Cherokee Reservoir

Annual Report 2008

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All activities covered in this report were conducted under the following TWRA cost centers: 4311, 4312, and 4313. Development of this report was financed in part by funds from Federal Aid in Fish and Wildlife Restoration (Public Law 91-503) as documented in Federal Aid Project FW-6.

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Cherokee Reservoir - 2008

Description

Area: 30,300 acres **Shoreline:** 393 miles

Counties: Jefferson, Grainger, Hamblen, and Hawkins

Total Fishing Effort in 2008: 407,675 hours **Total Value by Anglers in 2008:** $972,470.00

Black Bass

Angling Pressure	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Mean
All Black Bass (hrs)	135,726	165,246	-	199,534	-	193,324	-	181,976	-	189,452	177,543
(hrs/acre)	4.48	5.45	-	6.59	-	6.38	-	6.01	-	6.25	5.86
Any Black Bass (hrs)	133,874	10,798	-	412	-	1,587	-	946	-	702	24,720
(hrs/acre)	4.42	0.36	-	0.01	-	0.05	-	0.03	-	0.02	0.82
Largemouth Bass (hrs)	996	143,082	-	188,015	-	188,043	-	177,852	-	188,140	147,688
(hrs/acre)	0.03	4.72	-	6.21	-	6.21	-	5.87	-	6.21	4.87
Smallmouth Bass (hrs)	856	11,366	-	10,317	-	3,694	-	3,178	-	610	5,004
(hrs/acre)	0.03	0.38	-	0.34	-	0.12	-	0.10	-	0.02	0.17
Spotted Bass (hrs)	0	0	-	790	-	0	-	0	-	0	132
(hrs/acre)	0.00	0.00	-	0.03	-	0.00	-	0.00	-	0.00	0.00
Tournaments (all black bass)											
Tournament Angler Hrs/Acre (creel)	-	-	-	-	-	-	-	-	-	-	-
Tournament Catch Rate (creel)	-	-	-	-	-	-	-	-	-	-	-
Non-Tournament Catch Rate (creel)	-	-	-	-	-	-	-	-	-	-	-
Value of Fishery (Trip Expenditures)											
All Black Bass	-	$184,400	-	$212,490	-	$469,580	-	$523,450	-	$709,440	$419,872
Any Black Bass	-	$14,630	-	$340	-	$3,080	-	$6,320	-	$0	$4,874
Largemouth Bass	-	$156,350	-	$201,950	-	$459,720	-	$509,540	-	$707,520	$407,016
Smallmouth Bass	-	$13,420	-	$10,050	-	$6,780	-	$7,590	-	$1,920	$7,952
Spotted Bass	-	$0	-	$150	-	$0	-	$0	-	$0	$30

Largemouth Bass

Recruitment (electrofishing)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Mean
Substock CPUE	7.70	6.40	28.00	8.00	6.93	4.57	5.60	4.53	8.00	6.67	8.64
Density (electrofishing)											
PSD	70	68	72	60	77	63	84	72	79	68	71
RSD (preferred)	-	-	36	30	46	44	52	47	55	33	43
CPUE (total)	53.2	41.6	90.4	70.9	51.2	71.1	74.4	61.3	53.6	60.8	62.9
CPUE ≥ Stock	45.5	35.2	62.4	62.9	44.3	66.6	68.8	56.8	45.6	54.1	54.2
CPUE ≥ MLL (15-inches)	-	-	22.4	18.3	20.5	29.1	36.0	26.7	25.1	17.6	24.5
Growth (electrofishing)											
Length Age-1	-	-	6.9	-	-	-	-	-	-	-	6.9
Length Age-3	-	-	14.8	-	-	-	-	-	-	-	14.8
Condition (spring electrofishing)											
Stock	87.9	85.9	84.6	82.5	85.9	88.3	87.3	89.5	88.9	89.1	87.0
Quality	90.9	91.5	93.8	86.9	95.6	90.1	93.1	89.7	93.6	93.6	91.9
Preferred	95.8	96.0	101.9	99.4	99.6	94.6	96.7	93.2	93.9	93.5	96.5
Memorable	102.8	100.0	104.2	97.9	107.0	86.7	89.6	88.2	94.3	91.7	96.2
Mortality (electrofishing)											
Total Mortality	-	-	41.0%	-	-	-	-	-	-	-	41.0%
Fishing Success (creel)											
Catch Rate (intended)	1.42	0.54	-	0.68	-	0.57	-	0.74	-	0.62	0.76
Harvest Rate (intended)	0.50	0.04	-	0.01	-	0.00	-	0.01	-	0.01	0.10
% Released	86.8%	93.4%	-	98.1%	-	98.4%	-	98.7%	-	98.3%	95.6%
Mean Weight	2.08	2.60	-	2.29	-	2.45	-	2.37	-	2.34	2.36

