

Cherokee Reservoir

Annual Report 2007

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## Cherokee Reservoir - 2007

### Largemouth Bass

Population Parameter	Annual Rating	Measure	Gear	Value
Recruitment	Good	Substock CPUE	Electrofishing	8.0/hr
Structure	Excellent	PSD	Electrofishing	79
Density	Good	CPUE $\geq$ Stock Size (8-inches)	Electrofishing	46.6/hr
	Good	CPUE $\geq$ Minimum Size Limit (15-inches)	Electrofishing	25.1/hr
Number Caught*	Excellent	Angler Catch	Creel Survey	169,254
Quality*	Good	Average Weight	Creel Survey	2.4 lbs
Value of Fishery*	Excellent	Trip Expenditures	Creel Survey	\$509,540

(\* 2006 survey)

Fishery Forecast: The quality of the fishery has improved since the 15-inch size restriction went into effect in 2001. Catch rates are good and 46 percent of the population is available for harvest.

Management Recommendations: No changes in creel limits are necessary.

### Black Crappie

Population Parameter	Annual Rating	Measure	Gear	Value
Recruitment	Poor	Substock CPUE (per net night)	Trap Net	0.5/net
Structure	Good	PSD	Trap Net	83
Density	Fair	CPUE $\geq$ Stock Size (5-inches)	Trap Net	6.0/net
	Fair	CPUE $\geq$ Minimum Size Limit (10-inches)	Trap Net	2.5/net
Angling Pressure**	Fair	Fishing Effort	Creel Survey	66,884 hr
Fishing Success**	Good	Angler Catch Rate	Creel Survey	1.58/hr
Number Caught**	Good	Angler Catch	Creel Survey	75,453
Quality*	Good	Average Weight	Creel Survey	0.8 lbs
Value of Fishery**	Fair	Trip Expenditures	Creel Survey	\$16,870

(\*2006 survey, \*\*all crappie combined)

Fishery Forecast: Several years of excellent recruitment is needed to bring the fishery back to where it was in the mid-1990s. The density of harvestable-size crappie increased again 2007.

Management Recommendations: No changes in creel limits are proposed.

### Hybrid Striped Bass

Population Parameter	Annual Rating	Measure	Gear	Value
Density*	Good	CPUE $\geq$ Minimum size Limit (15-inches)	Gill Net	14.0/net
Angling Pressure*	Good	Fishing Effort	Creel Survey	40,713 hr
Fishing Success*	Good	Angler Catch Rate	Creel Survey	0.48/hr
Number Caught*	Good	Angler Catch	Creel Survey	41,076
Quality*	Fair	Average Weight	Creel Survey	5.2 lbs
Value of Fishery*	Good	Trip Expenditures	Creel Survey	\$107,330

(\* 2006 survey)

Fishery Forecast: The survival rate of hybrids is so outstanding that stocking rates have recently been reduced to create a more balanced striped bass/hybrid fishery. Only 25% of the Moronids stocked are hybrids. Anglers from Tennessee and neighboring states are fishing heavily for hybrids. The 2006 creel indicates angling pressure and success rate has increased since 2004.

Management Recommendations: No changes in creel limits are proposed.

### Striped Bass

Population Parameter	Annual Rating	Measure	Gear	Value
Density*	Poor	CPUE $\geq$ Minimum size Limit (15-inches)	Gill Net	1.2/net
Angling Pressure*	Fair	Fishing Effort	Creel Survey	44,587 hr
Fishing Success*	Fair	Angler Catch Rate	Creel Survey	0.11/hr
Number Caught*	Poor	Angler Catch	Creel Survey	5,875
Quality*	Good	Average Weight	Creel Survey	12.5 lbs
Value of Fishery*	Fair	Trip Expenditures	Creel Survey	\$165,590

(\* 2006 survey)

Fishery Forecast: Although few striped bass were collected by gill netting, one should understand netting catch rates are not always indicative of the status of the fishery. The 2006 creel survey indicates the quality of fish caught has improved, but densities have declined since the last creel in 2004.

Management Recommendations: No changes in creel limits are proposed.

## Walleye

Population Parameter	Annual Rating	Measure	Gear	Value
Density*	Good	CPUE $\geq$ Stock Size (10-inches)	Gill Net	3.3/net
	Good	CPUE $\geq$ Minimum size Limit (15-inches)	Gill Net	3.3/net
Angling Pressure*	Fair	Fishing Effort	Creel Survey	6,805 hr
Fishing Success*	Good	Angler Catch Rate	Creel Survey	0.8/hr
Number Caught*	Good	Angler Catch	Creel Survey	7,504
Quality*	Excellent	Average Weight	Creel Survey	2.5 lbs
Value of Fishery*	Fair	Trip Expenditures	Creel Survey	\$7,670

(\* 2006 survey)

**Fishery Forecast:** We began stocking walleye again beginning in 2003 after several years of trial stockings of sauger and saugeye. Walleye are abundant and growing well given the abundant forage base. The 2006 creel indicates fishing pressure is minimal for walleye, but the quality of fish caught and catch rates of those anglers targeting the species is very good.

**Management Recommendations:** Increase the minimum size limit to 18-inches.

## Stocking and Stocking Evaluations

Species	Number Stocked	Mark	Evaluation	Value
Striped Bass	151,818	N/A	N/A	N/A
Hybrid Striped Bass	55,006	N/A	N/A	N/A
Walleye	146,959	N/A	N/A	N/A

## Habitat Enhancement and Monitoring

Fish Attractors	Expanded	none
	Renovated	5 sites, 425 units, 8.5 acres
Water Quality	Temperature	July-September (normal)
	D.O.	July-September (normal)

## Tables

Table 1. Cherokee Reservoir physical and chemical characteristics.

Surface Area	30,000 acres
Drainage Area	3,428 sq. mi.
Full Pool Elevation	1,073 feet-msl
Mean Annual Fluctuation	53 feet
Shoreline Distance	395 miles
Total Developed Shoreline	25%
Maximum Depth	150 feet
Outlet Depth (lower, upper)	116 ft, 135 ft
Thermocline Depth	30 ft (Aug 2007)
Trophic Status (Forebay)	Mesotrophic
Mean Chlorophyll (Forebay)	6.8 mg/L
Trophic Index Value	49.3
Hydraulic Retention Time	165 days
Reservoir Age	59 years

Table 2. Cherokee Reservoir fish stockings 1998 - 2007.

<b>Species</b>	<b>Date</b>	<b>Rate (per acre)</b>	<b>Total Stocked</b>
Striped Bass	1998	4.9	147,574
	1999	3.6	108,944
	2001	5.0	150,935
	2002	3.2	97,854
	2003	3.4	103,423
	2004	2.7	81,285
	2005	4.4	133,646
	2006	5.6	168,434
	2007	5.0	151,818
Hybrid Striped Bass	2000	5.0	150,000
	2001	1.6	48,613
	2002	1.9	58,934
	2003	1.7	51,708
	2004	3.9	117,952
	2005	1.1	31,950
	2006	1.9	56,882
	2007	1.8	55,006
Walleye	1999	3.1	93,323
	2003	4.9	149,810
	2004	5.2	156,792
	2005	2.0	60,089
	2006	2.5	75,629
	2007	4.9	146,959
Sauger	1998	3.9	118,550
	2000	3.3	100,900
	2001	2.0	59,502
	2002	3.1	93,996
Paddlefish	2006	0.0	450
Blue Catfish	1998	0.8	23,175
	2003	1.1	33,121
White Crappie	2003	1.3	38,740
Black Crappie	2006	1.9	56,071
Blacknose Black Crappie	1998	13.5	408,502
	1999	0.9	26,383
	2007	2.4	72,775

Table 3a. Relative stock density, mean relative weight, and catch per unit effort by RSD category for target species collected in Cherokee Reservoir during 1998-2007.

Species	Year	Gear	Samples	Substock			RSD-stock			RSD-quality			RSD-preferred			RSD-memorable			RSD-trophy			Total No. CPE	PSD Pct.						
				No.	CPE	Pct.	No.	CPE	Pct.	Wr	No.	CPE	Pct.	Wr	No.	CPE	Pct.	Wr	No.	CPE	Pct.			Wr					
Largemouth Bass	1998	Electro	15	9	2.4	5.3	39	10.4	23.1	85.3	60	16.0	35.5	89.8	56	14.9	33.1	91.7	5	1.3	3.0	90.1	0	0.0	0.0	0.0	169	45.1	76
	1999	Electro	15	29	7.7	14.5	51	13.6	25.5	87.9	48	12.8	24.0	90.9	69	18.4	34.5	95.8	3	0.8	1.5	102.8	0	0.0	0.0	0.0	200	53.2	70
	2000	Electro	15	24	6.4	15.4	42	11.2	26.9	85.9	40	10.7	25.6	91.5	47	12.5	30.1	96.0	3	0.8	1.9	100.0	0	0.0	0.0	0.0	156	41.6	68
	2001	Electro	15	105	28.0	31.0	65	17.3	19.2	84.6	85	22.7	25.1	93.8	82	21.9	24.2	101.9	2	0.5	0.6	104.2	0	0.0	0.0	0.0	339	90.4	72
	2002	Electro	15	30	8.0	11.3	94	25.1	35.3	82.5	71	18.9	26.7	86.9	69	18.4	25.9	99.4	2	0.5	0.8	97.9	0	0.0	0.0	0.0	266	70.9	60
	2003	Electro	15	26	6.9	13.5	39	10.4	20.3	85.9	50	13.3	26.0	95.6	75	20.0	39.1	99.6	2	0.5	1.0	107.0	0	0.0	0.0	0.0	192	51.2	77
	2004	Electro	14	16	4.6	6.4	87	24.9	34.9	88.3	44	12.6	17.7	90.1	100	28.6	40.2	94.6	2	0.6	0.8	86.7	0	0.0	0.0	0.0	249	71.1	63
	2005	Electro	15	21	5.6	7.5	40	10.7	14.3	87.3	83	22.1	29.7	93.1	133	35.5	47.7	96.7	2	0.5	0.1	89.6	0	0.0	0.0	0.0	279	74.4	84
	2006	Electro	15	17	4.5	7.4	60	16.0	26.1	89.5	53	14.1	23.0	89.7	97	25.9	42.2	93.2	3	0.8	1.3	88.2	0	0.0	0.0	0.0	230	61.3	72
2007	Electro	15	30	8.0	14.9	36	9.6	17.9	88.9	41	10.9	20.4	93.6	89	23.7	44.3	93.9	5	1.3	2.5	94.3	0	0.0	0.0	0.0	201	53.6	79	
Smallmouth Bass	1998	Electro	15	6	1.6	46.2	4	1.1	30.8	75.9	0	0.0	0.0	0.0	2	0.5	15.4	90.7	1	0.3	7.7	84.9	0	0.0	0.0	0.0	13	3.5	
	1999	Electro	15	2	0.5	11.8	5	1.3	29.4	77.2	3	0.8	17.6	90.7	3	0.8	17.6	98.7	4	1.1	23.5	100.6	0	0.0	0.0	0.0	17	4.5	67
	2000	Electro	15	2	0.5	22.2	1	0.3	11.1	81.0	3	0.8	33.3	82.8	0	0.0	0.0	0.0	3	0.8	33.3	97.9	0	0.0	0.0	0.0	9	2.4	
	2001	Electro	15	0	0.0	0.0	2	0.5	40.0	80.4	1	0.3	20.0	83.4	0	0.0	0.0	0.0	1	0.3	20.0	92.7	1	0.3	20.0	0.0	5	1.3	60
	2002	Electro	15	0	0.0	0.0	7	1.9	58.3	78.7	3	0.8	25.0	74.2	1	0.3	8.3	77.9	1	0.3	8.3	0.0	0	0.0	0.0	0.0	12	3.2	42
	2003	Electro	15	0	0.0	0.0	4	1.1	100.0	85.9	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	4	1.1	
	2004	Electro	14	0	0.0	0.0	7	2.0	35.0	82.7	10	2.9	50.0	84.2	1	0.3	5.0	111.1	2	0.6	10.0	84.1	0	0.0	0.0	0.0	20	5.7	65
	2005	Electro	15	0	0.0	0.0	2	0.5	11.8	88.3	4	1.1	23.5	87.4	3	0.8	17.7	91.6	6	1.6	35.3	87.9	2	0.5	11.8	0.0	17	4.5	88
	2006	Electro	15	0	0.0	0.0	4	1.1	40.0	92.1	1	0.3	10.0	77.4	2	0.5	20.0	95.2	3	0.8	30.0	90.4	0	0.0	0.0	0.0	10	2.7	60
2007	Electro	15	2	0.5	22.2	2	0.5	22.2	81.0	0	0.0	0.0	0.0	1	0.3	11.1	87.1	3	0.8	33.3	84.8	1	0.3	11.1	0.0	9	2.4	71	
Spotted Bass	1998	Electro	15	3	0.8	20.0	8	2.1	53.3	86.8	4	1.1	26.7	96.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	15	4.0	33
	1999	Electro	15	0	0.0	0.0	2	0.5	25.0	87.4	5	1.3	62.5	96.7	1	0.3	12.5	106.2	0	0.0	0.0	0.0	0	0.0	0.0	0.0	8	2.1	
	2000	Electro	15	2	0.5	25.0	2	0.5	25.0	97.6	2	0.5	25.0	100.5	2	0.5	25.0	101.4	0	0.0	0.0	0.0	0	0.0	0.0	0.0	8	2.1	
	2001	Electro	15	2	0.5	13.3	5	1.3	33.3	101.1	6	1.6	40.0	108.7	2	0.5	13.3	100.9	0	0.0	0.0	0.0	0	0.0	0.0	0.0	15	4.0	62
	2002	Electro	15	2	0.5	14.3	9	2.4	64.3	88.1	0	0.0	0.0	0.0	3	0.8	21.4	99.2	0	0.0	0.0	0.0	0	0.0	0.0	0.0	14	3.7	25
	2003	Electro	15	2	0.5	9.5	11	2.9	52.4	91.5	5	1.3	23.8	99.0	3	0.8	14.3	107.5	0	0.0	0.0	0.0	0	0.0	0.0	0.0	21	5.6	42
	2004	Electro	14	0	0.0	0.0	11	3.1	84.6	97.1	1	0.3	7.7	94.8	1	0.3	7.7	89.4	0	0.0	0.0	0.0	0	0.0	0.0	0.0	13	3.7	15
	2005	Electro	15	0	0.0	0.0	5	1.3	16.7	94.1	20	5.3	66.7	100.4	5	1.3	16.7	102.9	0	0.0	0.0	0.0	0	0.0	0.0	0.0	30	8.0	83
	2006	Electro	15	0	0.0	0.0	7	1.9	53.8	93.5	5	1.3	38.5	97.5	1	0.3	7.7	100.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	13	3.5	46
2007	Electro	15	0	0.0	0.0	19	5.1	70.4	100.7	7	1.9	25.9	106.7	1	0.3	3.7	110.2	0	0.0	0.0	0.0	0	0.0	0.0	0.0	27	7.2	30	
White Crappie	1998	Trap	106	41	0.4	75.9	0	0.0	0.0	0.0	6	0.1	11.1	102.9	7	0.1	13.0	98.9	0	0.0	0.0	0.0	0	0.0	0.0	0.0	54	0.5	100
	1999	Trap	106	2	0.0	40.0	1	0.0	20.0	92.0	2	0.0	40.0	108.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	5	0.1	
	2000	Trap	101	1	0.0	25.0	0	0.0	0.0	0.0	1	0.0	25.0	100.1	2	0.0	50.0	102.5	0	0.0	0.0	0.0	0	0.0	0.0	0.0	4	0.0	
	2001	Trap	106	54	0.5	98.2	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	1	0.0	1.8	111.0	0	0.0	0.0	0.0	55	0.5	100
	2002	Trap	106	7	0.1	13.2	9	0.1	17.0	82.9	29	0.3	54.7	96.2	7	0.1	13.2	98.3	1	0.0	1.9	0.0	0	0.0	0.0	0.0	53	0.5	80
	2003	Trap	106	114	1.1	98.3	1	0.0	0.9	77.2	0	0.0	0.0	0.0	1	0.0	0.9	82.2	0	0.0	0.0	0.0	0	0.0	0.0	0.0	116	1.1	50
	2004	Trap	104	17	0.2	94.4	0	0.0	0.0	0.0	0	0.0	0.0	0.0	1	0.0	5.6	119.8	0	0.0	0.0	0.0	0	0.0	0.0	0.0	18	0.2	100
	2005	Trap	104	3	0.0	60.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	1	0.0	20.0	104.6	1	0.0	20.0	108.8	0	0.0	0.0	0.0	5	0.0	100
	2006	Trap	106	15	0.1	75.0	2	0.0	10.0	112.4	2	0.0	10.0	98.8	1	0.0	5.0	100.3	0	0.0	0.0	0.0	0	0.0	0.0	0.0	20	0.2	60
Black Crappie	1998	Electro	15	0	0.0	0.0	3	0.8	27.3	100.7	5	1.3	45.5	92.5	1	0.3	9.1	91.8	2	0.5	18.2	93.9	0	0.0	0.0	0.0	11	2.9	73
	1999	Electro	15	0	0.0	0.0	0	0.0	0.0	0.0	6	1.6	28.6	101.0	9	2.4	42.8	107.0	6	1.6	28.6	103.4	0	0.0	0.0	0.0	21	5.6	100
	2000	Electro	15	0	0.0	0.0	0	0.0	0.0	0.0	2	0.5	28.6	108.2	2	0.5	28.6	86.6	3	0.8	42.9	87.4	0	0.0	0.0	0.0	7	1.9	
	2001	Electro	15	0	0.0	0.0	3	0.8	5.0	96.7	19	5.1	31.7	98.5	22	5.9	36.7	101.4	15	4.0	25.0	97.5	0	0.0	0.0	0.0	60	16.0	95
	2002	Electro	15	0	0.0	0.0	0	0.0	0.0	0.0	2	0.5	11.8	96.9	10	2.7	58.8	99.3	4	1.1	23.5	103.0	1	0.3	5.9	0.0	17	4.5	100
	2003	Electro	15	0	0.0	0.0	0	0.0	0.0	0.0	1	0.3	9.1	107.6	2	0.5	18.2	100.9	8	2.1	72.7	97.2	0	0.0	0.0	0.0	11	2.9	100
	2004	Electro	14	0	0.0	0.0	0	0.0	0.0	0.0	7	2.0	12.3	100															

Table 3b. Relative stock density, mean relative weight, and catch per unit effort by RSD category for target species collected in Cherokee Reservoir during 1998-2007.

Species	Year	Gear	Samples	Substock			RSD-stock				RSD-quality				RSD-preferred				RSD-memorable				RSD-trophy				Total		PSD				
				No. CPE	Pct.		No. CPE	Pct.	Wr	No. CPE	Pct.	Wr	No. CPE	Pct.	Wr	No. CPE	Pct.	Wr	No. CPE	Pct.	Wr	No. CPE	Pct.	Wr	No. CPE	Pct.	No. CPE	Pct.					
Striped Bass	1998	Gill	6	0	0.0	0.0	0	0.0	0.0	0.0	24	4.0	96.0	96.5	1	0.2	4.0	89.5	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	25	4.2	100
Bass	1999	Gill	15	0	0.0	0.0	9	0.6	50.0	98.1	6	0.4	33.3	100.9	3	0.2	16.7	98.2	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	18	1.2	50
	2000	Gill	14	8	0.6	25.0	13	0.9	40.6	103.6	10	0.7	31.2	100.6	1	0.1	3.1	83.9	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	32	2.3	50
	2001	Gill	5	0	0.0	0.0	15	3.0	65.2	97.5	8	1.6	34.7	103.7	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	23	4.6	35
	2002	Gill	6	1	0.2	100.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	1	0.2	
	2003	Gill	10	1	0.1	100.0	1	0.1	6.3	104.3	7	0.7	43.8	102.1	7	0.7	43.8	103.5	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	16	1.6	93
	2004	Gill	10	0	0.0	0.0	8	0.8	88.9	102.4	1	0.1	11.1	103.3	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	9	0.9	
	2005	SB Gill	9	0	0.0	0.0	5	0.6	20.8	103.2	16	1.8	66.7	102.1	3	0.3	12.5	93.6	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	24	2.7	79
	2006	SB Gill	6	0	0.0	0.0	1	0.2	14.3	108.1	3	0.5	42.9	94.1	3	0.5	42.9	74.6	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	7	1.2	86
White Bass	2000	Gill	14	0	0.0	0.0	0	0.0	0.0	0.0	4	0.3	9.3	100.2	24	1.7	55.8	102.8	15	1.1	34.9	107.7	0	0.0	0.0	0.0	0	0.0	0.0	0.0	43	3.1	100
	2001	Gill	5	0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	3	0.6	42.9	101.6	4	0.8	57.1	98.2	0	0.0	0.0	0.0	0	0.0	0.0	0.0	7	1.4	100
	2002	Gill	6	0	0.0	0.0	12	2.0	22.6	89.2	38	6.3	71.7	98.2	3	0.5	5.7	95.6	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	53	8.8	77
	2003	Gill	10	0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	4	0.4	100.0	105.2	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	4	0.4	100
	2005	SB Gill	9	0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	28	3.1	73.7	104.2	10	1.1	26.3	102.5	0	0.0	0.0	0.0	0	0.0	0.0	0.0	38	4.2	100
	2006	SB Gill	6	0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	1	0.2	100.0	92.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	1	0.2	100
Hybrid Striped Bass	2001	Gill	5	3	0.6	3.1	88	17.6	89.8	90.0	6	1.2	6.1	102.5	0	0.0	0.0	0.0	0	0.0	0.0	0.0	1	0.2	1.0	90.9	98	19.6	7				
	2002	Gill	6	4	0.7	3.9	18	3.0	17.3	93.1	4	0.7	3.9	92.6	77	12.8	74.0	98.3	1	0.2	1.0	72.6	0	0.0	0.0	0.0	104	17.3	82				
	2003	Gill	10	0	0.0	0.0	2	0.2	3.1	98.7	3	0.3	4.7	112.2	29	2.9	45.3	103.4	28	2.8	43.8	106.6	2	0.2	3.1	0.0	64	6.4	97				
	2004	Gill	10	0	0.0	0.0	0	0.0	0.0	0.0	1	0.1	4.5	91.9	4	0.4	18.2	95.2	17	1.7	77.3	99.3	0	0.0	0.0	0.0	22	2.2					
	2005	SB Gill	9	0	0.0	0.0	0	0.0	0.0	0.0	2	0.2	0.8	99.8	90	10.0	36.1	100.3	154	17.1	61.8	102.0	3	0.3	1.2	0.0	249	27.7	100				
	2006	SB Gill	6	0	0.0	0.0	0	0.0	0.0	0.0	2	0.3	2.3	95.4	12	2.0	14.0	96.3	69	11.5	80.2	93.3	3	0.5	3.5	nr	86	14.3	100				
Walleye	1998	Gill	6	0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	6	1.0	100.0	103.6	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	6	1.0	
	1999	Gill	15	0	0.0	0.0	0	0.0	0.0	0.0	4	0.3	25.0	101.0	10	0.7	62.5	106.7	2	0.1	12.5	94.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	16	1.1	100
	2000	Gill	14	0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	5	0.4	83.3	98.7	1	0.1	16.7	102.7	0	0.0	0.0	0.0	0	0.0	0.0	0.0	6	0.4	
	2001	Gill	5	0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	1	0.2	100.0	113.2	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	1	0.2	100
	2002	Gill	6	0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	1	0.2	100.0	104.4	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	1	0.2	
	2003	Gill	10	0	0.0	0.0	0	0.0	0.0	0.0	1	0.1	100.0	93.1	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	1	0.1	100
	2004	Gill	10	0	0.0	0.0	15	1.5	100.0	97.5	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	15	1.5	
	2005	SB Gill	9	0	0.0	0.0	0	0.0	0.0	0.0	40	4.4	100.0	98.2	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	40	4.4	100
2006	SB Gill	6	0	0.0	0.0	0	0.0	0.0	0.0	7	1.2	35.0	103.9	13	2.2	65.0	98.7	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	20	3.3	100	
Sauger	1998	Gill	6	0	0.0	0.0	2	0.3	100.0	102.9	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	2	0.3	
	1999	Gill	15	0	0.0	0.0	11	0.7	15.7	89.4	44	2.9	62.9	89.7	15	1.0	21.4	92.7	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	70	4.7	84
	2000	Gill	14	0	0.0	0.0	0	0.0	0.0	0.0	27	1.9	28.1	100.4	69	4.9	71.9	100.4	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	96	6.8	100
	2001	Gill	5	0	0.0	0.0	5	1.0	26.3	96.1	14	2.8	73.7	110.7	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	19	3.8	74
	2002	Gill	6	0	0.0	0.0	0	0.0	0.0	0.0	10	1.7	31.3	92.2	22	3.7	68.8	98.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	32	5.3	100
	2003	Gill	10	0	0.0	0.0	1	0.1	9.1	96.2	3	0.3	27.3	105.7	6	0.6	54.5	101.4	1	0.1	9.1	106.7	0	0.0	0.0	0.0	0	0.0	0.0	0.0	11	1.1	91
2004	Gill	10	0	0.0	0.0	0	0.0	0.0	0.0	35	3.5	74.5	98.9	11	1.1	23.4	103.2	1	0.1	2.1	113.1	0	0.0	0.0	0.0	0	0.0	0.0	0.0	47	4.7		
Saugeye	1998	Gill	6	0	0.0	0.0	1	0.2	3.8	106.2	24	4.0	92.3	105.3	1	0.2	3.8	107.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	26	4.3	96
	1999	Gill	15	0	0.0	0.0	0	0.0	0.0	0.0	2	0.1	9.1	108.1	19	1.3	86.4	106.5	1	0.1	4.6	97.3	0	0.0	0.0	0.0	0	0.0	0.0	0.0	22	1.5	100
	2000	Gill	14	0	0.0	0.0	0	0.0	0.0	0.0	3	0.2	50.0	104.4	0	0.0	0.0	0.0	3	0.2	50.0	104.3	0	0.0	0.0	0.0	0	0.0	0.0	0.0	6	0.4	
Flathead Catfish	1998	Gill	6	0	0.0	0.0	0	0.0	0.0	0.0	2	0.3	100.0	117.3	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	2	0.3	

Table 4. Mean relative weight and standard error values by size class for Cherokee Reservoir largemouth bass collected during the 2007 electrofishing sample.

