARY OF SPECIES CATCH STATISTICS - 2009

LAKE=DALE HOLLOW

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CHANNEL CATFISH	7183	50.0	4.1	3944	6386	52.6	8.7	3822	11.1	4.62	137
FLATHEAD CATFISH	249	514.2	0.1	249	249	514.2	0.3	249	0.0	11.00	5
RAINBOW TROUT	1230	226.1	0.7	1230	1230	226.1	1.7	1230	0.0	2.59	30
WHITE BASS	389	627.9	0.2	0	0	.	0.0	0	100.0	.	0
GREEN SUNFISH	139	1133.4	0.1	0	50	1992.2	0.1	0	64.0	1.30	1
BLUEGILL	36033	20.1	20.4	30655	22774	25.4	31.0	19939	36.8	0.41	466
REDEAR SUNFISH	22746	33.1	12.9	22140	19461	35.1	26.5	18853	14.4	0.63	416
COOSA BASS	157	772.9	0.1	0	52	994.8	0.1	0	66.9	5.00	1
SMALLMOUTH BASS	62678	8.9	35.6	56225	1949	36.0	2.7	1722	96.9	2.44	43
SPOTTED BASS	5726	48.2	3.2	4013	2046	76.0	2.8	1535	64.3	1.55	48
LARGEMOUTH BASS	10288	30.3	5.8	8610	2253	68.9	3.1	1847	78.1	2.73	50
WHITE CRAPPIE	989	279.0	0.6	989	585	341.9	0.8	585	40.8	1.00	13
BLACK CRAPPIE	6352	67.5	3.6	6139	4072	84.9	5.5	3949	35.9	1.16	99
BLACKNOSE CRAPPIE	8777	49.9	5.0	8049	5083	62.8	6.9	4720	42.1	1.28	126
WALLEYE	9479	37.7	5.4	9242	6912	47.0	9.4	6672	27.1	3.50	144
SAUGEYE	207	425.7	0.1	0	175	469.1	0.2	0	15.5	2.84	5
FRESHWATER DRUM	431	418.3	0.2	0	121	762.1	0.2	0	71.9	5.17	3

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2009

LAKE=DALE HOLLOW

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	6839	24.3	1062	1.8	0.35	28.6	0.33	27.5	17
MUSKELLUNGE	399	80.0	71	0.1	0.00		0.00		2
RAINBOW TROUT	368	104.7	68	0.1	0.00		0.00		1
ANY TROUT	4054	27.2	725	1.1	0.32	41.1	0.32	41.1	10
ANY SUNFISH	23134	14.4	3657	6.1	3.14	22.7	2.26	20.9	63
ANY BLACK BASS	80698	8.8	12755	21.4	0.29	19.6	0.06	50.8	273
SMALLMOUTH BASS	151266	7.3	23552	40.2	0.29	15.4	0.01	61.6	463
SPOTTED BASS	98	147.7	15	0.0	0.00		0.00		1
LARGEMOUTH BASS	1676	45.5	253	0.4	0.42	61.7	0.15	84.6	6
ANY CRAPPIE	33847	11.4	5295	9.0	0.83	35.5	0.45	46.9	112
WALLEYE	40975	12.0	7271	10.9	0.31	22.9	0.23	21.8	155
ANY SPECIES	33229	10.9	5598	8.8	0.20	102.8	0.12	118.9	70
TOTAL	**376583**		**60322**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2009

LAKE=DALE HOLLOW

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	CHANNEL CATFISH	0.33	0.31
	FLATHEAD CATFISH	0.02	0.02
ANY TROUT			
	RAINBOW TROUT	0.32	0.32
ANY SUNFISH			
	GREEN SUNFISH	0.00	0.00
	BLUEGILL	1.82	1.16
	REDEAR SUNFISH	1.32	1.10
ANY BLACK BASS			
	ANY BLACK BASS	0.00	0.00
	COOSA BASS	0.00	0.00
	SMALLMOUTH BASS	0.24	0.01
	SPOTTED BASS	0.02	0.01
	LARGEMOUTH BASS	0.04	0.01
ANY CRAPPIE			
	ANY CRAPPIE	0.00	0.00
	WHITE CRAPPIE	0.05	0.03
	BLACK CRAPPIE	0.34	0.19
	BLACKNOSE CRAPPIE	0.44	0.23

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=DALE HOLLOW

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	2	0.33	3	0.29	31
02 FEBRUARY	11	0.07	6	0.16	69
03 MARCH	6	0.16	4	0.25	113
04 APRIL	5	0.41	6	0.23	152
05 MAY	0	0.00	1	0.40	74
06 JUNE	0	0.00	4	0.30	30
07 JULY	0		0	0.27	21
08 AUGUST	0		0	0.25	16
09 SEPTEMBER	0	0.00	1	0.24	39
10 OCTOBER	10	0.31	8	0.38	58
11 NOVEMBER	13	0.21	6	0.29	50
12 DECEMBER	14	0.46	9	0.47	41

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2009

LAKE=DALE HOLLOW

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	15250	11380	26630	17
MUSKELLUNGE	3080	3580	6660	2
RAINBOW TROUT	2370	1010	3380	1
ANY TROUT	26250	18350	44600	10
ANY SUNFISH	62320	37220	96120	63
ANY BLACK BASS	403020	275120	678140	273
SMALLMOUTH BASS	927350	510490	1437840	463
SPOTTED BASS	150	440	590	1
LARGEMOUTH BASS	3650	3420	7070	6
ANY CRAPPIE	96040	49940	144230	112
WALLEYE	133850	96810	230060	155
ANY SPECIES	76960	51390	128340	69
TOTAL	**1750290**	**1059150**	**2803660**	**1172**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2009

LAKE=DALE HOLLOW

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
IN	156	6.3
KY	639	25.9
OH	319	12.9
TN	1205	48.8
OTHERS	152	6.2

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
CLAY	233	19.2
DAVIDSON	117	9.7
OVERTON	195	16.1
PICKETT	156	12.9
PUTNAM	95	7.8
WHITE	78	6.4
OTHERS IN TN	331	27.3
OUT-OF-STATE	6	0.5

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	737	29.8
B) 26-100	526	21.3
C) 101-250	520	21.1
D) > 250	687	27.8

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	1082	90.8
B) VACATION	109	9.2

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	637	53.4
B) 2-5	340	28.5
C) 6-10	189	15.9
D) 11-15	24	2.0
E) 16-20	1	0.1
F) >20	1	0.1

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MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2009

LAKE=NORRIS

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	50111	16.1	1.5	10227	0.3	16.3
02 FEBRUARY	14986	57.3	0.4	2655	0.1	4.9
03 MARCH	15876	23.2	0.5	2744	0.1	5.2
04 APRIL	49460	60.7	1.4	8703	0.3	16.0
05 MAY	57921	22.0	1.7	11072	0.3	18.8
06 JUNE	26429	30.4	0.8	4837	0.1	8.6
07 JULY	15229	19.7	0.4	2941	0.1	4.9
08 AUGUST	11590	4.7	0.3	2195	0.1	3.8
09 SEPTEMBER	19489	31.9	0.6	3969	0.1	6.3
10 OCTOBER	25106	34.1	0.7	4402	0.1	8.1
11 NOVEMBER	18203	24.4	0.5	3419	0.1	5.9
12 DECEMBER	3855	25.8	0.1	807	0.0	1.3
TOTAL	**308255**			**57971**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2009

LAKE=NORRIS

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	16537	49.0	0.33	45.7	1503	16.1	0.03	0.0
02 FEBRUARY	4496	109.5	0.30	81.9	1349	132.3	0.09	100.0
03 MARCH	8097	57.5	0.51	51.4	2223	103.0	0.14	100.0
04 APRIL	18795	80.2	0.38	45.2	3462	97.7	0.07	64.1
05 MAY	42862	31.5	0.74	21.9	12743	65.8	0.22	59.4
06 JUNE	9514	50.4	0.36	37.9	793	72.6	0.03	60.1
07 JULY	8224	47.0	0.54	41.5	2894	55.7	0.19	51.7
08 AUGUST	2434	56.7	0.21	55.9	1275	64.3	0.11	67.1
09 SEPTEMBER	10524	43.7	0.54	28.6	6042	71.1	0.31	60.4
10 OCTOBER	25608	52.7	1.02	38.1	3515	59.4	0.14	46.1
11 NOVEMBER	21844	43.5	1.20	34.9	1274	66.2	0.07	61.7
12 DECEMBER	1696	74.3	0.44	67.5	39	141.6	0.01	100.0
TOTAL	**170631**				**37112**			

SUMMARY OF SPECIES CATCH STATISTICS - 2009

LAKE=NORRIS

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
ANY GAR	297	1039.5	0.2	297	0	.	0.0	0	100.0	.	0
CHANNEL CATFISH	2095	187.4	1.2	262	724	260.9	2.0	0	65.4	1.27	5
FLATHEAD CATFISH	507	545.9	0.3	169	0	.	0.0	0	100.0	.	0
MUSKELLUNGE	37	820.4	0.0	0	0	.	0.0	0	100.0	.	0
WHITE BASS	170	1195.7	0.1	0	0	.	0.0	0	100.0	.	0
STRIPED BASS	5081	100.8	3.0	4279	1323	92.6	3.6	1323	74.0	12.30	10
ROCK BASS	175	1015.4	0.1	0	175	1015.4	0.5	0	0.0	0.20	1
BLUEGILL	51150	26.3	29.8	38363	22953	38.8	61.8	21662	55.1	0.34	160
REDEAR SUNFISH	4178	133.0	2.4	3003	1020	212.5	2.7	638	75.6	0.79	8
SMALLMOUTH BASS	50559	25.6	29.5	44129	2102	81.0	5.7	1607	95.8	2.45	17
SPOTTED BASS	28907	33.7	16.9	20004	3476	54.2	9.4	3090	88.0	0.75	27
LARGEMOUTH BASS	16734	46.1	9.8	12386	513	140.6	1.4	513	96.9	2.05	4
WHITE CRAPPIE	2238	172.3	1.3	2046	488	179.3	1.3	488	78.2	1.01	10
BLACK CRAPPIE	5602	90.9	3.3	4921	3369	80.4	9.1	2710	39.9	0.76	46
BLACKNOSE CRAPPIE	1174	385.2	0.7	861	335	363.1	0.9	0	71.5	1.25	4
SAUGER	283	708.7	0.2	0	165	516.7	0.4	0	41.7	1.98	2
WALLEYE	825	322.9	0.5	825	468	465.0	1.3	468	43.3	3.45	4
FRESHWATER DRUM	418	616.2	0.2	0	0	.	0.0	0	100.0	.	0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2009

LAKE=NORRIS

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	1984	69.0	387	0.6	0.00		0.00		2
STRIPED BASS	56400	15.0	11013	18.3	0.08	49.8	0.02	95.9	50
ANY SUNFISH	29444	22.1	5582	9.6	2.26	36.5	1.30	53.0	28
ANY BLACK BASS	94181	17.7	17542	30.6	0.47	38.4	0.05	133.9	98
SMALLMOUTH BASS	36691	23.1	6867	11.9	0.88	55.9	0.09	127.0	43
SPOTTED BASS	913	106.6	160	0.3	0.43		0.00		1
LARGEMOUTH BASS	2381	68.4	435	0.8	0.00		0.00		3
ANY CRAPPIE	20226	40.4	3687	6.6	0.44	25.4	0.16	15.1	21
WALLEYE	20597	26.5	3879	6.7	0.08	94.6	0.05	119.3	27
ANY SPECIES	45442	22.6	8418	14.7	0.54	91.2	0.02	147.0	44
TOTAL	**308259**		**57970**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2009

LAKE=NORRIS

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	CHANNEL CATFISH	0.00	0.00
	FLATHEAD CATFISH	0.00	0.00
ANY SUNFISH			
	BLUEGILL	2.10	1.26
	REDEAR SUNFISH	0.16	0.04
ANY BLACK BASS			
	SMALLMOUTH BASS	0.33	0.01
	SPOTTED BASS	0.15	0.02
	LARGEMOUTH BASS	0.09	0.00
	LARGEMOUTH BASS	0.09	0.00
ANY CRAPPIE			
	ANY CRAPPIE	0.00	0.00
	WHITE CRAPPIE	0.12	0.02
	BLACK CRAPPIE	0.28	0.14
	BLACKNOSE CRAPPIE	0.05	0.00

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=NORRIS

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	17	0.06	1	0.28	11
02 FEBRUARY	0		0	0.05	12
03 MARCH	0		0	0.47	17
04 APRIL	0		0	0.93	13
05 MAY	0		0	0.52	20
06 JUNE	25	0.19	1	0.54	7
07 JULY	0		0	0.07	5
08 AUGUST	0		0	0.14	4
09 SEPTEMBER	5	0.00	2	0.49	9
10 OCTOBER	0		0	0.95	15
11 NOVEMBER	0		0	1.08	16
12 DECEMBER	0		0	0.26	10

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS
FOR INTENDED SPECIES - 2009

LAKE=NORRIS

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
STRIPED BASS	261760	226770	487090	27
ANY SUNFISH	54520	35750	89220	19
ANY BLACK BASS	310620	439630	750250	57
SMALLMOUTH BASS	146010	134430	280440	27
SPOTTED BASS	2000	400	2400	1
LARGEMOUTH BASS	10990	12960	23950	3
ANY CRAPPIE	29200	43910	66550	8
WALLEYE	31420	29920	59260	12
ANY SPECIES	125170	66890	192060	28
TOTAL	**971690**	**990660**	**1951220**	**182**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2009

LAKE=NORRIS

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
KY	61	10.3
TN	492	83.1
OTHERS	39	6.6

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
ANDERSON	140	28.1
CAMPBELL	62	12.4
CLAIBORNE	112	22.5
KNOX	80	16.1
UNION	50	10.0
OTHERS IN TN	48	9.6
OUT-OF-STATE	6	1.2

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	427	72.3
B) 26-100	117	19.8
C) 101-250	12	2.0
D) > 250	35	5.9

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	315	100

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	282	89.5
B) 2-5	28	8.9
C) 6-10	4	1.3
D) 11-15	1	0.3

DOUGLAS

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MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2009

LAKE=DOUGLAS

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	15696	25.2	0.5	3673	0.1	11.2
02 FEBRUARY	23923	21.3	0.8	5134	0.2	17.1
03 MARCH	44738	17.6	1.5	8652	0.3	31.9
04 APRIL	55758	21.5	1.8	11857	0.4	39.8
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TOTAL	**140115**			**29316**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2009

LAKE=DOUGLAS

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	12400	34.8	0.79	23.4	3767	37.3	0.24	26.9
02 FEBRUARY	13397	30.1	0.56	20.9	4067	43.3	0.17	36.7
03 MARCH	38027	24.3	0.85	16.5	18343	26.1	0.41	18.8
04 APRIL	89213	47.2	1.60	41.0	31782	37.0	0.57	29.5
TOTAL	**153037**				**57959**			

SUMMARY OF SPECIES CATCH STATISTICS - 2009

LAKE=DOUGLAS

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
BLUE CATFISH	21	1507.8	0.0	21	21	1507.8	0.0	21	0.0	2.45	1
CHANNEL CATFISH	800	348.0	0.5	182	581	457.2	1.0	182	27.4	1.57	16
WHITE BASS	61825	48.4	40.4	18972	7158	54.5	12.3	5066	88.4	0.90	154
BLUEGILL	3866	149.3	2.5	0	2374	170.5	4.1	0	38.6	0.45	31
SMALLMOUTH BASS	1274	385.4	0.8	51	60	684.8	0.1	30	95.3	2.55	2
LARGEMOUTH BASS	15759	47.6	10.3	12868	1296	124.1	2.2	93	91.8	1.50	14
WHITE CRAPPIE	16619	32.3	10.9	15945	8976	44.1	15.5	8709	46.0	0.84	202
BLACK CRAPPIE	36673	27.4	24.0	33496	27849	31.4	48.0	25324	24.1	0.84	375
BLACKNOSE CRAPPIE	148	266.3	0.1	148	148	266.3	0.3	148	0.0	0.96	6
SAUGER	10393	22.8	6.8	7832	6998	28.1	12.1	5214	32.7	1.30	255
WALLEYE	5097	63.5	3.3	1359	2379	116.4	4.1	958	53.3	2.52	77
FRESHWATER DRUM	139	2203.7	0.1	0	30	2562.5	0.1	0	78.4	2.00	1

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2009

LAKE=DOUGLAS

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	1083	52.5	219	0.8	0.39	85.0	0.39	85.0	4
WHITE BASS	2681	36.5	519	1.9	4.03	29.0	1.70	24.8	10
ANY BLACK BASS	565	73.5	109	0.4	0.09	66.1	0.09	66.1	2
LARGEMOUTH BASS	25733	21.4	5445	18.4	0.73	19.2	0.00		55
ANY CRAPPIE	88135	13.1	18624	62.9	0.94	18.1	0.65	20.3	201
SAUGER	19031	17.0	3827	13.6	0.43	18.1	0.31	20.1	68
WALLEYE	2354	37.6	463	1.7	0.37	30.1	0.29	31.8	9
ANY SPECIES	534	74.3	109	0.4	0.33		0.00		2
TOTAL	**140116**		**29315**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2009

LAKE=DOUGLAS

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.04	0.04
	CHANNEL CATFISH	0.35	0.35
ANY BLACK BASS			
	SMALLMOUTH BASS	0.00	0.00
	LARGEMOUTH BASS	0.49	0.00
ANY CRAPPIE			
	ANY CRAPPIE	0.00	0.00
	WHITE CRAPPIE	0.30	0.17
	BLACK CRAPPIE	0.63	0.48
	BLACKNOSE CRAPPIE	0.00	0.00

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=DOUGLAS

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.52	10
02 FEBRUARY	59	0.61	9	0.51	11
03 MARCH	0		0	0.41	18
04 APRIL	0		0	0.91	9

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2009

LAKE=DOUGLAS

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	270	380	650	4
WHITE BASS	650	3460	4110	10
ANY BLACK BASS	680	820	1500	2
LARGEMOUTH BASS	125350	88510	213860	55
ANY CRAPPIE	40400	110620	151020	198
SAUGER	15260	36130	51390	66
WALLEYE	4400	4230	8630	9
ANY SPECIES	110	270	380	2
TOTAL	**187120**	**244420**	**431540**	**346**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2009

LAKE=DOUGLAS

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	681	94.8
OTHERS	37	5.2

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
COCKE	139	20.3
GREENE	35	5.1
HAMBLEN	89	13.0
JEFFERSON	189	27.6
KNOX	71	10.4
SEVIER	63	9.2
OTHERS IN TN	95	13.9
OUT-OF-STATE	4	0.6

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	540	75.2
B) 26-100	177	24.7
C) 101-250	1	0.1

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	358	100

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	358	100

MELTON HILL RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2009

LAKE=MELTON HILL

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	5538	27.6	1.0	1291	0.2	5.3
02 FEBRUARY	4149	17.4	0.7	1220	0.2	4.0
03 MARCH	11049	30.5	1.9	2805	0.5	10.6
04 APRIL	9272	17.8	1.6	2183	0.4	8.9
05 MAY	16183	30.8	2.8	3995	0.7	15.6
06 JUNE	12332	10.3	2.2	3200	0.6	11.9
07 JULY	11871	14.3	2.1	2678	0.5	11.4
08 AUGUST	10612	4.4	1.9	2012	0.4	10.2
09 SEPTEMBER	11384	8.4	2.0	2406	0.4	11.0
10 OCTOBER	6938	11.9	1.2	1361	0.2	6.7
11 NOVEMBER	2835	23.5	0.5	803	0.1	2.7
12 DECEMBER	1667	22.0	0.3	506	0.1	1.6
TOTAL	**103830**			**24460**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2009

LAKE=MELTON HILL

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	7366	33.3	1.33	18.0	1329	27.6	0.24	0.0
02 FEBRUARY	1494	17.7	0.36	2.7	83	17.4	0.02	0.0
03 MARCH	11049	40.6	1.00	25.5	1215	48.9	0.11	37.0
04 APRIL	7510	21.2	0.81	11.4	927	51.7	0.10	46.1
05 MAY	13756	33.9	0.85	13.5	324	63.2	0.02	53.8
06 JUNE	8386	21.5	0.68	18.7	863	51.0	0.07	51.1
07 JULY	9734	22.4	0.82	17.0	1187	52.0	0.10	51.6
08 AUGUST	9657	17.1	0.91	16.4	743	72.2	0.07	69.2
09 SEPTEMBER	12864	19.7	1.13	17.8	3643	52.8	0.32	51.2
10 OCTOBER	7909	29.9	1.14	27.2	1388	50.7	0.20	48.3
11 NOVEMBER	1503	52.4	0.53	45.3	340	84.4	0.12	80.9
12 DECEMBER	83	107.0	0.05	100.0	0	.	0.00	.
TOTAL	**91311**				**12042**			

SUMMARY OF SPECIES CATCH STATISTICS - 2009

LAKE=MELTON HILL

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CARP	1552	175.2	1.7	1293	0	.	0.0	0	100.0	.	0
BLACK BUFFALO	40	602.6	0.0	40	40	602.6	0.3	40	0.0	3.50	1
BLUE CATFISH	214	353.0	0.2	214	59	524.4	0.5	59	72.4	8.10	2
CHANNEL CATFISH	388	459.7	0.4	388	41	516.9	0.3	41	89.4	8.00	1
MUSKELLUNGE	214	375.7	0.2	214	0	.	0.0	0	100.0	.	0
RAINBOW TROUT	84	361.0	0.1	84	84	361.0	0.7	84	0.0	0.77	3
WHITE BASS	232	607.3	0.3	58	0	.	0.0	0	100.0	.	0
STRIPED BASS	2567	94.2	2.8	781	0	.	0.0	0	100.0	.	0
BLUEGILL	16397	25.9	18.0	15058	4909	34.9	40.8	4909	70.1	0.41	149
SMALLMOUTH BASS	5709	54.2	6.2	5609	59	242.2	0.5	59	99.0	4.13	2
SPOTTED BASS	2580	140.1	2.8	2141	0	.	0.0	0	100.0	.	0
LARGEMOUTH BASS	35678	14.7	39.1	34874	980	43.8	8.1	980	97.3	2.36	29
WHITE CRAPPIE	17695	27.3	19.4	17045	4357	24.7	36.2	4300	75.4	0.96	76
BLACKNOSE CRAPPIE	27	792.8	0.0	27	27	792.8	0.2	27	0.0	1.40	1
YELLOW PERCH	1575	101.1	1.7	1170	894	81.4	7.4	787	43.2	0.72	25
FRESHWATER DRUM	1598	174.4	1.7	1090	0	.	0.0	0	100.0	.	0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2009

LAKE=MELTON HILL

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	2811	32.6	643	2.7	0.19	57.5	0.07	0.0	11
MUSKELLUNGE	5585	19.3	1434	5.4	0.03	124.4	0.00		33
RAINBOW TROUT	142	98.8	33	0.1	0.75		0.75		1
STRIPED BASS	4537	22.5	1135	4.4	0.06	152.4	0.00		26
ANY SUNFISH	2581	36.1	629	2.5	1.53	34.6	0.75	63.1	8
ANY BLACK BASS	36280	9.3	8390	34.9	0.93	19.4	0.03	94.2	193
SMALLMOUTH BASS	422	71.3	104	0.4	0.17		0.00		2
LARGEMOUTH BASS	200	70.8	61	0.2	0.42	82.7	0.00		2
ANY CRAPPIE	13011	14.8	3164	12.5	0.96	33.6	0.28	48.2	91
ANY SPECIES	38258	9.5	8871	36.8	0.60	40.4	0.18	106.1	132
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TOTAL	**103827**		**24464**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2009

LAKE=MELTON HILL

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.07	0.04
	CHANNEL CATFISH	0.12	0.03
ANY SUNFISH			
	ANY SUNFISH	0.00	0.00
	BLUEGILL	1.53	0.75
ANY BLACK BASS			
	SMALLMOUTH BASS	0.15	0.00
	SPOTTED BASS	0.06	0.00
	LARGEMOUTH BASS	0.95	0.03
ANY CRAPPIE			
	WHITE CRAPPIE	0.96	0.28
	BLACKNOSE CRAPPIE	0.00	0.00

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=MELTON HILL

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.17	7
02 FEBRUARY	0		0	0.00	3
03 MARCH	0		0	0.86	12
04 APRIL	0		0	1.14	25
05 MAY	5	0.67	2	1.26	19
06 JUNE	19	1.55	7	0.92	27
07 JULY	4	0.80	4	0.70	25
08 AUGUST	0		0	0.50	14
09 SEPTEMBER	35	1.26	3	1.20	22
10 OCTOBER	32	0.60	4	1.29	16
11 NOVEMBER	0		0	1.43	4
12 DECEMBER	0		0	0.42	2

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2009

LAKE=MELTON HILL

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	12500	5480	17980	11
MUSKELLUNGE	42580	36810	79390	33
RAINBOW TROUT	500	0	500	1
STRIPED BASS	18460	14550	33020	26
ANY SUNFISH	7230	6910	14150	8
ANY BLACK BASS	174010	103920	277930	193
SMALLMOUTH BASS	520	1280	1800	2
LARGEMOUTH BASS	910	2730	3640	2
ANY CRAPPIE	49870	25340	75210	91
ANY SPECIES	73330	21830	95160	132
TOTAL	**379910**	**218850**	**598780**	**499**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2009

LAKE=MELTON HILL

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

LAKE=MELTON HILL

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	940	97.6
OTHERS	23	2.4

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
ANDERSON	484	51.5
KNOX	349	37.1
OTHERS IN TN	107	11.4

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	915	95.2
B) 26-100	24	2.5
C) 101-250	16	1.7
D) > 250	6	0.6

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	489	98.2
B) VACATION	8	1.6
C) BUSINESS	1	0.2

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	481	96.8
B) 2-5	12	2.4
C) 6-10	1	0.2
D) 11-15	1	0.2
F) >20	2	0.4

FORT LOUDON RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2009

LAKE=FT. LOUDOUN

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	13880	50.0	1.0	2610	0.2	6.3
02 FEBRUARY	3680	.	0.3	1338	0.1	1.7
03 MARCH	20668	16.9	1.4	4161	0.3	9.4
04 APRIL	24719	12.9	1.7	5527	0.4	11.2
05 MAY	29268	7.7	2.0	5969	0.4	13.3
06 JUNE	29210	6.1	2.0	6996	0.5	13.2
07 JULY	20915	31.2	1.4	5074	0.3	9.5
08 AUGUST	24608	49.6	1.7	5275	0.4	11.2
09 SEPTEMBER	21144	20.7	1.4	4458	0.3	9.6
10 OCTOBER	15607	7.0	1.1	3698	0.3	7.1
11 NOVEMBER	13437	20.6	0.9	3238	0.2	6.1
12 DECEMBER	3452	31.1	0.2	958	0.1	1.6
TOTAL	**220588**			**49302**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2009

LAKE=FT. LOUDOUN

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	14158	90.5	1.02	67.7	3886	57.7	0.28	26.0
02 FEBRUARY	0	.	0.00	.	0	.	0.00	.
03 MARCH	14881	22.0	0.72	13.9	2894	39.2	0.14	34.3
04 APRIL	44741	14.3	1.81	6.2	10629	31.3	0.43	28.4
05 MAY	57951	10.8	1.98	7.7	5854	12.7	0.20	10.0
06 JUNE	33592	13.4	1.15	11.9	3505	52.4	0.12	53.1
07 JULY	32837	49.3	1.57	36.3	2928	50.0	0.14	36.6
08 AUGUST	29284	50.3	1.19	7.5	3691	71.7	0.15	45.4
09 SEPTEMBER	26853	25.7	1.27	14.9	7189	38.8	0.34	31.7
10 OCTOBER	17636	14.3	1.13	12.5	6711	22.7	0.43	21.6
11 NOVEMBER	19618	26.9	1.46	17.0	7659	28.6	0.57	19.6
12 DECEMBER	8285	57.0	2.40	45.7	5040	55.1	1.46	43.4
TOTAL	**299836**				**59986**			

SUMMARY OF SPECIES CATCH STATISTICS - 2009

LAKE=FT. LOUDOUN

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CARP	237	970.9	0.1	237	49	1200.0	0.1	49	79.3	22.50	1
BLUE CATFISH	4923	98.0	1.6	4841	2536	87.2	4.2	2464	48.5	6.22	35
CHANNEL CATFISH	2342	184.8	0.8	2155	742	212.8	1.2	607	68.3	5.08	11
WHITE BASS	15842	72.5	5.3	10525	813	130.1	1.4	452	94.9	1.41	9
STRIPED BASS	12257	76.2	4.1	3960	0	.	0.0	0	100.0	.	0
BLUEGILL	35974	28.5	12.0	26464	10247	33.8	17.1	7912	71.5	0.58	158
SMALLMOUTH BASS	17345	45.0	5.8	14984	363	170.1	0.6	363	97.9	3.16	5
SPOTTED BASS	2364	273.6	0.8	2273	0	.	0.0	0	100.0	.	0
LARGEMOUTH BASS	89841	14.6	29.9	83179	2363	44.0	3.9	2268	97.4	2.89	25
WHITE CRAPPIE	96979	14.4	32.3	95622	37742	15.0	62.9	37592	61.1	0.97	502
BLACK CRAPPIE	3430	101.9	1.1	3430	2628	81.4	4.4	2628	23.4	1.19	34
BLACKNOSE CRAPPIE	248	896.4	0.1	248	120	582.9	0.2	120	51.6	1.20	2
FRESHWATER DRUM	3402	236.4	1.1	928	0	.	0.0	0	100.0	.	0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2009

LAKE=FT. LOUDOUN

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	14431	19.6	3241	6.5	0.70	43.9	0.25	48.8	36
WHITE BASS	2901	49.0	651	1.3	1.62		0.00		3
STRIPED BASS	2654	45.0	590	1.2	1.03	210.9	0.00		6
ANY SUNFISH	6114	30.2	1380	2.8	2.50	53.8	1.40	41.9	14
ANY BLACK BASS	78936	11.1	17384	35.8	1.23	19.3	0.03	115.6	226
SMALLMOUTH BASS	710	71.5	154	0.3	0.77		0.15		2
LARGEMOUTH BASS	1002	56.7	245	0.5	0.46	0.0	0.09	0.0	4
ANY CRAPPIE	62013	10.0	13850	28.1	1.74	23.5	0.75	23.6	167
SAUGER	3139	18.7	990	1.4	0.00		0.00		5
ANY SPECIES	48685	12.4	10819	22.1	0.70	29.5	0.08	106.9	81
TOTAL	**220585**		**49304**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2009

LAKE=FT. LOUDOUN

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.48	0.20
	CHANNEL CATFISH	0.22	0.05
ANY SUNFISH			
	BLUEGILL	2.50	1.40
ANY BLACK BASS			
	SMALLMOUTH BASS	0.19	0.00
	SPOTTED BASS	0.03	0.00
	LARGEMOUTH BASS	1.03	0.03
ANY CRAPPIE			
	WHITE CRAPPIE	1.68	0.70
	BLACK CRAPPIE	0.06	0.05
	BLACKNOSE CRAPPIE	0.00	0.00

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=FT. LOUDOUN

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.19	8
03 MARCH	0		0	0.72	23
04 APRIL	26	1.50	3	1.92	18
05 MAY	0		0	1.48	37
06 JUNE	4	0.00	4	1.27	15
07 JULY	3	1.00	2	1.08	24
08 AUGUST	24	0.30	4	1.18	22
09 SEPTEMBER	3	0.67	2	1.51	27
10 OCTOBER	0		0	1.21	26
11 NOVEMBER	0		0	1.35	14
12 DECEMBER	0		0	0.00	3

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS
FOR INTENDED SPECIES - 2009

LAKE=FT. LOUDOUN

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	45800	21050	66850	36
WHITE BASS	35690	2620	38300	3
STRIPED BASS	7590	8490	16080	6
ANY SUNFISH	15800	6280	22070	14
ANY BLACK BASS	386360	404730	791090	226
SMALLMOUTH BASS	3920	1920	5840	2
LARGEMOUTH BASS	6890	3830	10720	4
ANY CRAPPIE	198060	82160	280210	167
SAUGER	13690	4110	17800	5
ANY SPECIES	110130	24680	134810	81
TOTAL	**823930**	**559870**	**1383770**	**544**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2009

LAKE=FT. LOUDOUN

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	1020	99.7
OTHERS	3	0.3

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BLOUNT	435	42.5
KNOX	453	44.3
LOUDON	65	6.4
OTHERS IN TN	67	6.5
OUT-OF-STATE	3	0.3

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	995	97.3
B) 26-100	26	2.5
C) 101-250	2	0.2

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	543	99.8
B) VACATION	1	0.2

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	541	99.4
B) 2-5	3	0.6

BOONE

RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2009

LAKE=BOONE

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
11 NOVEMBER	11027	25.6	2.4	1785	0.4	82.5
12 DECEMBER	2342	29.2	0.5	467	0.1	17.5
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TOTAL	**13369**			**2252**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2009

LAKE=BOONE

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
11 NOVEMBER	14225	58.3	1.29	50.8	3529	81.0	0.32	75.5
12 DECEMBER	1101	61.0	0.47	51.8	164	112.6	0.07	100.0
TOTAL	**15326**				**3693**			

SUMMARY OF SPECIES CATCH STATISTICS - 2009

LAKE=BOONE

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
FLATHEAD CATFISH	107	1118.2	0.7	0	0	.	0.0	0	100.0	.	0
STRIPED BASS	3105	74.4	20.3	2604	271	169.6	7.3	136	91.3	7.88	2
CHEROKEE BASS	1567	194.7	10.2	0	0	.	0.0	0	100.0	.	0
BLUEGILL	2066	201.0	13.5	115	1086	209.3	29.4	0	47.4	0.26	8
SMALLMOUTH BASS	1974	96.3	12.9	1847	0	.	0.0	0	100.0	.	0
SPOTTED BASS	746	340.7	4.9	107	407	365.6	11.0	0	45.4	0.97	3
LARGEMOUTH BASS	1965	88.2	12.8	1762	543	139.9	14.7	543	72.4	2.58	4
WHITE CRAPPIE	535	492.0	3.5	535	0	.	0.0	0	100.0	.	0
BLACK CRAPPIE	3033	164.3	19.8	3033	1358	175.5	36.8	1358	55.2	0.82	14
BLACKNOSE CRAPPIE	203	213.0	1.3	203	27	359.4	0.7	27	86.7	0.80	1

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2009

LAKE=BOONE

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	138	89.8	27	1.0	0.00		0.00		1
STRIPED BASS	4916	35.8	801	36.8	0.36	15.5	0.01	169.1	9
ANY BLACK BASS	6156	29.5	1048	46.1	0.57	30.2	0.06	95.7	24
ANY CRAPPIE	1814	53.2	307	13.6	2.39	58.6	0.74	58.3	6
ANY SPECIES	344	59.0	69	2.6	0.20	54.9	0.00		4
TOTAL	**13368**		**2252**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2009

LAKE=BOONE

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	FLATHEAD CATFISH	0.00	0.00
ANY BLACK BASS			
	SMALLMOUTH BASS	0.30	0.00
	SPOTTED BASS	0.02	0.00
	LARGEMOUTH BASS	0.29	0.09
ANY CRAPPIE			
	WHITE CRAPPIE	0.34	0.00
	BLACK CRAPPIE	1.92	0.73
	BLACKNOSE CRAPPIE	0.13	0.01

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=BOONE

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
11 NOVEMBER	0		0	0.53	10
12 DECEMBER	0		0	0.70	14

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2009

LAKE=BOONE

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	270	480	750	1
STRIPED BASS	68960	79010	147970	9
ANY BLACK BASS	23460	24830	48290	24
ANY CRAPPIE	8350	4350	12700	6
ANY SPECIES	690	1630	2320	4
TOTAL	**101730**	**110300**	**212030**	**44**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2009

LAKE=BOONE

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	59	84.3
WV	8	11.4
OTHERS	3	4.3

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
CARTER	8	13.6
SULLIVAN	28	47.5
UNICOI	3	5.1
WASHINGTON	17	28.8
OTHERS IN TN	3	5.1

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	56	80.0
B) 26-100	5	7.1
C) 101-250	9	12.9

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	47	100

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	43	91.5
B) 2-5	4	8.5

WATAUGA

RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2009

LAKE=WATAUGA

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
11 NOVEMBER	2853	42.2	0.4	550	0.1	35.8
12 DECEMBER	5120	57.6	0.8	979	0.2	64.2
TOTAL	**7973**			**1529**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2009

LAKE=WATAUGA

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
11 NOVEMBER	1369	.	0.48	.	656	.	0.23	.
12 DECEMBER	2304	65.5	0.45	27	410	130.2	0.08	100
TOTAL	**3673**				**1066**			

SUMMARY OF SPECIES CATCH STATISTICS - 2009

LAKE=WATAUGA

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CHANNEL CATFISH	114	130.6	3.1	114	114	130.6	10.7	114	0.0	2.89	2
BLUEGILL	184	314.2	5.0	0	0	.	0.0	0	100.0	.	0
SMALLMOUTH BASS	1791	54.9	48.8	1727	527	64.6	49.5	492	70.6	2.82	15
SPOTTED BASS	833	99.5	22.7	833	123	180.5	11.5	123	85.2	1.15	6
LARGEMOUTH BASS	563	87.9	15.3	563	114	77.8	10.7	114	79.8	3.33	2
WALLEYE	187	.	5.1	187	187	.	17.6	187	0.0	3.65	2

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2009

LAKE=WATAUGA

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY TROUT	285	116.6	55	3.6	0.00		0.00		1
ANY BLACK BASS	5257	44.3	1008	65.9	0.35	34.1	0.16	70.8	15
SMALLMOUTH BASS	197	155.3	38	2.5	1.18		0.59		2
ANY CRAPPIE	197	155.3	38	2.5	0.00		0.00		1
WALLEYE	591	98.5	113	7.4	0.00		0.00		2
ANY SPECIES	1447	57.5	278	18.1	0.47	66.4	0.32	65.7	4
TOTAL	**7974**		**1530**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2009

LAKE=WATAUGA

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY BLACK BASS			
	SMALLMOUTH BASS	0.32	0.09
	SPOTTED BASS	0.15	0.02
	LARGEMOUTH BASS	0.10	0.02

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=WATAUGA

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
11 NOVEMBER	0		0	0.32	6
12 DECEMBER	0		0	0.40	11

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2009

LAKE=WATAUGA

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY TROUT	0	1370	1370	1
ANY BLACK BASS	21930	18540	40480	15
SMALLMOUTH BASS	3760	940	4710	1
ANY CRAPPIE	450	1130	1580	1
WALLEYE	850	5930	6780	2
ANY SPECIES	4320	5000	9320	4
TOTAL	**31310**	**32910**	**64240**	**24**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2009

LAKE=WATAUGA

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	35	97.2
OTHERS	1	2.8

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BLOUNT	4	11.4
CARROLL	2	5.7
CARTER	22	62.9
UNICOI	4	11.4
WASHINGTON	2	5.7
OTHERS IN TN	1	2.9

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	26	72.2
B) 26-100	6	16.7
C) 101-250	4	11.1

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	25	100

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	24	96
B) 2-5	1	4

Appendix I

Field Data Collection Forms

Tennessee Wildlife Resources Agency
Reservoir Angler Count

1. Calendar Date____/____/____
   mm dd yy

2. Day Period: am or pm (Circle One)

3. Reservoir _____ (Code)

4. Area _____

5. Clerk ID _____ (TWRA Radio Numbers)

6. Survey Method: Roving or Access Point (Circle)

7. Count of Bank Anglers _____

8. Count of Boat Anglers _____

9. Comments _____

_____

_____

_____

_____

_____

_____

_____

_____

Form No. WR-0795 (Rev. 11-00)
RDA 1455

Tennessee Wildlife Resources Agency
Reservoir Angler Survey

(Questions in bold represent angler contact questions)

1. Calendar Date____/____/_____ 2. Reservoir _____ (Code) 3. Area _____
mm dd yy

4. Angler Type: Bank or Boat (Circle) **5. Hours Fished ____.___**

6. How many more hours do you plan to fish today? ____.___ (indicate completed trip with a zero)

7. Party Size ____ (No. of anglers)

8. Principal Species Fished For: (Circle One)
997=any species, 370=crappie, 360=black bass, 364=LM bass, 362=SM bass, 363=SP bass, 345=sunfish, 238=catfish, 492=walleye, 491=sauger, 493 =saugeye, 282=trout, 287=lake trout, 279=rainbow trout, 284=brown trout, 325=temperate bass, 328=striped bass, 326=white bass, 329=cherokee bass, 268=musky, 16=other

Fish Harvest Information (for party):

Species Code	No. Harvested	Bulk Weight (lbs.)	No. Released
		.	
		.	
		.	
		.	
		.	
		.	

Economic Section

9. State of Residence _____ (Code) **10. County of Residence** _____ (Code)

11. Miles from Home to Lake ____ (1 = 0-25 mi., 2 = 26-100 mi., 3 = 101-250 mi., 4 = over 250 mi.)

12. Reason for Trip ____ (1 = Fishing, 2 = Vacation, 3 = Business, 4 = Other)

13. No. of days in Trip _____

Clerk: *"I would now like to ask you some questions about the value of your fishing trip. It is important to the TWRA to estimate the value of reservoir sportfisheries. The next two questions will be used only to calculate this economic estimate."*

14. How much money will you spend on today's fishing trip for things like gas, food, bait, lodging, guides, etc.? $_____

15. How much more than $*value above* **would you be willing to pay to fish here per day, if for example, it just kept getting more and more expensive to make this trip?** $_____

Tournament Section

16. Was the angler(s) fishing in a tournament during the interview? Yes_____ No_____

Form No. WR-0794 (Rev. 12-01)
RDA 1455

Final Report

Enclosure 6

Tennessee Reservoir Creel Survey

2010 Results

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June 2011

Table of Contents

Page

Program Overview 6

Statewide

Statewide Angling Effort for All Anglers, by Lake – 2010 13
Statewide Angling Effort for Intended Species – 2010 14
Statewide Catch Statistics for All Anglers, By Lake – 2010 15
Statewide Fishing Effort and Catch Rates, by Lake, for Intended Species – 2010 16
Statewide Summary of Trip Expenditures and Consumer Surplus, by Lake - 2010 30
Statewide Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2010 31

TWRA Region I

Kentucky Reservoir

Monthly Angling Effort for All Anglers – 2010 34
Monthly Catch Statistics for All Anglers – 2010 35
Summary of Species Catch Statistics – 2010 36
Summary of Fishing Effort and Catch Rates for Intended Species – 2010 37
Summary of Relative Species Catch Rates Within Target Groups - 2010 38
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 39
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2010 40
Summary of Sociological Questions - 2010 41

Kentucky 1 - North Reservoir

Monthly Angling Effort for All Anglers – 2010 43
Monthly Catch Statistics for All Anglers – 2010 44
Summary of Species Catch Statistics – 2010 45
Summary of Fishing Effort and Catch Rates for Intended Species – 2010 46
Summary of Relative Species Catch Rates Within Target Groups - 2010 47
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 48
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2010 49
Summary of Sociological Questions – 2010 50

Kentucky 2 - South Reservoir

Monthly Angling Effort for All Anglers – 2010 52
Monthly Catch Statistics for All Anglers – 2010 53
Summary of Species Catch Statistics – 2010 54
Summary of Fishing Effort and Catch Rates for Intended Species – 2010 55
Summary of Relative Species Catch Rates Within Target Groups - 2010 56
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 57
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2010 58
Summary of Sociological Questions - 2010 59

Reelfoot Lake

Monthly Angling Effort for All Anglers – 2010 61
Monthly Catch Statistics for All Anglers – 2010 62
Summary of Species Catch Statistics – 2010 63
Summary of Fishing Effort and Catch Rates for Intended Species – 2010 64
Summary of Relative Species Catch Rates Within Target Groups - 2010 65
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 66
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2010 67
Summary of Sociological Questions - 2010 68

TWRA Region II

Tims Ford Reservoir

Monthly Angling Effort for All Anglers – 2010 71
Monthly Catch Statistics for All Anglers – 2010 72

Summary of Species Catch Statistics – 2010 …… 73
Summary of Fishing Effort and Catch Rates for Intended Species – 2010 …… 74
Summary of Relative Species Catch Rates Within Target Groups - 2010 …… 75
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 76
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2010 …… 77
Summary of Sociological Questions - 2010 …… 78

Normandy Reservoir

Monthly Angling Effort for All Anglers – 2010 …… 80
Monthly Catch Statistics for All Anglers – 2010 …… 81
Summary of Species Catch Statistics – 2010 …… 82
Summary of Fishing Effort and Catch Rates for Intended Species – 2010 …… 83
Summary of Relative Species Catch Rates Within Target Groups - 2010 …… 84
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 85
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2010 …… 86
Summary of Sociological Questions - 2010 …… 87

Percy Priest Reservoir

Monthly Angling Effort for All Anglers – 2010 …… 89
Monthly Catch Statistics for All Anglers – 2010 …… 90
Summary of Species Catch Statistics – 2010 …… 91
Summary of Fishing Effort and Catch Rates for Intended Species – 2010 …… 92
Summary of Relative Species Catch Rates Within Target Groups – 2010…… 93
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 94
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2010 …… 95
Summary of Sociological Questions - 2010 …… 96

Old Hickory Reservoir

Monthly Angling Effort for All Anglers – 2010 …… 98
Monthly Catch Statistics for All Anglers – 2010 …… 99
Summary of Species Catch Statistics – 2010 …… 100
Summary of Fishing Effort and Catch Rates for Intended Species – 2010 …… 101
Summary of Relative Species Catch Rates Within Target Groups - 2010 …… 102
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 103
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2010 …… 104
Summary of Sociological Questions - 2010 …… 105

TWRA Region III

Center Hill Reservoir

Monthly Angling Effort for All Anglers – 2010 …… 108
Monthly Catch Statistics for All Anglers – 2010 …… 109
Summary of Species Catch Statistics – 2010 …… 110
Summary of Fishing Effort and Catch Rates for Intended Species – 2010 …… 111
Summary of Relative Species Catch Rates Within Target Groups - 2010 …… 112
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 113
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2010 …… 114
Summary of Sociological Questions - 2010 …… 115

Chickamauga Reservoir

Monthly Angling Effort for All Anglers – 2010 …… 117
Monthly Catch Statistics for All Anglers – 2010 …… 118
Summary of Species Catch Statistics – 2010…… 119
Summary of Fishing Effort and Catch Rates for Intended Species – 2010 …… 120
Summary of Relative Species Catch Rates Within Target Groups - 2010 …… 121
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 122
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2010 …… 123
Summary of Sociological Questions - 2010 …… 124

Watts Bar Reservoir

Monthly Angling Effort for All Anglers – 2010 ……..……..……..……... 126
Monthly Catch Statistics for All Anglers – 2010 ……..……..…..……..……..... 127
Summary of Species Catch Statistics – 2010 ……..……..…….…… 128
Summary of Fishing Effort and Catch Rates for Intended Species – 2010 …….…….…… 129
Summary of Relative Species Catch Rates Within Target Groups - 2010 ……...…… 130
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 131
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2010 …… 132
Summary of Sociological Questions - 2010 ……....……..……..…… 133

Dale Hollow Reservoir

Monthly Angling Effort for All Anglers – 2010 ……..……..……..……... 136
Monthly Catch Statistics for All Anglers – 2010 ……..……..…..……..……..... 137
Summary of Species Catch Statistics – 2010 ……..……..…….…… 138
Summary of Fishing Effort and Catch Rates for Intended Species – 2010 ……..…….…… 139
Summary of Relative Species Catch Rates Within Target Groups - 2010 ……...…… 140
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 141
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2010 …… 142
Summary of Sociological Questions - 2010 ……....……..……..…… 143

TWRA Region IV

Norris Reservoir

Monthly Angling Effort for All Anglers – 2008.……..……..……..……... 146
Monthly Catch Statistics for All Anglers – 2008 ……..……..…..……..……..... 147
Summary of Species Catch Statistics – 2008 …....……..…….…… 148
Summary of Fishing Effort and Catch Rates for Intended Species – 2008 …….…….…… 149
Summary of Relative Species Catch Rates Within Target Groups - 2008 ……...…… 150
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 151
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2008 …… 152
Summary of Sociological Questions - 2008 ……....……..……..…… 153

Melton Hill Reservoir

Monthly Angling Effort for All Anglers – 2010 ……..……..……..……... 155
Monthly Catch Statistics for All Anglers – 2010 ……..……..…..……..……..... 156
Summary of Species Catch Statistics – 2010 ……..……..…….…… 157
Summary of Fishing Effort and Catch Rates for Intended Species – 2010 …….…….…… 158
Summary of Relative Species Catch Rates Within Target Groups - 2010 ……...…… 159
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 160
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2010 …… 161
Summary of Sociological Questions - 2010 ……....……..……..…… 162

Tellico Reservoir

Monthly Angling Effort for All Anglers – 2010 ……..……..……..……... 164
Monthly Catch Statistics for All Anglers – 2010.……..……..…..……..……..... 165
Summary of Species Catch Statistics – 2010 ……..……..…….…… 166
Summary of Fishing Effort and Catch Rates for Intended Species – 2010 …….…….…… 167
Summary of Relative Species Catch Rates Within Target Groups - 2010 ……...…… 168
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 169
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2010 …… 170
Summary of Sociological Questions - 2010 ……....……..……..…… 171

Boone Reservoir

Monthly Angling Effort for All Anglers – 2010 ……..……..……..……... 173
Monthly Catch Statistics for All Anglers – 2010 ……..……..…..……..……..... 174
Summary of Species Catch Statistics – 2010 …...……..……..…… 175
Summary of Fishing Effort and Catch Rates for Intended Species – 2010 …….…….…… 176
Summary of Relative Species Catch Rates Within Target Groups - 2010 ……...…… 177
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 178
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2010 …… 179
Summary of Sociological Questions - 2010 ……....……..……..…… 180

South Holston Reservoir

Monthly Angling Effort for All Anglers – 2010 ……..……..……..……... 182
Monthly Catch Statistics for All Anglers – 2010 ……..……..…..……..……..... 183
Summary of Species Catch Statistics – 2010……..……..……..…… 184
Summary of Fishing Effort and Catch Rates for Intended Species – 2010 …….……..…… 185
Summary of Relative Species Catch Rates Within Target Groups - 2010 ……...…… 186
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 187
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2010 …… 188
Summary of Sociological Questions - 2010 …….....……..……..…… 189

Appendix I

TWRA Reservoir Angler Count Form ……. 191
TWRA Reservoir Angler Survey Form ……. 192

Program Overview

This document provides a summary of data collected by Tennessee Wildlife Resource Agency (TWRA) personnel for the statewide reservoir angler creel survey for the 2010 calendar year. Creel surveys were used to assess the fisheries of 15 reservoirs throughout Tennessee. Although both roving and access point creel surveys are used in the creel program, all reservoirs sampled in 2010 employed roving methods. Both methods will be described since both are available to the reservoir managers. This overview contains descriptions of: 1) survey designs, 2) sampling methodologies, and 3) analytical methods. Each description is divided into roving and access point surveys. The roving survey descriptions give a more thorough account of the methodology; access point survey descriptions only list methods that differed from roving surveys. The roving and access point creel survey designs were adopted from methods described by Malvestuto et al. (1978), Malvestuto (1996) and St. John (1992). The intention of this narrative is to provide readers with a brief overview of the statistical sampling framework.

Survey Designs

Creel clerks conducted surveys on 18 reservoirs with active, on-site methods whereby anglers were interviewed either during, or immediately following, fishing trips. Fishery-dependent information collected included: angler effort, trip duration, target preferences, catch, harvest, release, demographic measures, economic values and individual status as a tournament angler. Seventeen of the reservoirs were sampled using roving creel survey designs while one of the reservoirs (Normandy) was sampled with access point creel survey methods.

(Roving Surveys)

The roving survey method used non-uniform probability, stratified random sampling to maximize sampling efficiency and minimize bias. Each reservoir was divided into a number of sections. The area of a section was originally defined by the ability of a creel clerk to complete a circuit in about 1 to 1.5 hours. Each area within a reservoir was assigned a sampling probability based on expected angler use within each of 12 monthly time blocks. The sum of the area probabilities equaled 1.0. The fishing day was defined as the period of time from sunrise to sunset. Fishing days were divided into two sampling periods in which the period from sunrise to sunset was divided into two roughly equal periods. Sampling periods also were assigned probabilities based on expected angler use within each month, and these summed to 1.0. Sampled days were divided into two strata (weekend days and weekday days) to homogenize the distributions of angler occurrence, assuming that anglers would be more abundant during weekend samples when a greater proportion of the angling population would be expected to have more time for recreation.

Random work schedules were created prior to the beginning of the 2008 survey year. Within any given month, a predetermined number of days was allocated to each day-type (weekend and weekday). Calendar days then were randomly chosen each month for each day-type. Within each sample day, secondary sampling units consisted of all the possible combinations of time periods (2) and lake sections. Probabilities for secondary sample units were derived by multiplying the time period probability by the lake section probability. Secondary sampling unit probabilities summed to 1.0 for any given lake. One secondary sampling unit was randomly chosen each day; that is to say, each sample day, creel clerks worked one ½-day period within a single, pre-defined lake section.

(Access Point Surveys)

Although the sampling methodology for the access point creel surveys differed from the roving surveys, the framework used to determine the sampling designs was basically the same. The one exception was the substitution of angler access points (boat ramps) for reservoir areas. The secondary sample units comprised all combinations of access points and time periods, and the secondary sampling unit probabilities summed to 1.0. During each sample day, creel clerks worked one ½-day period at a single access point.

Sample Methodology

(Roving Surveys)

Creel clerks collected data during the scheduled work periods described previously. A roving creel survey sample consisted of two parts: angler counts and angler interviews. Daily counts of anglers were taken within the sample period by making a circuit of the lake concurrently with interviews during a single circuit of the lake section within a ½-day sampling period (count-as-you-go method). The count-as-you-go method required that check stations be established at ¼-way points on the route to enable clerks to stay on schedule and finish the single circuit during the allotted time. Travel direction was randomly determined by coin toss. All anglers fishing from either boats or from the shore were counted.

Creel clerks interviewed as many anglers as possible during a sample period. If there were more anglers than could be interviewed, then angling parties were systematically skipped to ensure that interviews were collected throughout the entire reservoir section in the allotted time.

Upon approaching anglers, creel clerks recorded information, which did not require interrupting fishing, including date, reservoir, sample area, fishing from the bank or a boat, and the number of anglers in the fishing party. When the clerk reached the angler or angling group, he asked if they would mind spending a few moments answering questions related to the fishing trip. If anglers did not wish to be interrupted, then the creel clerk moved on. If anglers did not mind responding to the interview, then the clerk asked how long they had been fishing, how much longer they expected to fish, what their primary target species was, what state and county they were from, the distance they traveled from home, the reason for the trip, the number of days in the trip, dollar amount of trip expenditures, and the additional amount of money they would be willing to spend if daily expenditures were to increase. The anglers were also categorized as a tournament (actively fishing in a tournament at the time of the interview) or a non-tournament angler. The creel clerk counted all fish harvested and recorded the bulk weight of each harvested species. Anglers were also asked how many of each species had been released. Each respondent's answers were recorded on pre-printed survey forms using TWRA survey codes. Since anglers were interviewed before completing their fishing trips with roving surveys, interview data from roving surveys were based on uncompleted fishing trips.

(Access Point Surveys)

Access point surveys differed from roving creel surveys in that anglers were not interviewed until they had finished fishing and were leaving the water at an access site. Thus, interview data from access point surveys were based on competed fishing trips. During any given ½-day sampling period, the creel clerk waited at a boat ramp and interviewed anglers as they left using the same interview format as used for roving surveys. All anglers leaving access sites were counted and as many as possible were interviewed.

Analytical Methods

Creel surveys conducted by TWRA used randomized sampling designs which, taken alone, only provide information about small portions of each reservoir fishery. To provide meaningful estimates about the populations from which the samples were drawn, the sample values must be expanded over space and time. The following narrative describes the calculations for these data expansions for any given reservoir. To assess the efficiency of the sampling effort and the variability of the estimates, relative standard errors (RSE) were calculated where possible. The RSE is the standard error (se) of an estimated value (y), expressed as a percentage of that value, or RSE = (se/y) x 100. Mathematical formulas for the following estimates were given by Malvestuto et al. (1978).

(Roving Surveys)

Fishing Effort

Estimates of fishing effort were calculated using daily angler counts and the number of hours within a sample period. Thus, for any given sampling period, fishing effort measured in angler-hours (e) was calculated as the product of the total angler count (c) and the number of hours assigned to the sampling period (h), or e = c(h). This value estimates total angler-hours for a single lake section within a single time period, which must be expanded to an estimate of angler-hours for the entire lake for the whole day. This expansion is accomplished by dividing e by the probability for the secondary sampling unit (time period/lake section) worked that day. For example, if the time period probability was 0.5 and the lake section probability was 0.4, then the secondary sampling unit probability is 0.5 x 0.4, or 0.20, so an estimate of e=100 angler-hours for a given secondary unit would be expanded to 100/0.2 or 100 x 5 = 500 angler-hours for the whole lake for that entire day (E).

To derive estimates of total monthly fishing effort, means were taken across the daily values of E within each day-type stratum each month. These two daily mean values of fishing effort (one for weekends and one for weekdays) were weighted by the proportional number of those day types within each month (e.g. weekend weight = no. weekend-days/ total days in month), and then summed to provide a mean daily estimate of fishing effort for the month. This mean daily value then was multiplied by the total number of days in the month to give total monthly effort for the entire lake (T). Intended monthly fishing effort for a given species, or species group, was computed as the proportion of interviewed anglers fishing for that group times total monthly fishing effort. So, for example, if 25% of the anglers interviewed were fishing for black bass, the monthly-intended fishing effort for black bass would be 0.25(T).

Catch Rates (CPE, HPE and RPE)

Catch-per-unit-effort or CPE = the number of fish caught per hour, which includes fish harvested plus fish released back into the water. For roving creel surveys, CPE values are based on the number of fish caught by anglers at the time of interview (uncompleted fishing trips). For the following description, release or harvest values may be substituted for catch values to derive release per angler-hour, RPE, or harvest per angler-hour, HPE.

For each interview on a given sample day, the total number of fish caught by all anglers in the fishing party (n) was divided by the total time all anglers in the party had spent fishing (f) up to the point they were interviewed. These individual party CPE values (n/f) then were averaged to provide a daily CPE. A mean was taken across the daily CPE values within each day-type stratum, and then these weekday and weekend means were weighted and summed (as described for daily fishing effort above) to give a mean daily CPE for the month. This mean daily value is representative of the month as a whole, and becomes the monthly CPE estimate for all species combined.

Catch, Harvest and Release

Total daily catch for an entire reservoir (C) was calculated by multiplying the total daily effort (E) by the daily CPE estimate. The same process was applied to release and harvest data to derive total daily release (R) and total daily harvest (H). The daily total catch values were used to calculate a mean daily catch within each day-type stratum each month. The mean daily catch values for weekdays and weekends were weighted and summed across day types, as done for effort and CPE above, to derive a mean daily catch for the month. This mean daily value then was multiplied by the number of days in the month (as done for fishing effort) to estimate total monthly catch (M).

Estimates of catch for individual species were calculated from the percent composition of individual species recorded during interviews. For example, if a given species accounted for 40% of the total number of fish recorded during any given month, then the total monthly catch for that species would be 0.4(M).

Intended Species Catch Rates

Catch rates (CPE, RPE and HPE) for anglers targeting certain species were calculated based on interviews of anglers who intended to catch those species. For computations, interviews from anglers intending to catch various species were grouped. Catch rates for intended species were calculated for each interview by

summing the number of fish caught of that species and dividing by fishing effort for all anglers in the party. A mean CPE then was taken across interviews within intended species categories to provide the intended species catch rates.

Caution should be exercised when interpreting these data since many of the target species groups were general categories (e.g. black bass, crappie) while other valid responses were more specific (e.g. largemouth bass, smallmouth bass). Anglers were asked to be as specific as possible with regard to their target species, but often no discrimination was made between individual species within general groups. For example, calculations made for black bass only include data taken from anglers who stated black bass to be their target species group. The black bass category does not include values from anglers who specified they were fishing for largemouth bass or smallmouth bass. Calculations for these species are presented within their own categories. To obtain a true estimate of effort for black bass, all categories for black bass species, including the general category, must be summed (i.e. true total black bass effort = black bass effort + largemouth bass effort + smallmouth bass effort). The CPE estimates for intended species, however, are not additive since each estimate is based on a different value of intended fishing effort in the denominator, i.e., the fractions do not have a common denominator as they stand.

Relative Species Catch Rates

Relative catch rates are the proportional catch rates of individual species within the general intended species groups. These rates were computed by multiplying the intended catch rate for a given species group by the proportion of relevant species recorded in the creel. So, for example, if the intended catch rate for crappie is 1.8 fish/h, and black crappie represented 25% of the crappie in the creel and white crappie represented the remaining 75%, then the intended rate of 1.8 was partitioned into 1.8(.25) = 0.45 for black crappie and 1.8(.75) = 1.35 for white crappie. These relations do not hold for black bass, however, because there were usually more than one black bass intended catch rate (e.g., general black bass, largemouth bass, smallmouth bass, etc.), so there was no single rate to partition. The intended rates are not additive, as explained above, so the sum of the intended rates cannot serve as the single rate for black bass to be partitioned. So, the relative CPE values for black bass species were computed by generating a new total black bass catch rate by summing the monthly total catches of all black bass species in the numerator, and dividing by the sum of total monthly-intended fishing effort for all black bass in the denominator. This value then was partitioned by the proportion of each black bass species recorded in the creel. Although the species relative catch rates for black bass sum to this new total rate, the new rate is not a pure intended catch rate and thus is not reported elsewhere in the report. In summary, relative catch rates basically reflect the species composition of the catch within intended species groups, and thus do not represent true catch rates for those individual species, as do the intended rates.

Economic Values

Anglers were asked to give estimates of daily trip expenditures for items, which included fuel, food, bait, lodging and guides fees. They were also asked how much additional money they would be willing to spend if daily trip costs were to increase in the future. This value is anglers' willingness to pay above actual costs, and represents anglers' consumer surplus. Consumer surplus is equivalent to the amount of money that anglers would be willing to spend for the opportunity to fish a given resource, over-and-above what they actually have to spend. This amount of money is the theoretical profit associated with the fishery, as if it were privately owned. This value is necessary to compute so that the profit associated with recreational fisheries in Tennessee can be compared to other more traditional industries. Money spent for trip preparation and travel to the reservoirs (fuel, food, bait, etc.) is funneled into other businesses that provide goods and services enabling anglers to go fishing; this money, in turn, employs people in these business, and is re-cycled in the local economies, generating more goods, services and profits. Both components of economic value, trip expenditures and consumer surplus, sum to provide an estimate of total angler-oriented value.

Total monthly estimates of trip expenditures and consumer surplus were computed by multiplying the median dollar values per trip by the total number of angler-trips estimated for the month. This was first done for each intended species group and then the intended species values were summed to give the total monthly economic estimates. Median trip values for the economic responses were used because frequency distributions of expenditures per trip and consumer surplus per trip were skewed to the left, such that means were generally higher than medians, and thus the more conservative median values were used in the computations.

Tournament Status

Beginning in 2002, all anglers were asked if they were actively fishing in a tournament at the time of the interview. Each interview record was coded as yes (tournament fishing), or no (not tournament fishing). Analyses involving tournament angling were restricted to those individuals targeting black basses. Black bass Catch rates (CPE) were calculated for tournament anglers as well as non tournament angler. For comparison, percent of black bass effort and catch rates for by angler type were printed in tables at the end of each reservoir section in the report

(Access Point Surveys)

This section only describes estimates, which differ in computation from the roving survey methods. These differences include estimating fishing effort and catch rates. All other estimates were calculated the same way for the two survey techniques.

Fishing Effort

The standard difference between roving and access point surveys with respect to derivation of fishing effort is how angler-hours for the sample period are estimated. For roving surveys as described above, sample period effort is estimated as the angler count times the number of hours in the sample period. For access point surveys, however, angler-hours for the sample period is simply the sum of angler-hours recorded from completed trip interviews at the access point. This assumes that all anglers who exited the site were interviewed. If all anglers could not be interviewed upon exit, then angler-hours for the sample period were estimated as the mean completed trip time computed from interviews, times the total number of anglers who exited the site. Once sample period effort is computed, the computational techniques for access point surveys followed those outlined above for roving surveys.

In 2008, Normandy Reservoir was sampled using the access point survey method. To maximize work time efficiency during the initial year, only the major access sites were sampled. In order to expand the daily ramp effort to lake wide totals, monthly area probabilites were estimated based on boat trailer counts that were measured from all ramps on every scheduled sample day. These probablilties were used to obtain the monthly area probability for the sampled ramp which was used to exand the local effort lake wide during the monthly time blocks. This differed from the roving surveys which had fixed probabilities prior to the sample year and were used to schedule the sampling effort.

Catch Rates

Catch rates from roving surveys should be computed differently than catch rates from access point surveys. This is because catch rate data are based on uncompleted trips from roving surveys. If trip data is not complete, then it is appropriate to compute a catch rate for each interview and then take a mean of these rates within any given day to provide a daily catch rate. This is the method described above for computation of catch rates from roving surveys. This method gives each interview equal weighting regardless of how long the anglers were fishing. Equal weighting is appropriate because the final length of the trip is not known. However, if the completed trip length is known as with access point surveys, then catch rate is computed as the sum of catch across interviews (numerator) divided by the sum of effort across interviews (denominator). This provides a single total ratio estimate of CPE, which is equivalent to weighting each interview catch rate by the time spent fishing. This weighting is appropriate because the total fishing trip is represented in the data.