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

Management Recommendations: No changes in creel limits are necessary.

Smallmouth Bass

Recruitment (electrofishing)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Mean
Substock CPUE	0.53	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00	0.16
Density (electrofishing)											
PSD	67	-	60	42	-	65	88	60	71	100	69
RSD (preferred)	-	-	40	17	-	15	65	50	71	100	51
CPUE (preferred)	0.8	0.0	0.0	0.3	0.0	0.3	0.8	0.5	0.3	0.8	0.4
CPUE (memorable)	1.1	0.8	0.3	0.3	0.0	0.6	1.6	0.8	0.8	0.8	0.7
CPUE (trophy)	0.0	0.0	0.3	0.0	0.0	0.0	0.5	0.0	0.3	0.0	0.1
CPUE (total)	3.5	4.5	2.4	1.3	3.2	1.1	5.7	4.5	2.4	1.6	3.0
CPUE ≥ Stock	3.0	4.0	2.4	1.3	3.2	1.1	5.7	4.5	1.9	1.6	2.9
CPUE ≥ Preferred	1.9	0.8	0.6	0.6	0.0	0.9	2.9	1.3	1.4	1.6	1.2
CPUE ≥ MLL (18-inches)	0.1	0.5	0.3	0.3	0.0	0.6	1.6	0.8	1.1	0.8	0.6
Growth (electrofishing)											
Length Age-1	-	-	-	-	-	-	-	-	-	-	-
Length Age-3	-	-	-	-	-	-	-	-	-	-	-
Condition (spring electrofishing)											
Stock	77.2	81.0	80.4	78.7	85.9	82.7	88.3	92.1	81.0	-	83.0
Quality	90.7	82.8	83.4	74.2	-	84.2	87.4	77.4	-	-	82.9
Preferred	98.7	-	-	77.9	-	111.1	91.6	95.2	87.1	90.4	93.1
Memorable	100.6	97.9	92.7	-	-	84.1	87.9	90.4	84.8	86.3	90.6
Mortality (electrofishing)											
Total Mortality	-	-	-	-	-	-	-	-	-	-	-
Fishing Success (creel)											
Catch Rate (intended)	0.46	0.24	-	0.26	-	0.68	-	0.39	-	0.29	0.39
Harvest Rate (intended)	0.12	0.05	-	0.02	-	0.00	-	0.00	-	0.00	0.03
% Released	88.2%	89.0%	-	94.5%	-	95.8%	-	98.6%	-	98.8%	94.2%
Mean Weight	2.63	2.46	-	1.97	-	2.77	-	3.19	-	1.74	2.46

Fishery Forecast: Cherokee's smallmouth fishery continues as always to make up only a small percentage of the black bass population.

Management Recommendations: No changes in creel limits are planed for the future.

Spotted Bass

Recruitment (electrofishing)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Mean
Substock CPUE	0.00	0.53	0.53	0.53	0.53	0.00	0.00	0.00	0.00	0.80	0.29
Density (electrofishing)											
PSD	-	-	62	25	42	15	83	46	30	56	45
RSD (preferred)	-	-	15	25	16	8	17	8	4	9	13
CPUE (total)	2.1	2.1	4.0	3.7	5.6	3.7	8.0	3.5	7.2	9.3	4.9
CPUE ≥ Stock	2.1	1.6	3.5	3.2	5.1	3.7	8.0	3.5	7.2	8.5	4.6
Growth (electrofishing)											
Length Age-1	-	-	-	-	-	-	-	-	-	-	-
Length Age-3	-	-	-	-	-	-	-	-	-	-	-
Condition (spring electrofishing)											
Stock	87.4	97.6	101.1	88.1	91.5	97.1	94.1	93.5	100.7	99.4	95.1
Quality	96.7	100.5	108.7	-	99.0	94.8	100.4	97.5	106.7	99.5	100.4
Preferred	106.2	101.4	100.9	99.2	107.5	89.4	102.9	100.0	110.2	100.7	101.8
Mortality (electrofishing)											
Total Mortality	-	-	-	-	-	-	-	-	-	-	-
Fishing Success (creel)											
Catch Rate (intended)	-	-	-	1.12	-	-	-	-	-	-	1.12
Harvest Rate (intended)	-	-	-	0.34	-	-	-	-	-	-	0.34
% Released	76.7%	75.0%	-	87.3%	-	67.3%	-	88.8%	-	92%	81.2%
Mean Weight	0.90	1.60	-	0.63	-	0.88	-	1.05	-	1	1.04