<b>Size Class</b>	<b>Mean Wr</b>	<b>Std. Error</b>	<b>N</b>
6	91.0	2.9	4
7	85.2	1.8	4
8	89.8	1.4	16
9	93.1	4.9	5
10	84.0	3.3	8
11	89.3	1.3	8
12	93.2	2.5	13
13	92.5	2.6	10
14	95.6	1.9	17
15	95.7	1.9	19
16	93.4	1.5	25
17	93.3	2.1	27
18	93.2	1.5	14
19	91.7	2.6	3
20	90.9	8.3	3
21	99.5	1.5	2

**Total Catch** 178

Table 5. Mean relative weight and standard error values by size class for Cherokee Reservoir black crappie collected during the 2007 trap net sample.

<b>Size Class</b>	<b>Mean Wr</b>	<b>Std. Error</b>	<b>N</b>
5	90.3	4.5	7
6	98.1	2.4	32
7	98.9	0.9	78
8	100.2	0.7	144
9	96.5	0.6	135
10	96.4	0.5	137
11	96.7	0.9	70
12	98.9	1.0	26
13	94.5	4.5	5
14	94.3		1
15	97.6		1

**Total Catch** 636

Table 6. Mean relative weight and standard error values by size class for Cherokee Reservoir black crappie collected during the 2007 electrofishing sample.

Size Class	Mean Wr	Std. Error	N
8	103.4	2.6	3
9	89.4	2.8	4
10	100.3	2.7	10
11	98.2	1.9	12
12	97.1	2.1	10
13	100.2	2.1	3
14	80.0		1
<b>Total Catch</b>			<b>43</b>

Table 7. Geometric means of Region IV's shad gill net catches from 2001 to 2007

Reservoir	Year	Alewife	Threadfin	Gizzard
Norris	2001	2.1	8.8	1.9
Norris	2002	0.3	5.8	4.3
Cherokee	2002	16.2	17.1	14.1
Norris	2003	17.3	17.9	5.8
Cherokee	2003	67.3	1.9	67.7
S. Holston	2003	8.2	5.5	4.0
Boone	2003	107.3	0.0	14.4
Norris	2004	0.7	14.6	3.7
Cherokee	2004	5.3	9.7	9.3
S. Holston	2004	1.8	4.0	2.2
Boone	2004	3.0	1.5	42.3
Norris	2005	0.4	3.8	5.3
Cherokee	2005	0.1	1.6	1.7
S. Holston	2005	0.2	3.9	3.1
Boone	2005	2.4	15.9	26.1
Norris	2006	0.1	1.1	0.9
Cherokee	2006	0.4	3.0	3.3
S. Holston	2006	0.2	2.7	1.3
Boone	2006	2.4	11.2	25.9
Norris	2007	1.6	6.2	1.7
Cherokee	2007	0.4	2.0	3.3
Douglas	2007	0.0	91.4	19.5
Boone	2007	3.3	40.2	23.9

Table 8. Length range and weighted mean length by age of hybrid striped bass from Cherokee Reservoir's 2007 winter gill net sample.

AGE	Minimum length at capture	Weighted mean length at capture	Maximum length at capture	N
2	18.5	<b>18.8</b>	19.1	2
3	19.4	<b>20.0</b>	21.1	6
4	21.5	<b>22.6</b>	23.5	6
5	23.2	<b>23.4</b>	23.6	2
6	23.8	<b>23.8</b>	23.8	1
7	25.0	<b>25.0</b>	25.0	1

Table 9. Length range and weighted mean length by age of striped bass from Cherokee Reservoir's 2007 winter gill net sample.

AGE	Minimum length at capture	Weighted mean length at capture	Maximum length at capture	N
2	15.2	<b>17.7</b>	19.1	6
3	19.7	<b>22.0</b>	23.9	4
4	28.2	<b>28.2</b>	28.2	1
5	29.2	<b>29.2</b>	29.2	1
6				0
7				0
8				0
9				0
10				0
11	31.3	<b>31.3</b>	31.3	1

Table 10. Length range and weighted mean length by age of walleye from Cherokee Reservoir's 2007 winter gill net sample.

AGE	Minimum length at capture	Weighted mean length at capture	Maximum length at capture	N
2	18.4	<b>18.4</b>	18.4	1
3	19.9	<b>20.4</b>	20.7	5
4	20.9	<b>21.6</b>	22.0	3

Table 11. Cherokee Reservoir fish habitat enhancement summary for 2007.

LOCATION	NEW SITES			RENOVATED SITES			EXPANDED SITES		
	NUMBER	UNITS	ACRES	NUMBER	UNITS	ACRES	NUMBER	UNITS	ACRES
HRM 60.0 R*				1	75	1.50			
HRM 60.0 R*				1	50	1.00			
HRM 60.0 R*				1	100	2.00			
HRM 60.0 R*				1	150	3.00			
HRM 60.0 R*				1	50	1.00			
				5	425	8.50			

\*Christmas trees

Table 12. Summary of July 2007 Cherokee Reservoir water quality parameters at Holston River Mile 55.

Depth (ft)	Temp (F)	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	81.3	261	8.4	7.8	H55	8.2	0630	7/3/2007
3	81.3	260	8.3	7.9				
7	81.3	260	8.3	7.9				
10	81.3	260	8.3	8.0				
13	81.3	260	8.3	7.9				
16	81.3	260	8.3	8.0				
20	81.3	260	8.3	8.4				
23	81.3	260	8.3	8.3				
26	81.0	260	8.3	8.7				
30	74.7	280	8.1	5.7				
33	70.7	296	8.0	3.5				
36	67.6	297	7.9	3.3				
39	64.8	294	7.9	4.0				
43	63.1	295	7.9	4.0				
46	62.2	293	7.8	3.9				
49	59.4	303	7.8	3.1				
52	57.7	304	7.8	2.9				
56	56.1	303	7.8	2.8				
59	54.5	303	7.8	2.7				
62	53.6	303	7.7	2.9				
66	52.9	302	7.7	2.8				
69	52.5	304	7.7	2.6				
72	52.2	304	7.7	2.6				
75	51.3	303	7.7	2.4				
79	50.2	303	7.7	2.3				
82	49.8	303	7.7	1.8				
85	49.6	302	7.6	1.6				
89	49.6	302	7.6	1.6				
92	49.5	301	7.6	1.5				
95	49.3	301	7.6	1.4				
98	49.1	300	7.6	1.3				

Table 13. Summary of July 2007 Cherokee Reservoir water quality parameters at Holston River Mile 66.

Depth (ft)	Temp (F)	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	81.3	293	8.3	6.5	H66	6.6	0730	7/3/2007
3	81.3	294	8.3	6.4				
7	81.3	294	8.3	6.4				
10	81.3	294	8.3	6.3				
13	81.5	294	8.3	6.1				
16	81.3	294	8.2	6.4				
20	79.2	287	8.2	4.8				
23	75.4	289	8.1	2.1				
26	74.8	285	8.0	2.5				
30	73.8	289	7.9	1.5				
33	71.4	296	7.9	0.6				
36	68.4	302	7.8	0.2				
39	66.0	307	7.8	0.2				
43	63.7	308	7.8	0.2				
46	62.1	310	7.8	0.2				
49	59.5	314	7.8	0.2				
52	57.6	317	7.7	0.2				
56	56.7	321	7.7	0.2				
59	56.3	320	7.7	0.2				
62	55.2	320	7.7	0.2				
66	54.1	322	7.7	0.2				
69	52.7	324	7.7	0.2				
72	51.8	324	7.7	0.2				
75	50.7	319	7.7	0.2				
79	50.2	316	7.7	0.2				
82	49.8	313	7.7	0.2				
85	49.6	313	7.7	0.2				
89	49.5	312	7.7	0.2				
92	49.5	311	7.6	0.2				
95	49.3	309	7.6	0.2				
98	49.3	309	7.6	0.2				

Table 14. Summary of July 2007 Cherokee Reservoir water quality parameters at Holston River Mile 75.

Depth (ft)	Temp (F)	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	81.9	283	8.2	7.0	H75	6.6	0830	7/3/2007
3	81.9	283	8.3	7.1				
7	81.9	283	8.3	7.4				
10	81.9	282	8.2	7.4				
13	81.7	281	8.2	7.3				
16	81.3	288	8.2	6.4				
20	78.1	332	8.0	2.7				
23	76.1	338	7.9	2.4				
26	73.8	334	7.8	2.2				
30	71.2	324	7.8	2.2				
33	68.7	320	7.7	2.2				
36	66.4	323	7.7	2.2				
39	63.5	323	7.7	2.1				
43	60.6	328	7.6	1.9				
46	59.5	328	7.6	1.6				
49	58.1	331	7.6	1.5				
52	56.3	334	7.6	1.4				
56	54.7	345	7.6	1.4				
59	54.0	350	7.5	1.4				
62	53.8	348	7.5	1.3				
66	52.9	342	7.5	1.2				
69	52.3	338	7.5	1.2				
72	51.6	334	7.5	1.1				

Table 15. Summary of July 2007 Cherokee Reservoir water quality parameters at Holston River Mile 83.

Depth (ft)	Temp (F)	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	82.6	271	8.1	8.3	H83	4.9	1000	7/3/2007
3	82.8	271	8.1	8.4				
7	82.6	272	8.1	8.5				
10	82.2	277	8.0	8.2				
13	81.9	282	7.9	6.7				
16	81.5	285	7.8	7.3				
20	79.5	303	7.7	5.8				
23	76.8	326	7.6	5.3				
26	73.6	335	7.5	5.2				
30	68.2	334	7.5	5.8				
33	66.2	333	7.4	6.3				
36	63.9	335	7.4	5.2				
39	61.5	333	7.3	5.9				
43	58.8	335	7.3	4.9				
46	57.0	336	7.3	4.4				
49	55.9	337	7.2	5.1				
52	55.2	340	7.2	4.4				
56	54.5	344	7.2	4.0				
59	54.1	346	7.2	3.7				

Table 16. Summary of August 2007 Cherokee Reservoir water quality parameters at Holston River Mile 55.

Depth (ft)	Temp (F)	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	82.6	277	8.6	7.2	H55	10.5	0700	8/2/2007
3	82.6	277	8.5	7.4				
7	82.6	277	8.5	7.5				
10	81.9	276	8.5	7.1				
13	81.5	277	8.5	7.0				
16	81.0	276	8.5	7.3				
20	80.2	273	8.5	7.5				
23	79.5	273	8.5	7.6				
26	78.8	275	8.4	6.1				
30	78.4	277	8.4	5.1				
33	76.8	283	8.3	3.7				
36	72.9	293	8.1	0.3				
39	69.3	296	8.0	0.4				
43	67.5	293	8.0	1.1				
46	66.2	293	8.0	1.3				
49	64.6	294	8.0	0.7				
52	63.3	296	8.0	0.2				
56	62.2	298	7.9	0.2				
59	61.0	304	7.9	0.2				
62	59.5	306	7.9	0.2				
66	58.8	308	7.9	0.2				
69	57.6	311	7.8	0.2				
72	56.7	313	7.8	0.2				
75	55.9	314	7.8	0.2				
79	55.0	315	7.8	0.2				
82	54.1	319	7.8	0.2				
85	53.4	318	7.8	0.2				
89	53.1	320	7.8	0.2				
92	52.7	319	7.8	0.2				
95	52.3	320	7.8	0.2				
98	51.8	319	7.8	0.2				

Table 17. Summary of August 2007 Cherokee Reservoir water quality parameters at Holston River Mile 66.

Depth (ft)	Temp (F)	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	82.2	284	9.2	7.9	H66	9.2	0800	8/2/2007
3	82.2	284	9.1	8.2				
7	81.5	284	9.0	8.1				
10	80.2	284	8.9	8.2				
13	79.5	285	8.8	7.9				
16	79.0	285	8.7	8.0				
20	78.8	285	8.7	7.5				
23	78.4	285	8.6	7.5				
26	78.3	287	8.5	7.1				
30	77.5	287	8.4	6.3				
33	77.2	287	8.3	5.7				
36	75.9	291	8.2	4.1				
39	73.9	298	8.2	3.8				
43	70.5	303	8.1	3.7				
46	68.2	305	8.1	3.1				
49	66.4	307	8.0	3.0				
52	64.8	308	8.0	3.0				
56	63.5	311	8.0	2.5				
59	61.2	318	7.9	2.3				
62	60.4	322	7.9	2.1				
66	59.4	324	7.8	2.0				
69	58.3	334	7.8	1.9				
72	57.0	335	7.8	1.8				
75	56.3	336	7.8	1.7				
79	55.6	336	7.8	1.6				
82	54.9	334	7.7	1.6				
85	53.8	333	7.7	1.6				
89	53.2	332	7.7	1.5				
92	53.1	330	7.7	1.4				
95	52.3	330	7.7	1.3				
98	52.0	328	7.7	1.3				

Table 18. Summary of August 2007 Cherokee Reservoir water quality parameters at Holston River Mile 75.

Depth (ft)	Temp (F)	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	83.3	264	8.7	9.9	H75	6.0	0856	8/2/2007
3	83.3	264	8.9	9.8				
7	81.9	270	8.9	9.8				
10	80.6	280	8.8	6.8				
13	79.7	284	8.7	5.4				
16	79.2	288	8.5	2.9				
20	78.6	291	8.3	1.8				
23	78.4	292	8.2	1.4				
26	78.1	294	8.1	0.9				
30	77.5	301	8.1	0.2				
33	77.0	308	8.0	0.3				
36	75.2	315	8.0	0.2				
39	72.5	318	8.0	0.2				
43	71.1	321	7.9	0.1				
46	67.6	324	7.9	0.1				
49	66.6	326	7.9	0.1				
52	65.5	329	7.9	0.1				
56	62.8	336	7.8	0.1				
59	62.4	339	7.8	0.1				
62	61.2	347	7.8	0.1				
66	60.3	352	7.7	0.1				
69	58.3	355	7.7	0.1				

Table 19. Summary of August 2007 Cherokee Reservoir water quality parameters at Holston River Mile 83.

Depth (ft)	Temp (F)	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	83.8	259	8.8	12.3	H83	4.3	0940	8/2/2007
3	82.8	261	8.8	10.4				
7	81.9	264	8.9	9.5				
10	80.8	276	8.7	6.5				
13	79.5	289	8.5	3.3				
16	79.2	294	8.4	2.0				
20	79.0	298	8.3	1.3				
23	78.6	300	8.2	0.5				
26	78.1	305	8.1	0.4				
30	77.7	307	8.0	0.3				
33	77.2	308	8.0	0.2				
36	75.7	315	8.0	0.2				
39	72.1	337	7.9	0.2				
43	69.3	345	7.9	0.2				
46	66.0	351	7.8	0.2				
49	64.8	355	7.8	0.2				
52	63.5	358	7.7	0.2				
56	61.7	364	7.7	0.2				

Table 20. Summary of September 2007 Cherokee Reservoir water quality parameters at Holston River Mile 55.

Depth (ft)	Temp (F)	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	83.3	280	8.4	7.4	H55	9.8	0745	9/7/2007
3	83.3	280	8.4	7.6				
7	83.3	280	8.4	7.6				
10	83.3	279	8.4	7.5				
13	83.3	280	8.4	7.5				
16	83.3	280	8.4	7.2				
20	83.3	280	8.4	7.1				
23	83.1	280	8.4	6.8				
26	82.6	283	8.4	5.1				
30	81.5	290	8.2	2.1				
33	80.4	294	8.1	0.7				
36	78.6	297	8.0	0.2				
39	77.9	297	7.9	0.2				
43	77.0	298	7.9	0.2				
46	75.7	300	7.9	0.2				
49	74.5	300	7.8	0.2				
52	73.8	300	7.8	0.2				
56	72.7	298	7.8	0.2				
59	71.8	298	7.8	0.2				
62	71.2	298	7.7	0.1				
66	70.0	300	7.7	0.1				
69	68.9	301	7.7	0.1				
72	67.6	305	7.7	0.1				
75	66.6	310	7.7	0.1				
79	65.8	311	7.6	0.1				
82	64.8	318	7.6	0.1				
85	63.7	325	7.6	0.1				
89	62.8	330	7.6	0.1				
92	62.1	336	7.5	0.1				
95	60.8	346	7.5	0.1				
98	60.6	347	7.5	0.1				

Table 21. Summary of September 2007 Cherokee Reservoir water quality parameters at Holston River Mile 66.

Depth (ft)	Temp (F)	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	82.6	288	8.3	6.1	H66	8.2	0900	9/7/2007
3	82.6	288	8.3	5.2				
7	82.6	288	8.3	5.6				
10	82.6	288	8.3	5.4				
13	82.6	288	8.3	5.3				
16	82.6	288	8.2	5.4				
20	82.6	288	8.2	5.4				
23	82.6	288	8.2	5.3				
26	82.6	288	8.2	4.9				
30	82.2	288	8.2	3.8				
33	81.5	292	8.0	1.3				
36	80.2	297	7.9	0.3				
39	79.0	301	7.9	0.2				
43	77.9	304	7.8	0.2				
46	77.0	306	7.8	0.2				
49	76.1	308	7.7	0.1				
52	74.7	314	7.7	0.1				
56	73.2	315	7.7	0.1				
59	72.1	321	7.6	0.1				
62	71.2	325	7.6	0.1				
66	69.6	330	7.6	0.1				
69	68.4	338	7.5	0.1				
72	67.5	347	7.5	0.1				
75	66.7	353	7.5	0.1				
79	65.7	357	7.5	0.1				
82	64.2	363	7.4	0.1				
85	62.2	367	7.4	0.1				

Table 22. Summary of September 2007 Cherokee Reservoir water quality parameters at Holston River Mile 75.

Depth (ft)	Temp (F)	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	82.9	295	8.2	4.8	H75	6.6	0945	9/7/2007
3	82.9	294	8.2	4.7				
7	82.9	294	8.2	4.8				
10	82.9	295	8.2	4.7				
13	82.9	294	8.1	4.7				
16	82.9	295	8.1	4.4				
20	82.9	294	8.1	4.0				
23	82.9	295	8.1	4.0				
26	82.8	296	8.1	3.8				
30	82.0	305	7.9	0.6				
33	81.1	308	7.8	0.2				
36	79.9	309	7.7	0.2				
39	79.0	312	7.7	0.1				
43	77.9	317	7.7	0.1				
46	77.0	322	7.6	0.1				
49	76.1	327	7.6	0.1				
52	75.0	336	7.5	0.1				
56	73.2	352	7.5	0.1				
59	72.0	412	7.4	0.1				

Table 23. Summary of September 2007 Cherokee Reservoir water quality parameters at Holston River Mile 83.