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STATEWIDE

STATEWIDE ANGLING EFFORT FOR ALL ANGLERS - 2010

LAKE	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
DALE HOLLOW	334592	8.9	14.4	52744	2.3	9.1
REELFOOT	367867	11.9	35.2	47943	4.6	10.0
TIMS FORD	85254	15.4	8.1	17234	1.5	2.3
CENTER HILL	279400	7.7	15.3	48768	2.7	7.6
PERCY PRIEST	492224	6.0	34.6	114955	8.0	13.4
OLD HICKORY	670816	8.9	29.9	149728	6.8	18.3
MELTON HILL	77097	5.9	13.5	20006	3.4	2.1
NORMANDY	98443	11.5	32.4	18601	6.0	2.7
TELLICO	132150	6.1	8.1	31783	2.0	3.6
CHICKAMAUGA	662598	10.2	19.3	99749	3.0	18.0
WATTS BAR	471088	9.7	12.2	72130	1.8	12.8
STATEWIDE	**3671529**	**3.3**	**20.3**	**673641**	**3.8**	**100.0**

STATEWIDE ANGLING EFFORT FOR INTENDED SPECIES GROUPS - 2010

INTENDED SPECIES	ANGLER HOURS	RELATIVE STANDARD ERROR	ANGLER TRIPS	PERCENT EFFORT
ANY CATFISH	372391	6.0	65947	10.1
MUSKELLUNGE	7359	16.1	1828	0.2
ANY TROUT	8918	20.8	1533	0.2
ANY TEMPERATE BASS	1623	38.6	377	0.0
WHITE BASS	44690	13.6	8766	1.2
STRIPED BASS	126015	10.1	24803	3.4
CHEROKEE BASS	24559	14.0	5623	0.7
ANY SUNFISH	204900	6.7	33961	5.6
ANY BLACK BASS	768974	5.4	121214	20.9
SMALLMOUTH BASS	164142	11.6	26701	4.5
SPOTTED BASS	11965	17.7	2252	0.3
LARGEMOUTH BASS	487001	5.6	112091	13.3
ANY CRAPPIE	718828	5.7	127244	19.6
SAUGER	43031	17.3	8848	1.2
WALLEYE	134828	6.4	26006	3.7
SAUGEYE	330	141.2	69	0.0
ANY SPECIES	551605	4.7	106307	15.0
OTHER	363	98.6	78	0.0

STATEWIDE CATCH STATISTICS FOR ALL ANGLERS, BY LAKE - 2010

LAKE	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
DALE HOLLOW	200598	10.5	0.60	19.7	69441	14.0	0.21	36.1
REELFOOT	768712	13.7	2.09	12.2	436574	12.9	1.19	14.1
TIMS FORD	72329	25.7	0.85	68.1	20649	40.1	0.24	111.1
CENTER HILL	204751	11.0	0.73	27.9	89879	12.5	0.32	34.2
PERCY PRIEST	616382	8.0	1.25	17.9	211993	12.9	0.43	33.5
OLD HICKORY	802487	12.8	1.20	24.6	224774	23.3	0.34	56.0
MELTON HILL	46765	11.3	0.61	26.7	6256	19.1	0.08	54.3
NORMANDY	103429	23.5	1.05	38.1	44276	46.5	0.45	77.0
TELLICO	130662	9.1	0.99	18.3	36067	12.4	0.27	30.6
CHICKAMAUGA	1673906	11.5	2.53	12.4	384252	14.9	0.58	20.1
WATTS BAR	806041	12.2	1.71	21.4	158395	16.0	0.34	42.8
STATEWIDE	**5426062**	**5.0**	**1.48**	**19.4**	**1682556**	**6.3**	**0.46**	**33.5**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2010

INTENDED SPECIES=ANY CATFISH

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
DALE HOLLOW	4776	26.3	740	1.3	0.44	40.9	0.44	40.9	100
REELFOOT	6290	29.6	848	1.7	0.40	80.9	0.24	118.6	30
TIMS FORD	2956	56.1	626	0.8	0.13	80.2	0.09	47.2	10
CENTER HILL	7882	25.3	1372	2.1	0.32	39.7	0.32	39.7	66
PERCY PRIEST	38423	11.3	9207	10.3	0.37	53.8	0.34	53.9	135
OLD HICKORY	73631	13.0	16396	19.8	0.42	44.7	0.27	45.1	122
MELTON HILL	4169	21.3	1111	1.1	0.20	83.3	0.13	116.1	9
NORMANDY	6628	23.3	1272	1.8	0.28	42.1	0.21	36.3	51
TELLICO	323	92.7	74	0.1	0.00	.	0.00	.	0
CHICKAMAUGA	148757	10.7	22411	39.9	1.23	14.2	0.54	22.5	1161
WATTS BAR	78556	14.5	11890	21.1	1.12	24.9	0.30	53.1	234
STATEWIDE	**372391**		**65947**						**1918**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2010

INTENDED SPECIES=MUSKELLUNGE

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
DALE HOLLOW	360	139.4	60	4.9	0.00	.	0.00	.	0
MELTON HILL	6999	15.4	1768	95.1	0.07	46.8	0.01	153.2	1
STATEWIDE	**7359**		**1828**						**1**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2010

INTENDED SPECIES=ANY TROUT

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
DALE HOLLOW	8836	20.9	1514	99.1	0.38	20.2	0.38	20.2	59
MELTON HILL	82	140.4	19	0.9	1.71	.	1.43	.	5
STATEWIDE	**8918**		**1533**						**64**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2010

INTENDED SPECIES=ANY TEMPERATE BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
TIMS FORD	1623	38.6	377	100.0	0.10	72.2	0.07	100.9	2

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2010

INTENDED SPECIES=WHITE BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
DALE HOLLOW	553	74.8	79	1.2	3.20	15.0	3.20	15.0	16
PERCY PRIEST	10149	16.6	2351	22.7	0.51	48.2	0.24	20.3	23
OLD HICKORY	16758	20.6	3748	37.5	0.59	49.7	0.39	73.3	55
NORMANDY	625	65.8	114	1.4	0.00	.	0.00	.	0
CHICKAMAUGA	3101	51.8	466	6.9	2.22	7.9	1.30	17.9	39
WATTS BAR	13504	32.5	2008	30.2	2.47	35.8	1.06	73.9	76
STATEWIDE	**44690**		**8766**						**209**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2010

INTENDED SPECIES=STRIPED BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
TIMS FORD	11142	44.5	2457	8.8	0.11	54.7	0.09	64.1	17
PERCY PRIEST	12665	17.0	2969	10.1	0.11	111.0	0.02	112.1	4
OLD HICKORY	42548	18.4	9618	33.8	0.11	61.2	0.05	69.1	20
MELTON HILL	5243	19.2	1378	4.2	0.10	66.2	0.02	137.5	3
TELLICO	1329	52.3	365	1.1	0.00	.	0.00	.	0
CHICKAMAUGA	16386	25.7	2453	13.0	0.84	36.3	0.11	91.8	16
WATTS BAR	36702	19.8	5563	29.1	0.85	28.3	0.08	87.8	25
STATEWIDE	**126015**		**24803**						**85**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2010

INTENDED SPECIES=CHEROKEE BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
TIMS FORD	3218	31.6	695	13.1	0.21	60.7	0.13	45.3	17
PERCY PRIEST	19732	16.0	4586	80.3	0.28	60.0	0.14	69.0	26
OLD HICKORY	1609	57.2	342	6.6	0.00	.	0.00	.	0
STATEWIDE	**24559**		**5623**						**43**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2010

INTENDED SPECIES=ANY SUNFISH

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
DALE HOLLOW	24384	13.8	3915	11.9	2.80	21.1	1.87	22.0	807
REELFOOT	96375	11.6	12173	47.0	2.33	8.3	1.71	7.6	2716
TIMS FORD	2116	53.5	489	1.0	2.75	13.3	1.22	21.6	25
CENTER HILL	21662	15.2	3881	10.6	3.60	28.1	2.42	25.3	629
PERCY PRIEST	21378	15.3	5064	10.4	2.37	28.5	1.13	40.1	178
OLD HICKORY	27927	18.3	6309	13.6	2.16	53.5	0.34	130.4	37
MELTON HILL	677	53.9	185	0.3	2.64	42.3	1.39	84.3	26
NORMANDY	6830	23.9	1306	3.3	2.52	30.1	1.45	52.4	147
TELLICO	1314	42.8	302	0.6	1.89	15.0	0.73	32.2	13
CHICKAMAUGA	2237	58.9	337	1.1	9.29	87.1	2.61	0.0	59
STATEWIDE	**204900**		**33961**						**4637**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2010

INTENDED SPECIES=ANY BLACK BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
DALE HOLLOW	67753	12.7	10589	8.8	0.42	24.4	0.05	87.7	68
REELFOOT	24868	16.3	3358	3.2	0.69	23.3	0.01	126.0	4
TIMS FORD	30917	13.0	5857	4.0	0.44	40.1	0.03	107.7	30
CENTER HILL	131316	11.7	22202	17.1	0.54	17.9	0.16	26.0	252
PERCY PRIEST	84	130.6	20	0.0	0.00	.	0.00	.	0
MELTON HILL	1504	33.3	375	0.2	0.68	67.2	0.10	156.4	2
NORMANDY	36459	11.8	6880	4.7	0.60	24.1	0.12	52.4	121
TELLICO	1086	51.7	261	0.1	0.71	6.9	0.12	61.5	4
CHICKAMAUGA	273195	11.1	41010	35.5	1.02	13.7	0.06	41.2	225
WATTS BAR	201792	10.7	30662	26.2	0.75	17.7	0.04	71.4	93
STATEWIDE	**768974**		**121214**						**799**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2010

INTENDED SPECIES=SMALLMOUTH BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
DALE HOLLOW	135772	13.7	20776	82.7	0.36	14.6	0.01	97.2	23
TIMS FORD	5265	26.4	975	3.2	0.46	29.1	0.01	81.2	2
CENTER HILL	9298	28.1	1681	5.7	0.27	51.0	0.00	.	0
PERCY PRIEST	7757	26.0	1783	4.7	0.28	81.2	0.00	.	0
OLD HICKORY	819	87.6	179	0.5	0.69	.	0.00	.	0
MELTON HILL	621	51.0	150	0.4	0.12	115.3	0.00	.	0
NORMANDY	94	166.3	26	0.1	0.00	.	0.00	.	0
TELLICO	4516	24.8	1131	2.8	0.43	48.3	0.00	.	0
STATEWIDE	**164142**		**26701**						**25**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2010

INTENDED SPECIES=SPOTTED BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
DALE HOLLOW	170	150.1	28	1.4	0.33	.	0.00	.	0
CENTER HILL	10296	19.6	1935	86.1	0.76	32.5	0.45	50.4	70
PERCY PRIEST	153	146.7	32	1.3	0.00	.	0.00	.	0
MELTON HILL	145	103.3	34	1.2	0.00	.	0.00	.	0
NORMANDY	1201	40.4	223	10.0	0.74	60.2	0.49	21.5	10
STATEWIDE	**11965**		**2252**						**80**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2010

INTENDED SPECIES=LARGEMOUTH BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
DALE HOLLOW	1872	43.5	278	0.4	0.41	62.2	0.00	.	0
TIMS FORD	2794	30.6	643	0.6	0.57	45.9	0.02	123.5	1
CENTER HILL	418	98.7	78	0.1	0.00	.	0.00	.	0
PERCY PRIEST	156848	7.3	36874	32.2	0.56	31.2	0.03	55.1	77
OLD HICKORY	249440	9.7	55802	51.2	0.84	17.3	0.07	31.3	164
MELTON HILL	26368	8.8	6867	5.4	0.59	26.6	0.01	200.7	5
NORMANDY	2782	34.5	519	0.6	0.56	64.6	0.08	79.6	5
TELLICO	44988	8.7	10785	9.2	0.72	23.7	0.03	138.1	8
CHICKAMAUGA	1199	.	201	0.2	0.48	.	0.00	.	0
WATTS BAR	292	148.8	44	0.1	0.48	.	0.00	.	0
STATEWIDE	**487001**		**112091**						**260**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2010

INTENDED SPECIES=ANY CRAPPIE

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
DALE HOLLOW	43254	12.0	6540	6.0	1.08	30.1	0.39	35.0	226
REELFOOT	215272	15.3	28346	29.9	1.79	8.4	1.01	7.8	2688
TIMS FORD	10200	15.8	1830	1.4	1.32	68.0	0.27	66.3	111
CENTER HILL	28806	15.4	4997	4.0	1.49	48.2	0.63	73.6	157
PERCY PRIEST	109781	9.1	24747	15.3	1.40	21.9	0.50	19.0	828
OLD HICKORY	104013	13.0	22747	14.5	1.20	35.5	0.39	23.8	314
MELTON HILL	7916	14.8	1987	1.1	0.94	63.9	0.31	46.5	71
NORMANDY	19803	16.3	3651	2.8	0.75	32.8	0.29	38.8	170
TELLICO	56778	8.2	13536	7.9	1.50	15.1	0.73	18.6	761
CHICKAMAUGA	77955	14.8	11855	10.8	2.41	14.9	1.07	16.8	1092
WATTS BAR	45050	18.3	7008	6.3	1.69	21.6	0.83	23.6	416
STATEWIDE	**718828**		**127244**						**6834**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2010

INTENDED SPECIES=SAUGER

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
OLD HICKORY	28485	23.1	6407	66.2	0.54	47.3	0.15	61.1	34
CHICKAMAUGA	3655	35.0	588	8.5	1.59	20.9	0.56	35.7	43
WATTS BAR	10891	29.6	1853	25.3	1.37	52.3	0.40	50.2	68
STATEWIDE	**43031**		**8848**						**145**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2010

INTENDED SPECIES=WALLEYE

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
DALE HOLLOW	37891	10.6	6739	28.1	0.35	21.1	0.22	23.6	180
TIMS FORD	4188	36.4	991	3.1	0.16	56.1	0.14	63.9	14
CENTER HILL	56935	9.4	10396	42.2	0.42	33.1	0.14	43.5	111
OLD HICKORY	18072	24.3	4077	13.4	0.11	58.6	0.08	65.1	13
NORMANDY	12884	20.4	2494	9.6	0.20	45.4	0.15	54.1	38
TELLICO	4858	27.4	1309	3.6	0.23	45.8	0.11	67.4	10
STATEWIDE	**134828**		**26006**						**366**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2010

INTENDED SPECIES=SAUGEYE

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
OLD HICKORY	330	141.2	69	100.0	0.00	.	0.00	.	0

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2010

INTENDED SPECIES=ANY SPECIES

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
DALE HOLLOW	8972	19.2	1488	1.6	0.15	143.9	0.05	260.9	11
REELFOOT	25064	17.9	3215	4.5	0.83	37.9	0.41	38.9	112
TIMS FORD	10839	27.7	2297	2.0	0.89	55.8	0.13	92.1	32
CENTER HILL	12787	20.0	2228	2.3	0.14	87.5	0.07	102.4	12
PERCY PRIEST	114891	7.4	27244	20.8	1.28	41.7	0.48	54.5	460
OLD HICKORY	107178	10.8	24037	19.4	0.94	32.0	0.33	55.8	176
MELTON HILL	23374	9.4	6134	4.2	0.57	55.4	0.14	87.7	71
NORMANDY	11132	19.3	2116	2.0	0.63	48.8	0.01	119.9	5
TELLICO	16959	13.0	4017	3.1	0.68	25.2	0.24	58.8	42
CHICKAMAUGA	136110	12.1	20427	24.7	3.62	21.1	1.19	36.2	1115
WATTS BAR	84299	13.7	13104	15.3	2.04	23.9	0.44	47.2	237
STATEWIDE	**551605**		**106307**						**2273**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2010

INTENDED SPECIES=OTHER

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
PERCY PRIEST	363	98.6	78	100.0	0.00	.	0.00	.	0

STATEWIDE SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS, BY LAKE - 2010

LAKE	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
DALE HOLLOW	1454920	856050	2309480	1086
REELFOOT	1701330	452640	2153970	864
TIMS FORD	480850	334920	815790	125
CENTER HILL	916980	642510	1534190	674
PERCY PRIEST	1359420	578760	1938180	293
OLD HICKORY	2042080	830250	2872350	327
MELTON HILL	342040	189180	531230	506
NORMANDY	276170	265390	541540	95
TELLICO	586930	340280	927240	566
CHICKAMAUGA	1978650	1959090	3937730	1195
WATTS BAR	1702200	1651660	3353870	640
TOTAL	**12841570**	**8100730**	**20915570**	**6371**

STATEWIDE SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS, BY INTENDED SPECIES - 2010

TARGET	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBR OF INTERVIEWS
ANY CATFISH	1101310	932910	2034250	512
MUSKELLUNGE	52180	54990	106660	49
ANY TROUT	76150	25170	101320	21
WHITE BASS	98300	75160	173470	40
STRIPED BASS	752680	527740	1280420	165
CHEROKEE BASS	61460	69050	130510	30
ANY SUNFISH	736450	267220	1003680	391
ANY BLACK BASS	2826440	2471960	5298410	1578
SMALLMOUTH BASS	895690	584390	1459770	468
SPOTTED BASS	39340	27850	64640	31
LARGEMOUTH BASS	1835370	801530	2636920	634
ANY CRAPPIE	2418660	1127090	3543290	1361
SAUGER	111860	119380	231230	45
WALLEYE	404550	318620	722210	377
ANY SPECIES	1431130	697670	2128790	669
TOTAL	**12841570**	**8100730**	**20915570**	**6371**

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MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2010

LAKE=KENTUCKY

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	7144	28.8	0.1	1684	0.0	0.5
02 FEBRUARY	37439	30.3	0.3	6988	0.1	2.7
03 MARCH	214660	15.3	2.0	35138	0.3	15.4
04 APRIL	429468	22.7	4.0	64525	0.6	30.9
05 MAY	161683	15.4	1.5	23386	0.2	11.6
06 JUNE	95864	13.3	0.9	15217	0.1	6.9
07 JULY	82738	23.8	0.8	14485	0.1	6.0
08 AUGUST	61936	17.2	0.6	10351	0.1	4.5
09 SEPTEMBER	108412	12.3	1.0	17932	0.2	7.8
10 OCTOBER	115509	10.1	1.1	18514	0.2	8.3
11 NOVEMBER	62843	16.9	0.6	10356	0.1	4.5
12 DECEMBER	12662	31.1	0.1	2624	0.0	0.9
TOTAL	**1390358**			**221200**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2010

LAKE=KENTUCKY

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	10216	41.3	1.43	28.4	3143	46.3	0.44	34.8
02 FEBRUARY	82366	43.7	2.20	30.2	37439	43.3	1.00	29.6
03 MARCH	659006	25.3	3.07	19.9	302671	26.3	1.41	21.2
04 APRIL	1275520	26.1	2.97	12.5	575487	27.5	1.34	15.1
05 MAY	279712	27.4	1.73	22.4	130963	33.6	0.81	29.4
06 JUNE	224322	15.4	2.34	7.7	77650	18.3	0.81	12.5
07 JULY	104250	26.3	1.26	10.8	23167	29.9	0.28	17.5
08 AUGUST	86710	23.7	1.40	16.1	25394	32.2	0.41	26.7
09 SEPTEMBER	182132	16.0	1.68	10.1	62879	17.8	0.58	12.7
10 OCTOBER	276067	14.6	2.39	10.4	93562	16.5	0.81	13.0
11 NOVEMBER	148309	24.8	2.36	17.9	45875	21.8	0.73	13.5
12 DECEMBER	19246	49.7	1.52	37.0	7217	45.5	0.57	32.0
TOTAL	**3347856**				**1385447**			

SUMMARY OF SPECIES CATCH STATISTICS - 2010

LAKE=KENTUCKY

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
SKIPJACK HERRING	4000	254.7	0.1	4000	0	.	0.0	0	100.0	.	0
ANY BULLHEAD	334	1189.0	0.0	334	211	1679.2	0.0	211	36.8	0.70	1
YELLOW BULLHEAD	224	2095.7	0.0	224	0	.	0.0	0	100.0	.	0
BROWN BULLHEAD	1567	454.8	0.0	1567	0	.	0.0	0	100.0	.	0
BLUE CATFISH	189184	18.4	5.7	185379	141476	22.2	10.2	139430	25.2	1.42	1675
CHANNEL CATFISH	35943	77.0	1.1	35150	32626	81.4	2.4	32369	9.2	2.33	253
WHITE BASS	97203	30.0	2.9	73173	38186	39.7	2.8	34293	60.7	0.68	206
YELLOW BASS	228543	24.3	6.8	13616	3224	453.7	0.2	3224	98.6	0.26	18
STRIPED BASS	2340	357.2	0.1	2028	1343	508.3	0.1	1209	42.6	7.80	3
BLUEGILL	237379	22.4	7.1	202996	109612	28.3	7.9	107737	53.8	0.27	1520
REDEAR SUNFISH	19669	121.8	0.6	19322	13076	151.9	0.9	12727	33.5	0.47	206
SMALLMOUTH BASS	15776	169.5	0.5	15517	508	291.5	0.0	381	96.8	3.03	4
SPOTTED BASS	4495	408.7	0.1	4399	580	820.3	0.0	464	87.1	1.54	5
LARGEMOUTH BASS	690859	10.7	20.6	635682	39696	31.1	2.9	39414	94.3	2.31	208
WHITE CRAPPIE	1081576	12.3	32.3	1077910	601309	18.5	43.4	598837	44.4	0.69	4821
BLACK CRAPPIE	659883	15.3	19.7	658483	365966	22.2	26.4	364824	44.5	0.83	2542
BLACKNOSE CRAPPIE	39	3102.9	0.0	39	39	3102.9	0.0	39	0.0	0.90	1
YELLOW PERCH	510	619.0	0.0	0	510	619.0	0.0	0	0.0	0.31	5
SAUGER	66499	38.0	2.0	65764	36535	40.9	2.6	36325	45.1	1.34	174
WALLEYE	195	1040.0	0.0	195	117	1265.7	0.0	117	40.0	2.13	3
FRESHWATER DRUM	7590	328.7	0.2	1047	0	.	0.0	0	100.0	.	0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2010

LAKE=KENTUCKY

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	242320	7.5	38625	17.4	1.00	16.7	0.79	18.4	384
WHITE BASS	31297	19.8	5446	2.3	1.64	21.7	0.66	41.2	37
STRIPED BASS	8755	38.4	1305	0.6	0.59	107.2	0.42	139.1	10
ANY SUNFISH	26959	25.0	4127	1.9	7.50	10.0	4.51	11.9	30
ANY BLACK BASS	359760	8.0	57138	25.9	1.81	11.5	0.18	38.2	692
LARGEMOUTH BASS	319	101.5	51	0.0	2.91		0.00		1
ANY CRAPPIE	547199	13.1	86365	39.4	2.85	8.0	1.57	9.1	773
SAUGER	71476	18.7	12097	5.1	0.60	13.1	0.31	12.7	74
WALLEYE	885	55.3	161	0.1	0.64	76.2	0.38	59.3	5
ANY SPECIES	100354	11.6	15710	7.2	1.98	41.3	0.91	49.8	92
OTHER	1033	100.3	170	0.1	0.00		0.00		1
TOTAL	**1390357**		**221195**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2010

LAKE=KENTUCKY

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY BULLHEAD	0.00	0.00
	YELLOW BULLHEAD	0.00	0.00
	BROWN BULLHEAD	0.01	0.00
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.83	0.64
	CHANNEL CATFISH	0.16	0.15
ANY SUNFISH			
	BLUEGILL	6.85	4.03
	REDEAR SUNFISH	0.65	0.48
ANY BLACK BASS			
	SMALLMOUTH BASS	0.04	0.00
	SPOTTED BASS	0.01	0.00
	LARGEMOUTH BASS	1.77	0.11
ANY CRAPPIE			
	ANY CRAPPIE	0.00	0.00
	WHITE CRAPPIE	1.77	0.98
	BLACK CRAPPIE	1.08	0.59
	BLACKNOSE CRAPPIE	0.00	0.00

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=KENTUCKY

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.33	2
02 FEBRUARY	0		0	0.48	17
03 MARCH	19	1.75	2	1.63	33
04 APRIL	17	1.74	10	1.78	68
05 MAY	64	1.59	25	1.70	46
06 JUNE	15	2.16	11	2.16	66
07 JULY	27	2.32	12	1.90	65
08 AUGUST	14	2.20	11	2.20	102
09 SEPTEMBER	34	2.29	16	2.01	73
10 OCTOBER	19	1.87	10	2.08	90
11 NOVEMBER	36	1.65	4	1.45	24
12 DECEMBER	0		0	0.81	5

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2010

LAKE=KENTUCKY

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	454980	181350	636160	381
WHITE BASS	47780	17950	65730	37
STRIPED BASS	15370	400	15780	10
ANY SUNFISH	60420	32480	87070	30
ANY BLACK BASS	2031890	598900	2630790	688
LARGEMOUTH BASS	1280	1280	2570	1
ANY CRAPPIE	1341710	829490	2171200	770
SAUGER	281090	8050	289150	74
WALLEYE	1840	890	2730	5
ANY SPECIES	184040	55130	239170	91
OTHER	1700	0	1700	1
TOTAL	**4422100**	**1725920**	**6142050**	**2088**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2010

LAKE=KENTUCKY

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	3755	91.4
OTHERS	355	8.6

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BENTON	804	21.5
CARROLL	262	7.0
HENRY	629	16.8
HOUSTON	313	8.4
HUMPHREYS	239	6.4
OTHERS IN TN	1487	39.8
OUT-OF-STATE	5	0.1

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	2663	64.8
B) 26-100	1237	30.1
C) 101-250	69	1.7
D) > 250	141	3.4

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	2052	97.6
B) VACATION	25	1.2
C) BUSINESS	25	1.2

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	1895	90.2
B) 2-5	150	7.1
C) 6-10	37	1.8
D) 11-15	13	0.6
E) 16-20	2	0.1
F) >20	3	0.1

KENTUCKY #1

NORTH

RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2010

LAKE=KENTUCKY - NORTH

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	1147	51.3	0.0	239	0.0	0.1
02 FEBRUARY	22176	27.4	0.2	4002	0.0	2.5
03 MARCH	94005	25.5	0.9	15468	0.1	10.6
04 APRIL	331946	29.2	3.1	49394	0.5	37.3
05 MAY	58262	31.1	0.5	8936	0.1	6.5
06 JUNE	95864	13.3	0.9	15217	0.1	10.8
07 JULY	82738	23.8	0.8	14485	0.1	9.3
08 AUGUST	31532	16.7	0.3	5789	0.1	3.5
09 SEPTEMBER	75168	16.3	0.7	12954	0.1	8.4
10 OCTOBER	67370	14.0	0.6	10836	0.1	7.6
11 NOVEMBER	24413	23.3	0.2	4184	0.0	2.7
12 DECEMBER	6014	27.5	0.1	1387	0.0	0.7
TOTAL	**890635**			**142891**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2010

LAKE=KENTUCKY - NORTH

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	3521	55.4	3.07	18.7	1044	63.4	0.91	33.1
02 FEBRUARY	75177	37.7	3.39	25.0	33264	36.1	1.50	22.7
03 MARCH	507627	30.6	5.40	16.4	223732	31.8	2.38	18.3
04 APRIL	1115339	31.9	3.36	12.3	517836	32.8	1.56	14.4
05 MAY	143907	38.7	2.47	22.0	71080	38.0	1.22	20.8
06 JUNE	224322	15.4	2.34	7.7	77650	18.3	0.81	12.5
07 JULY	104250	26.3	1.26	10.8	23167	29.9	0.28	17.5
08 AUGUST	45721	21.3	1.45	13.0	7883	30.9	0.25	25.6
09 SEPTEMBER	138309	19.2	1.84	10.0	43597	21.0	0.58	13.1
10 OCTOBER	206152	16.6	3.06	8.9	69391	17.7	1.03	10.8
11 NOVEMBER	98140	28.3	4.02	15.7	31493	25.8	1.29	10.8
12 DECEMBER	15877	35.3	2.64	21.3	5773	33.7	0.96	18.9
TOTAL	**2678342**				**1105910**			

SUMMARY OF SPECIES CATCH STATISTICS - 2010

LAKE=KENTUCKY - NORTH

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
YELLOW BULLHEAD	224	2095.7	0.0	224	0	.	0.0	0	100.0	.	0
BROWN BULLHEAD	1567	454.8	0.1	1567	0	.	0.0	0	100.0	.	0
BLUE CATFISH	104936	28.6	3.9	104683	85337	32.7	7.7	85207	18.7	1.31	1303
CHANNEL CATFISH	17522	133.1	0.7	17187	17049	133.6	1.5	17049	2.7	2.32	203
WHITE BASS	4753	271.8	0.2	2125	2241	340.9	0.2	2241	52.9	0.72	35
YELLOW BASS	220865	23.2	8.2	10512	192	350.7	0.0	192	99.9	0.37	3
BLUEGILL	189823	24.5	7.1	165079	86501	29.3	7.8	86501	54.4	0.27	1433
REDEAR SUNFISH	18615	125.2	0.7	18559	12022	158.7	1.1	11967	35.4	0.47	201
SMALLMOUTH BASS	4667	407.3	0.2	4579	0	.	0.0	0	100.0	.	0
SPOTTED BASS	2257	711.9	0.1	2257	94	1887.9	0.0	94	95.8	1.60	2
LARGEMOUTH BASS	500868	13.8	18.7	454250	6589	36.5	0.6	6568	98.7	2.28	104
WHITE CRAPPIE	983076	13.4	36.7	979777	552560	20.0	50.0	550412	43.8	0.69	4586
BLACK CRAPPIE	623552	16.0	23.3	622558	342965	23.4	31.0	342269	45.0	0.83	2441
BLACKNOSE CRAPPIE	39	3102.9	0.0	39	39	3102.9	0.0	39	0.0	0.90	1
SAUGER	162	1692.1	0.0	122	0	.	0.0	0	100.0	.	0
WALLEYE	195	1040.0	0.0	195	117	1265.7	0.0	117	40.0	2.13	3
FRESHWATER DRUM	4532	485.5	0.2	0	0	.	0.0	0	100.0	.	0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2010

LAKE=KENTUCKY - NORTH

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	141014	10.1	23408	15.8	1.09	14.6	0.90	14.0	266
WHITE BASS	6085	29.4	1041	0.7	0.62	58.8	0.57	55.7	15
ANY SUNFISH	26347	25.4	4042	3.0	6.44	11.5	4.24	12.6	29
ANY BLACK BASS	228698	11.1	37142	25.7	2.10	7.5	0.11	26.1	506
LARGEMOUTH BASS	319	101.5	51	0.0	2.91		0.00		1
ANY CRAPPIE	440174	16.1	69462	49.4	4.15	6.7	2.36	7.5	640
SAUGER	1611	37.8	327	0.2	0.10	110.3	0.00		10
WALLEYE	885	55.3	161	0.1	0.64	76.2	0.38	59.3	5
ANY SPECIES	44472	18.1	7086	5.0	2.32	36.9	1.14	45.3	51
OTHER	1033	100.3	170	0.1	0.00		0.00		1
TOTAL	**890638**		**142890**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2010

LAKE=KENTUCKY - NORTH

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	YELLOW BULLHEAD	0.00	0.00
	BROWN BULLHEAD	0.01	0.00
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.92	0.75
	CHANNEL CATFISH	0.15	0.15
ANY SUNFISH			
	BLUEGILL	5.79	3.72
	REDEAR SUNFISH	0.65	0.52
ANY BLACK BASS			
	SMALLMOUTH BASS	0.02	0.00
	SPOTTED BASS	0.01	0.00
	LARGEMOUTH BASS	1.98	0.03
ANY CRAPPIE			
	ANY CRAPPIE	0.00	0.00
	WHITE CRAPPIE	2.54	1.46
	BLACK CRAPPIE	1.61	0.90
	BLACKNOSE CRAPPIE	0.00	0.00

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=KENTUCKY - NORTH

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
02 FEBRUARY	0		0	0.47	16
03 MARCH	0		0	1.85	24
04 APRIL	18	2.02	5	2.01	38
05 MAY	42	2.57	7	2.33	22
06 JUNE	15	2.16	11	2.16	66
07 JULY	27	2.32	12	1.90	65
08 AUGUST	15	2.54	8	2.12	77
09 SEPTEMBER	28	2.77	11	2.22	56
10 OCTOBER	22	2.18	8	2.43	65
11 NOVEMBER	36	1.65	4	2.11	8
12 DECEMBER	0		0	0.83	3

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2010

LAKE=KENTUCKY - NORTH

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	294130	152570	446530	266
WHITE BASS	13140	6760	19900	15
ANY SUNFISH	58710	32480	85360	29
ANY BLACK BASS	1106350	567620	1673970	505
LARGEMOUTH BASS	1280	1280	2570	1
ANY CRAPPIE	1172570	760460	1933030	637
SAUGER	4280	2910	7190	10
WALLEYE	1840	890	2730	5
ANY SPECIES	85590	44450	130040	51
OTHER	1700	0	1700	1
TOTAL	**2739590**	**1569420**	**4303020**	**1520**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2010

LAKE=KENTUCKY - NORTH

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	2777	92
OTHERS	241	8

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BENTON	686	24.8
CARROLL	218	7.9
HENRY	627	22.7
HOUSTON	313	11.3
HUMPHREYS	142	5.1
STEWART	180	6.5
OTHERS IN TN	598	21.6

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	1966	65.2
B) 26-100	867	28.8
C) 101-250	48	1.6
D) > 250	133	4.4

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	1523	99.9
B) VACATION	2	0.1

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	1383	90.8
B) 2-5	90	5.9
C) 6-10	32	2.1
D) 11-15	13	0.9
E) 16-20	2	0.1
F) >20	3	0.2

KENTUCKY #2

SOUTH

RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2010

LAKE=KENTUCKY – SOUTH

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	5997	32.9	0.1	1445	0.0	1.2
02 FEBRUARY	15263	62.7	0.1	2986	0.0	3.1
03 MARCH	120655	18.5	1.1	19670	0.2	24.1
04 APRIL	97522	12.1	0.9	15132	0.1	19.5
05 MAY	103421	16.5	1.0	14450	0.1	20.7
08 AUGUST	30404	30.5	0.3	4561	0.0	6.1
09 SEPTEMBER	33244	15.9	0.3	4977	0.0	6.7
10 OCTOBER	48139	14.3	0.4	7679	0.1	9.6
11 NOVEMBER	38430	23.3	0.4	6172	0.1	7.7
12 DECEMBER	6648	53.7	0.1	1237	0.0	1.3
TOTAL	**499723**			**78309**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2010

LAKE=KENTUCKY - SOUTH

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	6717	47.5	1.12	32.7	2099	45.2	0.35	29.4
02 FEBRUARY	7326	78.3	0.48	39.7	4274	111.9	0.28	78.5
03 MARCH	150819	26.6	1.25	18.8	78426	24.8	0.65	16.2
04 APRIL	159936	15.2	1.64	9.2	57538	19.7	0.59	15.5
05 MAY	136516	26.1	1.32	19.9	59984	43.4	0.58	39.6
08 AUGUST	40741	36.5	1.34	19.2	17634	39.9	0.58	24.6
09 SEPTEMBER	43882	18.9	1.32	10.0	19282	20.0	0.58	11.9
10 OCTOBER	69802	20.6	1.45	14.7	24070	24.2	0.50	19.3
11 NOVEMBER	50343	28.3	1.31	15.6	14603	28.4	0.38	15.8
12 DECEMBER	3390	.	0.51	.	1396	.	0.21	.
TOTAL	**669472**				**279306**			

SUMMARY OF SPECIES CATCH STATISTICS - 2010

LAKE=KENTUCKY - SOUTH

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
SKIPJACK HERRING	4000	254.7	0.6	4000	0	.	0.0	0	100.0	.	0
ANY BULLHEAD	334	1189.0	0.0	334	211	1679.2	0.1	211	36.8	0.70	1
BLUE CATFISH	84249	21.0	12.6	78641	56137	25.5	20.1	53011	33.4	1.81	372
CHANNEL CATFISH	18420	80.9	2.8	17835	15577	87.5	5.6	14954	15.4	2.39	50
WHITE BASS	92451	28.3	13.8	74900	35945	36.4	12.9	31531	61.1	0.67	171
YELLOW BASS	7678	275.9	1.1	5484	3032	482.0	1.1	3032	60.5	0.24	15
STRIPED BASS	2340	357.2	0.3	2028	1343	508.3	0.5	1209	42.6	7.80	3
BLUEGILL	47557	54.2	7.1	32158	23110	77.4	8.3	16204	51.4	0.28	87
REDEAR SUNFISH	1054	527.9	0.2	0	1054	527.9	0.4	0	0.0	0.39	5
SMALLMOUTH BASS	11109	169.4	1.7	10948	508	291.5	0.2	381	95.4	3.03	4
SPOTTED BASS	2236	398.1	0.3	2112	486	908.3	0.2	324	78.3	1.50	3
LARGEMOUTH BASS	189990	13.7	28.4	187945	33107	36.5	11.9	32716	82.6	2.33	104
WHITE CRAPPIE	98500	19.5	14.7	98104	48747	25.2	17.5	48332	50.5	0.65	235
BLACK CRAPPIE	36329	44.4	5.4	35680	23001	52.9	8.2	22318	36.7	0.73	101
YELLOW PERCH	510	619.0	0.1	0	510	619.0	0.2	0	0.0	0.31	5
SAUGER	66338	37.9	9.9	65782	36535	40.9	13.1	36325	44.9	1.34	174
FRESHWATER DRUM	3058	384.7	0.5	1882	0	.	0.0	0	100.0	.	0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2010

LAKE=KENTUCKY - SOUTH

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	101306	11.2	15215	20.3	0.88	18.7	0.60	26.0	118
WHITE BASS	25212	23.6	4405	5.0	1.88	18.9	0.69	39.5	22
STRIPED BASS	8755	38.4	1305	1.8	0.59	107.2	0.42	139.1	10
ANY SUNFISH	612	142.6	86	0.1	13.33		6.67		1
ANY BLACK BASS	131062	10.2	19998	26.2	1.32	16.8	0.26	35.0	186
ANY CRAPPIE	107025	10.9	16903	21.4	1.26	13.3	0.64	15.6	133
SAUGER	69865	19.1	11770	14.0	0.64	12.2	0.33	12.2	64
ANY SPECIES	55882	15.0	8626	11.2	1.07	33.5	0.52	53.2	41
TOTAL	**499719**		**78308**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2010

LAKE=KENTUCKY – SOUTH

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY BULLHEAD	0.00	0.00
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.71	0.47
	CHANNEL CATFISH	0.16	0.13
ANY SUNFISH			
	BLUEGILL	13.33	6.67
	REDEAR SUNFISH	0.00	0.00
ANY BLACK BASS			
	SMALLMOUTH BASS	0.08	0.00
	SPOTTED BASS	0.02	0.00
	LARGEMOUTH BASS	1.43	0.25
ANY CRAPPIE			
	WHITE CRAPPIE	0.92	0.44
	BLACK CRAPPIE	0.34	0.20

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=KENTUCKY - SOUTH

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.33	2
02 FEBRUARY	0		0	0.67	1
03 MARCH	19	1.75	2	1.03	9
04 APRIL	16	1.45	5	1.49	30
05 MAY	73	1.21	18	1.12	24
08 AUGUST	11	1.29	3	2.43	25
09 SEPTEMBER	46	1.23	5	1.33	17
10 OCTOBER	6	0.63	2	1.17	25
11 NOVEMBER	0		0	1.12	16
12 DECEMBER	0		0	0.79	2

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2010

LAKE=KENTUCKY – SOUTH

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	160850	28780	189630	115
WHITE BASS	34640	11190	45830	22
STRIPED BASS	15370	400	15780	10
ANY SUNFISH	1710	0	1710	1
ANY BLACK BASS	925540	31280	956810	183
ANY CRAPPIE	169140	69030	238170	133
SAUGER	276810	5150	281960	64
ANY SPECIES	98450	10680	109130	40
TOTAL	**1682510**	**156510**	**1839020**	**568**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2010

LAKE=KENTUCKY - SOUTH

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
MS	97	8.9
TN	978	89.6
OTHERS	17	1.6

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BENTON	118	12.1
DECATUR	86	8.8
HARDIN	72	7.4
HICKMAN	50	5.1
HUMPHREYS	97	9.9
MADISON	77	7.9
PERRY	57	5.8
OTHERS IN TN	413	42.4
OUT-OF-STATE	5	0.5

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	697	63.6
B) 26-100	370	33.8
C) 101-250	21	1.9
D) > 250	8	0.7

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	529	91.7
B) VACATION	23	4.0
C) BUSINESS	25	4.3

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	512	88.7
B) 2-5	60	10.4
C) 6-10	5	0.9

REELFOOT
RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2010

LAKE=REELFOOT

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
02 FEBRUARY	7490	51.1	0.7	1308	0.1	2.0
03 MARCH	63913	31.9	6.1	9024	0.9	17.4
04 APRIL	163656	21.7	15.7	19933	1.9	44.5
05 MAY	92032	12.7	8.8	11414	1.1	25.0
06 JUNE	21456	35.0	2.1	3127	0.3	5.8
07 JULY	2593	44.6	0.2	409	0.0	0.7
08 AUGUST	1173	28.7	0.1	303	0.0	0.3
09 SEPTEMBER	4510	50.1	0.4	742	0.1	1.2
10 OCTOBER	5932	50.4	0.6	895	0.1	1.6
11 NOVEMBER	5112	55.7	0.5	788	0.1	1.4
12 DECEMBER	0	.	0.0	.	.	0.0
TOTAL	**367867**			**47943**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2010

LAKE=REELFOOT

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
02 FEBRUARY	6367	58.6	0.85	25.4	5618	58.6	0.75	25.4
03 MARCH	93313	36.0	1.46	16.1	61996	36.8	0.97	17.5
04 APRIL	382955	24.0	2.34	10.0	198024	23.2	1.21	8.0
05 MAY	209833	15.2	2.28	8.4	125164	14.3	1.36	6.6
06 JUNE	45272	38.9	2.11	15.9	24031	44.4	1.12	25.8
07 JULY	2204	45.9	0.85	9.9	259	69.5	0.10	47.5
08 AUGUST	270	49.7	0.23	39.1	0	.	0.00	.
09 SEPTEMBER	5051	64.5	1.12	36.4	3292	68.2	0.73	41.5
10 OCTOBER	10974	74.2	1.85	48.7	7712	85.2	1.30	61.4
11 NOVEMBER	12473	55.7	2.44	0.5	10480	55.7	2.05	0.0
TOTAL	**768712**				**436576**			

SUMMARY OF SPECIES CATCH STATISTICS - 2010

LAKE=REELFOOT

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
ANY GAR	146	2448.1	0.0	0	0	.	0.0	0	100.0	.	0
SHORTNOSE GAR	249	285.5	0.0	0	12	552.5	0.0	0	95.2	1.80	1
BOWFIN	486	1360.9	0.1	0	111	3066.9	0.0	0	77.2	4.05	1
CHANNEL CATFISH	14578	54.1	1.9	3608	9789	69.6	2.2	2620	32.9	2.50	142
YELLOW BASS	19516	46.3	2.5	1259	10450	66.4	2.4	901	46.5	0.48	116
WARMOUTH	4029	188.8	0.5	3954	653	793.1	0.1	588	83.8	0.41	10
BLUEGILL	262312	11.2	34.2	255142	180274	13.7	41.3	176175	31.3	0.43	2815
LONGEAR SUNFISH	997	1434.2	0.1	997	778	1634.6	0.2	778	22.0	0.25	7
REDEAR SUNFISH	54	4855.1	0.0	54	54	4855.1	0.0	54	0.0	0.90	1
LARGEMOUTH BASS	22430	47.3	2.9	20962	296	542.1	0.1	296	98.7	5.35	4
WHITE CRAPPIE	409220	12.9	53.3	400929	221023	17.3	50.6	217469	46.0	0.70	2612
BLACK CRAPPIE	17415	75.5	2.3	15358	11552	86.7	2.6	11065	33.7	1.00	166
FRESHWATER DRUM	15720	62.8	2.0	302	1584	201.0	0.4	106	89.9	1.89	15

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2010

LAKE=REELFOOT

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	6290	29.6	848	1.7	0.40	80.9	0.24	118.6	17
ANY SUNFISH	96375	11.6	12173	26.2	2.33	8.3	1.71	7.6	225
ANY BLACK BASS	24868	16.3	3358	6.8	0.69	23.3	0.01	126.0	92
ANY CRAPPIE	215272	15.3	28346	58.5	1.79	8.4	1.01	7.8	478
ANY SPECIES	25064	17.9	3215	6.8	0.83	37.9	0.41	38.9	56
TOTAL	**367869**		**47940**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2010

LAKE=REELFOOT

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	CHANNEL CATFISH	0.40	0.24
ANY SUNFISH			
	WARMOUTH	0.04	0.01
	BLUEGILL	2.29	1.70
	LONGEAR SUNFISH	0.01	0.01
	REDEAR SUNFISH	0.00	0.00
ANY BLACK BASS			
	LARGEMOUTH BASS	0.84	0.01
ANY CRAPPIE			
	WHITE CRAPPIE	1.72	0.96
	BLACK CRAPPIE	0.07	0.05

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=REELFOOT

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
02 FEBRUARY	0		0	0.63	1
03 MARCH	0		0	0.81	7
04 APRIL	0		0	0.66	18
05 MAY	0		0	0.80	32
06 JUNE	0		0	0.61	15
07 JULY	0		0	0.52	9
08 AUGUST	0		0	0.25	8
09 SEPTEMBER	0		0	0.42	1
10 OCTOBER	0		0	0.00	1

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2010

LAKE=REELFOOT

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	19350	6150	25500	17
ANY SUNFISH	500140	129420	629560	224
ANY BLACK BASS	55630	19450	75080	92
ANY CRAPPIE	996250	260410	1256660	477
ANY SPECIES	129960	37210	167170	54
TOTAL	**1701330**	**452640**	**2153970**	**864**

SUMMARY OF SOCIOLOGICAL QUESTIONS – 2010

LAKE=REELFOOT

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
IL	310	19.6
IN	163	10.3
KY	124	7.9
MO	200	12.7
OH	164	10.4
TN	546	34.6
OTHERS	72	4.6

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
CROCKETT	29	5.3
DYER	109	20.0
LAKE	69	12.6
OBION	251	46.0
OTHERS IN TN	88	16.1

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	317	20.1
B) 26-100	407	25.8
C) 101-250	311	19.7
D) > 250	544	34.5

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	868	100

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	466	53.7
B) 2-5	313	36.1
C) 6-10	86	9.9
D) 11-15	1	0.1
E) 16-20	1	0.1
F) >20	1	0.1

TWRA

REGION II

TIMS FORD

RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2010

LAKE=TIMS FORD

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	1327	100.0	0.1	240	0.0	1.6
02 FEBRUARY	1354	44.3	0.1	250	0.0	1.6
03 MARCH	8054	26.3	0.8	1332	0.1	9.4
04 APRIL	10927	31.2	1.0	2040	0.2	12.8
05 MAY	6980	30.3	0.7	1129	0.1	8.2
06 JUNE	13308	82.8	1.3	2974	0.3	15.6
07 JULY	19385	21.6	1.8	4503	0.4	22.7
08 AUGUST	5296	30.8	0.5	1355	0.1	6.2
09 SEPTEMBER	5282	15.9	0.5	1082	0.1	6.2
10 OCTOBER	5975	13.2	0.6	1033	0.1	7.0
11 NOVEMBER	6931	34.0	0.7	1196	0.1	8.1
12 DECEMBER	435	38.5	0.0	100	0.0	0.5
TOTAL	**85254**			**17234**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2010

LAKE=TIMS FORD

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	279	.	0.21	.	27	.	0.02	.
02 FEBRUARY	718	74.9	0.53	55.3	41	102.9	0.03	77.5
03 MARCH	4993	58.7	0.62	50.5	161	83.9	0.02	89.0
04 APRIL	9397	57.7	0.86	46.4	1202	70.4	0.11	61.1
05 MAY	3769	47.3	0.54	34.8	140	97.0	0.02	100.0
06 JUNE	6787	99.2	0.51	41.7	1198	108.0	0.09	56.0
07 JULY	22293	31.9	1.15	22.9	9886	47.7	0.51	41.1
08 AUGUST	2436	41.5	0.46	26.6	424	58.7	0.08	45.8
09 SEPTEMBER	1743	33.9	0.33	29.9	475	60.8	0.09	60.2
10 OCTOBER	4063	24.9	0.68	21.0	837	49.5	0.14	45.9
11 NOVEMBER	15664	91.6	2.26	80.6	6238	106.0	0.90	95.2
12 DECEMBER	187	41.9	0.43	15.6	22	104.2	0.05	100.0
TOTAL	**72329**				**20651**			

SUMMARY OF SPECIES CATCH STATISTICS - 2010

LAKE=TIMS FORD

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CARP	62	939.1	0.1	0	0	.	0.0	0	100.0	.	0
CHANNEL CATFISH	3556	62.8	4.9	1080	1819	71.8	8.8	1031	48.8	1.84	30
FLATHEAD CATFISH	357	326.1	0.5	198	306	347.4	1.5	153	14.3	7.24	8
ANY TEMPERATE BASS	38	1916.1	0.1	38	0	.	0.0	0	100.0	.	0
WHITE BASS	3222	117.0	4.4	1179	132	798.5	0.6	66	95.9	0.70	2
YELLOW BASS	384	592.1	0.5	0	0	.	0.0	0	100.0	.	0
STRIPED BASS	1594	99.7	2.2	1063	946	127.0	4.6	846	40.7	5.32	19
CHEROKEE BASS	1821	84.8	2.5	1059	1179	104.2	5.7	1018	35.3	4.17	22
ROCK BASS	236	495.6	0.3	39	105	991.0	0.5	53	55.5	0.67	2
WARMOUTH	38	1916.1	0.1	0	0	.	0.0	0	100.0	.	0
BLUEGILL	14350	38.5	19.8	8679	5258	56.8	25.5	2831	63.4	0.22	65
LONGEAR SUNFISH	156	395.6	0.2	156	156	395.6	0.8	156	0.0	2.00	3
SMALLMOUTH BASS	8916	47.8	12.3	8363	322	102.2	1.6	322	96.4	3.04	8
SPOTTED BASS	1372	165.7	1.9	1316	23	241.3	0.1	23	98.3	1.52	1
LARGEMOUTH BASS	14078	32.9	19.4	13343	2087	56.7	10.1	1943	85.2	2.29	29
WHITE CRAPPIE	843	200.7	1.2	746	183	564.9	0.9	92	78.3	0.72	4
BLACK CRAPPIE	6054	65.6	8.4	5980	2021	124.6	9.8	1949	66.6	0.85	28
BLACKNOSE CRAPPIE	13589	49.6	18.8	13410	5453	86.6	26.4	5267	59.9	0.90	88
WALLEYE	782	187.6	1.1	659	661	190.0	3.2	617	15.5	2.37	15

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2010

LAKE=TIMS FORD

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	2956	56.1	626	3.5	0.13	80.2	0.09	47.2	12
ANY TEMPERATE BASS	1623	38.6	377	1.9	0.10	72.2	0.07	100.9	9
STRIPED BASS	11142	44.5	2457	13.1	0.11	54.7	0.09	64.1	49
CHEROKEE BASS	3218	31.6	695	3.8	0.21	60.7	0.13	45.3	17
ANY SUNFISH	2116	53.5	489	2.5	2.75	13.3	1.22	21.6	8
ANY BLACK BASS	30917	13.0	5857	36.3	0.44	40.1	0.03	107.7	235
SMALLMOUTH BASS	5265	26.4	975	6.2	0.46	29.1	0.01	81.2	37
LARGEMOUTH BASS	2794	30.6	643	3.3	0.57	45.9	0.02	123.5	21
ANY CRAPPIE	10200	15.8	1830	12.0	1.32	68.0	0.27	66.3	85
WALLEYE	4188	36.4	991	4.9	0.16	56.1	0.14	63.9	29
ANY SPECIES	10839	27.7	2297	12.7	0.89	55.8	0.13	92.1	52
TOTAL	**85258**		**17237**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2010

LAKE=TIMS FORD

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY CATFISH	0.00	0.00
	CHANNEL CATFISH	0.11	0.08
	FLATHEAD CATFISH	0.02	0.01
ANY TEMPERATE BASS			
	STRIPED BASS	0.05	0.03
	CHEROKEE BASS	0.05	0.04
ANY SUNFISH			
	ANY SUNFISH	0.00	0.00
	WARMOUTH	0.00	0.00
	BLUEGILL	2.70	1.16
	LONGEAR SUNFISH	0.05	0.06
ANY BLACK BASS			
	SMALLMOUTH BASS	0.21	0.01
	SPOTTED BASS	0.03	0.00
	LARGEMOUTH BASS	0.34	0.05
ANY CRAPPIE			
	WHITE CRAPPIE	0.05	0.00
	BLACK CRAPPIE	0.39	0.07
	BLACKNOSE CRAPPIE	0.88	0.19

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=TIMS FORD

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.19	4
02 FEBRUARY	0		0	0.35	15
03 MARCH	38	0.16	11	0.26	41
04 APRIL	1	0.00	1	0.59	40
05 MAY	11	0.38	1	0.22	13
06 JUNE	0		0	0.26	4
07 JULY	2	1.67	2	0.95	47
08 AUGUST	0		0	0.36	15
09 SEPTEMBER	0		0	0.29	22
10 OCTOBER	6	0.30	2	0.31	33
11 NOVEMBER	50	0.35	12	0.37	21
12 DECEMBER	0		0	0.48	9

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2010

LAKE=TIMS FORD

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	10300	4150	14460	4
STRIPED BASS	15920	26200	42120	14
CHEROKEE BASS	15060	18370	33430	6
ANY SUNFISH	5000	10000	15000	2
ANY BLACK BASS	124740	124760	249500	49
SMALLMOUTH BASS	14700	65480	80190	5
LARGEMOUTH BASS	19720	13000	32720	13
ANY CRAPPIE	24970	13440	38420	14
WALLEYE	8530	9480	18010	10
ANY SPECIES	241910	50040	291940	8
TOTAL	**480850**	**334920**	**815790**	**125**

SUMMARY OF SOCIOLOGICAL QUESTIONS – 2010

LAKE=TIMS FORD

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	217	97.7
OTHERS	5	2.3

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BEDFORD	16	7.4
COFFEE	33	15.2
FRANKLIN	103	47.5
MOORE	13	6.0
RUTHERFORD	17	7.8
OTHERS IN TN	35	16.1

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	165	75.7
B) 26-100	48	22.0
C) 101-250	2	0.9
D) > 250	3	1.4

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	120	93.8
B) VACATION	7	5.5
C) BUSINESS	1	0.8

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	114	89.1
B) 2-5	7	5.5
C) 6-10	5	3.9
D) 11-15	1	0.8
F) >20	1	0.8

NORMANDY

RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2010

LAKE=NORMANDY

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	1030	82.7	0.3	289	0.1	1.0
02 FEBRUARY	2665	23.0	0.9	611	0.2	2.7
03 MARCH	4041	30.0	1.3	647	0.2	4.1
04 APRIL	14202	38.7	4.7	2585	0.8	14.4
05 MAY	3003	22.3	1.0	450	0.1	3.1
06 JUNE	16638	37.2	5.5	3455	1.1	16.9
07 JULY	33113	20.1	10.9	6246	2.0	33.6
08 AUGUST	10100	29.6	3.3	1882	0.6	10.3
09 SEPTEMBER	3015	25.8	1.0	523	0.2	3.1
10 OCTOBER	6804	25.2	2.2	1229	0.4	6.9
11 NOVEMBER	3043	14.9	1.0	508	0.2	3.1
12 DECEMBER	789	64.5	0.3	176	0.1	0.8
TOTAL	**98443**			**18601**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2010

LAKE=NORMANDY

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	31	130.4	0.03	76.4	0	.	0.00	.
02 FEBRUARY	320	74.9	0.12	66.9	107	108.3	0.04	100.0
03 MARCH	2142	44.1	0.53	31.0	81	99.9	0.02	100.0
04 APRIL	14912	47.1	1.05	25.2	4971	53.2	0.35	33.6
05 MAY	2282	30.0	0.76	19.6	631	62.0	0.21	55.9
06 JUNE	15640	46.0	0.94	25.5	4160	51.3	0.25	32.9
07 JULY	49007	44.3	1.48	38.7	29802	67.9	0.90	63.2
08 AUGUST	7575	35.7	0.75	19.2	1313	51.5	0.13	41.1
09 SEPTEMBER	2171	57.9	0.72	50.2	693	84.0	0.23	77.7
10 OCTOBER	5103	40.6	0.75	30.6	1497	82.5	0.22	74.8
11 NOVEMBER	2921	51.5	0.96	48.6	517	86.8	0.17	83.0
12 DECEMBER	1326	108.0	1.68	72.7	505	120.6	0.64	86.3
TOTAL	**103430**				**44277**			

SUMMARY OF SPECIES CATCH STATISTICS - 2010

LAKE=NORMANDY

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CARP	209	841.9	0.2	105	0	.	0.0	0	100.0	.	0
CHANNEL CATFISH	6023	60.4	5.9	4170	3993	79.1	9.0	3273	33.7	2.27	61
FLATHEAD CATFISH	251	1314.3	0.2	251	251	1314.3	0.6	251	0.0	5.65	2
ROCK BASS	679	437.9	0.7	407	251	930.6	0.6	0	63.0	0.76	2
GREEN SUNFISH	126	1854.0	0.1	126	126	1854.0	0.3	126	0.0	0.20	1
BLUEGILL	30094	40.8	29.3	22607	17429	65.8	39.4	15119	42.1	0.17	166
LONGEAR SUNFISH	103	1159.0	0.1	103	0	.	0.0	0	100.0	.	0
REDEAR SUNFISH	52	1626.4	0.1	0	0	.	0.0	0	100.0	.	0
COOSA BASS	81	1592.8	0.1	0	0	.	0.0	0	100.0	.	0
SMALLMOUTH BASS	2987	91.8	2.9	2880	211	413.6	0.5	211	92.9	2.11	5
SPOTTED BASS	17836	26.5	17.4	16188	5628	63.9	12.7	4680	68.4	1.33	95
LARGEMOUTH BASS	13844	30.0	13.5	13100	2993	87.0	6.8	2939	78.4	3.41	55
WHITE CRAPPIE	2783	101.1	2.7	2690	2143	115.2	4.8	2036	23.0	1.03	40
BLACK CRAPPIE	660	189.0	0.6	619	457	173.4	1.0	457	30.8	0.93	11
BLACKNOSE CRAPPIE	16421	30.1	16.0	15864	7073	55.1	16.0	6641	56.9	1.03	131
WALLEYE	4814	72.3	4.7	4038	3466	92.0	7.8	3063	28.0	2.58	43

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2010

LAKE=NORMANDY

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	6628	23.3	1272	6.7	0.28	42.1	0.21	36.3	27
WHITE BASS	625	65.8	114	0.6	0.00		0.00		2
ANY SUNFISH	6830	23.9	1306	6.9	2.52	30.1	1.45	52.4	24
ANY BLACK BASS	36459	11.8	6880	37.0	0.60	24.1	0.12	52.4	250
SMALLMOUTH BASS	94	166.3	26	0.1	0.00		0.00		1
SPOTTED BASS	1201	40.4	223	1.2	0.74	60.2	0.49	21.5	10
LARGEMOUTH BASS	2782	34.5	519	2.8	0.56	64.6	0.08	79.6	10
ANY CRAPPIE	19803	16.3	3651	20.1	0.75	32.8	0.29	38.8	137
WALLEYE	12884	20.4	2494	13.1	0.20	45.4	0.15	54.1	62
ANY SPECIES	11132	19.3	2116	11.3	0.63	48.8	0.01	119.9	45
TOTAL	**98438**		**18601**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2010

LAKE=NORMANDY

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY CATFISH	0.00	0.00
	CHANNEL CATFISH	0.26	0.20
	FLATHEAD CATFISH	0.02	0.01
ANY SUNFISH			
	ANY SUNFISH	0.00	0.00
	GREEN SUNFISH	0.01	0.01
	BLUEGILL	2.49	1.44
	LONGEAR SUNFISH	0.01	0.00
	REDEAR SUNFISH	0.00	0.00
ANY BLACK BASS			
	ANY BLACK BASS	0.00	0.00
	COOSA BASS	0.00	0.00
	SMALLMOUTH BASS	0.07	0.01
	SPOTTED BASS	0.40	0.12
	LARGEMOUTH BASS	0.32	0.07
ANY CRAPPIE			
	ANY CRAPPIE	0.00	0.00
	WHITE CRAPPIE	0.11	0.06
	BLACK CRAPPIE	0.02	0.01
	BLACKNOSE CRAPPIE	0.62	0.21

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=NORMANDY

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.09	7
02 FEBRUARY	4	0.00	1	0.09	23
03 MARCH	51	0.30	12	0.55	26
04 APRIL	23	0.45	10	0.58	23
05 MAY	0		0	1.29	6
06 JUNE	0		0	0.69	19
07 JULY	24	0.72	15	0.70	33
08 AUGUST	18	0.66	8	0.88	24
09 SEPTEMBER	0		0	0.56	7
10 OCTOBER	30	0.17	6	0.36	28
11 NOVEMBER	30	0.34	3	0.44	12
12 DECEMBER	50	0.85	3	1.00	5

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2010

LAKE=NORMANDY

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	24680	21670	46350	3
ANY SUNFISH	15330	7220	22550	3
ANY BLACK BASS	129610	87050	216660	43
SPOTTED BASS	350	370	710	2
LARGEMOUTH BASS	8800	22400	31200	2
ANY CRAPPIE	28680	17360	46040	17
WALLEYE	59390	87030	146420	18
ANY SPECIES	9330	22290	31610	7
TOTAL	**276170**	**265390**	**541540**	**95**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2010

LAKE=NORMANDY

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	160	99.4
OTHERS	1	0.6

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BEDFORD	38	24.1
COFFEE	62	39.2
FRANKLIN	10	6.3
MARSHALL	10	6.3
RUTHERFORD	11	7.0
OTHERS IN TN	25	15.8
OUT-OF-STATE	2	1.3

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	128	82.6
B) 26-100	27	17.4

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	93	96.9
B) VACATION	2	2.1
C) BUSINESS	1	1.0

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	94	97.9
B) 2-5	2	2.1

J. PERCY PRIEST RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2010

LAKE=PERCY PRIEST

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	6729	46.5	0.5	1522	0.1	1.4
02 FEBRUARY	16877	27.8	1.2	3842	0.3	3.4
03 MARCH	36025	27.7	2.5	8324	0.6	7.3
04 APRIL	66578	11.7	4.7	14653	1.0	13.5
05 MAY	62962	.	4.4	17741	1.2	12.8
06 JUNE	57859	21.0	4.1	12369	0.9	11.8
07 JULY	65232	25.4	4.6	16251	1.1	13.3
08 AUGUST	28563	10.5	2.0	6643	0.5	5.8
09 SEPTEMBER	47451	11.9	3.3	11054	0.8	9.6
10 OCTOBER	53994	5.8	3.8	11963	0.8	11.0
11 NOVEMBER	43956	33.8	3.1	9151	0.6	8.9
12 DECEMBER	5998	19.8	0.4	1442	0.1	1.2
TOTAL	**492224**			**114955**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2010

LAKE=PERCY PRIEST

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	5585	53.7	0.83	24.5	1750	61.2	0.26	36.0
02 FEBRUARY	17890	48.8	1.06	38.5	6076	42.2	0.36	30.9
03 MARCH	39988	32.9	1.11	17.0	15131	45.8	0.42	35.1
04 APRIL	109854	23.6	1.65	20.4	42610	41.0	0.64	39.3
05 MAY	64851	.	1.03	.	18259	.	0.29	.
06 JUNE	78688	24.1	1.36	11.6	21408	43.2	0.37	36.8
07 JULY	83497	26.1	1.28	6.1	34573	38.7	0.53	28.1
08 AUGUST	35418	11.5	1.24	4.6	11140	22.0	0.39	19.0
09 SEPTEMBER	49349	24.0	1.04	20.7	14235	28.5	0.30	26.0
10 OCTOBER	76671	18.9	1.42	17.9	19438	16.4	0.36	15.4
11 NOVEMBER	45714	39.2	1.04	18.8	24615	39.5	0.56	19.5
12 DECEMBER	8877	24.8	1.48	14.6	2759	25.7	0.46	16.2
TOTAL	**616382**				**211994**			

SUMMARY OF SPECIES CATCH STATISTICS - 2010

LAKE=PERCY PRIEST

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
SKIPJACK HERRING	145	1595.5	0.0	0	0	.	0.0	0	100.0	.	0
CARP	1122	450.4	0.2	224	333	585.8	0.2	125	70.3	3.34	8
BIGMOUTH BUFFALO	31	1461.3	0.0	0	0	.	0.0	0	100.0	.	0
BLACK BULLHEAD	218	1566.5	0.0	218	0	.	0.0	0	100.0	.	0
BLUE CATFISH	803	121.3	0.1	602	770	96.1	0.4	770	4.1	9.87	3
CHANNEL CATFISH	24193	34.4	3.9	18091	20004	36.2	9.4	16261	17.3	1.71	171
FLATHEAD CATFISH	4439	137.7	0.7	3723	3399	150.6	1.6	3103	23.4	7.49	23
RAINBOW TROUT	60	3386.4	0.0	0	0	.	0.0	0	100.0	.	0
WHITE BASS	32817	35.6	5.3	14576	13854	56.9	6.5	6359	57.8	1.03	122
YELLOW BASS	56985	28.2	9.3	17502	14132	33.9	6.7	6600	75.2	0.35	182
STRIPED BASS	2536	212.8	0.4	1853	1523	178.5	0.7	937	39.9	4.28	13
CHEROKEE BASS	16741	54.3	2.7	9096	7358	76.9	3.5	5519	56.0	4.16	44
GREEN SUNFISH	17750	54.7	2.9	14411	13438	55.6	6.3	13438	24.3	0.17	69
WARMOUTH	483	750.7	0.1	242	363	827.4	0.2	272	24.8	0.20	4
BLUEGILL	87538	13.9	14.2	59433	40534	20.4	19.1	34231	53.7	0.20	373
LONGEAR SUNFISH	6938	101.4	1.1	6522	5194	98.5	2.5	5194	25.1	0.15	30
REDEAR SUNFISH	1233	392.1	0.2	379	477	313.1	0.2	95	61.3	0.30	5
SMALLMOUTH BASS	20105	37.8	3.3	3705	1917	75.4	0.9	113	90.5	2.78	17
SPOTTED BASS	22756	40.9	3.7	4012	2705	81.7	1.3	1210	88.1	0.79	38
LARGEMOUTH BASS	130930	10.1	21.3	107538	9601	30.6	4.5	8569	92.7	2.47	93
WHITE CRAPPIE	110211	14.3	17.9	106555	43328	25.0	20.4	42562	60.7	0.81	509
BLACK CRAPPIE	74127	22.2	12.0	72974	32444	26.5	15.3	31223	56.2	0.79	372
BLACKNOSE CRAPPIE	269	782.7	0.0	269	269	782.7	0.1	269	0.0	0.65	3
SAUGER	120	2393.5	0.0	0	0	.	0.0	0	100.0	.	0
FRESHWATER DRUM	3453	159.3	0.6	740	347	332.1	0.2	208	90.0	3.19	5

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2010

LAKE=PERCY PRIEST

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	38423	11.3	9207	7.8	0.37	53.8	0.34	53.9	92
WHITE BASS	10149	16.6	2351	2.1	0.51	48.2	0.24	20.3	30
STRIPED BASS	12665	17.0	2969	2.6	0.11	111.0	0.02	112.1	40
CHEROKEE BASS	19732	16.0	4586	4.0	0.28	60.0	0.14	69.0	52
ANY SUNFISH	21378	15.3	5064	4.3	2.37	28.5	1.13	40.1	48
ANY BLACK BASS	84	130.6	20	0.0	0.00		0.00		1
SMALLMOUTH BASS	7757	26.0	1783	1.6	0.28	81.2	0.00		28
SPOTTED BASS	153	146.7	32	0.0	0.00		0.00		1
LARGEMOUTH BASS	156848	7.3	36874	31.9	0.56	31.2	0.03	55.1	467
ANY CRAPPIE	109781	9.1	24747	22.3	1.40	21.9	0.50	19.0	366
ANY SPECIES	114891	7.4	27244	23.3	1.28	41.7	0.48	54.5	284
OTHER	363	98.6	78	0.1	0.00		0.00		1
TOTAL	**492224**		**114955**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2010

LAKE=PERCY PRIEST

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	BLACK BULLHEAD	0.00	0.00
	BLUE CATFISH	0.01	0.01
	CHANNEL CATFISH	0.30	0.27
	FLATHEAD CATFISH	0.06	0.05
ANY SUNFISH			
	GREEN SUNFISH	0.42	0.29
	WARMOUTH	0.01	0.01
	BLUEGILL	1.74	0.73
	LONGEAR SUNFISH	0.19	0.11
	REDEAR SUNFISH	0.01	0.00
ANY BLACK BASS			
	SMALLMOUTH BASS	0.02	0.00
	SPOTTED BASS	0.02	0.01
	LARGEMOUTH BASS	0.65	0.05
	LARGEMOUTH BASS	0.65	0.05
ANY CRAPPIE			
	WHITE CRAPPIE	0.83	0.29
	BLACK CRAPPIE	0.57	0.21
	BLACKNOSE CRAPPIE	0.00	0.00

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=PERCY PRIEST

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.70	7
02 FEBRUARY	41	0.34	5	0.25	19
03 MARCH	0		0	0.33	30
04 APRIL	0		0	0.45	29
05 MAY	28	1.46	3	0.76	14
06 JUNE	32	0.62	15	0.73	70
07 JULY	24	0.60	5	0.38	23
08 AUGUST	4	0.47	5	0.52	76
09 SEPTEMBER	43	0.69	18	0.43	54
10 OCTOBER	18	0.38	11	0.41	44
11 NOVEMBER	48	0.45	20	0.28	36
12 DECEMBER	0		0	0.30	12

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2010

LAKE=PERCY PRIEST

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	60330	64510	124840	25
WHITE BASS	31440	6420	37860	12
STRIPED BASS	59600	20730	80330	19
CHEROKEE BASS	42330	42450	84780	22
ANY SUNFISH	25960	28700	54670	13
SMALLMOUTH BASS	27680	19250	46930	18
SPOTTED BASS	640	640	1270	1
LARGEMOUTH BASS	597970	178060	776030	84
ANY CRAPPIE	315260	152220	467480	70
ANY SPECIES	198210	65780	263990	29
TOTAL	**1359420**	**578760**	**1938180**	**293**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2010

LAKE=PERCY PRIEST

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	535	96.4
OTHERS	20	3.6

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
DAVIDSON	143	27.1
RUTHERFORD	231	43.8
WILLIAMSON	31	5.9
WILSON	62	11.7
OTHERS IN TN	61	11.6

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	426	77.7
B) 26-100	102	18.6
C) 101-250	8	1.5
D) > 250	12	2.2

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	292	99.3
B) VACATION	2	0.7

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	284	96.6
B) 2-5	5	1.7
C) 6-10	3	1.0
D) 11-15	2	0.7

OLD HICKORY RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2010

LAKE=OLD HICKORY

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	29630	67.0	1.3	6797	0.3	4.4
02 FEBRUARY	14926	31.5	0.7	3706	0.2	2.2
03 MARCH	83766	33.2	3.7	17423	0.8	12.5
04 APRIL	104840	16.0	4.7	22511	1.0	15.6
05 MAY	69320	48.6	3.1	13263	0.6	10.3
06 JUNE	70800	19.1	3.1	15673	0.7	10.6
07 JULY	98831	15.4	4.4	20962	0.9	14.7
08 AUGUST	39741	34.8	1.8	11365	0.5	5.9
09 SEPTEMBER	48683	21.3	2.2	12485	0.6	7.3
10 OCTOBER	70884	17.7	3.2	17001	0.8	10.6
11 NOVEMBER	25845	23.9	1.1	5759	0.3	3.9
12 DECEMBER	13550	63.3	0.6	2783	0.1	2.0
TOTAL	**670816**			**149728**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2010

LAKE=OLD HICKORY

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	5630	82.7	0.19	39.3	1778	105.7	0.06	67.5
02 FEBRUARY	5523	67.6	0.37	57.7	3582	63.3	0.24	52.1
03 MARCH	109733	47.4	1.31	32.2	59474	79.1	0.71	67.8
04 APRIL	197099	21.7	1.88	14.6	61856	25.0	0.59	19.1
05 MAY	108139	50.4	1.56	12.1	19410	51.8	0.28	16.4
06 JUNE	84960	28.5	1.20	20.9	12744	40.6	0.18	35.7
07 JULY	87960	38.7	0.89	35.1	20755	35.8	0.21	31.2
08 AUGUST	28614	39.1	0.72	16.8	8346	69.0	0.21	55.4
09 SEPTEMBER	67183	40.2	1.38	33.3	7789	43.1	0.16	37.0
10 OCTOBER	65213	23.4	0.92	15.0	18430	32.3	0.26	26.3
11 NOVEMBER	30239	35.3	1.17	25.2	7495	31.9	0.29	20.6
12 DECEMBER	12195	91.2	0.90	55.7	3117	103.8	0.23	70.9
TOTAL	**802488**				**224776**			

SUMMARY OF SPECIES CATCH STATISTICS - 2010

LAKE=OLD HICKORY

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CARP	491	1460.6	0.1	327	0	.	0.0	0	100.0	.	0
BIGMOUTH BUFFALO	118	2580.1	0.0	0	0	.	0.0	0	100.0	.	0
BLACK BUFFALO	103	1546.3	0.0	103	0	.	0.0	0	100.0	.	0
BLACK BULLHEAD	166	938.9	0.0	166	166	938.9	0.1	166	0.0	0.30	1
BLUE CATFISH	3085	366.7	0.4	2622	1330	227.9	0.6	887	56.9	4.68	9
CHANNEL CATFISH	45634	38.5	5.7	37549	31973	45.4	14.2	27167	29.9	2.67	153
FLATHEAD CATFISH	1783	331.0	0.2	892	1298	346.5	0.6	721	27.2	6.01	9
WHITE BASS	46344	39.8	5.8	21744	23200	58.8	10.3	14122	49.9	0.99	115
YELLOW BASS	17402	91.9	2.2	1328	2627	118.1	1.2	691	84.9	0.48	19
STRIPED BASS	11330	131.8	1.4	8963	6191	152.1	2.8	4762	45.4	12.52	26
CHEROKEE BASS	935	842.0	0.1	312	180	1907.4	0.1	180	80.7	3.80	1
ROCK BASS	180	1907.4	0.0	0	180	1907.4	0.1	0	0.0	0.40	1
REDBREAST SUNFISH	118	2580.1	0.0	118	0	.	0.0	0	100.0	.	0
GREEN SUNFISH	9016	134.0	1.1	8875	6363	130.1	2.8	6218	29.4	0.17	44
WARMOUTH	3906	292.5	0.5	1465	737	428.4	0.3	590	81.1	0.30	5
BLUEGILL	120089	20.3	15.0	63333	17763	33.8	7.9	13602	85.2	0.21	111
LONGEAR SUNFISH	5520	193.5	0.7	5018	1676	201.4	0.7	1524	69.6	0.11	11
REDEAR SUNFISH	2316	287.1	0.3	1828	1365	381.4	0.6	1062	41.1	0.26	9
SMALLMOUTH BASS	5986	159.7	0.7	1460	621	225.8	0.3	311	89.6	1.58	2
SPOTTED BASS	7074	210.6	0.9	141	1054	754.6	0.5	0	85.1	0.85	4
LARGEMOUTH BASS	296395	14.5	36.9	273301	37448	29.5	16.7	34567	87.4	2.04	182
WHITE CRAPPIE	132550	20.2	16.5	123139	58881	30.6	26.2	54792	55.6	0.88	288
BLACK CRAPPIE	36885	51.3	4.6	35513	13084	87.1	5.8	12166	64.5	0.79	57
BLACKNOSE CRAPPIE	3074	451.1	0.4	3074	246	532.2	0.1	246	92.0	1.00	2
SAUGER	35247	57.3	4.4	22488	13642	90.9	6.1	7579	61.3	1.45	63
WALLEYE	4430	229.4	0.6	3164	3725	244.8	1.7	2540	15.9	3.63	22
FRESHWATER DRUM	11882	108.0	1.5	1514	698	156.3	0.3	558	94.1	0.62	5

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2010

LAKE=OLD HICKORY

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	73631	13.0	16396	11.0	0.42	44.7	0.27	45.1	131
WHITE BASS	16758	20.6	3748	2.5	0.59	49.7	0.39	73.3	33
STRIPED BASS	42548	18.4	9618	6.3	0.11	61.2	0.05	69.1	76
CHEROKEE BASS	1609	57.2	342	0.2	0.00		0.00		3
ANY SUNFISH	27927	18.3	6309	4.2	2.16	53.5	0.34	130.4	45
SMALLMOUTH BASS	819	87.6	179	0.1	0.69		0.00		2
LARGEMOUTH BASS	249440	9.7	55802	37.2	0.84	17.3	0.07	31.3	532
ANY CRAPPIE	104013	13.0	22747	15.5	1.20	35.5	0.39	23.8	213
SAUGER	28485	23.1	6407	4.2	0.54	47.3	0.15	61.1	59
WALLEYE	18072	24.3	4077	2.7	0.11	58.6	0.08	65.1	28
SAUGEYE	330	141.2	69	0.0	0.00		0.00		1
ANY SPECIES	107178	10.8	24037	16.0	0.94	32.0	0.33	55.8	181
TOTAL	**670810**		**149731**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2010

LAKE=OLD HICKORY

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	BLACK BULLHEAD	0.00	0.00
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.03	0.01
	CHANNEL CATFISH	0.38	0.25
	FLATHEAD CATFISH	0.01	0.01
ANY SUNFISH			
	REDBREAST SUNFISH	0.00	0.00
	GREEN SUNFISH	0.24	0.09
	WARMOUTH	0.04	0.01
	BLUEGILL	1.70	0.20
	LONGEAR SUNFISH	0.13	0.02
	REDEAR SUNFISH	0.05	0.02
ANY BLACK BASS			
	SMALLMOUTH BASS	0.01	0.00
	SPOTTED BASS	0.00	0.00
	LARGEMOUTH BASS	1.09	0.14
ANY CRAPPIE			
	WHITE CRAPPIE	0.91	0.32
	BLACK CRAPPIE	0.26	0.07
	BLACKNOSE CRAPPIE	0.02	0.00

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=OLD HICKORY

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.04	14
02 FEBRUARY	0		0	0.32	11
03 MARCH	26	0.56	7	0.81	47
04 APRIL	14	1.32	5	1.32	42
05 MAY	38	0.91	12	1.41	34
06 JUNE	10	0.95	4	1.20	75
07 JULY	48	0.61	38	0.78	87
08 AUGUST	2	0.40	2	0.51	36
09 SEPTEMBER	1	1.00	1	0.60	32
10 OCTOBER	0		0	0.59	79
11 NOVEMBER	0		0	1.04	6
12 DECEMBER	0		0	0.00	2

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2010

LAKE=OLD HICKORY

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	247510	109490	357000	46
WHITE BASS	8440	8980	17420	5
STRIPED BASS	233050	127710	360760	28
CHEROKEE BASS	4070	8230	12300	2
ANY SUNFISH	68810	16650	85460	22
SMALLMOUTH BASS	1430	1430	2870	1
LARGEMOUTH BASS	812970	321300	1134260	118
ANY CRAPPIE	221950	91560	313510	47
SAUGER	78680	58750	137430	15
WALLEYE	47260	29160	76430	9
ANY SPECIES	317910	56990	374910	34
TOTAL	**2042080**	**830250**	**2872350**	**327**

SUMMARY OF SOCIOLOGICAL QUESTIONS – 2010

LAKE=OLD HICKORY

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	581	91.2
OTHERS	56	8.8

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
DAVIDSON	94	16.1
MACON	30	5.1
SMITH	36	6.2
SUMNER	131	22.5
WILSON	179	30.7
OTHERS IN TN	101	17.3
OUT-OF-STATE	12	2.1

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	471	75.1
B) 26-100	119	19.0
C) 101-250	10	1.6
D) > 250	27	4.3

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	328	99.4
B) VACATION	1	0.3
D) OTHER	1	0.3

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	318	96.4
B) 2-5	5	1.5
C) 6-10	3	0.9
D) 11-15	1	0.3
F) >20	3	0.9

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REGION III

CENTER HILL RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2010

LAKE=CENTER HILL

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	13930	51.2	0.8	2539	0.1	5.0
02 FEBRUARY	7070	53.9	0.4	1418	0.1	2.5
03 MARCH	32260	39.7	1.8	4942	0.3	11.5
04 APRIL	58876	14.5	3.2	9289	0.5	21.1
05 MAY	24309	22.7	1.3	4269	0.2	8.7
06 JUNE	20922	16.7	1.1	3980	0.2	7.5
07 JULY	17912	15.4	1.0	3446	0.2	6.4
08 AUGUST	16619	13.1	0.9	3325	0.2	5.9
09 SEPTEMBER	24864	15.4	1.4	4612	0.3	8.9
10 OCTOBER	38336	18.5	2.1	6381	0.4	13.7
11 NOVEMBER	14579	29.4	0.8	2709	0.1	5.2
12 DECEMBER	9723	55.1	0.5	1858	0.1	3.5
TOTAL	**279400**			**48768**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2010