Fishery Forecast: Anglers are encouraged to harvest this species for the table because they compete with the more desirable and larger growing largemouth and smallmouth bass.

Management Recommendations: Continue to encourage anglers to harvest spotted bass.

Black Crappie

Recruitment (trap netting)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Mean
Substock CPUE	0.40	0.10	0.50	0.30	2.70	1.10	0.20	0.20	0.50	0.10	0.61
Density (trap netting)											
PSD	74	76	93	58	82	66	80	90	83	85	79
RSD (preferred)	-	-	57	17	44	38	32	49	42	44	40
CPUE (total)	2.2	2.3	2.2	2.2	5.0	3.2	3.7	5.3	6.5	1.9	3.5
CPUE ≥ Stock	1.8	2.2	1.7	1.9	2.3	2.1	3.5	5.1	6.0	1.8	2.8
CPUE ≥ MLL (10-inches)	-	-	1.0	0.3	1.1	0.8	1.3	2.5	2.5	0.8	1.3
Growth (trap netting)											
Length Age-1	-	-	-	-	-	-	-	-	-	-	-
Length Age-3	-	-	-	-	-	-	-	-	-	-	-
Condition (trap netting)											
Stock	91.6	93.3	91.1	92.4	86.7	93.0	92.3	100.3	97.8	102.5	94.1
Quality	100.4	97.6	92.1	91.6	92.9	100.7	99.7	97.9	98.5	99.0	97.0
Preferred	98.3	97.3	94.3	82.4	93.4	95.8	96.3	95.9	96.7	92.8	94.3
Memorable	98.0	93.5	95.5	87.8	91.7	93.2	93.7	94.0	97.6	94.3	93.9
Mortality (trap netting)											
Total Mortality	-	-	-	-	-	-	-	-	-	-	-
Stocking	BNBC				WC			BC	BNBC	BNBC	
#	26,383	0	0	0	38,740	0	0	56,071	72,775	62,582	25,655
#/Acre	0.9	0.0	0.0	0.0	1.3	0.0	0.0	1.9	2.4	2.1	0.8
Angling Pressure (creel)											
Angler Hours (all crappie)	48,438	70,005	-	74,223	-	96,689	-	66,884	-	83,486	73,288
Angler Hours/Acre	1.6	2.3	-	2.4	-	3.2	-	2.2	-	2.8	2.4
Fishing Success (creel)											
Catch Rate (any crappie)	2.24	1.91	-	1.06	-	1.03	-	1.58	-	1.17	1.50
Harvest Rate (any crappie)	0.78	0.53	-	0.37	-	0.41	-	0.51	-	0.52	0.52
% Released (black crappie)	66.4%	76.6%	-	68.9%	-	60.3%	-	69.4%	-	55.5%	66.2%
Mean Weight (black crappie)	0.81	0.82	-	0.97	-	0.77	-	0.78	-	0.77	0.82
Value of Fishery (Trip Expenditures - creel)											
All Crappie	-	$44,280	-	$27,970	-	$57,660	-	$16,870	-	$35,160	$36,695

Fishery Forecast: Several years of excellent recruitment is needed to bring the fishery back to where it was in the mid-1990s. A high percentage of the population is available for harvest.

Management Recommendations: No changes in creel limits are proposed.