Depth (ft)	Temp (F)	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	83.5	288	8.2	7.1	H83	3.9	1030	9/7/2007
3	83.1	288	8.3	7.0				
7	83.1	289	8.3	6.8				
10	82.9	289	8.2	7.2				
13	82.9	290	8.2	7.1				
16	82.9	291	8.1	7.1				
20	82.6	292	8.0	6.7				
23	82.6	294	7.9	4.6				
26	82.4	295	7.8	4.1				
30	82.0	297	7.8	5.8				
33	81.7	301	7.7	4.5				
36	81.3	309	7.6	3.9				
39	79.3	337	7.6	3.5				
43	76.5	361	7.5	4.1				

Table 24. Cherokee Reservoir water levels for 2007. (TVA)

ELEVATION	MONTH	DAY	ELEVATION	MONTH	DAY	ELEVATION	MONTH	DAY
1042.23	JANUARY	1	1040.25	FEBRUARY	24	1053.15	APRIL	19
1041.86	JANUARY	2	1040.42	FEBRUARY	25	1053.41	APRIL	20
1041.62	JANUARY	3	1040.62	FEBRUARY	26	1053.62	APRIL	21
1041.07	JANUARY	4	1040.79	FEBRUARY	27	1053.81	APRIL	22
1040.85	JANUARY	5	1040.97	FEBRUARY	28	1053.97	APRIL	23
1040.79	JANUARY	6	1041.22	MARCH	1	1054.13	APRIL	24
1040.70	JANUARY	7	1041.61	MARCH	2	1054.28	APRIL	25
1040.40	JANUARY	8	1042.13	MARCH	3	1054.44	APRIL	26
1040.85	JANUARY	9	1042.59	MARCH	4	1054.60	APRIL	27
1040.96	JANUARY	10	1042.93	MARCH	5	1054.76	APRIL	28
1040.45	JANUARY	11	1043.19	MARCH	6	1054.90	APRIL	29
1039.97	JANUARY	12	1043.41	MARCH	7	1055.02	APRIL	30
1040.45	JANUARY	13	1043.60	MARCH	8	1055.13	MAY	1
1040.64	JANUARY	14	1043.78	MARCH	9	1055.25	MAY	2
1040.72	JANUARY	15	1043.95	MARCH	10	1055.40	MAY	3
1040.65	JANUARY	16	1044.11	MARCH	11	1055.51	MAY	4
1040.87	JANUARY	17	1044.24	MARCH	12	1055.64	MAY	5
1040.86	JANUARY	18	1044.38	MARCH	13	1055.79	MAY	6
1040.92	JANUARY	19	1044.55	MARCH	14	1055.87	MAY	7
1041.03	JANUARY	20	1044.76	MARCH	15	1056.00	MAY	8
1040.95	JANUARY	21	1045.10	MARCH	16	1056.09	MAY	9
1040.81	JANUARY	22	1045.59	MARCH	17	1056.19	MAY	10
1040.81	JANUARY	23	1046.17	MARCH	18	1056.27	MAY	11
1040.92	JANUARY	24	1046.54	MARCH	19	1056.39	MAY	12
1041.03	JANUARY	25	1046.86	MARCH	20	1056.50	MAY	13
1040.98	JANUARY	26	1047.10	MARCH	21	1056.58	MAY	14
1041.04	JANUARY	27	1047.31	MARCH	22	1056.67	MAY	15
1041.13	JANUARY	28	1047.50	MARCH	23	1056.76	MAY	16
1040.80	JANUARY	29	1047.67	MARCH	24	1056.83	MAY	17
1040.64	JANUARY	30	1047.83	MARCH	25	1056.88	MAY	18
1040.59	JANUARY	31	1047.97	MARCH	26	1056.95	MAY	19
1040.47	FEBRUARY	1	1048.12	MARCH	27	1057.02	MAY	20
1040.44	FEBRUARY	2	1048.26	MARCH	28	1057.10	MAY	21
1040.57	FEBRUARY	3	1048.40	MARCH	29	1057.20	MAY	22
1040.54	FEBRUARY	4	1048.50	MARCH	30	1057.28	MAY	23
1040.30	FEBRUARY	5	1048.65	MARCH	31	1057.36	MAY	24
1040.17	FEBRUARY	6	1048.80	APRIL	1	1057.35	MAY	25
1040.26	FEBRUARY	7	1048.93	APRIL	2	1057.43	MAY	26
1040.09	FEBRUARY	8	1049.06	APRIL	3	1057.36	MAY	27
1040.09	FEBRUARY	9	1049.23	APRIL	4	1057.34	MAY	28
1040.06	FEBRUARY	10	1049.39	APRIL	5	1057.38	MAY	29
1040.11	FEBRUARY	11	1049.52	APRIL	6	1057.36	MAY	30
1040.13	FEBRUARY	12	1049.67	APRIL	7	1057.37	MAY	31
1040.25	FEBRUARY	13	1049.81	APRIL	8	1057.34	JUNE	1
1040.26	FEBRUARY	14	1049.93	APRIL	9	1057.46	JUNE	2
1040.15	FEBRUARY	15	1050.05	APRIL	10	1057.59	JUNE	3
1040.10	FEBRUARY	16	1050.23	APRIL	11	1057.56	JUNE	4
1040.15	FEBRUARY	17	1050.39	APRIL	12	1057.57	JUNE	5
1040.21	FEBRUARY	18	1050.55	APRIL	13	1057.59	JUNE	6
1040.12	FEBRUARY	19	1050.82	APRIL	14	1057.69	JUNE	7
1040.01	FEBRUARY	20	1051.41	APRIL	15	1057.94	JUNE	8
1040.05	FEBRUARY	21	1051.97	APRIL	16	1058.17	JUNE	9
1039.95	FEBRUARY	22	1052.47	APRIL	17	1058.27	JUNE	10
1040.02	FEBRUARY	23	1052.85	APRIL	18	1057.99	JUNE	11

Table 25. Cherokee Reservoir water levels for 2007. (TVA)

ELEVATION	MONTH	DAY	ELEVATION	MONTH	DAY	ELEVATION	MONTH	DAY
1057.73	JUNE	12	1053.29	AUGUST	5	1041.45	SEPTEMBER	28
1057.47	JUNE	13	1052.90	AUGUST	6	1041.54	SEPTEMBER	29
1057.31	JUNE	14	1052.45	AUGUST	7	1041.68	SEPTEMBER	30
1057.13	JUNE	15	1052.02	AUGUST	8	1041.31	OCTOBER	1
1056.99	JUNE	16	1051.58	AUGUST	9	1040.94	OCTOBER	2
1056.86	JUNE	17	1051.10	AUGUST	10	1040.45	OCTOBER	3
1056.53	JUNE	18	1050.70	AUGUST	11	1040.04	OCTOBER	4
1056.39	JUNE	19	1050.28	AUGUST	12	1039.56	OCTOBER	5
1056.17	JUNE	20	1049.66	AUGUST	13	1039.54	OCTOBER	6
1056.04	JUNE	21	1049.30	AUGUST	14	1039.49	OCTOBER	7
1055.97	JUNE	22	1048.99	AUGUST	15	1039.00	OCTOBER	8
1056.03	JUNE	23	1048.65	AUGUST	16	1038.86	OCTOBER	9
1056.16	JUNE	24	1048.25	AUGUST	17	1038.41	OCTOBER	10
1055.79	JUNE	25	1048.03	AUGUST	18	1037.93	OCTOBER	11
1055.50	JUNE	26	1047.78	AUGUST	19	1037.50	OCTOBER	12
1055.50	JUNE	27	1047.32	AUGUST	20	1037.44	OCTOBER	13
1055.49	JUNE	28	1046.83	AUGUST	21	1037.39	OCTOBER	14
1055.51	JUNE	29	1046.30	AUGUST	22	1037.03	OCTOBER	15
1055.61	JUNE	30	1045.77	AUGUST	23	1036.60	OCTOBER	16
1055.64	JULY	1	1045.25	AUGUST	24	1036.22	OCTOBER	17
1055.33	JULY	2	1045.07	AUGUST	25	1035.85	OCTOBER	18
1055.10	JULY	3	1044.86	AUGUST	26	1035.85	OCTOBER	19
1054.86	JULY	4	1044.42	AUGUST	27	1035.85	OCTOBER	20
1054.65	JULY	5	1044.01	AUGUST	28	1035.86	OCTOBER	21
1054.45	JULY	6	1043.57	AUGUST	29	1035.87	OCTOBER	22
1054.54	JULY	7	1043.07	AUGUST	30	1035.91	OCTOBER	23
1054.43	JULY	8	1042.36	AUGUST	31	1035.92	OCTOBER	24
1054.06	JULY	9	1042.18	SEPTEMBER	1	1035.91	OCTOBER	25
1053.82	JULY	10	1041.96	SEPTEMBER	2	1035.99	OCTOBER	26
1053.67	JULY	11	1041.74	SEPTEMBER	3	1036.10	OCTOBER	27
1053.58	JULY	12	1041.56	SEPTEMBER	4	1036.24	OCTOBER	28
1053.65	JULY	13	1041.45	SEPTEMBER	5	1036.34	OCTOBER	29
1053.71	JULY	14	1041.32	SEPTEMBER	6	1036.45	OCTOBER	30
1053.77	JULY	15	1041.14	SEPTEMBER	7	1036.57	OCTOBER	31
1053.74	JULY	16	1041.23	SEPTEMBER	8	1036.71	NOVEMBER	1
1053.73	JULY	17	1041.29	SEPTEMBER	9	1036.73	NOVEMBER	2
1053.75	JULY	18	1041.27	SEPTEMBER	10	1036.75	NOVEMBER	3
1053.82	JULY	19	1041.32	SEPTEMBER	11	1036.74	NOVEMBER	4
1053.80	JULY	20	1041.31	SEPTEMBER	12	1036.86	NOVEMBER	5
1053.79	JULY	21	1041.32	SEPTEMBER	13	1036.92	NOVEMBER	6
1053.76	JULY	22	1041.52	SEPTEMBER	14	1036.98	NOVEMBER	7
1053.75	JULY	23	1041.68	SEPTEMBER	15	1037.02	NOVEMBER	8
1053.75	JULY	24	1041.82	SEPTEMBER	16	1037.10	NOVEMBER	9
1053.78	JULY	25	1041.73	SEPTEMBER	17	1037.15	NOVEMBER	10
1053.80	JULY	26	1041.76	SEPTEMBER	18	1037.16	NOVEMBER	11
1053.83	JULY	27	1041.80	SEPTEMBER	19	1037.16	NOVEMBER	12
1054.09	JULY	28	1041.80	SEPTEMBER	20	1037.18	NOVEMBER	13
1054.22	JULY	29	1041.79	SEPTEMBER	21	1037.24	NOVEMBER	14
1054.05	JULY	30	1041.92	SEPTEMBER	22	1037.25	NOVEMBER	15
1053.87	JULY	31	1042.06	SEPTEMBER	23	1037.27	NOVEMBER	16
1053.68	AUGUST	1	1041.95	SEPTEMBER	24	1037.24	NOVEMBER	17
1053.55	AUGUST	2	1041.81	SEPTEMBER	25	1037.28	NOVEMBER	18
1053.34	AUGUST	3	1041.69	SEPTEMBER	26	1037.33	NOVEMBER	19
1053.37	AUGUST	4	1041.56	SEPTEMBER	27	1037.44	NOVEMBER	20

Table 26. Cherokee Reservoir water levels for 2007. (TVA)

ELEVATION	MONTH	DAY
1037.53	NOVEMBER	21
1037.58	NOVEMBER	22
1037.64	NOVEMBER	23
1037.66	NOVEMBER	24
1037.73	NOVEMBER	25
1037.79	NOVEMBER	26
1037.86	NOVEMBER	27
1037.95	NOVEMBER	28
1038.01	NOVEMBER	29
1038.04	NOVEMBER	30
1038.11	DECEMBER	1
1038.19	DECEMBER	2
1038.25	DECEMBER	3
1038.31	DECEMBER	4
1038.38	DECEMBER	5
1038.43	DECEMBER	6
1038.49	DECEMBER	7
1038.55	DECEMBER	8
1038.62	DECEMBER	9
1038.68	DECEMBER	10
1038.73	DECEMBER	11
1038.84	DECEMBER	12
1038.90	DECEMBER	13
1038.96	DECEMBER	14
1039.10	DECEMBER	15
1039.12	DECEMBER	16
1039.21	DECEMBER	17
1039.27	DECEMBER	18
1039.37	DECEMBER	19
1039.44	DECEMBER	20
1039.58	DECEMBER	21
1039.60	DECEMBER	22
1039.68	DECEMBER	23
1039.77	DECEMBER	24
1039.85	DECEMBER	25
1039.90	DECEMBER	26
1039.99	DECEMBER	27
1040.17	DECEMBER	28
1040.30	DECEMBER	29
1040.44	DECEMBER	30
1040.56	DECEMBER	31

Table 27. Summary of creel results for Cherokee Reservoir 1998-2006.

Cherokee Species	YEAR	Intended % Effort	Intended Angler Hrs	Intended Angler Trips	Intended Trip Expeniture	Intended Caught	Intended Caught per hr	Intended Harvested	Intended Harvested per hr	Intended Interviews	(Total) Caught	(Total) Harvest	Ave Weight lb	(#) Fish Rec.	% Released	% Harvest Composition	Total Res Intend Effort Hrs		
Any Species	1998	4.5	21,705	4,635															
	1999	4.6	16,564	3,404			0.90		0.59	48									
	2000	8.9	41,461	8,105	\$28,050		1.25		0.70	92									
	2002	7.0	30,438	5,576	\$21,480		1.64		1.05	61									
	2004	6.3	29,846	5,156	\$7,650		1.23		0.63	48									
	2006	5.0	20,425	3,739	\$4,410		1.25		0.73	43									
Any(All) Blackbass	1998	42.1	204,865	43,750							157,447	20,145		319					
	1999	37.2	133,874	27,514		93,534	0.63	11,397	0.08	586	98,628	12,838		332					
	2000	2.3	10,798	2,068	\$14,630	108,850	0.53	7,062	0.01	47	135,218	9,946		171					
	2002	0.1	412	72	\$340	158,686	2.00	2,931	0.00	2	196,789	5,159		130					
	2004	0.3	1,587	262	\$3,080	120,189	0.33	1,109	0.00	4	153,639	4,622		86					
	2006	0.2	946	169	\$6,320	160,959	0.97	1,867	0.00	3	194,423	2,870		51					
Any(All) Crappie	1998	10.9	52,991	11,316							82,802	19,035		341					
	1999	13.5	48,438	9,956		104,608	2.24	33,704	0.78	205	106,676	33,980		837					
	2000	15.0	70,005	12,975	\$44,280	124,399	1.91	30,577	0.53	260	126,371	30,815		642					
	2002	17.1	74,223	13,715	\$27,970	62,258	1.06	17,043	0.37	241	64,080	17,368		375					
	2004	20.4	96,689	16,832	\$57,660	68,262	1.03	25,148	0.41	259	70,180	25,544		518					
	2006	16.5	66,884	12,284	\$16,870	73,591	1.58	22,895	0.51	229	75,453	22,895		474					
Any(All) Sunfish	1998	1.8	8,558	1,828							36,973	20,268		433					
	1999	1.1	3,958	813		12,902	3.18	9,228	2.32	13	23,673	12,723		324					
	2000	1.2	5,393	1,094	\$4,510	36,286	3.08	21,884	1.83	12	74,346	32,299		521					
	2002	1.2	5,376	1,008	\$770		3.17		1.71	12	17,042	9,193							
	2004	0.9	4,223	752	\$3,760		4.29		2.46	11	18,117	10,388							
	2006	1.0	4,069	754	\$2,750	12,684	1.81	6,917	0.87	10	30,337	13,060		263					
Any(All) Catfish	1998	5.9	28,686	6,127							37,134	13,977		221					
	1999	8.1	29,209	6,004		24,557	0.76	18,952	0.58	92	25,849	19,950		493					
	2000	7.8	36,277	7,196	\$28,810	51,168	0.99	37,822	0.77	102	52,045	38,190		627					
	2002	8.5	36,990	6,759	\$31,280	42,551	0.86	27,174	0.62	93	47,674	29,993		649					
	2004	4.4	20,832	3,621	\$14,870	25,825	0.78	16,294	0.52	43	33,673	20,472		335					
	2006	8.9	36,195	6,726	\$23,160	34,272	0.78	21,808	0.52	93	38,474	24,560		437					
Any(All) Temperate Bass	1998		see STRB								87,220	33,287		688					
	1999		see STRB			46,109		18,305			52,833	19,791		526					
	2000	0.0	0	0	\$0	74,574	0.00	29,880	0.00	0	81,875	31,367		482					
	2002	0.1	273	36	\$780	48,755	0.46	22,263	0.15	1	59,434	23,769		580					
	2004	0.2	794	140	\$3,090	34,535	0.99	13,194	0.32	2	78,594	20,819		419					
	2006	0.2	634	112	\$930	25,224	0.00	8,875	0.00	1	51,438	16,192		312					
Large-mouth Bass	1998		not separated prior to 2000 and is the reason lumped into all black bass category										140,246	17,513	2.9	270			
	1999	0.3	996	205		79,167	1.42	9,786	0.50	5	82,777	10,933	2.08	286	86.8	10.2			
	2000	30.7	143,082	26,754	\$156,350	103,203	0.54	6,232	0.04	483	115,572	7,623	2.60	126	93.4	5.2			
	2002	43.3	188,015	34,586	\$201,950	153,091	0.68	2,300	0.01	655	168,754	3,195	2.29	75	98.1	3.2			
	2004	39.7	188,043	32,501	\$459,720	115,622	0.57	958	0.00	566	128,598	2,075	2.45	39	98.4	2.3			
	2006	43.9	177,852	32,513	\$509,540	159,620	0.74	1,867	0.01	641	169,254	2,159	2.37	37	98.7	2.6			
Small-mouth Bass	1998		not separated prior to 2000 and is the reason lumped into all black bass category										15,551	2,549	2.32	48			
	1999	0.2	856	176		14,127	0.46	1,555	0.12	3	15,611	1,849	2.63	44	88.2	1.7			
	2000	2.4	11,366	2,223	\$13,420	5,048	0.24	830	0.05	41	18,448	2,024	2.46	39	89.0	1.4			
	2002	2.4	10,317	1,888	\$10,050	3,942	0.26	244	0.02	35	22,171	1,219	1.97	30	94.5	1.2			
	2004	0.8	3,694	658	\$6,780	4,408	0.68	0	0.00	11	19,810	839	2.77	13	95.8	0.9			
	2006	0.8	3,178	569	\$7,590	1,339	0.39	0	0.00	11	21,605	313	3.19	7	98.6	0.4			
Spotted Bass	1998		not separated prior to 2000 and is the reason lumped into all black bass category										83	83	0.30	1			
	1999	0.0	0	0		240	0.00	56	0.00	0	240	56	0.90	2	76.7	0.1			
	2000	0.0	0	0	\$0	599	0.00	0	0.00	0	1,198	299	1.60	6	75.0	0.2			
	2002	0.2	790	153	\$150	1,653	1.12	387	0.34	3	5,864	745	0.63	25	87.3	0.7			
	2004	0.0	0	0	\$0	159	0.00	151	0.00	0	5,231	1,708	0.88	34	67.3	1.9			
	2006	0.0	0	0	\$0	0	0.00	0	0.00	0	3,564	398	1.05	7	88.8	0.5			
Striped Bass	1998	30.8	149,598	31,948							73,388	25,331	11.49	478					
	1999	28.0	100,551	20,664		31,162	0.32	14,452	0.16	386	32,900	14,783	12.51	400	55.1	13.8			
	2000	29.0	135,125	26,077	\$288,710	66,736	0.40	26,899	0.17	355	69,586	27,289	10.14	420	60.8	18.6			
	2002	17.4	75,660	13,709	\$230,360	20,789	0.18	8,425	0.10	217	22,613	8,513	11.41	193	62.4	8.5			
	2004	22.9	108,442	18,541	\$357,800	22,523	0.18	9,551	0.08	256	25,533	10,113	11.72	198	60.4	11.0			
	2006	11.0	44,587	8,114	\$165,590	4,544	0.11	1,736	0.05	141	5,875	2,213	12.49	51	62.3	2.6			
Cherokee Bass	1998	0.0	0	0							276	90	7.03	3					
	1999	0.0	0	0		0	0.00	0	0.00	0	41	41	7.20	1	0.0	0.0			
	2000	0.0	0	0	\$0	0	0.00	0	0.00	0	169	169	9.68	3	0.0	0.1			
	2002	0.1	549	105	\$450	226	0.32	184	0.32	2	3,503	1,056	4.32	23	69.9	1.1			
	2004	3.8	18,090	3,113	\$54,590	10,207	0.43	2,909	0.14	42	43,727	8,184	6.36	166	81.3	8.9			
	2006	10.0	40,713	7,534	\$107,330	18,380	0.48	6,844	0.18	115	41,076	13,271	5.18	249	67.7	15.8			

Table 28. Summary of creel results for Cherokee Reservoir 1998-2006.

Cherokee Species	YEAR	Intended % Effort	Intended Angler Hrs	Intended Angler Trips	Intended Trip Expenditure	Intended Caught	Intended Caught per hr	Intended Harvested	Intended Harvested per hr	Intended Interviews	(Total) Caught	(Total) Harvest	Ave Weight lb	(#) Fish Rec.	% Released	% Harvest Composition	Total Res Intend Effort Hrs
White Bass	1998	1.3	6,339	1,354							13,556	7,866	1.34	207			
	1999	3	10,896	2,240		14,834	1.92	3,780	0.57	25	19,779	4,894	1.85	123	75.3	4.6	
	2000	1.6	7,463	1,314	\$6,450	7,838	1.29	2,981	0.53	17	12,120	3,909	0.98	59	67.7	2.7	
	2002	2.5	10,743	1,870	\$11,300	27,740	1.90	13,654	1.12	2	33,318	14,200	0.46	364	57.4	14.2	
	2004	0.3	1,277	225	\$1,390	1,805	1.73	734	0.80	4	9,334	2,522	2.35	55	73.0	2.7	
	2006	0.8	3,078	562	\$590	2,300	1.41	295	0.05	9	4,487	708	3.95	12	84.2	0.8	
Walleye	1998	2.3	11,166	2,383							12,105	2,360	2.11	63			
	1999	3.3	12,036	2,475		5,642	0.54	2,344	0.24	36	7,437	3,033	1.87	66	59.2	2.8	
	2000	1.1	5,303	943	\$3,780	2,044	0.37	935	0.18	21	2,743	1,351	2.01	26	50.7	0.9	
	2002	0.2	794	140	\$1,140	0	0.00	0	0.00	2	118	118	1.40	3	0.0	0.1	
	2004	0.1	656	120	\$1,640	415	0.44	104	0.13	2	711	104	1.40	2	85.4	0.1	
	2006	1.7	6,805	1,301	\$7,670	5,966	0.78	2,520	0.32	18	7,504	3,150	2.47	55	58.0	3.7	
Sauger	1998										0	0	na	0	na		
	1999					0		0			1,026	407	1.28	10	60.3	0.4	
	2000					56		0			1,169	477	2.04	8	59.2	0.3	
	2002					0		0			114	0	na	0	100.0	0.0	
	2004					0		0			185	0	na	0	100.0	0.0	
	2006					0		0			145	0	na	0	100.0	0.0	
White Crappie	1998										16,758	3,708	1.18	71			
	1999					19,762		6,738			20,312	6,851	1.17	182	66.3	6.4	
	2000					18,020		4,683			18,509	4,793	0.89	87	74.1	3.3	
	2002					28,556		6,528			29,824	6,713	0.79	145	77.5	6.7	
	2004					9,840		1,954			10,625	1,954	0.65	38	81.6	2.1	
	2006					3,362		751			3,708	751	0.61	16	79.7	0.9	
Black Crappie	1998										55,878	12,526	0.56	229			
	1999					69,653		23,731			70,944	23,857	0.81	567	66.4	22.3	
	2000					86,477		20,514			87,769	20,563	0.82	416	76.6	14.0	
	2002					27,048		8,410			27,380	8,502	0.97	185	68.9	8.5	
	2004					55,343		22,029			56,429	22,425	0.77	453	60.3	24.4	
	2006					69,825		21,827			71,341	21,827	0.78	450	69.4	26.0	
Black-nose Crappie	1998										10,166	2,801	0.65	41			
	1999					15,193		3,235			15,420	3,272	1.20	88	78.8	3.1	
	2000					19,902		5,380			20,093	5,459	0.93	139	72.8	3.7	
	2002					6,654		2,105			6,876	2,153	1.11	45	68.7	2.2	
	2004					3,079		1,165			3,126	1,165	0.83	27	62.7	1.3	
	2006					404		317			404	317	1.16	8	21.5	0.4	
Bluegill	1998										36,973	20,268	0.39	433			
	1999					12,902		9,228			23,673	12,723	0.50	324	46.3	11.9	
	2000					36,286		21,884			74,219	32,299	0.19	521	56.5	22.0	
	2002										17,042	9,193					
	2004										18,117	10,388					
	2006					12,684		6,917			30,337	13,060	0.25	263	57.0	15.5	
Channel Catfish	1998										26,625	11,556	2.20	181			
	1999					22,935		17,365			23,694	17,865	3.37	429	24.6	16.7	
	2000					46,507		33,297			47,038	33,424	1.65	526	28.9	22.8	
	2002					37,418		22,551			42,292	25,180	1.76	546	40.5	25.3	
	2004					24,264		14,941			31,966	19,067	1.43	305	40.4	20.8	
	2006					28,646		17,560			32,848	20,312	1.82	369	38.2	24.2	
Flathead Catfish	1998										8,200	1,203	4.22	18			
	1999					1,137		1,102			1,585	1,515	9.33	44	4.4	1.4	
	2000					3,877		3,770			4,066	3,910	6.49	84	3.8	2.7	
	2002					4,242		3,740			4,380	3,875	4.71	86	11.5	3.9	
	2004					1,414		1,249			1,414	1,249	5.85	27	11.7	1.4	
	2006					5,090		3,947			5,090	3,947	3.51	61	22.5	4.7	
Blue Catfish	1998										1,600	509	6.14	9			
	1999					485		485			570	570	21.45	20	0.0	0.5	
	2000					784		755			941	856	6.68	17	9.0	0.6	
	2002					891		883			1,002	938	9.39	17	6.4	0.9	
	2004					147		104			293	156	6.55	3	46.8	0.2	
	2006					536		301			536	301	4.17	7	43.6	0.4	
TOTAL	1998		486,350	103,862							426,320	113,827		2,131			486,350
	1999		359,495	73,885		290,439		95,643		1,405	323,766	106,115		2,676			359,495
	2000		466,273	88,749	\$588,990	398,538		129,056		1,430	477,150	146,621		2,504			466,273
	2002		434,580	79,617	\$538,020	313,842		70,137		1,346	372,171	77,886		1,764			434,580
	2004		474,173	81,921	\$972,030	250,342		56,701		1,248	340,824	73,869		1,399			474,173
	2006		405,366	74,377	\$852,750	312,825		65,001		1,314	400,720	83,853		1,611			405,366