LAKE=CENTER HILL

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	3622	84.0	0.26	58.2	1254	98.5	0.09	77.8
02 FEBRUARY	4171	77.1	0.59	48.5	2757	81.6	0.39	53.8
03 MARCH	9033	48.6	0.28	26.0	2903	50.1	0.09	29.3
04 APRIL	35326	26.1	0.60	21.6	17663	25.3	0.30	20.6
05 MAY	26983	45.3	1.11	38.2	17259	42.1	0.71	34.6
06 JUNE	42681	21.9	2.04	13.9	21131	21.9	1.01	13.9
07 JULY	9493	18.4	0.53	9.9	3941	27.3	0.22	21.9
08 AUGUST	11301	38.2	0.68	35.4	5484	58.7	0.33	56.6
09 SEPTEMBER	15913	22.0	0.64	15.4	6465	28.4	0.26	23.6
10 OCTOBER	26835	28.8	0.70	21.7	4217	31.8	0.11	24.6
11 NOVEMBER	11226	41.5	0.77	27.9	3791	42.9	0.26	30.5
12 DECEMBER	8167	66.0	0.84	31.9	3014	59.1	0.31	18.7
TOTAL	**204751**				**89879**			

SUMMARY OF SPECIES CATCH STATISTICS - 2010

LAKE=CENTER HILL

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CHANNEL CATFISH	4303	112.3	2.1	1943	3953	118.7	4.4	1942	8.1	4.12	57
FLATHEAD CATFISH	2521	155.7	1.2	2395	2521	155.7	2.8	2395	0.0	5.37	40
MUSKELLUNGE	54	1026.0	0.0	0	0	.	0.0	0	100.0	.	0
WHITE BASS	408	693.9	0.2	0	299	787.0	0.3	0	26.7	1.93	3
ROCK BASS	155	592.5	0.1	0	39	962.6	0.0	0	74.8	3.80	1
BLUEGILL	63941	16.7	31.2	56963	40016	21.9	44.5	35377	37.4	0.41	716
REDEAR SUNFISH	507	490.5	0.2	296	507	490.5	0.6	296	0.0	0.60	12
SMALLMOUTH BASS	18690	27.6	9.1	13561	1102	108.0	1.2	812	94.1	3.11	19
SPOTTED BASS	60572	12.8	29.5	52745	22906	18.9	25.5	19377	62.2	1.49	344
LARGEMOUTH BASS	7106	56.3	3.5	6208	1328	134.9	1.5	1258	81.3	3.52	19
WHITE CRAPPIE	367	424.8	0.2	367	367	424.8	0.4	367	0.0	0.80	5
BLACK CRAPPIE	2705	189.1	1.3	2705	1663	205.8	1.9	1663	38.5	1.29	21
BLACKNOSE CRAPPIE	21634	36.7	10.6	21417	9160	51.6	10.2	8955	57.7	1.18	134
WALLEYE	20062	30.4	9.8	19831	5915	66.4	6.6	5810	70.5	2.60	113
FRESHWATER DRUM	356	495.5	0.2	0	100	965.9	0.1	0	71.9	6.00	1

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2010

LAKE=CENTER HILL

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	7882	25.3	1372	2.8	0.32	39.7	0.32	39.7	14
ANY SUNFISH	21662	15.2	3881	7.8	3.60	28.1	2.42	25.3	37
ANY BLACK BASS	131316	11.7	22202	47.0	0.54	17.9	0.16	26.0	328
SMALLMOUTH BASS	9298	28.1	1681	3.3	0.27	51.0	0.00		22
SPOTTED BASS	10296	19.6	1935	3.7	0.76	32.5	0.45	50.4	26
LARGEMOUTH BASS	418	98.7	78	0.1	0.00		0.00		1
ANY CRAPPIE	28806	15.4	4997	10.3	1.49	48.2	0.63	73.6	69
WALLEYE	56935	9.4	10396	20.4	0.42	33.1	0.14	43.5	155
ANY SPECIES	12787	20.0	2228	4.6	0.14	87.5	0.07	102.4	22
TOTAL	**279400**		**48770**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2010

LAKE=CENTER HILL

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	CHANNEL CATFISH	0.14	0.14
	FLATHEAD CATFISH	0.18	0.18
ANY SUNFISH			
	BLUEGILL	3.58	2.40
	REDEAR SUNFISH	0.02	0.02
ANY BLACK BASS			
	ANY BLACK BASS	0.00	0.00
	SMALLMOUTH BASS	0.09	0.01
	SPOTTED BASS	0.35	0.13
	LARGEMOUTH BASS	0.04	0.01
ANY CRAPPIE			
	ANY CRAPPIE	0.00	0.00
	WHITE CRAPPIE	0.02	0.02
	BLACK CRAPPIE	0.16	0.10
	BLACKNOSE CRAPPIE	1.30	0.51

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=CENTER HILL

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	16	0.09	3	0.38	30
02 FEBRUARY	20	0.45	3	0.26	22
03 MARCH	54	0.26	30	0.34	43
04 APRIL	30	0.43	15	0.61	57
05 MAY	70	0.52	8	0.34	13
06 JUNE	0		0	0.83	10
07 JULY	0		0	0.30	18
08 AUGUST	0		0	0.53	13
09 SEPTEMBER	0		0	0.93	25
10 OCTOBER	25	0.62	9	0.77	40
11 NOVEMBER	0		0	1.05	21
12 DECEMBER	25	0.90	3	0.38	14

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2010

LAKE=CENTER HILL

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	19450	16140	35580	14
ANY SUNFISH	49890	34860	84750	37
ANY BLACK BASS	540550	382030	922580	328
SMALLMOUTH BASS	51600	27940	59210	22
SPOTTED BASS	37300	26220	61000	26
LARGEMOUTH BASS	2710	1160	3880	1
ANY CRAPPIE	57160	43260	97960	69
WALLEYE	141650	98980	240640	155
ANY SPECIES	16670	11920	28590	22
TOTAL	**916980**	**642510**	**1534190**	**674**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2010

LAKE=CENTER HILL

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	1292	98.3
OTHERS	22	1.7

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
DAVIDSON	106	8.2
DEKALB	235	18.2
PUTNAM	352	27.3
RUTHERFORD	66	5.1
SMITH	79	6.1
WARREN	143	11.1
WILSON	80	6.2
OTHERS IN TN	227	17.6

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	887	67.5
B) 26-100	395	30.1
C) 101-250	10	0.8
D) > 250	22	1.7

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	676	97.3
B) VACATION	19	2.7

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	637	91.7
B) 2-5	32	4.6
C) 6-10	23	3.3
D) 11-15	3	0.4

CHICKAMAUGA RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2010

LAKE=CHICKAMAUGA

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	16643	26.2	0.5	2666	0.1	2.5
02 FEBRUARY	26112	15.1	0.8	4281	0.1	3.9
03 MARCH	84975	5.9	2.5	12833	0.4	12.8
04 APRIL	100125	44.9	2.9	14907	0.4	15.1
05 MAY	70082	8.8	2.0	10265	0.3	10.6
06 JUNE	88721	25.4	2.6	13109	0.4	13.4
07 JULY	34440	11.3	1.0	5139	0.1	5.2
08 AUGUST	36374	6.2	1.1	5297	0.2	5.5
09 SEPTEMBER	80585	30.7	2.3	12182	0.4	12.2
10 OCTOBER	75217	48.0	2.2	11431	0.3	11.4
11 NOVEMBER	38929	4.6	1.1	5895	0.2	5.9
12 DECEMBER	10395	.	0.3	1744	0.1	1.6
TOTAL	**662598**			**99749**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2010

LAKE=CHICKAMAUGA

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	49097	39.0	2.95	27.9	9320	38.8	0.56	27.6
02 FEBRUARY	58491	21.8	2.24	15.6	11489	25.3	0.44	20.4
03 MARCH	220085	11.1	2.59	9.4	51835	22.8	0.61	22.1
04 APRIL	264330	46.0	2.64	9.2	92115	49.2	0.92	18.4
05 MAY	192726	12.5	2.75	8.9	44852	21.2	0.64	19.1
06 JUNE	224464	29.1	2.53	13.8	38150	35.0	0.43	23.5
07 JULY	68536	16.2	1.99	11.5	9299	24.5	0.27	21.7
08 AUGUST	92026	19.1	2.53	18.1	24371	22.5	0.67	21.6
09 SEPTEMBER	186151	33.8	2.31	13.4	29816	34.5	0.37	14.9
10 OCTOBER	220386	49.3	2.93	9.8	50395	50.2	0.67	13.2
11 NOVEMBER	73187	6.8	1.88	4.9	19075	13.5	0.49	12.7
12 DECEMBER	24428	.	2.35	.	3534	.	0.34	.
TOTAL	**1673907**				**384251**			

SUMMARY OF SPECIES CATCH STATISTICS - 2010

LAKE=CHICKAMAUGA

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
PADDLEFISH	166	3041.9	0.0	0	0	.	0.0	0	100.0	.	0
BLUE CATFISH	206950	15.7	12.4	194756	79431	18.6	20.7	76992	61.6	3.39	999
CHANNEL CATFISH	56770	41.7	3.4	51485	27682	45.7	7.2	26172	51.2	3.37	272
FLATHEAD CATFISH	5686	291.0	0.3	3755	1995	296.5	0.5	1995	64.9	4.23	20
WHITE BASS	53282	52.7	3.2	13797	18196	66.3	4.7	6434	65.8	1.26	181
YELLOW BASS	148053	20.1	8.8	42923	391	89.0	0.1	391	99.7	0.32	9
STRIPED BASS	22672	128.4	1.4	19824	2628	255.5	0.7	2378	88.4	17.86	21
WARMOUTH	6150	287.4	0.4	2089	4045	277.2	1.1	1093	34.2	0.45	31
BLUEGILL	370552	13.1	22.1	224914	69757	20.2	18.2	51883	81.2	0.27	758
LONGEAR SUNFISH	100	1599.3	0.0	100	100	1599.3	0.0	100	0.0	0.20	2
REDEAR SUNFISH	55955	68.1	3.3	54949	36341	71.7	9.5	35841	35.1	0.36	286
SMALLMOUTH BASS	19578	104.1	1.2	17534	0	.	0.0	0	100.0	.	0
SPOTTED BASS	63156	33.2	3.8	55432	261	140.5	0.1	261	99.6	1.30	5
LARGEMOUTH BASS	344798	13.7	20.6	322969	23516	23.9	6.1	22396	93.2	2.90	224
WHITE CRAPPIE	63400	39.1	3.8	59637	26473	48.2	6.9	24827	58.2	0.84	193
BLACK CRAPPIE	208103	19.6	12.4	199342	89451	22.8	23.3	85096	57.0	0.85	1019
BLACKNOSE CRAPPIE	2364	339.1	0.1	2206	457	586.4	0.1	457	80.7	1.00	6
SAUGER	11533	88.7	0.7	10142	3257	193.5	0.8	2888	71.8	1.67	53
FRESHWATER DRUM	33219	62.0	2.0	4968	0	.	0.0	0	100.0	.	0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2010

LAKE=CHICKAMAUGA

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	148757	10.7	22411	22.5	1.23	14.2	0.54	22.5	296
WHITE BASS	3101	51.8	466	0.5	2.22	7.9	1.30	17.9	6
STRIPED BASS	16386	25.7	2453	2.5	0.84	36.3	0.11	91.8	26
ANY SUNFISH	2237	58.9	337	0.3	9.29	87.1	2.61	0.0	5
ANY BLACK BASS	273195	11.1	41010	41.2	1.02	13.7	0.06	41.2	592
LARGEMOUTH BASS	1199		201	0.2	0.48		0.00		1
ANY CRAPPIE	77955	14.8	11855	11.8	2.41	14.9	1.07	16.8	152
SAUGER	3655	35.0	588	0.6	1.59	20.9	0.56	35.7	9
ANY SPECIES	136110	12.1	20427	20.5	3.62	21.1	1.19	36.2	265
TOTAL	**662595**		**99748**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2010

LAKE=CHICKAMAUGA

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.96	0.40
	CHANNEL CATFISH	0.25	0.13
	FLATHEAD CATFISH	0.02	0.01
ANY SUNFISH			
	WARMOUTH	0.07	0.03
	BLUEGILL	7.41	1.52
	LONGEAR SUNFISH	0.00	0.00
	REDEAR SUNFISH	1.81	1.05
ANY BLACK BASS			
	SMALLMOUTH BASS	0.06	0.00
	SPOTTED BASS	0.20	0.00
	LARGEMOUTH BASS	1.18	0.08
ANY CRAPPIE			
	WHITE CRAPPIE	0.55	0.24
	BLACK CRAPPIE	1.84	0.82
	BLACKNOSE CRAPPIE	0.02	0.00

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=CHICKAMAUGA

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	1.19	16
02 FEBRUARY	0		0	0.78	36
03 MARCH	27	0.94	5	0.71	36
04 APRIL	3	1.18	2	0.84	51
05 MAY	0	2.59	1	1.20	87
06 JUNE	15	1.96	7	1.32	43
07 JULY	0		0	0.98	74
08 AUGUST	13	1.14	5	0.92	54
09 SEPTEMBER	28	1.44	11	0.98	54
10 OCTOBER	6	3.55	4	0.83	56
11 NOVEMBER	0		0	0.71	39
12 DECEMBER	0		0	0.61	3

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS
FOR INTENDED SPECIES - 2010

LAKE=CHICKAMAUGA

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	394190	417750	811940	269
WHITE BASS	19860	16000	35860	5
STRIPED BASS	175850	119660	295510	24
ANY SUNFISH	9650	11830	21480	5
ANY BLACK BASS	909250	915900	1825150	525
LARGEMOUTH BASS	9320	3350	12680	1
ANY CRAPPIE	220570	209680	430240	146
SAUGER	6470	10790	17250	9
ANY SPECIES	233490	254130	487620	211
TOTAL	**1978650**	**1959090**	**3937730**	**1195**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2010

LAKE=CHICKAMAUGA

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
GA	179	6.5
TN	2540	91.9
OTHERS	45	1.6

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BRADLEY	394	15.5
HAMILTON	702	27.6
McMINN	209	8.2
MEIGS	315	12.4
RHEA	363	14.3
SEQUATCHIE	129	5.1
OTHERS IN TN	425	16.7
OUT-OF-STATE	5	0.2

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	1932	70.3
B) 26-100	745	27.1
C) 101-250	52	1.9
D) > 250	20	0.7

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	1271	100

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	1239	97.3
B) 2-5	17	1.3
C) 6-10	17	1.3

WATTS BAR RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2010

LAKE=WATTS BAR

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	19254	36.4	0.5	3965	0.1	4.1
02 FEBRUARY	18370	14.6	0.5	3284	0.1	3.9
03 MARCH	72727	31.4	1.9	11268	0.3	15.4
04 APRIL	49108	17.6	1.3	7219	0.2	10.4
05 MAY	49618	25.9	1.3	7190	0.2	10.5
06 JUNE	88700	34.4	2.3	13218	0.3	18.8
07 JULY	39799	22.4	1.0	5505	0.1	8.4
08 AUGUST	31585	32.7	0.8	4938	0.1	6.7
09 SEPTEMBER	43187	19.5	1.1	6497	0.2	9.2
10 OCTOBER	35319	22.7	0.9	5296	0.1	7.5
11 NOVEMBER	21640	10.8	0.6	3433	0.1	4.6
12 DECEMBER	1781	11.1	0.0	317	0.0	0.4
TOTAL	**471088**			**72130**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2010

LAKE=WATTS BAR

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	38893	71.3	2.02	57.5	13285	89.6	0.69	76.4
02 FEBRUARY	31780	21.8	1.73	16.0	5144	30.1	0.28	25.6
03 MARCH	106181	34.0	1.46	12.3	26182	49.4	0.36	35.9
04 APRIL	82010	23.1	1.67	14.7	24063	30.4	0.49	24.3
05 MAY	100228	30.3	2.02	15.3	15878	38.7	0.32	27.9
06 JUNE	180061	39.2	2.03	17.7	29271	44.8	0.33	27.3
07 JULY	49351	30.3	1.24	19.9	4776	58.2	0.12	54.0
08 AUGUST	45167	47.3	1.43	32.5	4422	60.8	0.14	48.3
09 SEPTEMBER	72554	24.8	1.68	15.1	10365	59.9	0.24	56.0
10 OCTOBER	64281	25.5	1.82	11.4	14481	25.3	0.41	10.9
11 NOVEMBER	34840	15.2	1.61	10.6	10387	11.6	0.48	4.3
12 DECEMBER	695	69.3	0.39	68.0	142	102.1	0.08	100.0
TOTAL	**806041**				**158396**			

SUMMARY OF SPECIES CATCH STATISTICS - 2010

LAKE=WATTS BAR

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
BLUE CATFISH	118628	23.8	14.7	108330	27343	29.7	17.3	26229	77.0	4.34	210
CHANNEL CATFISH	7518	150.7	0.9	6868	2302	174.7	1.5	2302	69.4	2.91	28
FLATHEAD CATFISH	11153	131.8	1.4	8145	2195	192.3	1.4	2195	80.3	6.31	17
WHITE BASS	92349	30.2	11.5	60137	33258	35.4	21.0	26548	64.0	1.24	222
YELLOW BASS	36127	60.1	4.5	13981	0	.	0.0	0	100.0	.	0
STRIPED BASS	62404	50.6	7.7	55188	6440	81.3	4.1	4796	89.7	17.29	47
WARMOUTH	577	1260.1	0.1	0	0	.	0.0	0	100.0	.	0
BLUEGILL	69121	39.8	8.6	31111	3669	57.5	2.3	2242	94.7	0.23	36
REDEAR SUNFISH	3161	508.7	0.4	2432	1928	408.6	1.2	1446	39.0	0.34	8
SMALLMOUTH BASS	38424	46.1	4.8	34386	906	111.2	0.6	680	97.6	4.61	8
SPOTTED BASS	23617	71.4	2.9	20714	0	.	0.0	0	100.0	.	0
LARGEMOUTH BASS	180526	17.2	22.4	163073	13670	30.0	8.6	12519	92.4	2.80	95
WHITE CRAPPIE	67252	27.7	8.3	58993	32968	30.3	20.8	28923	51.0	0.85	325
BLACK CRAPPIE	49602	48.5	6.2	42791	24999	43.4	15.8	22576	49.6	0.85	190
BLACKNOSE CRAPPIE	3233	384.7	0.4	3079	1898	262.9	1.2	1898	41.3	0.99	15
YELLOW PERCH	13	764.9	0.0	0	0	.	0.0	0	100.0	.	0
SAUGER	25015	58.4	3.1	20951	6811	78.3	4.3	5539	72.8	1.53	89
FRESHWATER DRUM	16869	104.3	2.1	3300	0	.	0.0	0	100.0	.	0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2010

LAKE=WATTS BAR

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	78556	14.5	11890	16.7	1.12	24.9	0.30	53.1	109
WHITE BASS	13504	32.5	2008	2.9	2.47	35.8	1.06	73.9	17
STRIPED BASS	36702	19.8	5563	7.8	0.85	28.3	0.08	87.8	42
ANY BLACK BASS	201792	10.7	30662	42.8	0.75	17.7	0.04	71.4	323
LARGEMOUTH BASS	292	148.8	44	0.1	0.48		0.00		1
ANY CRAPPIE	45050	18.3	7008	9.6	1.69	21.6	0.83	23.6	72
SAUGER	10891	29.6	1853	2.3	1.37	52.3	0.40	50.2	22
ANY SPECIES	84299	13.7	13104	17.9	2.04	23.9	0.44	47.2	138
TOTAL	**471086**		**72132**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2010

LAKE=WATTS BAR

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.98	0.26
	CHANNEL CATFISH	0.06	0.02
	FLATHEAD CATFISH	0.07	0.02
ANY BLACK BASS			
ANY BLACK BASS			
	SMALLMOUTH BASS	0.17	0.00
	SPOTTED BASS	0.10	0.00
	LARGEMOUTH BASS	0.81	0.06
ANY CRAPPIE			
	WHITE CRAPPIE	0.95	0.45
	BLACK CRAPPIE	0.69	0.35
	BLACKNOSE CRAPPIE	0.05	0.03

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=WATTS BAR

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.67	18
02 FEBRUARY	0		0	0.71	16
03 MARCH	0		0	0.56	22
04 APRIL	29	1.03	6	0.78	31
05 MAY	0		0	0.95	48
06 JUNE	0		0	0.90	24
07 JULY	10	1.58	2	0.62	38
08 AUGUST	0		0	0.70	34
09 SEPTEMBER	0		0	0.69	29
10 OCTOBER	0		0	0.69	28
11 NOVEMBER	0		0	0.54	21
12 DECEMBER	0		0	0.35	2

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2010

LAKE=WATTS BAR

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	297460	280450	577920	92
WHITE BASS	37570	42770	80340	16
STRIPED BASS	226360	210630	436990	42
ANY BLACK BASS	779020	756940	1535960	292
LARGEMOUTH BASS	1490	880	2370	1
ANY CRAPPIE	172020	151010	323020	67
SAUGER	26710	49840	76550	21
ANY SPECIES	161570	159140	320720	109
TOTAL	**1702200**	**1651660**	**3353870**	**640**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2010

LAKE=WATTS BAR

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	1403	93.8
OTHERS	93	6.2

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BLOUNT	88	6.2
KNOX	183	13.0
LOUDON	209	14.8
McMINN	129	9.2
MEIGS	133	9.4
RHEA	116	8.2
ROANE	247	17.5
OTHERS IN TN	298	21.1
OUT-OF-STATE	6	0.4

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	921	62.5
B) 26-100	463	31.4
C) 101-250	35	2.4
D) > 250	54	3.7

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	685	99.9
C) BUSINESS	1	0.1

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	657	95.9
B) 2-5	12	1.8
C) 6-10	16	2.3

DALE HOLLOW RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2010

LAKE=DALE HOLLOW

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	27962	55.2	1.2	4589	0.2	8.4
02 FEBRUARY	8444	26.7	0.4	1448	0.1	2.5
03 MARCH	34141	20.4	1.5	4909	0.2	10.2
04 APRIL	51037	13.1	2.2	6929	0.3	15.3
05 MAY	41687	22.8	1.8	6287	0.3	12.5
06 JUNE	23643	15.7	1.0	4093	0.2	7.1
07 JULY	13672	8.6	0.6	2653	0.1	4.1
08 AUGUST	14843	16.0	0.6	3195	0.1	4.4
09 SEPTEMBER	31038	40.5	1.3	5199	0.2	9.3
10 OCTOBER	40310	10.6	1.7	6183	0.3	12.0
11 NOVEMBER	25074	32.0	1.1	3976	0.2	7.5
12 DECEMBER	22741	63.2	1.0	3283	0.1	6.8
TOTAL	**334592**			**52744**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2010

LAKE=DALE HOLLOW

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	12863	65.1	0.46	30.2	4474	113.8	0.16	85.2
02 FEBRUARY	760	49.8	0.09	39.1	0	.	0.00	100.0
03 MARCH	12632	45.8	0.37	40.6	6145	57.7	0.18	52.4
04 APRIL	28070	15.3	0.55	7.8	8676	22.6	0.17	18.3
05 MAY	30848	27.5	0.74	14.9	14590	27.4	0.35	15.0
06 JUNE	16550	26.7	0.70	21.2	7802	34.7	0.33	30.4
07 JULY	8887	25.3	0.65	23.7	4238	34.7	0.31	33.7
08 AUGUST	6531	31.5	0.44	27.0	1336	29.1	0.09	23.9
09 SEPTEMBER	19244	44.6	0.62	17.2	6208	58.2	0.20	39.1
10 OCTOBER	31845	20.7	0.79	17.6	9271	22.5	0.23	20.0
11 NOVEMBER	22817	32.8	0.91	7.2	6018	49.7	0.24	36.6
12 DECEMBER	9551	74.7	0.42	33.5	682	97.9	0.03	71.3
TOTAL	**200598**				**69440**			

SUMMARY OF SPECIES CATCH STATISTICS - 2010

LAKE=DALE HOLLOW

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CHANNEL CATFISH	4201	72.8	2.1	3541	3936	74.2	5.7	3453	6.3	4.23	114
RAINBOW TROUT	2118	148.0	1.1	2118	2118	148.0	3.1	2118	0.0	1.65	59
WHITE BASS	1648	139.2	0.8	909	1229	118.3	1.8	1092	25.4	2.33	18
ROCK BASS	485	425.7	0.2	0	0	.	0.0	0	100.0	.	0
BLUEGILL	33613	22.5	16.7	30477	18881	26.7	27.2	17135	43.8	0.42	530
REDEAR SUNFISH	14960	32.3	7.4	14520	11169	36.2	16.1	10815	25.3	0.59	347
SMALLMOUTH BASS	64191	15.3	32.0	55632	2992	53.7	4.3	2362	95.3	2.34	37
SPOTTED BASS	16409	32.0	8.2	11551	5299	51.3	7.6	2708	67.7	1.28	90
LARGEMOUTH BASS	13492	37.2	6.7	10106	1469	168.8	2.1	979	89.1	3.08	24
WHITE CRAPPIE	10252	67.5	5.1	10188	3698	75.6	5.3	3698	63.9	0.81	54
BLACK CRAPPIE	11421	51.1	5.7	11307	6337	66.7	9.1	6279	44.5	1.00	109
BLACKNOSE CRAPPIE	11555	56.9	5.8	10567	5494	79.1	7.9	5409	52.5	1.19	65
WALLEYE	10816	30.6	5.4	10743	6601	43.5	9.5	6528	39.0	3.02	182
SAUGEYE	267	353.6	0.1	0	143	302.3	0.2	0	46.4	3.27	3
FRESHWATER DRUM	418	361.4	0.2	0	70	509.4	0.1	0	83.3	10.03	3

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2010

LAKE=DALE HOLLOW

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	4776	26.3	740	1.4	0.44	40.9	0.44	40.9	18
MUSKELLUNGE	360	139.4	60	0.1	0.00		0.00		2
ANY TROUT	8836	20.9	1514	2.6	0.38	20.2	0.38	20.2	20
WHITE BASS	553	74.8	79	0.2	3.20	15.0	3.20	15.0	2
ANY SUNFISH	24384	13.8	3915	7.3	2.80	21.1	1.87	22.0	73
ANY BLACK BASS	67753	12.7	10589	20.2	0.42	24.4	0.05	87.7	236
SMALLMOUTH BASS	135772	13.7	20776	40.6	0.36	14.6	0.01	97.2	397
SPOTTED BASS	170	150.1	28	0.1	0.33		0.00		1
LARGEMOUTH BASS	1872	43.5	278	0.6	0.41	62.2	0.00		10
ANY CRAPPIE	43254	12.0	6540	12.9	1.08	30.1	0.39	35.0	141
WALLEYE	37891	10.6	6739	11.3	0.35	21.1	0.22	23.6	161
ANY SPECIES	8972	19.2	1488	2.7	0.15	143.9	0.05	260.9	28
TOTAL	**334593**		**52746**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2010

LAKE=DALE HOLLOW

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	CHANNEL CATFISH	0.44	0.44
ANY TROUT			
	RAINBOW TROUT	0.38	0.38
ANY SUNFISH			
	BLUEGILL	1.90	1.15
	REDEAR SUNFISH	0.90	0.72
ANY BLACK BASS			
	SMALLMOUTH BASS	0.27	0.01
	SPOTTED BASS	0.06	0.01
	LARGEMOUTH BASS	0.05	0.00
	LARGEMOUTH BASS	0.05	0.00
ANY CRAPPIE			
	ANY CRAPPIE	0.00	0.00
	WHITE CRAPPIE	0.34	0.09
	BLACK CRAPPIE	0.38	0.16
	BLACKNOSE CRAPPIE	0.36	0.14

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=DALE HOLLOW

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.31	44
02 FEBRUARY	3	0.00	1	0.10	49
03 MARCH	1	0.00	1	0.18	82
04 APRIL	4	0.51	8	0.34	137
05 MAY	3	1.03	1	0.41	64
06 JUNE	0	0.00	1	0.51	23
07 JULY	0		0	0.42	14
08 AUGUST	0		0	0.58	15
09 SEPTEMBER	4	0.10	1	0.56	58
10 OCTOBER	16	0.82	4	0.30	63
11 NOVEMBER	0		0	0.55	38
12 DECEMBER	20	0.57	7	0.45	33

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2010

LAKE=DALE HOLLOW

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	9020	5440	14470	18
MUSKELLUNGE	1920	1400	2810	2
ANY TROUT	75570	24780	100350	20
WHITE BASS	990	990	1990	2
ANY SUNFISH	53710	25870	79580	73
ANY BLACK BASS	274740	170040	444780	235
SMALLMOUTH BASS	773240	454860	1228100	397
SPOTTED BASS	710	280	990	1
LARGEMOUTH BASS	6400	8130	14530	10
ANY CRAPPIE	122170	74060	196230	141
WALLEYE	113930	74760	187700	159
ANY SPECIES	22520	15440	37950	28
TOTAL	**1454920**	**856050**	**2309480**	**1086**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2010

LAKE=DALE HOLLOW

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
IN	132	5.9
KY	602	26.8
OH	349	15.5
TN	1037	46.1
OTHERS	129	5.7

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
CLAY	231	22.3
DAVIDSON	100	9.6
FENTRESS	84	8.1
OVERTON	179	17.3
PICKETT	151	14.6
OTHERS IN TN	290	28.0
OUT-OF-STATE	2	0.2

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	739	32.9
B) 26-100	377	16.8
C) 101-250	477	21.2
D) > 250	656	29.2

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	1017	92
B) VACATION	89	8

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	592	53.6
B) 2-5	306	27.7
C) 6-10	186	16.8
D) 11-15	14	1.3
E) 16-20	1	0.1
F) >20	5	0.5

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MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2010

LAKE=NORRIS

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	10445	60.0	0.3	1922	0.1	3.6
02 FEBRUARY	7456	82.0	0.2	1342	0.0	2.6
03 MARCH	64708	37.5	1.9	11112	0.3	22.2
04 APRIL	44055	24.5	1.3	9671	0.3	15.1
05 MAY	50410	43.9	1.5	8799	0.3	17.3
07 JULY	33597	62.6	1.0	9011	0.3	11.5
08 AUGUST	25620	26.3	0.7	5397	0.2	8.8
09 SEPTEMBER	22176	32.8	0.6	5130	0.1	7.6
10 OCTOBER	7861	52.9	0.2	1752	0.1	2.7
11 NOVEMBER	19306	22.7	0.6	3222	0.1	6.6
12 DECEMBER	5616	46.2	0.2	1440	0.0	1.9
TOTAL	**291250**			**58798**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2010

LAKE=NORRIS

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	1776	74.1	0.17	38.0	104	161.5	0.01	100.0
02 FEBRUARY	2386	115.8	0.32	62.4	298	90.6	0.04	29.6
03 MARCH	31707	42.8	0.49	19.1	7118	53.5	0.11	37.3
04 APRIL	42293	45.9	0.96	37.9	2203	73.2	0.05	64.5
05 MAY	48898	53.4	0.97	27.9	7562	54.1	0.15	29.4
07 JULY	10415	87.5	0.31	51.4	0	.	0.00	.
08 AUGUST	7430	32.4	0.29	18.7	256	85.7	0.01	100.0
09 SEPTEMBER	13527	44.0	0.61	27.9	665	125.6	0.03	100.0
10 OCTOBER	786	75.9	0.10	48.3	157	131.2	0.02	100.0
11 NOVEMBER	8881	28.5	0.46	16.8	386	96.7	0.02	100.0
12 DECEMBER	4380	.	0.78	.	1797	.	0.32	.
TOTAL	**172479**				**20546**			

SUMMARY OF SPECIES CATCH STATISTICS - 2010

LAKE=NORRIS

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CARP	180	1296.0	0.1	0	0	.	0.0	0	100.0	.	0
CHANNEL CATFISH	7532	107.3	4.4	2379	4026	76.8	19.6	2013	46.5	2.44	12
FLATHEAD CATFISH	184	647.0	0.1	0	0	.	0.0	0	100.0	.	0
WHITE BASS	5396	223.9	3.1	0	0	.	0.0	0	100.0	.	0
STRIPED BASS	8181	127.8	4.7	6334	140	567.9	0.7	0	98.3	9.05	1
ROCK BASS	140	801.3	0.1	0	140	801.3	0.7	0	0.0	0.25	1
BLUEGILL	24053	63.5	14.0	18989	3150	88.2	15.3	1890	86.9	0.32	30
SMALLMOUTH BASS	48593	34.1	28.2	40748	279	164.7	1.4	279	99.4	1.68	2
SPOTTED BASS	26872	41.2	15.6	10248	1296	80.8	6.3	810	95.2	1.16	8
LARGEMOUTH BASS	24791	42.9	14.4	19877	2655	59.8	12.9	2213	89.3	1.80	18
WHITE CRAPPIE	4551	99.9	2.6	4063	2234	75.9	10.9	1915	50.9	0.76	14
BLACK CRAPPIE	16996	59.0	9.9	16196	4750	52.2	23.1	4574	72.1	0.87	27
BLACKNOSE CRAPPIE	361	911.2	0.2	361	0	.	0.0	0	100.0	.	0
SAUGER	1058	225.4	0.6	0	698	205.7	3.4	0	34.0	1.57	5
WALLEYE	2752	266.1	1.6	2752	1181	202.1	5.7	1181	57.1	2.89	7
FRESHWATER DRUM	721	323.0	0.4	0	0	.	0.0	0	100.0	.	0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2010

LAKE=NORRIS

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	3801	61.6	701	1.3	0.26		0.26		3
STRIPED BASS	26507	28.5	5643	9.1	0.18	49.8	0.00		26
ANY SUNFISH	13787	43.6	2573	4.7	1.03	65.2	0.32	88.4	8
ANY BLACK BASS	81944	19.6	16481	28.1	0.44	28.8	0.05	101.2	78
SMALLMOUTH BASS	44573	20.1	8273	15.3	0.39	63.7	0.00		42
SPOTTED BASS	558	146.9	96	0.2	2.00		2.00		1
LARGEMOUTH BASS	9719	45.4	1811	3.3	0.38	122.0	0.00		8
ANY CRAPPIE	22261	31.0	4357	7.6	0.71	67.5	0.24	42.1	23
WALLEYE	43013	29.5	9007	14.8	0.03	115.7	0.02	135.2	38
ANY SPECIES	45082	30.4	9857	15.5	0.51	113.9	0.01	165.1	27
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TOTAL	**291245**		**58799**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2010

LAKE=NORRIS

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	CHANNEL CATFISH	0.26	0.26
	FLATHEAD CATFISH	0.00	0.00
ANY SUNFISH			
	BLUEGILL	1.03	0.32
	LONGEAR SUNFISH	0.00	0.00
ANY BLACK BASS			
	SMALLMOUTH BASS	0.30	0.00
	SPOTTED BASS	0.07	0.01
	LARGEMOUTH BASS	0.15	0.02
	LARGEMOUTH BASS	0.15	0.02
ANY CRAPPIE			
	WHITE CRAPPIE	0.14	0.07
	BLACK CRAPPIE	0.56	0.17
	BLACKNOSE CRAPPIE	0.01	0.00

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=NORRIS

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.31	14
02 FEBRUARY	50	0.50	2	0.00	2
03 MARCH	45	0.16	9	0.35	26
04 APRIL	0		0	0.58	23
05 MAY	1	0.00	3	0.87	11
07 JULY	100	0.00	1		
08 AUGUST	12	0.00	2	0.24	11
09 SEPTEMBER	0		0	0.79	7
10 OCTOBER	0		0	0.16	4
11 NOVEMBER	0		0	0.20	10
12 DECEMBER	0		0	0.30	2

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS
FOR INTENDED SPECIES - 2010

LAKE=NORRIS

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	2880	2160	5050	2
STRIPED BASS	67250	89040	156290	20
ANY SUNFISH	24300	20430	44730	8
ANY BLACK BASS	325210	323370	594510	66
SMALLMOUTH BASS	144740	98240	197550	32
LARGEMOUTH BASS	44350	99670	144020	6
ANY CRAPPIE	43230	62310	105540	19
WALLEYE	102450	86680	189130	28
ANY SPECIES	103180	102090	205270	20
TOTAL	**857590**	**883990**	**1642090**	**201**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2010

LAKE=NORRIS

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
KY	49	10.4
TN	406	85.8
OTHERS	18	3.8

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
ANDERSON	147	36.7
CAMPBELL	51	12.7
CLAIBORNE	78	19.5
KNOX	51	12.7
UNION	49	12.2
OTHERS IN TN	23	5.7
OUT-OF-STATE	2	0.5

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	383	80.5
B) 26-100	68	14.3
C) 101-250	6	1.3
D) > 250	19	4.0

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	255	99.6
B) VACATION	1	0.4

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	243	94.9
B) 2-5	12	4.7
C) 6-10	1	0.4

MELTON HILL RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2010

LAKE=MELTON HILL

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	2944	33.8	0.5	689	0.1	3.8
02 FEBRUARY	8722	11.4	1.5	2333	0.4	11.3
03 MARCH	10884	16.1	1.9	2527	0.4	14.1
04 APRIL	14348	15.6	2.5	3368	0.6	18.6
05 MAY	6592	16.6	1.2	1825	0.3	8.5
06 JUNE	7927	20.6	1.4	2157	0.4	10.3
07 JULY	6698	30.6	1.2	2233	0.4	8.7
08 AUGUST	5203	22.4	0.9	1368	0.2	6.7
09 SEPTEMBER	2894	12.7	0.5	715	0.1	3.8
10 OCTOBER	7621	11.2	1.3	1923	0.3	9.9
11 NOVEMBER	2121	25.6	0.4	539	0.1	2.8
12 DECEMBER	1143	37.7	0.2	329	0.1	1.5
TOTAL	**77097**			**20006**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2010

LAKE=MELTON HILL

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	530	62.5	0.18	50.1	0	.	0.00	.
02 FEBRUARY	3663	20.4	0.42	16.6	1134	34.9	0.13	34.0
03 MARCH	5877	22.5	0.54	15.7	762	38.9	0.07	33.8
04 APRIL	15209	26.7	1.06	21.4	2296	26.8	0.16	21.8
05 MAY	5867	35.8	0.89	31.1	1252	66.1	0.19	64.8
06 JUNE	2457	32.9	0.31	25.2	317	82.6	0.04	71.5
07 JULY	1005	83.8	0.15	75.1	0	.	0.00	.
08 AUGUST	1925	47.0	0.37	40.8	0	.	0.00	100.0
09 SEPTEMBER	2576	31.4	0.89	28.5	29	90.5	0.01	100.0
10 OCTOBER	6935	19.5	0.91	15.7	381	57.6	0.05	61.6
11 NOVEMBER	721	49.0	0.34	40.7	85	64.9	0.04	65.8
12 DECEMBER	0	.	0.00	.	0	.	0.00	.
TOTAL	**46765**				**6256**			

SUMMARY OF SPECIES CATCH STATISTICS - 2010

LAKE=MELTON HILL

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
SKIPJACK HERRING	156	307.1	0.3	156	39	329.3	0.6	39	75.0	1.00	2
CARP	144	425.1	0.3	36	0	.	0.0	0	100.0	.	0
BLUE CATFISH	926	104.6	2.0	842	619	92.4	9.9	580	33.2	3.74	16
CHANNEL CATFISH	219	358.0	0.5	183	33	609.3	0.5	33	84.9	4.10	1
MUSKELLUNGE	601	112.8	1.3	538	26	286.4	0.4	26	95.7	.	1
RAINBOW TROUT	208	470.8	0.4	208	166	372.2	2.7	166	20.2	1.26	5
STRIPED BASS	1591	94.3	3.4	712	140	200.5	2.2	140	91.2	10.24	5
ROCK BASS	207	815.8	0.4	207	0	.	0.0	0	100.0	.	0
WARMOUTH	33	861.3	0.1	33	33	861.3	0.5	33	0.0	0.85	1
BLUEGILL	8586	32.1	18.3	7110	1908	42.8	30.5	1819	77.8	0.64	43
SMALLMOUTH BASS	2359	69.2	5.0	315	0	.	0.0	0	100.0	.	0
SPOTTED BASS	1911	105.4	4.1	0	0	.	0.0	0	100.0	.	0
LARGEMOUTH BASS	19790	15.1	42.3	18858	268	66.7	4.3	268	98.6	2.39	7
WHITE CRAPPIE	7595	38.1	16.2	7595	1894	32.9	30.3	1894	75.1	1.05	70
BLACK CRAPPIE	114	582.8	0.2	114	45	636.7	0.7	45	60.5	1.35	2
YELLOW PERCH	1664	64.7	3.6	1575	942	48.0	15.1	942	43.4	0.75	37
FRESHWATER DRUM	84	644.8	0.2	84	0	.	0.0	0	100.0	.	0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2010

LAKE=MELTON HILL

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	4169	21.3	1111	5.4	0.20	83.3	0.13	116.1	23
MUSKELLUNGE	6999	15.4	1768	9.1	0.07	46.8	0.01	153.2	47
ANY TROUT	82	140.4	19	0.1	1.71		1.43		1
STRIPED BASS	5243	19.2	1378	6.8	0.10	66.2	0.02	137.5	34
ANY SUNFISH	677	53.9	185	0.9	2.64	42.3	1.39	84.3	6
ANY BLACK BASS	1504	33.3	375	2.0	0.68	67.2	0.10	156.4	9
SMALLMOUTH BASS	621	51.0	150	0.8	0.12	115.3	0.00		5
SPOTTED BASS	145	103.3	34	0.2	0.00		0.00		1
LARGEMOUTH BASS	26368	8.8	6867	34.2	0.59	26.6	0.01	200.7	200
ANY CRAPPIE	7916	14.8	1987	10.3	0.94	63.9	0.31	46.5	65
ANY SPECIES	23374	9.4	6134	30.3	0.57	55.4	0.14	87.7	118
TOTAL	**77098**		**20008**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2010

LAKE=MELTON HILL

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.16	0.12
	CHANNEL CATFISH	0.04	0.01
ANY TROUT			
	RAINBOW TROUT	1.71	1.43
ANY SUNFISH			
	WARMOUTH	0.01	0.02
	BLUEGILL	2.63	1.37
ANY BLACK BASS			
	SMALLMOUTH BASS	0.01	0.00
	SPOTTED BASS	0.00	0.00
	LARGEMOUTH BASS	0.66	0.01
	LARGEMOUTH BASS	0.66	0.01
ANY CRAPPIE			
	WHITE CRAPPIE	0.93	0.30
	BLACK CRAPPIE	0.01	0.01

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=MELTON HILL

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.48	6
02 FEBRUARY	0		0	0.64	10
03 MARCH	0		0	0.48	22
04 APRIL	7	1.12	5	0.52	33
05 MAY	7	0.75	2	0.99	23
06 JUNE	8	1.00	4	0.24	29
08 AUGUST	0		0	0.43	15
09 SEPTEMBER	17	0.60	2	0.91	20
10 OCTOBER	0		0	0.86	18
11 NOVEMBER	0		0	0.26	15
12 DECEMBER	0		0	0.00	1

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2010

LAKE=MELTON HILL

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	17910	6050	23960	23
MUSKELLUNGE	50260	53590	103850	47
ANY TROUT	580	390	970	1
STRIPED BASS	34030	14460	48490	33
ANY SUNFISH	3060	1300	4360	6
ANY BLACK BASS	8160	7350	15520	9
SMALLMOUTH BASS	1800	3750	5550	5
SPOTTED BASS	340	340	670	1
LARGEMOUTH BASS	133520	73110	206640	199
ANY CRAPPIE	31870	13770	45640	64
ANY SPECIES	60510	15070	75580	118
TOTAL	**342040**	**189180**	**531230**	**506**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2010

LAKE=MELTON HILL

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	890	97.3
OTHERS	25	2.7

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
ANDERSON	410	46.1
KNOX	419	47.1
OTHERS IN TN	61	6.9

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	877	96.0
B) 26-100	19	2.1
C) 101-250	8	0.9
D) > 250	10	1.1

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	494	97.4
B) VACATION	13	2.6

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	487	96.1
B) 2-5	18	3.6
C) 6-10	2	0.4

TELLICO
RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2010

LAKE=TELLICO

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	5704	58.5	0.4	1464	0.1	4.3
02 FEBRUARY	11383	14.7	0.7	2999	0.2	8.6
03 MARCH	19834	15.2	1.2	3914	0.2	15.0
04 APRIL	21027	19.2	1.3	4457	0.3	15.9
05 MAY	10300	20.0	0.6	2400	0.1	7.8
06 JUNE	13100	13.6	0.8	3009	0.2	9.9
07 JULY	9768	18.8	0.6	2733	0.2	7.4
08 AUGUST	11514	14.4	0.7	3153	0.2	8.7
09 SEPTEMBER	10343	17.0	0.6	2334	0.1	7.8
10 OCTOBER	9558	22.5	0.6	2641	0.2	7.2
11 NOVEMBER	5505	19.8	0.3	1544	0.1	4.2
12 DECEMBER	4114	40.8	0.3	1135	0.1	3.1
TOTAL	**132150**			**31783**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2010

LAKE=TELLICO

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	5305	64.1	0.93	22.5	1825	77.8	0.32	44.5
02 FEBRUARY	10245	26.1	0.90	21.4	3529	32.8	0.31	29.5
03 MARCH	26181	20.7	1.32	14.0	9917	22.8	0.50	17.0
04 APRIL	31120	23.0	1.48	12.4	7780	31.8	0.37	25.0
05 MAY	7519	27.5	0.73	18.5	824	47.4	0.08	44.0
06 JUNE	6026	24.0	0.46	19.5	1310	60.6	0.10	55.8
07 JULY	4103	31.1	0.42	24.6	977	67.7	0.10	63.5
08 AUGUST	4951	24.9	0.43	20.0	1267	62.7	0.11	60.0
09 SEPTEMBER	15825	23.1	1.53	15.5	3206	40.6	0.31	36.0
10 OCTOBER	13859	29.6	1.45	18.7	3823	29.4	0.40	18.5
11 NOVEMBER	4624	37.6	0.84	31.2	1321	43.9	0.24	38.8
12 DECEMBER	905	99.2	0.22	83.7	288	113.4	0.07	100.0
TOTAL	**130663**				**36067**			

SUMMARY OF SPECIES CATCH STATISTICS - 2010

LAKE=TELLICO

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CARP	155	850.7	0.1	155	0	.	0.0	0	100.0	.	0
BLUE CATFISH	685	213.0	0.5	480	197	277.3	0.5	197	71.2	2.90	4
CHANNEL CATFISH	39	993.2	0.0	39	39	993.2	0.1	39	0.0	5.20	1
WHITE BASS	87	1122.7	0.1	0	0	.	0.0	0	100.0	.	0
STRIPED BASS	545	373.3	0.4	68	0	.	0.0	0	100.0	.	0
BLUEGILL	7544	56.5	5.8	6950	2802	54.2	7.8	2744	62.9	0.51	48
COOSA BASS	105	827.2	0.1	0	0	.	0.0	0	100.0	.	0
SMALLMOUTH BASS	5530	67.8	4.2	1513	35	518.6	0.1	0	99.4	1.30	1
SPOTTED BASS	5874	67.0	4.5	122	0	.	0.0	0	100.0	.	0
LARGEMOUTH BASS	31827	15.8	24.3	29515	847	65.1	2.3	847	97.3	2.63	13
WHITE CRAPPIE	74139	9.4	56.7	72423	30064	13.1	83.4	29573	59.4	1.14	729
BLACK CRAPPIE	2595	84.7	2.0	2371	1589	91.4	4.4	1589	38.8	1.33	40
YELLOW PERCH	120	1424.6	0.1	0	0	.	0.0	0	100.0	.	0
WALLEYE	961	98.4	0.7	961	494	129.1	1.4	494	48.6	3.35	10
FRESHWATER DRUM	120	1424.6	0.1	0	0	.	0.0	0	100.0	.	0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2010

LAKE=TELLICO

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	323	92.7	74	0.2	0.00		0.00		1
STRIPED BASS	1329	52.3	365	1.0	0.00		0.00		5
ANY SUNFISH	1314	42.8	302	1.0	1.89	15.0	0.73	32.2	6
ANY BLACK BASS	1086	51.7	261	0.8	0.71	6.9	0.12	61.5	5
SMALLMOUTH BASS	4516	24.8	1131	3.4	0.43	48.3	0.00		20
LARGEMOUTH BASS	44988	8.7	10785	34.0	0.72	23.7	0.03	138.1	205
ANY CRAPPIE	56778	8.2	13536	43.0	1.50	15.1	0.73	18.6	250
WALLEYE	4858	27.4	1309	3.7	0.23	45.8	0.11	67.4	26
ANY SPECIES	16959	13.0	4017	12.8	0.68	25.2	0.24	58.8	49
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TOTAL	**132151**		**31780**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2010

LAKE=TELLICO

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.00	0.00
	CHANNEL CATFISH	0.00	0.00
ANY SUNFISH			
	BLUEGILL	1.89	0.73
ANY BLACK BASS			
	COOSA BASS	0.00	0.00
	SMALLMOUTH BASS	0.03	0.00
	SPOTTED BASS	0.00	0.00
	LARGEMOUTH BASS	0.58	0.02
ANY CRAPPIE			
	WHITE CRAPPIE	1.45	0.69
	BLACK CRAPPIE	0.05	0.04

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=TELLICO

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	7	1.25	2	0.75	9
02 FEBRUARY	0		0	0.95	17
03 MARCH	15	0.56	3	0.64	33
04 APRIL	12	1.28	2	1.27	27
05 MAY	0		0	0.51	27
06 JUNE	3	1.00	1	0.44	32
07 JULY	0		0	0.26	24
08 AUGUST	27	0.93	4	0.59	10
09 SEPTEMBER	0		0	0.93	22
10 OCTOBER	0		0	0.85	7
11 NOVEMBER	0		0	0.96	8
12 DECEMBER	0		0	0.00	2

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2010

LAKE=TELLICO

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	1110	1110	2230	1
STRIPED BASS	7870	8350	16220	5
ANY SUNFISH	4900	1370	6270	6
ANY BLACK BASS	4740	8440	13180	5
SMALLMOUTH BASS	25240	11680	36920	20
LARGEMOUTH BASS	242470	180140	422610	205
ANY CRAPPIE	227760	100320	328090	249
WALLEYE	33790	19210	53010	26
ANY SPECIES	39050	9660	48710	49
TOTAL	**586930**	**340280**	**927240**	**566**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2010

LAKE=TELLICO

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	928	99.5
OTHERS	5	0.5

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BLOUNT	464	50.0
KNOX	93	10.0
LOUDON	167	18.0
MONROE	175	18.9
OTHERS IN TN	27	2.9
OUT-OF-STATE	2	0.2

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	907	97.4
B) 26-100	22	2.4
C) 101-250	2	0.2

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	568	100

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	566	99.6
B) 2-5	2	0.4

BOONE

RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2010

LAKE=BOONE

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	3486	31.5	0.8	640	0.1	2.4
02 FEBRUARY	3224	59.5	0.7	605	0.1	2.2
03 MARCH	13206	25.3	2.9	2263	0.5	9.0
04 APRIL	25824	25.0	5.7	4193	0.9	17.5
05 MAY	24996	10.9	5.5	4013	0.9	17.0
06 JUNE	20073	22.7	4.4	3890	0.9	13.6
08 AUGUST	14341	16.1	3.2	3541	0.8	9.7
09 SEPTEMBER	15245	20.8	3.4	2696	0.6	10.3
10 OCTOBER	15517	12.2	3.4	2795	0.6	10.5
11 NOVEMBER	9137	7.8	2.0	1797	0.4	6.2
12 DECEMBER	2247	32.4	0.5	374	0.1	1.5
TOTAL	**147296**			**26807**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2010

LAKE=BOONE

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	1185	48.8	0.34	35.2	0	.	0.00	.
02 FEBRUARY	1934	72.6	0.60	35.6	1193	124.9	0.37	95.7
03 MARCH	4754	30.0	0.36	15.5	660	66.8	0.05	54.8
04 APRIL	25308	31.5	0.98	18.6	3615	72.5	0.14	63.8
05 MAY	27496	18.7	1.10	15.1	2250	43.1	0.09	40.3
06 JUNE	25493	30.2	1.27	19.5	602	62.9	0.03	59.2
08 AUGUST	11473	27.6	0.80	22.2	1578	73.4	0.11	70.3
09 SEPTEMBER	8690	26.6	0.57	16.2	457	41.0	0.03	41.2
10 OCTOBER	9310	24.2	0.60	20.7	1241	41.0	0.08	40.4
11 NOVEMBER	4112	16.2	0.45	14.2	274	89.4	0.03	85.3
12 DECEMBER	5887	40.5	2.62	23.1	1034	65.9	0.46	54.6
TOTAL	**125642**				**12904**			

SUMMARY OF SPECIES CATCH STATISTICS - 2010

LAKE=BOONE

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CARP	521	322.0	0.4	156	0	.	0.0	0	100.0	.	0
BLUE CATFISH	50	723.6	0.0	0	50	723.6	0.4	0	0.0	3.10	1
CHANNEL CATFISH	1581	149.2	1.3	937	495	110.3	3.8	433	68.7	2.29	8
FLATHEAD CATFISH	100	848.0	0.1	100	50	512.5	0.4	50	50.0	6.40	1
RAINBOW TROUT	40	1072.3	0.0	0	0	.	0.0	0	100.0	.	0
BROWN TROUT	1242	228.7	1.0	452	418	239.0	3.2	366	66.3	1.39	8
STRIPED BASS	12273	34.4	9.8	7486	1361	33.9	10.5	1079	88.9	11.13	29
CHEROKEE BASS	14916	31.5	11.9	8196	2093	37.5	16.2	1047	86.0	6.19	41
ROCK BASS	99	1631.4	0.1	99	0	.	0.0	0	100.0	.	0
WARMOUTH	41	1461.9	0.0	0	0	.	0.0	0	100.0	.	0
BLUEGILL	37220	20.9	29.6	29870	3831	52.4	29.7	2813	89.7	0.31	64
SMALLMOUTH BASS	19289	21.7	15.4	17267	404	58.8	3.1	354	97.9	3.02	8
SPOTTED BASS	3272	93.9	2.6	3221	150	159.9	1.2	150	95.4	1.65	3
LARGEMOUTH BASS	29606	16.4	23.6	26192	990	84.7	7.7	880	96.7	2.10	9
WHITE CRAPPIE	258	782.0	0.2	258	47	314.9	0.4	47	81.8	1.10	1
BLACK CRAPPIE	3505	74.6	2.8	3235	2107	73.3	16.3	2107	39.9	1.13	26
BLACKNOSE CRAPPIE	908	85.8	0.7	908	908	85.8	7.0	908	0.0	0.94	16

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2010

LAKE=BOONE

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	1184	47.1	218	0.8	0.39	21.6	0.16	95.2	6
ANY TROUT	247	96.7	40	0.2	0.90		0.90		1
ANY TEMPERATE BASS	2964	31.2	524	2.0	0.40	31.2	0.06	39.3	12
STRIPED BASS	16310	14.5	3019	11.1	0.20	36.5	0.03	93.5	65
CHEROKEE BASS	4236	28.4	752	2.9	0.45	88.1	0.07	38.4	15
ANY SUNFISH	6968	23.3	1314	4.7	3.53	28.2	0.63	108.6	17
ANY BLACK BASS	81263	7.9	14655	55.2	0.48	19.7	0.01	81.5	383
SMALLMOUTH BASS	649	70.0	120	0.4	0.27		0.11		3
LARGEMOUTH BASS	1055	49.6	170	0.7	0.18	106.6	0.00		4
ANY CRAPPIE	4367	25.3	757	3.0	0.78	48.8	0.50	57.2	23
ANY SPECIES	28051	10.9	5235	19.0	1.09	39.6	0.04	89.2	111
TOTAL	**147294**		**26804**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2010

LAKE=BOONE

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.00	0.00
	CHANNEL CATFISH	0.35	0.14
	FLATHEAD CATFISH	0.04	0.02
ANY TROUT			
	RAINBOW TROUT	0.00	0.00
	BROWN TROUT	0.90	0.90
ANY TEMPERATE BASS			
	STRIPED BASS	0.19	0.03
	CHEROKEE BASS	0.21	0.03
ANY SUNFISH			
	WARMOUTH	0.00	0.00
	BLUEGILL	3.53	0.63
ANY BLACK BASS			
	ANY BLACK BASS	0.00	0.00
	SMALLMOUTH BASS	0.21	0.00
	SPOTTED BASS	0.04	0.00
	LARGEMOUTH BASS	0.32	0.01
ANY CRAPPIE			
	WHITE CRAPPIE	0.05	0.01
	BLACK CRAPPIE	0.57	0.34
	BLACKNOSE CRAPPIE	0.16	0.15

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=BOONE

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.23	11
02 FEBRUARY	7	0.00	1	0.27	17
03 MARCH	5	0.15	1	0.24	42
04 APRIL	32	0.24	8	0.50	40
05 MAY	16	0.41	9	0.68	67
06 JUNE	14	0.43	7	0.53	24
08 AUGUST	12	0.26	3	0.35	19
09 SEPTEMBER	19	0.24	7	0.36	38
10 OCTOBER	6	0.28	2	0.43	48
11 NOVEMBER	0		0	0.48	27
12 DECEMBER	5	4.22	2	1.81	17

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2010

LAKE=BOONE

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	1390	2280	3670	6
ANY TROUT	100	400	500	1
ANY TEMPERATE BASS	13980	13110	27090	12
STRIPED BASS	130950	131080	262030	65
CHEROKEE BASS	17320	17110	34430	15
ANY SUNFISH	10170	16260	26420	17
ANY BLACK BASS	264940	403860	668800	383
SMALLMOUTH BASS	1190	2100	2660	3
LARGEMOUTH BASS	3400	2720	6120	4
ANY CRAPPIE	7730	18290	26020	23
ANY SPECIES	60170	79040	139210	109
TOTAL	**511340**	**686250**	**1196950**	**638**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2010

LAKE=BOONE

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
NC	83	6.8
TN	990	80.6
VA	119	9.7
OTHERS	37	3.0

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
CARTER	146	14.7
SULLIVAN	471	47.3
WASHINGTON	277	27.8
OTHERS IN TN	96	9.6
OUT-OF-STATE	5	0.5

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	869	70.7
B) 26-100	299	24.3
C) 101-250	50	4.1
D) > 250	11	0.9

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	670	99.6
B) VACATION	2	0.3
C) BUSINESS	1	0.1

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	639	94.9
B) 2-5	28	4.2
C) 6-10	5	0.7
E) 16-20	1	0.1

SOUTH HOLSTON RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2010

LAKE=SOUTH HOLSTON

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	4665	32.2	0.7	706	0.1	3.7
02 FEBRUARY	2780	48.8	0.4	478	0.1	2.2
03 MARCH	14886	24.6	2.3	2320	0.4	11.7
04 APRIL	21731	16.6	3.4	2897	0.5	17.1
05 MAY	22150	12.7	3.5	3492	0.6	17.4
06 JUNE	15685	13.3	2.5	2694	0.4	12.3
08 AUGUST	10154	27.9	1.6	1931	0.3	8.0
09 SEPTEMBER	14269	17.4	2.3	2875	0.5	11.2
10 OCTOBER	10072	26.0	1.6	1666	0.3	7.9
11 NOVEMBER	6442	22.7	1.0	1332	0.2	5.1
12 DECEMBER	4186	15.7	0.7	678	0.1	3.3
TOTAL	**127020**			**21069**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2010

LAKE=SOUTH HOLSTON

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	1539	38.4	0.33	19.8	327	65.9	0.07	57.2
02 FEBRUARY	584	66.2	0.21	40.1	0	.	0.00	.
03 MARCH	17119	43.0	1.15	34.1	5061	59.0	0.34	52.6
04 APRIL	19341	22.5	0.89	14.9	3694	50.2	0.17	45.5
05 MAY	23258	21.5	1.05	17.1	3987	29.7	0.18	26.3
06 JUNE	8627	17.8	0.55	11.7	1098	54.6	0.07	50.8
08 AUGUST	5483	32.5	0.54	16.1	812	55.9	0.08	47.7
09 SEPTEMBER	11701	33.4	0.82	28.1	2426	38.7	0.17	33.2
10 OCTOBER	3928	35.3	0.39	22.9	1007	56.4	0.10	46.2
11 NOVEMBER	2706	38.9	0.42	31.0	515	38.7	0.08	30.8
12 DECEMBER	1800	49.2	0.43	45.6	209	49.6	0.05	47.2
TOTAL	**96086**				**19136**			

SUMMARY OF SPECIES CATCH STATISTICS - 2010

LAKE=SOUTH HOLSTON

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CARP	750	304.5	0.8	150	0	.	0.0	0	100.0	.	0
CHANNEL CATFISH	1552	140.7	1.6	739	258	232.5	1.3	194	83.4	3.14	4
RAINBOW TROUT	10626	36.3	11.1	8868	7391	40.0	38.6	6719	30.4	1.33	88
LAKE TROUT	4393	62.9	4.6	2778	2966	58.5	15.5	2063	32.5	3.66	46
BLUEGILL	25561	25.8	26.7	14860	591	60.7	3.1	296	97.7	0.37	10
SMALLMOUTH BASS	33035	13.8	34.4	31880	2659	25.6	13.9	2254	92.0	3.64	46
LARGEMOUTH BASS	12525	26.9	13.1	12422	333	75.4	1.7	333	97.3	5.66	5
WHITE CRAPPIE	907	231.7	0.9	800	258	223.9	1.3	258	71.6	0.98	4
BLACK CRAPPIE	3832	65.9	4.0	3449	2774	64.2	14.5	2555	27.6	1.22	38
BLACKNOSE CRAPPIE	283	478.8	0.3	283	101	481.5	0.5	101	64.3	1.08	2
WALLEYE	2346	84.7	2.4	2099	1713	68.0	8.9	1536	27.0	5.27	29

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2010

LAKE=SOUTH HOLSTON

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	468	110.1	79	0.4	0.37		0.08		2
RAINBOW TROUT	1672	44.1	283	1.3	1.27	24.6	0.94	43.8	8
ANY TROUT	10212	20.2	1715	8.0	0.45	63.0	0.30	41.1	29
LAKE TROUT	4690	25.7	806	3.7	0.42	23.6	0.30	22.1	15
ANY SUNFISH	3773	26.8	661	3.0	1.80	37.6	0.02	194.5	10
ANY BLACK BASS	76226	7.9	12472	60.0	0.42	14.4	0.01	79.3	284
SMALLMOUTH BASS	3946	24.9	659	3.1	0.44	59.9	0.09	98.7	20
ANY CRAPPIE	6003	21.9	990	4.7	1.01	46.2	0.53	51.6	26
WALLEYE	9040	20.9	1525	7.1	0.16	37.6	0.12	30.3	33
ANY SPECIES	10990	18.0	1876	8.7	0.93	46.7	0.08	92.8	33
TOTAL	**127020**		**21066**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2010

LAKE=SOUTH HOLSTON

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	CHANNEL CATFISH	0.37	0.08
ANY TROUT			
	RAINBOW TROUT	0.45	0.30
ANY SUNFISH			
	BLUEGILL	1.80	0.02
ANY BLACK BASS			
	ANY BLACK BASS	0.00	0.00
	SMALLMOUTH BASS	0.40	0.03
	LARGEMOUTH BASS	0.15	0.00
ANY CRAPPIE			
	WHITE CRAPPIE	0.18	0.05
	BLACK CRAPPIE	0.77	0.46
	BLACKNOSE CRAPPIE	0.06	0.02

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=SOUTH HOLSTON

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	21	0.33	4	0.32	16
02 FEBRUARY	0		0	0.22	13
03 MARCH	56	0.38	12	0.28	19
04 APRIL	19	0.48	9	0.71	48
05 MAY	18	0.45	12	0.54	34
06 JUNE	14	0.14	3	0.38	10
08 AUGUST	59	0.40	10	0.24	7
09 SEPTEMBER	8	0.32	8	0.31	23
10 OCTOBER	17	0.30	6	0.34	32
11 NOVEMBER	0		0	0.27	16
12 DECEMBER	0		0	0.39	22

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2010

LAKE=SOUTH HOLSTON

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	2590	1280	3870	2
RAINBOW TROUT	3370	4630	8000	8
ANY TROUT	24740	23510	48250	29
LAKE TROUT	13160	15620	28780	15
ANY SUNFISH	4220	6920	11140	10
ANY BLACK BASS	374510	339950	714460	284
SMALLMOUTH BASS	15590	17400	32990	20
ANY CRAPPIE	9580	13340	22920	26
WALLEYE	30550	32770	63310	33
ANY SPECIES	19190	24770	43960	33
TOTAL	**497500**	**480190**	**977680**	**460**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2010

LAKE=SOUTH HOLSTON

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	432	50.7
VA	413	48.5
OTHERS	7	0.8

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
CARTER	62	14.3
SULLIVAN	246	56.6
WASHINGTON	80	18.4
OTHERS IN TN	42	9.7
OUT-OF-STATE	5	1.1

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	590	68.9
B) 26-100	250	29.2
C) 101-250	7	0.8
D) > 250	9	1.1

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	459	99.8
B) VACATION	1	0.2

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	450	97.8
B) 2-5	8	1.7
C) 6-10	2	0.4

Appendix I

Field Data Collection Forms

Tennessee Wildlife Resources Agency
Reservoir Angler Count

1. Calendar Date____/____/____
   mm dd yy

2. Day Period: am or pm (Circle One)

3. Reservoir _____ (Code)

4. Area _____

5. Clerk ID _____ (TWRA Radio Numbers)

6. Survey Method: Roving or Access Point (Circle)

7. Count of Bank Anglers _____

8. Count of Boat Anglers _____

9. Comments _____

_____

_____

_____

_____

_____

_____

_____

_____

Form No. WR-0795 (Rev. 11-00)
RDA 1455

Tennessee Wildlife Resources Agency
Reservoir Angler Survey

(Questions in bold represent angler contact questions)

1. Calendar Date____/____/_____ 2. Reservoir _____ (Code) 3. Area _____
mm dd yy

4. Angler Type: Bank or Boat (Circle) **5. Hours Fished ____.____**

6. How many more hours do you plan to fish today? ____.___ (indicate completed trip with a zero)

7. Party Size ____ (No. of anglers)

8. Principal Species Fished For: (Circle One)
997=any species, 370=crappie, 360=black bass, 364=LM bass, 362=SM bass, 363=SP bass, 345=sunfish, 238=catfish, 492=walleye, 491=sauger, 493 =saugeye, 282=trout, 287=lake trout, 279=rainbow trout, 284=brown trout, 325=temperate bass, 328=striped bass, 326=white bass, 329=cherokee bass, 268=musky, 16=other

Fish Harvest Information (for party):

Species Code	No. Harvested	Bulk Weight (lbs.)	No. Released
		.	
		.	
		.	
		.	
		.	
		.	

Economic Section

9. State of Residence _____ (Code) **10. County of Residence** _____ (Code)

11. Miles from Home to Lake ____ (1 = 0-25 mi., 2 = 26-100 mi., 3 = 101-250 mi., 4 = over 250 mi.)

12. Reason for Trip ____ (1 = Fishing, 2 = Vacation, 3 = Business, 4 = Other)

13. No. of days in Trip _____

Clerk: *"I would now like to ask you some questions about the value of your fishing trip. It is important to the TWRA to estimate the value of reservoir sportfisheries. The next two questions will be used only to calculate this economic estimate."*

14. How much money will you spend on today's fishing trip for things like gas, food, bait, lodging, guides, etc.? $_____

15. How much more than $*value above* **would you be willing to pay to fish here per day, if for example, it just kept getting more and more expensive to make this trip?** $_____

Tournament Section

16. Was the angler(s) fishing in a tournament during the interview? Yes_____ No_____

Form No. WR-0794 (Rev. 12-01)
RDA 14

Final Report

Enclosure 7

Tennessee Reservoir Creel Survey

2011 Results

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August, 2012

Table of Contents

Page

Program Overview 6

Statewide

Statewide Angling Effort for All Anglers, by Lake – 2011 13
Statewide Angling Effort for Intended Species – 2011 14
Statewide Catch Statistics for All Anglers, By Lake – 2011 15
Statewide Fishing Effort and Catch Rates, by Lake, for Intended Species – 2011 16
Statewide Summary of Trip Expenditures and Consumer Surplus, by Lake - 2011 30
Statewide Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2011 31

TWRA Region I

Kentucky Reservoir

Monthly Angling Effort for All Anglers – 2011 34
Monthly Catch Statistics for All Anglers – 2011 35
Summary of Species Catch Statistics – 2011 36
Summary of Fishing Effort and Catch Rates for Intended Species – 2011 37
Summary of Relative Species Catch Rates Within Target Groups - 2011 38
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 39
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2011 40
Summary of Sociological Questions - 2011 41

Kentucky 1 - North Reservoir

Monthly Angling Effort for All Anglers – 2011 43
Monthly Catch Statistics for All Anglers – 2011 44
Summary of Species Catch Statistics – 2011 45
Summary of Fishing Effort and Catch Rates for Intended Species – 2011 46
Summary of Relative Species Catch Rates Within Target Groups - 2011 47
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 48
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2011 49
Summary of Sociological Questions – 2011 50

Kentucky 2 - South Reservoir

Monthly Angling Effort for All Anglers – 2011 52
Monthly Catch Statistics for All Anglers – 2011 53
Summary of Species Catch Statistics – 2011 54
Summary of Fishing Effort and Catch Rates for Intended Species – 2011 55
Summary of Relative Species Catch Rates Within Target Groups - 2011 56
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 57
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2011 58
Summary of Sociological Questions - 2011 59

Reelfoot Lake

Monthly Angling Effort for All Anglers – 2011 61
Monthly Catch Statistics for All Anglers – 2011 62
Summary of Species Catch Statistics – 2011 63
Summary of Fishing Effort and Catch Rates for Intended Species – 2011 64
Summary of Relative Species Catch Rates Within Target Groups - 2011 65
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 66
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2011 67
Summary of Sociological Questions - 2011 68

TWRA Region II

Tims Ford Reservoir

Monthly Angling Effort for All Anglers – 2011 71
Monthly Catch Statistics for All Anglers – 2011 72

Summary of Species Catch Statistics – 2011 …… 73
Summary of Fishing Effort and Catch Rates for Intended Species – 2011 …… 74
Summary of Relative Species Catch Rates Within Target Groups - 2011 …… 75
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 76
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2011 …… 77
Summary of Sociological Questions - 2011 …… 78

Normandy Reservoir

Monthly Angling Effort for All Anglers – 2011 …… 80
Monthly Catch Statistics for All Anglers – 2011 …… 81
Summary of Species Catch Statistics – 2011 …… 82
Summary of Fishing Effort and Catch Rates for Intended Species – 2011 …… 83
Summary of Relative Species Catch Rates Within Target Groups - 2011 …… 84
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 85
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2011 …… 86
Summary of Sociological Questions - 2011 …… 87

Percy Priest Reservoir

Monthly Angling Effort for All Anglers – 2011 …… 89
Monthly Catch Statistics for All Anglers – 2011 …… 90
Summary of Species Catch Statistics – 2011 …… 91
Summary of Fishing Effort and Catch Rates for Intended Species – 2011 …… 92
Summary of Relative Species Catch Rates Within Target Groups – 2011…… 93
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 94
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2011 …… 95
Summary of Sociological Questions - 2011 …… 96

Old Hickory Reservoir

Monthly Angling Effort for All Anglers – 2011 …… 98
Monthly Catch Statistics for All Anglers – 2011 …… 99
Summary of Species Catch Statistics – 2011 …… 100
Summary of Fishing Effort and Catch Rates for Intended Species – 2011 …… 101
Summary of Relative Species Catch Rates Within Target Groups - 2011 …… 102
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 103
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2011 …… 104
Summary of Sociological Questions - 2011 …… 105

TWRA Region III

Cordell Hull Reservoir

Monthly Angling Effort for All Anglers – 2011 …… 108
Monthly Catch Statistics for All Anglers – 2011 …… 109
Summary of Species Catch Statistics – 2011 …… 110
Summary of Fishing Effort and Catch Rates for Intended Species – 2011 …… 111
Summary of Relative Species Catch Rates Within Target Groups - 2011 …… 112
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 113
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2011 …… 114
Summary of Sociological Questions - 2011 …… 115

Chickamauga Reservoir

Monthly Angling Effort for All Anglers – 2011 …… 117
Monthly Catch Statistics for All Anglers – 2011 …… 118
Summary of Species Catch Statistics – 2011…… 119
Summary of Fishing Effort and Catch Rates for Intended Species – 2011 …… 120
Summary of Relative Species Catch Rates Within Target Groups - 2011 …… 121
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 122
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2011 …… 123
Summary of Sociological Questions - 2011 …… 124

Watts Bar Reservoir

Monthly Angling Effort for All Anglers – 2011 126
Monthly Catch Statistics for All Anglers – 2011 127
Summary of Species Catch Statistics – 2011 128
Summary of Fishing Effort and Catch Rates for Intended Species – 2011 129
Summary of Relative Species Catch Rates Within Target Groups - 2011 130
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 131
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2011 132
Summary of Sociological Questions - 2011 133

Dale Hollow Reservoir

Monthly Angling Effort for All Anglers – 2011 135
Monthly Catch Statistics for All Anglers – 2011 136
Summary of Species Catch Statistics – 2011 137
Summary of Fishing Effort and Catch Rates for Intended Species – 2011 138
Summary of Relative Species Catch Rates Within Target Groups - 2011 139
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 140
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2011 141
Summary of Sociological Questions - 2011 142

Nickajack Reservoir

Monthly Angling Effort for All Anglers – 2011 144
Monthly Catch Statistics for All Anglers – 2011 145
Summary of Species Catch Statistics – 2011 146
Summary of Fishing Effort and Catch Rates for Intended Species – 2011 147
Summary of Relative Species Catch Rates Within Target Groups - 2011 148
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 149
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2011 150
Summary of Sociological Questions - 2011 151

TWRA Region IV

Norris Reservoir

Monthly Angling Effort for All Anglers – 2011..... 154
Monthly Catch Statistics for All Anglers – 2011 155
Summary of Species Catch Statistics – 2011 156
Summary of Fishing Effort and Catch Rates for Intended Species – 2011 157
Summary of Relative Species Catch Rates Within Target Groups - 2011 158
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 159
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2011 160
Summary of Sociological Questions – 2011 161

Cherokee Reservoir

Monthly Angling Effort for All Anglers – 2011..... 163
Monthly Catch Statistics for All Anglers – 2011 164
Summary of Species Catch Statistics – 2011 165
Summary of Fishing Effort and Catch Rates for Intended Species – 2011 166
Summary of Relative Species Catch Rates Within Target Groups - 2011 167
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 168
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2011 169
Summary of Sociological Questions – 2011 170

Melton Hill Reservoir

Monthly Angling Effort for All Anglers – 2011 172
Monthly Catch Statistics for All Anglers – 2011 173
Summary of Species Catch Statistics – 2011 174
Summary of Fishing Effort and Catch Rates for Intended Species – 2011 175
Summary of Relative Species Catch Rates Within Target Groups - 2011 176
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 177
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2011 178
Summary of Sociological Questions - 2011 179

Tellico Reservoir

Monthly Angling Effort for All Anglers – 2011 181
Monthly Catch Statistics for All Anglers – 2011..... 182

Summary of Species Catch Statistics – 2011 ……..……..…….…… 183
Summary of Fishing Effort and Catch Rates for Intended Species – 2011 …….……..…… 184
Summary of Relative Species Catch Rates Within Target Groups - 2011 ……...…… 185
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 186
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2011 …… 187
Summary of Sociological Questions - 2011 …….....……..……..…… 188

Boone Reservoir

Monthly Angling Effort for All Anglers – 2011 ……..……..……..…….... 190
Monthly Catch Statistics for All Anglers – 2011 ……..……..…..……..……..... 191
Summary of Species Catch Statistics – 2011 …...……..……..…… 192
Summary of Fishing Effort and Catch Rates for Intended Species – 2011 …….……..…… 193
Summary of Relative Species Catch Rates Within Target Groups - 2011 ……...…… 194
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 195
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2011 …… 196
Summary of Sociological Questions - 2011 …….....……..……..…… 197

South Holston Reservoir

Monthly Angling Effort for All Anglers – 2011 ……..……..……..…….... 199
Monthly Catch Statistics for All Anglers – 2011 ……..……..…..……..……..... 200
Summary of Species Catch Statistics – 2011……..……..……..…… 201
Summary of Fishing Effort and Catch Rates for Intended Species – 2011 …….……..…… 202
Summary of Relative Species Catch Rates Within Target Groups - 2011 ……...…… 203
Comparison of Black Bass Catch Rates (# Fish/h) Between Tournament and Non-Tournament Anglers.. 204
Summary of Trip Expenditures and Consumer Surplus for Intended Species - 2011 …… 205
Summary of Sociological Questions - 2011 …….....……..……..…… 206

Appendix I

TWRA Reservoir Angler Count Form ……. 208
TWRA Reservoir Angler Survey Form ……. 209

Program Overview

This document provides a summary of data collected by Tennessee Wildlife Resource Agency (TWRA) personnel for the statewide reservoir angler creel survey for the 2011 calendar year. Creel surveys were used to assess the fisheries of 17 reservoirs throughout Tennessee. Although both roving and access point creel surveys are used in the creel program, all reservoirs sampled in 2011 employed roving methods. Both methods will be described since both are available to the reservoir managers. This overview contains descriptions of: 1) survey designs, 2) sampling methodologies, and 3) analytical methods. Each description is divided into roving and access point surveys. The roving survey descriptions give a more thorough account of the methodology; access point survey descriptions only list methods that differed from roving surveys. The roving and access point creel survey designs were adopted from methods described by Malvestuto et al. (1978), Malvestuto (1996) and St. John (1992). The intention of this narrative is to provide readers with a brief overview of the statistical sampling framework.