## Figures

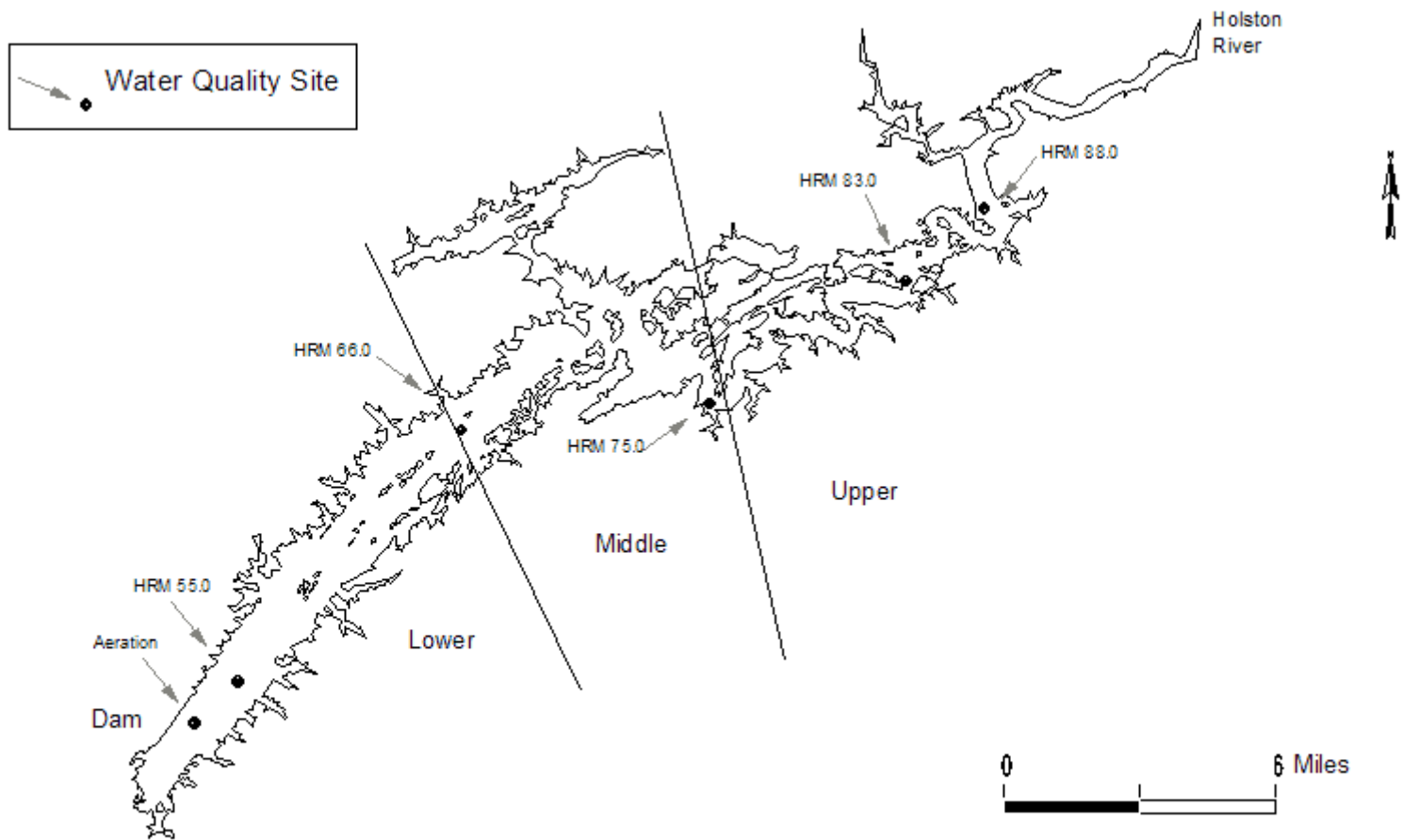


Figure 1. Water quality sites and the upper, middle, and lower section boundaries of Cherokee Reservoir in 2007.

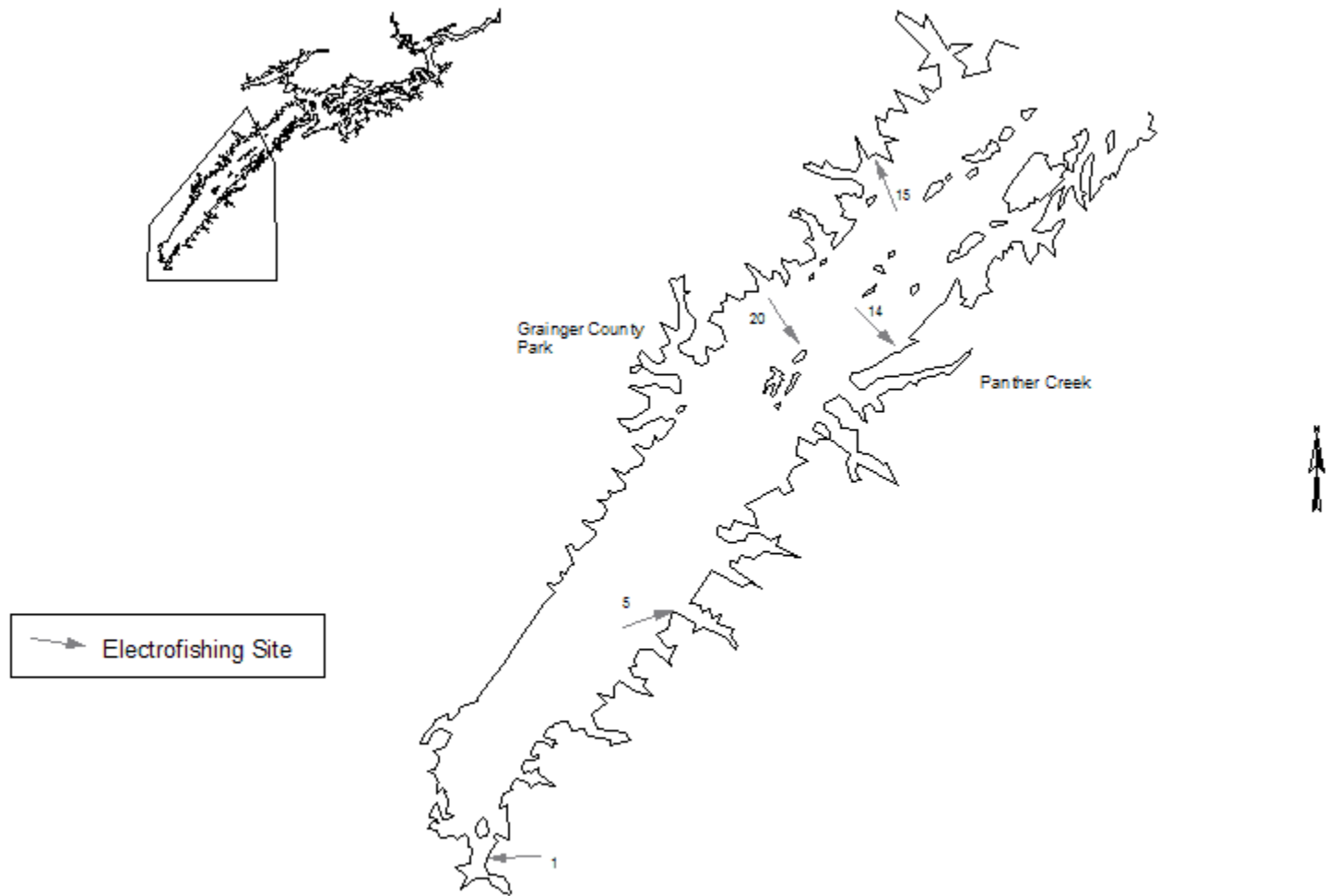


Figure 2. Electrofishing sites in the lower section of Cherokee Reservoir in 2007

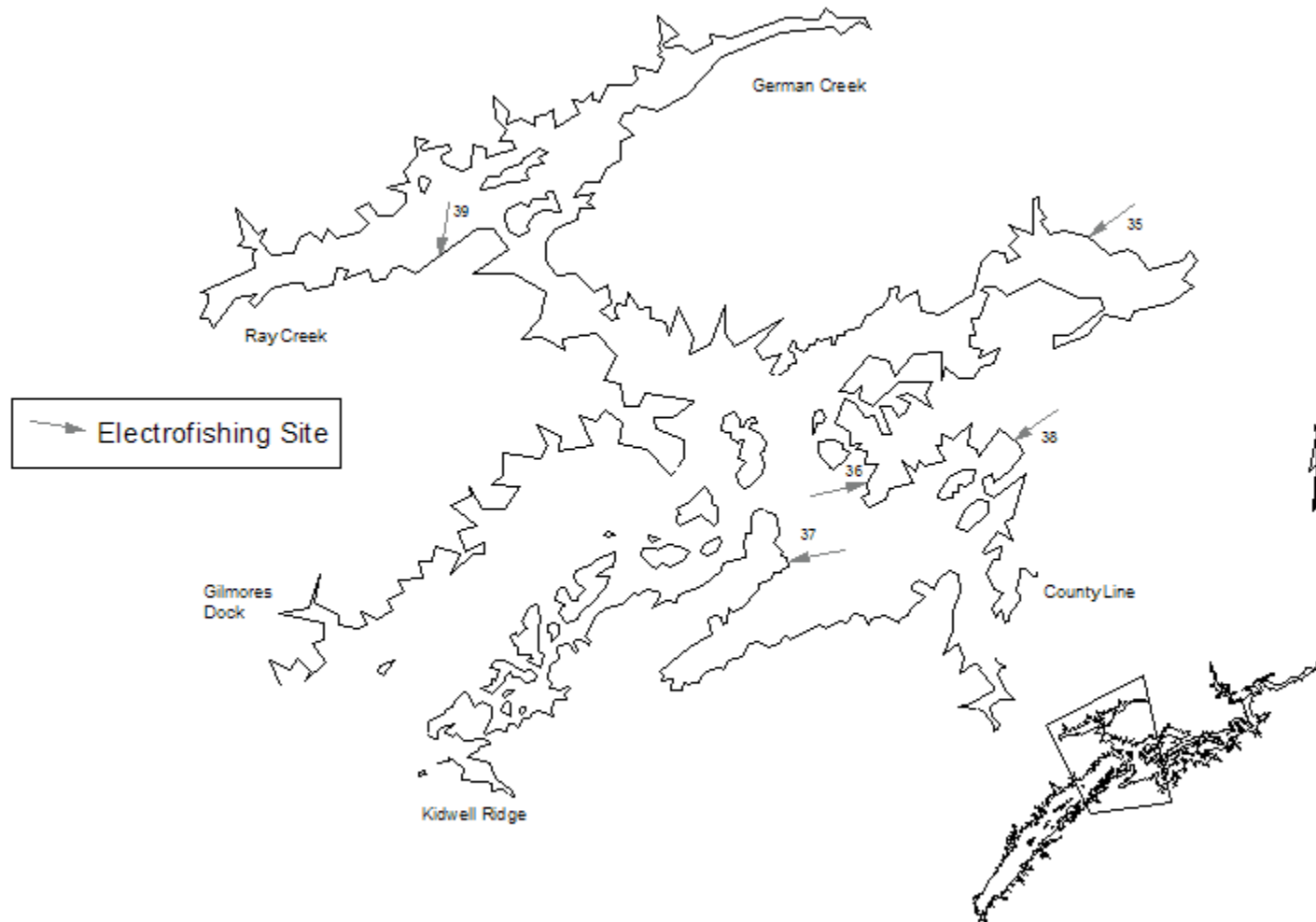


Figure 3. Electrofishing sites in the middle section of Cherokee Reservoir in 2007.

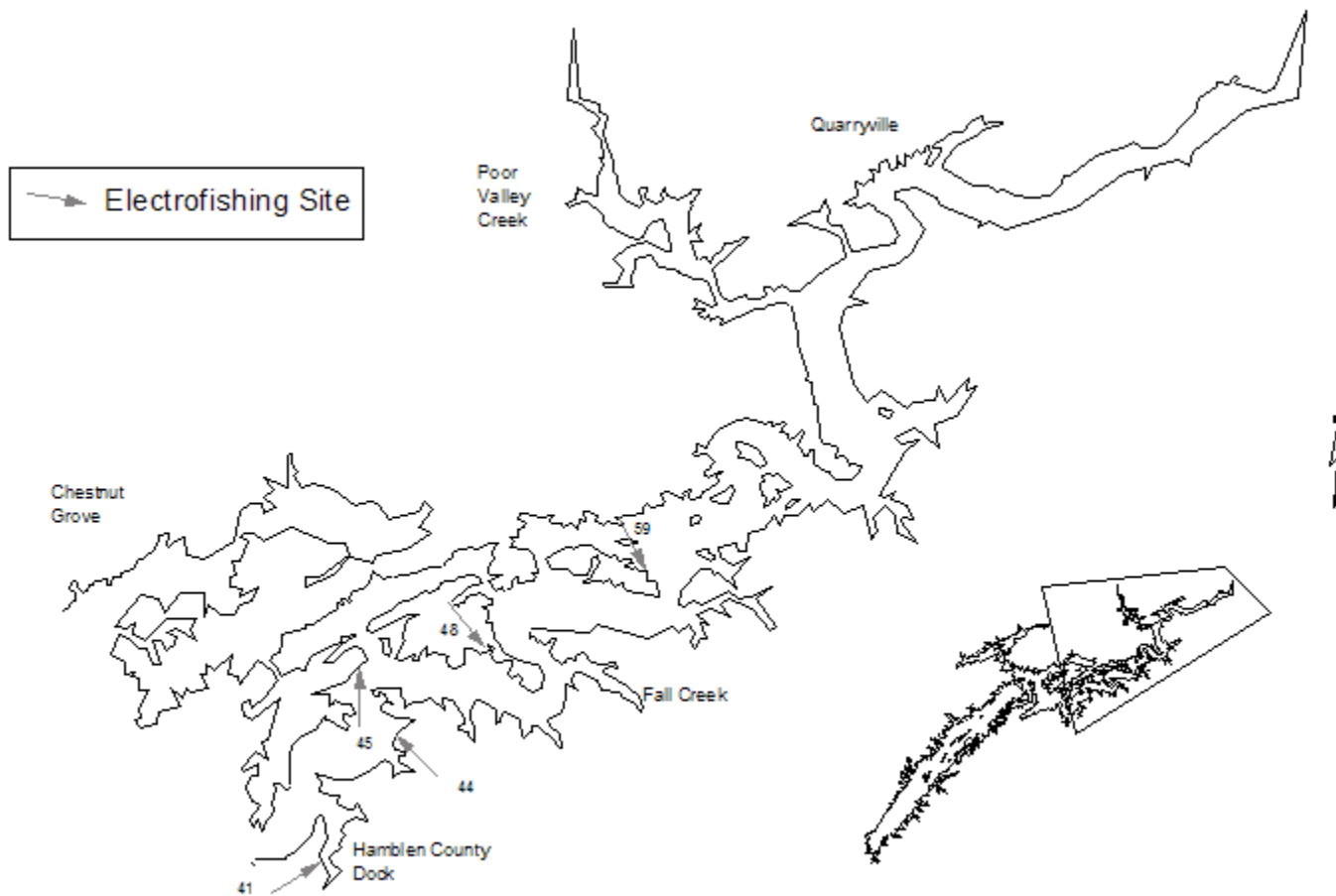


Figure 4. Electrofishing sites in the upper section of Cherokee Reservoir in 2007.

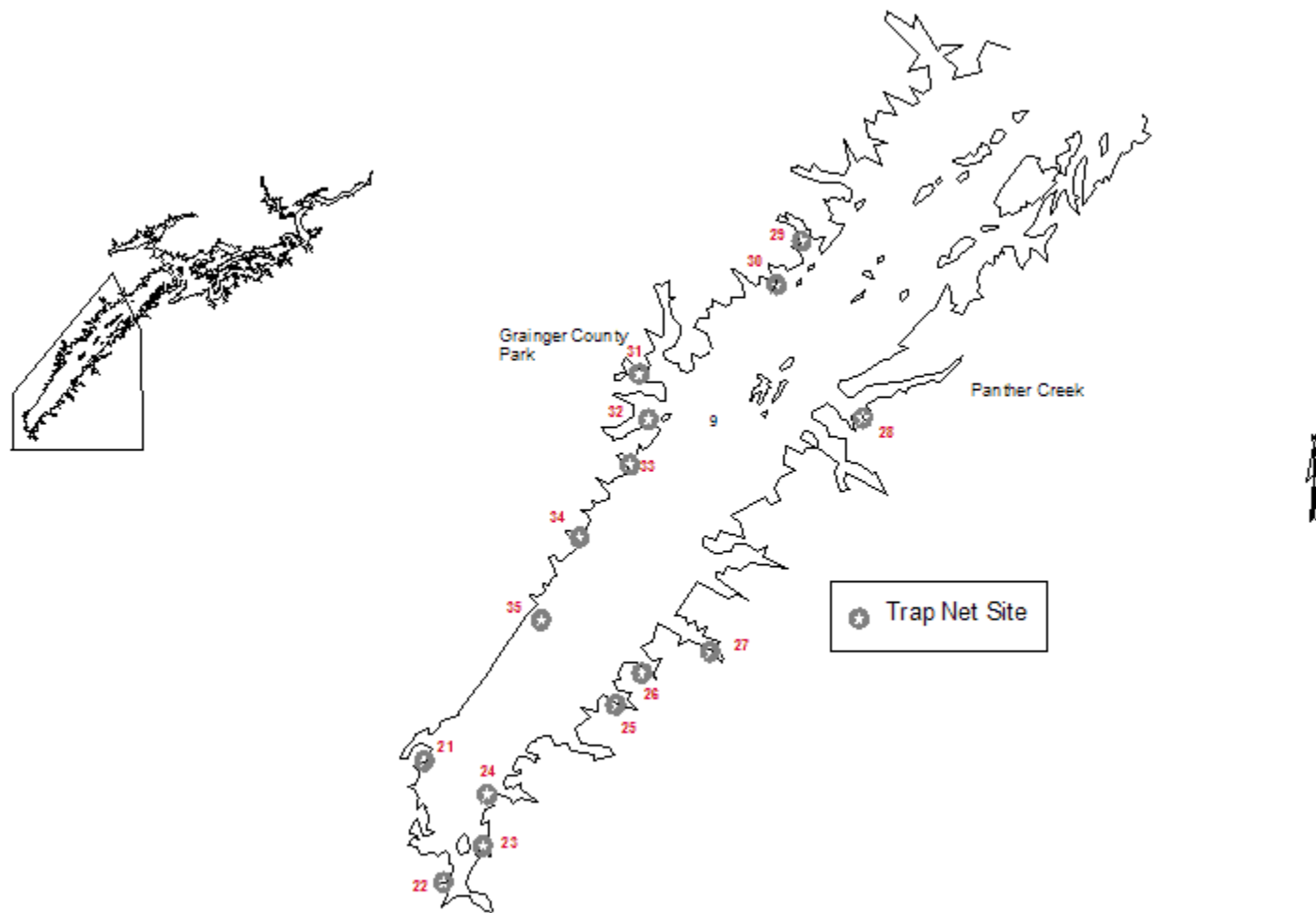


Figure 5. Trap net sites in the lower section of Cherokee Reservoir in 2007.

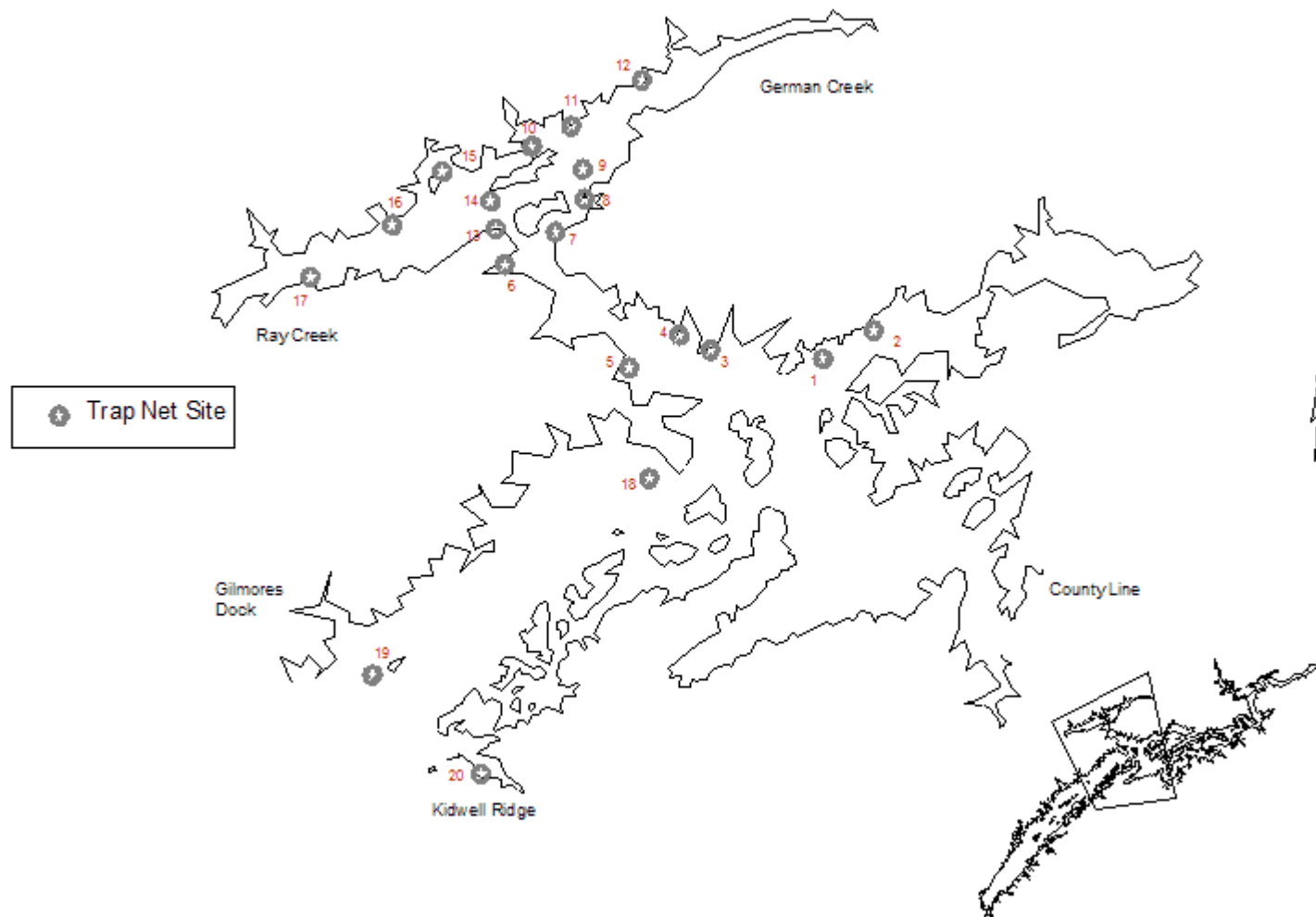


Figure 6. Trap net sites in the middle section of Cherokee Reservoir in 2007.

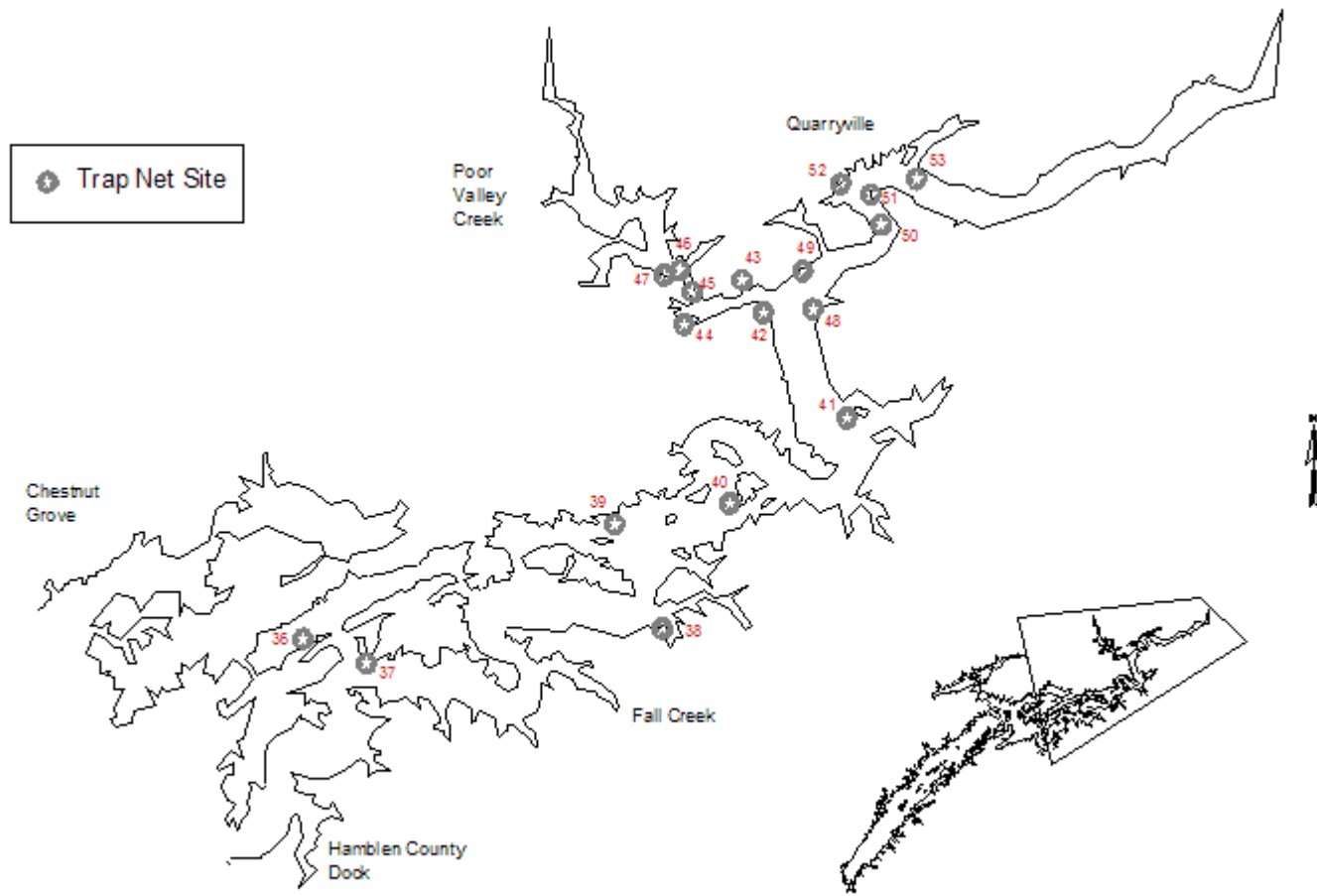


Figure 7. Trap net sites in the upper section of Cherokee Reservoir in 2007.

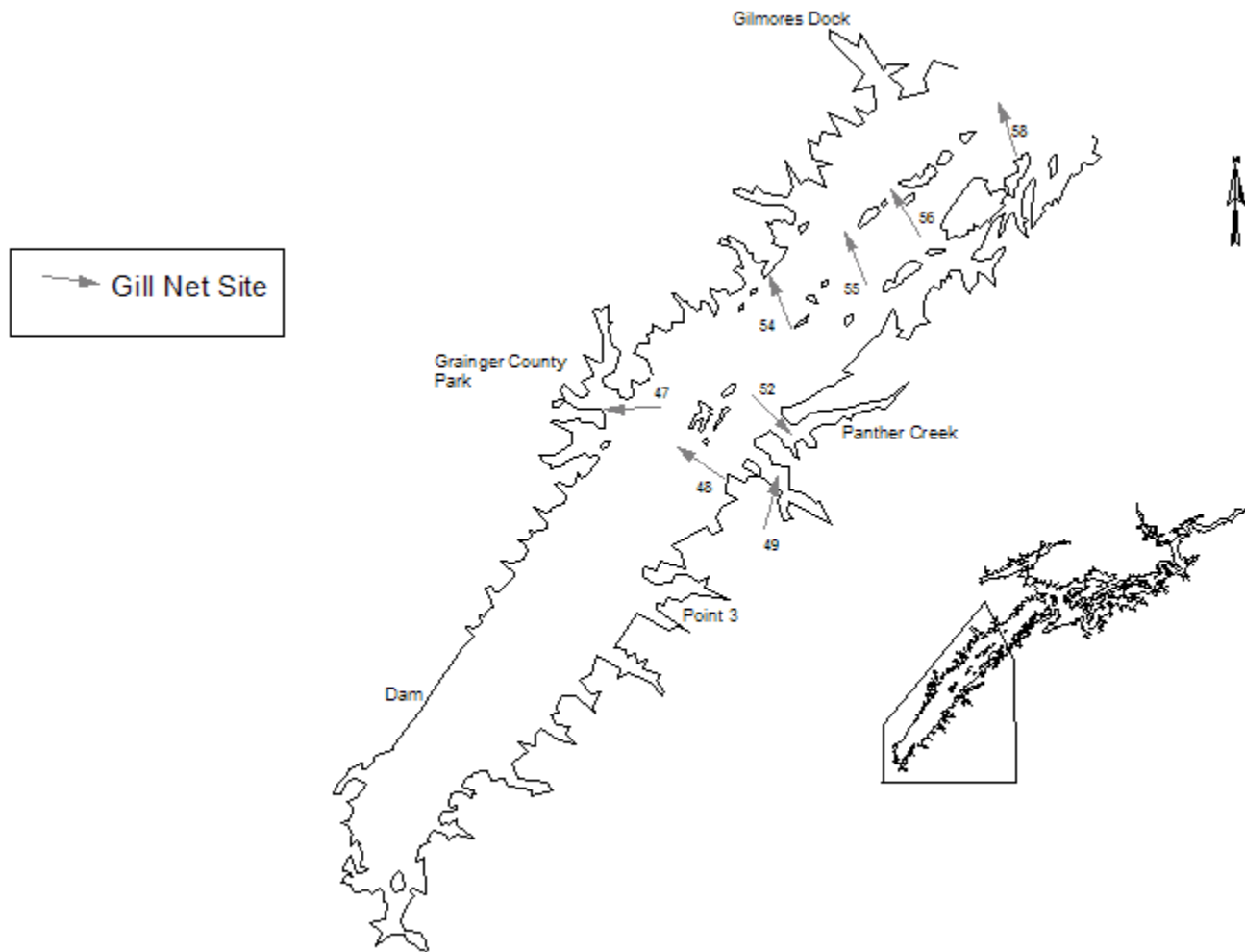


Figure 8. Summer shad gill net sites in the lower section of Cherokee Reservoir in 2007.

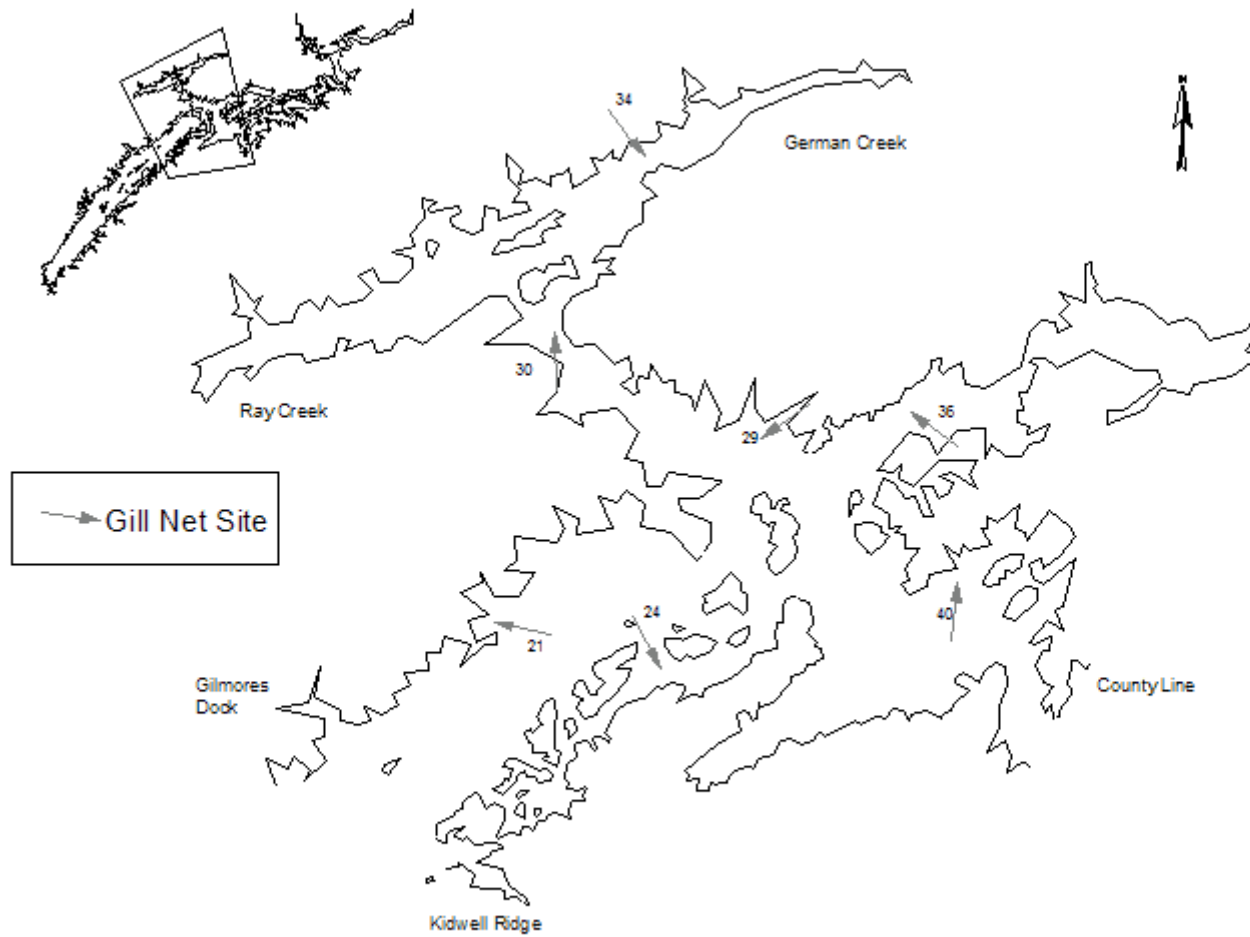


Figure 9. Summer shad gill net sites in the middle section of Cherokee Reservoir in 2007.

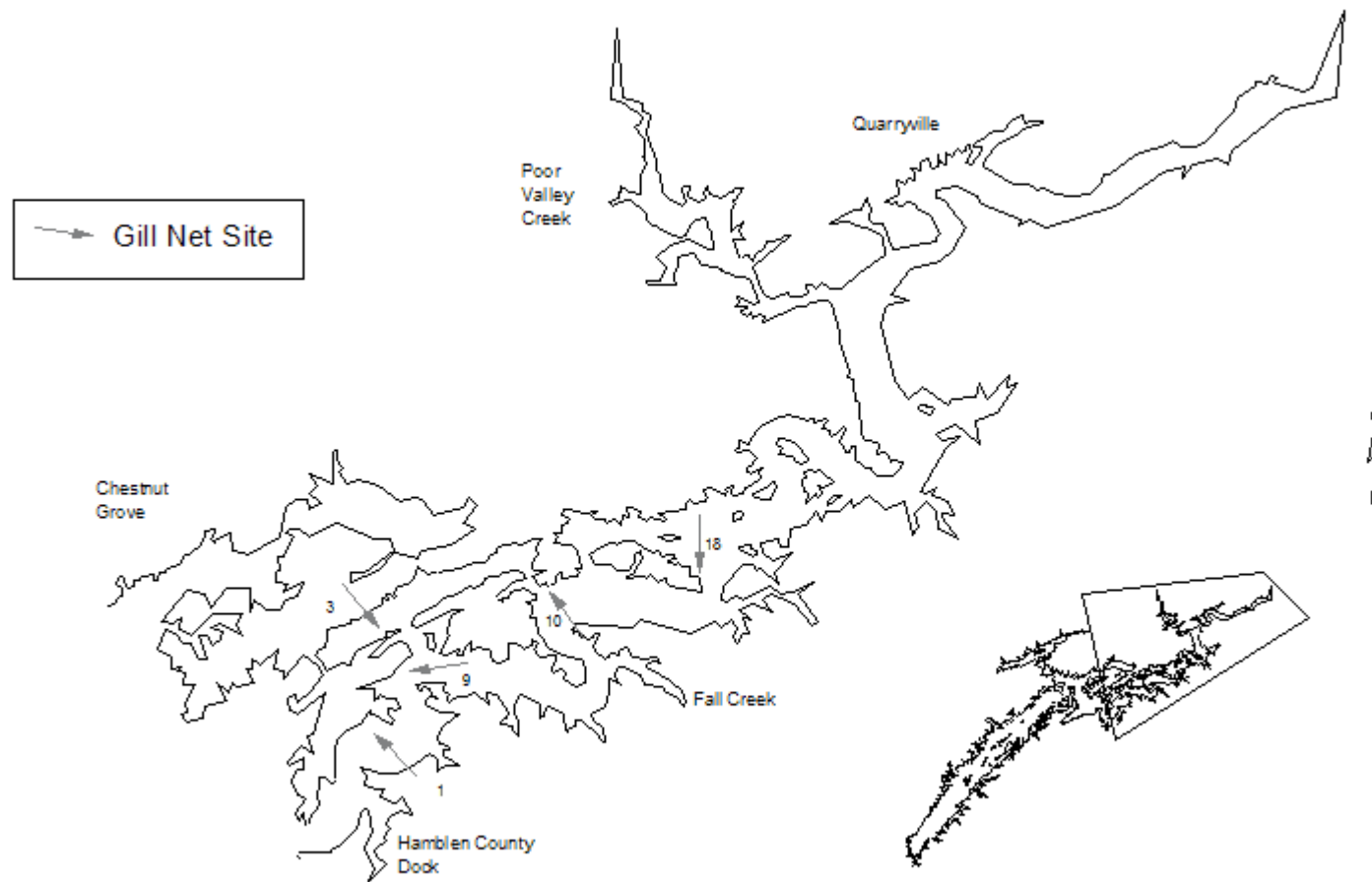


Figure 10. Summer shad gill netting sites in the upper section of Cherokee Reservoir in 2007.

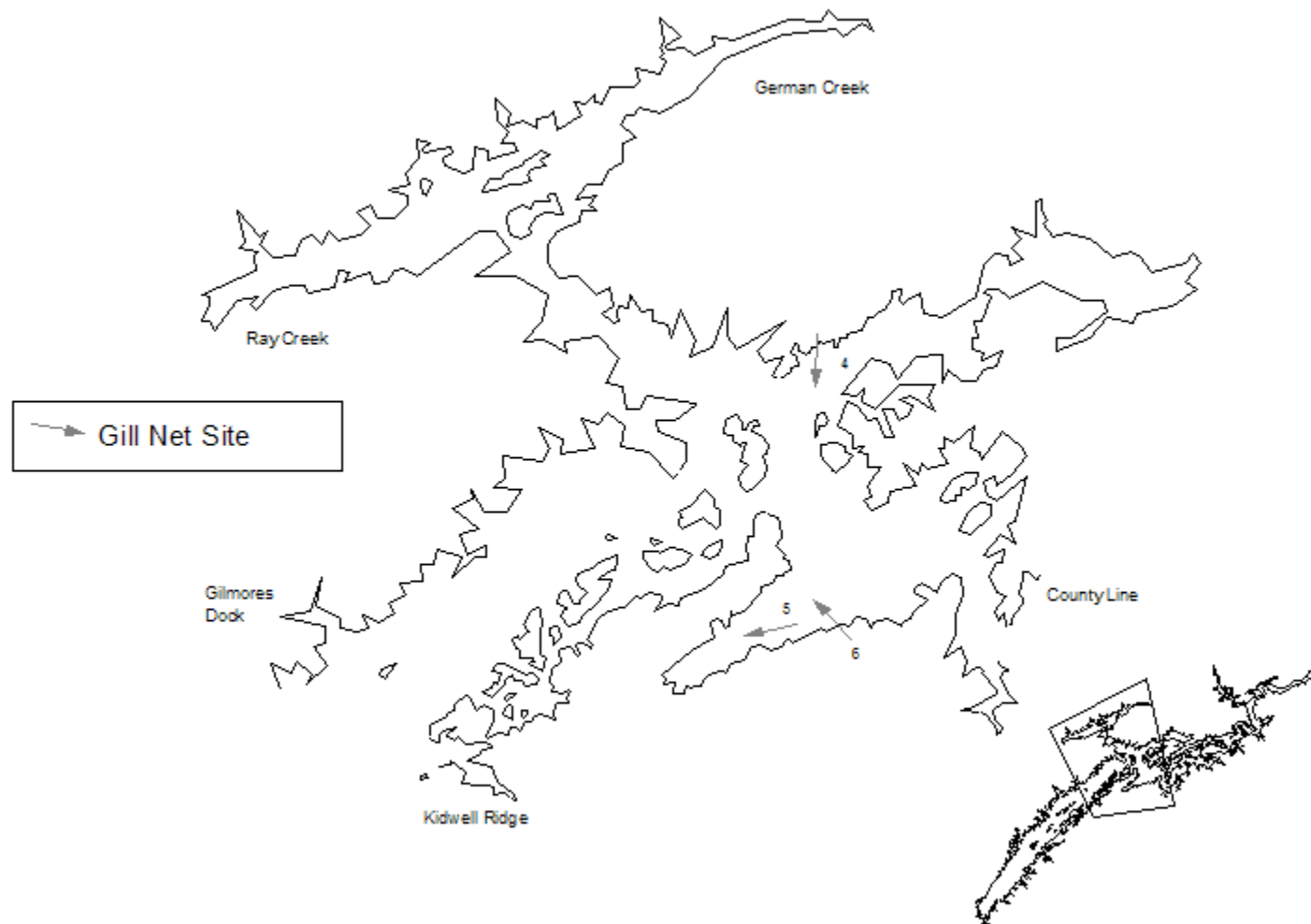


Figure 11. Winter gill net sites in the middle section of Cherokee Reservoir in 2007.

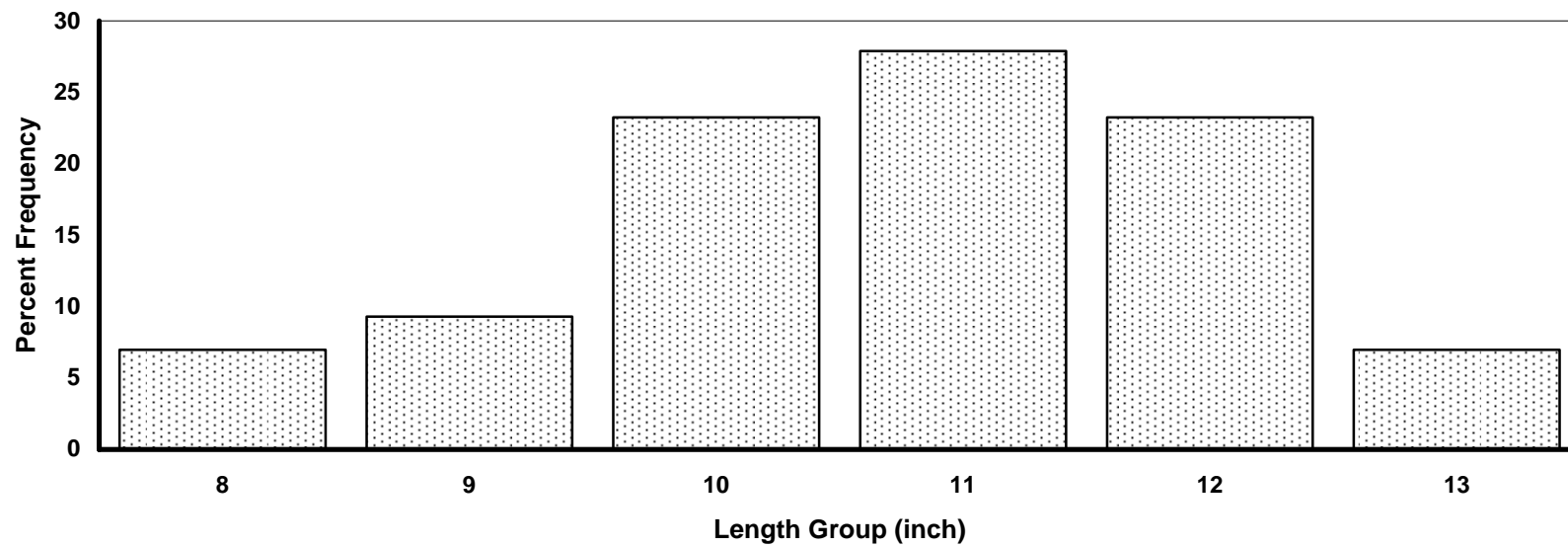


Figure 12. Cherokee Reservoir black crappie length frequency by percent for the 2007 electrofishing sample (n=43).