Survey Designs

Creel clerks conducted surveys on 17 reservoirs with active, on-site methods whereby anglers were interviewed either during, or immediately following, fishing trips. Fishery-dependent information collected included: angler effort, trip duration, target preferences, catch, harvest, release, demographic measures, economic values and individual status as a tournament angler. All seventeen of the reservoirs sampled in 2011 were sampled using roving creel survey methods.

(Roving Surveys)

The roving survey method used non-uniform probability, stratified random sampling to maximize sampling efficiency and minimize bias. Each reservoir was divided into a number of sections. The area of a section was originally defined by the ability of a creel clerk to complete a circuit in about 1 to 1.5 hours. Each area within a reservoir was assigned a sampling probability based on expected angler use within each of 12 monthly time blocks. The sum of the area probabilities equaled 1.0. The fishing day was defined as the period of time from sunrise to sunset. Fishing days were divided into two sampling periods in which the period from sunrise to sunset was divided into two roughly equal periods. Sampling periods also were assigned probabilities based on expected angler use within each month, and these summed to 1.0. Sampled days were divided into two strata (weekend days and weekday days) to homogenize the distributions of angler occurrence, assuming that anglers would be more abundant during weekend samples when a greater proportion of the angling population would be expected to have more time for recreation.

Random work schedules were created prior to the beginning of the 2011 survey year. Within any given month, a predetermined number of days was allocated to each day-type (weekend and weekday). Calendar days then were randomly chosen each month for each day-type. Within each sample day, secondary sampling units consisted of all the possible combinations of time periods (2) and lake sections. Probabilities for secondary sample units were derived by multiplying the time period probability by the lake section probability. Secondary sampling unit probabilities summed to 1.0 for any given lake. One secondary sampling unit was randomly chosen each day; that is to say, each sample day, creel clerks worked one ½-day period within a single, pre-defined lake section.

(Access Point Surveys)

Although the sampling methodology for the access point creel surveys differed from the roving surveys, the framework used to determine the sampling designs was basically the same. The one exception was the substitution of angler access points (boat ramps) for reservoir areas. The secondary sample units comprised all combinations of access points and time periods, and the secondary sampling unit probabilities summed to 1.0. During each sample day, creel clerks worked one ½-day period at a single access point.

Sample Methodology

(Roving Surveys)

Creel clerks collected data during the scheduled work periods described previously. A roving creel survey sample consisted of two parts: angler counts and angler interviews. Daily counts of anglers were taken within the sample period by making a circuit of the lake concurrently with interviews during a single circuit of the lake section within a ½-day sampling period (count-as-you-go method). The count-as-you-go method required that check stations be established at ¼-way points on the route to enable clerks to stay on schedule and finish the single circuit during the allotted time. Travel direction was randomly determined by coin toss. All anglers fishing from either boats or from the shore were counted.

Creel clerks interviewed as many anglers as possible during a sample period. If there were more anglers than could be interviewed, then angling parties were systematically skipped to ensure that interviews were collected throughout the entire reservoir section in the allotted time.

Upon approaching anglers, creel clerks recorded information, which did not require interrupting fishing, including date, reservoir, sample area, fishing from the bank or a boat, and the number of anglers in the fishing party. When the clerk reached the angler or angling group, he asked if they would mind spending a few moments answering questions related to the fishing trip. If anglers did not wish to be interrupted, then the creel clerk moved on. If anglers did not mind responding to the interview, then the clerk asked how long they had been fishing, how much longer they expected to fish, what their primary target species was, what state and county they were from, the distance they traveled from home, the reason for the trip, the number of days in the trip, dollar amount of trip expenditures, and the additional amount of money they would be willing to spend if daily expenditures were to increase. The anglers were also categorized as a tournament (actively fishing in a tournament at the time of the interview) or a non-tournament angler. The creel clerk counted all fish harvested and recorded the bulk weight of each harvested species. Anglers were also asked how many of each species had been released. Each respondent's answers were recorded on pre-printed survey forms (Appendix I) using TWRA survey codes. Since anglers were interviewed before completing their fishing trips with roving surveys, interview data from roving surveys were based on uncompleted fishing trips.

(Access Point Surveys)

Access point surveys differed from roving creel surveys in that anglers were not interviewed until they had finished fishing and were leaving the water at an access site. Thus, interview data from access point surveys were based on competed fishing trips. During any given ½-day sampling period, the creel clerk waited at a boat ramp and interviewed anglers as they left using the same interview format as used for roving surveys. All anglers leaving access sites were counted and as many as possible were interviewed.

Analytical Methods

Creel surveys conducted by TWRA used randomized sampling designs which, taken alone, only provide information about small portions of each reservoir fishery. To provide meaningful estimates about the populations from which the samples were drawn, the sample values must be expanded over space and time. The following narrative describes the calculations for these data expansions for any given reservoir. To assess the efficiency of the sampling effort and the variability of the estimates, relative standard errors (RSE) were calculated where possible. The RSE is the standard error (se) of an estimated value (y), expressed as a percentage of that value, or RSE = (se/y) x 100. Mathematical formulas for the following estimates were given by Malvestuto et al. (1978).

(Roving Surveys)

Fishing Effort

Estimates of fishing effort were calculated using daily angler counts and the number of hours within a sample period. Thus, for any given sampling period, fishing effort, measured in angler-hours (e), was calculated as the product of the total angler count (c) and the number of hours assigned to the sampling period (h), or e = c(h). This value estimates total angler-hours for a single lake section within a single time period, which must be expanded to an estimate of angler-hours for the entire lake for the whole day. This expansion is accomplished by dividing e by the probability for the secondary sampling unit (time period/lake section) worked that day. For example, if the time period probability was 0.5 and the lake section probability was 0.4, then the secondary sampling unit probability is 0.5 x 0.4, or 0.20, so an estimate of e=100 angler-hours for a given secondary unit would be expanded to 100/0.2 or 100 x 5 = 500 angler-hours for the whole lake for that entire day (E).

To derive estimates of total monthly fishing effort, means were taken across the daily values of E within each day-type stratum each month. These two daily mean values of fishing effort (one for weekends and one for weekdays) were weighted by the proportional number of those day types within each month (e.g. weekend weight = no. weekend-days/ total days in month), and then summed to provide a mean daily estimate of fishing effort for the month. This mean daily value then was multiplied by the total number of days in the month to give total monthly effort for the entire lake (T). Intended monthly fishing effort for a given species, or species group, was computed as the proportion of interviewed anglers fishing for that group times total monthly fishing effort. So, for example, if 25% of the anglers interviewed were fishing for black bass, the monthly-intended fishing effort for black bass would be 0.25(T).

Catch Rates (CPE, HPE and RPE)

Catch-per-unit-effort or CPE = the number of fish caught per hour, which includes fish harvested plus fish released back into the water. For roving creel surveys, CPE values are based on the number of fish caught by anglers at the time of interview (uncompleted fishing trips). For the following description, release or harvest values may be substituted for catch values to derive release per angler-hour, RPE, or harvest per angler-hour, HPE.

For each interview on a given sample day, the total number of fish caught by all anglers in the fishing party (n) was divided by the total time all anglers in the party had spent fishing (f) up to the point they were interviewed. These individual party CPE values (n/f) then were averaged to provide a daily CPE. A mean was taken across the daily CPE values within each day-type stratum, and then these weekday and weekend means were weighted and summed (as described for daily fishing effort above) to give a mean daily CPE for the month. This mean daily value is representative of the month as a whole, and becomes the monthly CPE estimate for all species combined.

Catch, Harvest and Release

Total daily catch for an entire reservoir (C) was calculated by multiplying the total daily effort (E) by the daily CPE estimate. The same process was applied to release and harvest data to derive total daily release (R) and total daily harvest (H). The daily total catch values were used to calculate a mean daily catch within each day-type stratum each month. The mean daily catch values for weekdays and weekends were weighted and summed across day types, as done for effort and CPE above, to derive a mean daily catch for the month. This mean daily value then was multiplied by the number of days in the month (as done for fishing effort) to estimate total monthly catch (M).

Estimates of catch for individual species were calculated from the percent composition of individual species recorded during interviews. For example, if a given species accounted for 40% of the total number of fish recorded during any given month, then the total monthly catch for that species would be 0.4(M).

Intended Species Catch Rates

Catch rates (CPE, RPE and HPE) for anglers targeting certain species were calculated based on interviews of anglers who intended to catch those species. For computations, interviews from anglers intending to catch various species were grouped. Catch rates for intended species were calculated for each interview by

summing the number of fish caught of that species and dividing by fishing effort for all anglers in the party. A mean CPE then was taken across interviews within intended species categories to provide the intended species catch rates.

Caution should be exercised when interpreting these data since many of the target species groups were general categories (e.g. black bass, crappie) while other valid responses were more specific (e.g. largemouth bass, smallmouth bass). Anglers were asked to be as specific as possible with regard to their target species, but often no discrimination was made between individual species within general groups. For example, calculations made for black bass only include data taken from anglers who stated black bass to be their target species group. The black bass category does not include values from anglers who specified they were fishing for largemouth bass or smallmouth bass. Calculations for these species are presented within their own categories. To obtain a true estimate of effort for black bass, all categories for black bass species, including the general category, must be summed (i.e. true total black bass effort = black bass effort + largemouth bass effort + smallmouth bass effort). The CPE estimates for intended species, however, are not additive since each estimate is based on a different value of intended fishing effort in the denominator, i.e., the fractions do not have a common denominator as they stand.

Relative Species Catch Rates

Relative catch rates are the proportional catch rates of individual species within the general intended species groups. These rates were computed by multiplying the intended catch rate for a given species group by the proportion of relevant species recorded in the creel. So, for example, if the intended catch rate for crappie is 1.8 fish/h, and black crappie represented 25% of the crappie in the creel and white crappie represented the remaining 75%, then the intended rate of 1.8 was partitioned into 1.8(.25) = 0.45 for black crappie and 1.8(.75) = 1.35 for white crappie. These relations do not hold for black bass, however, because there were usually more than one black bass intended catch rate (e.g., general black bass, largemouth bass, smallmouth bass, etc.), so there was no single rate to partition. The intended rates are not additive, as explained above, so the sum of the intended rates cannot serve as the single rate for black bass to be partitioned. So, the relative CPE values for black bass species were computed by generating a new total black bass catch rate by summing the monthly total catches of all black bass species in the numerator, and dividing by the sum of total monthly-intended fishing effort for all black bass in the denominator. This value then was partitioned by the proportion of each black bass species recorded in the creel. Although the species relative catch rates for black bass sum to this new total rate, the new rate is not a pure intended catch rate and thus is not reported elsewhere in the report. In summary, relative catch rates basically reflect the species composition of the catch within intended species groups, and thus do not represent true catch rates for those individual species, as do the intended rates.

Economic Values

Anglers were asked to give estimates of daily trip expenditures for items, which included fuel, food, bait, lodging and guides fees. They were also asked how much additional money they would be willing to spend if daily trip costs were to increase in the future. This value is anglers' willingness to pay above actual costs, and represents anglers' consumer surplus. Consumer surplus is equivalent to the amount of money that anglers would be willing to spend for the opportunity to fish a given resource, over-and-above what they actually have to spend. This amount of money is the theoretical profit associated with the fishery, as if it were privately owned. This value is necessary to compute so that the profit associated with recreational fisheries in Tennessee can be compared to other more traditional industries. Money spent for trip preparation and travel to the reservoirs (fuel, food, bait, etc.) is funneled into other businesses that provide goods and services enabling anglers to go fishing; this money, in turn, employs people in these business, and is re-cycled in the local economies, generating more goods, services and profits. Both components of economic value, trip expenditures and consumer surplus, sum to provide an estimate of total angler-oriented value.

Total monthly estimates of trip expenditures and consumer surplus were computed by multiplying the median dollar values per trip by the total number of angler-trips estimated for the month. This was first done for each intended species group and then the intended species values were summed to give the total monthly economic estimates. Median trip values for the economic responses were used because frequency distributions of expenditures per trip and consumer surplus per trip were skewed to the left, such that means were generally higher than medians, and thus the more conservative median values were used in the computations.

Tournament Status

Beginning in 2002, all anglers were asked if they were actively fishing in a tournament at the time of the interview. Each interview record was coded as yes (tournament fishing), or no (not tournament fishing). Analyses involving tournament angling were restricted to those individuals targeting black basses. Black bass Catch rates (CPE) were calculated for tournament anglers as well as non tournament angler. For comparison, percent of black bass effort and catch rates for by angler type were printed in tables at the end of each reservoir section in the report

(Access Point Surveys)

This section only describes estimates, which differ in computation from the roving survey methods. These differences include estimating fishing effort and catch rates. All other estimates were calculated the same way for the two survey techniques.

Fishing Effort

The standard difference between roving and access point surveys with respect to derivation of fishing effort is how angler-hours for the sample period are estimated. For roving surveys as described above, sample period effort is estimated as the angler count times the number of hours in the sample period. For access point surveys, however, angler-hours for the sample period are simply the sum of angler-hours recorded from completed trip interviews at the access point. This assumes that all anglers who exited the site were interviewed. If all anglers could not be interviewed upon exit, then angler-hours for the sample period were estimated as the mean completed trip time computed from interviews, times the total number of anglers who exited the site. Once sample period effort is computed, the computational techniques for access point surveys followed those outlined above for roving surveys.

In the past, Normandy and Woods Reservoirs were sampled using the access point survey method. To maximize work time efficiency during the initial year, only the major access sites were sampled. In order to expand the daily ramp effort to lake wide totals, monthly area probabilites were estimated based on boat trailer counts that were measured from all ramps on every scheduled sample day. These probablilties were used to obtain the monthly area probability for the sampled ramp which was used to exand the local effort lake wide during the monthly time blocks. This differed from the roving surveys which had fixed probabilities prior to the sample year and were used to schedule the sampling effort.

Catch Rates

Catch rates from roving surveys should be computed differently than catch rates from access point surveys. This is because catch rate data are based on uncompleted trips from roving surveys. If trip data is not complete, then it is appropriate to compute a catch rate for each interview and then take a mean of these rates within any given day to provide a daily catch rate. This is the method described above for computation of catch rates from roving surveys. This method gives each interview equal weighting regardless of how long the anglers were fishing. Equal weighting is appropriate because the final length of the trip is not known. However, if the completed trip length is known as with access point surveys, then catch rate is computed as the sum of catch across interviews (numerator) divided by the sum of effort across interviews (denominator). This provides a single total ratio estimate of CPE, which is equivalent to weighting each interview catch rate by the time spent fishing. This weighting is appropriate because the total fishing trip is represented in the data.

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Tim Poole
John Ripley
Paul Shaw
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STATEWIDE

STATEWIDE ANGLING EFFORT FOR ALL ANGLERS - 2011

LAKE	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
DALE HOLLOW	353631	6.0	15.1	56777	2.5	10.0
REELFOOT	346151	8.6	33.3	43741	4.1	9.8
CHEROKEE	111982	11.7	3.7	19413	0.6	3.2
PERCY PRIEST	457914	8.4	32.2	97370	6.9	13.0
OLD HICKORY	532271	9.8	23.6	119981	5.4	15.1
CORDELL HULL	178710	6.0	14.9	34967	2.9	5.1
MELTON HILL	60622	8.9	10.7	14873	2.5	1.7
TELLICO	112380	7.0	7.1	24539	1.5	3.2
CHICKAMAUGA	659579	7.9	19.0	102975	2.8	18.7
WATTS BAR	466016	8.1	11.9	74241	2.0	13.2
NICKAJACK	256341	29.5	24.7	44704	4.2	7.3
STATEWIDE	**3535597**	**3.5**	**17.8**	**633581**	**3.2**	**100.0**

STATEWIDE ANGLING EFFORT FOR INTENDED SPECIES GROUPS - 2011

INTENDED SPECIES	ANGLER HOURS	RELATIVE STANDARD ERROR	ANGLER TRIPS	PERCENT EFFORT
ANY CATFISH	360901	6.0	63223	10.2
MUSKELLUNGE	4790	20.8	1166	0.1
RAINBOW TROUT	1416	52.7	254	0.0
ANY TROUT	8370	21.8	1428	0.2
ANY TEMPERATE BASS	469	103.5	90	0.0
WHITE BASS	41737	12.1	8664	1.2
STRIPED BASS	104124	8.9	19925	2.9
CHEROKEE BASS	28814	15.5	6115	0.8
ANY SUNFISH	143279	8.0	22285	4.1
ANY BLACK BASS	783148	5.7	126428	22.2
SMALLMOUTH BASS	149622	7.2	24341	4.2
SPOTTED BASS	1288	53.6	282	0.0
LARGEMOUTH BASS	490268	5.7	104074	13.9
ANY CRAPPIE	691059	4.8	119520	19.5
SAUGER	56961	11.3	11361	1.6
WALLEYE	54892	9.6	10902	1.6
SAUGEYE	669	101.3	174	0.0
ANY SPECIES	613247	7.4	113274	17.3
OTHER	553	77.5	91	0.0

STATEWIDE CATCH STATISTICS FOR ALL ANGLERS, BY LAKE - 2011

LAKE	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
DALE HOLLOW	226654	10.3	0.64	22.0	66009	12.9	0.19	33.7
REELFOOT	540364	11.2	1.56	14.1	349791	11.8	1.01	15.2
CHEROKEE	137106	15.6	1.22	21.7	39798	21.1	0.36	46.1
PERCY PRIEST	723403	10.3	1.58	20.5	218056	12.1	0.48	20.9
OLD HICKORY	711034	17.1	1.34	41.6	145007	17.5	0.27	43.7
CORDELL HULL	201005	11.3	1.12	25.1	56652	13.8	0.32	34.9
MELTON HILL	55422	14.0	0.91	29.2	7297	37.9	0.12	98.7
TELLICO	160562	10.9	1.43	23.1	57370	16.3	0.51	42.1
CHICKAMAUGA	1383107	9.3	2.10	17.1	281009	13.0	0.43	33.1
WATTS BAR	763416	9.5	1.64	22.3	125653	12.4	0.27	30.3
NICKAJACK	567394	26.8	2.21	30.4	131507	33.6	0.51	61.4
STATEWIDE	**5469467**	**4.9**	**1.55**	**25.2**	**1478149**	**5.6**	**0.42**	**34.6**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2011

INTENDED SPECIES=ANY CATFISH

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
DALE HOLLOW	3539	36.5	555	1.0	0.28	20.2	0.28	20.2	21
REELFOOT	5959	29.0	739	1.7	0.43	33.5	0.34	30.0	22
CHEROKEE	5716	29.5	962	1.6	0.42	38.9	0.30	44.7	22
PERCY PRIEST	24908	13.9	5325	6.9	0.29	49.3	0.27	54.2	77
OLD HICKORY	63160	14.1	14229	17.5	0.31	36.7	0.18	47.7	78
CORDELL HULL	5169	24.3	916	1.4	0.10	40.6	0.10	40.6	11
MELTON HILL	542	56.6	136	0.2	0.18	.	0.18	.	2
TELLICO	791	61.6	179	0.2	0.00	.	0.00	.	0
CHICKAMAUGA	153140	9.9	23942	42.4	1.04	22.7	0.34	40.3	371
WATTS BAR	71031	12.4	11498	19.7	1.03	26.9	0.29	61.9	174
NICKAJACK	26946	30.7	4742	7.5	1.09	30.3	0.51	43.9	175
STATEWIDE	**360901**		**63223**						**953**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2011

INTENDED SPECIES=MUSKELLUNGE

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
MELTON HILL	4790	20.8	1166	100.0	0.04	79.3	0.00	.	0

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2011

INTENDED SPECIES=RAINBOW TROUT

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
DALE HOLLOW	790	73.3	121	55.8	1.18	.	0.33	.	11
PERCY PRIEST	132	154.8	29	9.3	0.00	.	0.00	.	0
CORDELL HULL	494	85.8	104	34.9	0.41	.	0.41	.	13
STATEWIDE	**1416**		**254**						**24**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2011

INTENDED SPECIES=ANY TROUT

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
DALE HOLLOW	7317	23.2	1216	87.4	0.37	25.4	0.37	25.4	27
OLD HICKORY	571	86.7	111	6.8	0.07	.	0.00	.	0
CORDELL HULL	482	93.9	101	5.8	0.00	.	0.00	.	0
STATEWIDE	**8370**		**1428**						**27**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2011

INTENDED SPECIES=ANY TEMPERATE BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
PERCY PRIEST	469	103.5	90	100.0	0.00	.	0.00	.	0

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2011

INTENDED SPECIES=WHITE BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
DALE HOLLOW	503	101.4	80	1.2	2.67	.	2.67	.	24
PERCY PRIEST	5777	25.1	1196	13.8	0.39	119.2	0.18	140.0	10
OLD HICKORY	14190	24.5	3266	34.0	2.43	49.4	1.62	49.5	176
CORDELL HULL	14220	16.9	2894	34.1	2.51	32.9	0.93	42.1	237
MELTON HILL	816	51.0	204	2.0	1.72	58.1	1.51	58.5	31
CHICKAMAUGA	1987	69.1	320	4.8	2.96	.	1.48	.	26
WATTS BAR	4244	43.7	704	10.2	1.83	38.8	0.46	158.8	22
STATEWIDE	**41737**		**8664**						**526**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2011

INTENDED SPECIES=STRIPED BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
CHEROKEE	21190	20.2	3822	20.4	0.28	23.8	0.16	28.6	66
PERCY PRIEST	8388	23.3	1797	8.1	0.06	291.5	0.02	241.9	2
OLD HICKORY	26207	18.4	5833	25.2	0.15	90.6	0.04	156.1	9
CORDELL HULL	364	87.0	73	0.3	0.87	13.7	0.49	24.5	3
MELTON HILL	5330	19.8	1313	5.1	0.07	101.5	0.01	137.9	2
TELLICO	1712	39.3	387	1.6	0.30	34.1	0.00	.	0
CHICKAMAUGA	14870	24.1	2369	14.3	0.43	24.9	0.02	163.7	8
WATTS BAR	26063	19.7	4331	25.0	0.54	22.7	0.02	103.2	11
STATEWIDE	**104124**		**19925**						**101**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2011

INTENDED SPECIES=CHEROKEE BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
PERCY PRIEST	25819	16.2	5440	89.6	0.18	43.2	0.14	46.9	40
OLD HICKORY	2995	53.4	675	10.4	0.21	186.8	0.00	.	0
STATEWIDE	**28814**		**6115**						**40**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2011

INTENDED SPECIES=ANY SUNFISH

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
DALE HOLLOW	25256	13.3	3927	17.6	2.96	17.2	1.80	17.0	584
REELFOOT	72307	13.2	8780	50.5	1.79	9.5	1.44	9.8	1397
PERCY PRIEST	19641	17.7	4190	13.7	2.94	19.9	1.28	24.8	351
OLD HICKORY	16060	21.9	3566	11.2	3.62	43.8	0.75	87.2	72
CORDELL HULL	5311	27.6	988	3.7	2.65	97.2	0.90	65.4	39
MELTON HILL	514	62.6	139	0.4	1.89	.	1.81	.	10
TELLICO	390	75.8	94	0.3	1.63	.	0.89	.	12
CHICKAMAUGA	2157	64.5	323	1.5	8.23	23.3	5.43	23.3	76
WATTS BAR	502	136.4	77	0.4	0.00	.	0.00	.	0
NICKAJACK	1141	48.8	201	0.8	5.00	.	0.00	.	0
STATEWIDE	**143279**		**22285**						**2541**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2011

INTENDED SPECIES=ANY BLACK BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
DALE HOLLOW	84840	10.1	13435	10.8	0.49	20.5	0.09	50.5	126
REELFOOT	34480	13.8	4496	4.4	0.58	15.6	0.00	121.2	1
CHEROKEE	2177	57.0	364	0.3	0.65	42.2	0.15	121.0	4
PERCY PRIEST	920	55.9	198	0.1	0.53	15.8	0.24	28.8	5
CORDELL HULL	75685	7.7	14501	9.7	0.74	18.9	0.16	30.9	153
TELLICO	328	89.8	76	0.0	0.75	.	0.00	.	0
CHICKAMAUGA	272540	9.7	42431	34.8	0.89	15.1	0.08	42.5	198
WATTS BAR	194334	9.9	30429	24.8	0.66	16.6	0.01	92.2	31
NICKAJACK	117844	24.1	20498	15.0	0.89	21.3	0.07	93.5	56
STATEWIDE	**783148**		**126428**						**574**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2011

INTENDED SPECIES=SMALLMOUTH BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
DALE HOLLOW	133899	7.8	20954	89.5	0.50	15.5	0.01	84.1	30
CHEROKEE	1185	53.9	213	0.8	0.78	17.2	0.40	44.9	6
PERCY PRIEST	10122	19.8	2131	6.8	0.28	67.9	0.00	.	0
OLD HICKORY	3014	49.0	727	2.0	0.30	.	0.00	.	0
MELTON HILL	203	96.1	49	0.1	0.36	.	0.00	.	0
TELLICO	1199	45.9	267	0.8	0.41	16.0	0.00	.	0
STATEWIDE	**149622**		**24341**						**36**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2011

INTENDED SPECIES=SPOTTED BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
DALE HOLLOW	123	143.8	28	9.5	5.56	.	0.00	.	0
PERCY PRIEST	1165	57.3	254	90.5	1.21	.	0.36	.	5
STATEWIDE	**1288**		**282**						**5**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2011

INTENDED SPECIES=LARGEMOUTH BASS

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
DALE HOLLOW	4399	34.9	717	0.9	0.39	14.6	0.00	.	0
CHEROKEE	60145	12.5	10337	12.3	0.70	15.1	0.11	35.9	122
PERCY PRIEST	155689	8.6	33067	31.8	0.63	15.4	0.04	36.2	126
OLD HICKORY	194093	11.8	42785	39.6	0.93	18.0	0.07	36.1	145
CORDELL HULL	3219	36.2	632	0.7	1.42	20.5	0.42	42.4	14
MELTON HILL	26871	11.4	6633	5.5	0.97	17.1	0.04	91.7	24
TELLICO	42739	9.6	9346	8.7	0.96	23.4	0.01	138.8	10
CHICKAMAUGA	986	102.0	151	0.2	2.63	.	0.00	.	0
NICKAJACK	2127	.	406	0.4	0.11	.	0.00	.	0
STATEWIDE	**490268**		**104074**						**441**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2011

INTENDED SPECIES=ANY CRAPPIE

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
DALE HOLLOW	44467	12.1	7004	6.4	1.61	30.2	0.57	33.3	395
REELFOOT	213651	10.0	27262	30.9	1.63	7.3	1.15	7.3	2929
CHEROKEE	12764	21.8	2253	1.8	1.50	40.5	0.71	33.8	138
PERCY PRIEST	116938	11.5	24961	16.9	1.72	20.9	0.61	23.9	1164
OLD HICKORY	77696	15.0	18152	11.2	1.56	32.2	0.52	29.7	344
CORDELL HULL	25735	13.3	5139	3.7	1.85	25.0	0.59	30.1	254
MELTON HILL	3791	24.8	886	0.5	0.86	37.9	0.50	43.5	28
TELLICO	50778	9.0	11059	7.3	2.26	15.4	1.33	20.1	999
CHICKAMAUGA	73257	13.9	11406	10.6	2.29	17.5	0.88	17.3	648
WATTS BAR	60682	16.2	9452	8.8	1.64	22.5	0.71	20.7	425
NICKAJACK	11300	63.6	1946	1.6	2.08	59.8	0.73	42.1	64
STATEWIDE	**691059**		**119520**						**7388**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2011

INTENDED SPECIES=SAUGER

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
OLD HICKORY	20834	19.1	4786	36.6	0.74	48.5	0.06	60.3	29
CORDELL HULL	19322	18.3	3829	33.9	0.56	33.3	0.22	45.1	87
CHICKAMAUGA	4012	36.2	623	7.0	1.11	39.8	0.44	55.1	18
WATTS BAR	12793	25.8	2123	22.5	0.76	23.3	0.28	26.1	56
STATEWIDE	**56961**		**11361**						**190**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2011

INTENDED SPECIES=WALLEYE

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
DALE HOLLOW	32506	11.7	5893	59.2	0.28	25.3	0.24	25.5	121
OLD HICKORY	16081	20.9	3664	29.3	0.20	91.5	0.16	121.4	22
CORDELL HULL	4397	28.0	911	8.0	0.23	42.2	0.23	42.2	8
TELLICO	1908	38.7	434	3.5	0.00	.	0.00	.	0
STATEWIDE	**54892**		**10902**						**151**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2011

INTENDED SPECIES=SAUGEYE

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
OLD HICKORY	669	101.3	174	100.0	0.00	.	0.00	.	0

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2011

INTENDED SPECIES=ANY SPECIES

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
DALE HOLLOW	15989	16.5	2848	2.6	0.17	143.3	0.03	204.4	7
REELFOOT	19753	17.8	2461	3.2	0.43	53.1	0.36	52.2	70
CHEROKEE	8479	25.3	1411	1.4	2.58	39.7	0.39	99.2	49
PERCY PRIEST	87950	9.6	18697	14.3	1.26	26.2	0.47	29.8	449
OLD HICKORY	96700	12.8	22014	15.8	0.91	47.2	0.20	68.3	123
CORDELL HULL	24092	13.1	4839	3.9	0.51	58.1	0.23	87.3	36
MELTON HILL	17767	12.7	4347	2.9	0.70	44.9	0.06	154.5	21
TELLICO	12537	16.3	2701	2.0	0.78	50.0	0.02	252.4	2
CHICKAMAUGA	136628	10.6	21416	22.3	4.21	21.3	1.14	47.1	904
WATTS BAR	96368	11.4	15630	15.7	2.01	28.9	0.36	60.6	209
NICKAJACK	96984	39.3	16910	15.8	3.18	22.6	1.09	35.7	566
STATEWIDE	**613247**		**113274**						**2436**

STATEWIDE FISHING EFFORT AND CATCH RATES, BY LAKE, FOR INTENDED SPECIES - 2011

INTENDED SPECIES=OTHER

LAKE	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR NUMBER CAUGHT	NUMBER HARVESTED PER HOUR	RSE FOR NUMBER HARVESTED	NUMBER FISH RECORDED
CHEROKEE	329	98.4	53	59.5	0.00	.	0.00	.	0
CORDELL HULL	224	125.4	38	40.5	0.00	.	0.00	.	0
STATEWIDE	**553**		**91**						**0**

STATEWIDE SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS, BY LAKE - 2011

LAKE	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
DALE HOLLOW	1776900	1065510	2833440	866
REELFOOT	1392050	422130	1814160	775
CHEROKEE	764370	189530	953890	445
PERCY PRIEST	1369540	771310	2140840	195
OLD HICKORY	1617590	634670	2238800	153
CORDELL HULL	575830	369700	941200	579
MELTON HILL	288600	111700	400310	364
TELLICO	497340	234920	732280	465
CHICKAMAUGA	2303930	2126680	4430590	783
WATTS BAR	1874550	1543040	3417560	554
NICKAJACK	970820	955600	1926420	384
TOTAL	**13431520**	**8424790**	**21829490**	**5563**

STATEWIDE SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS, BY INTENDED SPECIES - 2011

TARGET	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBR OF INTERVIEWS
ANY CATFISH	998190	805140	1789870	365
MUSKELLUNGE	30210	17490	47700	31
RAINBOW TROUT	7300	3780	10890	5
ANY TROUT	59440	23400	82840	16
WHITE BASS	115790	91610	207010	75
STRIPED BASS	970530	377720	1348240	186
CHEROKEE BASS	84970	86140	171110	19
ANY SUNFISH	509550	201500	710770	230
ANY BLACK BASS	3365540	2780900	6146450	1395
SMALLMOUTH BASS	985340	533030	1518370	338
SPOTTED BASS	1100	2750	3860	1
LARGEMOUTH BASS	2207220	959150	3166300	764
ANY CRAPPIE	2361390	1311310	3669580	1200
SAUGER	137530	89020	226540	123
WALLEYE	139170	113820	252460	131
ANY SPECIES	1457030	1027950	2476200	682
OTHER	1220	80	1300	2
TOTAL	**13431520**	**8424790**	**21829490**	**5563**

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MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2011

LAKE=KENTUCKY

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	8108	33.4	0.1	1960	0.0	0.6
02 FEBRUARY	8714	35.0	0.1	1686	0.0	0.6
03 MARCH	97695	30.9	0.9	16139	0.1	6.9
04 APRIL	223849	12.6	2.1	34329	0.3	15.8
05 MAY	244147	23.3	2.3	37144	0.3	17.2
06 JUNE	338809	14.4	3.1	55219	0.5	23.9
07 JULY	158270	22.3	1.5	28033	0.3	11.2
08 AUGUST	70981	10.5	0.7	11796	0.1	5.0
09 SEPTEMBER	108537	21.5	1.0	18870	0.2	7.6
10 OCTOBER	100495	13.8	0.9	16134	0.1	7.1
11 NOVEMBER	27742	30.8	0.3	4881	0.0	2.0
12 DECEMBER	31787	47.7	0.3	6643	0.1	2.2
TOTAL	**1419134**			**232834**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2011

LAKE=KENTUCKY

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	7135	59.1	0.88	46.2	3000	54.2	0.37	40.2
02 FEBRUARY	15250	47.6	1.75	30.4	7668	41.6	0.88	21.2
03 MARCH	165105	31.9	1.69	7.5	81087	33.0	0.83	11.1
04 APRIL	297719	35.8	1.33	33.1	158933	45.5	0.71	43.3
05 MAY	588394	26.7	2.41	12.7	310067	29.2	1.27	17.1
06 JUNE	880903	22.5	2.60	17.1	382854	25.7	1.13	21.0
07 JULY	178845	26.2	1.13	13.5	55395	33.0	0.35	23.5
08 AUGUST	110730	16.4	1.56	12.6	31232	30.6	0.44	28.5
09 SEPTEMBER	183428	26.4	1.69	15.1	53183	29.8	0.49	20.3
10 OCTOBER	215059	19.0	2.14	13.0	61302	21.1	0.61	15.7
11 NOVEMBER	79065	36.5	2.85	18.5	18865	49.3	0.68	37.0
12 DECEMBER	48952	54.1	1.54	23.2	16211	55.5	0.51	25.8
TOTAL	**2770585**				**1179797**			

SUMMARY OF SPECIES CATCH STATISTICS - 2011

LAKE=KENTUCKY

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
LONGNOSE GAR	788	522.5	0.0	0	0	.	0.0	0	100.0	.	0
SHORTNOSE GAR	566	1208.2	0.0	0	566	1208.2	0.0	0	0.0	2.57	6
SKIPJACK HERRING	3488	1120.7	0.1	0	0	.	0.0	0	100.0	.	0
BROWN BULLHEAD	619	2082.6	0.0	0	619	2082.6	0.1	0	0.0	2.82	5
BLUE CATFISH	286804	15.2	10.3	285078	194634	20.1	16.5	193967	32.1	2.06	2023
CHANNEL CATFISH	173326	23.8	6.3	169979	135985	28.6	11.5	134259	21.5	2.31	1020
FLATHEAD CATFISH	954	545.8	0.0	954	832	488.9	0.1	832	12.8	2.26	13
WHITE BASS	13136	135.1	0.5	68	4574	223.8	0.4	0	65.2	0.79	50
YELLOW BASS	135833	26.3	4.9	6768	103	266.8	0.0	0	99.9	0.45	4
STRIPED BASS	6780	250.7	0.2	833	3357	432.8	0.3	671	50.5	4.44	19
CHEROKEE BASS	195	1824.6	0.0	0	0	.	0.0	0	100.0	.	0
WARMOUTH	53	4034.2	0.0	0	0	.	0.0	0	100.0	.	0
BLUEGILL	383149	22.4	13.8	294220	216448	32.0	18.3	207328	43.5	0.38	1647
REDEAR SUNFISH	34736	101.8	1.3	33595	26436	122.2	2.2	25501	23.9	0.51	198
SMALLMOUTH BASS	5785	310.4	0.2	4520	2454	635.5	0.2	2181	57.6	1.80	8
SPOTTED BASS	19744	55.6	0.7	18382	264	172.9	0.0	264	98.7	1.24	6
LARGEMOUTH BASS	657866	10.4	23.7	620784	41168	30.1	3.5	40342	93.7	2.50	330
WHITE CRAPPIE	613974	11.9	22.1	609186	315267	17.1	26.6	314114	48.7	0.73	2988
BLACK CRAPPIE	423993	15.5	15.3	420396	239256	21.6	20.2	237644	43.6	0.80	1920
YELLOW PERCH	631	859.6	0.0	0	110	2631.4	0.0	0	82.6	0.70	1
SAUGER	2740	163.9	0.1	2586	1029	282.4	0.1	996	62.4	1.18	31
FRESHWATER DRUM	7388	275.2	0.3	0	0	.	0.0	0	100.0	.	0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2011

LAKE=KENTUCKY

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	437590	7.7	72114	30.8	1.00	15.0	0.73	16.3	607
STRIPED BASS	3243	82.8	511	0.2	0.58		0.33		1
ANY SUNFISH	64326	20.3	9953	4.5	4.86	13.9	3.43	13.6	69
ANY BLACK BASS	422254	8.4	68995	29.8	1.52	11.0	0.15	21.9	686
ANY CRAPPIE	441590	9.1	72655	31.1	2.07	13.9	1.03	15.6	738
SAUGER	7282	29.9	1722	0.5	0.33	56.1	0.19	38.3	23
ANY SPECIES	42849	19.9	6884	3.0	2.32	47.4	1.43	62.8	36
TOTAL	**1419134**		**232834**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2011

LAKE=KENTUCKY

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	BROWN BULLHEAD	0.00	0.00
	BLUE CATFISH	0.63	0.43
	CHANNEL CATFISH	0.37	0.30
	FLATHEAD CATFISH	0.00	0.00
ANY SUNFISH			
	WARMOUTH	0.00	0.00
	BLUEGILL	4.36	3.05
	REDEAR SUNFISH	0.50	0.38
ANY BLACK BASS			
	SMALLMOUTH BASS	0.01	0.01
	SPOTTED BASS	0.04	0.00
	LARGEMOUTH BASS	1.47	0.10
ANY CRAPPIE			
	WHITE CRAPPIE	1.22	0.59
	BLACK CRAPPIE	0.85	0.44

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=KENTUCKY

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.08	6
02 FEBRUARY	0		0	0.04	7
03 MARCH	0		0	0.90	22
04 APRIL	56	1.41	21	0.62	33
05 MAY	51	1.77	33	1.76	83
06 JUNE	51	1.75	30	1.71	64
07 JULY	53	1.60	35	1.22	66
08 AUGUST	18	1.48	13	1.72	81
09 SEPTEMBER	41	1.55	17	1.37	49
10 OCTOBER	34	1.72	24	1.74	75
11 NOVEMBER	0		0	1.50	20
12 DECEMBER	0		0	0.59	5

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2011

LAKE=KENTUCKY

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	1059860	440570	1500430	606
STRIPED BASS	7830	17020	24850	1
ANY SUNFISH	134580	45040	179610	69
ANY BLACK BASS	2930470	1336050	4266520	685
ANY CRAPPIE	1312720	761060	2073790	735
SAUGER	34010	10500	44510	23
ANY SPECIES	94530	33170	127700	36
TOTAL	**5574000**	**2643410**	**8217410**	**2155**

SUMMARY OF SOCIOLOGICAL QUESTIONS – 2011

LAKE=KENTUCKY

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	4089	94
OTHERS	262	6

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BENTON	692	16.9
CARROLL	259	6.3
DICKSON	213	5.2
HENRY	533	13.0
HOUSTON	237	5.8
HUMPHREYS	298	7.3
OTHERS IN TN	1850	45.3
OUT-OF-STATE	4	0.1

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	2446	56.3
B) 26-100	1626	37.4
C) 101-250	159	3.7
D) > 250	113	2.6

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	2144	97.2
B) VACATION	61	2.8
C) BUSINESS	1	0.0

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	1701	77.1
B) 2-5	454	20.6
C) 6-10	39	1.8
D) 11-15	4	0.2
F) >20	7	0.3

KENTUCKY #1

NORTH

RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2011

LAKE=KENTUCKY #1 NORTH

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	5405	41.2	0.0	1095	0.0	0.6
02 FEBRUARY	8714	35.0	0.1	1686	0.0	1.0
03 MARCH	97695	30.9	0.9	16139	0.1	10.9
04 APRIL	144926	15.7	1.3	21906	0.2	16.1
05 MAY	161251	32.8	1.5	25086	0.2	17.9
06 JUNE	217746	20.2	2.0	35108	0.3	24.2
07 JULY	92687	36.3	0.9	16678	0.2	10.3
08 AUGUST	31494	15.8	0.3	5124	0.0	3.5
09 SEPTEMBER	48350	17.7	0.4	8151	0.1	5.4
10 OCTOBER	52979	12.3	0.5	8425	0.1	5.9
11 NOVEMBER	12510	36.9	0.1	2358	0.0	1.4
12 DECEMBER	26286	56.9	0.2	5662	0.1	2.9
TOTAL	**900043**			**147418**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2011

LAKE=KENTUCKY #1 NORTH

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	6432	55.3	1.19	34.2	3027	50.3	0.56	26.8
02 FEBRUARY	15250	47.6	1.75	30.4	7668	41.6	0.88	21.2
03 MARCH	165105	31.9	1.69	7.5	81087	33.0	0.83	11.1
04 APRIL	157969	22.5	1.09	16.0	71014	28.0	0.49	22.9
05 MAY	464403	34.3	2.88	9.7	238651	35.7	1.48	13.3
06 JUNE	744691	26.1	3.42	16.2	328796	28.2	1.51	19.2
07 JULY	107517	39.7	1.16	15.0	29660	47.4	0.32	28.7
08 AUGUST	46926	23.2	1.49	16.7	9133	32.5	0.29	28.0
09 SEPTEMBER	85096	23.2	1.76	14.9	32395	25.5	0.67	18.1
10 OCTOBER	109137	18.9	2.06	14.2	36556	18.8	0.69	14.1
11 NOVEMBER	45161	41.4	3.61	17.7	11885	51.0	0.95	33.0
12 DECEMBER	43372	63.1	1.65	23.7	14194	64.5	0.54	26.4
TOTAL	**1991059**				**864066**			

SUMMARY OF SPECIES CATCH STATISTICS - 2011

LAKE=KENTUCKY #1 NORTH

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
SKIPJACK HERRING	3488	1120.7	0.2	0	0	.	0.0	0	100.0	.	0
BROWN BULLHEAD	619	2082.6	0.0	0	619	2082.6	0.1	0	0.0	2.82	5
BLUE CATFISH	71121	45.0	3.6	69928	63498	48.9	7.3	62799	10.7	1.67	543
CHANNEL CATFISH	60931	52.2	3.1	58890	58584	53.2	6.8	56670	3.9	2.48	398
WHITE BASS	2835	366.7	0.1	75	150	2728.2	0.0	0	94.7	0.95	2
YELLOW BASS	132575	26.4	6.7	6927	103	266.8	0.0	0	99.9	0.45	4
BLUEGILL	311116	24.4	15.6	246409	171032	34.2	19.8	164338	45.0	0.36	1265
REDEAR SUNFISH	22747	111.6	1.1	21862	18090	133.4	2.1	17204	20.5	0.54	143
SMALLMOUTH BASS	998	560.7	0.1	943	0	.	0.0	0	100.0	.	0
SPOTTED BASS	342	1152.0	0.0	257	0	.	0.0	0	100.0	.	0
LARGEMOUTH BASS	409278	14.7	20.6	367462	18536	35.5	2.1	17856	95.5	2.47	155
WHITE CRAPPIE	568077	12.5	28.5	566272	300725	17.4	34.8	300206	47.1	0.73	2879
BLACK CRAPPIE	401524	15.9	20.2	401295	232263	21.9	26.9	232011	42.2	0.80	1836
YELLOW PERCH	631	859.6	0.0	0	110	2631.4	0.0	0	82.6	0.70	1
SAUGER	358	742.3	0.0	358	358	742.3	0.0	358	0.0	1.07	3
FRESHWATER DRUM	4792	406.9	0.2	0	0	.	0.0	0	100.0	.	0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2011

LAKE=KENTUCKY #1 NORTH

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	171489	13.1	28222	19.1	0.84	16.2	0.77	16.8	206
ANY SUNFISH	40966	28.7	6397	4.6	5.78	7.7	4.19	8.6	37
ANY BLACK BASS	252628	12.2	41239	28.1	1.61	10.3	0.16	23.5	375
ANY CRAPPIE	390043	10.1	64258	43.3	2.77	9.0	1.51	9.5	644
SAUGER	2070	50.0	418	0.2	0.17	0.0	0.17	0.0	9
ANY SPECIES	42849	19.9	6884	4.8	2.32	47.4	1.43	62.8	36
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TOTAL	**900045**		**147418**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2011

LAKE=KENTUCKY #1 NORTH

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	BROWN BULLHEAD	0.00	0.00
	BLUE CATFISH	0.46	0.40
	CHANNEL CATFISH	0.38	0.37
ANY SUNFISH			
	BLUEGILL	5.31	3.79
	REDEAR SUNFISH	0.47	0.40
ANY BLACK BASS			
	SMALLMOUTH BASS	0.00	0.00
	SPOTTED BASS	0.00	0.00
	LARGEMOUTH BASS	1.45	0.07
ANY CRAPPIE			
	WHITE CRAPPIE	1.62	0.85
	BLACK CRAPPIE	1.15	0.66

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=KENTUCKY #1 NORTH

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.08	6
02 FEBRUARY	0		0	0.04	7
03 MARCH	0		0	0.90	22
04 APRIL	57	1.38	16	0.64	24
05 MAY	23	1.83	10	1.93	59
06 JUNE	45	2.18	14	1.80	31
07 JULY	43	1.80	15	0.95	38
08 AUGUST	4	1.58	2	2.15	41
09 SEPTEMBER	34	2.07	6	1.59	25
10 OCTOBER	45	1.86	13	1.53	28
11 NOVEMBER	0		0	1.56	12
12 DECEMBER	0		0	0.24	4

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS
FOR INTENDED SPECIES - 2011

LAKE=KENTUCKY #1 NORTH

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	423850	182110	605960	206
ANY SUNFISH	79240	33360	112600	37
ANY BLACK BASS	1678240	680750	2358990	374
ANY CRAPPIE	1165090	642580	1807680	641
SAUGER	7880	2850	10730	9
ANY SPECIES	94530	33170	127700	36
TOTAL	**3448830**	**1574820**	**5023660**	**1303**

SUMMARY OF SOCIOLOGICAL QUESTIONS – 2011

LAKE=KENTUCKY #1 NORTH

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	2339	92.3
OTHERS	196	7.7

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BENTON	533	22.9
CARROLL	168	7.2
DICKSON	120	5.1
HENRY	530	22.7
HOUSTON	231	9.9
HUMPHREYS	125	5.4
STEWART	155	6.6
OTHERS IN TN	470	20.2

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	1601	63.2
B) 26-100	777	30.7
C) 101-250	52	2.1
D) > 250	102	4.0

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	1315	99.9
C) BUSINESS	1	0.1

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	1120	85.1
B) 2-5	146	11.1
C) 6-10	39	3.0
D) 11-15	4	0.3
F) >20	7	0.5

KENTUCKY #2

SOUTH

RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2011

LAKE=KENTUCKY #2 SOUTH

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	2702	57.1	0.0	865	0.0	0.5
04 APRIL	78923	21.1	0.7	12424	0.1	15.2
05 MAY	82896	25.1	0.8	12058	0.1	16.0
06 JUNE	121063	17.3	1.1	20111	0.2	23.3
07 JULY	65583	16.3	0.6	11354	0.1	12.6
08 AUGUST	39487	13.9	0.4	6672	0.1	7.6
09 SEPTEMBER	60188	36.0	0.6	10719	0.1	11.6
10 OCTOBER	47516	25.7	0.4	7709	0.1	9.2
11 NOVEMBER	15232	47.3	0.1	2522	0.0	2.9
12 DECEMBER	5501	44.9	0.1	982	0.0	1.1
TOTAL	**519091**			**85416**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2011

LAKE=KENTUCKY #2 SOUTH

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	703	.	0.26	.	0	.	0.00	.
04 APRIL	140483	45.7	1.78	39.7	88394	50.0	1.12	44.3
05 MAY	123515	35.1	1.49	23.8	72120	39.3	0.87	29.3
06 JUNE	136801	18.7	1.13	7.0	55689	24.8	0.46	17.5
07 JULY	70830	19.5	1.08	10.5	26233	23.9	0.40	17.2
08 AUGUST	63574	16.4	1.61	8.6	22113	30.8	0.56	27.1
09 SEPTEMBER	98708	39.5	1.64	15.2	20464	43.2	0.34	22.4
10 OCTOBER	105486	28.4	2.22	11.7	25183	31.7	0.53	18.0
11 NOVEMBER	33967	51.7	2.23	18.7	6854	65.0	0.45	40.3
12 DECEMBER	5446	45.2	0.99	4.9	1980	47.4	0.36	13.8
TOTAL	**779513**				**319030**			

SUMMARY OF SPECIES CATCH STATISTICS - 2011

LAKE=KENTUCKY #2 SOUTH

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
LONGNOSE GAR	788	522.5	0.1	0	0	.	0.0	0	100.0	.	0
SHORTNOSE GAR	566	1208.2	0.1	0	566	1208.2	0.2	0	0.0	2.57	6
BLUE CATFISH	215684	13.8	27.6	214956	131134	18.2	41.1	131046	39.2	2.20	1480
CHANNEL CATFISH	112393	23.3	14.4	110838	77401	30.1	24.3	77401	31.1	2.20	622
FLATHEAD CATFISH	954	545.8	0.1	954	832	488.9	0.3	832	12.8	2.26	13
WHITE BASS	10303	139.6	1.3	0	4425	212.0	1.4	0	57.1	0.78	48
YELLOW BASS	3258	228.8	0.4	0	0	.	0.0	0	100.0	.	0
STRIPED BASS	6780	250.7	0.9	848	3357	432.8	1.1	707	50.5	4.44	19
CHEROKEE BASS	195	1824.6	0.0	0	0	.	0.0	0	100.0	.	0
WARMOUTH	53	4034.2	0.0	0	0	.	0.0	0	100.0	.	0
BLUEGILL	72033	55.3	9.2	50076	45417	81.5	14.2	43039	36.9	0.44	382
REDEAR SUNFISH	11989	205.4	1.5	11734	8346	257.2	2.6	8346	30.4	0.44	55
SMALLMOUTH BASS	4787	356.4	0.6	3434	2454	635.5	0.8	2147	48.7	1.80	8
SPOTTED BASS	19402	52.8	2.5	18119	264	172.9	0.1	264	98.6	1.24	6
LARGEMOUTH BASS	248589	13.0	31.8	247036	22630	46.4	7.1	22630	90.9	2.52	175
WHITE CRAPPIE	45899	41.5	5.9	43083	14542	83.6	4.6	13742	68.3	0.79	109
BLACK CRAPPIE	22468	68.7	2.9	19972	6992	139.2	2.2	6076	68.9	0.79	84
SAUGER	2383	152.0	0.3	2243	671	175.2	0.2	647	71.8	1.19	28
FRESHWATER DRUM	2596	222.2	0.3	0	0	.	0.0	0	100.0	.	0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2011

LAKE=KENTUCKY #2 SOUTH

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	266101	9.4	43893	51.3	1.23	13.6	0.74	14.6	401
STRIPED BASS	3243	82.8	511	0.6	0.58		0.33		1
ANY SUNFISH	23360	24.7	3557	4.5	3.72	22.4	2.54	21.3	32
ANY BLACK BASS	169626	10.4	27757	32.7	1.41	12.8	0.13	22.6	311
ANY CRAPPIE	51547	17.3	8396	9.9	1.34	27.4	0.38	45.6	94
SAUGER	5212	36.8	1304	1.0	0.49	35.3	0.18	36.1	14
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TOTAL	**519089**		**85418**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2011

LAKE=KENTUCKY #2 SOUTH

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	BLUE CATFISH	0.81	0.46
	CHANNEL CATFISH	0.42	0.27
	FLATHEAD CATFISH	0.00	0.00
ANY SUNFISH			
	WARMOUTH	0.00	0.00
	BLUEGILL	3.01	2.13
	REDEAR SUNFISH	0.71	0.41
ANY BLACK BASS			
	SMALLMOUTH BASS	0.02	0.01
	SPOTTED BASS	0.11	0.00
	LARGEMOUTH BASS	1.46	0.13
ANY CRAPPIE			
	WHITE CRAPPIE	0.92	0.26
	BLACK CRAPPIE	0.42	0.12

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=KENTUCKY #2 SOUTH

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
04 APRIL	53	1.51	5	0.55	9
05 MAY	63	1.75	23	1.33	24
06 JUNE	55	1.37	16	1.62	33
07 JULY	60	1.45	20	1.59	28
08 AUGUST	20	1.46	11	1.27	40
09 SEPTEMBER	46	1.27	11	1.15	24
10 OCTOBER	20	1.55	11	1.87	47
11 NOVEMBER	0		0	1.41	8
12 DECEMBER	0		0	2.00	1

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS
FOR INTENDED SPECIES - 2011

LAKE=KENTUCKY #2 SOUTH

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	636010	258460	894470	400
STRIPED BASS	7830	17020	24850	1
ANY SUNFISH	55330	11680	67010	32
ANY BLACK BASS	1252230	655300	1907530	311
ANY CRAPPIE	147630	118480	266110	94
SAUGER	26120	7650	33780	14
TOTAL	**2125150**	**1068590**	**3193750**	**852**

SUMMARY OF SOCIOLOGICAL QUESTIONS – 2011

LAKE=KENTUCKY #2 SOUTH

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	1750	96.4
OTHERS	66	3.6

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BENTON	159	9.1
CARROLL	91	5.2
DECATUR	170	9.7
DICKSON	93	5.3
HARDIN	114	6.5
HUMPHREYS	173	9.9
MADISON	114	6.5
PERRY	150	8.6
OTHERS IN TN	686	39.1
OUT-OF-STATE	4	0.2

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	845	46.6
B) 26-100	849	46.9
C) 101-250	107	5.9
D) > 250	11	0.6

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	829	93.1
B) VACATION	61	6.9

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	581	65.4
B) 2-5	308	34.6

REELFOOT
LAKE

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2011

LAKE=REELFOOT

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
02 FEBRUARY	901	58.6	0.1	141	0.0	0.3
03 MARCH	34312	31.6	3.3	4879	0.5	9.9
04 APRIL	146864	13.6	14.1	18438	1.8	42.4
05 MAY	122732	15.0	11.8	14539	1.4	35.5
06 JUNE	31992	15.7	3.1	4202	0.4	9.2
07 JULY	2857	22.8	0.3	513	0.0	0.8
08 AUGUST	1380	34.8	0.1	271	0.0	0.4
09 SEPTEMBER	1220	37.4	0.1	193	0.0	0.4
10 OCTOBER	3067	25.8	0.3	445	0.0	0.9
11 NOVEMBER	826	58.6	0.1	120	0.0	0.2
TOTAL	**346151**			**43741**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2011

LAKE=REELFOOT

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
02 FEBRUARY	54	.	0.06	.	0	.	0.00	.
03 MARCH	24705	37.2	0.72	19.0	16470	38.3	0.48	20.4
04 APRIL	202672	17.7	1.38	11.3	148333	18.8	1.01	12.9
05 MAY	216008	20.1	1.76	13.3	127641	21.4	1.04	15.1
06 JUNE	89898	21.7	2.81	14.8	54066	22.2	1.69	15.5
07 JULY	2057	25.8	0.72	11.6	1143	23.3	0.40	4.8
08 AUGUST	980	50.0	0.71	33.9	14	103.6	0.01	100.0
09 SEPTEMBER	244	41.9	0.20	17.6	110	37.6	0.09	3.7
10 OCTOBER	3466	35.9	1.13	24.3	1932	41.1	0.63	30.8
11 NOVEMBER	281	82.3	0.34	50.5	83	87.1	0.10	55.0
TOTAL	**540365**				**349792**			

SUMMARY OF SPECIES CATCH STATISTICS - 2011

LAKE=REELFOOT

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
ANY GAR	211	1624.1	0.0	0	0	.	0.0	0	100.0	.	0
BOWFIN	302	1173.2	0.1	0	0	.	0.0	0	100.0	.	0
CHANNEL CATFISH	18942	41.7	3.5	3180	13155	54.3	3.8	2631	30.6	2.48	205
YELLOW BASS	11454	59.8	2.1	513	6137	87.5	1.8	420	46.4	0.43	73
WARMOUTH	1927	374.6	0.4	1839	121	1173.6	0.0	121	93.7	0.40	2
BLUEGILL	127706	16.8	23.7	124725	96693	20.7	27.6	94702	24.3	0.44	1457
LARGEMOUTH BASS	20276	36.8	3.8	20125	217	536.4	0.1	72	98.9	2.98	3
WHITE CRAPPIE	347206	9.6	64.4	344081	231734	13.0	66.2	229847	33.3	0.68	2947
BLACK CRAPPIE	907	498.9	0.2	907	657	682.6	0.2	657	27.6	0.47	11
FRESHWATER DRUM	8992	73.4	1.7	89	217	642.0	0.1	0	97.6	2.68	3

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2011

LAKE=REELFOOT

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	5959	29.0	739	1.7	0.43	33.5	0.34	30.0	14
ANY SUNFISH	72307	13.2	8780	20.9	1.79	9.5	1.44	9.8	140
ANY BLACK BASS	34480	13.8	4496	10.0	0.58	15.6	0.00	121.2	117
ANY CRAPPIE	213651	10.0	27262	61.7	1.63	7.3	1.15	7.3	455
ANY SPECIES	19753	17.8	2461	5.7	0.43	53.1	0.36	52.2	51
TOTAL	**346150**		**43738**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2011

LAKE=REELFOOT

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	CHANNEL CATFISH	0.43	0.34
ANY SUNFISH			
	WARMOUTH	0.03	0.00
	BLUEGILL	1.76	1.44
ANY BLACK BASS			
	LARGEMOUTH BASS	0.58	0.00
ANY CRAPPIE			
	ANY CRAPPIE	0.00	0.00
	WHITE CRAPPIE	1.63	1.15
	BLACK CRAPPIE	0.00	0.00

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=REELFOOT

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
03 MARCH	0		0	0.33	13
04 APRIL	0		0	0.43	27
05 MAY	0		0	0.72	38
06 JUNE	0		0	0.98	10
07 JULY	0		0	0.67	14
08 AUGUST	0		0	0.88	7
09 SEPTEMBER	0		0	0.17	6
10 OCTOBER	0		0	0.12	2

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS
FOR INTENDED SPECIES - 2011

LAKE=REELFOOT

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	23760	6010	29770	14
ANY SUNFISH	355990	110950	466930	140
ANY BLACK BASS	66200	22480	88680	117
ANY CRAPPIE	859510	263260	1122770	453
ANY SPECIES	86590	19430	106010	51
TOTAL	**1392050**	**422130**	**1814160**	**775**

SUMMARY OF SOCIOLOGICAL QUESTIONS – 2011

LAKE=REELFOOT

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
IL	235	16.7
IN	147	10.5
KY	101	7.2
MO	162	11.5
OH	117	8.3
TN	556	39.5
OTHERS	88	6.3

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
CROCKETT	35	6.3
DYER	124	22.3
LAKE	53	9.5
OBION	286	51.4
OTHERS IN TN	58	10.4

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	339	24.1
B) 26-100	375	26.7
C) 101-250	209	14.9
D) > 250	483	34.4

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	779	100

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	443	56.9
B) 2-5	258	33.1
C) 6-10	75	9.6
E) 16-20	1	0.1
F) >20	2	0.3

TWRA

REGION II

TIMS FORD
RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2011

LAKE=TIMS FORD

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	4212	52.5	0.4	736	0.1	9.3
02 FEBRUARY	1409	47.0	0.1	272	0.0	3.1
03 MARCH	7318	11.6	0.7	1130	0.1	16.1
04 APRIL	8120	21.1	0.8	1434	0.1	17.8
05 MAY	7902	15.8	0.7	1208	0.1	17.4
06 JUNE	4534	38.8	0.4	930	0.1	10.0
07 JULY	4154	15.1	0.4	1001	0.1	9.1
08 AUGUST	4673	13.6	0.4	949	0.1	10.3
09 SEPTEMBER	3169	23.6	0.3	612	0.1	7.0
TOTAL	**45491**			**8272**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2011

LAKE=TIMS FORD

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	590	77.0	0.14	51.0	126	103.1	0.03	83.9
02 FEBRUARY	620	94.2	0.44	73.5	70	112.3	0.05	100.0
03 MARCH	3366	17.7	0.46	13.3	293	46.9	0.04	40.7
04 APRIL	14291	34.8	1.76	27.0	406	64.9	0.05	56.8
05 MAY	7112	25.0	0.90	19.2	158	112.9	0.02	94.7
06 JUNE	3763	45.8	0.83	22.6	136	118.4	0.03	100.0
07 JULY	8059	42.7	1.94	39.5	623	102.6	0.15	100.0
08 AUGUST	2150	45.6	0.46	43.0	701	57.6	0.15	54.1
09 SEPTEMBER	5419	39.3	1.71	30.6	2757	41.2	0.87	32.6
TOTAL	**45370**				**5270**			

SUMMARY OF SPECIES CATCH STATISTICS - 2011

LAKE=TIMS FORD

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CARP	43	997.0	0.1	0	0	.	0.0	0	100.0	.	0
CHANNEL CATFISH	804	246.8	1.8	632	0	.	0.0	0	100.0	.	0
FLATHEAD CATFISH	48	872.5	0.1	0	0	.	0.0	0	100.0	.	0
WHITE BASS	857	194.9	1.9	571	218	134.3	4.1	218	74.6	0.82	9
STRIPED BASS	1739	94.0	3.8	870	244	94.9	4.6	220	86.0	4.32	10
CHEROKEE BASS	3244	83.3	7.2	2093	223	94.6	4.2	156	93.1	3.73	10
ROCK BASS	64	1561.2	0.1	0	0	.	0.0	0	100.0	.	0
WARMOUTH	64	703.3	0.1	64	64	703.3	1.2	64	0.0	1.12	1
BLUEGILL	5008	66.4	11.1	1176	245	314.3	4.6	245	95.1	0.28	5
SMALLMOUTH BASS	10344	27.4	22.8	10173	325	123.6	6.2	282	96.9	3.27	15
SPOTTED BASS	1654	154.8	3.7	1500	70	457.3	1.3	47	95.8	1.06	3
LARGEMOUTH BASS	9287	31.6	20.5	8943	528	67.7	10.0	462	94.3	2.28	48
WHITE CRAPPIE	253	316.1	0.6	253	41	248.6	0.8	41	83.8	1.02	3
BLACK CRAPPIE	1646	178.4	3.6	1646	476	153.2	9.0	476	71.1	0.67	10
BLACKNOSE CRAPPIE	9934	43.4	21.9	9368	2550	44.3	48.4	2503	74.3	0.79	54
WALLEYE	288	235.4	0.6	288	288	235.4	5.5	288	0.0	2.99	9
FRESHWATER DRUM	21	864.0	0.0	0	0	.	0.0	0	100.0	.	0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2011

LAKE=TIMS FORD

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	553	61.7	125	1.2	1.40	58.5	0.00		3
WHITE BASS	481	64.8	98	1.1	0.47		0.47		2
STRIPED BASS	3036	23.8	611	6.7	0.25	87.7	0.11	103.6	15
CHEROKEE BASS	1868	33.7	363	4.1	0.91	91.5	0.12	103.3	10
ANY SUNFISH	413	68.6	83	0.9	0.90		0.46		2
ANY BLACK BASS	25586	11.9	4449	56.2	0.48	20.1	0.03	46.7	181
SMALLMOUTH BASS	1944	29.2	306	4.3	0.77	41.3	0.02	178.3	13
SPOTTED BASS	188	98.0	29	0.4	2.00		0.00		1
ANY CRAPPIE	3752	22.0	690	8.2	2.02	41.4	0.65	39.0	25
WALLEYE	2835	25.6	594	6.2	0.11	65.0	0.11	65.0	17
ANY SPECIES	4835	19.6	928	10.6	0.63	48.7	0.06	201.2	26
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TOTAL	**45491**		**8276**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2011

LAKE=TIMS FORD

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	CHANNEL CATFISH	1.40	0.00
	FLATHEAD CATFISH	0.00	0.00
ANY SUNFISH			
	WARMOUTH	0.05	0.10
	BLUEGILL	0.85	0.36
ANY BLACK BASS			
	SMALLMOUTH BASS	0.37	0.01
	SPOTTED BASS	0.05	0.00
	LARGEMOUTH BASS	0.32	0.02
ANY CRAPPIE			
	WHITE CRAPPIE	0.05	0.01
	BLACK CRAPPIE	0.30	0.10
	BLACKNOSE CRAPPIE	1.68	0.54

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=TIMS FORD

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	88	0.22	26	0.17	8
02 FEBRUARY	0		0	0.44	10
03 MARCH	0		0	0.55	48
04 APRIL	4	0.89	1	0.67	36
05 MAY	22	0.45	4	0.68	30
06 JUNE	14	0.89	3	0.37	9
07 JULY	30	0.13	1	0.93	5
08 AUGUST	0		0	0.08	5
09 SEPTEMBER	0		0	0.47	9

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2011

LAKE=TIMS FORD

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
CHEROKEE BASS	660	660	1330	1
ANY BLACK BASS	62950	27500	90450	13
SMALLMOUTH BASS	1390	950	2330	2
ANY CRAPPIE	590	70	650	1
WALLEYE	3660	2320	5980	2
ANY SPECIES	1780	350	2130	2
TOTAL	**71030**	**31850**	**102870**	**21**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2011

LAKE=TIMS FORD

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
OR	5	14.3
TN	29	82.9
OTHERS	1	2.9

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
COFFEE	10	28.6
FRANKLIN	8	22.9
GRUNDY	2	5.7
MOORE	3	8.6
RUTHERFORD	5	14.3
OTHERS IN TN	1	2.9
OUT-OF-STATE	6	17.1

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	31	88.6
B) 26-100	4	11.4

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	20	95.2
D) OTHER	1	4.8

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	21	100

NORMANDY
RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2011

LAKE=NORMANDY

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	1869	43.5	0.6	421	0.1	3.5
02 FEBRUARY	1705	35.9	0.6	356	0.1	3.2
03 MARCH	5173	23.9	1.7	883	0.3	9.7
04 APRIL	5517	32.4	1.8	792	0.3	10.3
05 MAY	8649	31.8	2.8	1377	0.5	16.2
06 JUNE	6610	46.5	2.2	1301	0.4	12.4
07 JULY	3912	32.7	1.3	774	0.3	7.3
08 AUGUST	9328	23.5	3.1	1762	0.6	17.4
09 SEPTEMBER	10701	28.7	3.5	2157	0.7	20.0
TOTAL	**53464**			**9823**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2011

LAKE=NORMANDY

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	579	48.7	0.31	19.9	56	83.8	0.03	72.6
02 FEBRUARY	614	57.5	0.36	42.4	85	70.5	0.05	57.5
03 MARCH	3104	30.3	0.60	18.0	310	63.0	0.06	53.1
04 APRIL	5186	53.6	0.94	40.5	1379	86.4	0.25	75.7
05 MAY	9946	40.6	1.15	24.1	1470	61.1	0.17	50.7
06 JUNE	5090	49.2	0.77	14.5	1586	61.9	0.24	37.7
07 JULY	9389	45.4	2.40	29.9	2543	66.8	0.65	55.3
08 AUGUST	7556	30.5	0.81	19.0	3358	36.2	0.36	27.0
09 SEPTEMBER	8561	32.5	0.80	14.8	4922	30.1	0.46	8.7
TOTAL	**50025**				**15709**			

SUMMARY OF SPECIES CATCH STATISTICS - 2011

LAKE=NORMANDY

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CARP	68	810.6	0.1	23	0	.	0.0	0	100.0	.	0
BLUE CATFISH	186	371.2	0.4	112	107	414.1	0.7	107	42.5	3.65	3
CHANNEL CATFISH	1150	116.6	2.3	697	525	159.8	3.3	338	54.3	2.35	14
FLATHEAD CATFISH	37	997.3	0.1	0	37	997.3	0.2	0	0.0	2.64	1
STRIPED BASS	218	488.9	0.4	218	0	.	0.0	0	100.0	.	0
ROCK BASS	129	628.1	0.3	32	0	.	0.0	0	100.0	.	0
WARMOUTH	173	487.9	0.3	43	79	578.1	0.5	0	54.3	0.57	2
BLUEGILL	5511	44.0	11.0	4402	1678	67.5	10.7	1171	69.6	0.28	43
SMALLMOUTH BASS	618	192.5	1.2	511	0	.	0.0	0	100.0	.	0
SPOTTED BASS	6850	29.9	13.7	6377	1094	53.0	7.0	870	84.0	1.44	44
LARGEMOUTH BASS	6207	29.1	12.4	5908	480	74.4	3.1	434	92.3	2.80	21
WHITE CRAPPIE	1402	91.2	2.8	1402	762	107.7	4.8	762	45.6	0.96	31
BLACK CRAPPIE	2106	78.3	4.2	2106	947	95.5	6.0	947	55.0	0.87	28
BLACKNOSE CRAPPIE	23726	17.4	47.5	23592	8725	22.9	55.5	8629	63.2	0.87	272
WALLEYE	1283	105.9	2.6	1283	1119	109.7	7.1	1119	12.8	2.40	30

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2011

LAKE=NORMANDY

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	2423	29.3	443	4.5	0.22	66.9	0.11	86.0	14
ANY SUNFISH	1599	37.8	311	3.0	3.83	80.0	0.98	65.8	10
ANY BLACK BASS	20889	13.0	3904	39.1	0.43	24.8	0.04	77.4	210
SMALLMOUTH BASS	34	138.6	8	0.1	0.00		0.00		1
SPOTTED BASS	493	59.4	92	0.9	1.10		0.07		4
LARGEMOUTH BASS	47	138.2	9	0.1	0.00		0.00		1
ANY CRAPPIE	18774	15.0	3357	35.1	1.29	25.3	0.47	32.1	153
WALLEYE	3275	25.3	622	6.1	0.40	55.1	0.36	60.1	32
ANY SPECIES	5931	20.4	1076	11.1	0.49	57.5	0.01	205.6	41
TOTAL	**53465**		**9822**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2011