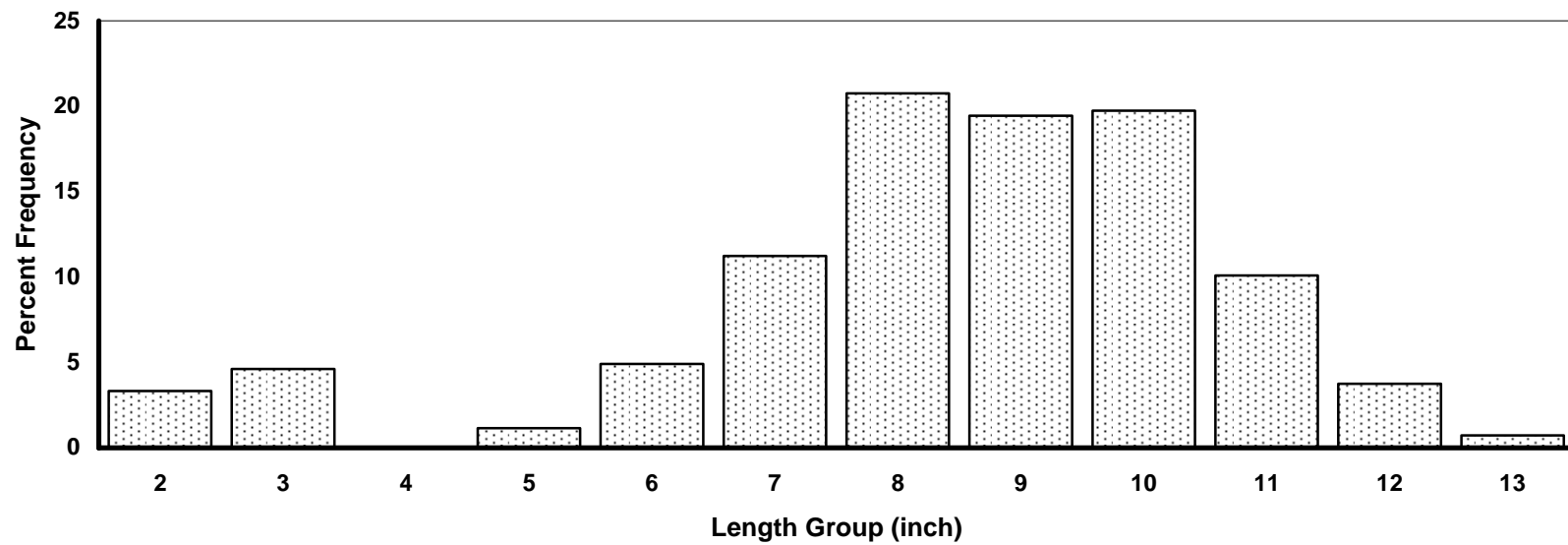


Figure 13. Cherokee Reservoir black crappie length frequency by percent for the 2007 trap net sample (n=694).

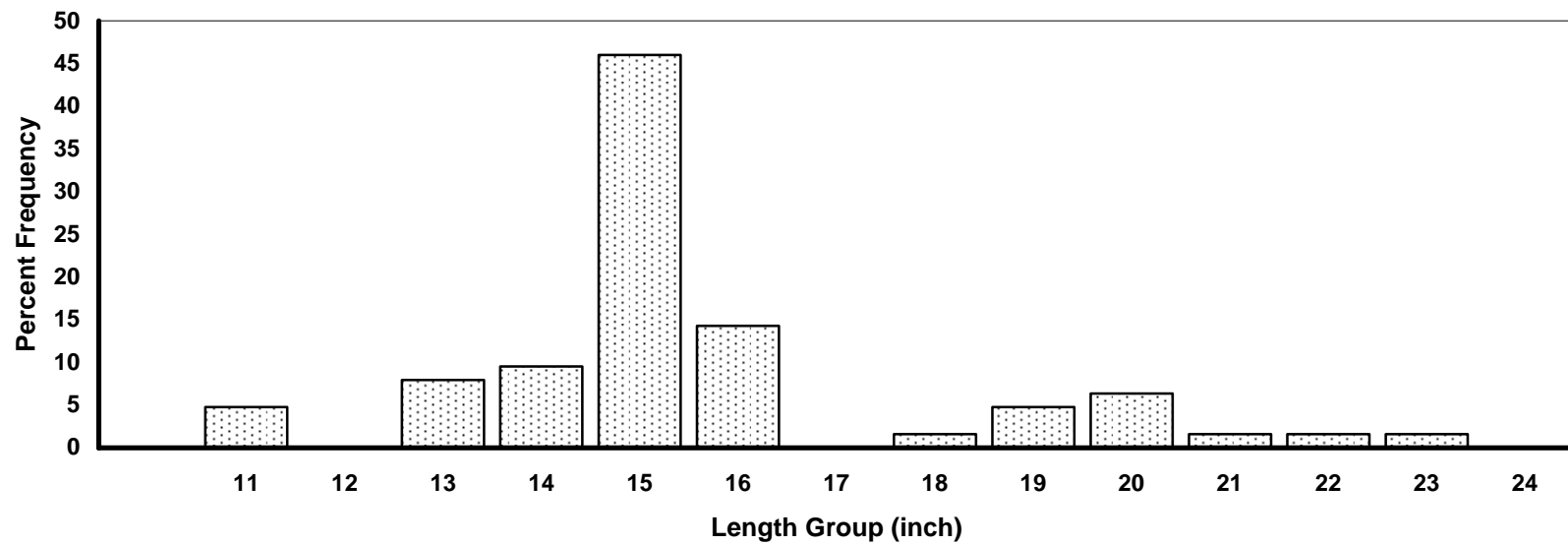


Figure 14. Cherokee Reservoir hybrid striped bass length frequency by percent for 2007 shad gill net sample (n=63).

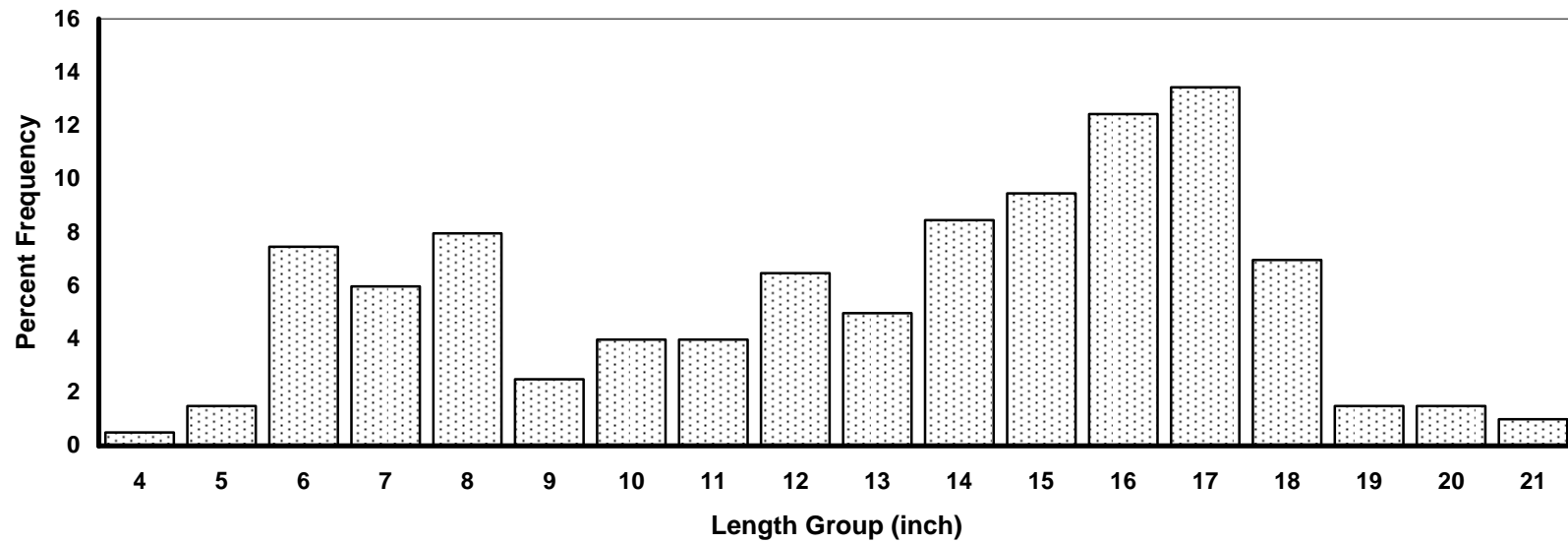


Figure 15. Cherokee Reservoir largemouth bass length frequency by percent for the 2007 electrofishing sample (n=201).

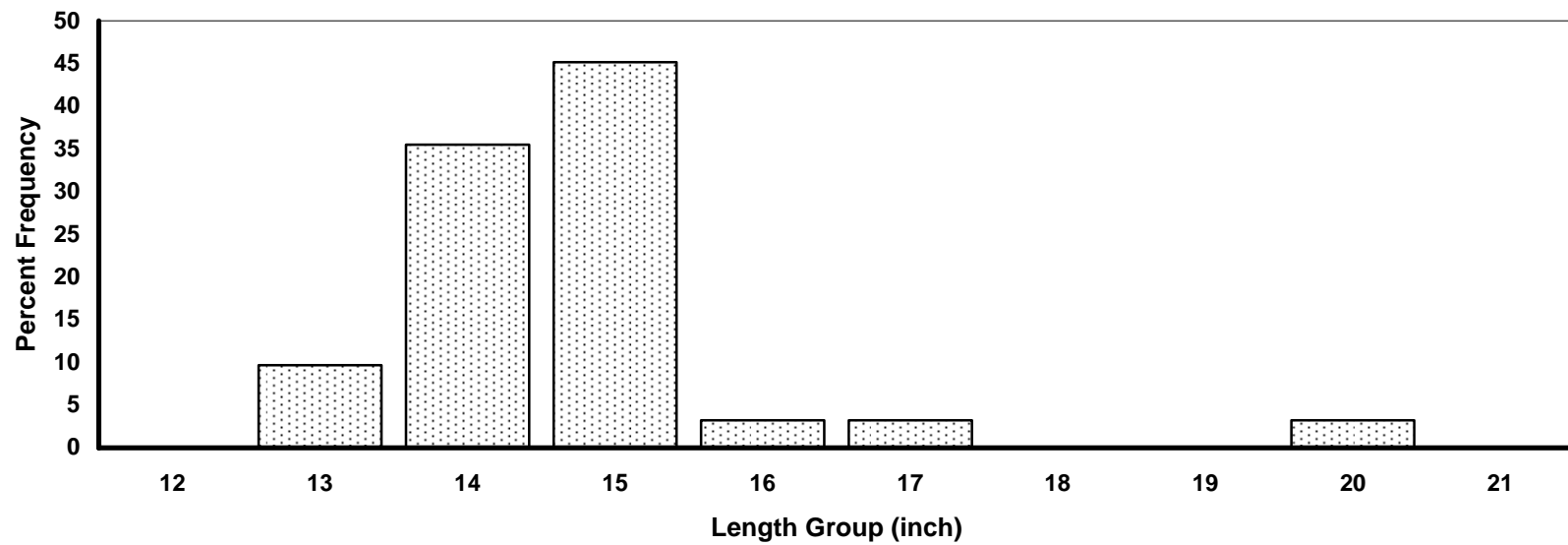


Figure 16. Cherokee Reservoir striped bass length frequency by percent for 2007 shad gill net sample (n=31).

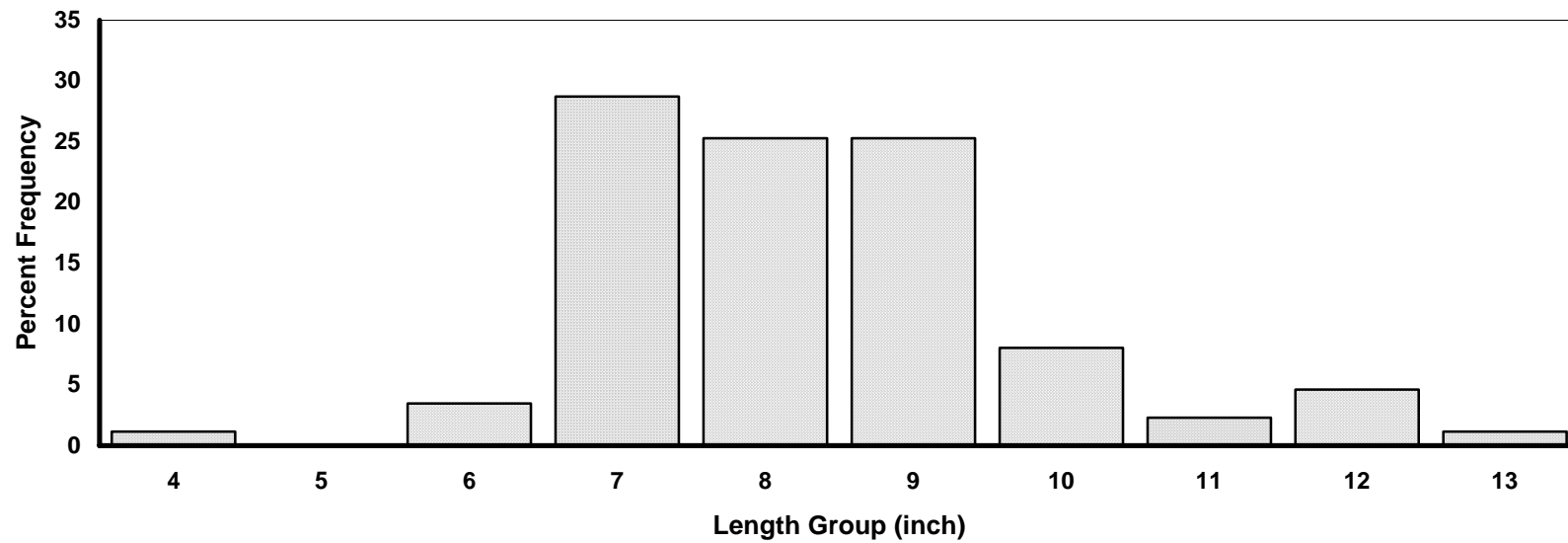


Figure 17. Cherokee Reservoir gizzard shad length frequency by percent for 2007 shad gillnetting sample (n=87).

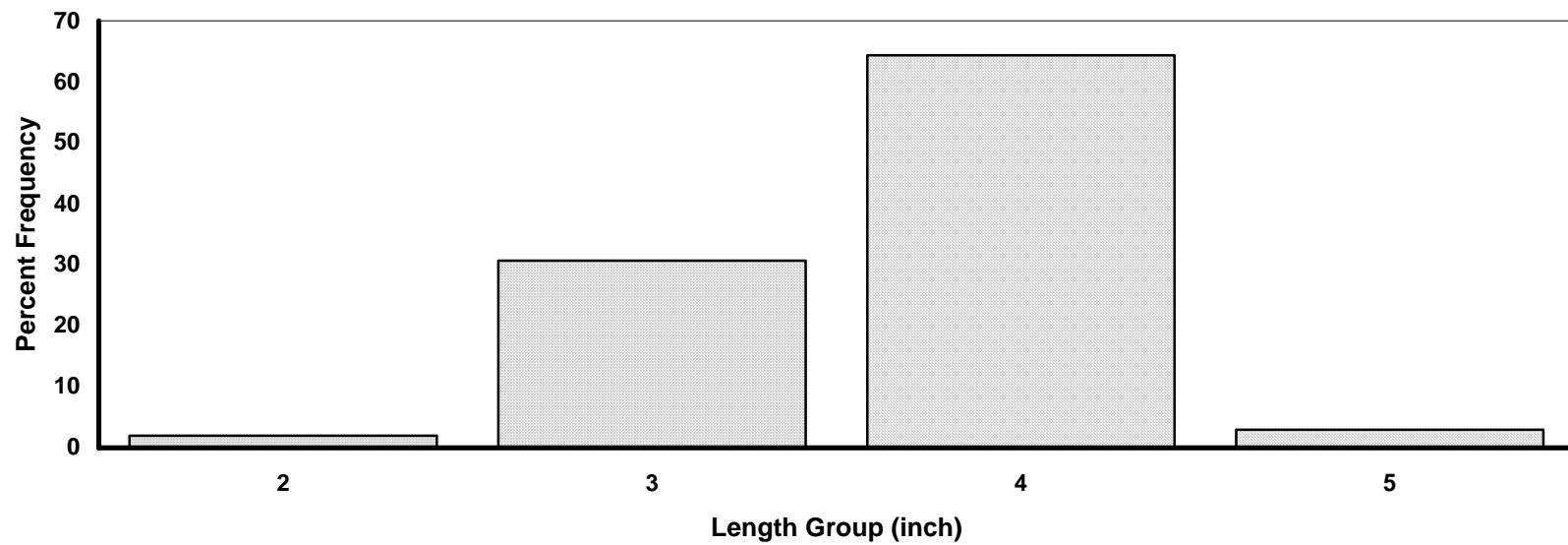


Figure 18. Cherokee Reservoir threadfin shad length frequency by percent for 2007 shad gillnetting sample (n=101).

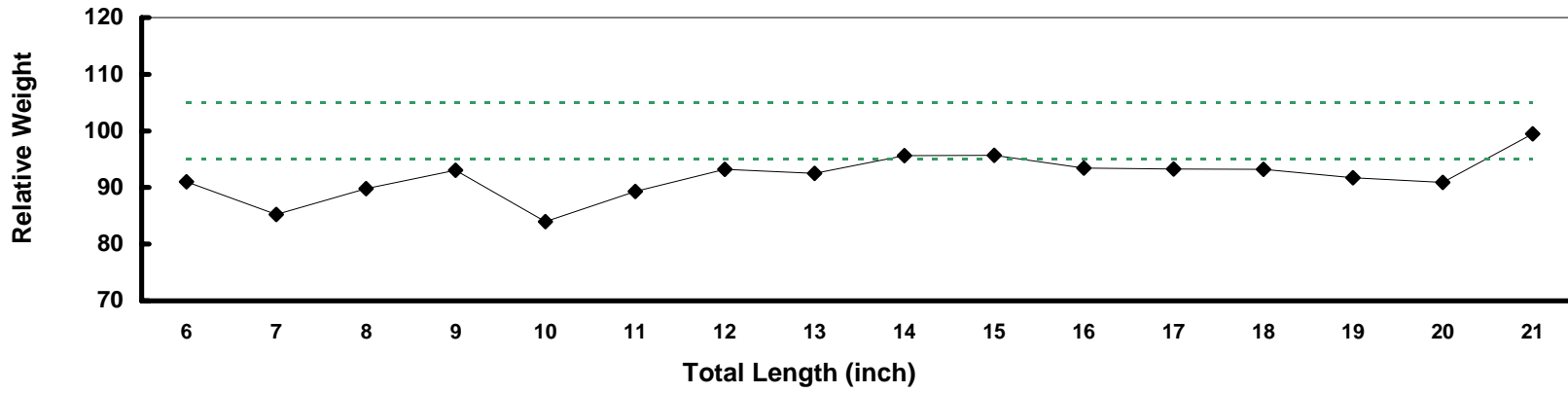


Figure 19. Cherokee Reservoir largemouth bass mean relative weight values from the 2007 electrofishing sample (n=178).

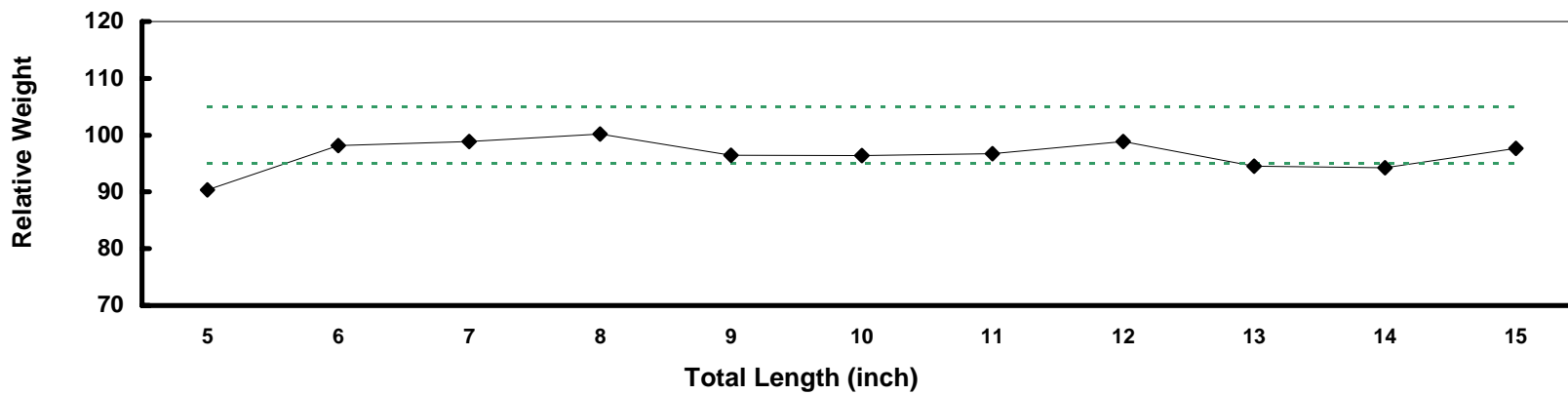


Figure 20. Cherokee Reservoir black crappie mean relative weight values from the 2007 trap net sample (n=636).

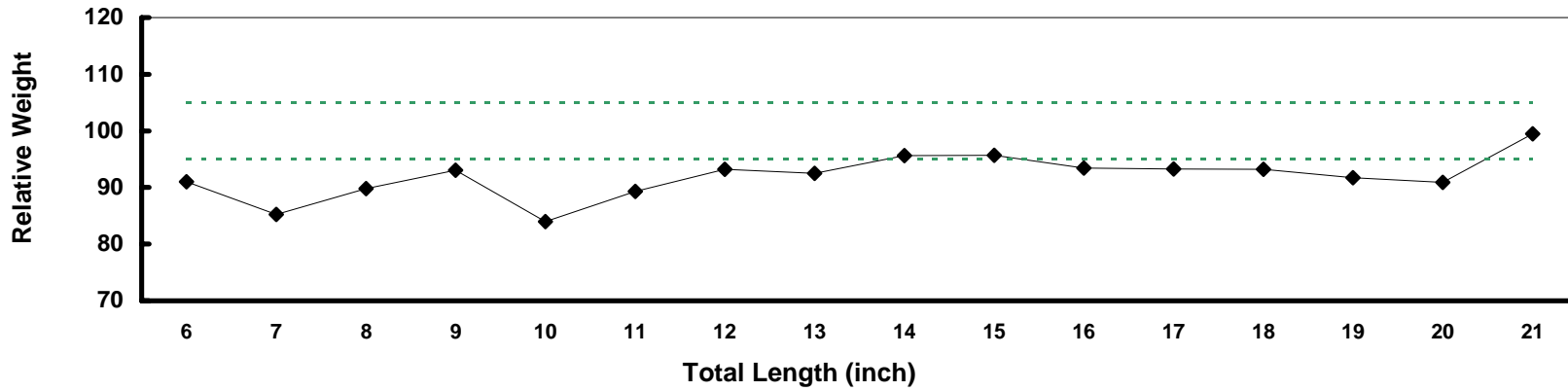


Figure 21. Cherokee Reservoir largemouth bass mean relative weight values from the 2007 electrofishing sample (n=178).

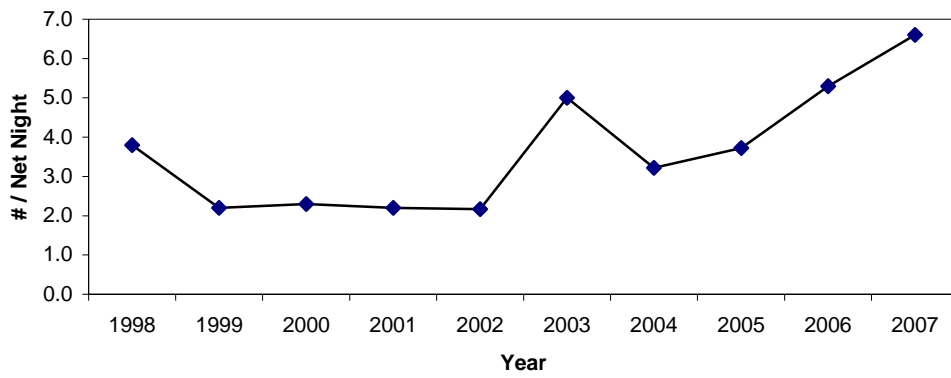


Figure 22. Cherokee Reservoir black crappie trap netting catch rates from 1998 to 2007.

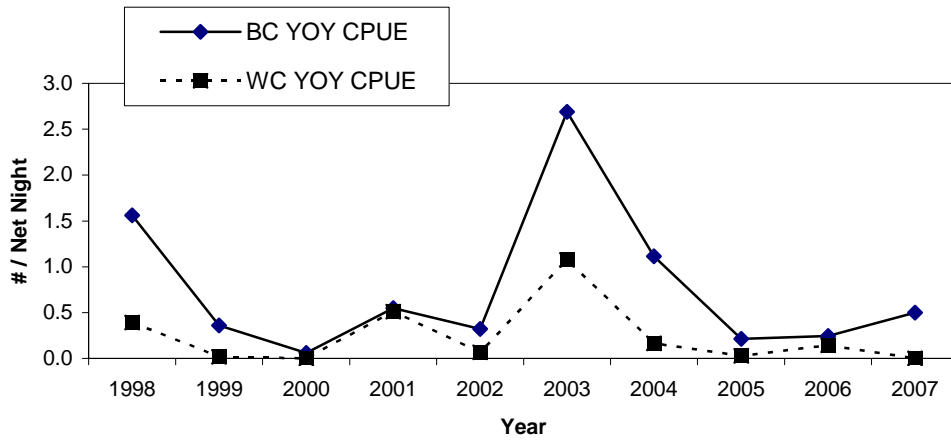


Figure 23. Cherokee Reservoir YOY crappie trap netting catch rates from 1998 to 2007.

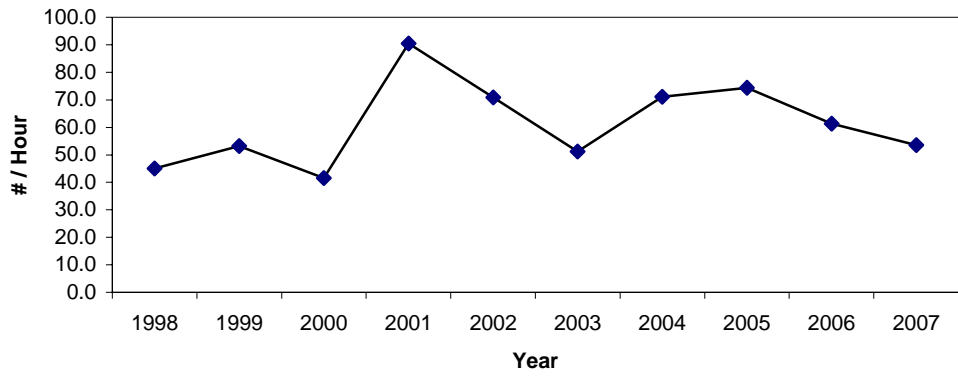


Figure 24. Cherokee Reservoir largemouth bass electrofishing catch rates from 1998 to 2007.

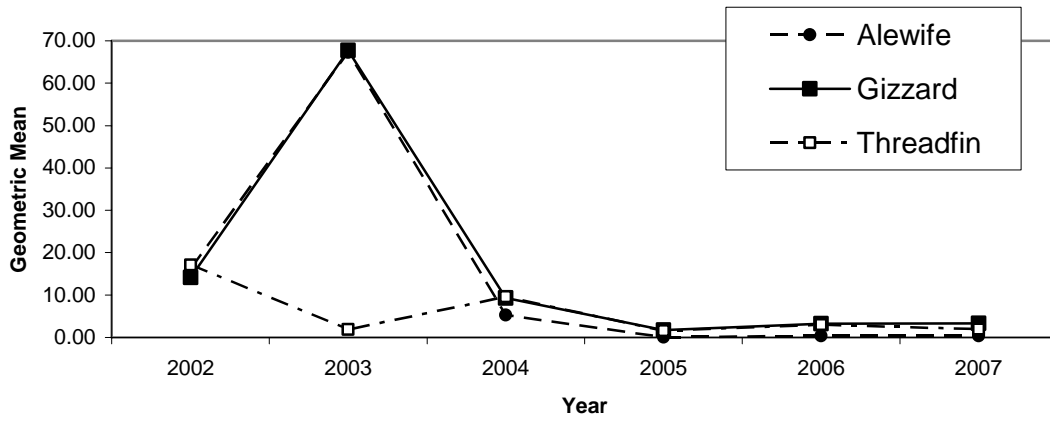


Figure 25. Catch rate of shad by summer gill netting in Cherokee Reservoir from 2002 to 2007