LAKE=NORMANDY

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	BLUE CATFISH	0.03	0.03
	CHANNEL CATFISH	0.19	0.08
	FLATHEAD CATFISH	0.00	0.00
ANY SUNFISH			
	ANY SUNFISH	0.00	0.00
	WARMOUTH	0.04	0.00
	BLUEGILL	3.79	0.98
ANY BLACK BASS			
	SMALLMOUTH BASS	0.02	0.00
	SPOTTED BASS	0.30	0.04
	LARGEMOUTH BASS	0.28	0.02
	LARGEMOUTH BASS	0.28	0.02
ANY CRAPPIE			
	WHITE CRAPPIE	0.07	0.03
	BLACK CRAPPIE	0.10	0.04
	BLACKNOSE CRAPPIE	1.12	0.39

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=NORMANDY

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.26	24
02 FEBRUARY	2	0.67	2	0.31	23
03 MARCH	43	0.46	16	0.43	26
04 APRIL	0		0	0.39	8
05 MAY	0		0	0.58	19
06 JUNE	37	0.54	9	0.61	11
07 JULY	3	1.65	1	0.50	25
08 AUGUST	20	0.44	7	0.34	23
09 SEPTEMBER	0		0	0.29	22

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2011

LAKE=NORMANDY

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	1340	720	2060	1
ANY BLACK BASS	66740	35850	102590	25
SPOTTED BASS	440	150	580	1
ANY CRAPPIE	32290	20330	52620	13
WALLEYE	6260	3000	9260	2
ANY SPECIES	10110	2210	12320	4
TOTAL	**117180**	**62260**	**179430**	**46**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2011

LAKE=NORMANDY

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	71	93.4
OTHERS	5	6.6

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BEDFORD	19	25.0
COFFEE	35	46.1
FRANKLIN	11	14.5
OTHERS IN TN	6	7.9
OUT-OF-STATE	5	6.6

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	74	97.4
B) 26-100	2	2.6

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	45	97.8
C) BUSINESS	1	2.2

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	46	100

J. PERCY PRIEST RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2011

LAKE=PERCY PRIEST

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	18810	50.8	1.3	4158	0.3	4.1
02 FEBRUARY	11008	19.2	0.8	2526	0.2	2.4
03 MARCH	33089	43.7	2.3	7586	0.5	7.2
04 APRIL	72233	29.4	5.1	13900	1.0	15.8
05 MAY	46218	34.3	3.3	10078	0.7	10.1
06 JUNE	60928	8.8	4.3	13042	0.9	13.3
07 JULY	56637	15.7	4.0	11387	0.8	12.4
08 AUGUST	49689	29.4	3.5	10884	0.8	10.9
09 SEPTEMBER	38169	12.1	2.7	8449	0.6	8.3
10 OCTOBER	40442	19.4	2.8	8697	0.6	8.8
11 NOVEMBER	14682	45.1	1.0	2977	0.2	3.2
12 DECEMBER	16009	18.3	1.1	3686	0.3	3.5
TOTAL	**457914**			**97370**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2011

LAKE=PERCY PRIEST

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	46273	72.9	2.46	46.6	22384	51.2	1.19	5.7
02 FEBRUARY	7265	32.8	0.66	26.0	1321	22.2	0.12	11.3
03 MARCH	24486	49.8	0.74	21.9	9927	48.1	0.30	18.4
04 APRIL	96792	34.6	1.34	17.4	39006	39.4	0.54	25.1
05 MAY	75798	36.1	1.64	10.6	24033	40.1	0.52	19.8
06 JUNE	93220	14.3	1.53	11.2	18278	22.1	0.30	20.4
07 JULY	86655	19.7	1.53	11.8	22088	20.4	0.39	12.9
08 AUGUST	109813	33.9	2.21	16.3	29813	37.4	0.60	22.2
09 SEPTEMBER	79773	15.4	2.09	9.4	20993	22.1	0.55	18.4
10 OCTOBER	49744	25.8	1.23	16.8	12133	20.4	0.30	6.0
11 NOVEMBER	18206	52.4	1.24	24.4	5432	70.2	0.37	48.6
12 DECEMBER	35380	24.8	2.21	16.4	12647	26.9	0.79	19.3
TOTAL	**723405**				**218055**			

SUMMARY OF SPECIES CATCH STATISTICS - 2011

LAKE=PERCY PRIEST

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
LONGNOSE GAR	237	1162.1	0.0	0	0	.	0.0	0	100.0	.	0
CARP	656	740.1	0.1	82	309	1063.5	0.1	103	52.9	2.90	3
BLACK BULLHEAD	173	1609.0	0.0	0	173	1609.0	0.1	0	0.0	7.50	1
BLUE CATFISH	219	1892.5	0.0	73	0	.	0.0	0	100.0	.	0
CHANNEL CATFISH	14540	52.1	2.0	9557	11344	56.9	5.2	7899	22.0	1.67	135
FLATHEAD CATFISH	2445	230.9	0.3	963	1147	238.4	0.5	860	53.1	10.86	16
ANY TEMPERATE BASS	281	810.0	0.0	0	0	.	0.0	0	100.0	.	0
WHITE BASS	21311	48.2	2.9	5612	5746	65.8	2.6	2128	73.0	0.76	80
YELLOW BASS	57374	23.7	7.9	23219	19309	34.7	8.9	10309	66.3	0.36	234
STRIPED BASS	786	548.8	0.1	524	220	751.2	0.1	147	72.0	3.60	3
CHEROKEE BASS	10717	68.5	1.5	5954	6557	79.1	3.0	5152	38.8	4.25	69
ROCK BASS	119	2316.2	0.0	0	0	.	0.0	0	100.0	.	0
GREEN SUNFISH	15168	57.8	2.1	12702	10578	59.9	4.9	8107	30.3	0.14	137
WARMOUTH	1668	351.8	0.2	751	896	361.8	0.4	358	46.3	0.34	10
ORANGE SPOTTED SUNFISH	70	1767.4	0.0	70	70	1767.4	0.0	70	0.0	0.15	1
BLUEGILL	106946	14.0	14.8	78461	39412	20.5	18.1	31703	63.1	0.25	490
LONGEAR SUNFISH	3670	218.5	0.5	2811	2604	179.5	1.2	2436	29.0	0.13	31
REDEAR SUNFISH	70	1767.4	0.0	70	70	1767.4	0.0	70	0.0	0.16	1
SMALLMOUTH BASS	31111	33.1	4.3	5513	926	134.4	0.4	154	97.0	2.17	12
SPOTTED BASS	26612	36.9	3.7	2682	6043	52.9	2.8	625	77.3	0.92	85
LARGEMOUTH BASS	169132	11.3	23.4	140547	12995	23.8	6.0	11350	92.3	1.91	158
WHITE CRAPPIE	173557	14.4	24.0	161682	67157	16.9	30.8	63231	61.3	0.77	818
BLACK CRAPPIE	83675	20.0	11.6	81149	31890	24.1	14.6	30631	61.9	0.80	455
FRESHWATER DRUM	2741	247.2	0.4	806	605	407.0	0.3	605	77.9	1.33	6

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2011

LAKE=PERCY PRIEST

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	24908	13.9	5325	5.4	0.29	49.3	0.27	54.2	86
RAINBOW TROUT	132	154.8	29	0.0	0.00		0.00		1
ANY TEMPERATE BASS	469	103.5	90	0.1	0.00		0.00		1
WHITE BASS	5777	25.1	1196	1.3	0.39	119.2	0.18	140.0	20
STRIPED BASS	8388	23.3	1797	1.8	0.06	291.5	0.02	241.9	18
CHEROKEE BASS	25819	16.2	5440	5.6	0.18	43.2	0.14	46.9	83
ANY SUNFISH	19641	17.7	4190	4.3	2.94	19.9	1.28	24.8	70
ANY BLACK BASS	920	55.9	198	0.2	0.53	15.8	0.24	28.8	5
SMALLMOUTH BASS	10122	19.8	2131	2.2	0.28	67.9	0.00		39
SPOTTED BASS	1165	57.3	254	0.3	1.21		0.36		3
LARGEMOUTH BASS	155689	8.6	33067	34.0	0.63	15.4	0.04	36.2	589
ANY CRAPPIE	116938	11.5	24961	25.5	1.72	20.9	0.61	23.9	438
ANY SPECIES	87950	9.6	18697	19.2	1.26	26.2	0.47	29.8	277
TOTAL	**457918**		**97375**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2011

LAKE=PERCY PRIEST

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	BLACK BULLHEAD	0.00	0.00
	BLUE CATFISH	0.00	0.00
	CHANNEL CATFISH	0.26	0.24
	FLATHEAD CATFISH	0.03	0.03
ANY TEMPERATE BASS			
	STRIPED BASS	0.00	0.00
	CHEROKEE BASS	0.00	0.00
ANY SUNFISH			
	GREEN SUNFISH	0.39	0.24
	WARMOUTH	0.02	0.01
	ORANGE SPOTTED SUNFISH	0.00	0.00
	BLUEGILL	2.43	0.95
	LONGEAR SUNFISH	0.09	0.07
	REDEAR SUNFISH	0.00	0.00
ANY BLACK BASS			
	SMALLMOUTH BASS	0.03	0.00
	SPOTTED BASS	0.02	0.00
	LARGEMOUTH BASS	0.84	0.07
	LARGEMOUTH BASS	0.84	0.07
ANY CRAPPIE			
	WHITE CRAPPIE	1.15	0.41
	BLACK CRAPPIE	0.57	0.20

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=PERCY PRIEST

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	64	0.08	9	0.03	15
02 FEBRUARY	21	0.29	2	0.22	15
03 MARCH	20	1.18	3	0.61	33
04 APRIL	76	0.67	31	0.64	25
05 MAY	7	0.46	5	0.58	48
06 JUNE	0		0	0.78	81
07 JULY	39	0.98	26	0.51	56
08 AUGUST	6	1.56	6	0.58	72
09 SEPTEMBER	10	0.41	8	0.84	57
10 OCTOBER	61	0.39	28	0.58	45
11 NOVEMBER	44	0.46	13	0.37	31
12 DECEMBER	2	0.80	1	0.55	25

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2011

LAKE=PERCY PRIEST

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	79150	22750	101900	20
RAINBOW TROUT	580	580	1160	1
WHITE BASS	21190	14410	35600	7
STRIPED BASS	14060	19910	33970	4
CHEROKEE BASS	84970	86140	171110	19
ANY SUNFISH	28450	4640	33080	7
SMALLMOUTH BASS	22170	22340	44510	14
LARGEMOUTH BASS	651270	418580	1069850	73
ANY CRAPPIE	300090	157020	457110	39
ANY SPECIES	167610	24940	192550	11
TOTAL	**1369540**	**771310**	**2140840**	**195**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2011

LAKE=PERCY PRIEST

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	341	96.3
OTHERS	13	3.7

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
DAVIDSON	54	15.7
RUTHERFORD	186	54.2
WILLIAMSON	24	7.0
WILSON	24	7.0
OTHERS IN TN	49	14.3
OUT-OF-STATE	6	1.7

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	269	76.9
B) 26-100	70	20.0
C) 101-250	6	1.7
D) > 250	5	1.4

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	194	99.5
B) VACATION	1	0.5

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	191	97.9
B) 2-5	3	1.5
C) 6-10	1	0.5

OLD HICKORY RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2011

LAKE=OLD HICKORY

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	15856	44.2	0.7	4324	0.2	3.0
02 FEBRUARY	20932	33.4	0.9	4073	0.2	3.9
03 MARCH	29847	32.1	1.3	6421	0.3	5.6
04 APRIL	65434	30.9	2.9	15769	0.7	12.3
05 MAY	69426	32.8	3.1	16159	0.7	13.0
06 JUNE	56520	23.1	2.5	12446	0.6	10.6
07 JULY	58013	22.2	2.6	12611	0.6	10.9
08 AUGUST	51119	24.2	2.3	10565	0.5	9.6
09 SEPTEMBER	72847	38.3	3.2	14116	0.6	13.7
10 OCTOBER	60886	28.6	2.7	15817	0.7	11.4
11 NOVEMBER	18948	35.0	0.8	4781	0.2	3.6
12 DECEMBER	12443	23.3	0.6	2899	0.1	2.3
TOTAL	**532271**			**119981**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2011

LAKE=OLD HICKORY

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	20613	46.0	1.30	11.5	14270	46.9	0.90	14.4
02 FEBRUARY	12978	59.3	0.62	46.2	6698	55.3	0.32	42.0
03 MARCH	31936	50.5	1.07	36.9	8357	48.8	0.28	34.3
04 APRIL	59545	47.5	0.91	34.4	16359	50.9	0.25	38.4
05 MAY	103445	46.0	1.49	30.8	17357	52.8	0.25	38.7
06 JUNE	153734	60.9	2.72	54.9	13000	49.7	0.23	43.0
07 JULY	102103	23.2	1.76	6.9	22625	69.5	0.39	63.7
08 AUGUST	66455	29.0	1.30	15.5	14313	37.0	0.28	27.6
09 SEPTEMBER	81589	42.3	1.12	16.8	17483	52.8	0.24	33.6
10 OCTOBER	51753	39.9	0.85	26.9	6697	37.9	0.11	23.6
11 NOVEMBER	17053	48.2	0.90	31.1	4737	56.7	0.25	42.0
12 DECEMBER	9830	41.7	0.79	33.9	3111	43.1	0.25	36.0
TOTAL	**711034**				**145007**			

SUMMARY OF SPECIES CATCH STATISTICS - 2011

LAKE=OLD HICKORY

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
SHORTNOSE GAR	169	973.7	0.0	0	169	973.7	0.1	0	0.0	2.70	1
CARP	231	1424.0	0.0	0	0	.	0.0	0	100.0	.	0
ANY BUFFALO	152	1855.9	0.0	0	0	.	0.0	0	100.0	.	0
SMALLMOUTH BUFFALO	152	853.1	0.0	0	152	853.1	0.1	0	0.0	7.45	2
YELLOW BULLHEAD	108	1221.1	0.0	108	108	1221.1	0.1	108	0.0	0.45	1
BLUE CATFISH	4571	431.4	0.6	4174	2327	223.7	1.6	2327	49.1	6.89	13
CHANNEL CATFISH	21131	58.4	3.0	14678	11335	55.6	7.8	8897	46.4	1.86	93
FLATHEAD CATFISH	1618	358.5	0.2	1040	1052	262.3	0.7	1052	35.0	10.01	9
RAINBOW TROUT	198	872.0	0.0	99	169	973.7	0.1	0	14.6	0.45	1
WHITE BASS	49387	39.5	7.0	29408	19799	33.6	13.7	15417	59.9	1.08	253
YELLOW BASS	12060	127.3	1.7	5647	2309	162.7	1.6	1668	80.9	0.38	35
STRIPED BASS	7748	195.9	1.1	6796	2201	196.4	1.5	1693	71.6	6.36	13
CHEROKEE BASS	1053	1102.7	0.1	602	0	.	0.0	0	100.0	.	0
GREEN SUNFISH	3203	354.8	0.5	2697	2017	330.0	1.4	1650	37.0	0.17	11
WARMOUTH	2857	255.7	0.4	1270	1931	268.3	1.3	1404	32.4	0.36	11
BLUEGILL	140265	30.8	19.8	63487	21166	31.3	14.6	10583	84.9	0.28	172
LONGEAR SUNFISH	5709	330.7	0.8	3499	747	438.6	0.5	598	86.9	0.11	5
REDEAR SUNFISH	1288	700.7	0.2	552	250	670.6	0.2	125	80.6	0.18	2
SMALLMOUTH BASS	7006	211.9	1.0	1668	619	267.5	0.4	310	91.2	2.26	4
SPOTTED BASS	2837	276.1	0.4	0	336	517.9	0.2	0	88.2	0.85	3
LARGEMOUTH BASS	269336	20.7	38.0	252105	26287	28.6	18.1	23296	90.2	1.91	167
WHITE CRAPPIE	100362	27.6	14.2	90716	35316	26.7	24.4	32226	64.8	0.89	320
BLACK CRAPPIE	28520	81.8	4.0	27622	7952	93.9	5.5	7392	72.1	0.88	71
BLACKNOSE CRAPPIE	152	1065.1	0.0	152	152	1065.1	0.1	152	0.0	0.90	1
SAUGER	30929	73.4	4.4	20346	3328	73.7	2.3	1787	89.2	1.85	54
WALLEYE	6489	165.0	0.9	4906	4762	128.0	3.3	4555	26.6	3.04	23
FRESHWATER DRUM	11449	155.1	1.6	1527	350	298.9	0.2	88	96.9	1.74	4

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2011

LAKE=OLD HICKORY

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	63160	14.1	14229	11.9	0.31	36.7	0.18	47.7	110
ANY TROUT	571	86.7	111	0.1	0.07		0.00		1
WHITE BASS	14190	24.5	3266	2.7	2.43	49.4	1.62	49.5	35
STRIPED BASS	26207	18.4	5833	4.9	0.15	90.6	0.04	156.1	44
CHEROKEE BASS	2995	53.4	675	0.6	0.21	186.8	0.00		4
ANY SUNFISH	16060	21.9	3566	3.0	3.62	43.8	0.75	87.2	27
SMALLMOUTH BASS	3014	49.0	727	0.6	0.30		0.00		6
LARGEMOUTH BASS	194093	11.8	42785	36.5	0.93	18.0	0.07	36.1	404
ANY CRAPPIE	77696	15.0	18152	14.6	1.56	32.2	0.52	29.7	158
SAUGER	20834	19.1	4786	3.9	0.74	48.5	0.06	60.3	46
WALLEYE	16081	20.9	3664	3.0	0.20	91.5	0.16	121.4	33
SAUGEYE	669	101.3	174	0.1	0.00		0.00		1
ANY SPECIES	96700	12.8	22014	18.2	0.91	47.2	0.20	68.3	175
TOTAL	**532270**		**119982**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2011

LAKE=OLD HICKORY

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	YELLOW BULLHEAD	0.00	0.00
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.06	0.03
	CHANNEL CATFISH	0.23	0.13
	FLATHEAD CATFISH	0.02	0.02
ANY TROUT			
	RAINBOW TROUT	0.07	0.00
ANY SUNFISH			
	GREEN SUNFISH	0.14	0.09
	WARMOUTH	0.06	0.07
	BLUEGILL	3.21	0.55
	LONGEAR SUNFISH	0.18	0.03
	REDEAR SUNFISH	0.03	0.01
ANY BLACK BASS			
	SMALLMOUTH BASS	0.01	0.00
	SPOTTED BASS	0.00	0.00
	LARGEMOUTH BASS	1.28	0.12
ANY CRAPPIE			
	WHITE CRAPPIE	1.19	0.42
	BLACK CRAPPIE	0.36	0.10
	BLACKNOSE CRAPPIE	0.00	0.00

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=OLD HICKORY

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.07	10
02 FEBRUARY	0		0	0.00	3
03 MARCH	29	0.18	5	0.38	23
04 APRIL	0		0	0.50	26
05 MAY	2	1.20	1	0.86	44
06 JUNE	23	1.93	7	1.03	31
07 JULY	13	1.79	5	1.07	48
08 AUGUST	41	1.23	25	1.28	52
09 SEPTEMBER	42	0.85	19	0.87	58
10 OCTOBER	6	2.17	1	0.68	27
11 NOVEMBER	27	0.77	2	0.46	15
12 DECEMBER	0		0	0.64	8

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2011

LAKE=OLD HICKORY

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	120250	15370	122150	21
WHITE BASS	41620	45470	87090	7
STRIPED BASS	148790	62730	211520	12
ANY SUNFISH	18910	5820	24730	7
SMALLMOUTH BASS	290	730	1030	1
LARGEMOUTH BASS	676910	189410	866320	50
ANY CRAPPIE	156100	160220	316320	22
SAUGER	52920	13520	66440	6
WALLEYE	15870	22740	38610	6
ANY SPECIES	385930	118660	504590	21
TOTAL	**1617590**	**634670**	**2238800**	**153**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2011

LAKE=OLD HICKORY

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	298	94.3
OTHERS	18	5.7

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
DAVIDSON	26	8.8
MACON	18	6.1
SMITH	31	10.5
SUMNER	54	18.3
WILSON	109	36.9
OTHERS IN TN	54	18.3
OUT-OF-STATE	3	1.0

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	217	70.2
B) 26-100	79	25.6
C) 101-250	4	1.3
D) > 250	9	2.9

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	153	100

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	149	97.4
B) 2-5	3	2.0
C) 6-10	1	0.7

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REGION III

CORDELL HULL RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2011

LAKE=CORDELL HULL

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	4640	61.6	0.4	1129	0.1	2.6
02 FEBRUARY	8679	23.9	0.7	1564	0.1	4.9
03 MARCH	11967	35.3	1.0	2773	0.2	6.7
04 APRIL	27661	18.9	2.3	5905	0.5	15.5
05 MAY	25962	17.0	2.2	4764	0.4	14.5
06 JUNE	26845	16.5	2.2	5373	0.4	15.0
07 JULY	20502	7.8	1.7	3728	0.3	11.5
08 AUGUST	16856	7.8	1.4	3525	0.3	9.4
09 SEPTEMBER	12073	9.0	1.0	2050	0.2	6.8
10 OCTOBER	10940	23.1	0.9	1887	0.2	6.1
11 NOVEMBER	8224	32.3	0.7	1459	0.1	4.6
12 DECEMBER	4361	26.8	0.4	810	0.1	2.4
TOTAL	**178710**			**34967**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2011

LAKE=CORDELL HULL

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	325	108.5	0.07	77.5	139	139.4	0.03	100.0
02 FEBRUARY	7290	44.0	0.84	36.1	2690	67.8	0.31	61.2
03 MARCH	19865	44.4	1.66	25.4	4906	47.6	0.41	30.0
04 APRIL	43981	30.6	1.59	23.8	15767	34.8	0.57	28.6
05 MAY	36866	31.5	1.42	26.1	8827	31.2	0.34	25.8
06 JUNE	30335	26.6	1.13	20.5	6443	43.2	0.24	39.3
07 JULY	18452	14.6	0.90	12.3	4305	23.5	0.21	21.7
08 AUGUST	7248	12.2	0.43	9.3	3034	31.4	0.18	29.6
09 SEPTEMBER	13039	11.2	1.08	6.7	3380	31.5	0.28	29.6
10 OCTOBER	9737	37.6	0.89	29.0	2735	42.7	0.25	35.5
11 NOVEMBER	9375	42.0	1.14	25.5	2549	52.3	0.31	39.0
12 DECEMBER	4492	46.5	1.03	36.7	1875	47.1	0.43	37.7
TOTAL	**201005**				**56650**			

SUMMARY OF SPECIES CATCH STATISTICS - 2011

LAKE=CORDELL HULL

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
SKIPJACK HERRING	295	776.6	0.1	295	0	.	0.0	0	100.0	.	0
YELLOW BULLHEAD	76	764.4	0.0	0	76	764.4	0.1	0	0.0	1.10	1
CHANNEL CATFISH	1643	140.2	0.8	1232	1494	128.1	2.6	1245	9.1	1.92	18
RAINBOW TROUT	817	454.2	0.4	817	817	454.2	1.4	817	0.0	1.06	13
WHITE BASS	49209	20.7	24.5	37618	15024	24.1	26.5	12038	69.5	0.77	327
YELLOW BASS	2107	177.3	1.1	0	314	334.1	0.6	0	85.1	0.40	5
STRIPED BASS	341	533.9	0.2	227	237	579.8	0.4	178	30.5	4.95	4
BLUEGILL	13225	52.8	6.6	8383	2883	63.4	5.1	2189	78.2	0.30	49
SMALLMOUTH BASS	958	349.0	0.5	610	151	539.5	0.3	151	84.2	1.50	2
SPOTTED BASS	360	221.5	0.2	360	194	230.9	0.3	194	46.1	1.29	8
LARGEMOUTH BASS	68438	13.5	34.1	55011	14636	19.2	25.8	11329	78.6	1.35	208
WHITE CRAPPIE	31550	32.2	15.7	30542	8314	42.3	14.7	7805	73.6	0.86	147
BLACK CRAPPIE	9749	46.7	4.9	9492	4352	59.4	7.7	4222	55.4	0.89	67
BLACKNOSE CRAPPIE	6613	61.5	3.3	6354	3015	78.4	5.3	2848	54.4	0.87	54
SAUGER	8255	46.5	4.1	7772	3376	87.2	6.0	3092	59.1	1.79	95
WALLEYE	2009	188.1	1.0	804	1660	141.0	2.9	781	17.4	2.95	17
FRESHWATER DRUM	324	201.1	0.2	324	108	317.1	0.2	108	66.7	1.40	1

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2011

LAKE=CORDELL HULL

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	5169	24.3	916	2.9	0.10	40.6	0.10	40.6	15
RAINBOW TROUT	494	85.8	104	0.3	0.41		0.41		2
ANY TROUT	482	93.9	101	0.3	0.00		0.00		1
WHITE BASS	14220	16.9	2894	8.0	2.51	32.9	0.93	42.1	46
STRIPED BASS	364	87.0	73	0.2	0.87	13.7	0.49	24.5	3
ANY SUNFISH	5311	27.6	988	3.0	2.65	97.2	0.90	65.4	11
ANY BLACK BASS	75685	7.7	14501	42.3	0.74	18.9	0.16	30.9	224
LARGEMOUTH BASS	3219	36.2	632	1.8	1.42	20.5	0.42	42.4	9
ANY CRAPPIE	25735	13.3	5139	14.4	1.85	25.0	0.59	30.1	106
SAUGER	19322	18.3	3829	10.8	0.56	33.3	0.22	45.1	91
WALLEYE	4397	28.0	911	2.5	0.23	42.2	0.23	42.2	13
ANY SPECIES	24092	13.1	4839	13.5	0.51	58.1	0.23	87.3	59
OTHER	224	125.4	38	0.1	0.00		0.00		1
TOTAL	**178714**		**34965**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2011

LAKE=CORDELL HULL

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	YELLOW BULLHEAD	0.00	0.00
	CHANNEL CATFISH	0.10	0.10
ANY TROUT			
	RAINBOW TROUT	0.00	0.00
ANY SUNFISH			
	BLUEGILL	2.65	0.90
ANY BLACK BASS			
	SMALLMOUTH BASS	0.01	0.00
	SPOTTED BASS	0.00	0.00
	LARGEMOUTH BASS	0.70	0.14
ANY CRAPPIE			
	ANY CRAPPIE	0.00	0.00
	WHITE CRAPPIE	1.22	0.31
	BLACK CRAPPIE	0.38	0.17
	BLACKNOSE CRAPPIE	0.25	0.11

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=CORDELL HULL

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.00	1
02 FEBRUARY	75	0.03	5	0.11	2
03 MARCH	57	0.83	4	0.65	5
04 APRIL	0		0	0.75	31
05 MAY	18	1.49	9	0.74	42
06 JUNE	0		0	1.02	41
07 JULY	12	1.08	4	0.66	33
08 AUGUST	0		0	0.58	13
09 SEPTEMBER	2	3.00	1	0.42	15
10 OCTOBER	43	0.58	6	0.46	14
11 NOVEMBER	0		0	0.75	7

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2011

LAKE=CORDELL HULL

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	11860	8090	19960	15
RAINBOW TROUT	4490	1850	6350	2
ANY TROUT	1510	1010	2520	1
WHITE BASS	27530	19180	46330	46
STRIPED BASS	1840	2000	3840	3
ANY SUNFISH	17090	11190	28000	11
ANY BLACK BASS	341130	194290	535420	224
LARGEMOUTH BASS	13790	7230	20960	9
ANY CRAPPIE	62470	49950	111020	105
SAUGER	46320	36550	82870	90
WALLEYE	11750	8850	20070	13
ANY SPECIES	35940	29430	63670	59
OTHER	110	80	190	1
TOTAL	**575830**	**369700**	**941200**	**579**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2011

LAKE=CORDELL HULL

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	1176	98.5
OTHERS	18	1.5

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
CLAY	143	12.2
JACKSON	270	23.0
MACON	66	5.6
PUTNAM	330	28.1
SMITH	153	13.0
OTHERS IN TN	210	17.9
OUT-OF-STATE	1	0.1

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	1013	84.9
B) 26-100	158	13.2
C) 101-250	8	0.7
D) > 250	14	1.2

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	577	94.3
B) VACATION	35	5.7

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	540	88.4
B) 2-5	39	6.4
C) 6-10	29	4.7
D) 11-15	1	0.2
E) 16-20	1	0.2
F) >20	1	0.2

CHICKAMAUGA RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2011

LAKE=CHICKAMAUGA

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	10732	24.8	0.3	1713	0.0	1.6
02 FEBRUARY	49939	26.2	1.4	7643	0.2	7.6
03 MARCH	39335	32.7	1.1	5802	0.2	6.0
04 APRIL	124879	28.0	3.6	18136	0.5	18.9
05 MAY	79979	11.5	2.3	12233	0.4	12.1
06 JUNE	97177	4.9	2.8	14902	0.4	14.7
07 JULY	71599	23.9	2.1	11244	0.3	10.9
08 AUGUST	62231	23.3	1.8	10130	0.3	9.4
09 SEPTEMBER	26961	30.5	0.8	4314	0.1	4.1
10 OCTOBER	46176	23.0	1.3	7892	0.2	7.0
11 NOVEMBER	22824	44.8	0.7	4013	0.1	3.5
12 DECEMBER	27747	54.6	0.8	4953	0.1	4.2
TOTAL	**659579**			**102975**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2011

LAKE=CHICKAMAUGA

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	12986	30.4	1.21	17.1	2468	47.0	0.23	39.2
02 FEBRUARY	122351	33.8	2.45	20.6	31462	36.6	0.63	24.8
03 MARCH	48775	47.9	1.24	33.3	17307	66.9	0.44	55.0
04 APRIL	233524	30.3	1.87	11.3	46205	38.1	0.37	24.7
05 MAY	203946	16.3	2.55	11.4	59184	20.4	0.74	16.7
06 JUNE	241971	19.9	2.49	19.3	37899	39.9	0.39	39.9
07 JULY	141766	28.4	1.98	15.0	17900	55.4	0.25	48.3
08 AUGUST	111393	27.2	1.79	13.6	16802	29.6	0.27	17.7
09 SEPTEMBER	43677	35.6	1.62	17.6	7010	43.6	0.26	29.3
10 OCTOBER	97431	27.4	2.11	14.5	15700	41.2	0.34	33.1
11 NOVEMBER	55919	49.8	2.45	19.8	11868	59.9	0.52	36.6
12 DECEMBER	69368	60.2	2.50	22.5	17203	74.2	0.62	43.9
TOTAL	**1383107**				**281008**			

SUMMARY OF SPECIES CATCH STATISTICS - 2011

LAKE=CHICKAMAUGA

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
PADDLEFISH	123	3485.7	0.0	0	0	.	0.0	0	100.0	.	0
GOLDEN SHINER	730	1667.1	0.1	0	0	.	0.0	0	100.0	.	0
BLUE CATFISH	158383	17.9	11.5	144177	48706	22.7	17.3	46662	69.2	3.80	407
CHANNEL CATFISH	17565	114.5	1.3	15613	3942	152.9	1.4	3179	77.6	3.20	29
FLATHEAD CATFISH	7833	176.0	0.6	6201	1988	227.2	0.7	1988	74.6	5.19	13
WHITE BASS	40623	67.4	2.9	16327	6770	82.0	2.4	3515	83.3	1.25	52
YELLOW BASS	143234	21.3	10.4	47621	2725	80.9	1.0	1603	98.1	0.46	17
STRIPED BASS	9422	221.3	0.7	8775	497	261.0	0.2	398	94.7	15.96	10
WARMOUTH	4804	220.5	0.3	2631	2008	244.4	0.7	1057	58.2	0.38	17
BLUEGILL	375262	12.7	27.1	241833	87321	16.8	31.1	64069	76.7	0.25	853
REDEAR SUNFISH	53140	63.7	3.8	52048	23295	66.1	8.3	22713	56.2	0.39	200
SMALLMOUTH BASS	11446	154.6	0.8	9912	256	481.1	0.1	256	97.8	3.63	3
SPOTTED BASS	34147	57.4	2.5	27938	109	461.5	0.0	109	99.7	2.30	1
LARGEMOUTH BASS	262997	14.4	19.0	244002	22466	30.7	8.0	21585	91.5	2.93	197
WHITE CRAPPIE	57561	36.6	4.2	53450	22593	40.6	8.0	21503	60.7	0.83	226
BLACK CRAPPIE	156174	25.5	11.3	139399	54552	27.7	19.4	47191	65.1	0.88	510
BLACKNOSE CRAPPIE	1091	413.0	0.1	1091	598	480.5	0.2	598	45.2	0.65	6
YELLOW PERCH	1228	711.4	0.1	0	682	716.3	0.2	0	44.5	0.39	8
SAUGER	5996	126.4	0.4	4554	2504	135.0	0.9	2125	58.2	1.53	31
FRESHWATER DRUM	40718	53.8	2.9	4095	0	.	0.0	0	100.0	.	0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2011

LAKE=CHICKAMAUGA

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	153140	9.9	23942	23.2	1.04	22.7	0.34	40.3	176
WHITE BASS	1987	69.1	320	0.3	2.96		1.48		3
STRIPED BASS	14870	24.1	2369	2.3	0.43	24.9	0.02	163.7	20
ANY SUNFISH	2157	64.5	323	0.3	8.23	23.3	5.43	23.3	4
ANY BLACK BASS	272540	9.7	42431	41.3	0.89	15.1	0.08	42.5	417
LARGEMOUTH BASS	986	102.0	151	0.1	2.63		0.00		2
ANY CRAPPIE	73257	13.9	11406	11.1	2.29	17.5	0.88	17.3	99
SAUGER	4012	36.2	623	0.6	1.11	39.8	0.44	55.1	10
ANY SPECIES	136628	10.6	21416	20.7	4.21	21.3	1.14	47.1	180
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TOTAL	**659577**		**102981**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2011

LAKE=CHICKAMAUGA

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.90	0.31
	CHANNEL CATFISH	0.10	0.02
	FLATHEAD CATFISH	0.04	0.01
ANY SUNFISH			
	WARMOUTH	0.07	0.07
	BLUEGILL	6.71	3.96
	REDEAR SUNFISH	1.44	1.40
ANY BLACK BASS			
	SMALLMOUTH BASS	0.04	0.00
	SPOTTED BASS	0.10	0.00
	LARGEMOUTH BASS	0.89	0.08
ANY CRAPPIE			
	WHITE CRAPPIE	0.63	0.27
	BLACK CRAPPIE	1.65	0.60
	BLACKNOSE CRAPPIE	0.01	0.01

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=CHICKAMAUGA

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.47	21
02 FEBRUARY	0		0	0.81	46
03 MARCH	0		0	0.46	32
04 APRIL	55	1.24	23	0.76	38
05 MAY	0		0	0.85	50
07 JULY	0		0	0.54	25
08 AUGUST	10	1.14	4	1.01	33
09 SEPTEMBER	0		0	0.61	31
10 OCTOBER	32	0.92	6	0.68	36
11 NOVEMBER	0		0	0.77	19
12 DECEMBER	0		0	1.00	17

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS
FOR INTENDED SPECIES - 2011

LAKE=CHICKAMAUGA

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	414290	404750	819040	147
WHITE BASS	11080	5170	16250	3
STRIPED BASS	193370	102060	295420	18
ANY SUNFISH	13680	6840	20530	3
ANY BLACK BASS	1154520	1033930	2188450	372
LARGEMOUTH BASS	11020	2900	13910	1
ANY CRAPPIE	239000	232200	471190	93
SAUGER	12740	9810	22550	9
ANY SPECIES	254230	329020	583250	137
TOTAL	**2303930**	**2126680**	**4430590**	**783**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2011

LAKE=CHICKAMAUGA

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
GA	92	5.2
TN	1622	92.2
OTHERS	46	2.6

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BRADLEY	217	13.5
HAMILTON	468	29.0
McMINN	127	7.9
MEIGS	203	12.6
RHEA	212	13.1
OTHERS IN TN	384	23.8
OUT-OF-STATE	2	0.1

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	1235	70.8
B) 26-100	442	25.3
C) 101-250	43	2.5
D) > 250	25	1.4

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	837	99.6
B) VACATION	2	0.2
D) OTHER	1	0.1

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	803	95.8
B) 2-5	18	2.1
C) 6-10	17	2.0

WATTS BAR RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2011

LAKE=WATTS BAR

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	16222	25.8	0.4	2808	0.1	3.5
02 FEBRUARY	27189	23.9	0.7	4513	0.1	5.8
03 MARCH	52019	20.0	1.3	7864	0.2	11.2
04 APRIL	87703	33.8	2.2	12806	0.3	18.8
05 MAY	41411	8.1	1.1	6094	0.2	8.9
06 JUNE	46192	2.4	1.2	7088	0.2	9.9
07 JULY	43910	36.6	1.1	6867	0.2	9.4
08 AUGUST	43831	14.7	1.1	7719	0.2	9.4
09 SEPTEMBER	23239	14.6	0.6	3703	0.1	5.0
10 OCTOBER	42114	10.0	1.1	7014	0.2	9.0
11 NOVEMBER	22432	14.2	0.6	4401	0.1	4.8
12 DECEMBER	19754	22.0	0.5	3364	0.1	4.2
TOTAL	**466016**			**74241**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2011

LAKE=WATTS BAR

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	22711	39.2	1.40	28.7	5191	50.4	0.32	41.6
02 FEBRUARY	42143	26.0	1.55	10.0	13051	31.5	0.48	19.9
03 MARCH	89473	28.6	1.72	20.1	23929	35.6	0.46	28.7
04 APRIL	107875	36.4	1.23	12.8	16664	52.9	0.19	38.9
05 MAY	74126	18.1	1.79	16.2	11595	38.0	0.28	36.8
06 JUNE	64669	38.3	1.40	38.2	4157	4.6	0.09	4.0
07 JULY	78599	39.6	1.79	14.1	10538	45.2	0.24	24.9
08 AUGUST	58734	20.6	1.34	14.3	7451	41.6	0.17	39.1
09 SEPTEMBER	37415	27.9	1.61	23.5	7901	22.3	0.34	16.7
10 OCTOBER	85070	18.4	2.02	15.3	10950	17.8	0.26	14.8
11 NOVEMBER	53612	21.6	2.39	16.2	8300	28.9	0.37	24.8
12 DECEMBER	48990	45.8	2.48	39.1	5926	29.4	0.30	19.0
TOTAL	**763417**				**125653**			

SUMMARY OF SPECIES CATCH STATISTICS - 2011

LAKE=WATTS BAR

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
SKIPJACK HERRING	6430	222.8	0.8	2031	0	.	0.0	0	100.0	.	0
BLUE CATFISH	104354	21.1	13.7	86020	24131	21.5	19.2	21833	76.9	3.12	231
CHANNEL CATFISH	3994	212.5	0.5	3524	1674	133.7	1.3	1674	58.1	3.23	17
FLATHEAD CATFISH	6547	181.1	0.9	4323	1641	184.9	1.3	1289	74.9	4.53	14
WHITE BASS	90516	27.7	11.9	37198	11714	36.6	9.3	6709	87.1	1.23	110
YELLOW BASS	56407	35.3	7.4	17314	110	274.3	0.1	110	99.8	0.50	2
STRIPED BASS	25493	72.0	3.3	22637	1307	134.4	1.0	1062	94.9	16.63	16
CHEROKEE BASS	45	2102.2	0.0	0	0	.	0.0	0	100.0	.	0
BLUEGILL	74814	33.9	9.8	31100	3445	68.2	2.7	1925	95.4	0.25	22
REDEAR SUNFISH	71	1077.5	0.0	71	71	1077.5	0.1	71	0.0	0.60	1
SMALLMOUTH BASS	26324	51.3	3.5	23266	0	.	0.0	0	100.0	.	0
SPOTTED BASS	19552	77.2	2.6	17244	0	.	0.0	0	100.0	.	0
LARGEMOUTH BASS	117193	17.9	15.4	109325	4644	37.8	3.7	3891	96.0	2.66	37
WHITE CRAPPIE	129713	23.7	17.0	111912	56605	21.0	45.0	49560	56.4	0.84	462
BLACK CRAPPIE	36095	57.2	4.7	26932	11380	47.3	9.1	8368	68.5	0.87	101
BLACKNOSE CRAPPIE	1087	661.7	0.1	1087	382	683.9	0.3	382	64.9	1.13	3
YELLOW PERCH	5230	185.9	0.7	814	2766	151.1	2.2	532	47.1	0.48	26
SAUGER	21245	77.0	2.8	15974	5782	84.7	4.6	4130	72.8	1.46	78
FRESHWATER DRUM	37669	43.4	4.9	8712	0	.	0.0	0	100.0	.	0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2011

LAKE=WATTS BAR

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	71031	12.4	11498	15.2	1.03	26.9	0.29	61.9	89
WHITE BASS	4244	43.7	704	0.9	1.83	38.8	0.46	158.8	5
STRIPED BASS	26063	19.7	4331	5.6	0.54	22.7	0.02	103.2	30
ANY SUNFISH	502	136.4	77	0.1	0.00		0.00		1
ANY BLACK BASS	194334	9.9	30429	41.7	0.66	16.6	0.01	92.2	290
ANY CRAPPIE	60682	16.2	9452	13.0	1.64	22.5	0.71	20.7	79
SAUGER	12793	25.8	2123	2.7	0.76	23.3	0.28	26.1	20
ANY SPECIES	96368	11.4	15630	20.7	2.01	28.9	0.36	60.6	126
TOTAL	**466017**		**74244**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2011

LAKE=WATTS BAR

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	BLUE CATFISH	0.94	0.26
	CHANNEL CATFISH	0.04	0.02
	FLATHEAD CATFISH	0.05	0.02
ANY SUNFISH			
	BLUEGILL	0.00	0.00
	REDEAR SUNFISH	0.00	0.00
ANY BLACK BASS			
	SMALLMOUTH BASS	0.12	0.00
	SPOTTED BASS	0.09	0.00
	LARGEMOUTH BASS	0.56	0.02
ANY CRAPPIE			
	WHITE CRAPPIE	1.31	0.60
	BLACK CRAPPIE	0.32	0.10
	BLACKNOSE CRAPPIE	0.01	0.00

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=WATTS BAR

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.35	11
02 FEBRUARY	0		0	0.49	10
04 APRIL	14	0.34	3	0.51	44
05 MAY	20	1.01	4	0.76	44
06 JUNE	0		0	0.75	34
07 JULY	0		0	0.86	17
08 AUGUST	0		0	0.45	30
09 SEPTEMBER	28	0.79	4	0.51	20
10 OCTOBER	0		0	0.89	19
11 NOVEMBER	0		0	1.19	9

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2011

LAKE=WATTS BAR

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	202430	197380	399810	75
WHITE BASS	9650	5520	15160	5
STRIPED BASS	390070	152820	542880	28
ANY SUNFISH	4850	3850	8710	1
ANY BLACK BASS	755680	709910	1465590	257
ANY CRAPPIE	273160	228980	502140	72
SAUGER	25550	29140	54680	18
ANY SPECIES	213160	215440	428590	98
TOTAL	**1874550**	**1543040**	**3417560**	**554**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2011

LAKE=WATTS BAR

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	1236	98.4
OTHERS	20	1.6

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
ANDERSON	65	5.3
BLOUNT	129	10.5
CUMBERLAND	65	5.3
KNOX	145	11.8
LOUDON	175	14.2
McMINN	106	8.6
MEIGS	98	7.9
RHEA	103	8.3
ROANE	178	14.4
OTHERS IN TN	168	13.6
OUT-OF-STATE	2	0.2

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	868	70.4
B) 26-100	341	27.7
C) 101-250	17	1.4
D) > 250	7	0.6

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	598	100

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	588	98.3
B) 2-5	7	1.2
C) 6-10	3	0.5

DALE HOLLOW RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2011

LAKE=DALE HOLLOW

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	10417	18.9	0.4	1665	0.1	2.9
02 FEBRUARY	33837	6.9	1.5	4997	0.2	9.6
03 MARCH	53537	24.2	2.3	8514	0.4	15.1
04 APRIL	70282	15.7	3.0	10333	0.4	19.9
05 MAY	59089	7.2	2.5	8905	0.4	16.7
06 JUNE	22763	16.6	1.0	3992	0.2	6.4
07 JULY	12566	21.4	0.5	2741	0.1	3.6
08 AUGUST	11107	15.9	0.5	2479	0.1	3.1
09 SEPTEMBER	19053	27.9	0.8	3125	0.1	5.4
10 OCTOBER	23309	20.7	1.0	3945	0.2	6.6
11 NOVEMBER	15774	6.5	0.7	2291	0.1	4.5
12 DECEMBER	21897	35.1	0.9	3790	0.2	6.2
TOTAL	**353631**			**56777**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2011

LAKE=DALE HOLLOW

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	2188	36.4	0.21	30.5	0	.	0.00	100.0
02 FEBRUARY	10151	56.0	0.30	56.2	1692	60.4	0.05	60.3
03 MARCH	29981	34.9	0.56	24.6	4818	56.8	0.09	47.8
04 APRIL	49197	30.6	0.70	26.0	9839	30.7	0.14	25.8
05 MAY	55544	14.3	0.94	12.3	23045	24.4	0.39	23.3
06 JUNE	10926	22.2	0.48	14.4	3414	32.1	0.15	27.6
07 JULY	1885	23.7	0.15	9.6	1257	23.9	0.10	10.5
08 AUGUST	2999	49.9	0.27	46.2	666	39.6	0.06	34.0
09 SEPTEMBER	23054	32.0	1.21	15.1	7431	41.9	0.39	30.2
10 OCTOBER	21910	27.8	0.94	18.2	9790	32.6	0.42	24.7
11 NOVEMBER	9622	22.8	0.61	21.7	2524	49.4	0.16	50.2
12 DECEMBER	9197	36.4	0.42	9.0	1533	64.0	0.07	52.7
TOTAL	**226654**				**66009**			

SUMMARY OF SPECIES CATCH STATISTICS - 2011

LAKE=DALE HOLLOW

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CHANNEL CATFISH	1721	176.7	0.8	1033	1676	173.8	2.5	1035	2.6	4.77	34
RAINBOW TROUT	2567	160.8	1.1	2271	1898	148.9	2.9	1717	26.1	2.28	42
WHITE BASS	2961	114.5	1.3	1061	2552	105.9	3.9	1056	13.8	1.75	58
GREEN SUNFISH	299	1047.5	0.1	0	0	.	0.0	0	100.0	.	0
BLUEGILL	27004	28.0	11.9	24355	13754	31.3	20.8	12646	49.1	0.46	298
REDEAR SUNFISH	19646	32.8	8.7	19510	14532	34.1	22.0	14441	26.0	0.57	318
SMALLMOUTH BASS	88953	12.1	39.3	80546	3723	29.6	5.6	3258	95.8	1.82	72
SPOTTED BASS	9959	39.1	4.4	8482	3041	55.6	4.6	2442	69.5	1.38	66
LARGEMOUTH BASS	18213	28.8	8.0	14897	2134	52.7	3.2	1989	88.3	2.57	44
WHITE CRAPPIE	6703	169.6	3.0	6703	919	261.0	1.4	919	86.3	0.78	21
BLACK CRAPPIE	16416	43.4	7.2	15380	6781	44.7	10.3	6349	58.7	0.98	157
BLACKNOSE CRAPPIE	21792	32.2	9.6	21539	9407	35.1	14.3	9366	56.8	0.98	228
WALLEYE	6648	67.3	2.9	6208	5597	51.4	8.5	5250	15.8	3.28	129
FRESHWATER DRUM	117	1100.9	0.1	0	0	.	0.0	0	100.0	.	0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2011

LAKE=DALE HOLLOW

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	3539	36.5	555	1.0	0.28	20.2	0.28	20.2	8
RAINBOW TROUT	790	73.3	121	0.2	1.18		0.33		2
ANY TROUT	7317	23.2	1216	2.1	0.37	25.4	0.37	25.4	15
WHITE BASS	503	101.4	80	0.1	2.67		2.67		1
ANY SUNFISH	25256	13.3	3927	7.1	2.96	17.2	1.80	17.0	56
ANY BLACK BASS	84840	10.1	13435	24.0	0.49	20.5	0.09	50.5	218
SMALLMOUTH BASS	133899	7.8	20954	37.9	0.50	15.5	0.01	84.1	311
SPOTTED BASS	123	143.8	28	0.0	5.56		0.00		1
LARGEMOUTH BASS	4399	34.9	717	1.2	0.39	14.6	0.00		10
ANY CRAPPIE	44467	12.1	7004	12.6	1.61	30.2	0.57	33.3	109
WALLEYE	32506	11.7	5893	9.2	0.28	25.3	0.24	25.5	102
ANY SPECIES	15989	16.5	2848	4.5	0.17	143.3	0.03	204.4	37
TOTAL	**353628**		**56778**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2011

LAKE=DALE HOLLOW

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	CHANNEL CATFISH	0.28	0.28
ANY TROUT			
	RAINBOW TROUT	0.37	0.37
ANY SUNFISH			
	GREEN SUNFISH	0.00	0.00
	BLUEGILL	1.64	0.84
	REDEAR SUNFISH	1.32	0.96
ANY BLACK BASS			
	ANY BLACK BASS	0.00	0.00
	SMALLMOUTH BASS	0.36	0.01
	SPOTTED BASS	0.04	0.01
	LARGEMOUTH BASS	0.07	0.01
ANY CRAPPIE			
	ANY CRAPPIE	0.00	0.00
	WHITE CRAPPIE	0.25	0.03
	BLACK CRAPPIE	0.57	0.22
	BLACKNOSE CRAPPIE	0.79	0.32

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=DALE HOLLOW

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.22	40
02 FEBRUARY	12	0.33	6	0.19	47
03 MARCH	12	0.48	5	0.41	94
04 APRIL	0		0	0.59	81
05 MAY	1	1.39	2	0.68	80
06 JUNE	0		0	1.04	19
07 JULY	0		0	0.05	4
08 AUGUST	0		0	0.78	19
09 SEPTEMBER	17	0.60	10	0.47	29
10 OCTOBER	20	0.53	6	0.62	30
11 NOVEMBER	0		0	0.57	25
12 DECEMBER	1	0.36	1	0.47	40

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2011

LAKE=DALE HOLLOW

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	6130	4990	11110	8
RAINBOW TROUT	2230	1350	3380	2
ANY TROUT	57930	22390	80320	15
WHITE BASS	800	800	1600	1
ANY SUNFISH	65680	46530	112210	56
ANY BLACK BASS	413050	270930	683980	218
SMALLMOUTH BASS	929440	503870	1433300	309
SPOTTED BASS	1100	2750	3860	1
LARGEMOUTH BASS	8670	8420	17090	10
ANY CRAPPIE	141810	89650	229760	108
WALLEYE	99290	76950	176240	101
ANY SPECIES	50770	36880	80590	37
TOTAL	**1776900**	**1065510**	**2833440**	**866**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2011

LAKE=DALE HOLLOW

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
IN	107	5.8
KY	423	22.8
OH	280	15.1
TN	908	49.0
OTHERS	135	7.3

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
CLAY	239	26.4
DAVIDSON	71	7.9
OVERTON	153	16.9
PICKETT	122	13.5
PUTNAM	78	8.6
OTHERS IN TN	241	26.7

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	632	34.1
B) 26-100	329	17.8
C) 101-250	338	18.2
D) > 250	554	29.9

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	792	89
B) VACATION	98	11

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	504	56.6
B) 2-5	241	27.1
C) 6-10	134	15.1
D) 11-15	8	0.9
F) >20	3	0.3

NICKAJACK RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2011

LAKE=NICKAJACK

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	1919	64.8	0.2	306	0.0	0.7
02 FEBRUARY	5565	32.2	0.5	922	0.1	2.2
03 MARCH	7055	61.0	0.7	1246	0.1	2.8
04 APRIL	84487	87.7	8.1	14257	1.4	33.0
05 MAY	40696	27.2	3.9	6704	0.6	15.9
06 JUNE	30848	.	3.0	5888	0.6	12.0
07 JULY	22852	4.3	2.2	3444	0.3	8.9
08 AUGUST	17730	15.9	1.7	3271	0.3	6.9
09 SEPTEMBER	15621	33.8	1.5	2547	0.2	6.1
10 OCTOBER	14498	27.8	1.4	2771	0.3	5.7
11 NOVEMBER	8895	35.9	0.9	1796	0.2	3.5
12 DECEMBER	6175	.	0.6	1552	0.1	2.4
TOTAL	**256341**			**44704**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2011

LAKE=NICKAJACK

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	940	67.7	0.49	16.4	192	65.2	0.10	6.4
02 FEBRUARY	9739	45.0	1.75	29.9	1725	83.4	0.31	74.1
03 MARCH	20601	84.8	2.92	50.4	2893	61.5	0.41	6.6
04 APRIL	147007	91.4	1.74	19.3	29570	103.3	0.35	40.7
05 MAY	151796	41.9	3.73	30.8	50463	61.8	1.24	53.7
06 JUNE	64472	.	2.09	.	25295	.	0.82	.
07 JULY	43419	37.0	1.90	36.7	4799	100.6	0.21	100.0
08 AUGUST	46630	19.6	2.63	11.3	1241	76.0	0.07	73.9
09 SEPTEMBER	34210	42.6	2.19	24.5	4686	76.1	0.30	65.3
10 OCTOBER	28561	33.0	1.97	17.2	5654	34.0	0.39	18.6
11 NOVEMBER	13165	38.8	1.48	13.8	2580	44.0	0.29	24.1
12 DECEMBER	6854	.	1.11	.	2408	.	0.39	.
TOTAL	**567394**				**131506**			

SUMMARY OF SPECIES CATCH STATISTICS - 2011

LAKE=NICKAJACK

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
BLUE CATFISH	55315	32.6	9.8	46175	24147	32.4	18.4	22454	56.3	2.81	211
CHANNEL CATFISH	3730	157.1	0.7	3443	1436	153.9	1.1	1299	61.5	2.43	21
FLATHEAD CATFISH	2527	406.6	0.4	2286	453	520.9	0.3	453	82.1	5.78	6
WHITE BASS	29391	62.9	5.2	17746	5808	99.6	4.4	4897	80.2	0.93	51
YELLOW BASS	54567	51.1	9.6	30183	3326	62.3	2.5	3326	93.9	0.34	8
STRIPED BASS	539	1183.4	0.1	0	283	1209.6	0.2	0	47.5	22.35	2
REDBREAST SUNFISH	1653	281.6	0.3	1171	1490	297.7	1.1	969	9.9	0.43	20
BLUEGILL	178019	23.9	31.4	142357	51459	40.7	39.1	43055	71.1	0.28	346
REDEAR SUNFISH	32278	62.5	5.7	29554	17318	83.7	13.2	17318	46.3	0.47	114
SMALLMOUTH BASS	17311	92.5	3.1	15239	344	480.2	0.3	229	98.0	4.68	6
SPOTTED BASS	28370	59.7	5.0	24694	869	158.2	0.7	869	96.9	2.05	12
LARGEMOUTH BASS	101276	28.8	17.9	96739	9712	55.4	7.4	9712	90.4	2.63	42
WHITE CRAPPIE	6140	507.2	1.1	5959	620	890.6	0.5	620	89.9	0.92	5
BLACK CRAPPIE	38451	78.8	6.8	32018	14241	86.6	10.8	11439	63.0	0.83	122
SAUGER	177	1102.3	0.0	89	0	.	0.0	0	100.0	.	0
FRESHWATER DRUM	16817	87.7	3.0	6224	0	.	0.0	0	100.0	.	0

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2011

LAKE=NICKAJACK

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	26946	30.7	4742	10.5	1.09	30.3	0.51	43.9	45
ANY SUNFISH	1141	48.8	201	0.4	5.00		0.00		2
ANY BLACK BASS	117844	24.1	20498	46.0	0.89	21.3	0.07	93.5	214
LARGEMOUTH BASS	2127		406	0.8	0.11		0.00		1
ANY CRAPPIE	11300	63.6	1946	4.4	2.08	59.8	0.73	42.1	17
ANY SPECIES	96984	39.3	16910	37.8	3.18	22.6	1.09	35.7	151
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TOTAL	**256342**		**44703**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2011

LAKE=NICKAJACK

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	BLUE CATFISH	0.97	0.47
	CHANNEL CATFISH	0.07	0.03
	FLATHEAD CATFISH	0.05	0.01
ANY SUNFISH			
	REDBREAST SUNFISH	0.03	0.00
	BLUEGILL	4.11	0.00
	REDEAR SUNFISH	0.85	0.00
ANY BLACK BASS			
	SMALLMOUTH BASS	0.13	0.00
	SPOTTED BASS	0.21	0.01
	LARGEMOUTH BASS	0.81	0.08
ANY CRAPPIE			
	WHITE CRAPPIE	0.33	0.04
	BLACK CRAPPIE	1.75	0.69

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=NICKAJACK

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.21	9
02 FEBRUARY	0		0	0.47	13
03 MARCH	0		0	0.63	16
05 MAY	0		0	1.21	41
06 JUNE	35	0.80	8	0.82	10
07 JULY	0		0	0.73	15
08 AUGUST	62	0.55	8	1.61	13
09 SEPTEMBER	16	1.22	2	0.52	19
10 OCTOBER	0		0	0.64	15
11 NOVEMBER	0		0	0.69	18
12 DECEMBER	0		0	1.15	9

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS
FOR INTENDED SPECIES - 2011

LAKE=NICKAJACK

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	114510	134050	248560	39
ANY SUNFISH	2310	10980	13290	2
ANY BLACK BASS	606270	536880	1143160	200
LARGEMOUTH BASS	1120	2540	3650	1
ANY CRAPPIE	63570	43340	106910	16
ANY SPECIES	183040	227810	410850	126
TOTAL	**970820**	**955600**	**1926420**	**384**

SUMMARY OF SOCIOLOGICAL QUESTIONS – 2011

LAKE=NICKAJACK

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
GA	131	15.7
TN	697	83.7
OTHERS	5	0.6

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BRADLEY	91	13.1
HAMILTON	310	44.5
MARION	143	20.5
OTHERS IN TN	152	21.8

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	615	75.1
B) 26-100	200	24.4
C) 101-250	2	0.2
D) > 250	2	0.2

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	419	100

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
	1	
A) 1	415	99.5
C) 6-10	2	0.5

TWRA

REGION IV

NORRIS

RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2011

LAKE=NORRIS

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	13416	25.0	0.4	3382	0.1	8.7
04 APRIL	25596	41.4	0.7	5039	0.1	16.7
05 MAY	29575	33.1	0.9	5975	0.2	19.3
06 JUNE	22510	21.6	0.7	5625	0.2	14.7
07 JULY	10932	26.5	0.3	2055	0.1	7.1
08 AUGUST	15184	22.9	0.4	2866	0.1	9.9
09 SEPTEMBER	12827	33.8	0.4	2546	0.1	8.4
10 OCTOBER	14154	29.0	0.4	3043	0.1	9.2
11 NOVEMBER	9377	28.3	0.3	1818	0.1	6.1
TOTAL	**153571**			**32349**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2011

LAKE=NORRIS

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	7781	71.2	0.58	64.9	1610	103.7	0.12	100.0
04 APRIL	44281	60.1	1.73	40.2	15102	80.1	0.59	62.8
05 MAY	37560	52.5	1.27	38.6	22477	53.3	0.76	39.9
06 JUNE	23410	42.3	1.04	35.5	9679	44.1	0.43	37.9
07 JULY	7652	58.9	0.70	50.9	2077	54.5	0.19	46.7
08 AUGUST	17158	44.4	1.13	36.9	3796	44.3	0.25	37.6
09 SEPTEMBER	11673	55.3	0.91	41.3	1283	86.6	0.10	73.9
10 OCTOBER	12597	41.2	0.89	28.1	1415	81.3	0.10	76.5
11 NOVEMBER	6470	43.4	0.69	31.5	1125	77.8	0.12	69.1
TOTAL	**168582**				**58564**			

SUMMARY OF SPECIES CATCH STATISTICS - 2011

LAKE=NORRIS

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
LONGNOSE GAR	226	1305.3	0.1	226	0	.	0.0	0	100.0	.	0
CHANNEL CATFISH	3084	108.3	1.8	1142	1060	140.7	1.8	742	65.6	2.34	10
FLATHEAD CATFISH	299	882.9	0.2	299	194	1215.1	0.3	194	35.1	3.95	1
WHITE BASS	4115	253.8	2.4	1975	0	.	0.0	0	100.0	.	0
YELLOW BASS	328	476.5	0.2	0	0	.	0.0	0	100.0	.	0
STRIPED BASS	16095	63.0	9.5	13288	9064	85.7	15.5	9064	43.7	11.95	35
ROCK BASS	290	667.6	0.2	0	0	.	0.0	0	100.0	.	0
BLUEGILL	59001	33.5	34.9	55574	25781	50.6	44.0	24370	56.3	0.25	201
REDEAR SUNFISH	14274	71.1	8.4	13005	13649	72.8	23.3	12846	4.4	0.78	85
SMALLMOUTH BASS	24539	38.7	14.5	18047	365	334.4	0.6	365	98.5	3.23	4
SPOTTED BASS	16983	49.7	10.0	11962	548	231.9	0.9	0	96.8	1.32	3
LARGEMOUTH BASS	16339	47.1	9.7	11613	75	207.5	0.1	75	99.5	2.25	1
WHITE CRAPPIE	2213	294.1	1.3	1475	736	562.3	1.3	736	66.7	0.71	5
BLACK CRAPPIE	5554	114.9	3.3	5554	2663	127.7	4.5	2663	52.1	0.68	9
BLACKNOSE CRAPPIE	2258	192.1	1.3	2258	1484	200.7	2.5	1484	34.3	0.85	16
WALLEYE	3576	91.9	2.1	3332	2944	98.0	5.0	2789	17.7	2.41	38

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2011

LAKE=NORRIS

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
STRIPED BASS	24803	22.9	5018	16.2	0.34	34.9	0.13	38.3	33
ANY SUNFISH	21194	23.9	4558	13.8	3.34	34.4	1.89	37.0	27
ANY BLACK BASS	37029	19.0	8046	24.1	0.65	47.5	0.00	245.9	57
SMALLMOUTH BASS	15004	28.2	3110	9.8	0.54	39.2	0.01	247.5	23
SPOTTED BASS	230	137.9	43	0.1	2.25		0.00		1
LARGEMOUTH BASS	1702	54.5	330	1.1	0.35	39.7	0.00		4
ANY CRAPPIE	11620	34.7	2543	7.6	1.28	19.2	0.56	77.1	14
WALLEYE	13829	24.1	2822	9.0	0.22	27.0	0.20	31.0	27
ANY SPECIES	28163	20.2	5881	18.3	0.85	46.8	0.17	67.1	38
TOTAL	**153574**		**32351**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2011

LAKE=NORRIS

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY SUNFISH			
	BLUEGILL	2.71	1.24
	REDEAR SUNFISH	0.63	0.65
ANY BLACK BASS			
	SMALLMOUTH BASS	0.33	0.01
	SPOTTED BASS	0.22	0.00
	LARGEMOUTH BASS	0.22	0.00
	LARGEMOUTH BASS	0.22	0.00
ANY CRAPPIE			
	WHITE CRAPPIE	0.20	0.08
	BLACK CRAPPIE	0.77	0.31
	BLACKNOSE CRAPPIE	0.31	0.17

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=NORRIS

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.35	3
04 APRIL	0		0	0.65	17
05 MAY	0		0	0.79	6
06 JUNE	0		0	0.52	11
07 JULY	0		0	0.00	3
08 AUGUST	36	0.17	4	1.67	4
09 SEPTEMBER	0		0	0.89	10
10 OCTOBER	0		0	0.88	10
11 NOVEMBER	0		0	0.62	17

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS
FOR INTENDED SPECIES - 2011

LAKE=NORRIS

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
STRIPED BASS	67400	58570	125970	33
ANY SUNFISH	19480	22060	41540	27
ANY BLACK BASS	103670	48670	152340	56
SMALLMOUTH BASS	53560	92170	145730	18
SPOTTED BASS	0	0	0	1
LARGEMOUTH BASS	13030	13030	26060	4
ANY CRAPPIE	19400	14620	34020	13
WALLEYE	21140	2960	24090	26
ANY SPECIES	30610	16350	46960	37
TOTAL	**328290**	**268430**	**596710**	**215**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2011

LAKE=NORRIS

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	391	88.1
OTHERS	53	11.9

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
ANDERSON	109	27.7
CAMPBELL	32	8.1
CLAIBORNE	47	12.0
KNOX	74	18.8
UNION	109	27.7
OTHERS IN TN	20	5.1
OUT-OF-STATE	2	0.5

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	372	84.2
B) 26-100	31	7.0
C) 101-250	12	2.7
D) > 250	27	6.1

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	227	100

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	209	92.1
B) 2-5	16	7.0
C) 6-10	2	0.9

CHEROKEE
RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2011

LAKE=CHEROKEE

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
07 JULY	17371	25.1	0.6	2922	0.1	15.5
08 AUGUST	27639	27.4	0.9	4443	0.1	24.7
09 SEPTEMBER	15070	20.0	0.5	2650	0.1	13.5
10 OCTOBER	19293	21.4	0.6	3519	0.1	17.2
11 NOVEMBER	11148	21.8	0.4	2011	0.1	10.0
12 DECEMBER	21461	37.1	0.7	3868	0.1	19.2
TOTAL	**111982**			**19413**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2011

LAKE=CHEROKEE

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
07 JULY	23277	28.8	1.34	13.7	8164	28.6	0.47	13.3
08 AUGUST	46710	34.3	1.69	19.9	7186	44.7	0.26	33.9
09 SEPTEMBER	19742	32.7	1.31	25.5	8138	64.0	0.54	59.3
10 OCTOBER	13698	28.9	0.71	19.1	3473	41.7	0.18	34.8
11 NOVEMBER	13935	35.9	1.25	27.8	4682	71.4	0.42	65.8
12 DECEMBER	19744	43.8	0.92	21.9	8155	46.6	0.38	26.5
TOTAL	**137106**				**39798**			

SUMMARY OF SPECIES CATCH STATISTICS - 2011

LAKE=CHEROKEE

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
LONGNOSE GAR	82	1438.4	0.1	0	0	.	0.0	0	100.0	.	0
CARP	30	2027.3	0.0	30	0	.	0.0	0	100.0	.	0
BLUE CATFISH	1361	218.6	1.0	1021	942	205.7	2.4	942	30.8	3.93	6
CHANNEL CATFISH	2873	113.3	2.1	2024	1621	120.5	4.1	1389	43.6	5.33	21
FLATHEAD CATFISH	75	2440.4	0.1	0	0	.	0.0	0	100.0	.	0
WHITE BASS	102	703.7	0.1	0	72	529.4	0.2	0	29.4	1.80	2
STRIPED BASS	8127	45.0	6.0	7365	4976	46.9	12.5	4692	38.8	8.94	70
CHEROKEE BASS	1694	92.9	1.2	0	1223	103.9	3.1	0	27.8	9.32	18
ROCK BASS	600	459.4	0.4	600	525	392.5	1.3	525	12.5	0.22	10
WARMOUTH	2315	183.4	1.7	1634	233	392.4	0.6	0	89.9	0.33	5
BLUEGILL	22537	35.2	16.5	11371	5462	50.0	13.7	2612	75.8	0.22	69
REDEAR SUNFISH	525	917.7	0.4	525	0	.	0.0	0	100.0	.	0
SMALLMOUTH BASS	8099	51.6	5.9	1436	1341	68.6	3.4	335	83.4	3.36	24
SPOTTED BASS	14673	34.9	10.8	4998	3986	51.0	10.0	456	72.8	1.79	35
LARGEMOUTH BASS	54285	17.1	39.8	50811	9998	25.2	25.1	8976	81.6	2.68	137
WHITE CRAPPIE	2764	160.2	2.0	2361	648	192.7	1.6	583	76.6	0.67	10
BLACK CRAPPIE	11104	51.3	8.1	10819	6852	58.8	17.2	6732	38.3	0.66	114
BLACKNOSE CRAPPIE	3818	88.1	2.8	3449	1671	139.1	4.2	1380	56.2	0.65	23
SAUGER	138	906.0	0.1	0	138	906.0	0.3	0	0.0	3.60	1
FRESHWATER DRUM	157	959.7	0.1	0	52	912.2	0.1	0	66.9	3.10	1

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2011

LAKE=CHEROKEE

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	5716	29.5	962	5.1	0.42	38.9	0.30	44.7	21
STRIPED BASS	21190	20.2	3822	18.9	0.28	23.8	0.16	28.6	78
ANY BLACK BASS	2177	57.0	364	1.9	0.65	42.2	0.15	121.0	5
SMALLMOUTH BASS	1185	53.9	213	1.1	0.78	17.2	0.40	44.9	6
LARGEMOUTH BASS	60145	12.5	10337	53.7	0.70	15.1	0.11	35.9	250
ANY CRAPPIE	12764	21.8	2253	11.4	1.50	40.5	0.71	33.8	53
ANY SPECIES	8479	25.3	1411	7.6	2.58	39.7	0.39	99.2	31
OTHER	329	98.4	53	0.3	0.00		0.00		1
TOTAL	**111985**		**19415**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2011

LAKE=CHEROKEE

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.14	0.12
	CHANNEL CATFISH	0.28	0.18
	FLATHEAD CATFISH	0.00	0.00
ANY BLACK BASS			
	SMALLMOUTH BASS	0.02	0.01
	SPOTTED BASS	0.08	0.01
	LARGEMOUTH BASS	0.80	0.14
ANY CRAPPIE			
	WHITE CRAPPIE	0.21	0.05
	BLACK CRAPPIE	0.98	0.55
	BLACKNOSE CRAPPIE	0.31	0.11

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=CHEROKEE

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
07 JULY	9	1.20	2	0.60	14
08 AUGUST	6	1.75	5	0.75	68
09 SEPTEMBER	40	0.92	17	0.56	43
10 OCTOBER	20	0.54	8	0.62	38
11 NOVEMBER	55	0.84	14	0.82	22
12 DECEMBER	3	0.00	3	0.46	27

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2011

LAKE=CHEROKEE

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	20400	10790	31190	21
STRIPED BASS	164500	17620	182120	78
ANY BLACK BASS	26880	10040	36920	5
SMALLMOUTH BASS	26450	3910	30360	6
LARGEMOUTH BASS	470900	125110	596010	250
ANY CRAPPIE	33320	12270	45580	53
ANY SPECIES	20810	9790	30600	31
OTHER	1110	0	1110	1
TOTAL	**764370**	**189530**	**953890**	**445**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2011

LAKE=CHEROKEE

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
KY	76	9.7
TN	626	79.8
VA	46	5.9
OTHERS	36	4.6

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
GRAINGER	145	23.2
HAMBLEN	172	27.5
HAWKINS	83	13.3
JEFFERSON	44	7.0
OTHERS IN TN	178	28.5
OUT-OF-STATE	3	0.5

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	402	51.3
B) 26-100	270	34.5
C) 101-250	73	9.3
D) > 250	38	4.9

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	446	97.8
B) VACATION	4	0.9
C) BUSINESS	6	1.3

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	391	85.7
B) 2-5	61	13.4
C) 6-10	4	0.9

MELTON HILL
RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2011

LAKE=MELTON HILL

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	2181	44.7	0.4	574	0.1	3.6
02 FEBRUARY	3276	14.7	0.6	935	0.2	5.4
03 MARCH	8760	21.7	1.5	2212	0.4	14.5
04 APRIL	11042	20.9	1.9	2444	0.4	18.2
05 MAY	8946	19.7	1.6	2137	0.4	14.8
06 JUNE	9684	28.8	1.7	2320	0.4	16.0
07 JULY	2743	51.3	0.5	671	0.1	4.5
08 AUGUST	4433	39.5	0.8	1338	0.2	7.3
09 SEPTEMBER	4918	26.6	0.9	1063	0.2	8.1
10 OCTOBER	3059	32.3	0.5	812	0.1	5.0
11 NOVEMBER	447	63.6	0.1	116	0.0	0.7
12 DECEMBER	1133	50.9	0.2	251	0.0	1.9
TOTAL	**60622**			**14873**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2011

LAKE=MELTON HILL

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	1091	91.5	0.50	72.7	44	111.1	0.02	100.0
02 FEBRUARY	1081	65.4	0.33	63.2	164	101.3	0.05	100.0
03 MARCH	3241	31.5	0.37	22.2	0	.	0.00	.
04 APRIL	9054	30.9	0.82	22.3	1215	56.7	0.11	49.7
05 MAY	7604	31.0	0.85	23.4	447	98.2	0.05	100.0
06 JUNE	12589	34.4	1.30	18.1	2712	81.5	0.28	73.2
07 JULY	5102	56.3	1.86	20.6	82	91.3	0.03	69.4
08 AUGUST	4078	58.1	0.92	39.5	887	112.8	0.20	96.3
09 SEPTEMBER	7623	37.2	1.55	25.1	1033	79.1	0.21	71.6
10 OCTOBER	3151	62.5	1.03	51.0	704	88.6	0.23	77.8
11 NOVEMBER	139	63.6	0.31	0.0	0	.	0.00	.
12 DECEMBER	668	51.0	0.59	2.4	11	77.3	0.01	100.0
TOTAL	**55421**				**7299**			