Figure 26. DO - Cherokee - RM 55 - July 3, 2007

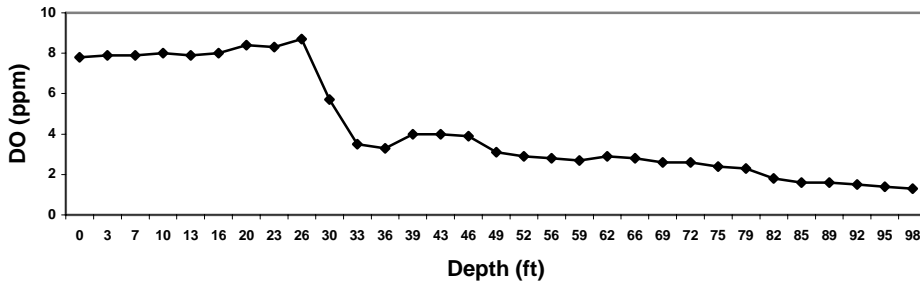


Figure 27. Temp - Cherokee - RM 55 - July 3, 2007

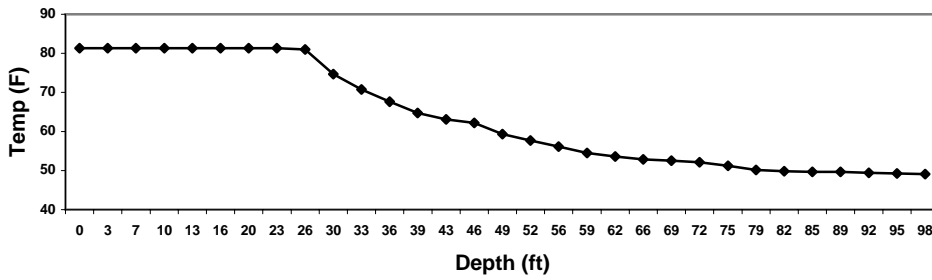


Figure 28. DO - Cherokee - RM 66 - July 3, 2007

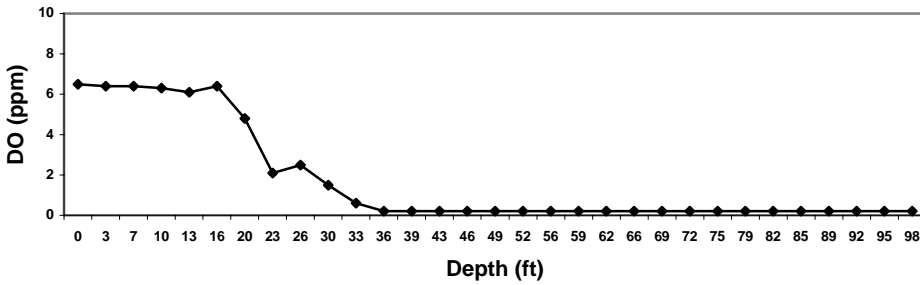


Figure 29. Temp - Cherokee - RM 66 - July 3, 2007

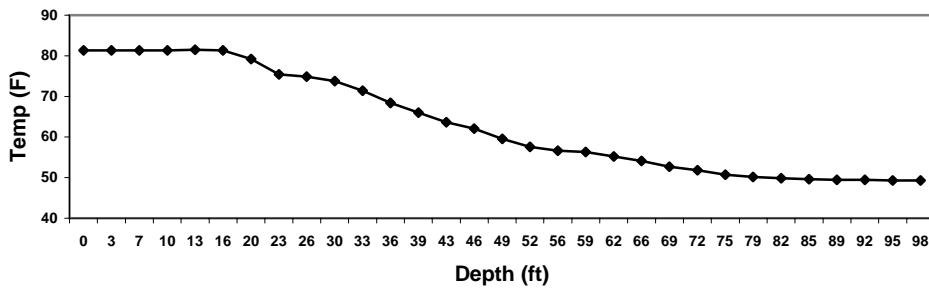


Figure 30. DO - Cherokee - RM 75 - July 3, 2007

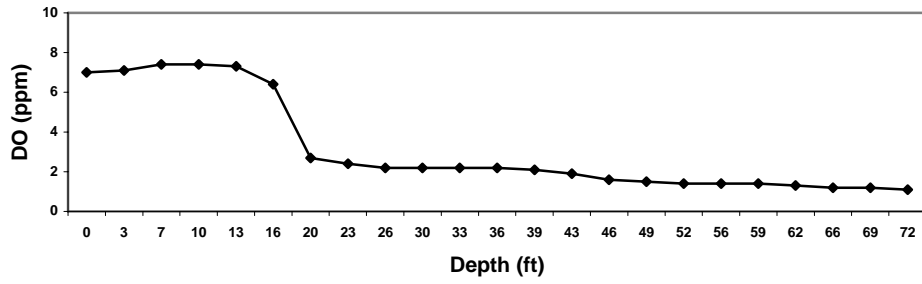


Figure 31. Temp - Cherokee - RM 75 - July 3, 2007

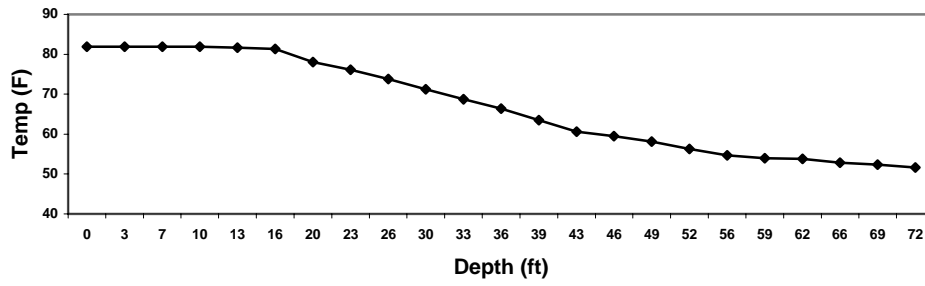


Figure 32. DO - Cherokee - RM 83 - July 3, 2007

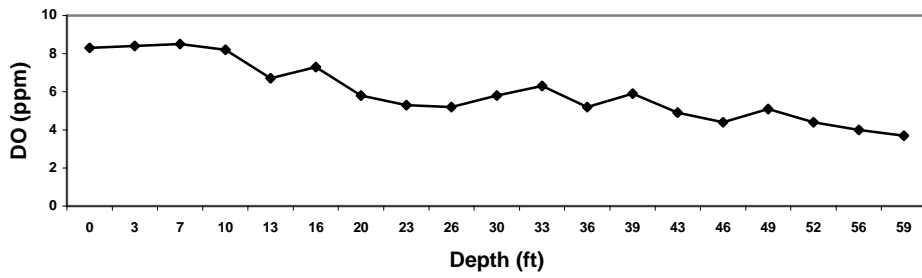


Figure 33. Temp - Cherokee - RM 83 - July 3, 2007

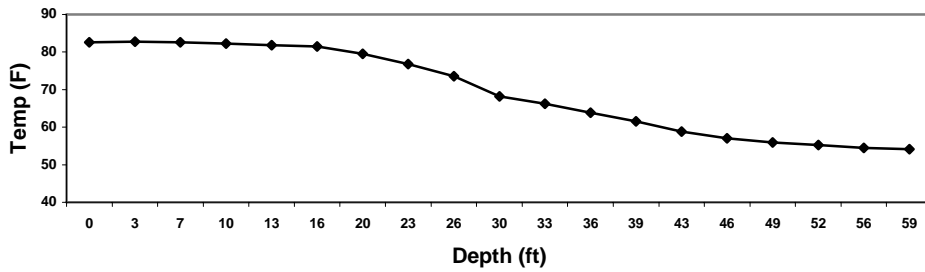


Figure 34. DO - Cherokee - RM 55 - August 2, 2007

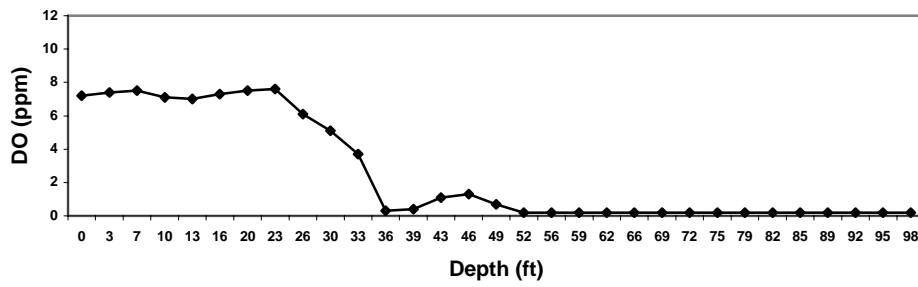


Figure 35. Temp - Cherokee - RM 55 - August 2, 2007

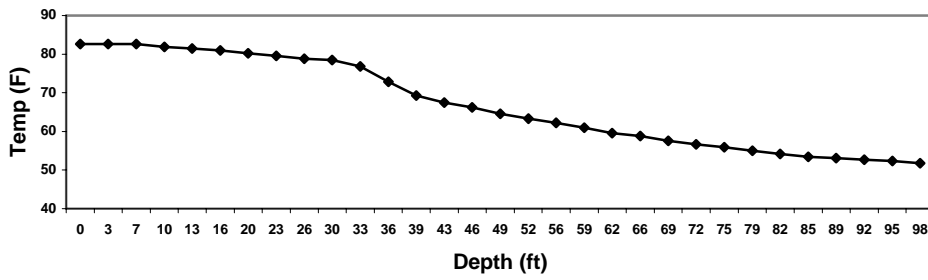


Figure 36. DO - Cherokee - RM 66 - August 2, 2007

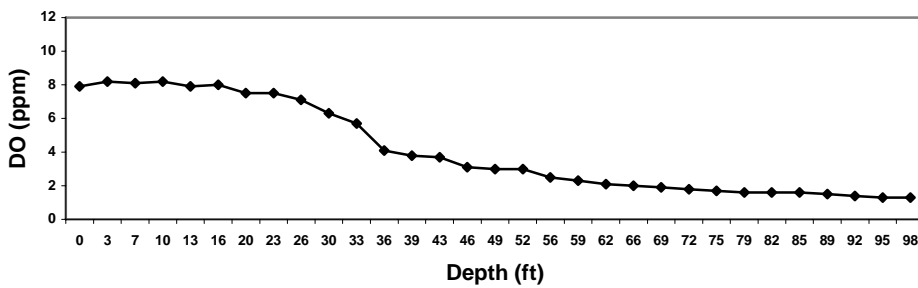


Figure 37. Temp - Cherokee - RM 66 - August 2, 2007

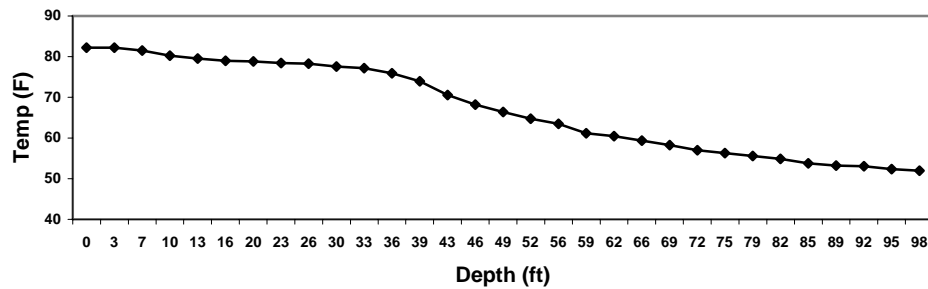


Figure 38. DO - Cherokee - RM 75 - August 2, 2007

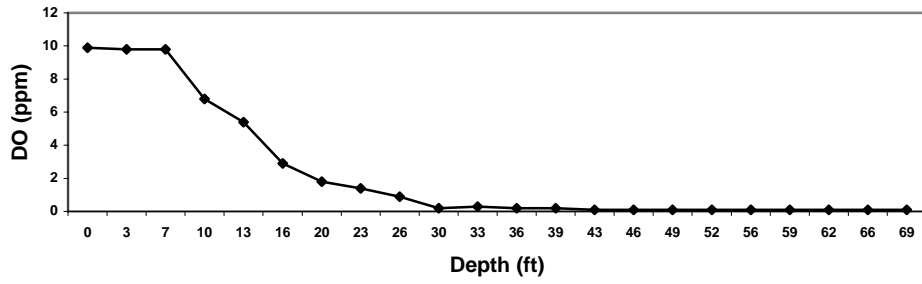


Figure 39. Temp - Cherokee - RM 75 - August 2, 2007

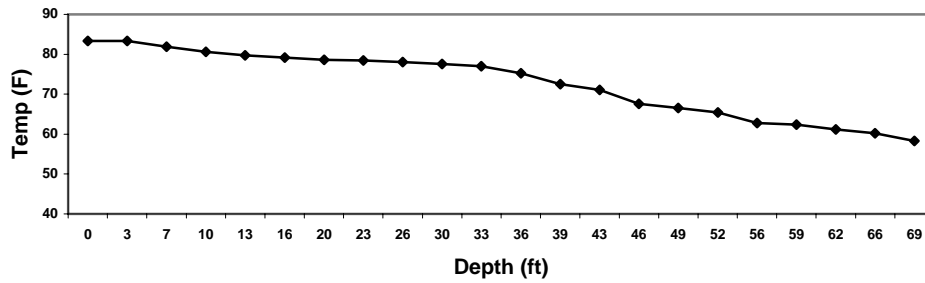


Figure 40. DO - Cherokee - RM 83 - August 2, 2007

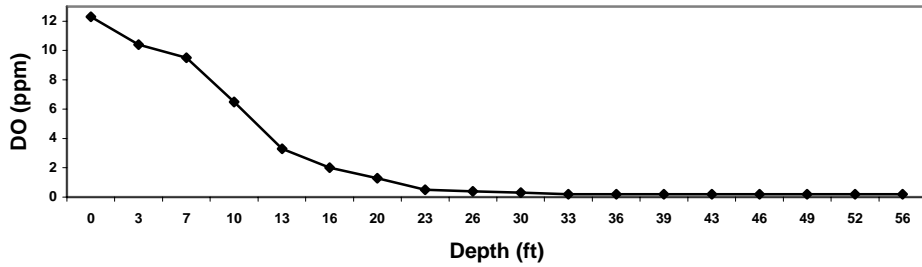


Figure 41. Temp - Cherokee - RM 83 - August 2, 2007

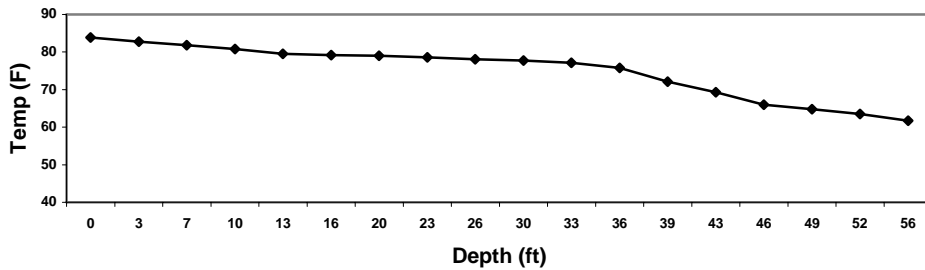


Figure 42. DO - Cherokee - RM 55 - September 7, 2007

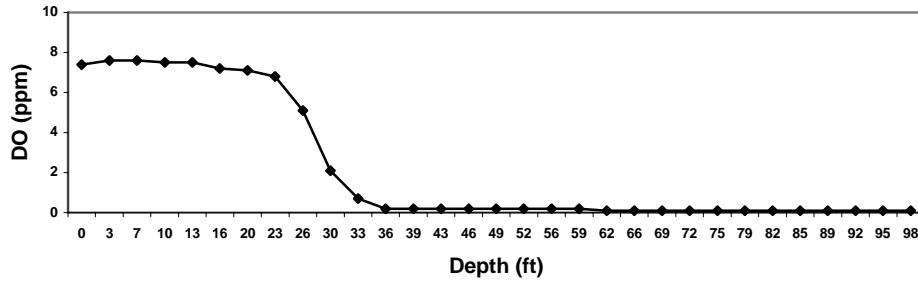


Figure 43. Temp - Cherokee - RM 55 - September 7, 2007

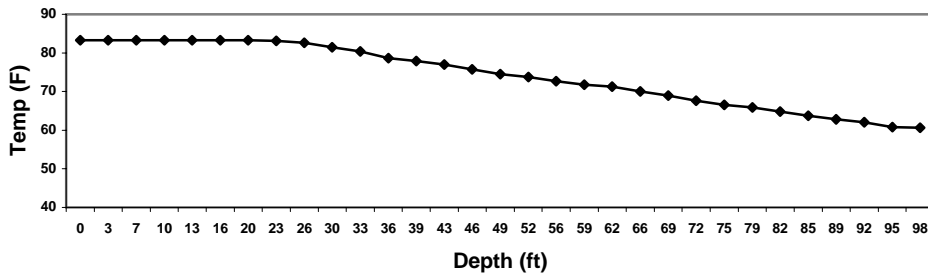


Figure 44. DO - Cherokee - RM 66 - September 7, 2007

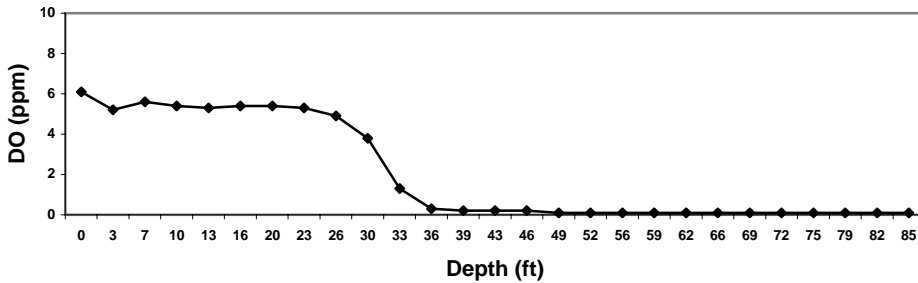


Figure 45. Temp - Cherokee - RM 66 - September 7, 2007

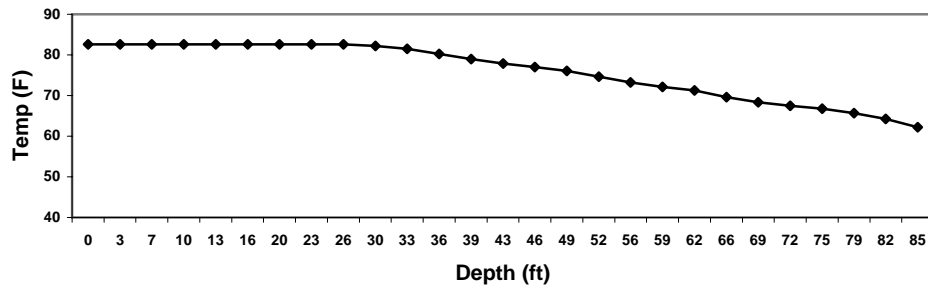


Figure 46. DO - Cherokee - RM 75 - September 7, 2007

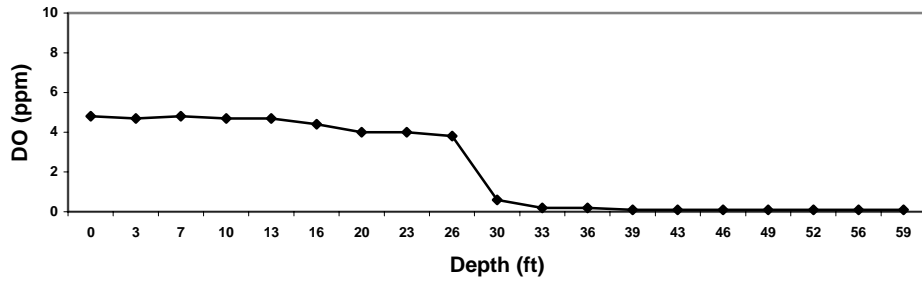


Figure 47. Temp - Cherokee - RM 75 - September 7, 2007

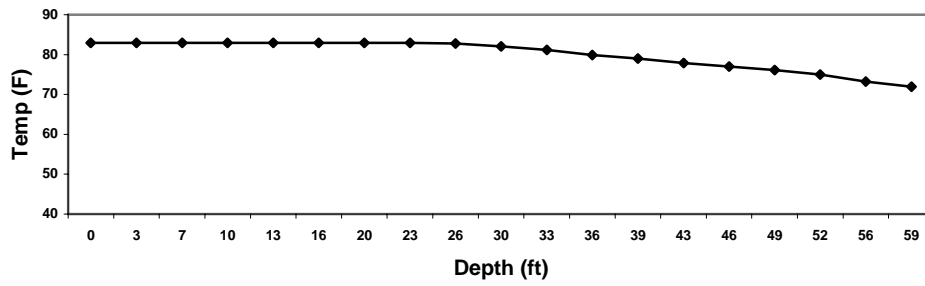


Figure 48. DO - Cherokee - RM 83 - September 7, 2007

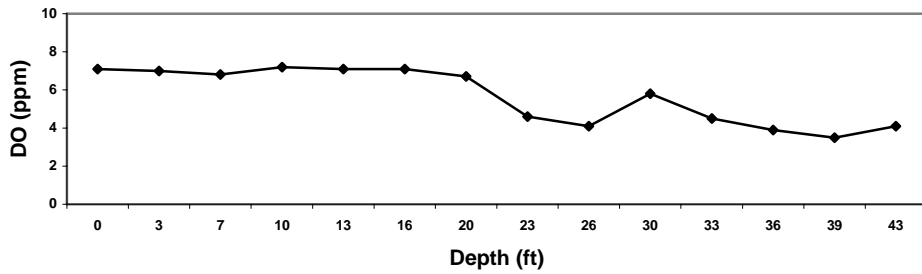
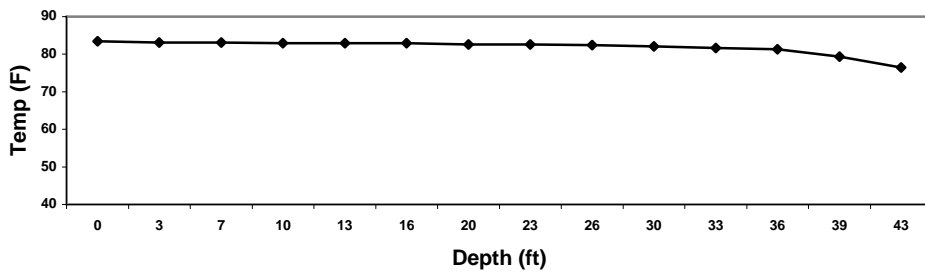


Figure 49. Temp - Cherokee - RM 83 - September 7, 2007



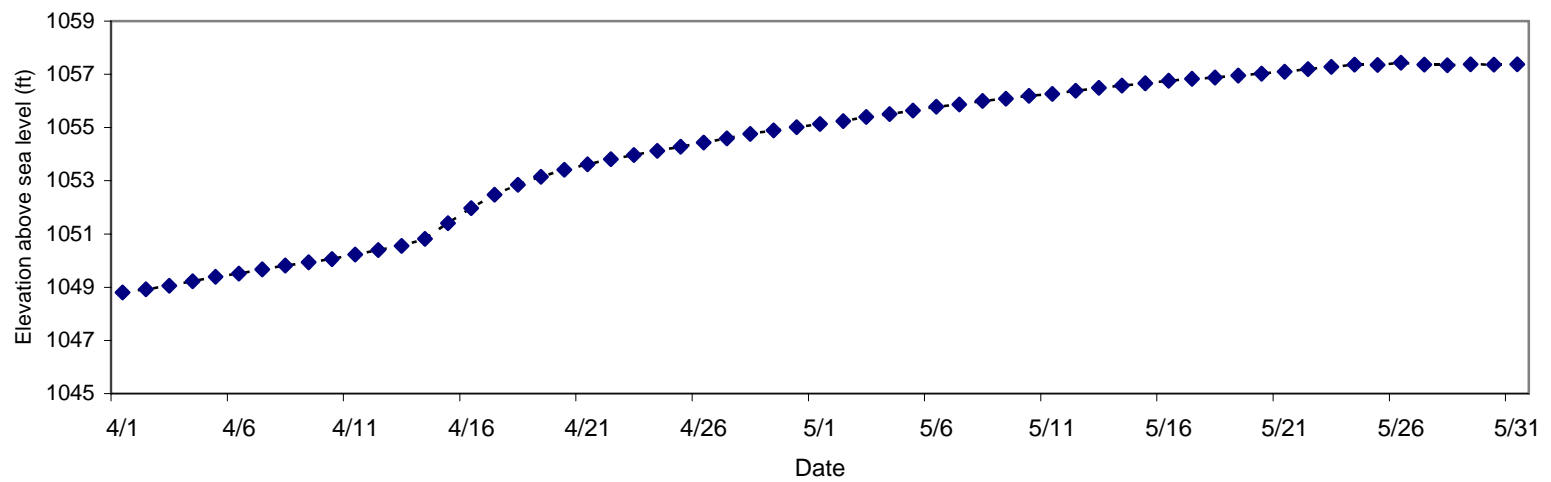


Figure 50. April and May water levels in Cherokee Reservoir in 2007 (TVA data).

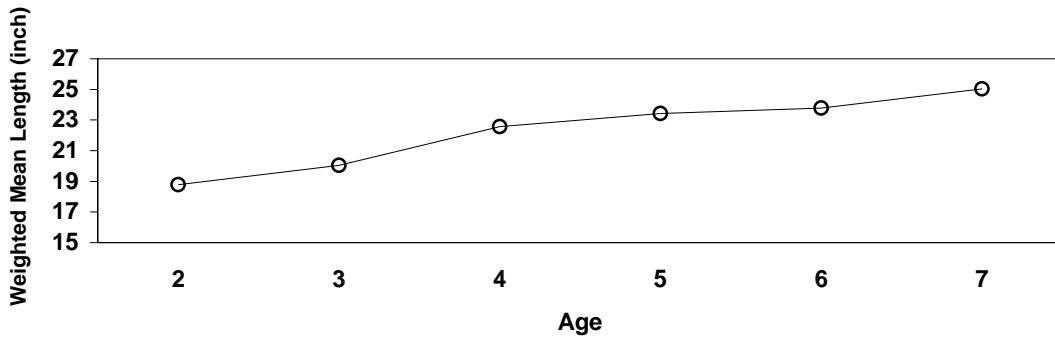


Figure 51. Weighted mean length at age of hybrid striped bass from Cherokee Reservoir's 2007 winter gill net sample.

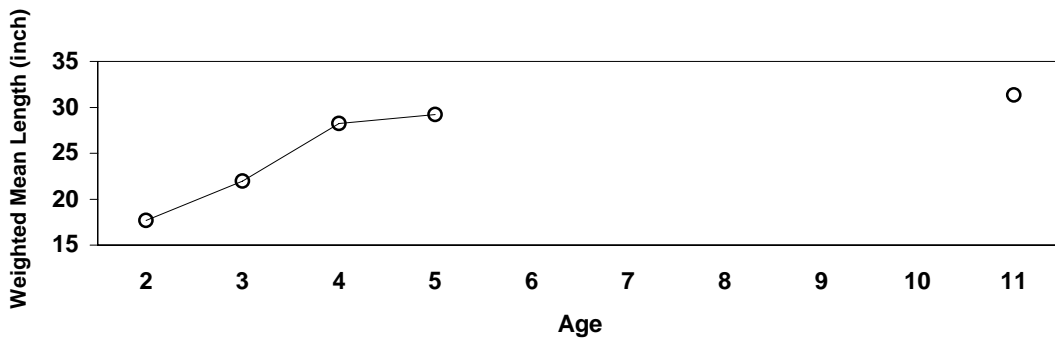


Figure 52. Weighted mean length at age of striped bass from Cherokee Reservoir's 2007 winter gill net sample.

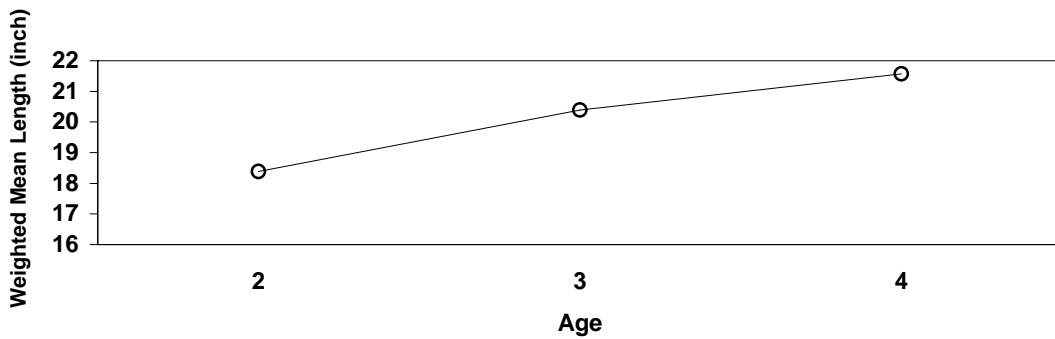


Figure 53. Weighted mean length at age of walleye from Cherokee Reservoir's 2007 winter gill net sample.

Creel

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2006

LAKE=CHEROKEE

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	18688	22.3	0.6	3220	0.1	4.6
02 FEBRUARY	14392	26.8	0.5	2616	0.1	3.6
03 MARCH	46711	45.4	1.5	8223	0.3	11.5
04 APRIL	34803	13.2	1.1	6039	0.2	8.6
05 MAY	50931	12.5	1.7	9212	0.3	12.6
06 JUNE	48491	9.0	1.6	8679	0.3	12.0
07 JULY	42921	20.4	1.4	8335	0.3	10.6
08 AUGUST	26820	28.5	0.9	5169	0.2	6.6
09 SEPTEMBER	34382	44.6	1.1	6269	0.2	8.5
10 OCTOBER	34892	19.0	1.2	6539	0.2	8.6
11 NOVEMBER	25513	11.8	0.8	4430	0.1	6.3
12 DECEMBER	26818	33.1	0.9	5646	0.2	6.6
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<b>TOTAL</b>	<b>405362</b>			<b>74377</b>		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2006

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	9344	29.6	0.50	19.2	748	58.0	0.04	47.5
02 FEBRUARY	12233	35.0	0.85	21.6	2015	59.0	0.14	52.4
03 MARCH	44375	48.9	0.95	16.6	6072	57.1	0.13	31.8
04 APRIL	30975	19.6	0.89	14.3	4524	31.5	0.13	28.7
05 MAY	52968	16.5	1.04	10.7	11714	32.4	0.23	29.7
06 JUNE	43157	11.9	0.89	7.8	12123	20.8	0.25	18.4
07 JULY	38629	24.0	0.90	12.4	12447	28.8	0.29	20.3
08 AUGUST	23870	30.8	0.89	11.1	4559	36.0	0.17	20.6
09 SEPTEMBER	46416	45.8	1.35	9.6	9283	48.3	0.27	16.7
10 OCTOBER	40824	21.9	1.17	10.5	8723	27.4	0.25	19.3
11 NOVEMBER	29595	13.8	1.16	7.2	5358	20.4	0.21	16.8
12 DECEMBER	28963	37.2	1.08	16.1	6436	46.0	0.24	29.7
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<b>TOTAL</b>	<b>401349</b>				<b>84002</b>			

**SUMMARY OF SPECIES CATCH STATISTICS - 2006**

**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
PADDFISH	57	2719.5	0.0	0	0	.	0.0	0	100.0	.	0
CARP	57	2719.5	0.0	0	0	.	0.0	0	100.0	.	0
BLUE CATFISH	536	676.7	0.1	536	301	538.4	0.4	301	43.8	4.17	7
CHANNEL CATFISH	32848	19.7	8.2	28646	20312	19.9	24.2	17560	38.2	1.82	369
FLATHEAD CATFISH	5090	93.2	1.3	5090	3947	91.2	4.7	3947	22.5	3.51	61
WHITE BASS	4487	146.2	1.1	2300	708	280.5	0.8	295	84.2	3.95	12
STRIPED BASS	5875	77.2	1.5	4544	2213	88.0	2.6	1736	62.3	12.49	51
CHEROKEE BASS	41076	18.5	10.2	18380	13271	22.4	15.8	6844	67.7	5.18	249
BLUEGILL	30337	26.2	7.6	12684	13060	26.1	15.5	6917	57.0	0.25	263
SMALLMOUTH BASS	21605	32.5	5.4	1339	313	155.5	0.4	0	98.6	3.19	7
SPOTTED BASS	3564	143.8	0.9	0	398	204.8	0.5	0	88.8	1.05	7
LARGEMOUTH BASS	169254	11.0	42.2	159620	2159	34.3	2.6	1867	98.7	2.37	37
WHITE CRAPPIE	3708	154.1	0.9	3362	751	188.6	0.9	751	79.7	0.61	16
BLACK CRAPPIE	71341	15.8	17.8	69825	21827	19.1	26.0	21827	69.4	0.78	450
BLACKNOSE CRAPPIE	404	295.2	0.1	404	317	297.5	0.4	317	21.5	1.16	8
SAUGER	145	1482.2	0.0	0	0	.	0.0	0	100.0	.	0
WALLEYE	7504	76.6	1.9	5966	3150	83.3	3.7	2520	58.0	2.47	55
FRESHWATER DRUM	2832	161.8	0.7	129	1126	177.2	1.3	119	60.2	2.05	19

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2006

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	36195	12.4	6726	8.9	0.78	26.1	0.52	25.5	93
ANY TEMPERATE BASS	634	98.1	112	0.2	0.00		0.00		1
WHITE BASS	3078	33.5	562	0.8	1.41	38.3	0.05	0.0	9
STRIPED BASS	44587	10.7	8114	11.0	0.11	39.0	0.05	46.9	141
CHEROKEE BASS	40713	12.1	7534	10.0	0.48	23.8	0.18	33.0	115
ANY SUNFISH	4069	30.4	754	1.0	1.81	25.4	0.87	40.6	10
ANY BLACK BASS	946	59.9	169	0.2	0.97		0.00		3
SMALLMOUTH BASS	3178	42.4	569	0.8	0.39	39.6	0.00		11
LARGEMOUTH BASS	177852	9.6	32513	43.9	0.74	9.4	0.01	140.7	641
ANY CRAPPIE	66884	11.9	12284	16.5	1.58	18.6	0.51	22.3	229
WALLEYE	6805	26.4	1301	1.7	0.78	13.9	0.32	24.6	18
ANY SPECIES	20425	14.6	3739	5.0	1.25	60.6	0.73	35.1	43
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<b>TOTAL</b>	<b>405366</b>		<b>74377</b>						

**SUMMARY OF RELATIVE SPECIES CATCH RATES  
WITHIN TARGET GROUPS - 2006**

**LAKE=CHEROKEE**

<b>TARGET GROUP</b>	<b>SPECIES WITHIN TARGET GROUPS</b>	<b>RELATIVE CATCH RATE</b>	<b>RELATIVE HARVEST RATE</b>
ANY CATFISH	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.01	0.01
	CHANNEL CATFISH	0.65	0.42
	FLATHEAD CATFISH	0.12	0.09
ANY TEMPERATE BASS	STRIPED BASS	0.00	0.00
	CHEROKEE BASS	0.00	0.00
ANY SUNFISH	BLUEGILL	1.81	0.87
ANY BLACK BASS			
ANY BLACK BASS			
ANY BLACK BASS			
	SMALLMOUTH BASS	0.01	0.00
	SPOTTED BASS	0.00	0.00
	LARGEMOUTH BASS	0.88	0.01
ANY CRAPPIE	ANY CRAPPIE	0.00	0.00
	WHITE CRAPPIE	0.07	0.02
	BLACK CRAPPIE	1.50	0.49
	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=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	14	0.87	7	0.54	49
02 FEBRUARY	31	0.64	11	0.63	51
03 MARCH	34	0.80	16	0.67	53
04 APRIL	27	1.08	16	0.72	50
05 MAY	8	0.95	3	0.94	63
06 JUNE	10	0.95	4	0.78	57
07 JULY	7	0.65	2	0.56	45
08 AUGUST	7	0.67	3	0.70	45
09 SEPTEMBER	20	1.02	7	0.76	41
10 OCTOBER	3	0.93	2	0.65	47
11 NOVEMBER	6	1.51	4	0.68	46
12 DECEMBER	25	1.17	4	0.67	27

**SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS  
FOR INTENDED SPECIES - 2006**

**LAKE=CHEROKEE**

<b>INTENDED SPECIES</b>	<b>TOTAL TRIP EXPENDITURES</b>	<b>TOTAL CONSUMER SURPLUS</b>	<b>TOTAL VALUE BY ANGLERS</b>	<b>NUMBER OF INTERVIEWS</b>
ANY CATFISH	23160	47910	71070	89
ANY TEMPERATE BASS	930	930	1860	1
WHITE BASS	590	3560	4150	9
STRIPED BASS	165590	141930	307520	140
CHEROKEE BASS	107330	111390	218720	111
ANY SUNFISH	2750	3620	6380	7
ANY BLACK BASS	6320	3950	10270	3
SMALLMOUTH BASS	7590	8610	16200	11
LARGEMOUTH BASS	509540	508140	1017680	626
ANY CRAPPIE	16870	62860	79730	224
WALLEYE	7670	12720	20390	18
ANY SPECIES	4410	16260	20670	37
<b>TOTAL</b>	<b>852750</b>	<b>921880</b>	<b>1774640</b>	<b>1276</b>

**SUMMARY OF SOCIOLOGICAL QUESTIONS - 2006**

**LAKE=CHEROKEE**

**DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS**

<b>STATE</b>	<b>NUMBER ANGLERS INTERVIEWED</b>	<b>PERCENT CONTRIBUTION</b>
KY	257	10.0
TN	2002	77.7
VA	232	9.0
OTHERS	87	3.4

**DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS**

<b>COUNTY</b>	<b>NUMBER ANGLERS INTERVIEWED</b>	<b>PERCENT CONTRIBUTION</b>
GRAINGER	375	18.8
HAMBLEN	481	24.1
HAWKINS	370	18.5
JEFFERSON	107	5.4
KNOX	152	7.6
SULLIVAN	265	13.3
OTHERS IN TN	247	12.4

**DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED**

<b>ONE-WAY MILES TRAVELED</b>	<b>NUMBER ANGLERS INTERVIEWED</b>	<b>PERCENT CONTRIBUTION</b>
A) 0-25	1473	57.3
B) 26-100	1047	40.7
C) 101-250	47	1.8
D) > 250	5	0.2

**DISTRIBUTION OF REASONS WHY INTERVIEWED ANGLERS MADE THE TRIP**

<b>REASON FOR TRIP</b>	<b>NUMBER ANGLERS INTERVIEWED</b>	<b>PERCENT CONTRIBUTION</b>
A) FISHING	1291	98.6
B) VACATION	17	1.3
D) OTHER	1	0.1

**DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS**

<b>NUMBER DAYS IN TRIP</b>	<b>NUMBER ANGLERS INTERVIEWED</b>	<b>PERCENT CONTRIBUTION</b>
A) 1	1251	95.4
B) 2-5	58	4.4
C) 6-10	2	0.