SUMMARY OF SPECIES CATCH STATISTICS - 2011

LAKE=MELTON HILL

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CHANNEL CATFISH	44	110.2	0.1	44	44	110.2	0.6	44	0.0	1.90	2
MUSKELLUNGE	327	361.0	0.6	327	0	.	0.0	0	100.0	.	0
WHITE BASS	5434	56.0	9.8	2779	2254	73.5	30.9	2254	58.5	0.89	31
STRIPED BASS	2143	93.9	3.9	559	126	347.8	1.7	126	94.1	22.40	2
BLUEGILL	9358	40.6	16.9	7057	2068	58.3	28.3	2068	77.9	0.64	31
SMALLMOUTH BASS	4334	51.2	7.8	357	66	249.8	0.9	0	98.5	3.50	1
SPOTTED BASS	1980	127.9	3.6	473	0	.	0.0	0	100.0	.	0
LARGEMOUTH BASS	28950	15.8	52.3	28514	1362	65.0	18.7	1362	95.3	2.33	24
WHITE CRAPPIE	2341	67.2	4.2	2247	1293	53.1	17.7	1293	44.8	1.00	26
BLACK CRAPPIE	86	352.3	0.2	86	86	352.3	1.2	86	0.0	1.30	2

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2011

LAKE=MELTON HILL

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	542	56.6	136	0.9	0.18		0.18		3
MUSKELLUNGE	4790	20.8	1166	7.9	0.04	79.3	0.00		31
WHITE BASS	816	51.0	204	1.3	1.72	58.1	1.51	58.5	6
STRIPED BASS	5330	19.8	1313	8.8	0.07	101.5	0.01	137.9	36
ANY SUNFISH	514	62.6	139	0.8	1.89		1.81		2
SMALLMOUTH BASS	203	96.1	49	0.3	0.36		0.00		2
LARGEMOUTH BASS	26871	11.4	6633	44.3	0.97	17.1	0.04	91.7	181
ANY CRAPPIE	3791	24.8	886	6.3	0.86	37.9	0.50	43.5	25
ANY SPECIES	17767	12.7	4347	29.3	0.70	44.9	0.06	154.5	79
TOTAL	**60624**		**14873**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2011

LAKE=MELTON HILL

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY CATFISH	0.00	0.00
	CHANNEL CATFISH	0.18	0.18
ANY SUNFISH			
	ANY SUNFISH	0.00	0.00
	BLUEGILL	1.89	1.81
ANY BLACK BASS			
	SMALLMOUTH BASS	0.01	0.00
	SPOTTED BASS	0.02	0.00
	LARGEMOUTH BASS	1.05	0.05
ANY CRAPPIE			
	WHITE CRAPPIE	0.83	0.47
	BLACK CRAPPIE	0.03	0.03

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=MELTON HILL

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.50	3
02 FEBRUARY	0		0	0.44	13
03 MARCH	0		0	0.74	24
04 APRIL	0		0	1.14	24
05 MAY	19	1.43	5	0.90	24
06 JUNE	18	1.57	8	0.95	17
07 JULY	12	1.75	1	1.41	10
08 AUGUST	0		6	0.78	13
09 SEPTEMBER	0		0	1.21	14
10 OCTOBER	0		0	0.67	10
11 NOVEMBER	0		0	0.45	4
12 DECEMBER	0		0	0.67	5

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2011

LAKE=MELTON HILL

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	1840	510	2360	3
MUSKELLUNGE	30210	17490	47700	31
WHITE BASS	3920	1060	4980	6
STRIPED BASS	29970	15860	45830	35
ANY SUNFISH	1340	700	2040	2
SMALLMOUTH BASS	870	0	870	2
LARGEMOUTH BASS	163330	62480	225810	181
ANY CRAPPIE	19690	4600	24290	25
ANY SPECIES	37430	9000	46430	79
TOTAL	**288600**	**111700**	**400310**	**364**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2011

LAKE=MELTON HILL

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	613	99.7
OTHERS	2	0.3

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
ANDERSON	303	49.4
KNOX	271	44.2
OTHERS IN TN	39	6.4

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	611	99.3
B) 26-100	4	0.7

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	365	99.7
B) VACATION	1	0.3

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	365	99.7
B) 2-5	1	0.3

TELLICO
RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2011

LAKE=TELLICO

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	4074	39.4	0.3	1273	0.1	3.6
02 FEBRUARY	7593	23.6	0.5	1687	0.1	6.8
03 MARCH	15336	16.5	1.0	3180	0.2	13.6
04 APRIL	22550	18.8	1.4	4416	0.3	20.1
05 MAY	17015	20.4	1.1	3720	0.2	15.1
06 JUNE	7709	32.7	0.5	1655	0.1	6.9
07 JULY	2351	34.9	0.1	526	0.0	2.1
08 AUGUST	12662	18.5	0.8	2857	0.2	11.3
09 SEPTEMBER	8441	16.4	0.5	1787	0.1	7.5
10 OCTOBER	7544	20.7	0.5	1818	0.1	6.7
11 NOVEMBER	3273	30.5	0.2	785	0.0	2.9
12 DECEMBER	3832	37.0	0.2	835	0.1	3.4
TOTAL	**112380**			**24539**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2011

LAKE=TELLICO

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	2363	75.7	0.58	60.1	1752	75.0	0.43	59.1
02 FEBRUARY	12073	37.6	1.59	28.5	5619	42.7	0.74	34.5
03 MARCH	16103	23.8	1.05	16.9	6594	29.7	0.43	24.1
04 APRIL	40590	27.0	1.80	18.9	15109	39.2	0.67	33.7
05 MAY	29266	30.0	1.72	21.5	10379	47.1	0.61	41.8
06 JUNE	10407	35.1	1.35	12.1	1619	59.2	0.21	46.8
07 JULY	1552	42.3	0.66	22.6	94	123.6	0.04	100.0
08 AUGUST	10256	30.1	0.81	23.4	760	100.0	0.06	100.0
09 SEPTEMBER	17726	26.3	2.10	20.3	7006	41.3	0.83	37.3
10 OCTOBER	7921	37.7	1.05	30.8	3018	48.9	0.40	43.7
11 NOVEMBER	6481	35.8	1.98	18.1	2815	48.5	0.86	36.1
12 DECEMBER	5825	55.7	1.52	39.1	2606	68.8	0.68	54.8
TOTAL	**160563**				**57371**			

SUMMARY OF SPECIES CATCH STATISTICS - 2011

LAKE=TELLICO

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CARP	194	907.7	0.1	194	0	.	0.0	0	100.0	.	0
CHANNEL CATFISH	228	619.3	0.1	0	177	672.6	0.3	0	22.4	2.47	3
RAINBOW TROUT	96	857.0	0.1	96	96	857.0	0.2	96	0.0	1.55	2
WHITE BASS	2788	123.4	1.7	507	215	381.7	0.4	0	92.3	1.28	4
STRIPED BASS	851	313.6	0.5	340	0	.	0.0	0	100.0	.	0
BLUEGILL	5188	107.6	3.2	4400	584	168.0	1.0	584	88.7	0.69	12
SMALLMOUTH BASS	4455	89.4	2.8	274	0	.	0.0	0	100.0	.	0
SPOTTED BASS	2740	136.8	1.7	444	0	.	0.0	0	100.0	.	0
LARGEMOUTH BASS	42655	15.4	26.5	40850	487	97.7	0.8	487	98.9	1.44	10
WHITE CRAPPIE	96118	11.3	59.8	93907	51711	16.5	90.1	51003	46.2	1.10	950
BLACK CRAPPIE	4784	70.4	3.0	4653	4043	72.1	7.0	3917	15.5	1.10	64

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2011

LAKE=TELLICO

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	791	61.6	179	0.7	0.00		0.00		2
STRIPED BASS	1712	39.3	387	1.5	0.30	34.1	0.00		8
ANY SUNFISH	390	75.8	94	0.3	1.63		0.89		1
ANY BLACK BASS	328	89.8	76	0.3	0.75		0.00		2
SMALLMOUTH BASS	1199	45.9	267	1.1	0.41	16.0	0.00		6
LARGEMOUTH BASS	42739	9.6	9346	38.0	0.96	23.4	0.01	138.8	191
ANY CRAPPIE	50778	9.0	11059	45.2	2.26	15.4	1.33	20.1	215
WALLEYE	1908	38.7	434	1.7	0.00		0.00		11
ANY SPECIES	12537	16.3	2701	11.2	0.78	50.0	0.02	252.4	32
TOTAL	**112382**		**24543**						

SUMMARY OF RELATIVE SPECIES CATCH RATES
WITHIN TARGET GROUPS - 2011

LAKE=TELLICO

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY CATFISH	0.00	0.00
	CHANNEL CATFISH	0.00	0.00
ANY SUNFISH			
	BLUEGILL	1.63	0.89
ANY BLACK BASS			
	SMALLMOUTH BASS	0.01	0.00
	SPOTTED BASS	0.01	0.00
	LARGEMOUTH BASS	0.92	0.01
ANY CRAPPIE			
	WHITE CRAPPIE	2.15	1.24
	BLACK CRAPPIE	0.11	0.09

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=TELLICO

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.09	5
02 FEBRUARY	0		0	0.88	11
03 MARCH	0		0	1.13	20
04 APRIL	0		0	1.21	21
05 MAY	4	2.75	2	0.81	31
06 JUNE	0		0	0.98	24
07 JULY	0		0	0.90	12
08 AUGUST	0		0	1.00	30
09 SEPTEMBER	0		0	0.95	15
10 OCTOBER	49	0.67	3	0.50	15
11 NOVEMBER	0		0	0.00	2
12 DECEMBER	0		0	0.89	7

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS FOR INTENDED SPECIES - 2011

LAKE=TELLICO

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	3570	450	4020	2
STRIPED BASS	27930	4720	32660	8
ANY SUNFISH	1250	0	1250	1
ANY BLACK BASS	1810	2440	4250	2
SMALLMOUTH BASS	6120	2180	8300	6
LARGEMOUTH BASS	210210	142480	352700	189
ANY CRAPPIE	212670	69820	282490	214
WALLEYE	12260	5280	17540	11
ANY SPECIES	21520	7550	29070	32
TOTAL	**497340**	**234920**	**732280**	**465**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2011

LAKE=TELLICO

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	728	99.7
OTHERS	2	0.3

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
BLOUNT	317	43.6
KNOX	41	5.6
LOUDON	157	21.6
MONROE	195	26.8
OTHERS IN TN	17	2.3

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	705	97.0
B) 26-100	20	2.8
C) 101-250	2	0.3

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	469	100

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	468	99.8
B) 2-5	1	0.2

BOONE

RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2011

LAKE=BOONE

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	6631	.	1.5	1177	0.3	4.9
04 APRIL	14791	24.8	3.3	2116	0.5	11.0
05 MAY	29173	14.0	6.5	5093	1.1	21.7
06 JUNE	19568	19.9	4.3	3672	0.8	14.6
07 JULY	13957	42.1	3.1	2909	0.6	10.4
08 AUGUST	7871	.	1.7	1715	0.4	5.9
09 SEPTEMBER	11067	28.8	2.4	1699	0.4	8.2
10 OCTOBER	15172	19.5	3.4	2266	0.5	11.3
11 NOVEMBER	10764	25.0	2.4	1674	0.4	8.0
12 DECEMBER	5346	63.0	1.2	960	0.2	4.0
TOTAL	**134340**			**23281**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2011

LAKE=BOONE

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	4310	.	0.65	.	133	.	0.02	.
04 APRIL	9614	27.0	0.65	10.3	148	51.8	0.01	78.6
05 MAY	33257	17.8	1.14	11.0	2917	46.4	0.10	45.1
06 JUNE	14089	24.8	0.72	14.5	1370	23.7	0.07	12.6
07 JULY	10468	54.9	0.75	32.3	279	95.7	0.02	74.3
08 AUGUST	7556	.	0.96	.	236	.	0.03	.
09 SEPTEMBER	8411	61.0	0.76	51.9	1217	78.3	0.11	72.5
10 OCTOBER	10014	24.5	0.66	14.5	759	54.5	0.05	45.6
11 NOVEMBER	7320	32.1	0.68	19.5	1830	64.5	0.17	57.0
12 DECEMBER	1604	92.9	0.30	58.6	53	131.3	0.01	100.0
TOTAL	**106643**				**8942**			

SUMMARY OF SPECIES CATCH STATISTICS - 2011

LAKE=BOONE

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CARP	914	324.3	0.9	430	62	206.7	0.7	0	93.2	4.30	2
ANY BULLHEAD	31	403.3	0.0	31	31	403.3	0.3	31	0.0	12.80	1
CHANNEL CATFISH	2808	88.7	2.6	1978	573	98.3	6.4	573	79.6	3.69	11
FLATHEAD CATFISH	84	355.3	0.1	84	84	355.3	0.9	84	0.0	6.75	2
RAINBOW TROUT	68	.	0.1	0	0	.	0.0	0	100.0	.	0
BROWN TROUT	43	576.0	0.0	22	0	.	0.0	0	100.0	.	0
STRIPED BASS	10473	36.4	9.8	5015	1620	53.5	18.1	1395	84.5	6.55	36
CHEROKEE BASS	9080	41.7	8.5	2798	874	54.2	9.8	278	90.4	4.12	21
BLUEGILL	33541	19.9	31.5	18803	2137	42.6	23.9	1583	93.6	0.35	27
SMALLMOUTH BASS	15082	24.6	14.1	13711	489	64.4	5.5	489	96.8	2.81	5
SPOTTED BASS	2783	111.4	2.6	2680	36	188.8	0.4	36	98.7	1.00	1
LARGEMOUTH BASS	26749	16.4	25.1	25526	571	49.1	6.4	571	97.9	2.38	8
WHITE CRAPPIE	34	.	0.0	34	0	.	0.0	0	100.0	.	0
BLACK CRAPPIE	2582	79.8	2.4	2391	1658	59.9	18.6	1608	35.8	0.97	33
BLACKNOSE CRAPPIE	1653	143.4	1.6	1653	803	105.0	9.0	803	51.4	0.85	16

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2011

LAKE=BOONE

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	2967	37.3	575	2.2	0.29	0.4	0.20	0.4	7
ANY TEMPERATE BASS	2635	38.8	405	2.0	0.24	28.9	0.02	92.8	10
STRIPED BASS	12037	18.3	2149	9.0	0.26	55.2	0.09	136.3	36
CHEROKEE BASS	1576	45.7	269	1.2	0.68	117.1	0.14	133.6	6
ANY SUNFISH	5757	20.9	1116	4.3	2.65	30.1	0.26	172.9	10
ANY BLACK BASS	70007	9.2	11906	52.1	0.52	20.7	0.01	133.6	258
SMALLMOUTH BASS	843	30.5	143	0.6	0.00		0.00		2
ANY CRAPPIE	4669	21.1	775	3.5	0.79	58.2	0.45	55.2	15
ANY SPECIES	19707	14.0	3534	14.7	1.17	34.0	0.07	107.0	62
OTHER	14142	17.1	2408	10.5	0.00		0.00		47
TOTAL	**134340**		**23280**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2011

LAKE=BOONE

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	ANY BULLHEAD	0.00	0.01
	CHANNEL CATFISH	0.27	0.17
	FLATHEAD CATFISH	0.01	0.02
ANY TEMPERATE BASS			
	STRIPED BASS	0.15	0.02
	CHEROKEE BASS	0.09	0.00
ANY SUNFISH			
	ANY SUNFISH	0.00	0.00
	BLUEGILL	2.65	0.26
ANY BLACK BASS			
	SMALLMOUTH BASS	0.19	0.01
	SPOTTED BASS	0.04	0.00
	LARGEMOUTH BASS	0.36	0.01
ANY CRAPPIE			
	WHITE CRAPPIE	0.01	0.00
	BLACK CRAPPIE	0.46	0.30
	BLACKNOSE CRAPPIE	0.32	0.15

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=BOONE

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.39	12
04 APRIL	29	1.00	18	0.40	32
05 MAY	22	0.82	13	0.54	36
06 JUNE	12	1.41	7	0.54	23
07 JULY	3	0.00	1	0.72	19
08 AUGUST	0		0	0.34	3
09 SEPTEMBER	18	0.25	5	0.25	24
10 OCTOBER	10	0.57	4	0.48	34
11 NOVEMBER	0		0	0.36	19
12 DECEMBER	0		0	0.32	9

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS
FOR INTENDED SPECIES - 2011

LAKE=BOONE

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	3840	5950	8890	7
ANY TEMPERATE BASS	11800	14330	26130	10
STRIPED BASS	59550	60690	120240	36
CHEROKEE BASS	4110	5260	9370	6
ANY SUNFISH	5490	10330	15820	10
ANY BLACK BASS	262270	288910	551180	258
SMALLMOUTH BASS	3590	2820	6410	2
ANY CRAPPIE	6850	13200	20050	15
ANY SPECIES	28170	48680	76850	62
OTHER	148680	149810	298490	47
TOTAL	**534350**	**599980**	**1133430**	**453**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2011

LAKE=BOONE

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	637	75.3
VA	146	17.3
OTHERS	63	7.4

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
CARTER	92	14.5
SULLIVAN	310	48.8
WASHINGTON	191	30.1
OTHERS IN TN	42	6.6

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	604	71.1
B) 26-100	182	21.4
C) 101-250	41	4.8
D) > 250	22	2.6

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	446	98.7
B) VACATION	6	1.3

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	424	94.2
B) 2-5	24	5.3
C) 6-10	1	0.2
D) 11-15	1	0.2

SOUTH HOLSTON RESERVOIR

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2011

LAKE=SOUTH HOLSTON

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	9906	52.5	1.6	1627	0.3	4.9
04 APRIL	38907	24.6	6.1	5117	0.8	19.3
05 MAY	25660	13.6	4.0	3827	0.6	12.8
06 JUNE	23857	23.1	3.8	4161	0.7	11.9
07 JULY	19747	32.7	3.1	3566	0.6	9.8
08 AUGUST	33503	65.1	5.3	5272	0.8	16.7
09 SEPTEMBER	13710	20.3	2.2	2133	0.3	6.8
10 OCTOBER	14352	40.4	2.3	2116	0.3	7.1
11 NOVEMBER	9011	30.8	1.4	1330	0.2	4.5
12 DECEMBER	12443	1.9	2.0	1669	0.3	6.2
TOTAL	**201096**			**30818**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2011

LAKE=SOUTH HOLSTON

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	6736	55.3	0.68	15.5	792	70.5	0.08	39.7
04 APRIL	29569	26.5	0.76	9.8	11672	26.2	0.30	8.8
05 MAY	36950	25.2	1.44	21.1	7698	39.0	0.30	36.2
06 JUNE	20756	33.3	0.87	23.5	4294	38.2	0.18	29.0
07 JULY	14020	36.2	0.71	14.9	4344	38.0	0.22	18.4
08 AUGUST	24457	95.3	0.73	58.0	4355	67.2	0.13	13.7
09 SEPTEMBER	6992	28.1	0.51	19.1	960	44.4	0.07	40.6
10 OCTOBER	10908	55.8	0.76	35.9	3444	56.0	0.24	36.0
11 NOVEMBER	9822	79.7	1.09	70.4	5497	99.6	0.61	90.0
12 DECEMBER	8710	3.2	0.70	2.5	2737	94.9	0.22	94.9
TOTAL	**168920**				**45793**			

SUMMARY OF SPECIES CATCH STATISTICS - 2011

LAKE=SOUTH HOLSTON

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CARP	151	720.3	0.1	0	0	.	0.0	0	100.0	.	0
CHANNEL CATFISH	3052	146.9	1.8	1068	1298	85.7	2.8	730	57.5	3.09	16
FLATHEAD CATFISH	247	361.5	0.1	247	247	361.5	0.5	247	0.0	6.37	3
RAINBOW TROUT	18778	26.3	11.2	14605	13994	24.8	30.6	13306	25.5	2.43	61
BROWN TROUT	379	504.5	0.2	227	172	471.6	0.4	172	54.6	2.50	2
LAKE TROUT	10340	35.9	6.1	5994	6314	38.8	13.8	3756	38.9	4.46	79
ROCK BASS	287	600.4	0.2	0	0	.	0.0	0	100.0	.	0
WARMOUTH	60	1752.8	0.0	60	0	.	0.0	0	100.0	.	0
BLUEGILL	49877	38.6	29.6	31884	3322	44.4	7.3	3160	93.3	0.33	41
SMALLMOUTH BASS	46033	18.3	27.4	42504	4823	58.4	10.5	4604	89.5	3.54	44
LARGEMOUTH BASS	20582	37.0	12.2	19831	590	98.8	1.3	506	97.1	1.61	7
WHITE CRAPPIE	57	2348.7	0.0	57	0	.	0.0	0	100.0	.	0
BLACK CRAPPIE	11047	59.2	6.6	7005	8607	61.2	18.8	5353	22.1	1.06	82
BLACKNOSE CRAPPIE	229	806.7	0.1	229	125	930.3	0.3	125	45.4	1.30	1
WALLEYE	7178	48.1	4.3	5481	6304	50.3	13.8	4797	12.2	4.30	46

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2011

LAKE=SOUTH HOLSTON

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	890	70.2	146	0.4	0.17		0.17		2
RAINBOW TROUT	3968	46.9	548	2.0	1.49	50.9	1.15	50.4	7
ANY TROUT	13422	24.0	2066	6.7	0.38	32.5	0.20	42.8	25
LAKE TROUT	10254	24.8	1684	5.1	0.43	34.8	0.26	36.2	22
ANY SUNFISH	13434	34.7	2220	6.7	1.68	90.9	0.18	169.2	11
ANY BLACK BASS	126178	16.2	18769	62.7	0.46	18.6	0.03	130.5	214
SMALLMOUTH BASS	2402	60.2	393	1.2	0.69	36.0	0.03	162.4	5
LARGEMOUTH BASS	1176	199.5	185	0.6	1.07		0.00		1
ANY CRAPPIE	3746	34.4	568	1.9	1.29	29.9	0.82	36.6	14
WALLEYE	13584	32.3	2242	6.8	0.22	48.7	0.18	51.1	33
ANY SPECIES	12042	32.9	1992	6.0	1.62	27.2	0.26	68.6	22
TOTAL	**201096**		**30813**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2011

LAKE=SOUTH HOLSTON

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	CHANNEL CATFISH	0.14	0.13
	FLATHEAD CATFISH	0.03	0.04
ANY TROUT			
	RAINBOW TROUT	0.37	0.20
	BROWN TROUT	0.01	0.00
ANY SUNFISH			
	WARMOUTH	0.00	0.00
	BLUEGILL	1.68	0.18
ANY BLACK BASS			
	SMALLMOUTH BASS	0.33	0.04
	LARGEMOUTH BASS	0.15	0.00
	LARGEMOUTH BASS	0.15	0.00
ANY CRAPPIE			
	WHITE CRAPPIE	0.01	0.00
	BLACK CRAPPIE	1.24	0.80
	BLACKNOSE CRAPPIE	0.04	0.02

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=SOUTH HOLSTON

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.57	16
04 APRIL	67	0.82	18	0.36	13
05 MAY	4	0.29	1	0.69	38
06 JUNE	30	0.80	8	0.47	16
07 JULY	0		0	0.30	11
08 AUGUST	9	0.12	3	0.12	4
09 SEPTEMBER	18	0.49	6	0.41	21
10 OCTOBER	11	0.47	4	0.28	18
11 NOVEMBER	0		0	0.41	23
12 DECEMBER	34	0.70	7	0.67	12

SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS
FOR INTENDED SPECIES - 2011

LAKE=SOUTH HOLSTON

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	2160	2330	4490	2
RAINBOW TROUT	17090	10320	27410	7
ANY TROUT	26080	41910	67990	25
LAKE TROUT	30540	28070	58600	22
ANY SUNFISH	21870	14160	36030	11
ANY BLACK BASS	616810	514680	1131490	214
SMALLMOUTH BASS	17370	9160	26530	5
LARGEMOUTH BASS	21740	2310	24050	1
ANY CRAPPIE	4790	7100	11880	14
WALLEYE	50210	57410	107630	33
ANY SPECIES	27440	21380	48820	22
TOTAL	**836100**	**708830**	**1544920**	**356**

SUMMARY OF SOCIOLOGICAL QUESTIONS – 2011

LAKE=SOUTH HOLSTON

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	396	51.9
VA	348	45.6
OTHERS	19	2.5

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
CARTER	47	11.8
SULLIVAN	249	62.6
WASHINGTON	66	16.6
OTHERS IN TN	34	8.5
OUT-OF-STATE	2	0.5

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	453	59.4
B) 26-100	303	39.7
C) 101-250	6	0.8
D) > 250	1	0.1

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	358	100

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	346	96.6
B) 2-5	12	3.4

Appendix I

Field Data Collection Forms

Tennessee Wildlife Resources Agency
Reservoir Angler Count

1. Calendar Date____/____/____
   mm dd yy

2. Day Period: am or pm (Circle One)

3. Reservoir _____ (Code)

4. Area _____

5. Clerk ID _____ (TWRA Radio Numbers)

6. Survey Method: Roving or Access Point (Circle)

7. Count of Bank Anglers _____

8. Count of Boat Anglers _____

9. Comments _____

_____

_____

_____

_____

_____

_____

_____

_____

Form No. WR-0795 (Rev. 11-00)
RDA 1455

Tennessee Wildlife Resources Agency
Reservoir Angler Survey

(Questions in bold represent angler contact questions)

1. Calendar Date____/____/_____ 2. Reservoir _____ (Code) 3. Area _____
mm dd yy

4. Angler Type: Bank or Boat (Circle) **5. Hours Fished ____.____**

6. How many more hours do you plan to fish today? ____.___ (indicate completed trip with a zero)

7. Party Size ____ (No. of anglers)

8. Principal Species Fished For: (Circle One)
997=any species, 370=crappie, 360=black bass, 364=LM bass, 362=SM bass, 363=SP bass, 345=sunfish, 238=catfish, 492=walleye, 491=sauger, 493 =saugeye, 282=trout, 287=lake trout, 279=rainbow trout, 284=brown trout, 325=temperate bass, 328=striped bass, 326=white bass, 329=cherokee bass, 268=musky, 16=other

Fish Harvest Information (for party):

Species Code	No. Harvested	Bulk Weight (lbs.)	No. Released
		.	
		.	
		.	
		.	
		.	
		.	

Economic Section

9. State of Residence _____ (Code) **10. County of Residence** _____ (Code)

11. Miles from Home to Lake ____ (1 = 0-25 mi., 2 = 26-100 mi., 3 = 101-250 mi., 4 = over 250 mi.)

12. Reason for Trip ____ (1 = Fishing, 2 = Vacation, 3 = Business, 4 = Other)

13. No. of days in Trip _____

Clerk: *"I would now like to ask you some questions about the value of your fishing trip. It is important to the TWRA to estimate the value of reservoir sportfisheries. The next two questions will be used only to calculate this economic estimate."*

14. How much money will you spend on today's fishing trip for things like gas, food, bait, lodging, guides, etc.? $_____

15. How much more than $*value above* would you be willing to pay to fish here per day, if for example, it just kept getting more and more expensive to make this trip? $_____

Tournament Section

16. Was the angler(s) fishing in a tournament during the interview? Yes_____ No_____

Form No. WR-0794 (Rev. 12-01)
RDA 14

TENNESSEE VALLEY AUTHORITY

Water Management

Enclosure 8

CHICKAMAUGA WHITE BASS STUDY 1990-1992
FINAL PROJECT REPORT

Prepared by
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September 1994

TABLE OF CONTENTS

Introduction 1

Methods 2
Field 2
Data Analysis 5

Results and Discussion 4
Cove Rotenone 4
Creel/Harvest Data 6
Population Estimate 7
Exploitation and Movement of Tagged White Bass 8
Larval Sampling 9

Conclusions 13

INTRODUCTION

White Bass (Morone chrysops) was one of four species of "special concern" in Chickamauga Reservoir as expressed by the Tennessee Department of Health and Environment (TDHE) and the Tennessee Wildlife Resources Agency (TWRA). The other three were white crappie, sauger, and channel catfish. Apparent declining numbers based on cove rotenone samples and declining harvest rates based on creel survey data prompted this investigation because of the potential for adverse impacts from operation of Sequoyah Nuclear Plant (SQN) and future operation of Watts Bar Nuclear Plant (WBN).

White bass (commonly referred to as "stripes") provide a popular year-round fishery on Chickamauga Reservoir as well as on most mainstream Tennessee River reservoirs. An active schooling species, white bass often appear in large numbers where food (commonly small gizzard and threadfin shad) is abundant and generally feed very near the surface. The white bass is an early spring spawner and mature adults congregate and run up tributary streams (and into tailwaters) to spawn. Males become mature and move to the spawning grounds about a month before the females which stay behind in deeper water not far from the spawning grounds. Spawning usually occurs in March or April over a gravelly or rocky bottom, often in a current, and without preparation of a nest. Fertilized eggs settle to the bottom where they become attached to rocks and hatch in about two days. Spawning is generally completed at any given locality over a period of five to ten days. Growth of white bass is rapid and the life span is seldom more than four years. Typical adult white bass in the Tennessee Valley average from one to three pounds in weight.

The objectives of this three-year investigation were to: (1) locate and sample primary spawning sites for white bass in Chickamauga Reservoir and estimate the population of spawning adult white bass; (2) determine spawning success by estimating abundance of drifting larvae below primary spawning sites; (3) determine exploitation rate and describe movement patterns from tags returned by fishermen; and (4) identify any factors that appear to influence white bass populations, including potential impacts from operation of SQN and future operation of WBN.

METHODS

Field

Tagging--Electrofishing and tagging white bass specifically for this three-year project began in spring of 1990, and continued through spring of 1992. Two electrofishing crews sampled for white bass in suspected spawning areas throughout Chickamauga Reservoir. Sampling was concentrated, however, in three areas where significant concentrations of white bass were known to occur during spawning; the fifteen-mile reach of the Tennessee River below Watts Bar Dam, in Sewee Creek (tributary to Tennessee River at TRM 524), and in the Hiwassee River between Hiwassee river mile (HRM) 12 and HRM 30 (Fig. 1). Other areas searched for possible spawning populations of white bass included Wolftever, Soddy, Possum, Sale, Richland, Mud, and Grasshopper Creeks. When only incidental specimens of white bass were collected in these tributaries, effort was then concentrated for the rest of the project in the three primary areas described above. Also, by agreement, all white bass captured by crews netting for the sauger population study below Watts Bar Dam in February and March of 1990 and 1991 were tagged and released.

Captured white bass were measured, weighed, sexed, spawning condition noted when possible, tagged with a numbered disc-type TWRA reward tag, and released. When previously tagged fish were recaptured on subsequent sampling trips, tag number and recapture location were recorded and fish were again released. Each of the major spawning areas was sampled once or twice each week during March and April.

During 1990, sampling began on March 6 and continued through April 24. Sampling during 1991 was from January 30 through May 13 and during 1992 from February 28 through April 23. Electrofishing and tagging were conducted using the same methods and in the same three locations as described for 1990.

Larval Sampling--When adult white bass collected by electrofishing appeared to be in spawning condition, sampling for drifting larvae was initiated. Two sample transects were located on the Tennessee River at TRM's 515.4 and 522.0 and two transects on the Hiwassee River at HRM's 6.0 and 14.3.

Six push-net samples each of 10 minutes duration were collected weekly at each of the four transects. Two samples were collected along each overbank and two in the river channel. One of the two samples consisted of towing the net from near bottom to the surface, equally sampling all strata during the ten-minute tow. For the other sample, the net was towed as near the bottom as possible during the entire tow.

Larval sampling in 1990 began on April 12 and continued through May 22 with a total of 168 samples collected. Sampling in 1991 began on April 9

and ended on May 20. All samples were preserved in 10 percent formalin and transported to the laboratory for sorting and identification. All Morone larvae less than 10 mm total length (TL) were identified only to genus since techniques have not been developed to distinguish between larval white and yellow bass (Morone mississippiensis).

Cove Rotenone - Data from annual cove rotenone samples on Chickamauga Reservoir were used to describe trends in numbers and biomass of white bass through time. TVA has conducted cove rotenone sampling on Chickamauga Reservoir as part of both preoperational and operational nonradiological monitoring programs since 1970 to determine trends in standing stock (numbers/ha and kg/ha of game, prey, and commercial fish species). Cove rotenone data provide estimates of reproductive success, year-class strengths, and relative fish stock sizes in a given year. In 1970, 12 coves were sampled. The sampling regime was standardized in 1971 with five coves (Figure 1) sampled each year during late August or September. Standardized rotenone field procedures are summarized in TVA (1986a).

Creel Surveys

Fishing pressure and catch rate data for white bass in Chickamauga Reservoir were obtained from TWRA. Reservoir-wide creel surveys have been conducted by TWRA since 1972, however, because of the methodology used to store and analyze the data from 1972 through 1976, only data from 1977 through 1992 were included in this report. Procedures have followed a design by Dr. D. W. Hayne of the Institute of Statistics at Raleigh, North Carolina. These procedures are described in more detail in TVA (1986a).

Data Analysis

Population estimates for the major spawning areas in Chickamauga reservoir were generated using the Thompson and Juday mark/recapture multiple-census method (Lackey 1974). Data from tag returns by fishermen were summarized to describe basic movement patterns for adult white bass following spawning migrations. Exploitation rate was also estimated by calculating percentage of the total number of tagged white bass that were caught by fishermen (Lackey and Hubert 1977). Historical cove rotenone and TWRA creel survey data were analyzed for trends in annual population densities and fisherman harvest rates.

Larval data were expressed as numbers per 1,000 cubic meters of water filtered to estimate weekly densities of *Morone* larvae. Length-frequency data were plotted to describe length of spawning period based on occurrence of newly-hatched yolk-sac larvae.

RESULTS AND DISCUSSION

Cove Rotenone

Although cove rotenone sampling is not considered a good indicator of the standing stock of adult white bass in reservoirs, it does provide valid data for young-of-year to estimate reproductive success and potential year-class strength. Densities of young-of-year white bass in Chickamauga Reservoir have fluctuated considerably since rotenone studies began in 1970, when the highest number per hectare (47.3) during the

period of record (Figure 2) occurred. During 1985-88 numbers of young-of-year white bass increased substantially, with numbers declining to pre-1985 levels in 1989. Results of five cove samples collected each year during 1990 through 1992 estimated densities of 9.8, 13.0, and 0.3 young-of-year white bass per hectare respectively (Table 1). Annual densities of young-of-year white bass in cove rotenone samples are generally not reflected in densities of intermediate fish the following year. This may be related to survival rates or may result from intermediate and adult white bass not being adequately sampled by cove rotenone. All size classes of yellow bass in rotenone samples have shown a statistically significant increasing trend since 1971 and the number of young-of-year recorded in 1990 (730/ha) was the highest during the period of record. Numbers of yellow bass declined during 1991 and 1992 which could have had a positive effect on white bass year-class strength and survival due to reduced competition.

Creel/Harvest Data

Fisherman harvest rate data collected by TWRA from 1977 through 1992 indicated a relatively stable catch rate for white bass with the exception of 1988 (Figure 3) when catch rate was up considerably. Total numbers and biomass of white bass harvested from Chickamauga Reservoir (Figure 4) were low during 1984 through 1986, increased in 1987, and have remained high through the period of this investigation. However, the estimated (TWRA) number of white bass harvested during 1990 (40,945) was greater than the total population estimate of spawning adults (19,206) in 1990 determined from this study, implying that one of the two techniques is overestimating or underestimating either population or harvest. During 1990, the total number of white bass tagged was only 28 and 26

percent respectively of the totals tagged in 1991 and 1992. This could have resulted in an underestimate of the population during 1990. The reverse was true during 1991 when the population estimate increased to 106,438 and the estimated number harvested was 62,056. The two values were closer in 1992 with the population estimate of 97,193 and the number harvested estimated at 84,771 which was the highest harvest estimate ever recorded. This increased harvest was probably a reflection of the increased young-of-year production observed in cove rotenone samples during 1985 through 1988.

A majority of the white bass harvest occurs during the spring spawning migration to the Hiwassee River, Sewee Creek, and the Tennessee River below Watts Bar Dam. It is possible that expansion of numbers of white bass creeled from these limited areas and this limited time frame to the entire reservoir and complete year overestimated the total harvest. Conversely, the population estimate includes only fish which migrate to the primary spawning areas. Any white bass which do not migrate to these areas would not be included in the population estimates.

Population Estimate

Tagging efforts during 1990 through 1992 resulted in 13,100 white bass tagged and released in Chickamauga Reservoir (Table 2). During the tagging periods, 628 marked fish were recaptured. Numbers tagged by year were: 1990 - 1,540; 1991 - 5,560; 1992 - 6,000.

To estimate the population of spawning adult white bass in Chickamauga Reservoir, mark-recapture data were separated by area assuming that the fish collected in the Hiwassee River are a separate population (during

spawning) from those collected below Watts Bar Dam and in Sewee Creek (Figure 1). Data from the latter two areas, due to proximity, were combined to obtain an upper reservoir population estimate. The Thompson and Juday mark and recapture technique estimated a total of 19,206 adult white bass in Chickamauga Reservoir in 1990. During 1991 and 1992, estimates indicated adult populations of 106,438 and 97,193 respectively.

Exploitation and Movement of Tagged White Bass

Rates of exploitation based on the number (percentage) of tagged white bass returned by fishermen during this investigation were: 1990 - 20.0 percent; 1991 - 15.5 percent; 1992 - 15.4 percent. By comparison, an annual harvest of approximately 10 percent of a white bass population was estimated by return records of a tagging study in Lake Texoma, Oklahoma (Bonn 1956).

Analysis of tag returns by fishermen for which catch locations could be determined was used to show the dispersal pattern of adult white bass following spawning. White bass exhibited considerable inter-reservoir movement (Table 2) based on 5.6 percent of returned tags from fish caught downstream in Nickajack Reservoir and 2.3 percent from fish caught upstream in Watts Bar Reservoir. Four tagged fish travelled downstream through two dams (locks) and were caught in Guntersville Reservoir. One of these fish tagged in 1990 in Sewee Creek moved downstream 171 river miles and passed through two dams over a period of only 66 days. One fish tagged at TRM 520.6 and caught 13 days later (April 23, 1990) at mile 19 on the Hiwassee River was the only observation of intermixing of the two spawning populations during the tagging period. In a similar

study (Myhr 1971) on Dale Hollow Reservoir in 1970, 2,288 white bass were marked and released in two tributary spawning areas, and 94 percent of those recaptured (16) returned to the same spawning area the following year.

Information from tags returned by fishermen indicated a rapid dispersal reservoir-wide after leaving the spawning areas. As would be expected, the general pattern of movement for tagged fish caught in Chickamauga Reservoir was downstream since all fish were tagged either in the upper ten miles of the reservoir (including Sewee Creek), or in the Hiwassee River which flows into the mid-point of Chickamauga Reservoir. Since several white bass were observed to move downstream out of Chickamauga Reservoir, it is probable that they also move from upstream reservoirs into Chickamauga Reservoir. This phenomenon has also been observed for sauger tagged below Watts Bar Dam during 1986 through 1990 (Hickman et al. 1989).

Results of this study indicate a healthy spawning population of white bass in Chickamauga Reservoir. TWRA creel survey data showed that annual catch rate by fishermen in Chickamauga increased for three successive years (1987-89), evidence of a viable and perhaps expanding fishery.

Larval Sampling

Tow-net samples were collected weekly for seven weeks during 1990 (April 12 - May 22) and 1991 (April 9 - May 20). During 1990, 168 larval samples contained 76,686 larval fish (all species) and 3,690

unidentifiable fish eggs. Ninety percent of the larvae and 81 percent of the eggs were collected from the two Hiwassee River transects. Morone larvae (including white and yellow bass) were also more abundant in the Hiwassee River than from the two transects in upper Chickamauga Reservoir (Table 3). At HRMs 6 and 14, 623 and 858 Morone larvae were collected, respectively. Total Morone larvae collected from TRMs 515 and 522 were 97 and 89, respectively. Morone larvae over ten millimeters (mm) total length (TL) which could be identified to species consisted of five yellow bass at TRM 515, and seven yellow bass and one white bass at TRM 522.

During the first three sample periods in the Hiwassee River, larval Morone densities were greater at the upstream transect (HRM 14.3), but the reverse was true during the last four periods. No trend was evident between densities of Morone larvae at the two transects on the Tennessee River. The greatest density of 454 Morone larvae/1000 m^3 was recorded on April 19 at HRM 14.3 when the mean water temperature was 16.0°C.

Sampling in 1991 collected 48,468 larvae and 3,078 fish eggs. Morone larvae were again collected during all seven sample periods. The greatest density of Morone larvae was observed on April 24 at HRM 6 at a water temperature of 16.6. Numbers of larval Morone were similar between the two stations in both the Hiwassee and Tennessee Rivers. A total of 3237 Morone larvae was collected from both Hiwassee River stations compared to 722 from both stations on the Tennessee River. Larval Morone 10 mm or greater which could be identified to species, consisted of 72 yellow bass and only 2 white bass. If this ratio is representative of

all Morone larvae collected, yellow bass are produced in far greater numbers than white bass and likely compete significantly for both food and habitat.

Larval densities of Morone (including white and yellow bass) sampled downstream of both major spawning areas indicated at least a seven-week period of occurrence during April and May for drifting larvae less than 10 mm TL. Weekly densities indicated much higher density of Morone larvae in the Hiwassee River than in the Tennessee River/Sewee Creek spawning area. Seasonal densities of Morone larvae recorded during preoperational monitoring at Watts Bar Nuclear Plant (WBN) from 1976 through 1985 (TVA 1986b) were similar to the weekly densities observed at the two Tennessee River transects during this study. Preoperational samples, however, were collected at TRM 528 just below WBN which is upstream of the area where it has been determined that most white bass spawn. A large percentage of the Morone larvae collected at TRM 528 during preoperational monitoring (particularly those greater than 6 mm TL) are presumed to have resulted from spawning above Watts Bar Dam and subsequent dam passage.

Spawning success, based on densities of Morone larvae collected below the two major spawning sites, appeared adequate for year-class success in 1990 and 1991 relative to historical data collected near SQN and WBN. Some degree of competition exists between white and yellow bass for spawning habitat and probably food resources at one or more stages in their life history. This was evident during electrofishing on white bass

spawning areas when large numbers of yellow bass also in spawning condition were usually encountered. Yellow bass are not, however, reported to be strictly migratory spawners.

Potential Plant Effects

In terms of potential impacts to white bass from operation of SQN and future operation of WBN, results of this investigation have not indicated any stage in the life history of white bass likely to be affected by nuclear plant operation. Movement of white bass past SQN during and after the spawning migration is apparently not impeded by SQN operation. Recapture of tagged white bass by fishermen in the vicinity of SQN did not indicate an attraction that would result in overharvest or a significant disruption of adult migration to the spawning areas. Although white bass concentrate during late winter and spring in the general vicinity of WBN, impacts to the spawning process would not be expected from normal plant operation since heated discharges are projected as less than 5.0 m^3/s representing only 0.6 percent of reservoir flow (long-term average release). Significant entrainment of white bass larvae in WBN makeup cooling water is unlikely due to the small amount of water withdrawn and the fact that the primary spawning areas identified in this investigation are located downstream of the plant. During this study, male and female white bass in full spawning condition were not collected between WBN and Watts Bar Dam as they were

downstream at the Hunter Shoals area. In terms of potential entrainment at SQN, larvae drifting from Hunter Shoals, Sewee Creek and the Hiwassee River should mature to a stage significantly less vulnerable to entrainment by the time they reach SQN. Average estimated entrainment of Morone larvae (including yellow bass) at SQN from 1980 through 1985 was 2.6 percent of the larvae passing the plant (TVA 1986a) .

CONCLUSIONS

Extensive electrofishing effort in streams tributary to Chickamauga Reservoir and in the fifteen mile reach of the Tennessee River below Watts Bar Dam during spring of 1990 identified three primary spawning sites for white bass: the Hiwassee River; Sewee Creek; and Hunter Shoals in the Tennessee River eight miles below Watts Bar Dam. Mark and recapture of adult white bass in the three primary spawning areas during 1990 through 1992 provided population estimates of 19,206, 106,438 and 97,193 for the three respective years. Exploitation rates for white bass in Chickamauga Reservoir calculated from tags returned by fishermen were 20.0, 15.5, and 15.4 percent during 1990 through 1992 respectively. These harvest rates are considered normal based on a similar study reported in the literature. Following spawning, white bass dispersed rapidly throughout Chickamauga Reservoir based on catch location data from fishermen returned tags. Approximately eight percent of tagged white bass caught by fishermen had moved out of Chickamauga Reservoir with over twice as many traveling downstream as upstream.

Sampling for drifting Morone larvae during 1990 and 1991 revealed much higher densities in the Hiwassee River than in the Tennessee River/Sewee Creek spawning area. Larger larvae which could be identified to species indicated that a majority of drifting larvae were yellow bass which suggests that this species may compete heavily with white bass larvae for food and space at this stage of their life history. The current status of the white bass population in Chickamauga Reservoir as determined by this investigation suggests an increase in year-class strength, numbers harvested and harvest rate has occurred since 1986. An estimate of the number of spawning adults together with TWRA's estimate of fisherman harvest rate and total harvest for 1988 through 1992 were not indicative of a "stressed" or declining population. It seems likely that competition from yellow bass could be a major factor limiting the population of white bass in Chickamauga Reservoir. Results of this investigation suggest that no life history stage of white bass in Chickamauga Reservoir is being affected by operation of SQN or will be affected by future operation of WBN.

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Table 1. Numbers and biomass (kg) per hectare of each size group of white bass in cove rotenone samples, Chickamauga Reservoir, 1970-92.

	Young-of-Year		Intermediate		Adult		Total	
	Numbers	Biomass	Numbers	Biomass	Numbers	Biomass	Numbers	Biomass
1970	47.30	0.20	0.12	0.01	0.00	0.00	47.42	0.21
1971	4.07	0.08	0.00	0.00	0.00	0.00	4.07	0.08
1972	3.30	0.06	0.27	0.02	0.00	0.00	3.57	0.08
1973	13.96	0.15	1.33	0.07	1.12	0.22	16.42	0.44
1974	2.61	0.04	0.00	0.00	0.85	0.16	3.46	0.20
1975	0.00	0.00	0.00	0.00	0.27	0.06	0.27	0.06
1976	3.86	0.08	1.40	0.10	0.47	0.06	5.72	0.24
1977	35.48	0.38	2.79	0.16	0.00	0.00	38.27	0.54
1978	11.03	0.03	0.00	0.00	0.00	0.00	11.03	0.03
1979	3.16	0.05	0.00	0.00	0.00	0.00	3.16	0.05
1980	11.25	0.05	0.00	0.00	0.00	0.00	11.25	0.05
1982	1.43	0.03	0.48	0.03	0.48	0.08	2.38	0.14
1983	0.00	0.00	0.00	0.00	1.46	0.18	1.46	0.18
1984	0.00	0.00	0.00	0.00	1.82	0.32	1.82	0.32
1985	37.27	0.79	5.91	0.33	0.44	0.09	43.63	1.20
1986	21.34	0.72	172.25	11.70	1.82	0.25	195.44	12.66
1987	16.04	0.25	1.78	0.09	0.00	0.00	17.82	0.35
1988	29.37	0.33	5.12	0.27	1.86	0.28	36.35	0.88
1989	2.09	0.04	0.00	0.00	0.00	0.00	2.09	0.04
1990	9.79	0.20	13.79	0.79	0.34	0.05	23.92	1.04
1991	13.01	0.19	0.00	0.00	0.00	0.00	13.01	0.19
1992	0.34	T	0.00	0.00	0.00	0.00	0.34	T

Table 2. Tagging results, exploitation rates and population estimates for white bass in Chickamauga Reservoir during 1990 through 1992.

	1990	1991	1992
NUMBER TAGGED	1,540	5,565	6,000
NUMBER RECAPTURED	73	144	413
RETURNS BY FISHERMAN	315	861	746
EXPLOITATION RATE	20%	15.5%	15.4%
POPULATION EST.			
TN.R./SEWEE CR.	7,380	42,715	54,723
HIWASSEE	14,488	68,730	47,406
COMBINED	19,206	106,438	97,193
INTER-RESERVOIR MOVEMENT			
NICKAJACK	22	46	20
GUNTERSVILLE	1*	3	0
WATTS BAR	1	16	11

*171 MILES (2 DAMS/LOCKS) 66 DAYS

35061

Table 3. Densities (number per 1,000 m^3) of larval Morone (white and yellow bass) collected at four transects in the Hiwassee and Tennessee Rivers during April and May 1990 and 1991.

	1990 TRANSECT			
	HRM		TRM	
Sample date	6.0	14.3	515.4	522.0
April 12	63.2	336.9	5.9	2.5
April 19	307.4	453.5	22.0	52.4
April 25	18.9	51.9	16.9	38.4
May 3	33.1	9.2	16.0	5.3
May 9	188.6	40.6	21.8	11.2
May 16	34.4	32.8	8.2	8.3
May 22	65.6	27.7	13.0	17.1

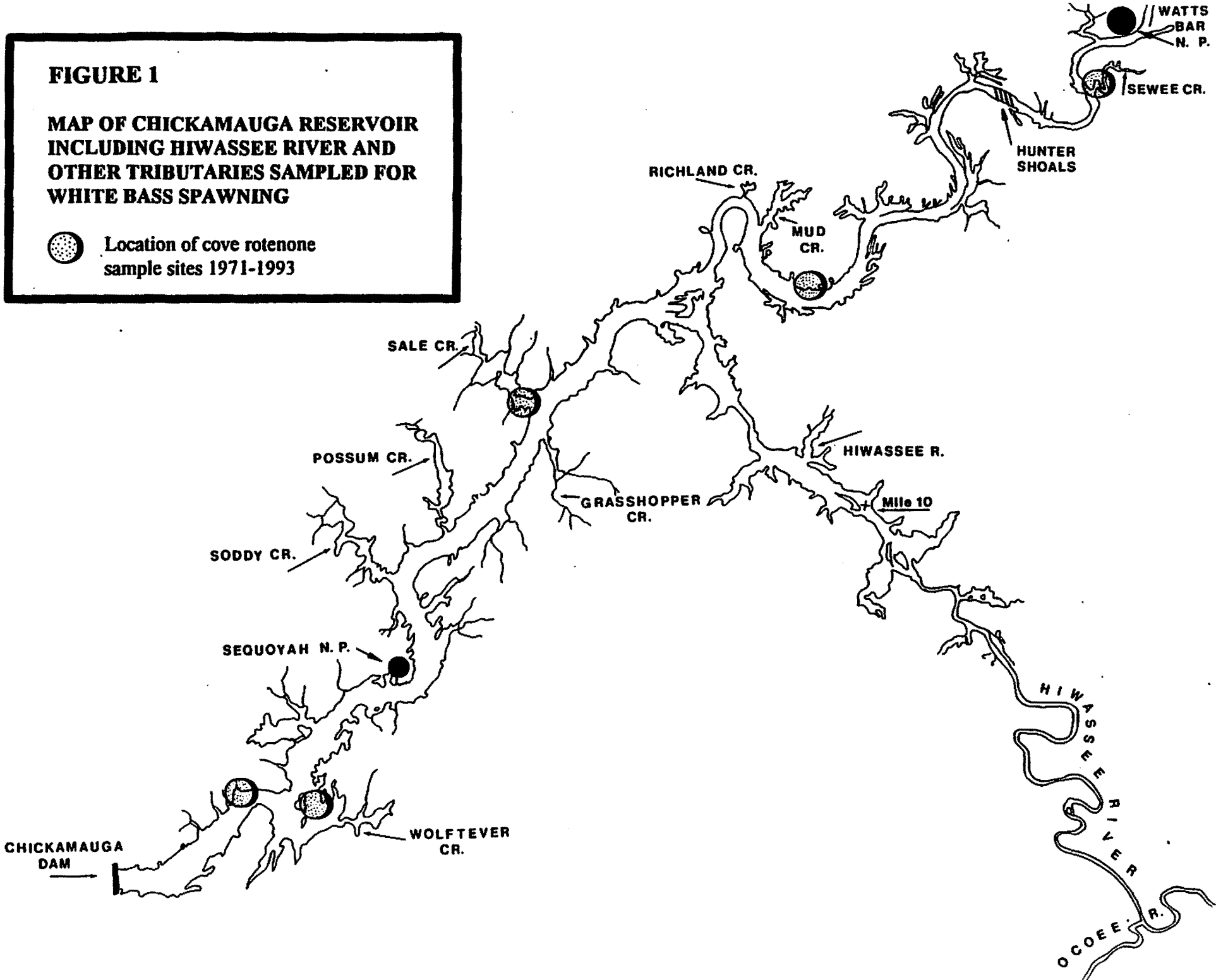
	1991 TRANSECT			
	HRM		TRM	
Sample date	6.0	14.3	515.4	522.0
April 9	245.1	4.6	28.3	40.6
April 18	181.4	79.0	67.3	46.2
April 24	1198.6	621.9	104.9	63.2
April 30	197.9	482.2	124.7	62.8
May 8	80.5	288.5	38.4	23.1
May 14	18.6	46.7	27.6	125.0
May 20	160.5	21.4	36.6	41.1

34531

FIGURE 1

MAP OF CHICKAMAUGA RESERVOIR INCLUDING HIWASSEE RIVER AND OTHER TRIBUTARIES SAMPLED FOR WHITE BASS SPAWNING

Location of cove rotenone sample sites 1971-1993



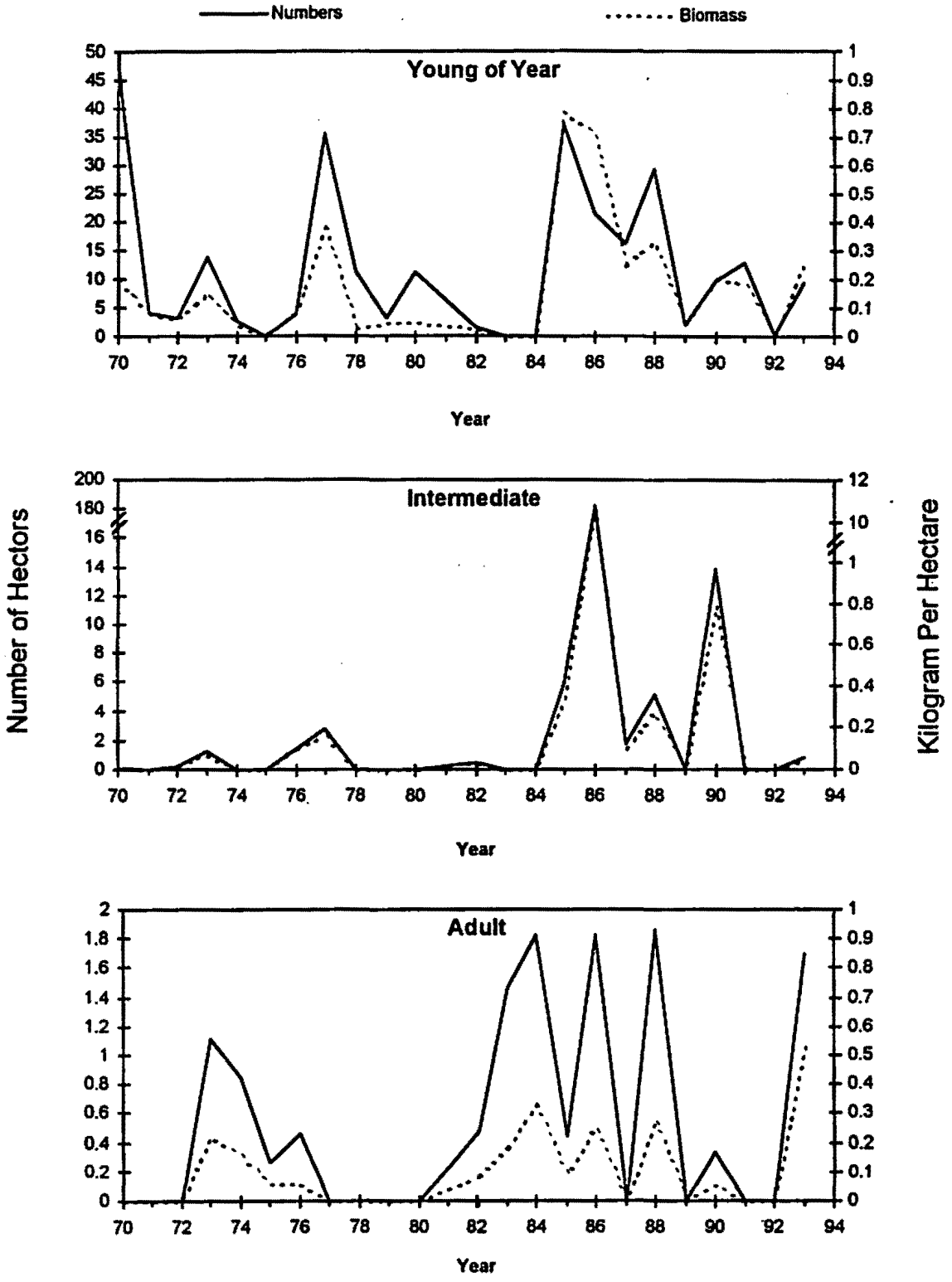


Figure 2. Number and biomass (per hectare) of white bass by age group estimated from cove rotenone samples in Chickamauga Reservoir, 1970-1993.

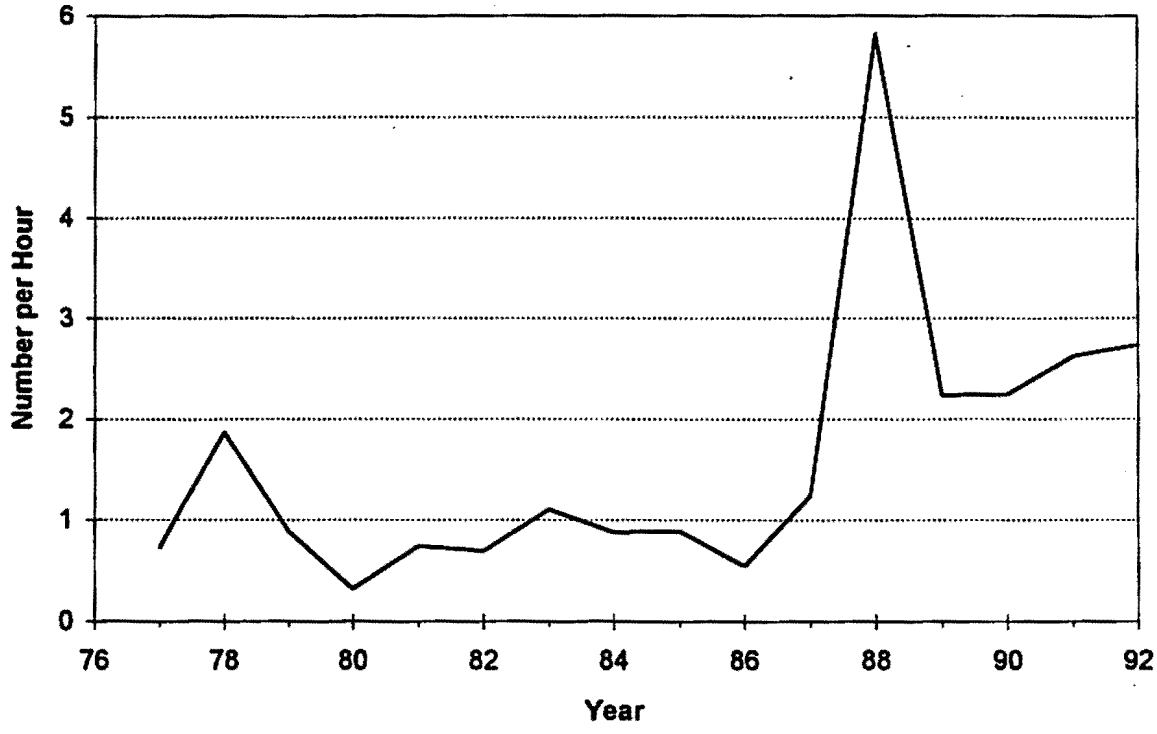


Figure 3. White bass harvest rate for Chickamauga Reservoir, 1977-1992.

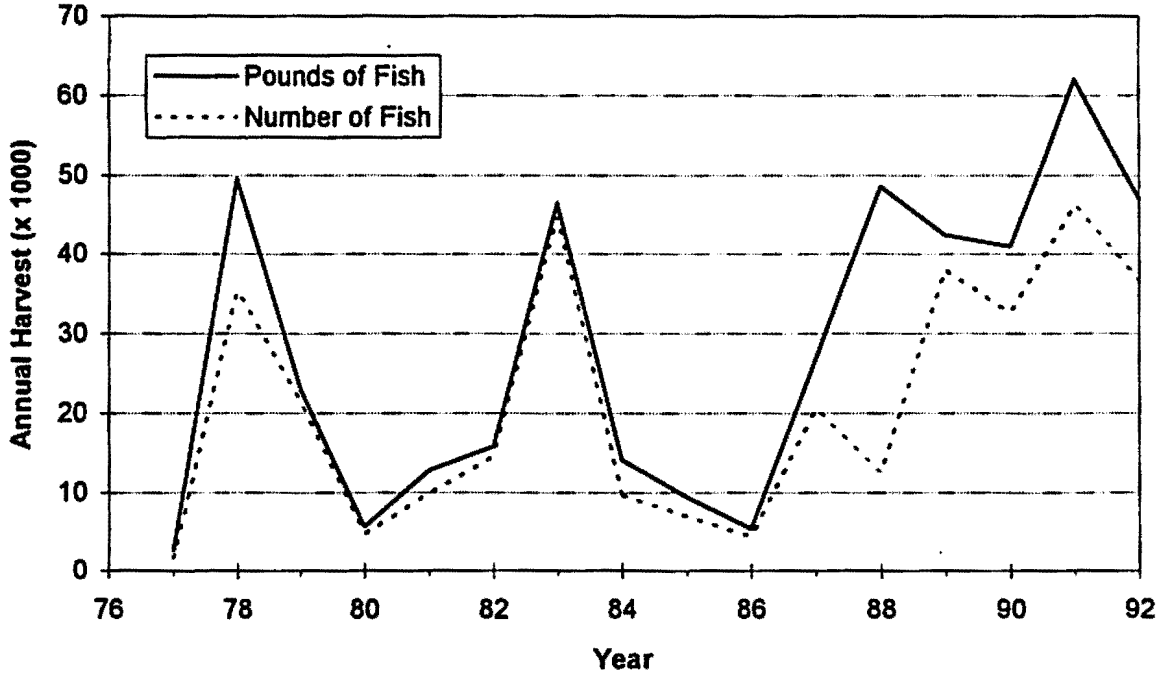


Figure 4. Total number and biomass of white bass harvested from Chickamuaga Reservoir, 1977-1992.

7070

TENNESSEE VALLEY AUTHORITY

Resource Group
Water Management

Enclosure 9

CHICKAMAUGA RESERVOIR SAUGER INVESTIGATION

1993-1995

FINAL PROJECT REPORT

Prepared by

Gary D. Hickman and Johnny P. Buchanan

INTRODUCTION

The Tennessee Valley Authority (TVA), in cooperation with the Tennessee Wildlife Resources Agency (TWRA), initiated in 1986 an intensive program to determine the status of the sauger (*Stizostedion canadense)* population in upper Chickamauga Reservoir and to identify potential impacts of operation of Sequoyah (SQN) and Watts Bar (WBN) Nuclear Plants on this important sport fish. This initial investigation (1986 through 1991) documented annual population densities, spawning location, spawning habitat characteristics, pre- and post-spawn movement patterns, year-class strengths, and growth rates (Hevel 1988, Hickman et al. 1989, Hickman et al. 1990, and Hevel and Hickman 1991). A major conclusion was that poor reproductive success resulted in an extreme decline in the number of sauger in Chickamauga Reservoir. Low flows and unstable water temperatures during the sauger spawning period were determined to be the limiting factors. As a result, TWRA stocked 191,000 sauger fingerlings in Chickamauga Reservoir during May of 1990 to supplement the population.

A separate modeling study (Yeager and Shiao 1992), based on the results of the initial investigation, addressed flow levels necessary to enhance sauger reproductive success. It was proposed that optimum sustained instantaneous minimum flow releases of 8,000 cfs from Watts Bar Dam, coinciding with the documented sauger spawning period (April) in

the reservoir, would enhance the sauger population in Chickamauga Reservoir. It was further suggested that instantaneous minimum flow releases of 4,000 cfs would provide for at least a maintenance level of sauger spawning success in the tailwater. During April 1992 a minimum flow of 4,000 cfs was maintained through special releases. In April of 1993 and 1994, rainfall was adequate to maintain 8,000 cfs minimum flow without the need for special releases.

In a separate issue, TVA requested an alternative thermal limit for SQN discharges in 1989 (Wrenn et. al. 1989). Beginning in 1993, the allowable ΔT increase from SQN discharges during November through March was changed from a maximum instantaneous 3°C to a maximum instantaneous 5°C. Kay and Buchanan (1995) reported results of sampling in the vicinity of the SQN diffuser (Tennessee River Mile 483.6) during 1993-1994 while the plant was operating under the new thermal variance. They found no attraction or avoidance by sauger (or any other species) to the thermal plume, and concluded no demonstrable impact from the thermal variance on Chickamauga Reservoir fish populations in the vicinity of SQN.

The Tennessee Division of Water Pollution Control (TDWPC) requested, along with the permit modification, a resumption of sauger population monitoring during 1993-1994. The objectives of the renewal of the Chickamauga Reservoir sauger investigation (during the 1993 and 1994 spawning seasons) were to evaluate the impact of the special release regime on sauger spawning success, assess contribution of the TWRA stocking of juvenile

sauger in 1990, and determine effects of the modified winter thermal variance for SQN on the overall Chickamauga Reservoir sauger population. To meet these objectives, mark and recapture field sampling for sauger was conducted below Watts Bar Dam during February through April in 1993 and 1994 for the following specific purposes: 1) to estimate number of adult sauger in the spawning population below Watts Bar Dam; 2) to evaluate relative strengths of 1990, 1991, and 1992 year-classes to estimate success and contribution of the 1990 stocking by TWRA and effects of improved April releases from Watts Bar Dam on sauger spawning success; 3) to estimate inter-reservoir movement of sauger as well as exploitation rate by fishermen.

METHODS

Sampling in 1993 began on February 16 and continued until May 6 below Watts Bar Dam located at Tennessee River Mile (TRM) 529.9 using both standard 38.1 mm (1 1/2 inch) and experimental bar mesh gill nets. Experimental nets consist of five 6.1 meter panels (25.4, 38.1, 50.8, 63.5, and 76.2 mm bar mesh size). Nets were set in the Watts Bar Dam spilling basin perpendicular to the dam or lock walls. When river levels dictated spilling water through the flood gates, nets were set in the navigation lock approach channel to avoid high flow conditions. When sauger were judged ready to spawn, netting was initiated at the Hunter Shoals spawning area (TRM 521), unless high flows prohibited effective sampling. Nets were fished at night when sauger are typically most active.

Sampling frequency was from two to four nights per week depending on flow conditions. During 1994, sampling was conducted from March 14 through May 5.

Each sauger captured that was not in a weakened condition was tagged with a numbered reward tag. Data recorded from each fish included total length (mm), weight (g), sex, tag number, and if the fish was a recaptured individual. Spawning condition (e.g., "free flowing", "spent", etc.) was also noted for each fish when possible. Other species of fish captured in gill nets were counted and recorded. Scales and otoliths from any sauger killed or injured were collected for age determination and to supplement length-frequency data used in measuring year-class strength.

Creel data from Chickamauga Reservoir collected by TWRA from 1986 through 1995 were made available for comparison of fisherman catch rates among years. These data were used in conjunction with population estimates to monitor size of year classes produced under various conditions during the spawning period each year.

DATA ANALYSIS

Scale and otolith data were analyzed using the Lee method to back-calculate total lengths at each age prior to capture. Sauger population estimates were calculated using the Thompson and Juday mark and recapture census method (Lackey 1974). This estimate of sauger densities in Chickamauga Reservoir provided the best available measure of

abundance although one assumption required for this method (i.e., a closed system) was not met. This multiple census method of estimation is based on the formula:

$$N = \frac{\Sigma C_t m_t}{\Sigma r_t}$$

where N = estimated population size,
C_t = total fish captured on day t,
m_t = total number of marked fish at the start of day t, and
r_t = number of recaptures in the sample C_t.

RESULTS AND DISCUSSION

Netting/Tagging

A total of 4,053 fish (10.5 per net-hour) including 22 species and two hybrids (Table 1) was captured during 386.4 hours of gill netting from February 16 to May 6, 1993, in upper Chickamauga Reservoir. Channel catfish (2.36/hr), sauger (2.27/hr), and white bass (1.48/hr) were the most abundant species captured. A total of 876 sauger was collected, of which 819 were measured, weighed, tagged, and released. The remainder were either dead or appeared stressed upon removal from the nets.

During 1994 (March 14 through May 5), 4,348 fish including 25 species and two hybrids were captured for a catch rate of 11.58/hr (total effort of 375.6 hours). Sauger (2.41/hr), blue catfish (2.02/hr), and yellow bass (1.84/hr) were most abundant in the catch. A total of 905 sauger was collected of which 786 were tagged and released. Tagged sauger recaptured during netting totaled 144 and 26 during 1993 and 1994, respectively.

Length Frequency/Age-Class Composition

Length frequency for sauger collected during 1993 (Figure 1) indicated only 1.7% (15) of the population were yearlings, suggesting another poor year class was produced during 1992. The percentage of yearling sauger collected during 1986 through 1990 was also extremely low, varying from 0.8% of the population in 1989 to 15.0% in 1990 (Hevel 1988, Hickman et. al. 1989, Hickman et. al. 1990). The percentage of yearling sauger collected in 1991 increased to 71%; however, this was most likely a result of the stocking of 191,000 fingerling sauger by TWRA in 1990 (Hevel and Hickman 1991). Yearling sauger participate in the annual spawning migration, but females and most males are not sexually mature until age two.

If water flow and temperature requirements during the spawning period were suitable, it was anticipated that fingerling sauger stocked during 1990 would produce a strong year class during 1992, the first year the released fish would be sexually mature. But 1993 sampling results were cause for concern as few yearlings were collected. An instantaneous minimum discharge from Watts Bar Dam of 4,000 cfs was maintained during April, 1992 and, as required for optimum spawning conditions, the water temperature increased gradually during the 1992 spawning period. It is apparent from 1993 sampling results that an instantaneous minimum discharge rate of 4,000 cfs may be insufficient to meet sauger spawning requirements at the Hunter Shoals site.

During 1994, the percentage of sauger yearlings collected increased to 89.5% (810 individuals, also an increase) indicating a successful spawn and survival during 1993 (Figure 1). Numbers of adult sauger two years and older were much lower in 1994 (95) than 1993 (860). This is indicative of the relatively short life span of sauger in Tennessee River reservoirs (maximum of 4 or 5 years with most surviving for only 3 years) as noted by Hackney and Holbrook (1971) and Hickman et. al. (1989). The high percentage of yearlings observed in 1994 could likely be attributed to enhanced spawning success and survival due to the instantaneous minimum discharge of 8,000 cfs from Watts Bar Dam during April 1993 (optimum reported by Yeager and Shiao, 1992).

Population Estimate

Populations estimates of sauger in Chickamauga Reservoir declined progressively (Figure 2) over the period 1986 through 1990 but increased in 1991 (Hevel and Hickman, 1991). The previously mentioned TWRA stocking of 191,000 fingerling sauger in 1990 was probably responsible for the 1991 increase. Sampling was not conducted during 1992. Based on 1993 tagging/recapture data, the estimated number of adult sauger in Chickamauga Reservoir was 2,241. Only 37 yearling sauger (1992 year class) were estimated to be in the reservoir in spring 1993. Data collected during 1994 provided an estimate of 13,833 sauger, over six times the number estimated during 1993. The majority of these fish (89.5%) were yearlings from the 1993 year class.

Creel Results

Estimated hours spent fishing for sauger from 1986 through 1995 (TWRA 1987 - 1996) generally follow sauger population estimates (Table 2). Effort expended was high in 1986 when the population estimate was over 18,000 catchable fish. Effort declined through 1989 along with the population. Fishing pressure increased slightly in 1990 even though the population was estimated to be at its lowest point during the sample period. Sauger fishing effort rebounded in 1991 as the population increased to approximately 8,000 individuals. In 1993, effort again declined somewhat along with the sauger population, but established a new high in 1994 as numbers of catchable sauger increased. Fishing pressure for sauger again increased in 1995; however, comparison with densities was not possible as population sampling was not conducted during 1995.

Catch rate of sauger (per hour of fishing) also generally followed population estimates, except for a relatively high catch rate for 1990 (Table 2). Poor conditions (unusually high water releases) during the winter-spring 1990 sampling period resulted in only 34 sauger tagged and 9 recaptured. Hevel and Hickman (1991) suggested that the abnormal flow conditions reduced sauger sampling efficiency and may have altered typical distribution patterns of sauger. The population estimate of only 78 individuals was likely inaccurate. Based on the 1991 estimated population of adult sauger in Chickamauga Reservoir of 2,036, it is evident sauger densities were higher than reported in 1990, but remained low compared to the 1986 estimated adult population of 17,058.

The high fishermen catch rate of sauger in 1995 (0.98 fish/hour), in conjunction with high fishing pressure estimates that year (Table 2), indicates a significant year class was produced in 1994. Harvest rate was low suggesting the majority of the catch was made up of juvenile sauger. Water releases through Watts Bar Dam during April 1994 were in excess of the 8,000 cfs target instantaneous minimum flow necessary to maximize suitable conditions for sauger spawning. The 1995 creel catch rate indicates a large 1994 year class was produced.

Exploitation Rate and Movement

Recaptures by fishermen of sauger tagged below Watts Bar Dam revealed an exploitation rate of 9% in 1993 and 11% in 1994. Exploitation rate estimates were not adjusted for tag loss or non-reporting. These results are somewhat higher than those obtained during the earlier years of the study which ranged from 5% to 8% of the population being harvested each year from 1986-1992. These rates of harvest are far below the normal annual exploitation of walleye in Michigan reported by Schneider (1978). Snow (1978) suggested an exploitation rate of 55% would not adversely impact northern pike populations in Wisconsin, and Anderson (1974), Graham (1974), and Ming (1974) considered an exploitation rate of up to 40% allowable to maintain a quality fishery for largemouth bass. It is evident that fishing mortality has very little impact on the sauger population in Chickamauga Reservoir.

Based on tag returns by fishermen, movement of sauger through the upstream dam was again documented during 1993 and 1994. Seven of the 77 tagged sauger (9%) returned

by fishermen with location of capture information were caught above Watts Bar Dam in 1993. In 1994, only 2 of 65 tagged sauger (3%) returned by fishermen with location of capture were recaptured from Watts Bar Reservoir. These rates fall within the range previously observed (3 to 15%) from 1986-1989 (Hevel 1988, Hickman et. al. 1989, and Hickman et. al. 1990). Other researchers have also noted the occurrence of sauger traversing TVA locks (Cobb 1960, St. John 1990, and Pegg 1994). Hevel (1988), Hickman et. al. (1989), and St. John (1990) suggested that this inter-reservoir movement of sauger indicates spawning sites located in one reservoir contribute to sauger populations in other reservoirs throughout the Tennessee River. Pegg et. al. (1996) concluded that impoundments on the Tennessee River are only partial barriers to migration, and the interdependence of these populations is unknown.

There was no evidence of sauger or fishermen concentration in the vicinity of SQN based on fishermen recaptures or on the special thermal variance creel study done at SQN from 1993-1994 (Kay and Buchanan 1995). No tagged sauger were reported from this area of Chickamauga Reservoir in 1993, and only 2 of 65 recaptured sauger (3%) with catch location information were taken there in 1994. As concluded by Kay and Buchanan (1995), the thermal variance for SQN allowing a 5°C ΔT during November through March 1993 and 1994 had no impact on sauger distribution or migration.

Conclusions

Comparison of 1993 and 1994 sauger population sampling results with the special water releases through Watts Bar Dam revealed that an instantaneous minimum discharge of 8,000 cfs was sufficient to provide conditions for successful reproduction of sauger. The high 1995 fishermen catch rate of juvenile sauger, following a year when instantaneous minimum releases during April through Watts Bar Dam exceeded 8,000 cfs, support this conclusion. However, it is apparent that an instantaneous minimum discharge rate of 4,000 cfs may be inadequate to maintain a viable sauger population. The release of 191,000 fingerling sauger in 1990 by TWRA for an approximate cost of $30,000.00 (Mike Smith, TWRA Eagle Bend Fish Hatchery, personal communication) proved to be very effective in establishing a year class. It is apparent that in years when adequate flows can not be maintained during the sauger spawning period, supplemental stocking could substitute for natural reproduction.

The thermal variance from 3°C to 5°C ΔT during November through March at SQN was determined to have no adverse impact on the sauger population in Chickamauga Reservoir. The sauger population was at a low density in 1993 prior to implementation of the thermal variance. In 1994, after the variance was implemented in November 1993, the resident sauger population was estimated at its highest level since 1986. No attraction to, or avoidance of, the SQN diffuser area was documented for fishermen or sauger based on a SQN creel survey and tags returned during 1993 and 1994. Sauger exploitation rate also remained low after the variance was implemented.

During the nine year history of the Chickamauga sauger project, numerous objectives were realized. The spawning site for sauger was identified, annual sauger population estimates were developed, instantaneous minimum flow of 8,000 cfs and gradually increasing water temperatures during the spawning period were found to be critical factors in sauger reproductive success, stocking of fingerlings was determined to be an effective means of producing a good year class when conditions are unsuitable for natural reproduction, and determination of no impacts from a thermal variance at SQN was accomplished.

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Table 1. Species list, number collected, and catch per hour during winter-spring gill netting in Chickamauga Reservoir, 1993 (total effort of 386.4 hours) and 1994 (total effort of 375.6 hours).

Common Name	1993		1994	
	Number Collected	Catch/hour	Number Collected	Catch/hour
Paddlefish	6	0.02	-	-
Longnose gar	4	0.01	48	0.13
Mooneye	17	0.04	5	0.01
Skipjack herring	378	0.98	554	1.48
Alewife	-	-	4	0.01
Gizzard shad	298	0.77	217	0.58
Threadfin shad	3	0.01	2	0.01
Common carp	1	0.01	9	0.02
Quillback	1	0.01	2	0.01
Northern hog sucker	6	0.02	-	-
Smallmouth buffalo	-	-	4	0.01
Spotted sucker	48	0.12	20	0.05
Silver redhorse	-	-	1	0.01
Golden redhorse	4	0.01	2	0.01
Shorthead redhorse	-	-	1	0.01
Blue catfish	216	0.56	760	2.02
Channel catfish	911	2.36	497	1.32
Flathead catfish	2	0.01	6	0.02
White bass	571	1.48	188	0.50
Yellow bass	487	1.26	690	1.84
Striped bass	23	0.06	51	0.14
Hybrid striped x white bass	60	0.16	24	0.06
Green sunfish	1	0.01	-	-
Warmouth	-	-	1	0.01
Bluegill	-	-	7	0.02
Redear sunfish	1	0.01	15	0.04
Sauger	876	2.27	905	2.41
Walleye	58	0.15	8	0.02
Hybrid walleye x sauger	30	0.08	15	0.04
Freshwater drum	51	0.13	312	0.83
Totals	4,053	10.50	4,348	11.58

Table 2. Estimated fishing pressure and catch rate for sauger from Chickamauga Reservoir, during the period 1986-1995.

Year	Population Estimate	Estimated Fishing Pressure (Hours)	Catch Rate (Number/Hour)
1986	18,381	30,422	0.52*
1987	2,861	17,439	0.59*
1988	1,251	11,201	0.00
1989	1,173	3,098	0.00
1990	78	5,938	0.96
1991	7,024	24,746	0.70
1992	No estimate	13,976	0.47
1993	2,241	12,990	0.63
1994	13,833	42,135	1.05
1995	No estimate	52,281	0.98

* Harvest/hour

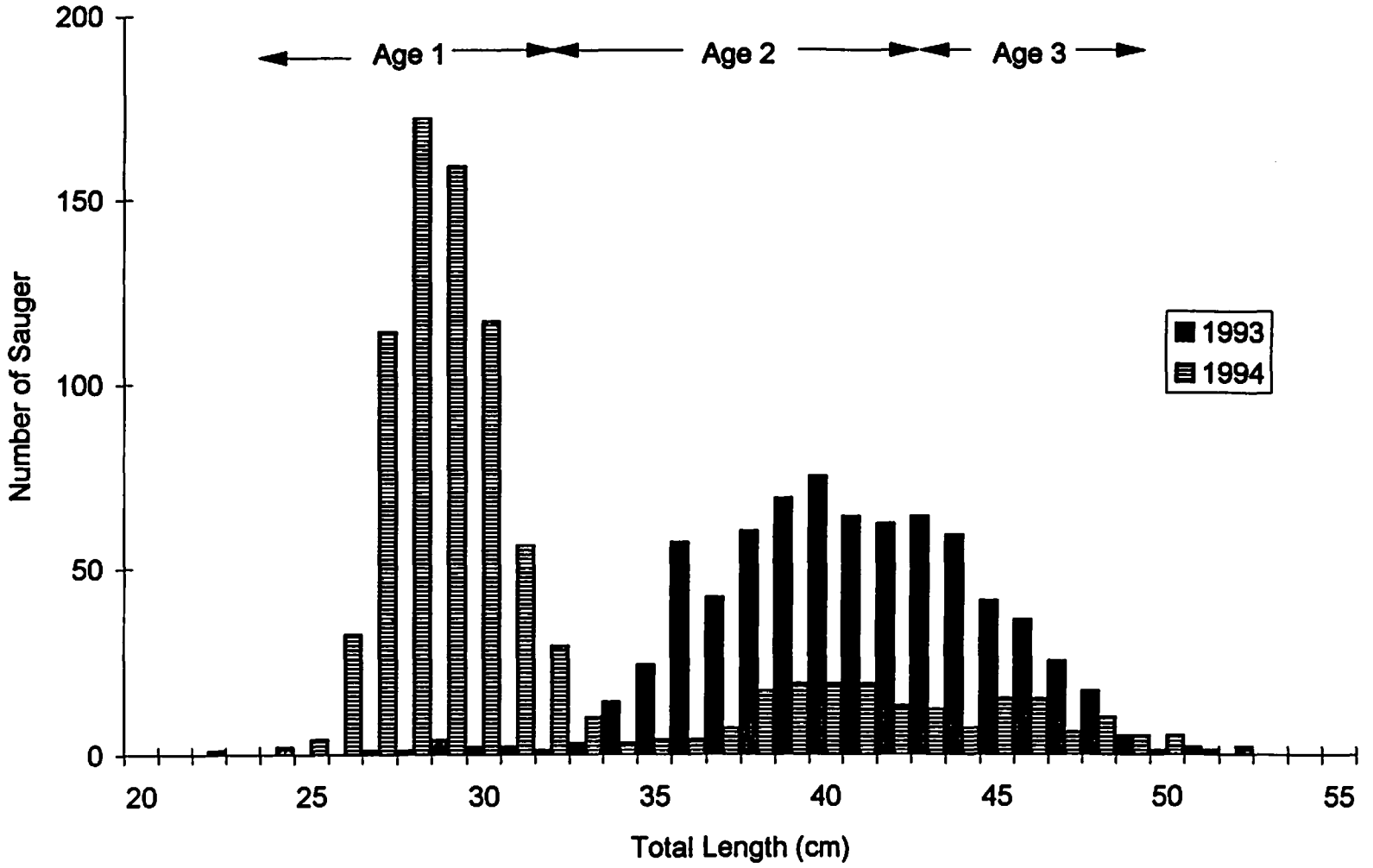

Figure 1. Length frequency/age composition of sauger collected from Chickamauga Reservoir during winter-spring, 1993 and 1994.

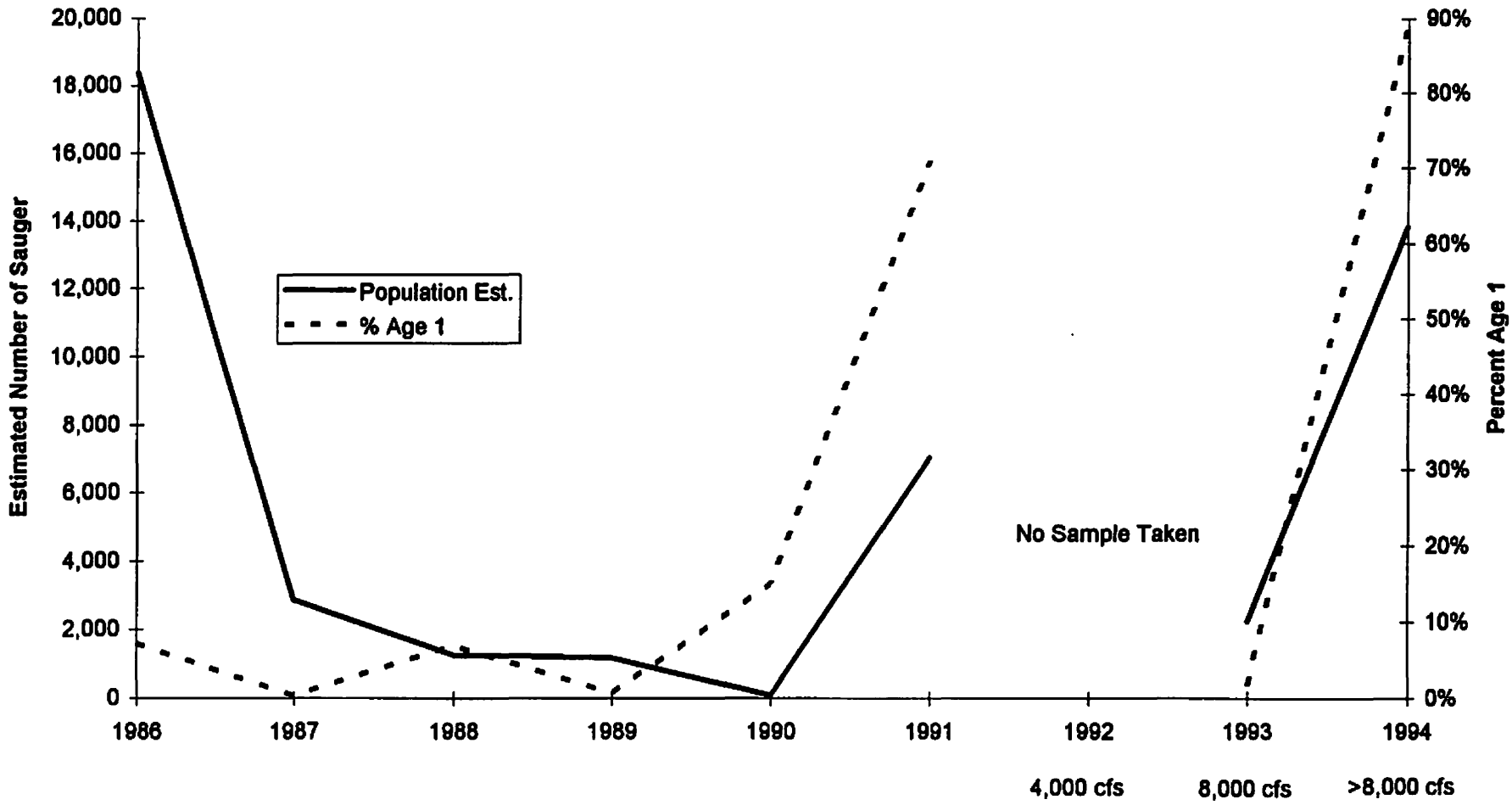

Figure 2. Estimated number of adult sauger and the percent of Age 1 sauger in Chickamauga Reservoir 1986-1994. Minimum discharge rates from Watts Bar Dam during April 1992-1994.

8933

TENNESSEE VALLEY AUTHORITY

River Basin Operations
Water Resources

Enclosure 10

STATUS OF THE CHANNEL CATFISH POPULATION IN CHICKAMAUGA RESERVOIR FIRST YEAR PROGRESS REPORT

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August 1991

TABLE OF CONTENTS

Introduction 1

Results and Discussion. 2
Sport Fishing Harvest. 2
Commercial Harvest 2
Cove Rotenone Sampling 3
Gill Net Sampling 4
Potential Effects from SQN/WBN 5

Conclusions. 6

INTRODUCTION

In 1986 the Tennessee Division of Water Pollution Control (TDWPC) and the Tennessee Wildlife Resources Agency (TWRA) expressed concern to the Tennessee Valley Authority (TVA) over possible declining populations of sauger, white crappie, white bass, and channel catfish in Chickamauga Reservoir as indicated by annual cove rotenone samples and TWRA creel surveys. Operation of Sequoyah Nuclear Plant (SQN) was mentioned as a possible contributing factor in the decline of these species and that the future operation of Watts Bar Nuclear Plant (WBN) might compound any effects to the aquatic biota of Chickamauga Reservoir. A specific concern for channel catfish was that they might be attracted and concentrated seasonally at the SQN diffuser discharge possibly resulting in overharvest. This, as well as other potential plant impacts are being examined and this report is provided on progress to date in addressing the state's concern over the status of the channel catfish population in Chickamauga Reservoir.

To determine if an actual sampling program was needed to evaluate the population status of channel catfish in Chickamauga Reservoir, a low-level effort was begun utilizing existing data from TVA's historical data base. These data were analyzed for trends and compared with similar data from adjacent reservoirs as well as fisherman harvest data collected by TWRA. No field sampling specifically for this project was conducted, although length and weight data for most channel catfish collected during the course of sampling for other projects on Chickamauga Reservoir during 1990 were recorded and stored for analysis during this investigation.

RESULTS AND DISCUSSION

Sport Fishing Harvest

Estimated annual sport fishermen harvest and average weight of channel catfish from Chickamauga Reservoir have been highly variable from 1972 through 1989 (Figure 1) with no evident trend of increasing or declining catch (TVA 1986a, TWRA 1989, TWRA 1990). Sport harvest (number/hr.) was lowest during 1981 and 1984 with no estimates available during 1985 through 1987. This situation may have suggested a negative trend and prompted the initial state concern in 1986. However, total number of channel catfish estimated harvested in 1989 (27,107) was second only to the number harvested during 1976, and estimated biomass in 1989 (23,700 kg) was the highest for the period. Average weight for catfish harvested during 1989 (0.87 kg) was exceeded only during 1982 (0.91 kg) (TWRA 1990).

Estimated harvest of channel catfish from Chickamauga Reservoir in 1988 and 1989 was much higher (Table 1) than from the mainstream reservoirs immediately upstream (Watts Bar) and downstream (Nickajack). Estimated harvest in all three reservoirs increased from 1988 to 1989, with the lowest proportional increase observed in Chickamauga.

Commercial Harvest

Commercial fishing license holders in the state of Tennessee were surveyed by mail in 1990 by TWRA to estimate the harvest of commercial fish species during 1989. Analysis of results was based on a 27 percent response rate (490 fishermen responded to survey forms mailed to all 1805

license holders). The report (TWRA 1990) prepared from results of this survey estimated harvest of 64,855 kg (142,853 lbs) of catfish from Chickamauga Reservoir during 1989. The survey reported harvest for all three species of catfish (i.e., channel, blue, and flathead) together, therefore, data specifically for channel catfish are unavailable. Channel catfish probably rank second to blue catfish in terms of abundance in the commercial harvest of the three catfish species from Chickamauga Reservoir based on observations by the authors. Weight for the total catfish harvest was 4.6 kg/ha (4.14 lbs/ac). By comparison, for the same period, total catfish harvest was estimated at 6.1 kg/ha (5.48 lbs/ac) in Watts Bar Reservoir and only 1.3 kg/ha (1.15 lbs/ac) in Nickajack Reservoir.

Cove Rotenone Sampling

Cove rotenone samples have been collected annually from Chickamauga Reservoir using comparable methods, and usually from the same four or five sites, since 1970. This extensive data base shows a wide range of annual density and biomass estimates for channel catfish (Figure 2). The highest density and biomass were recorded in 1981, although the lowest estimated harvest by sport fishermen was also recorded the same year. In 1986 the total biomass of all sizes (i.e. adult, intermediate and young-of-year categories) of channel catfish was the lowest recorded since 1970, while in 1987 the total number was the lowest recorded since 1970. Although no significant trend was found for numbers or biomass of adult channel catfish after analysis of cove rotenone data from 1970 through 1990, both numbers and biomass of intermediate size and numbers of young-of-year channel catfish have shown a significant decreasing

trend since 1970 (TVA 1991). Total number of channel catfish (all sizes) increased in 1988 to the second highest number collected since 1970 (Figure 2). Although cove rotenone samples from Watts Bar and Nickajack Reservoirs have not been collected annually, channel catfish abundance has also been highly variable in those reservoirs (Table 3). There is no consistent rank order among these three reservoirs.

Gill Net Sampling

Extensive gill net data for Chickamauga Reservoir were collected during preoperational and operational monitoring at SQN (TVA 1978, TVA 1986a). The catch per unit effort (CPUE) data in Table 4 were collected over a period of fourteen years employing similar methods (approximately 24 hour sets) and essentially the same sampling locations. The mean CPUE does indicate a general decline in catch of channel catfish from 1980 to 1985.

Additional gill net data from upper Chickamauga Reservoir (Table 5) were collected during preoperational monitoring at WBN (TVA 1986b) and various other projects (e.g., sauger and reservoir-wide monitoring) not specifically targeted at channel catfish. While catch rates in Table 5 are not directly comparable among all years listed, or with data in Table 4, they do provide comparisons within some sampling periods which employed similar gear, methods, and locations. Sampling in upper Chickamauga Reservoir during the period 1977-85 as part of the WBN preoperational monitoring program yielded fluctuating catch rates with no evident trends (Table 5). Sampling in 1986-90, which employed similar gear and methods during roughly the same time period each year, resulted in catch rates that again did not indicate declining abundance of channel catfish in upper Chickamauga Reservoir. This particular time period

approximately coincided with the period that SQN was shut down for safety concerns.

Potential Effects from SQN/WBN

Potential impacts to the channel catfish in Chickamauga Reservoir from operation of SQN and WBN include: (1) loss of planktonic larvae entrained by the condenser cooling water system; (2) loss of juvenile and adult fish impinged on plant intake screens; and (3) effects of thermal discharges on relative abundance and distribution of fish in the reservoir.

Operational monitoring at SQN has shown that entrainment percentages for channel catfish larvae were low in most years (Table 6), and entrainment impacts to the population should be negligible considering the low proportion of the total larval channel catfish produced in Chickamauga Reservoir which drift past SQN (TVA 1986a).

Previous operational monitoring reports have provided estimates of annual impingement based on weekly sampling of juvenile and adult fish on intake screens (Table 7) at SQN. Unlike entrainment, impingement losses are not expressed relative to numbers of fish adjacent to the plant. Instead, they are related to annual standing stock estimates from cove rotenone samples. Impingement mortality is viewed as the estimated quantity of reservoir fish standing stock removed by SQN each year. Based on four years of annual impingement sampling, it was concluded that impingement losses had not constituted an adverse impact to the channel catfish population in Chickamauga Reservoir (TVA 1986a). Impingement monitoring was discontinued in 1985.

No concentration of fish or concentrated fishing pressure has been observed in the SQN thermal plume during winter (TVA 1989). A supplemental creel survey conducted from April 1982 through June 1984 in the vicinity of SQN, although not designed to test the effect of fishing pressure within or outside of the mixing zone, has shown that blue and channel catfish are the primary species caught within the mixing zone or nearest the discharge diffusers during summer and to a lesser extent during winter.

CONCLUSIONS

Analysis of historical and recent data collected using a variety of sample methods failed to reveal any steadily declining trends in adult channel catfish densities in Chickamauga Reservoir from 1970 - 1990. Sport fishing harvest estimates for 1988 and 1989 were higher than estimates for 1983 and 1984. TWRA and TDWPC first expressed concern regarding this species in 1986, and was probably based in part on the decline in harvest of channel catfish from 1983 to 1984 (no creel data were available from 1985 through 1987). However, 1988 and 1989 creel data indicate that sport harvest of channel catfish has increased from the level estimated when concern was first expressed by the state. There is no indication that the channel catfish population of Chickamauga Reservoir has been effected by operation of SQN or is likely to be effected by future operation of WBN.

Additional length and weight data collected during reservoir-wide fish-community assessment monitoring in 1990 - 1991 will be analyzed and reported during fiscal 1992 to determine relative weight (W_r) and condition factors for channel catfish in Chickamauga Reservoir. Gill net data from biannual collection of channel catfish for radiological analysis in the vicinity of SQN will be analyzed for indications of channel catfish attraction to this area. Harvest (sportfish and commercial) data collected for 1990 by TWRA will also be analyzed during fiscal 1992. Following analysis of the data mentioned above, a final project report will be prepared and submitted during fiscal 1993.

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Table 1. Estimated total number and biomass, and average weight of channel catfish harvested by sport fishermen from Watts Bar, Chickamauga, and Nickajack Reservoirs, 1988-1989 according to TWRA sport fishing creel surveys

		Number	Biomass (kg)	Average Weight (kg)
Watts Bar	1988	10,820	7,500	0.69
	1989	23,611	19,894	0.84
Chickamauga	1988	25,377	19,083	0.75
	1989	27,107	23,700	0.87
Nickajack	1988	8,946	7,781	0.87
	1989	19,787	19,271	0.97

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Table 2. Average number and weight (kilograms) of channel catfish per hectare in Chickamauga Reservoir cove rotenone samples, 1970-1990.

Year	No. of Samples	Young-of-year (1 - 125mm)		Intermediate (126 - 225mm)		Harvestable (226mm +)		Total	
		no/ha	kg/ha	no/ha	kg/ha	no/ha	kg/ha	no/ha	kg/ha
1970	12	3.27	0.02	10.10	0.62	5.71	2.35	19.07	2.98
1971	5	13.52	0.05	15.04	0.92	27.08	12.06	55.65	13.03
1972	4	1.05	0.01	12.32	0.79	23.20	7.33	36.57	8.12
1973	4	1.23	0.01	12.07	0.71	29.68	9.64	42.98	10.36
1974	4	0.52	0.01	3.21	0.19	8.41	3.92	12.14	4.12
1975	4	1.03	0.01	2.39	0.11	10.27	4.13	13.69	4.25
1976	5	1.63	T	6.26	0.32	17.67	12.11	25.56	12.43
1977	5	2.75	0.02	4.55	0.27	12.14	7.12	19.44	7.40
1978	5	1.38	T	0.35	0.01	13.45	4.17	15.18	4.18
1979	5	1.05	0.01	1.40	0.04	22.35	14.19	24.80	14.24
1980	8	4.98	0.02	3.43	0.14	11.50	7.93	19.91	8.09
1981	5	6.41	0.06	4.17	0.12	67.02	59.00	77.60	59.17
1982	5	-	-	0.91	0.03	6.21	5.98	7.12	6.01
1983	5	-	-	-	-	11.22	12.69	11.22	12.69
1984	5	-	-	0.45	0.02	9.80	11.62	10.25	11.64
1985	5	0.44	T	8.40	0.45	7.32	8.97	16.16	9.42
1986	5	2.22	0.01	4.89	0.18	0.44	0.59	7.56	0.79
1987	5	0.45	T	-	-	3.24	3.62	3.69	3.63
1988	5	1.85	0.01	9.62	0.39	35.04	10.10	46.51	10.50
1989	5	-	-	-	-	10.28	6.86	10.28	6.86
1990	5	0.34	T	2.79	0.15	8.87	5.23	12.01	5.37

T = Trace (less than 0.01)

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Table 3. Average number and weight (kilograms) of channel catfish (all sizes) per hectare in Watts Bar, Chickamauga, and Nickajack Reservoir cove rotenone samples from 1970 through 1990.

Year	Watts Bar			Chickamauga			Nickajack		
	no/ha	kg/ha	no. of samples	no/ha	kg/ha	no. of samples	no/ha	kg/ha	no. of samples
1970		NS		19.1	3.0	12		NS	
1971		NS		55.7	13.0	5		NS	
1972		NS		36.6	8.1	4	19.8	0.9	4
1973	84.4	5.8	10	43.0	10.4	4		NS	
1974		NS		12.1	4.1	4		NS	
1975	11.4	2.9	6	13.7	4.3	4		NS	
1976	18.8	6.1	8	25.6	12.4	5		NS	
1977	42.1	8.4	8	19.4	7.4	5	9.0	0.3	4
1978	57.1	4.4	2	15.2	4.2	5		NS	
1979	16.5	11.2	2	24.8	14.2	5	4.7	2.9	4
1980	85.5	17.0	4	19.9	8.1	8	29.2	1.7	6
1981		NS		77.6	59.2	5	3.3	2.2	4
1982		NS		7.1	6.0	5		NS	
1983		NS		11.2	12.7	5		NS	
1984		NS		10.3	11.6	5		NS	
1985		NS		16.2	9.4	5		NS	
1986	*233.02	43.70	2	7.6	0.8	5		NS	
1987		NS		3.7	3.6	5		NS	
1988	127.0	23.3	2	46.5	10.5	5		NS	
1989		NS		10.3	6.9	5		NS	
1990		NS		12.0	5.4	5		NS	

NS = No sample taken

* 110.77 fish per hectare in this sample were represented by young-of-year fish (1-125 mm).

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Table 4. Annual catch per unit effort (CPUE) for channel catfish collected during quarterly gill net sampling, Sequoyah Nuclear Plant preoperational and operational monitoring, 1971-1977 and 1980-1985 respectively.

	CPUE (number per net night)				
Year	Station 1 (TRM 473.0)	Station 2 (TRM 483.2) SQN	Station 3 (TRM 495.0)	Station 4* (HRM 1.0)	Mean Total CPUE
1971	0.45	1.06	0.84	0.30	0.68
1972	0.46	0.58	0.67	0.69	0.60
1973	0.99	0.71	0.52	0.24	0.67
1974	0.32	0.45	0.79	-	0.52
1975	0.22	0.37	0.34	-	0.31
1976	0.42	0.78	0.51	-	0.57
1977	0.39	0.53	1.56	-	0.79
1980	0.66	1.51	0.82	-	1.00
1981	0.46	0.38	0.57	-	0.47
1982	0.24	0.63	0.45	-	0.44
1983	0.17	0.30	0.28	-	0.25
1984	0.29	0.34	0.36	-	0.33
1985	0.06	0.48	0.20	-	0.25

* Sampling at this site was terminated in spring 1973.

0433j

Table 5. Annual catch per unit effort (CPUE) for channel catfish observed during TVA netting studies in upper Chickamauga Reservoir, (TRM 515.0 - TRM 529.9), during 1977 - 1990.

Year	CPUE by net-type			CPUE unit	Reference
	XGN	GN	HN		
1977		-	0.07	net night	TVA 1986b
1978	0.60	-	0.01	"	"
1979	0.91	-	0.01	"	"
1982	0.61	-	0.02	"	"
1983	0.82	-	0.07	"	"
1984	0.75	-	0.02	"	"
1985	1.08	-	0.02	"	"
1986	-	0.39**	-	net hour	Hevel 1988
1987	-	2.27**	-	net hour	Hevel 1988
988	-	0.61**	-	net hour	Hickman 1989
1989	-	0.92**	-	net hour	Hickman et al 1990
1990	-	1.12**	-	net hour	Hickman et al 1991

* XGN = experimental gill net; GN = gill net; HN = hoop net.
** Includes both 2" mesh gill nets and experimental gill nets, which were not analyzed separately.

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Table 6. Estimated combined percent entrainment estimated for blue and channel catfish at Sequoyah Nuclear Plant, 1980-1985.

Year	Percent hydraulic entrainment (seasonal mean)	Percent entrainment (blue and channel catfish combined)	Actual number of larvae collected by species (stations combined)
1980	2.2	13.07	23 blue 108 channel
1981	13.4	8.42	17 blue 75 channel
1982	12.6	7.67	19 blue 49 channel
1983	5.7	9.42	23 blue 37 channel
1984	5.7	45.90*	12 blue 37 channel
1985	12.2	27.88	12 blue 28 channel

* Based on 17 specimens collected over two sample periods at the skimmer wall and plant transects; total of 49 larvae collected.

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Table 7. Estimated annual impingement of channel catfish at Sequoyah Nuclear Plant, 1981-1985.

Year	Estimated total impingement	*Percentage of standing stock impinged
1981	387	0.03
1982	179	0.18
1983	387	0.24
1984	358	0.24
1985**	212	0.14

* Based on numbers (not biomass) of fish impinged relative to numerical standing stock estimate derived from cove rotenone samples taken the same year, with the exception of the 1985 estimate which used 1984 rotenone data.

** Based on 212 days of impingement as compared to 365 days for previous years.

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Enclosure 13

TENNESSEE VALLEY AUTHORITY

River Basin Operations
Water Resources

PLANKTON STUDIES AT SEQUOYAH NUCLEAR PLANT IN 1988

Chattanooga, Tennessee

March 1989

TVA/WR/AB--89/3

TENNESSEE VALLEY AUTHORITY

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PLANKTON STUDIES AT SEQUOYAH NUCLEAR PLANT IN 1988

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March 1989

CONTENTS

	Page
Introduction	1
Methods	1
Results and Discussion	3
Recommendations	9
References	10
Tables	11
Appendixes	14
A. Water Quality Data on May 25 and August 31, 1988	15
B. Phytoplankton Data on May 25 and August 31, 1988	28
C. Zooplankton Data on May 25 and August 31, 1988	53

PLANKTON STUDIES AT SEQUOYAH NUCLEAR PLANT IN 1988

INTRODUCTION

Previous studies have indicated Sequoyah Nuclear Plant (SQN) may have a substantial effect on plankton during periods of two unit operation combined with low river flows. Coincidental occurrence of two unit operation and more normal flows was not encountered during previous studies to determine if these effects were observed under less severe conditions.

Continued plankton studies are aimed at evaluating the effect of SQN on plankton under full plant operation and river flows more commonly encountered. In August 1985, after the recommendation was made to continue plankton evaluations, both units at SQN were shut down and remained down until 1988. Unit 2 was restarted in April 1988. Unit 1 began intermittent operation late in 1988.

In the absence of conditions recommended for continued study, sampling protocols were altered in 1986, 1987, and 1988. Studies conducted in 1986 and 1987 were reported previously (TVA 1988a) and sent to the Tennessee Department of Health and Environment in January 1988 in fulfillment of an agreement to provide an annual status report on the continued plankton studies. Studies conducted in 1988 are summarized herein. These studies emphasized in-plant conditions rather than reservoir conditions to determine the effect on plankton organisms passing through the plant.

METHODS

Procedures for sample collection, laboratory handling and processing, and data analyses were basically the same as in previous

SQN studies (except as noted below) and were detailed in TVA (1986). The 1988 studies were conducted on May 25 and August 31.

Three in-plant collection sites were established, one near the condenser cooling water (CCW) intake pumping station and two in the diffuser pond--one near the inflow end (discharge canal) and the other at the outflow end. Two reservoir sites were also sampled--TRM 484.5 (midchannel near the skimmer wall) and TRM 483.4 (midchannel downstream from the diffuser)--to determine whether changes caused by passage through the plant were observable. The reservoir sites had been used in previous studies as the "intake" and "discharge" sites. Two sets of in-plant samples (one during the morning and one during the afternoon) and one set of reservoir samples (near midday) were collected on each sample date.

Sample collection procedures differed for the in-plant and reservoir sites because of habitat differences. All in-plant samples were collected at middepth of the respective site. These samples included: (1) duplicate zooplankton samples collected with a 50-l Schindler trap for immediate observation (i.e., less than one hour) and later detailed enumeration, (2) phytoplankton emuneration and phytopigment samples collected with standard gear, and (3) a single sample for chlorophyll fluorescence collected with the other phytoplankton samples. The zooplankton samples collected for immediate observation and the phytoplankton fluorescence samples were collected to examine viability of these organisms. These samples were taken to a laboratory on site for immediate processing.

With the exception of omitting zooplankton viability samples and adding phytoplankton primary productivity samples, the same types

of community measurements were included at the reservoir sites. Full water column zooplankton tows were made with a plankton net and phytoplankton samples were collected at several depths with standard gear.

In situ measurements of dissolved oxygen (DO), pH, temperature, and conductivity were made during sample collection at all stations. In addition, water samples for selected metals and residual chlorine analysis were collected each survey in the diffuser pond outflow station and at 1.5-m depth at TRMs 484.5 and 483.4 as requested in a January 9, 1988, letter from TDHE. The metals samples were analyzed for cadmium, boron, lead, aluminum, and nickel.

RESULTS AND DISCUSSION

Detailed data presentations are provided in the appendices. Appendix A contains water quality data; Appendix B contains phytoplankton data; and Appendix C contains zooplankton data. Environmental conditions in Chickamauga Reservoir during spring and summer 1988 were quite different from typical years in that the Tennessee Valley was in a severe, multiyear drought. Reservoir flows were much below normal (4,100 cfs on May 25 and 12,500 cfs on August 31) and residence times in the reservoir were much longer than normal. This situation coupled with special operation of the TVA hydroelectric system resulted in relatively strong stratification in the lower half of the reservoir. This stratification existed on and before May 25 and continued until two days before the August 31 sample date when the hydroelectric system was returned to the normal peaking operation. Destratification just prior to sample collection on August 31 would be expected to substantially influence the reservoir plankton

communities. Details of the special hydroelectric operations and the effects of SQN on temperature and dissolved oxygen in Chickamauga Reservoir have been provided in another report (TVA 1988b).

Unit 2 resumed operation in spring 1988 and operated intermittently from April through July, after which it operated continuously for the rest of 1988. Unit 1 was restarted near the end of 1988. On the May 25 sample date Unit 2 output was about 75 percent of capacity and on August 31 it was near 100 percent. Intake pumping demand was 1300 cfs on May 25 and 1100 cfs on August 31 resulting in SQN entraining about 32 percent of the flow past the plant on May 25 and 9 percent on August 25.

Water quality data from the reservoir station near the intake (TRM 484.5) indicate the reservoir stratification was primarily an oxycline (DO ranged 7.5 mg/l at surface to 2.2 mg/l at bottom) and not a strong thermocline (temperature ranged 22.5°C at surface to 20.1°C at bottom). At TRM 483.4 downstream of the diffusers the stratification was much less evident due to mixing by the diffusers (TVA 1988b). DO ranged 5.5 to 3.7 mg/l from surface to bottom. Temperature differentials between surface and bottom were about the same at TRM 483.4 as at TRM 484.5 (about 2°C), although water column temperatures were about 1°C higher at the downstream location indicating slight warming of the water column.

The design of the SQN intake results in withdrawal of lower strata water from the reservoir for cooling. This bottom water (temperature 20.7°C and DO 3.5 mg/l) would be expected to have few viable phytoplankton cells and should show a sharp contrast with the phytoplankton community in surface waters at TRM 484.5. Subsequent

discharge of this water through the diffusers and mixing with waters immediately downstream would be expected to cause a decrease in phytoplankton in upper strata at TRM 483.4 compared to TRM 484.5.

Destratification following the return of the hydroelectric operations to normal peaking just prior to the August 31 sample date is evidenced by both temperature and DO data. Surface to bottom ranges were only 27.7 to 26.6°C and 5.6 to 4.8 mg/l, respectively at TRM 484.5. The diffuser mixing phenomenon described above was also evident by reduced surface DO levels at TRM 483.4 on August 31.

Concentrations of selected metals in water are in table 1 along with their respective criteria for protection of aquatic life. The only instance where a criterion was exceeded was for aluminum in the diffuser pond on May 25 when the 230 µg/l measured was above the chronic toxicity level of 150 µg/l. Comparisons between an instantaneous measurement and a criterion based on a 4-day average must be made conservatively and used only as an indication of potential effects. However, the 140 µg/l measured at TRM 483.4 was only slightly below that criterion even after mixing in the reservoir. Thus, potential chronic effects from aluminum cannot be ruled out during this study period. Further evaluation of aluminum toxicity is not appropriate based on these limited data. TVA began monthly toxicity tests at SQN in fall 1988 to address whole effluent toxicity which is the appropriate way to address the issue.

Chlorine residuals were <0.1 mg/l (the minimum detection limit) at all sites tested on May 25. Sites tested were the 1.5 m depth at TRMs 484.5 and 483.4 and the diffuser pond. Although the same sites

were tested on August 31, presence of oxidized manganese interfered with the test rendering results useless.

The phytoplankton data indicate few differences among the three in-plant stations during the morning or afternoon sample periods on May 25. As expected, the phytoplankton community sampled at in-plant stations reflected the low community measurements found in lower strata at TRM 484.5 compared to measurements for upper strata there. The effect of discharging this bottom water with low phytoplankton measurements was reflected as reduced densities at all depths at TRM 483.4 compared to comparable depths at TRM 484.5. These results support previous findings of little through plant effect on phytoplankton, although reduced cell densities were apparent at TRM 483.4 during these low reservoir flow conditions, due to withdrawing bottom water from TRM 484.5 and subsequent diffuser-induced mixing of that depauperate water with upper strata water at TRM 483.4.

A very different set of conditions existed on August 31 resulting in different observations on the phytoplankton. The in-plant stations reflected a serial reduction from intake to discharge canal to diffuser pond outlet during both morning and afternoon periods indicating within plant effects possibly due to the high temperatures there (about 40°C). These reductions were not apparent at TRM 483.4. In fact, densities were generally higher at TRM 483.4 than comparable depths at TRM 484.5. It is possible that sufficient water was available for mixing that the reduced densities from the diffusers were not measurable at TRM 483.4. The plant was entraining about 9 percent of the reservoir flow during this period compared to 32 percent during the May sampling.

The zooplankton data for May 25 indicate substantial reductions between the intake station and the other two in-plant stations during the morning but not afternoon sample sets. Interestingly, most of the reduction was due to decreased rotifer densities and of that most was due to two genera--Polyarthra and Keratella. Both of these genera were much more abundant at the intake station in the morning than any other sample set. These reductions may have been due to destruction in condenser passage (which is more believable for the soft-bodied Polyarthra than the loricate Keratella), or the differences may not have been reductions at all but rather they may have been the result of sampling a concentrated patch of these organisms at the intake during the morning. Zooplankton densities at TRM 483.4 were lower than at TRM 484.5, again due to reduced numbers of rotifers. In this case the difference was due to one genus--Brachionus, which was abundant at the upper station but almost absent from the lower station. This observation is thought to be due to patchy distribution of these animals because these alterations were not observed at in-plant stations. It should be remembered that the very low river flows during the May sample period made this area of Chickamauga Reservoir more of a lake environment conducive to this type distribution pattern.

Direct observation on the May 25 in-plant samples indicated approximately 17 percent of the zooplankton organisms were immobile at the intake compared to 36 percent at the discharge canal and 28 percent at the diffuser outlet. Most immobile animals were members of a rotifer genus which could not be identified with the microscopes used in the field laboratory, but which appeared to be quite fragile

and perhaps easily immobilized by sampling and handling. Hence, the lack of mobility in the intake samples may have due mostly to handling and that at the other two sites due to handling plus condenser passage effects.

As previously stated, conditions in Chickamauga Reservoir in August were quite different than for any other study period to date. The zooplankton exhibited great differences among the three in-plant stations and between TRM 484.5 and TRM 483.3. Highest densities for all zooplankton groups occurred at TRM 484.5. Densities appeared to decrease serially as the cooling water traversed the CCW system. Direct observations on the in-plant samples showed about the same percentage (14 percent) of immobile animals in the intake as observed in May, however, samples from the other two sites were much different in August than in May. Almost all (>90 percent) animals were immobile at the discharge and diffuser outlet sites, probably owing to the quite warm conditions (40°C) at those sites. Samples collected downstream of the diffusers at TRM 483.4 had a substantially lower number of animals compared to upstream. It is not clear from the information at hand why the reduced numbers observed at in-plant stations following passage through the CCW system would be manifested in the zooplankton yet not the phytoplankton. The very complex hydraulics near the underwater dam and diffusers may account partially for this apparent discrepancy.

Results of phytoplankton studies conducted in 1988 generally support the conclusions of previous studies (TVA 1988a). That is, the primary cause of reduced phytoplankton cell densities observed immediately downstream of the diffusers is discharge of bottom water

containing nominal cell densities and mixing of that water with surface waters at TRM 483.4 containing an abundant phytoplankton community. These reductions would not be measurable unless SQN entrained at least 10 percent of the river flow and had a heated effluent whose buoyancy apparently carries the discharged water to surface. The 1988 results indicated part of the reduced cell densities during summer may be due to passage through the CCW system.

Results of zooplankton studies in 1988 also support previous studies in showing that the zooplankton may be affected anytime water is being pumped through the plant, but this effect is not detectable in the reservoir unless at least 10 percent of the river flow is entrained. These results indicated that during summer essentially all the zooplankton entrained in the CCW is immobilized (assumed dead).

It should be noted that there have been occasions in previous studies when SQN entrained approximately 10 percent of the river flow and effects on phytoplankton and zooplankton were not observed. This was the situation found in the August 1988 phytoplankton results. It would appear that as the entrainment rate increases above 10 percent so does the ability to measure plant effects.

RECOMMENDATIONS

Recommendations provided in previous TVA reports and approved by TDHE should be followed when specified conditions occur (table 2). These recommendations were developed to evaluate effects of SQN on plankton under "normal" river flows and maximum SQN operation. This information is necessary to determine if SQN has a measurable effect on plankton in Chickamauga Reservoir under those conditions.

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TABLES

Table 1. Levels of Metals in Water at Each Collection Site in May 1988 Plankton Studies at Sequoyah Nuclear Plant (all units µg/l unless otherwise noted)

	Water Quality Criteria		May 25			August 31		
	Chronic	Acute	TRM 484.5	TRM 483.4	Diffuser Pond	TRM 484.5	TRM 483.4	Diffuser Pond
Boron	a	a	<50	<50	<50	<50	<50	NC[b]
Cadmium	1.1[c]	3.9[c]	<0.1	<0.1	<0.1	<0.1	<0.1	NC
Lead	3.2[c]	82[c]	<1	<1	1	<1	<1	NC
Nickel	160	1,400	<1	<1	<1	<1	2	NC
Aluminum	150[d]	950[d]	<50	140	230	<50	<50	NC

a. Not developed for protection of aquatic life.
b. Not collected.
c. At water hardness of 100 mg/l.
d. Levels provided in draft criteria document dated February 18, 1986.

Table 2. Conditions Under Which Samples Will Be Collected to Determine Whether Two-Unit Operation of Sequoyah Nuclear Plant Causes Effects of Plankton at Other than Low River Flows

Season[a]	Level of Operation	Flow (cfs)	Required Period[b]
Spring	two-unit	19,000	2-3
Spring	two-unit	28,300	1-2
Summer	two-unit	12,000	6-7
Summer	two-unit	29,700	1-2
Summer	two-unit	37,500	1-2

a. Spring = May; Summer = July 15-August 15.
b. Number of days required where specified conditions of plant operation and reservoir flow must exist before plankton studies would be conducted.

APPENDIXES

APPENDIX A

WATER QUALITY DATA ON

MAY 25 AND AUGUST 31, 1988

TABLE A-1

STORET RETRIEVAL DATE 89/03/13 PGM=ALLPARM PAGE:

/TYPA/AMBNT/STREAM

477052
35 13 28.0 085 05 17.0 2
SEQUOYAH NUCLEAR PLANT INTAKE POND
47065 TENNESSEE HAMILTON
TENNESSEE RIVER BASIN 040802
ADJACENT TO TENNESSEE RIVER 484.5
131TVAC 871024 06020001
0000 FEET DEPTH

DATA LOCKED FOR 270 DAYS.

	INITIAL DATE			88/05/25	88/05/25	88/08/31	88/08/31
	INITIAL TIME			1000	1400	1000	1400
	MEDIUM			WATER	WATER	WATER	WATER
	DEPTH-FT(SMK)			9.84	9.84	9.84	9.84
00008	LAB	IDENT.	NUMBER	5588	5591	10367	10370
32211	CHLRPHYL	A UG/L	CORRECTD	2.40	3.70	6.10	7.20
32212	CHLRPHYL	B	UG/L	1.00K	1.00K	1.00K	1.00K
32214	CHLRPHYL	C	UG/L	1.00	1.00K	1.00K	1.00K
32219	PHEOPHTN	A	UG/L	1.50	1.00K	3.60	3.30
74041	UDF	SAMPLE	UPDATED	880711	880711	881006	881006
84063	SERIES	CODE	ALPHA	1	4		

TABLE A-1 (Continued)

STORET RETRIEVAL DATE 89/03/13 PGM=ALLPARM PAGE:

477087
35 13 28.0 085 05 17.0 2
SEQUOYAH NUCLEAR PLANT DISCHARGE
47065 TENNESSEE HAMILTON
TENNESSEE RIVER BASIN 040802
SEQUOYAH DISCHARGE TO DIFFUSER POND
131TVAC 880716 06020001
0000 FEET DEPTH

/TYPA/AMBNT/STREAM

DATA LOCKED FOR 270 DAYS.

INITIAL DATE				88/05/25	88/05/25	88/08/31	88/08/31
INITIAL TIME				1000	1400	1000	1400
MEDIUM				WATER	WATER	WATER	WATER
DEPTH-FT(SMK)				9.84	9.84	9.84	9.84
00000	LAB	IDENT.	NUMBER	5589	5592	10368	10371
32211	CHLRPHYL	A UG/L	CORRECTD	2.40	1.30	5.60	4.80
32212	CHLRPHYL	B	UG/L	1.00K	1.00K	1.00K	1.00K
32214	CHLRPHYL	C	UG/L	1.00K	1.00K	1.00K	1.00K
32213	PHEOPHTN	A	UG/L	1.10	1.00K	2.40	2.70
74241	WQF	SAMPLE	UPDATED	880711	880711	881006	881006
81062	SERIES	CODE	ALPHA	2	5		

TABLE A-1 (Continued)

STORET RETRIEVAL DATE 89/03/13 PGM=ALLPARM PAGE:

/TVA-IND/TREATD/OUTFL/NONAMB/PIPE/IMPDMT

477051
35 13 04.0 085 05 28.0 2
SEQUOYAH NUCLEAR PLANT DIFFUSER POND
47065 TENNESSEE HAMILTON
TENNESSEE RIVER BASIN 040802
ADJACENT TO TENNESSEE RIVER 483.4
131TVAC 871024 06020001
0000 FEET DEPTH

DATA LOCKED FOR 270 DAYS.

INITIAL DATE				88/05/25	88/05/25	88/08/31	88/08/31
INITIAL TIME				1000	1400	1000	1400
MEDIUM				WATER	WATER	WATER	WATER
DEPTH-FT(SMK)				6.56	6.56	6.56	6.56
00002	LAB	IDENT.	NUMBER	5590	5593	10369	10372
01022	BORON	B,TOT	UG/L	50K			
01027	CADMIUM	CD,TOT	UG/L	.1K			
01051	LEAD	PB,TOT	UG/L	1			
01067	NICKEL	NI,TOTAL	UG/L	1K			
01105	ALUMINUM	AL,TOT	UG/L	230			
32211	CHLRPHYL	A UG/L	CORRECTD	1.60	1.60	5.30	3.70
32212	CHLRPHYL	B	UG/L	1.00K	1.00K	1.00K	1.00K
32214	CHLRPHYL	C	UG/L	1.00K	1.00K	1.00K	1.00K
32210	PHEOPHTN	A	UG/L	1.90	1.00	2.90	2.80
74041	WQF	SAMPLE	UPDATED	880811	880720	881006	881006
84066	SERIES	CODE	ALPHA	3	6		

TABLE A-2

STORET RETRIEVAL DATE 89/03/13 PGM=ALLPARM PAGE:

/TYPA/AMBNT/STREAM

475023
35 13 30.0 085 04 54.0 2
CHICKAMAUGA RESERVOIR
47065 TENNESSEE HAMILTON
TENNESSEE RIVER BASIN 040801
TENNESSEE RIVER 484.5
131TVAC 850810 06020001022 0010.630 ON
0000 FEET DEPTH

DATA LOCKED FOR 270 DAYS.

	INITIAL DATE			88/05/25	88/05/25	88/05/25	88/05/25	88/05/25	88/05/25	88/05/25	88/05/25	88/05/25
	INITIAL TIME			1330	1331	1332	1333	1334	1336	1337	1338	1338
	MEDIUM			WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	DEPTH-FT(SMK)			0.983999	0.983999	3.28	3.28	4.92	9.84	9.84	14.76	16.4
00002	HSAMPLOC	% FROM	RT BANK	80.0	80.0D	80.0	80.0D	80.0	80.0	80.0D	80.0	80.0
00008	LAB	IDENT.	NUMBER	5602	5603	5604	5605	5586	5606	5607		5608
00010	WATER	TEMP	CENT	22.5		22.5		22.5	22.5		22.4	22.4
00011	WATER	TEMP	FAHN	72.5$		72.5$		72.5$	72.5$		72.3$	72.3$
00078	TRANSP	SECCHI	METERS	1.30								
00094	CNDUCTVY	FIELD	MICROMHO	194		194		194	195		195	195
00300	DO		MG/L	7.5		7.3		7.3	7.3		7.2	7.2
00301	DO	SATUR	PERCENT	85.2$		83.0$		83.0$	83.0$		81.8$	81.8$
00400	PH		SU	7.60		7.60		7.50	7.50		7.60	7.50
00410	T ALK	CACO3	MG/L	60		55			55			55
00605	ORG N	N	MG/L	.210		.200			.240			.210
00610	NH3+NH4-	N TOTAL	MG/L	.070		.080			.070			.070
00612	UN-IONZD	NH3-N	MG/L	.001$		.001$			.001$			.001$
00619	UN-IONZD	NH3-NH3	MG/L	.002$		.002$			.001$			.001$
00625	TOT KJEL	N	MG/L	.280		.280			.310			.280
00630	NO2&NO3	N-TOTAL	MG/L	.05		.04			.04			.04
00665	PHOS-TOT		MG/L P	.010		.010			.020			.020
00666	PHOS-DIS		MG/L P	.010		.010			.010			.010
00680	T ORG C	C	MG/L	2.3		2.5			2.5			2.2
01022	BORON	B,TOT	UG/L					50K				
01027	CADMIUM	CD,TOT	UG/L					.1K				
01051	LEAD	PB,TOT	UG/L					1K				
01067	NICKEL	NI,TOTAL	UG/L					1K				
01105	ALUMINUM	AL,TOT	UG/L					50K				
32211	CHLRPHYL	A UG/L	CORRECTD	6.90	6.40	6.10	6.40		6.10	6.70		6.40
32212	CHLRPHYL	B	UG/L	1.00	1.00K	1.00K	1.00K		1.00K	1.00K		1.00K
32214	CHLRPHYL	C	UG/L	1.70	1.10	1.30	1.40		1.30	1.30		1.40
32218	PHEOPHTN	A	UG/L	1.70	1.40	3.20	2.00		2.50	2.70		1.80
74041	WQF	SAMPLE	UPDATED	880729	880711	880729	880711	880811	880729	880711	880616	880729
82079	TURBIDTY	LAB	NTU	3.4		10.1			3.6			4.2
84002	CODE	GENERAL	REMARKS	D1	D2	D1	D2		D1	D2		D1
84068	SERIES	CODE	ALPHA	15	16	17	18		19	20		21

TABLE A-2 (Continued)

STORET RETRIEVAL DATE 89/03/13 PGM=ALLPARM PAGE:

475023
35 13 30.0 085 04 54.0 2
CHICKAMAUGA RESERVOIR
47065 TENNESSEE HAMILTON
TENNESSEE RIVER BASIN 040801
/TYPA/AMBNT/STREAM TENNESSEE RIVER 484.5
131TVAC 850810 06020001022 0010.630 ON
0000 FEET DEPTH

DATA LOCKED FOR 270 DAYS.

	INITIAL DATE			88/05/25	88/05/25	88/05/25	88/05/25	88/05/25	88/05/25	88/05/25	88/05/25	88/05/25
	INITIAL TIME			1339	1340	1342	1343	1344	1346	1348	1349	1350
	MEDIUM			WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	DEPTH-FT(SMK)			16.4	19.68	24.6	26.24	29.52	34.44	39.36	39.688	40.016
00002	HSAMPLOC	% FROM	RT BANK	80.0D	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
00008	LAB	IDENT.	NUMBER	5609								
00010	WATER	TEMP	CENT		22.4	22.4	22.4	22.4	22.4	22.1	21.9	22.1
00011	WATER	TEMP	FAHN		72.3$	72.3$	72.3$	72.3$	72.3$	71.8$	71.4$	71.8$
00094	CNDUCTVY	FIELD	MICROMHO		195	195	194	194	194	193	193	193
00300	DO		MG/L		7.2	7.1	7.1	7.1	7.1	6.8	6.1	5.8
00301	DO	SATUR	PERCENT		81.8$	80.7$	80.7$	80.7$	80.7$	77.3$	69.3$	65.9$
00400	PH		SU		7.60	7.50	7.40	7.50	7.50	7.30	7.30	7.30
32211	CHLRPHYL	A UG/L	CORRECTD	5.30								
32212	CHLRPHYL	B	UG/L	1.00K								
32214	CHLRPHYL	C	UG/L	1.50								
32218	PHEOPHTN	A	UG/L	3.40								
74041	WQF	SAMPLE	UPDATED	880720	880616	880616	880729	880616	880616	880616	880616	880616
84002	CODE	GENERAL	REMARKS	D2								
84068	SERIES	CODE	ALPHA	22								

	INITIAL DATE			88/05/25	88/05/25	88/05/25	88/05/25	88/05/25	88/05/25	88/05/25	88/08/31	88/08/31
	INITIAL TIME			1351	1352	1353	1354	1355	1356	1358	1253	1254
	MEDIUM			WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	DEPTH-FT(SMK)			40.344	40.672	41.656	42.64	43.624	44.28	46.576	0.983999	0.983999
00002	HSAMPLOC	% FROM	RT BANK	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0D
00008	LAB	IDENT.	NUMBER								9630	
00010	WATER	TEMP	CENT	21.2	21.7	20.5	20.4	20.3	20.3	20.1	27.1	
00011	WATER	TEMP	FAHN	70.2$	71.1$	68.9$	68.7$	68.5$	68.5$	68.2$	80.8$	
00078	TRANSP	SECCHI	METERS								2.00	
00094	CNDUCTVY	FIELD	MICROMHO	193	189	188	187	188	187	187	215	
00300	DO		MG/L	5.4	3.3	2.8	2.6	2.6	2.5	2.2	5.6	
00301	DO	SATUR	PERCENT	60.0$	37.5$	30.4$	28.3$	28.3$	27.2$	23.9$	69.1$	
00400	PH		SU	7.20	7.00	6.90	6.90	6.90	7.00	6.90	7.30	
00410	T ALK	CACO3	MG/L								70	
00431	T ALK	FIELD	MG/L								68	
00605	ORG N	N	MG/L								.160	
00610	NH3+NH4-	N TOTAL	MG/L								.040	
00612	UN-IONZD	NH3-N	MG/L								.0005$	

(SAMPLE CONTINUED ON NEXT PAGE)

TABLE A-2 (Continued)

STORET RETRIEVAL DATE 89/03/13 PGM=ALLPARM PAGE:

475023
35 13 30.0 085 04 54.0 2
CHICKAMAUGA RESERVOIR
47065 TENNESSEE HAMILTON
TENNESSEE RIVER BASIN 040801
/TYPA/AMBNT/STREAM TENNESSEE RIVER 484.5
131TVAC 850810 06020001022 0010.630 ON
0000 FEET DEPTH

DATA LOCKED FOR 270 DAYS.

(SAMPLE CONTINUED FROM PREVIOUS PAGE)

INITIAL DATE			88/05/25	88/05/25	88/05/25	88/05/25	88/05/25	88/05/25	88/05/25	88/08/31	88/08/31
INITIAL TIME			1351	1352	1353	1354	1355	1356	1358	1253	1254
MEDIUM			WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
DEPTH-FT(SMK)			40.344	40.672	41.656	42.64	43.624	44.28	46.576	0.983999	0.983999
00619 UN-IONZD	NH3-NH3	MG/L								.0006$	
00625 TOT KJEL	N	MG/L								.200	
00630 NO2&NO3	N-TOTAL	MG/L								.04	
00665 PHOS-TOT		MG/L P								.020	
00666 PHOS-DIS		MG/L P								.020	
00680 T ORG C	C	MG/L								3.5	
32211 CHLRPHYL	A UG/L	CORRECTD								5.30	6.70
32212 CHLRPHYL	B	UG/L								1.00K	1.00K
32214 CHLRPHYL	C	UG/L								1.00K	1.00K
32218 PHEOPHTN	A	UG/L								1.90	2.50
74041 WQF	SAMPLE	UPDATED	880616	880616	880616	880616	880616	880616	880616	881006	881006
82079 TURBIDTY	LAB	NTU								3.4	
84002 CODE	GENERAL	REMARKS								D1	D2
84068 SERIES	CODE	ALPHA								SQ6	

INITIAL DATE			88/08/31	88/08/31	88/08/31	88/08/31	88/08/31	88/08/31	88/08/31	88/08/31	88/08/31
INITIAL TIME			1254	1255	1255	1256	1257	1258	1259	1300	1300
MEDIUM			WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
DEPTH-FT(SMK)			3.28	3.28	4.92	9.84	9.84	14.76	16.4	16.4	19.68
00002 HSAMPLOC	% FROM	RT BANK	80.0	80.0D	80.0	80.0	80.0D	80.0	80.0	80.0D	80.0
00008 LAB	IDENT.	NUMBER	9631		9637	9632			9633		
00010 WATER	TEMP	CENT	27.1		27.0	27.0		26.8	26.8		26.8
00011 WATER	TEMP	FAHN	80.8$		80.6$	80.6$		80.2$	80.2$		80.2$
00094 CNDUCTVY	FIELD	MICROMHO	216		217	217		217	217		217
00300 DO		MG/L	5.5		5.4	5.4		5.0	4.9		4.8
00301 DO	SATUR	PERCENT	67.9$		66.7$	66.7$		61.7$	60.5$		59.3$
00400 PH		SU	7.30		7.20	7.00		6.90	6.80		6.80
00410 T ALK	CACO3	MG/L	70			70			70		
00431 T ALK	FIELD	MG/L	69			70			67		
00605 ORG N	N	MG/L	.190			.170			.200		
00610 NH3+NH4-	N TOTAL	MG/L	.030			.040			.030		
00612 UN-IONZD	NH3-N	MG/L	.0004$			.0003$			.0001$		
00619 UN-IONZD	NH3-NH3	MG/L	.0005$			.0003$			.0001$		
00625 TOT KJEL	N	MG/L	.220			.210			.230		
00630 NO2&NO3	N-TOTAL	MG/L	.04			.03			.03		
00665 PHOS-TOT		MG/L P	.030			.030			.030		
00666 PHOS-DIS		MG/L P	.020			.010			.010		

(SAMPLE CONTINUED ON NEXT PAGE)

TABLE A-2 (Continued)

STORET RETRIEVAL DATE 89/03/13 PGM=ALLPARM PAGE:

475023
35 13 30.0 085 04 54.0 2
CHICKAMAUGA RESERVOIR
47065 TENNESSEE HAMILTON
TENNESSEE RIVER BASIN 040801
/TYPA/AMBNT/STREAM TENNESSEE RIVER 484.5
131TVAC 850810 06020001022 0010.630 ON
0000 FEET DEPTH

DATA LOCKED FOR 270 DAYS.

(SAMPLE CONTINUED FROM PREVIOUS PAGE)

INITIAL DATE			88/08/31	88/08/31	88/08/31	88/08/31	88/08/31	88/08/31	88/08/31	88/08/31	88/08/31
INITIAL TIME			1254	1255	1255	1256	1257	1258	1259	1300	1300
MEDIUM			WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
DEPTH-FT(SMK)			3.28	3.28	4.92	9.84	9.84	14.76	16.4	16.4	19.68
00680 T ORG C	C	MG/L	3.5			3.5			4.1		
01022 BORON	B,TOT	UG/L			50K						
01027 CADMIUM	CD,TOT	UG/L			.1K						
01051 LEAD	PB,TOT	UG/L			1K						
01067 NICKEL	NI,TOTAL	UG/L			1K						
01105 ALUMINUM	AL,TOT	UG/L			50K						
32211 CHLRPHYL	A UG/L	CORRECTD	6.90	5.90		5.90	7.70		5.10	4.80	
32212 CHLRPHYL	B	UG/L	1.00K	1.00K		1.00K	1.20		1.00K	1.00K	
32214 CHLRPHYL	C	UG/L	1.00K	1.00K		1.00K	1.00K		1.00K	1.30	
32215 PHEOPHTN	A	UG/L	2.60	2.00		2.20	1.40		2.20	2.90	
74041 WQF	SAMPLE	UPDATED	881006	881006	881006	881006	881006	880907	881006	881006	880907
82079 TURBIDTY	LAB	NTU	3.6			3.7			4.4		
84002 CODE	GENERAL	REMARKS	D1	D2		D1	D2		D1	D2	
84069 SERIES	CODE	ALPHA	SQ7		SQ8	SQ9			SQ10		

INITIAL DATE			88/08/31	88/08/31	88/08/31	88/08/31	88/08/31	88/08/31	88/08/31
INITIAL TIME			1302	1303	1304	1306	1308	1310	1312
MEDIUM			WATER	WATER	WATER	WATER	WATER	WATER	WATER
DEPTH-FT(SMK)			24.6	26.24	29.52	34.44	39.36	44.28	49.2
00002 HSAMPLOC	% FROM	RT BANK	80.0	80.0	80.0	80.0	80.0	80.0	80.0
00010 WATER	TEMP	CENT	26.7	26.7	26.7	26.7	26.6	26.6	26.6
00011 WATER	TEMP	FAHN	80.1$	80.1$	80.1$	80.1$	79.9$	79.9$	79.9$
00094 CNDUCTVY	FIELD	MICROMHO	217	217	218	219	218	219	218
00300 DO		MG/L	4.8	4.8	4.9	4.8	4.8	4.8	4.8
00301 DO	SATUR	PERCENT	59.3$	59.3$	60.5$	59.3$	59.3$	59.3$	59.3$
00400 PH		SU	6.80	6.80	6.80	6.80	6.80	6.80	6.80
74041 WQF	SAMPLE	UPDATED	880907	881006	880907	880907	880907	880907	880907

TABLE A-3

STORET RETRIEVAL DATE 89/03/13 PGM=ALLPARM PAGE:

475304 1035
35 12 45.0 085 05 29.0 2
CHICKAMAUGA RESERVOIR
47065 TENNESSEE HAMILTON
TENNESSEE RIVER BASIN 040801
TENNESSEE RIVER 483.40
131TVAC 06020001022 0009.050 ON
0000 FEET DEPTH

/TYPA/AMBNT/STREAM/SOLIDS

DATA LOCKED FOR 270 DAYS.

	INITIAL DATE			88/05/25	88/05/25	88/05/25	88/05/25	88/05/25	88/05/25	88/05/25	88/05/25	88/05/25
	INITIAL TIME			1035	1036	1037	1038	1039	1041	1042	1043	1043
	MEDIUM			WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	DEPTH-FT(SMK)			0.983999	0.983999	3.28	3.28	4.92	9.84	9.84	14.76	16.4
00002	HSAMPLOC	% FROM	RT BANK	17.0	17.0D	17.0	17.0D	17.0	17.0	17.0D	17.0	17.0
00008	LAB	IDENT.	NUMBER	5594	5595	5596	5597	5585	5598	5599		5600
00010	WATER	TEMP	CENT	23.5		23.5		23.5	23.5		23.3	23.1
00011	WATER	TEMP	FAHN	74.3$		74.3$		74.3$	74.3$		73.9$	73.6$
00078	TRANSP	SECCHI	METERS	1.00								
00094	CNDUCTVY	FIELD	MICROMHO	193		193		193	193		193	192
00300	DO		MG/L	5.5		5.5		5.5	5.5		5.6	5.5
00301	DO	SATUR	PERCENT	63.2$		63.2$		63.2$	63.2$		64.4$	63.2$
00400	PH		SU	7.50		7.40		7.30	7.20		7.30	7.30
00410	T ALK	CACO3	MG/L	60		60			60			60
00605	ORG N	N	MG/L	.170		.260			.250			.200
00610	NH3+NH4-	N TOTAL	MG/L	.110		.120			.110			.110
00612	UN-IONZD	NH3-N	MG/L	.002$		.002$			.0009$			.001$
00619	UN-IONZD	NH3-NH3	MG/L	.002$		.002$			.001$			.001$
00625	TOT KJEL	N	MG/L	.280		.390			.360			.310
00630	NO2&NO3	N-TOTAL	MG/L	.08		.07			.07			.07
00665	PHOS-TOT		MG/L P	.040		.010			.020			.010
00666	PHOS-DIS		MG/L P	.020		.010			.010			.010
00680	T ORG C	C	MG/L	2.3		2.6			2.6			2.3
01022	BORON	B,TOT	UG/L					50K				
01027	CADMIUM	CD,TOT	UG/L					.1K				
01051	LEAD	PB,TOT	UG/L					1K				
01067	NICKEL	NI,TOTAL	UG/L					1K				
01105	ALUMINUM	AL,TOT	UG/L					140				
32211	CHLRPHYL	A UG/L	CORRECTD	3.70	3.20	4.30	4.50		3.70	3.50		2.90
32212	CHLRPHYL	B	UG/L	1.00K	1.00K	1.00K	1.00K		1.00K	1.00K		1.00K
32214	CHLRPHYL	C	UG/L	1.00	1.00K	1.10	1.20		1.10	1.10		1.00K
32213	PHEOPHTN	A	UG/L	1.70	1.80	1.00K	1.00K		1.00K	1.60		2.70
74041	WQF	SAMPLE	UPDATED	880811	880811	880811	880811	880811	880811	880811	880811	880729
82079	TURBIDTY	LAB	NTU	5.0		5.0			5.0			5.1
84002	CODE	GENERAL	REMARKS	D1	D2	D1	D2		D1	D2		D1
84068	SERIES	CODE	ALPHA	7	8	9	10		11	12		13

TABLE A-3 (Continued)

STORET RETRIEVAL DATE 89/03/13 PGM=ALLPARM PAGE:

475304 1035
35 12 45.0 085 05 29.0 2
CHICKAMAUGA RESERVOIR
47065 TENNESSEE HAMILTON
TENNESSEE RIVER BASIN 040801
/TYPA/AMBNT/STREAM/SOLIDS TENNESSEE RIVER 483.40
131TVAC 06020001022 0009.050 ON
0000 FEET DEPTH

DATA LOCKED FOR 270 DAYS.

	INITIAL DATE			88/05/25	88/05/25	88/05/25	88/05/25	88/05/25	88/05/25	88/05/25	88/05/25	88/05/25
	INITIAL TIME			1044	1045	1048	1049	1050	1053	1055	1057	1058
	MEDIUM			WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	DEPTH-FT(SMK)			16.4	19.68	24.6	26.24	29.52	34.44	39.36	42.64	44.28
00002	HSAMPLOC	% FROM	RT BANK	17.0D	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
00008	LAB	IDENT.	NUMBER	5601								
00010	WATER	TEMP	CENT		23.1	22.7	22.9	22.7	22.7	22.6	22.6	22.3
00011	WATER	TEMP	FAHN		73.6$	72.9$	73.2$	72.9$	72.9$	72.7$	72.7$	72.1$
00094	CNDUCTVY	FIELD	MICROMHO		193	193	193	193	193	192	192	192
00300	DO		MG/L		6.4	6.4	6.2	6.5	6.2	6.4	6.2	5.8
00301	DO	SATUR	PERCENT		73.6$	73.6$	71.3$	74.7$	71.3$	73.6$	71.3$	65.9$
00400	PH		SU		7.30	7.30	7.30	7.30	7.30	7.30	7.30	7.30
32211	CHLRPHYL	A UG/L	CORRECTD	3.50								
32212	CHLRPHYL	B	UG/L	1.00K								
32214	CHLRPHYL	C	UG/L	1.00								
32218	PHEOPHTN	A	UG/L	2.10								
74041	WQF	SAMPLE	UPDATED	880817	880811	880811	880729	880811	880729	880811	880729	880811
84002	CODE	GENERAL	REMARKS	D2								
84065	SERIES	CODE	ALPHA	14								

	INITIAL DATE			88/05/25	88/05/25	88/05/25	88/05/25	88/05/25	88/05/25	88/08/31	88/08/31	88/08/31
	INITIAL TIME			1059	1101	1104	1105	1106	1108	1113	1114	1114
	MEDIUM			WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	DEPTH-FT(SMK)			45.92	49.2	54.12	55.76	59.04	62.32	0.983999	0.983999	3.28
00002	HSAMPLOC	% FROM	RT BANK	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0D	17.0
00008	LAB	IDENT.	NUMBER							9626		9627
00010	WATER	TEMP	CENT	21.8	21.6	21.6	21.5	21.5	21.4	28.9		28.9
00011	WATER	TEMP	FAHN	71.2$	70.9$	70.9$	70.7$	70.7$	70.5$	84.0$		84.0$
00078	TRANSP	SECCHI	METERS							1.30		
00094	CNDUCTVY	FIELD	MICROMHO	192	189	190	190	188	190	216		216
00300	DO		MG/L	4.6	4.0	4.1	3.8	3.7	3.7	4.7		4.6
00301	DO	SATUR	PERCENT	52.3$	45.5$	46.6$	42.2$	41.1$	41.1$	60.3$		59.0$
00400	PH		SU	7.20	7.10	7.10	7.00	7.00	7.00	7.00		6.90
00410	T ALK	CACO3	MG/L							65		65
00431	T ALK	FIELD	MG/L							67		68
00605	ORG N	N	MG/L							.100		.070
00610	NH3+NH4-	N TOTAL	MG/L							.060		.050
00612	UN-IONZD	NH3-N	MG/L							.0004$		.0003$

(SAMPLE CONTINUED ON NEXT PAGE)

TABLE A-3 (Continued)

475304 1035
35 12 45.0 085 05 29.0 2
CHICKAMAUGA RESERVOIR
47065 TENNESSEE HAMILTON
TENNESSEE RIVER BASIN 040801
/TYPA/AMBNT/STREAM/SOLIDS TENNESSEE RIVER 483.40
131TVAC 06020001022 0009.050 ON
0000 FEET DEPTH

DATA LOCKED FOR 270 DAYS.

(SAMPLE CONTINUED FROM PREVIOUS PAGE)

	INITIAL DATE			88/05/25	88/05/25	88/05/25	88/05/25	88/05/25	88/05/25	88/08/31	88/08/31	88/08/31
	INITIAL TIME			1059	1101	1104	1105	1106	1108	1113	1114	1114
	MEDIUM			WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	DEPTH-FT(SMK)			45.92	49.2	54.12	55.76	59.04	62.32	0.983999	0.983999	3.28
00619	UN-IONZD	NH3-NH3	MG/L							.0005$		.0004$
00625	TOT KJEL	N	MG/L							.160		.120
00630	NO2&NO3	N-TOTAL	MG/L							.05		.05
00665	PHOS-TOT		MG/L P							.010K		.010K
00666	PHOS-DIS		MG/L P							.010K		.010K
00680	T ORG C	C	MG/L							3.8		4.6
32211	CHLRPHYL	A UG/L	CORRECTD							1.60	4.30	4.00
32212	CHLRPHYL	B	UG/L							1.00K	1.00K	1.00K
32214	CHLRPHYL	C	UG/L							1.00K	1.00K	1.00K
32218	PHEOPHTN	A	UG/L							1.00K	1.50	1.40
74041	WQF	SAMPLE	UPDATED	880729	880729	880811	880729	880729	880729	881006	881006	881006
82079	TURBIDTY	LAB	NTU							3.0		3.6
84002	CODE	GENERAL	REMARKS							D1	D2	D1
84068	SERIES	CODE	ALPHA							SQ1		SQ2

	INITIAL DATE			88/08/31	88/08/31	88/08/31	88/08/31	88/08/31	88/08/31	88/08/31	88/08/31	88/08/31
	INITIAL TIME			1115	1115	1116	1117	1117	1117	1118	1118	1119
	MEDIUM			WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	DEPTH-FT(SMK)			3.28	4.92	9.84	9.84	14.76	16.4	16.4	19.68	24.6
00002	HSAMPLOC	% FROM	RT BANK	17.0D	17.0	17.0	17.0D	17.0	17.0	17.0D	17.0	17.0
00008	LAB	IDENT.	NUMBER		9636	9628			9629			
00010	WATER	TEMP	CENT		28.9	28.9		28.9	28.9		28.7	28.1
00011	WATER	TEMP	FAHN		84.0$	84.0$		84.0$	84.0$		83.7$	82.6$
00094	CNDUCTVY	FIELD	MICROMHO		217	218		218	218		218	219
00300	DO		MG/L		4.5	4.5		4.5	4.5		4.5	4.4
00301	DO	SATUR	PERCENT		57.7$	57.7$		57.7$	57.7$		57.7$	55.7$
00400	PH		SU		6.80	6.70		6.60	6.60		6.60	6.60
00410	T ALK	CACO3	MG/L			65			65			
00431	T ALK	FIELD	MG/L			68			68			
00605	ORG N	N	MG/L			.050			.350			
00610	NH3+NH4-	N TOTAL	MG/L			.060			.050			
00612	UN-IONZD	NH3-N	MG/L			.0002$			.0001$			
00619	UN-IONZD	NH3-NH3	MG/L			.0003$			.0002$			
00625	TOT KJEL	N	MG/L			.110			.400			
00630	NO2&NO3	N-TOTAL	MG/L			.05			.05			
00665	PHOS-TOT		MG/L P			.010K			.500			
00666	PHOS-DIS		MG/L P			.010K			.020			

(SAMPLE CONTINUED ON NEXT PAGE)

TABLE A-3 (Continued)

STORET RETRIEVAL DATE 89/03/13 PGM=ALLPARM PAGE:

475304 1035
35 12 45.0 085 05 29.0 2
CHICKAMAUGA RESERVOIR
47065 TENNESSEE HAMILTON
TENNESSEE RIVER BASIN 040801
/TYPA/AMPNT/STREAM/SOLIDS TENNESSEE RIVER 483.40
131TVAC 06020001022 0009.050 ON
0000 FEET DEPTH

DATA LOCKED.FOR 270 DAYS.

(SAMPLE CONTINUED FROM PREVIOUS PAGE)

	INITIAL DATE			88/08/31	88/08/31	88/08/31	88/08/31	88/08/31	88/08/31	88/08/31	88/08/31	88/08/31
	INITIAL TIME			1115	1115	1116	1117	1117	1117	1118	1118	1119
	MEDIUM			WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	DEPTH-FT(SMK)			3.28	4.92	9.84	9.84	14.76	16.4	16.4	19.68	24.6
00680	T ORG C	C	MG/L			3.3			3.2			
01022	BORON	B,TOT	UG/L		50K							
01027	CADMIUM	CD,TOT	UG/L		.1K							
01051	LEAD	PB,TOT	UG/L		1K							
01055	MANGNESE	MN	UG/L		130.0							
01067	NICKEL	NI,TOTAL	UG/L		2							
01105	ALUMINUM	AL,TOT	UG/L		50K							
32211	CHLRPHYL	A UG/L	CORRECTD	3.70		3.70	4.50		3.20	4.00		
32212	CHLRPHYL	B	UG/L	1.00K		1.00K	1.00K		1.00K	1.00K		
32214	CHLRPHYL	C	UG/L	1.00K		1.00K	1.00K		1.00K	1.00K		
32218	PHEOPHTN	A	UG/L	1.90		2.80	1.10		2.00	2.20		
74041	WQF	SAMPLE	UPDATED	881006	881006	881006	881006	880907	881006	881006	880907	880907
82079	TURBIDTY	LAB	NTU			4.0			5.0			
84002	CODE	GENERAL	REMARKS	D2		D1	D2		D1	D2		
84068	SERIES	CODE	ALPHA		SQ3	SQ4			SQ5			

	INITIAL DATE			88/08/31	88/08/31	88/08/31	88/08/31	88/08/31	88/08/31	88/08/31	88/08/31	88/08/31
	INITIAL TIME			1119	1120	1122	1124	1126	1128	1130	1131	1132
	MEDIUM			WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	DEPTH-FT(SMK)			26.24	29.52	34.44	39.36	44.28	49.2	54.12	55.76	59.04
00002	HSAMPLOC	% FROM	RT BANK	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
00010	WATER	TEMP	CENT	27.9	27.6	27.5	27.4	27.4	27.4	27.4	27.4	27.4
00011	WATER	TEMP	FAHN	82.2$	81.7$	81.5$	81.3$	81.3$	81.3$	81.3$	81.3$	81.3$
00094	CNDUCTVY	FIELD	MICROMHO	219	219	220	220	218	219	219	219	219
00300	DO		MG/L	4.4	4.1	3.8	3.6	3.4	2.9	2.9	3.1	2.9
00301	DO	SATUR	PERCENT	55.7$	51.9$	46.9$	44.4$	42.0$	35.8$	35.8$	38.3$	35.8$
00400	PH		SU	6.60	6.60	6.60	6.50	6.50	6.50	6.50	6.60	6.60
74041	WQF	SAMPLE	UPDATED	881006	880907	880907	880907	880907	880907	880907	881006	880907

	INITIAL DATE			88/08/31	88/08/31	88/08/31
	INITIAL TIME			1135	1136	1139
	MEDIUM			WATER	WATER	WATER
	DEPTH-FT(SMK)			63.96	65.6	68.88
00002	HSAMPLOC	% FROM	RT BANK	17.0	17.0	17.0
00010	WATER	TEMP	CENT	27.4	27.4	27.3
00011	WATER	TEMP	FAHN	81.3$	81.3$	81.1$
00094	CNDUCTVY	FIELD	MICROMHO	220	219	218

SAMPLE CONTINUED ON NEXT PAGE)

TABLE A-3 (Continued)

475304 1035
35 12 45.0 085 05 29.0 2
CHICKAMAUGA RESERVOIR
47065 TENNESSEE HAMILTON
TENNESSEE RIVER BASIN 040801
/TYPA/AMBNT/STREAM/SOLIDS TENNESSEE RIVER 483.40
131TVAC 06020001022 0009.050 ON
0000 FEET DEPTH

DATA LOCKED FOR 270 DAYS.

(SAMPLE CONTINUED FROM PREVIOUS PAGE)

	INITIAL DATE			88/08/31	88/08/31	88/08/31
	INITIAL TIME			1135	1136	1139
	MEDIUM			WATER	WATER	WATER
	DEPTH-FT(SMK)			63.96	65.6	68.88
00300	DO		MG/L	2.9	3.2	3.5
00301	DO	SATUR	PERCENT	35.8$	39.5$	43.2$
00400	PH		SU	6.60	6.60	6.60
74041	UDF	SAMPLE	UPDATED	880907	881006	880907

APPENDIX B

PHYTOPLANKTON DATA ON

MAY 25 AND AUGUST 31, 1988

Table B-1. Percentage Composition of Phytoplankton Groups During Operational Monitoring Periods (1988), Sequoyah Nuclear Plant, Chickamauga Reservoir

		Inplant Stations					
Date	Phytoplankton Group	Diffuser Pond-AM	Diffuser Pond-PM	Intake Pond-AM	Intake Pond-PM	Discharge Channel-AM	Discharge Channel-PM
May 1988	Chlorophyta	48	67	42	59	63	63
	Chrysophyta	48	33	38	32	31	36
	Cryptophyta	0	0	0	2	0	1
	Cyanophyta	5	0	20	6	6	0
	Euglenophyta	0	0	0	0	0	0
	Pyrrophyta	0	0	0	0	0	0
Aug. 1988	Chlorophyta	15	39	29	32	32	30
	Chrysophyta	20	19	15	16	18	15
	Cryptophyta	2	1	1	1	1	1
	Cyanophyta	61	38	53	49	47	51
	Euglenophyta	1	2	1	1	1	1
	Pyrrophyta	1	1	0	1	1	1

Table B-2. Percentage Composition of Phytoplankton Groups During Operational Monitoring Periods (1988), Sequoyah Nuclear Plant, Chickamauga Reservoir

Date	Phytoplankton Group	Tennessee River mile 483.4	484.5
May 1988	Chlorophyta	50	50
	Chrysophyta	38	34
	Cryptophyta	1	1
	Cyanophyta	11	15
	Euglenophyta	0	0
	Pyrrophyta	0	0
August 1988	Chlorophyta	28	28
	Chrysophyta	11	13
	Cryptophyta	1	1
	Cyanophyta	58	57
	Euglenophyta	1	1
	Pyrrophyta	0	1

Table B-3. Individual Sample Totals, Means, Standard Deviations, and Coefficients of Variation for Total Phytoplankton and Group Cell Densities (Number/Liter) During Operational Monitoring (1988), Sequoyah Nuclear Plant, Chickamauga Reservoir

	Intake pond									
	Morning sample					Afternoon sample				
	Sample 1	Sample 2	Mean	STD	CV	Sample 1	Sample 2	Mean	STD	CV
MAY 1988										
Chlorophyta	214,728	208,504	211,616	4,401	2	301,864	283,192	292,528	13,203	5
Chrysophyta	96,472	283,192	189,832	132,031	70	99,584	214,728	157,156	81,419	52
Cryptophyta	0	0	0	0	.	6,224	15,560	10,892	6,602	61
Cyanophyta	62,240	136,928	99,584	52,812	53	24,896	37,344	31,120	8,802	28
Euglenophyta	0	0	0	0	.	3,112	0	1,556	2,201	141
Pyrrophyta	0	0	0	0	.	0	0	0	0	.
Total	373,440	628,624	501,032	180,442	36	435,680	550,824	493,252	81,419	17
AUGUST 1988										
Chlorophyta	796,672	709,536	753,104	61,614	8	625,512	504,144	564,828	85,820	15
Chrysophyta	373,440	404,560	389,000	22,005	6	304,976	242,736	273,856	44,010	16
Cryptophyta	18,672	28,008	23,340	6,602	28	18,672	6,224	12,448	8,802	71
Cyanophyta	1,615,128	1,104,760	1,359,944	360,885	27	1,014,512	715,760	865,136	211,250	24
Euglenophyta	21,784	21,784	21,784	0	0	24,896	24,896	24,896	0	0
Pyrrophyta	6,224	15,560	10,892	6,602	61	21,784	18,672	20,228	2,201	11
Total	2,831,920	2,284,208	2,558,064	387,291	15	2,010,352	1,512,432	1,761,392	352,083	20

Table B-3 (Continued)

	Diffuser pond									
	Morning sample					Afternoon sample				
	Sample 1	Sample 2	Mean	STD	CV	Sample 1	Sample 2	Mean	STD	CV
				MAY 1988						
Chlorophyta	168,048	186,720	177,384	13,203	7	258,296	230,288	244,292	19,805	8
Chrysophyta	149,376	205,392	177,384	39,609	22	161,824	74,688	118 256	61,614	52
Cryptophyta	0	0	0	0	.	0	0	0	0	.
Cyanophyta	37,344	0	18,672	26,406	141	0	0	0	0	.
Euglenophyta	0	0	0	0	.	0	0	0	0	.
Pyrrophyta	0	0	0	0	.	0	0	0	0	.
Total	354,768	392,112	373,440	26 406	7	420,120	304,976	362,548	81,419	22
				AUGUST 1988						
Chlorophyta	96,472	56,016	76,244	28,607	38	398,336	264,520	331,428	94,622	29
Chrysophyta	112,032	96,472	104,252	11,003	11	186,720	130,704	158,712	39,609	25
Cryptophyta	12,448	9,336	10,892	2,201	20	12,448	9,336	10,892	2,201	20
Cyanophyta	301,864	320,536	311,200	13,203	4	332,984	320,536	326,760	8,802	3
Euglenophyta	6,224	3,112	4,668	2,201	47	21,784	9,336	15,560	8,802	57
Pyrrophyta	3,112	3,112	3,112	0	0	9,336	6,224	7,780	2,201	28
Total	532,152	488,584	510,368	30,807	6	961,608	740,656	851,132	156,237	18

Table B-3 (Continued)

	Discharge channel									
	Morning sample					Afternoon sample				
	Sample 1	Sample 2	Mean	STD	CV	Sample 1	Sample 2	Mean	STD	CV
				MAY 1988						
Chlorophyta	164,936	360,992	262,964	138,633	53	326,760	385,888	356,324	41,810	12
Chrysophyta	143,152	121,368	132,260	15,404	12	196,056	211,616	203,836	11,003	5
Cryptophyta	0	0	0	0	.	3,112	3,112	3,112	0	0
Cyanophyta	12,448	37,344	24,896	17,604	71	0	0	0	0	.
Euglenophyta	0	0	0	0	.	0	3,112	1,556	2,201	141
Pyrrophyta	0	0	0	0	.	3,112	0	1,556	2,201	141
Total	320,536	519,704	420,120	140,833	34	529,040	603,728	566,384	52,812	9
				AUGUST 1988						
Chlorophyta	597,504	463,688	530,596	94,622	18	479,248	360,992	420,120	83,620	20
Chrysophyta	317,424	280,080	298,752	26,406	9	239,624	177,384	208,504	44,010	21
Cryptophyta	21,784	12,448	17,116	6,602	39	18,672	12,448	15,560	4,401	28
Cyanophyta	886,920	675,304	781,112	149,635	19	737,544	675,304	706,424	44,010	6
Euglenophyta	24,896	21,784	23,340	2,201	9	15,560	6,224	10,892	6,602	61
Pyrrophyta	18,672	9,336	14,004	6,602	47	15,560	18,672	17,116	2,201	13
Total	1,867,200	1,462,640	1,664,920	286,067	17	1,506,208	1,251,024	1,378,616	180,442	13

Table B-4. Individual Sample Totals, Means, Standard Deviations, and Coefficients of Variation for Total Phytoplankton and Group Cell Densities (Number/Liter) During Operational Monitoring (1988), Sequoyah Nuclear Plant, Chickamauga Reservoir

MAY 1988

	TRM 483.4					TRM 484.5				
Depth (M)	Sample 1	Sample 2	Mean	STD	CV	Sample 1	Sample 2	Mean	STD	CV
					Chlorophyta					
0.3	818,456	737,544	778,000	57,213	7	1,176,336	1,039,408	1,107,872	96,823	9
1.0	597,504	734,432	665,968	96,823	15	728,208	784,224	756,216	39,609	5
3.0	609,952	672,192	641,072	44,010	7	675,304	628,624	651,964	33,008	5
5.0	560,160	454,352	507,256	74,818	15	597,504	522,816	560,160	52,812	9
8.0	497,920	541,488	519,704	30,807	6	703,312	547,712	625,512	110,026	18
11.0	351,656	304,976	328,316	33,008	10	560,160	547,712	553,936	8,802	2
14.0	80,912	541,488	311,200	325,676	105	398,336	389,000	393,668	6,602	2
17.0	413,896	364,104	389,000	35,208	9					
					Chrysophyta					
0.3	504,144	417,008	460,576	61,614	13	553,936	665,968	609,952	79,219	13
1.0	445,016	373,440	409,228	50,612	12	594,392	563,272	578,832	22,005	4
3.0	538,376	510,368	524,372	19,805	4	401,448	342,320	371,884	41,810	11
5.0	357,880	389,000	373,440	22,005	6	392,112	311,200	351,656	57,213	16
8.0	345,432	373,440	359,436	19,805	6	441,904	382,776	412,340	41,810	10
11.0	426,344	382,776	404,560	30,807	8	519,704	435,680	477,692	59,414	12
14.0	96,472	488,584	292,528	277,265	95	317,424	301,864	309,644	11,003	4
17.0	354,768	326,760	340,764	19,805	6					

Table B-4 (Continued)

MAY 1988

Depth (M)	TRM 483.4 Sample 1	TRM 483.4 Sample 2	TRM 483.4 Mean	TRM 483.4 STD	TRM 483.4 CV	TRM 484.5 Sample 1	TRM 484.5 Sample 2	TRM 484.5 Mean	TRM 484.5 STD	TRM 484.5 CV
					Cryptophyta					
0.3	6,224	12,448	9,336	4,401	47	18,672	9,336	14,004	6,602	47
1.0	6,224	3,112	4,668	2,201	47	12,448	9,336	10,892	2,201	20
3.0	12,448	9,336	10,892	2,201	20	15,560	9,336	12,448	4,401	35
5.0	12,448	9,336	10,892	2,201	20	6,224	12,448	9,336	4,401	47
8.0	6,224	15,560	10,892	6,602	61	12,448	6,224	9,336	4,401	47
11.0	6,224	12,448	9,336	4,401	47	6,224	9,336	7,780	2,201	28
14.0	0	6,224	3,112	4,401	141	12,448	18,672	15,560	4,401	28
17.0	6,224	12,448	9,336	4,401	47					
					Cyanophyta					
0.3	342,320	149,376	245,848	136,432	55	90,248	158,712	124,480	48,411	39
1.0	118,256	146,264	132,260	19,805	15	230,288	255,184	242,736	17,604	7
3.0	84,024	49,792	66,908	24,206	36	348,544	239,624	294,084	77,018	26
5.0	37,344	62,240	49,792	17,604	35	211,616	239,624	225,620	19,805	9
8.0	124,480	205,392	164,936	57,213	35	208,504	149,376	178,940	41,810	23
11.0	252,072	37,344	144,708	151,836	105	164,936	130,704	147,820	24,206	16
14.0	0	71,576	35,788	50,612	141	124,480	174,272	149,376	35,208	24
17.0	24,896	56,016	40,456	22,005	54					

Table B-4 (Continued)

MAY 1988

Depth (M)	TRM 483.4 Sample 1	TRM 483.4 Sample 2	TRM 483.4 Mean	TRM 483.4 STD	TRM 483.4 CV	TRM 484.5 Sample 1	TRM 484.5 Sample 2	TRM 484.5 Mean	TRM 484.5 STD	TRM 484.5 CV
					Euglenophyta					
0.3	0	0	0	0	.	0	9,336	4,668	6,602	141
1.0	0	0	0	0	.	0	9,336	4,668	6,602	141
3.0	0	0	0	0	.	3,112	6,224	4,668	2,201	47
5.0	0	0	0	0	.	3,112	6,224	4,668	2,201	47
8.0	3,112	6,224	4,668	2,201	47	3,112	6,224	4,668	2,201	47
11.0	6,224	3,112	4,668	2,201	47	6,224	3,112	4,668	2,201	47
14.0	0	0	0	0	.	3,112	3,112	3,112	0	0
17.0	3,112	3,112	3,112	0	0					
					Pyrrophyta					
0.3	0	0	0	0	.	0	6,224	3,112	4,401	141
1.0	0	0	0	0	.	6,224	3,112	4,668	2,201	47
3.0	0	0	0	0	.	3,112	3,112	3,112	0	0
5.0	6,224	0	3,112	4,401	141	6,224	6,224	6,224	0	0
8.0	0	0	0	0	.	3,112	6,224	4,668	2,201	47
11.0	0	0	0	0	.	3,112	3,112	3,112	0	0
14.0	0	3,112	1,556	2,201	141	3,112	6,224	4,668	2,201	47
17.0	0	3,112	1,556	2,201	141					

Table B-4 (Continued)

MAY 1988

Depth (M)	TRM 483.4 Sample 1	TRM 483.4 Sample 2	TRM 483.4 Mean	TRM 483.4 STD	TRM 483.4 CV	TRM 484.5 Sample 1	TRM 484.5 Sample 2	TRM 484.5 Mean	TRM 484.5 STD	TRM 484.5 CV
					Total					
0.3	1,671,144	1,316,376	1,493,760	250,859	17	1,839,192	1,888,984	1,864,088	35,208	2
1.0	1,167,000	1,257,248	1,212,124	63,815	5	1,571,560	1,624,464	1,598,012	37,409	2
3.0	1244,800	1,241,688	1,243,244	2,201	0	1,447,080	1,229,240	1,338,160	154,036	12
5.0	974,056	914,928	944,492	41,810	4	1,216,792	1,098,536	1,157,664	83,620	7
8.0	977,168	1,142,104	1,059,636	116,627	11	1,372,392	1,098,536	1,235,464	193,645	16
11.0	1,042,520	740,656	891,588	213,450	24	1,260,360	1,129,656	1,195,008	92,422	8
14.0	177,384	1,110,984	644,184	660,155	102	858,912	893,144	876,028	24,206	3
17.0	802,896	765,552	784,224	26,406	3					

Table B-4 (Continued)

AUGUST 1988

Depth (M)	TRM 483.4 Sample 1	TRM 483.4 Sample 2	TRM 483.4 Mean	TRM 483.4 STD	TRM 483.4 CV	TRM 484.5 Sample 1	TRM 484.5 Sample 2	TRM 484.5 Mean	TRM 484.5 STD	TRM 484.5 CV
					Chlorophyta					
0.3	1,331,936	1,185,672	1,258,804	103,424	8	1,409,736	1,350,608	1,380,172	41,810	3
1.0	1,251,024	1,002,064	1,126,544	176,041	16	1,092,312	977,168	1,034,740	81,419	8
3.0	1,263,472	1,110,984	1,187,228	107,825	9	939,824	902,480	921,152	26,406	3
5.0	821,568	740,656	781,112	57,213	7	809,120	600,616	704,868	147,435	21
8.0	634,848	572,608	603,728	44,010	7	538,376	323,648	431,012	151,836	35
11.0	466,800	429,456	448,128	26,406	6	395,224	320,536	357,880	52,812	15
14.0	600,616	473,024	536,820	90,221	17	420,120	351,656	385,888	48,411	13
17.0	476,136	473,024	474,580	2,201	0					
20.0	1,216,792	1,008,288	1,112,540	147,435	13					
					Chrysophyta					
0.3	522,816	432,568	477,692	63,815	13	547,712	479,248	513,480	48,411	9
1.0	476,136	389,000	432,568	61,614	14	687,752	563,272	625,512	88,021	14
3.0	529,040	401,448	465,244	90,221	19	423,232	376,552	399,892	33,008	8
5.0	326,760	323,648	325,204	2,201	1	245,848	211,616	228,732	24,206	11
8.0	214,728	214,728	214,728	0	0	152,488	180,496	166,492	19,805	12
11.0	211,616	186,720	199,168	17,604	9	233,400	171,160	202,280	44,010	22
14.0	186,720	177,384	182,052	6,602	4	233,400	196,056	214,728	26,406	12
17.0	224,064	177,384	200,724	33,008	16					
20.0	581,944	466,800	524,372	81,419	16					

Table B-4 (Continued)

AUGUST 1988

Depth (M)	TRM 483.4 Sample 1	TRM 483.4 Sample 2	TRM 483.4 Mean	TRM 483.4 STD	TRM 483.4 CV	TRM 484.5 Sample 1	TRM 484.5 Sample 2	TRM 484.5 Mean	TRM 484.5 STD	TRM 484.5 CV
					Cryptophyta					
0.3	31,120	40,456	35,788	6,602	18	43,568	31,120	37,344	8,802	24
1.0	18,672	12,448	15,560	4,401	28	31,120	21,784	26,452	6,602	25
3.0	21,784	31,120	26,452	6,602	25	24,896	40,456	32,676	11,003	34
5.0	21,784	28,008	24,896	4,401	18	18,672	15,560	17,116	2,201	13
8.0	12,448	18,672	15,560	4,401	28	18,672	9,336	14,004	6,602	47
11.0	12,448	21,784	17,116	6,602	39	31,120	21,784	26,452	6,602	25
14.0	9,336	12,448	10,892	2,201	20	18,672	12,448	15,560	4,401	28
17.0	6,224	18,672	12,448	8,802	71					
20.0	43,568	34,232	38,900	6,602	17					
					Cyanophyta					
0.3	3,899,336	3,105,776	3,502,556	561,132	16	2,520,720	2,894,160	2,707,440	264,062	10
1.0	2,645,200	2,075,704	2,360,452	402,694	17	2,629,640	2,352,672	2,491,156	195,846	8
3.0	2,243,752	2,274,872	2,259,312	22,005	1	1,966,784	2,156,616	2,061,700	134,231	7
5.0	1,960,560	2,041,472	2,001,016	57,213	3	1,372,392	1,531,104	1,451,748	112,226	8
8.0	1,176,336	1,120,320	1,148,328	39,609	3	942,936	575,720	759,328	259,661	34
11.0	1,123,432	746,880	935,156	266,262	28	600,616	485,472	543,044	81,419	15
14.0	566,384	566,384	566,384	0	0	703,312	494,808	599,060	147,435	25
17.0	914,928	644,184	779,556	191,445	25					
20.0	2,383,792	1,854,752	2,119,272	374,088	18					

Table B-4 (Continued)

AUGUST 1988

Depth (M)	TRM 483.4 Sample 1	Sample 2	Mean	STD	CV	TRM 484.5 Sample 1	Sample 2	Mean	STD	CV
					Euglenophyta					
0.3	49,792	37,344	43,568	8,802	20	49,792	43,568	46,680	4,401	9
1.0	56,016	31,120	43,568	17,604	40	49,792	34,232	42,012	11,003	26
3.0	49,792	31,120	40,456	13,203	33	43,568	34,232	38,900	6,602	17
5.0	49,792	46,680	48,236	2,201	5	31,120	24,896	28,008	4,401	16
8.0	34,232	18,672	26,452	11,003	42	9,336	6,224	7,780	2,201	28
11.0	12,448	6,224	9,336	4,401	47	24,896	12,448	18,672	8,802	47
14.0	21,784	9,336	15,560	8,802	57	28,008	21,784	24,896	4,401	18
17.0	21,784	18,672	20,228	2,201	11					
20.0	59,128	59,128	59,128	0	0					
					Pyrrophyta					
0.3	28,008	18,672	23,340	6,602	28	18,672	28,008	23,340	6,602	28
1.0	15,560	18,672	17,116	2,201	13	37,344	31,120	34,232	4,401	13
3.0	6,224	15,560	10,892	6,602	61	21,784	24,896	23,340	2,201	9
5.0	9,336	18,672	14,004	6,602	47	15,560	6,224	10,892	6,602	61
8.0	6,224	6,224	6,224	0	0	21,784	12,448	17,116	6,602	39
11.0	9,336	3,112	6,224	4,401	71	12,448	12,448	12,448	0	0
14.0	12,448	3,112	7,780	6,602	85	12,448	9,336	10,892	2,201	20
17.0	6,224	6,224	6,224	0	0					
20.0	21,784	18,672	20,228	2,201	11					

Table B-4 (Continued)

AUGUST 1988

Depth (M)	TRM 483.4 Sample 1	TRM 483.4 Sample 2	TRM 483.4 Mean	TRM 483.4 STD	TRM 483.4 CV	TRM 484.5 Sample 1	TRM 484.5 Sample 2	TRM 484.5 Mean	TRM 484.5 STD	TRM 484.5 CV
					Total					
0.3	5,863,008	4,820,488	5,341,748	737,173	14	4,590,200	4,826,712	4,708,456	167,239	4
1.0	4,462,608	3,529,008	3,995,808	660,155	17	4,527,960	3,980,248	4,254,104	387,291	9
3.0	4,114,064	3,865,104	3,989,584	176,041	4	3,420,088	3,535,232	3,477,660	81,419	2
5.0	3,189,800	3,199,136	3,194,468	6,602	0	2,492,712	2,390,016	2,441,364	72,617	3
8.0	2,078,816	1,951,224	2,015,020	90,221	4	1,683,592	1,107,872	1,395,732	407,096	29
11.0	1,836,080	1,394,176	1,615,128	312,473	19	1,297,704	1,023,848	1,160,776	193,645	17
14.0	1,397,288	1,241,688	1,319,488	110,026	8	1,415,960	1,086,088	1,251,024	233,255	19
17.0	1,649,360	1,338,160	1,493,760	220,052	15					
20.0	4,307,008	3,441,872	3,8744,40	611,744	16					

Table B-5. Mean Phytoplankton Densities (Number X 100)/at Each Sample Station (Depths Combined) During Operational Monitoring (1988), Sequoyah Nuclear Plant, Chickamauga Reservoir

	May 1988							
	Tennessee River Mile							
			Intake Pond		Diffuser Pond		Discharge Channel	
	483.4	484.5	AM	PM	AM	PM	AM	PM
Chlorophyta								
Acanthosphaera	0	0	0	0	0	0	0	0
Actinastrum	0	0	0	0	0	0	0	0
Ankistrodesmus	97	213	16	47	93	78	62	93
Characium	4	0	0	0	0	0	0	0
Chlamydomonas	95	160	0	78	0	0	0	0
Chlorella	41	47	0	0	0	0	0	0
Chodatella	6	51	0	0	0	0	0	0
Coelastrum	286	462	249	0	124	218	0	124
Cosmarium	0	0	0	0	0	0	0	0
Crucigenia	336	347	0	93	249	0	140	0
Dictyosphaerium	580	578	327	405	124	856	654	731
Elakatothrix	0	0	0	0	0	0	0	0
Euastrum	0	0	0	0	0	0	0	0
Eudorina	0	0	0	0	0	0	0	0
Franceia	12	69	16	0	0	0	0	0
Gloeoactinium	35	0	0	0	0	0	0	0
Gloeocystis	0	0	0	0	0	0	0	0
Golenkinia	16	71	0	0	47	0	31	0
Gonium	0	0	0	0	0	0	0	0
Kirchneriella	336	609	31	31	62	187	62	109
Micractinium	191	400	0	498	0	249	0	622
Oocystis	8	0	0	0	0	0	0	62
Pandorina	0	0	0	0	0	0	0	0
Pediastrum	233	258	249	0	124	0	0	249
Polyedriopsis	0	0	0	0	0	0	0	0
Pteromonas	2	0	0	0	0	0	0	0
Scenedesmus	2,863	3,134	1,214	1,774	934	809	1,680	1,540
Schroederia	23	227	16	0	0	31	0	31
Selenastrum	0	4	0	0	0	0	0	0
Staurastrum	0	0	0	0	0	0	0	0
Tetrastrum	8	0	0	0	0	0	0	0
Treubaria	4	11	0	0	16	16	0	0

Table B-5. (Continued)

	May 1988							
	Tennessee River Mile							
			Intake Pond		Diffuser Pond		Discharge Channel	
	483.4	484.5	AM	PM	AM	PM	AM	PM
Chrysophyta								
Achnanthes	10	9	0	0	0	0	0	0
Asterionella	105	0	47	0	0	0	62	0
Attheya	66	73	0	0	16	0	62	31
Chaetoceros	222	529	0	78	0	0	0	0
Dinobryon	134	173	0	0	0	0	0	31
Fragilaria	1,379	1,405	809	202	638	622	171	1,011
Melosira	1,622	1,776	949	1,120	1,011	358	840	685
Navicula	8	9	16	16	0	16	16	0
Nitzschia	0	0	0	0	0	0	0	0
Ophiocytium	0	0	0	0	0	0	0	0
Pleurosigma	0	0	0	16	0	0	0	0
Rhizosolenia	9	129	0	16	31	0	16	0
Rhoicosphenia	0	4	0	0	0	16	0	0
Stephanodiscus	101	122	47	31	31	31	16	109
Synedra	216	216	31	93	47	140	78	78
Tabellaria	0	0	0	0	0	0	62	0
Cryptophyta								
Chroomonas	86	113	0	109	0	0	0	31
Cyanophyta								
Anabaena	45	0	0	0	0	0	0	0
Anacystis	0	238	249	0	0	0	0	0
Merismopedia	620	874	124	311	187	0	249	0
Oscillatoria	436	836	622	0	0	0	0	0
Raphidiopsis	0	0	0	0	0	0	0	0
Euglenophyta								
Cryptoglena	0	0	0	0	0	0	0	0
Euglena	0	7	0	0	0	0	0	0
Phacus	0	0	0	0	0	0	0	0
Trachelomonas	16	38	0	16	0	0	0	16
Pyrrophyta								
Ceratium	6	13	0	0	0	0	0	16
Glenodinium	0	0	0	0	0	0	0	0
Gymnodinium	2	29	0	0	0	0	0	0
Peridinium	0	0	0	0	0	0	0	0

Table B-5. (Continued)

	August 1988							
	Tennessee River Mile							
			Intake Pond		Diffuser Pond		Discharge Channel	
	483.4	484.5	AM	PM	AM	PM	AM	PM
Chlorophyta								
Acanthosphaera	45	56	109	47	0	16	78	47
Actinastrum	81	107	0	0	0	0	0	0
Ankistrodesmus	190	169	311	171	0	0	140	124
Characium	0	0	0	0	0	0	0	0
Chlamydomonas	104	98	78	109	0	31	78	78
Chlorella	107	80	78	16	0	0	62	31
Chodatella	57	96	47	31	0	0	16	62
Coelastrum	341	293	311	389	0	249	342	124
Cosmarium	7	0	0	0	0	0	0	0
Crucigenia	541	654	591	373	0	342	311	0
Dictyosphaerium	351	307	62	202	0	436	373	560
Elakatothrix	105	49	62	0	0	0	93	0
Euastrum	9	153	62	78	0	0	0	0
Eudorina	235	205	0	0	0	0	0	0
Franceia	0	0	0	0	0	0	0	0
Gloeoactinium	88	111	0	0	0	0	0	218
Gloeocystis	36	0	0	0	0	0	0	0
Golenkinia	114	69	249	78	0	31	93	47
Gonium	97	98	0	467	0	0	0	0
Kirchneriella	517	371	265	0	0	124	311	342
Micractinium	287	405	871	451	0	124	202	0
Oocystis	80	62	187	62	0	0	187	62
Pandorina	83	391	498	373	0	0	249	249
Pediastrum	532	422	685	405	0	560	436	405
Polyedriopsis	2	2	0	0	0	0	0	0
Pteromonas	38	47	47	31	0	16	47	16
Scenedesmus	4,070	2,925	2,723	2,163	731	1,276	2,147	1,727
Schroederia	114	133	140	62	31	93	109	78
Selenastrum	0	0	0	0	0	0	0	0
Staurastrum	50	91	78	62	0	16	31	31
Tetrastrum	21	9	0	62	0	0	0	0
Treubaria	64	49	78	16	0	0	0	0
Chrysophyta								
Achnanthes	137	156	218	78	0	78	280	16
Asterionella	0	0	0	0	0	0	0	0
Attheya	130	96	0	31	0	0	109	16
Chaetoceros	249	422	622	156	0	0	296	156
Cocconeis	0	0	0	140	0	0	0	0
Cymbella	29	49	31	16	0	16	16	0

Table B-5. (Continued)

	August 1988							
	Tennessee River Mile							
			Intake Pond		Diffuser Pond		Discharge Channel	
	483.4	484.5	AM	PM	AM	PM	AM	PM
Dinobryon	0	2	0	0	0	0	0	0
Fragilaria	819	654	591	342	0	156	436	265
Melosira	1,397	1,432	1,961	1,494	731	902	1,245	1,229
Navicula	97	71	47	16	47	47	0	31
Nitzschia	10	18	0	0	0	16	0	16
Ophiocytium	7	2	0	0	16	0	0	0
Pleurosigma	0	0	0	0	0	0	0	0
Rhizosolenia	92	78	78	93	0	0	78	47
Rhoicosphenia	0	0	0	0	0	0	0	0
Stephanodiscus	195	184	62	140	31	78	156	140
Synedra	195	196	280	233	218	296	373	171
Tabellaria	0	0	0	0	0	0	0	0
Cryptophyta								
Chroomonas	220	242	233	124	109	109	171	156
Cyanophyta								
Anabaena	972	947	607	1,027	0	249	420	467
Anacystis	2,132	2,781	1,540	1,307	0	778	1,525	1,276
Merismopedia	5,788	4,190	4,730	3,392	1,587	1,043	3,081	2,863
Oscillatoria	7,400	6,180	5,477	2,116	1,120	871	2,116	1,618
Raphidiopsis	1,122	1,065	1,245	809	405	327	669	840
Euglenophyta								
Cryptoglena	2	0	0	0	0	0	0	0
Euglena	268	209	187	218	31	93	140	109
Phacus	71	87	31	31	16	62	93	0
Trachelomonas	0	0	0	0	0	0	0	0
Pyrrophyta								
Ceratium	33	33	31	31	16	0	62	16
Glenodinium	0	0	0	0	16	0	0	0
Gymnodinium	47	78	62	16	0	31	62	31
Peridinium	45	78	16	156	0	47	16	124

Table B-6. Sequoyah Nuclear Plant Special Plankton Fluorometry Results During May and August 1988

Sample Location	Raw Fluorescence	Corrected Chlorophyll a	Fluorescence Response Index
MAY			
Intake--a.m.	4.50	2.4	0.625
Discharge--a.m.	2.90	2.4	0.617
Diffuser--a.m.	2.80	1.6	0.631
TRM 484.5 -0.3	17.70	6.7	0.494
TRM 484.5 -1.0	18.01	6.3	0.561
TRM 484.5 -3.0	18.64	6.4	0.435
TRM 484.5 -5.0	17.38	5.9	0.596
TRM 484.5 -8.0	15.17		0.601
TRM 484.5-11.0	15.17		0.596
TRM 484.5-14.0	14.54		0.560
TRM 484.5-17.0			
TRM 484.5-20.0			
TRM 484.4 -0.3	11.38	3.4	0.431
TRM 484.4 -1.0	11.06	4.4	0.453
TRM 484.4 -3.0	10.74	3.6	0.485
TRM 484.4 -5.0	9.48	3.2	0.583
TRM 484.4 -8.0	12.96		0.520
TRM 484.4-11.0	12.01		0.538
TRM 484.4-14.0	8.22		0.458
TRM 484.4-17.0	12.64		0.474
TRM 484.5-20.0			
Intake--p.m.	6.95	3.7	0.585
Discharge--p.m.	3.70	1.3	0.591
Diffuser--p.m.	2.20	1.6	0.585

Raw fluorescence versus Chlorophyll a:
Correlation coefficient (r = 0.966)

Table B-6 (Continued)

Sample Location	Raw Fluorescence	Corrected Chlorophyll a	Fluorescence Response Index
AUGUST			
Intake--a.m.	17.70	6.1	0.479
Discharge--a.m.	10.74	5.6	0.346
Diffuser--a.m.	9.48	5.3	0.348
TRM 484.5 -0.3	20.54	6.0	0.473
TRM 484.5 -1.0	20.86	6.4	0.465
TRM 484.5 -3.0	21.17	6.8	0.471
TRM 484.5 -5.0	19.59	5.0	0.456
TRM 484.5 -8.0	16.12		0.496
TRM 484.5-11.0	14.54		0.515
TRM 484.5-14.0	13.27		0.585
TRM 484.5-17.0			
TRM 484.5-20.0			
TRM 483.4 -0.3	13.27	3.0	0.490
TRM 484.4 -1.0	12.01	3.9	0.500
TRM 484.4 -3.0	12.01	4.1	0.520
TRM 484.4 -5.0	11.38	3.6	0.505
TRM 484.4 -8.0	12.64		0.514
TRM 484.4-11.0	11.38		0.526
TRM 484.4-14.0	11.38		0.526
TRM 484.4-17.0	11.38		0.505
TRM 484.5-20.0	11.38		0.505
Intake--p.m.	14.54	7.2	
Discharge--p.m.	11.38	4.8	
Diffuser--p.m.	8.85	3.7	

Raw fluorescence versus Chlorophyll a:
Correlation coefficient (r = 0.61)

Table B-7. Chlorophyll a Concentrations, Phaeophytin a Concentrations, and Phaeophytin Index Values at Each Sample Location During Operational Monitoring (1988), Sequoyah Nuclear Plant, Chickamauga Reservoir

			Intake Pond			Diffuser Pond			Discharge Channel		
Date	Depth (m)	Sample No.	Chl a mg/m^3	Pheo a mg/m^3	Pheo Index	Chl a mg/m^3	Pheo a mg/m^3	Pheo Index	Chl a mg/m^3	Pheo a mg/m^3	Pheo Index
May 88	mid	a.m.	3.40	1.50	1.43	2.80	1.90	1.32	3.10	1.10	1.47
		p.m.	4.20	1.00	1.61	2.30	1.00	1.43	1.80	1.00	1.45
Aug. 88	mid	a.m.	8.50	3.60	1.44	7.30	2.90	1.45	7.20	2.40	1.49
		p.m.	9.40	3.30	1.48	5.50	2.80	1.40	6.60	2.70	1.45

Table B-7. (Continued)

Date	Depth (m)	Sample No.	TRM 483.4 Chl a mg/m^3	TRM 483.4 Pheo a mg/m^3	TRM 483.4 Pheo Index	TRM 484.5 Chl a mg/m^3	TRM 484.5 Pheo a mg/m^3	TRM 484.5 Pheo Index
May 88	0.3	a.m.	4.80	1.70	1.48	8.10	1.70	1.57
		p.m.	4.40	1.80	1.44	7.50	1.40	1.57
	1.0	a.m.	4.90	1.00	1.59	8.30	3.20	1.46
		p.m.	4.90	1.00	1.63	7.80	2.00	1.53
	3.0	a.m.	4.30	1.00	1.58	7.80	2.50	1.50
		p.m.	4.50	1.60	1.48	8.50	2.70	1.50
	5.0	a.m.	4.60	2.70	1.37	7.70	1.80	1.55
		p.m.	4.80	2.10	1.43	7.60	3.40	1.43
Aug. 88	0.3	a.m.	2.20	1.00	1.46	6.70	1.90	1.51
		p.m.	5.30	1.50	1.52	8.40	2.50	1.51
	1.0	a.m.	5.00	1.40	1.52	8.70	2.60	1.51
		p.m.	5.00	1.90	1.47	7.20	2.00	1.52
	3.0	a.m.	5.60	2.80	1.40	7.40	2.20	1.51
		p.m.	5.30	1.10	1.57	8.80	1.40	1.59
	5.0	a.m.	4.60	2.00	1.43	6.60	2.20	1.49
		p.m.	5.40	2.20	1.45	6.60	2.90	1.44

Table B-8. Carbon Assimilation Rates at Each Sample Location During Operational Monitoring (1988), Sequoyah Nuclear Plant, Chickamauga Reservoir

			$mg^3 C/m$ /hour	
Date	Depth (m)	Sample No.	TRM 483.4	TRM 484.5
May 1988	0.3	1	4.85	10.76
		2	5.44	10.86
		$\bar{X}$	5.14	10.81
		S	0.41	0.07
		CV	8.06	0.62
	1.0	1	4.93	9.10
		2	6.11	4.84
		$\bar{X}$	5.52	6.97
		S	0.84	3.01
		CV	15.23	43.22
	3.0	1	1.94	0.82
		2	1.78	1.85
		$\bar{X}$	1.86	1.34
		S	0.11	0.73
		CV	5.87	54.82
	5.0	1	0.00	0.70
		2	0.33	0.39
		$\bar{X}$	0.17	0.55
		S	0.23	0.22
		CV	141.42	40.70
August 1988	0.3	1	2.35	9.08
		2	1.96	7.85
		$\bar{X}$	2.15	8.47
		S	0.28	0.87
		CV	12.84	10.29
	1.0	1	1.53	5.82
		2	2.36	7.34
		$\bar{X}$	1.95	6.58
		S	0.59	1.07
		CV	30.22	16.32

Table B-8. (Continued)

Date	Depth (m)	Sample No.	mg^3C/m /hour TRM 483.4	TRM 484.5
	3.0	1	0.52	1.88
		2	0.54	NC*
		$\bar{X}$	0.53	1.88
		S	0.02	-
		CV	3.06	-
	5.0	1	0.12	0.35
		2	0.08	0.28
		$\bar{X}$	0.10	0.31
		S	0.03	0.05
		CV	28.28	16.16

*Not collected.

Table B-9. Hourly and Daily Carbon Assimilation Rates at Each Sample Location During Operational Monitoring (1988), Sequoyah Nuclear Plant, Chickamauga Reservoir

		TRM 484.4		TRM 484.5	
Date	Depth	$mg/m^3/hr$	$mg/m^2/day$	$mg/m^3/hr$	$mg/m^2/day$
May 1988	0.3	5.14		10.81	
	1.0	5.52		6.97	
	3.0	1.86		1.34	
	5.0	0.17		0.55	
	Surface to 5.0 m		125		205
Aug. 1988	0.3	2.15		8.47	
	1.0	1.95		6.58	
	3.0	0.53		1.88	
	5.0	0.10		0.31	
	Surface to 5.0 m		35		122

APPENDIX C

ZOOPLANKTON DATA ON

MAY 25 AND AUGUST 31, 1988

Table C-1 Percentage Composition of Zooplankton Groups During Operational Monitoring Periods (1988), Sequoyah Nuclear Plant, Chickamauga Reservoir

		Inplant Station					
Date	Zooplankton Group	Diffuser Pond AM	Diffuser Pond PM	Intake Pond AM	Intake Pond PM	Discharge Chan. AM	Discharge
May 1988	Cladocera	12	13	10	13	14	9
	Copepoda	70	57	21	44	54	52
	Rotifera	18	30	69	43	32	39
Aug. 1988	Cladocera	7	6	7	5	6	8
	Copepoda	40	35	18	19	34	29
	Rotifera	53	59	75	76	60	63

Table C-2. Percentage Composition of Zooplankton Groups During Operational Monitoring Periods (1988), Sequoyah Nuclear Plant, Chickamauga Reservoir

Date	Zooplankton Group	Tennessee River Mile 483.4	Tennessee River Mile 484.5
May 1988	Cladocera	32	27
	Copepoda	53	34
	Rotifera	15	39
Aug. 1988	Cladocera	6	4
	Copepoda	20	13
	Rotifera	74	84

Table C-3. Summary of Zooplankton Data Collected During Operational Monitoring Periods (1988), Sequoyah Nuclear Plant

Month/Time		River[a] Code	Group	Sample 1	Sample 2	Mean	Standard Deviation	C.V.
May 88	1015	P1	Cladocera	5,770	6,930	6,350	820.2	12.92
			Copepoda	7,987	18,480	13,234	7,419.7	56.07
			Rotifera	49,280	37,730	43,505	8,167.1	18.77
			Total	63,037	63,140	63,089	72.8	0.12
	1052	P4	Cladocera	2,952	4,491	3,722	1,088.2	29.24
			Copepoda	16,555	12,254	14,405	3,041.3	21.11
			Rotifera	10,780	6,543	8,662	2,996.0	34.59
			Total	30,287	23,288	26,788	4,949.0	18.48
	1155	P2	Cladocera	4,296	1,602	2,949	1,904.9	64.60
			Copepoda	15,713	19,672	17,693	2,799.4	15.82
			Rotifera	4,107	4,876	4,492	543.8	12.11
			Total	24,116	26,150	25,133	1,438.3	5.72
	1329	P1	Cladocera	6,181	2,736	4,459	2,436.0	54.64
			Copepoda	21,765	9,558	15,662	8,631.7	55.11
			Rotifera	16,940	13,860	15,400	2,177.9	14.14
			Total	44,886	26,154	35,520	13,245.5	37.29
	1407	P4	Cladocera	6,263	1,925	4,094	3,067.4	74.92
			Copepoda	34,908	10,412	22,660	1,721.3	76.44
			Rotifera	22,844	11,164	17,004	8,259.0	48.57
			Total	64,015	23,501	43,758	28,647.7	65.47
	1448	P2	Cladocera	3,163	2,500	2,832	468.8	16.56
			Copepoda	12,521	12,383	12,452	97.6	0.78
			Rotifera	6,673	6,673	6,673	0.0	0.00
			Total	22,357	21,556	21,957	566.4	2.58

Table C-3. (Continued)

Month/Time		River Code[a]	Group	Sample 1	Sample 2	Mean	Standard Deviation	C.V.
Aug. 88	1018	P1	Cladocera	14,930	4,512	9,721	7,366.6	75.78
			Copepoda	31,438	15,461	23,450	11,297.4	48.18
			Rotifera	148,871	49,024	98,948	70,602.5	71.35
			Total	195,239	68,997	132,118	89,266.6	67.57
	1120	P4	Cladocera	2,999	3,999	3,499	707.1	20.21
			Copepoda	18,419	17,879	18,149	381.8	2.10
			Rotifera	26,387	38,500	32,444	8,565.2	26.40
			Total	47,805	60,378	54,092	8,890.5	16.44
	1137	P2	Cladocera	1,458	2,074	1,766	435.6	24.66
			Copepoda	8,523	13,287	10,905	3,368.7	30.89
			Rotifera	12,629	16,220	14,425	2,539.2	17.60
			Total	22,610	31,581	27,096	6,343.5	23.41
	1325	P1	Cladocera	7,229	7,064	7,147	116.7	1.63
			Copepoda	28,768	27,926	28,347	595.4	2.10
			Rotifera	123,617	100,820	112,219	16,119.9	14.36
			Total	159,614	135,810	147,712	16,832.0	11.40
	1403	P4	Cladocera	10,946	6,775	8,861	2,949.3	33.29
			Copepoda	45,194	22813	34,004	15,825.8	46.54
			Rotifera	112,319	32,648	72,484	56,335.9	77.72
			Total	168,459	62,236	115,348	75,111.0	65.12
	1428	P2	Cladocera	2,793	5,565	4,179	1,960.1	46.90
			Copepoda	18,788	28,491	23,640	6,861.1	29.02
			Rotifera	36,498	42,967	39,733	4,574.3	11.51
			Total	58,079	77,023	67,551	13,395.4	19.83

a. P1 = Intake pond
P2 = Diffuser pond
P4 = Discharge channel

Table C-4. Summary of Zooplankton Data Collected During Operational Monitoring Periods (1988), Sequoyah Nuclear Plant

Month	River Mile	Group	Sample 1	Sample 2	Mean	Standard Deviation	C.V.
May 88	483.4	Cladocera	16,496	23,673	20,085	5,074.9	25.27
		Copepoda	34,932	30,398	32,665	3,206.0	9.81
		Rotifera	10,498	8,250	9,374	1,589.6	16.96
		Total	61,926	62,321	62,124	279.3	0.45
	484.5	Cladocera	38,802	9,793	24,298	20,512.5	84.42
		Copepoda	4,4277	15,659	29,968	20,236.0	67.53
		Rotifera	5,7521	12,650	35,086	31,728.6	90.43
		Total	140,600	38,102	89,351	72,477.0	81.11
Aug. 88	483.4	Cladocera	7,721	6,438	7,080	907.2	12.81
		Copepoda	19,974	30,864	25,419	7,700.4	30.29
		Rotifera	96,258	87,148	91,703	6,441.7	7.02
		Total	123,953	124,450	124,202	351.4	0.28
	484.5	Cladocera	16,570	2,697	9,634	9,809.7	101.83
		Copepoda	50,280	16,830	33,555	23,652.7	70.49
		Rotifera	307,950	130,454	219,202	125,508.6	57.26
		Total	374,800	149,981	262,391	158,971.0	60.59

Table C-5. Mean Zooplankton Densities (Number/m^3) at Each Sample Station During Operational Monitoring (1988), Sequoyah Nuclear Plant, Chickamauga Reservoir

	May 1988							
			Intake Pond		Diffuser		Discharge	
	483.4	484.5	AM	PM	AM	PM	AM	PM
Cladocera								
Alona quadrangularis	0	0	0	0	0	0	0	0
Bosmina longirostris	0	0	1,027	0	21	64	257	129
Camptocercus rectirostris	0	0	0	0	64	0	0	0
Ceriodaphnia lacustris	0	0	0	0	0	0	0	0
Chydorus sp.	44	0	0	31	11	11	129	0
Daphnia ambigua	44	0	0	0	0	0	0	0
Daphnia pulex	0	0	193	0	0	0	0	0
Daphnia retrocurva	10,990	8,763	4,492	1,540	1,412	1,476	1,155	1,476
Diaphanosoma leuchtenbergianum	7,323	14,803	426	1,669	1,412	1,219	1,155	2,246
Eurycercus sp.	0	0	0	0	0	0	0	0
Ilyocryptus imm.	0	0	0	0	0	0	0	0
Ilyocryptus sordidus	0	0	0	0	0	0	0	0
Ilyocryptus spinifer	0	0	0	0	0	0	0	0
Leptodora kindtii	1,684	732	203	1,219	31	62	1,027	244
Moina imm.	0	0	0	0	0	0	0	0
Moina micrura	0	0	0	0	0	0	0	0
Moina minuta	0	0	0	0	0	0	0	0
Sida crystallina	0	0	11	0	0	0	0	0

Table C-5. (Continued)

	May 1988							
			Intake Pond		Diffuser		Discharge	
	483.4	484.5	AM	PM	AM	PM	AM	PM
Copepoda								
Calanoid imm.	1,154	4	213	642	52	52	224	160
Canthocamptus robertcokeri	0	0	0	0	0	0	0	0
Cyclopoid imm.	3,121	1,327	449	642	642	321	514	1,476
Cyclops bicuspidatus thomasi	310	0	213	642	0	0	64	0
Cyclops vernalis	3,473	238	234	1,091	193	11	321	385
Diaptomus pallidus	133	5	11	203	0	0	0	11
Diaptomus reighardi	1,112	11	642	406	75	64	64	416
Epischura fluviatilis	0	0	0	0	0	0	0	0
Ergasilus sp.	0	0	0	0	0	0	0	0
Eucyclops agilis	44	1	0	0	0	0	0	64
Eucyclops prionophorus	0	0	0	0	0	0	0	0
Eurytemora affinis	1,552	683	244	193	113	190	514	706
Harpacticoid imm.	0	85	0	0	0	0	0	0
Mesocyclops edax	2,708	2,688	1,604	359	578	201	834	1,733
Nauplii	19,059	24,926	9,625	11,486	16,042	11,615	11,872	17,711
Tropocyclops prasinus	0	1	0	0	0	0	0	0

Table C-5. (Continued)

	May 1988							
			Intake Pond		Diffuser		Discharge	
	483.4	484.5	AM	PM	AM	PM	AM	PM
Rotifera								
Asplanchna herricki	0	0	578	0	0	0	0	0
Brachionus angularis	3,951	20,505	1,797	2,695	1,219	3,722	5,198	6,674
Brachionus bennini	0	0	0	64	0	0	0	0
Brachionus bidentata	0	85	0	0	0	64	0	0
Brachionus budapestinensis	0	136	0	2,310	0	0	0	0
Brachionus calyciflorus	0	85	1,155	0	64	0	0	0
Brachionus caudatus	0	85	0	0	0	0	0	0
Brachionus havanaensis	0	0	0	0	0	0	0	0
Brachionus quadridentatus	0	0	0	0	0	0	64	0
Cephalodella sp.	45	0	0	0	0	0	0	0
Collotheca sp.	0	0	0	0	64	0	0	0
Conochiloides sp.	0	0	0	0	0	0	0	0
Conochilus hippocrepis	0	0	0	0	0	0	0	0
Conochilus unicornis	0	0	0	193	0	0	0	0
Contracted rotifera	0	0	0	0	0	0	0	0
Filinia longiseta	0	0	0	0	0	0	0	0
Hexarthra intermedia	0	0	0	0	0	0	0	0
Hexarthra mira	0	0	0	0	0	0	0	0
Kellicottia bostoniensis	0	0	0	0	0	64	0	0
Kellicottia longispina	44	85	1,219	0	129	385	321	385
Keratella cochlearis	135	426	257	514	257	0	64	2,182
Keratella crassa	623	1,038	770	770	64	129	193	1,091
Keratella earlinae	4,309	9,767	16,106	7,315	1,861	2,118	2,246	5,326
Lecane sp.	0	0	0	0	0	0	0	0
Monostyla sp.	0	0	0	0	0	0	0	0
Platyias patulus	0	0	0	0	0	0	0	0
Ploesoma hudsoni	0	0	578	0	0	0	0	0

Table C-5. (Continued)

	May 1988							
			Intake Pond		Diffuser		Discharge	
	483.4	484.5	AM	PM	AM	PM	AM	PM
Rotifera (Continued)								
Ploesoma truncata	0	0	257	0	193	0	0	0
Polyarthra sp.	0	136	17,646	1091	64	129	449	1,219
Synchaeta sp.	268	2,586	1,540	449	578	0	0	129
Synchaeta stylata	0	0	514	0	0	0	129	0
Trichocerca sp.	0	153	706	0	0	64	0	0
Trichotria sp.	0	0	385	0	0	0	0	0

Table C-5. (Continued)

	August 1988							
			Intake Pond		Diffuser		Discharge	
	483.4	484.5	AM	PM	AM	PM	AM	PM
Cladocera								
Alona quadrangularis	0	0	0	0	52	0	0	0
Bosmina longirostris	5,529	6,729	8,021	5,853	1283	2,926	2,516	6,468
Camptocercus rectirostris	1	1	0	0	0	0	0	0
Ceriodaphnia lacustris	135	201	193	308	11	77	116	0
Chydorus sp.	1	7	0	0	0	0	11	11
Daphnia ambigua	0	0	0	0	0	0	0	0
Daphnia pulex	30	0	0	0	0	0	0	0
Daphnia retrocurva	0	1	11	31	0	77	64	113
Diaphanosoma leuchtenbergianum	1,382	2,087	1,348	822	359	1,078	732	2,156
Eurycercus sp.	1	0	0	0	0	0	0	0
Ilyocryptus imm.	0	1	0	0	11	11	0	0
Ilyocryptus sordidus	0	0	0	103	0	0	0	0
Ilyocryptus spinifer	1	286	0	0	0	0	52	0
Leptodora kindtii	0	0	0	0	0	0	0	0
Moina imm.	0	0	11	0	52	0	0	0
Moina micrura	2	37	0	31	0	11	11	113
Moina minuta	0	0	129	0	0	0	0	0
Sida crystallina	1	286	11	0	0	0	0	0

Table C-5. (Continued)

	August 1988							
			Intake Pond		Diffuser		Discharge	
	483.4	484.5	AM	PM	AM	PM	AM	PM
Copepoda								
Calanoid imm.	31	2	0	103	11	0	0	0
Canthocamptus robertcokeri	1	0	0	0	0	0	0	0
Cyclopoid imm.	1,782	2,944	770	1,643	565	847	898	1,951
Cyclops bicuspidatus thomasi	0	10	11	0	0	0	0	0
Cyclops vernalis	1	286	21	0	52	0	11	11
Diaptomus pallidus	1	10	0	0	0	0	0	0
Diaptomus reighardi	1	21	0	0	0	0	0	0
Epischura fluviatilis	0	1	1 0	0	0	0	0	0
Ergasilus sp.	1	27	0	11	0	0	0	0
Eucyclops agilis	1	0	0	0	0	0	0	0
Eucyclops prionophorus	1	0	0	0	0	0	0	0
Eurytemora affinis	0	0	0	0	0	0	0	0
Harpacticoid imm.	1	0	0	0	0	0	0	0
Mesocyclops edax	148	2,563	193	308	62	154	31	113
Nauplii	23,423	27,618	22,331	26,078	10,216	22,408	17,210	31,725
Tropocyclops prasinus	31	76	126	205	0	231	0	205

Table C-5. (Continued)

	August 1988							
			Intake Pond		Diffuser		Discharge	
	483.4	484.5	AM	PM	AM	PM	AM	PM
Rotifera								
Asplanchna herricki	1,845	5,647	5,390	5,647	257	1,771	976	2,053
Brachionus angularis	4,189	21,782	8,086	8,522	1,335	1,155	5,904	7,803
Brachionus bennini	0	140	0	0	0	0	0	0
Brachionus bidentata	0	140	0	0	0	0	0	0
Brachionus budapestinensis	265	2,711	963	0	462	539	167	719
Brachionus calyciflorus	0	0	64	0	154	231	0	0
Brachionus caudatus	3,349	14,500	9,112	9,857	4,107	9,394	5,814	13,758
Brachionus havanaensis	0	0	64	103	0	0	0	0
Brachionus quadridentatus	30	0	0	0	0	0	0	0
Cephalodella sp.	0	0	0	0	0	0	0	0
Collotheca sp.	0	236	2,118	1,335	205	462	321	1,129
Conochiloides sp.	7,719	25,777	10,074	11,499	154	2,002	2,221	6,366
Conochilus hippocrepis	0	0	0	2,259	0	0	0	206
Conochilus unicornis	71,557	128,525	30,673	47,023	1,027	770	3,529	4,415
Contracted rotifera	0	0	257	0	0	0	0	0
Filinia longiseta	194	285	0	206	52	770	0	103
Hexarthra intermedia	0	96	193	0	0	154	116	103
Hexarthra mira	0	0	514	1,130	52	0	0	0
Kellicottia bostoniensis	0	0	0	0	0	0	0	103
Kellicottia longispina	0	0	0	0	0	0	0	103
Keratella cochlearis	0	0	129	206	0	385	0	206
Keratella crassa	0	96	642	308	52	616	373	411
Keratella earlinae	0	96	385	0	411	154	116	205
Lecane sp.	93	0	0	0	0	0	0	0
Monostyla sp.	0	236	0	0	0	77	0	0
Platyias patulus	1,146	2,894	1,476	924	462	539	1,476	1,540

Table C-6. Results of Immediate Examination of In-Plant Zooplankton to Estimate Viability Using Percentage Immobile

Date	Group	Sample	Percentage Immobile[a] Intake	Discharge Canal	Diffuser Outlet
May 25-Morning	Rotifera	1	9	63	34
		2	16	83	80
		$\bar{x}$	13	73	57
	Cladocera	1	7	30	19
		2	0	24	77
		$\bar{x}$	3	27	48
	Copepoda	1	22	4	13
		2	8	11	13
		$\bar{x}$	15	8	13
	Total	1	10	27	18
		2	12	34	29
		$\bar{x}$	11	31	24
May 25-Afternoon	Rotifera	1	5	26	46
		2	25	96	39
		$\bar{x}$	15	61	43
	Cladocera	1	3	24	28
		2	16	22	9
		$\bar{x}$	10	23	19
	Copepoda	1	5	11	38
		2	68	39	26
		$\bar{x}$	37	25	32
	Total	1	5	17	39
		2	40	64	28
		$\bar{x}$	23	41	34
	Rotifera	Daily $\bar{x}$	14	67	50
	Cladocera	Daily $\bar{x}$	7	25	33
	Copepoda	Daily $\bar{x}$	26	16	23
	Total	Daily $\bar{x}$	17	36	29

Table C-6 (Continued)

Date	Group	Sample	Percentage Immobile[a] Intake	Discharge Canal	Diffuser Outlet
August 31-Morning	Rotifera	1	9	52	88
		2	33	99	78
		$\bar{x}$	21	76	83
	Cladocera	1	11	100	100
		2	32	100	100
		$\bar{x}$	22	100	100
	Copepoda	1	7	100	100
		2	22	97	100
		$\bar{x}$	15	99	100
	Total	1	9	73	93
		2	29	99	89
		$\bar{x}$	19	86	91
August 25-Afternoon	Rotifera	1	9	94	100
		2	13	85	91
		$\bar{x}$	11	90	96
	Cladocera	1	23	98	100
		2	22	100	100
		$\bar{x}$	23	99	100
	Copepoda	1	11	98	98
		2	22	99	100
		$\bar{x}$	17	99	99
	Total	1	10	96	99
		2	15	92	95
		$\bar{x}$	13	94	97
	Rotifera	Daily $\bar{x}$	16	83	89
	Cladocera	Daily $\bar{x}$	22	100	100
	Copepoda	Daily $\bar{x}$	16	99	100
	Total	Daily $\bar{x}$	16	90	94

a. Presumed dead.

8994

TENNESSEE VALLEY AUTHORITY

River Basin Operations
Water Resources

Enclosure 14

PLANKTON STUDIES AT SEQUOYAH NUCLEAR PLANT IN 1989

TVA/WR/AB--90/2

Chattanooga, Tennessee

January 1990

spatial variation in the plankton upstream of SQN. The proximity of the new location to the first downstream location has also proven useful because travel time between these two locations is too short for major community changes to occur.

Based on past studies (described in table 4), the expected trend for both phytoplankton and zooplankton given the relatively high flows which existed during May and August 1989 would be increased densities from upstream to downstream. There have been seven previous study periods with flows greater than 30,000 cfs (four with two-unit operation) and either no differences among locations or increased densities at downstream locations were observed.

Studies to date have documented that when differences have occurred in phytoplankton and zooplankton communities among locations these differences typically have been either increases or decreases in organism densities, not community compositional changes (table 4). As expected from the above discussion, increases have most commonly been observed under relatively high reservoir flows (e.g., 30,000 cfs). Results to date show rather convincingly that when reservoir flows are quite low (i.e., <10,000 cfs) decreases in plankton densities would be expected, particularly at the diffuser discharge location (TRM 483.4). Results also indicate different mechanisms are responsible for reductions in phytoplankton and zooplankton densities.

The mechanism which apparently is responsible for reduced phytoplankton cell densities and chlorophyll concentrations is mixing of the water column at the diffuser location. Inplant studies conducted in 1987 (TVA 1988a) and in 1988 (TVA 1989) indicate there

Enclosure 15

Aquatic Plants in TVA Reservoirs and Potential Impacts at TVA Power Generation Facilities

Background

Submersed aquatic plants (those that grow beneath the surface of the water) have colonized the TVA reservoir system since impoundment in the late 1930s and early 1940s. Until the introduction of Eurasian watermilfoil in the late 1950s and its subsequent and rapid spread in the 1960s into most of the main stem reservoirs along the Tennessee River, submersed aquatic plant populations were very localized and problems associated with clogging and impingement from aquatic plants at TVA generating facilities was minimal.

Currently, aquatic plants colonize an estimated 28,000 acres in TVA main stem reservoirs and about 150 acres in tributary reservoirs such as Melton Hill and Tellico. The dominant submersed species are exotic introductions such as hydrilla, spinyleaf naiad, Eurasian watermilfoil with substantially lesser amounts of native species such as southern naiad, coontail, and pondweeds. Aquatic plant abundance in TVA reservoirs is highly cyclic and since the 1980s coverage has ranged from about 15,000 acres to 46,000 acres. Aquatic plant growth and coverage generally increases during years of low flows and decreases during years with high flows. The highest coverage in the TVA reservoir system occurred during the late 1980s at the end of a several year record drought period in the Tennessee Valley region.

While aquatic plants are cyclic in coverage and abundance in response to environmental conditions such as flow, turbidity, etc., and other factors, they are well established and widely distributed in the TVA system and cannot be eradicated. Any large scale attempts at eradication would be strongly opposed by environmental groups (e.g., B.A.S.S, Ducks Unlimited) and state resource agencies that manage fish and wildlife.

Reservoirs with Major Aquatic Plant Populations

Most of the TVA main stem reservoirs and tributary reservoirs such as Melton Hill and Tellico historically have had populations of submersed aquatic plants. Currently, TVA reservoirs with large populations of aquatic plants include: Guntersville (19,000 acres), Kentucky (3,500 acres), Wheeler (2,500 acres), Nickajack (1,400 acres), Chickamauga (1,400 acres), and Pickwick (550 acres). Because of the large populations of aquatic plants on these reservoirs, potential impacts from aquatic plants to power generating facilities are highest on these reservoirs or to facilities that are “just” downstream of these reservoirs.

Growth Cycle and Fragment Transport

Aquatic plants begin growth from seed or from underground roots and rhizomes during the late spring months and reach peak biomass during the late summer and early

fall months. Beginning in late summer and extending into fall months, the stems and leaves begin to naturally senesce and to "breakup" which can result in large numbers of fragments and floating mats that can be transported downstream by flow and also moved laterally within reservoirs by prevailing winds. Thus, the source of plant fragments that impinge on the screens at intakes at power generating facilities usually are from colonies growing several miles from the generation facility.

Aquatic Plant Management Activities in TVA Reservoirs

TVA uses herbicides to manage aquatic plants in near-shore areas of developed shorelines on Guntersville and Nickajack reservoirs. Management activities in these two reservoirs and Chickamauga Reservoirs are guided by management plans developed by local stakeholder groups that balance the negative impacts of aquatic plants on reservoir use with the benefits that aquatic plants provide for fish and wildlife. In both Guntersville and Nickajack, the annual percentage of aquatic plants managed with herbicides is generally between 5 and 8 percent of the total amount of aquatic vegetation. Mechanical harvesters are also used to open and maintain boating access lanes on Guntersville, Nickajack, and Chickamauga reservoirs. The amount of aquatic plants managed by this method is less than 1 percent of the total vegetation coverage. A few private homeowners on some TVA reservoirs also hire private applicators to treat nuisance aquatic plants in the immediate vicinity of docks and boathouses. Since TVA aquatic plant management activities target plants in areas of developed shoreline and represent only a small percentage of total vegetation, TVA management activities have minimal impact to aquatic plant populations that impact TVA power generating facilities.

Facilities at Risk

Over the years, aquatic plants from reservoir populations have frequently impinged on intake screens at Brown's Ferry Nuclear Plant and Sequoyah Nuclear Plant. Johnsonville Steam Plant also experienced some clogging of intake screens in 2006 and there have been sporadic reports of clogging at other facilities during some years (i.e., hydro-generation facilities at Guntersville and Wheeler Dams). A brief description that includes species, location of colonies, and conditions associated with clogging problems at these facilities is summarized in the following paragraphs.

Brown's Ferry Nuclear Plant (BFNP) – A large percentage (estimated 1,500 acres) of the submersed aquatic plants on Wheeler Reservoir are just upstream of BFNP from the power line crossing at Round Island Creek at Tennessee River mile (TRM) 297 upstream to the railroad bridge crossing (TRM 304.5) near Decatur. Submersed aquatic plants are abundant in this shallow over bank area know as the "Decatur flats" that is heavily fished by bass anglers. Common species include Eurasian watermilfoil, spinyleaf naiad, and coontail. The beginning of the breakup and fragmentation of these species can be expected during the late summer months (e.g., August, September) and extend into the late fall (i.e, November). Historically, coontail has been the most problematic species based on samples collected on the intake screens at BFNP. Coontail is a submersed

species that is not rooted and has neutral buoyancy that allows it to remain suspended in the water column. Because coontail is not rooted, flow and wind easily move the species from the over bank areas to other reservoir areas such as BFNP. The potential occurrence of impingement is greatly increased by storm events that generate high winds and increased flow.

Sequoyah Nuclear Plant (SNP) – The dominant aquatic plant on Chickamauga Reservoir is spinyleaf naiad which is an annual species which each year re-grows from seed. Spinyleaf naiad is a "shallow water species" that grows in a few feet of water in shallow areas of embayments, sloughs, and over bank areas behind islands. After reaching peak biomass in mid summer, spinyleaf naiad undergoes a natural break-up during August and September and the stem and leaves float to the surface and form mats. After the break-up, the floating mats are moved by flow and wind to the reservoir channel and are transported downstream. The origins of most of the floating mats that impact SNP are several miles upstream of SNP in the area from TRM 495 to TRM 515 that includes the Hiwassee Island Wildlife Refuge.

Johnsonville Steam Plant (JSP) – During the past few years aquatic plants such as southern naiad, spinyleaf naiad, coontail, and pondweeds have increased substantially on Kentucky Reservoir including the area in the vicinity of New Johnsonville that now has one of largest concentrations of aquatic plants in the reservoir. In addition to the other species listed above, hydrilla is now well established on Kentucky Reservoir from just south of New Johnsonville (TRM 103) and north to near White Oak Creek embayment (TRM 83). The most likely time for fragments and mats of aquatic plants at Johnsonville would be during August and September and possibly into the early fall months. High winds or high flows during this time period could result in large quantities of fragments or mats that could impinge on the Johnsonville intake.

Hydro-generation Units - The trash racks for the turbines at TVA dams potentially could be clogged by aquatic plants fragments. Unusually high flows in late June and July of 1989 resulted in trash rack clogging at Guntersville and Wheeler Dams when water had to be passed over the dams until the racks could be cleaned. While an event of this scale is unusual for late June and early July, it illustrates that unusually high flows during mid to late summer can have significant impacts to TVA hydrogenation. A major storm system and unusually high flows from a major hurricane during the late summer or early fall could result major, short-term impacts to hydrogenation at dams on reservoirs with high coverage of aquatic plants. The flows would uproot aquatic plants during a time of near peak biomass and move plants from hundreds or perhaps thousand of acres downstream to dams.

Other TVA Facilities – Other TVA power generation facilities (e.g., Widow's Creek) might occasionally be impacted by aquatic plants during unusual flow or weather events (e.g., storms with high winds). Facilities on or just downstream of reservoirs with large populations of aquatic plants are also at risk if water had to be passed over the dams.

Summary Observations

- Aquatic plants are well established and widely distributed in several of the TVA main stem reservoirs (i.e., Guntersville, Kentucky, Wheeler, Nickajack, Chickamauga, and Pickwick) and cannot be eradicated.

- Coverage and abundance of aquatic plants are cyclic and expected to fluctuate dramatically from year to year and are dependent of flows, turbidity, and other environmental factors.

- Aquatic plants undergo a natural and predictable cycle of decline and breakup that can generate fragments and floating mats.

- Current TVA activities (herbicide applications, opening and maintaining boating access lanes) that manage aquatic plants in areas of developed shoreline to enhance reservoir use have little impact on coverage and abundance of aquatic plant populations.

- Fragments and floating mats of aquatic vegetation may originate at locations several miles from intakes.

- Fragmentation and breakup of aquatic plants in TVA reservoirs typically occurs in August and September and can extend into the fall months.

- High winds and high flows can also result in fragmentation and formation of mats and increase the natural rate of breakup and abundance of fragments and floating mats.

- Sequoyah Nuclear Plant and Brown's Ferry Nuclear Plant historically have experienced impingement problems which are expected to continue for the foreseeable future.

- Other power generating facilities (e.g., New Johnsonville) on reservoirs with large aquatic populations are beginning to experience similar problems.

- High flows and winds caused by a hurricane or other similar event could "dislodge" hundreds or thousands of acres of aquatic plants and impact hydrogenation at some TVA dams.

DHW/TVA-6/07