Striped Bass

Density (gill netting)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Mean
PSD	-	-	-	-	-	-	79	86	-	69	78
RSD (preferred)	-	-	-	-	-	-	13	43	-	-	28
CPUE (total)	-	-	-	-	-	-	2.7	1.2	-	2.2	2.0
CPUE ≥ Stock	-	-	-	-	-	-	2.7	1.2	-	2.2	2.0
CPUE ≥ 15-inches	-	-	-	-	-	-	2.7	1.2	-	2.2	2.0
Growth (gill netting)											
Length Age-2	-	-	-	-	-	17.3	17.9	-	17.7	17.2	17.5
Length Age-3	-	-	-	-	-	23.8	23.8	-	22.0	23.2	23.2
Condition (gill netting)											
Stock	-	-	-	-	-	-	103.2	108.1	-	87.5	99.6
Quality	-	-	-	-	-	-	102.1	94.1	-	86.6	94.3
Preferred	-	-	-	-	-	-	93.6	74.6	-	-	84.1
Memorable	-	-	-	-	-	-	-	-	-	-	-
Mortality (gill netting)											
Total Mortality	-	-	-	-	-	-	-	-	-	-	-
Stocking											
#	108,944	0	150,935	97,857	103,423	81,285	133,646	168,434	151,818	0	99,634
#/Acre	3.6	0.0	5.0	3.2	3.4	2.7	4.4	5.6	5.0	0.0	3.3
Angling Pressure (creel)											
Angler Hours	100,551	135,125	-	75,660	-	108,442	-	44,587	-	23,301	81,278
Angler Hours/Acre	3.3	4.5	-	2.5	-	3.6	-	1.5	-	0.8	2.7
Fishing Success (creel)											
Catch Rate (intended)	0.32	0.40	-	0.18	-	0.18	-	0.11	-	0.11	0.22
Harvest Rate (intended)	0.16	0.17	-	0.10	-	0.08	-	0.05	-	0.05	0.10
% Released	55.1%	60.8%	-	62.4%	-	60.4%	-	62.3%	-	76.0%	62.8%
Mean Weight	12.51	10.14	-	11.41	-	11.72	-	12.49	-	8.51	11.13
Value of Fishery (Trip Expenditures - creel)											
Striped Bass	-	$288,710	-	$230,360	-	$357,800	-	$165,590	-	$73,040	$223,100

Fishery Forecast: Although striped bass were the major Morone species stocked in the recent past, they have never been well suited for the water quality conditions present. Fewer stripers are now being stocked to reduce summer dies-offs and allow the more tolerant hybrids to dominate the Morone fishery without unnecessary competition.

Management Recommendations: No changes in creel limits are planed for the future.

Hybrid Striped Bass

Density (gill netting)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Mean
PSD	-	-	-	-	-	-	100	100	-	100	100
RSD (preferred)	-	-	-	-	-	-	100	95	-	99	98
CPUE (total)	-	-	-	-	-	-	27.7	14.3	-	15.7	19.2
CPUE ≥ Stock	-	-	-	-	-	-	27.7	14.3	-	15.7	19.2
CPUE ≥ 15-inches	-	-	-	-	-	-	27.3	14.0	-	15.7	19.0
Growth (gill netting)											
Length Age-2	-	-	-	-	-	-	18.0	16.9	18.8	18.0	17.9
Length Age-3	-	-	-	-	-	-	20.5	21.1	20.0	20.7	20.6
Condition (gill netting)											
Stock	-	-	-	-	-	-	-	-	-	-	-
Quality	-	-	-	-	-	-	99.8	95.4	-	-	97.6
Preferred	-	-	-	-	-	-	100.3	96.3	-	101.8	99.5
Memorable	-	-	-	-	-	-	102.0	93.3	-	99.1	98.1
Mortality (gill netting)											
Total Mortality	-	-	-	-	-	-	-	-	-	32	32.0
Stocking											
#	0	150,000	48,613	58,934	51,708	117,952	31,950	56,882	55,006	85,382	65,643
#/Acre	0.0	5.0	1.6	1.9	1.7	3.9	1.1	1.9	1.8	2.8	2.2
Angling Pressure (creel)											
Angler Hours	-	-	-	549	-	18,090	-	40,713	-	44,202	25,889
Angler Hours/Acre	-	-	-	0.0	-	0.6	-	1.3	-	1.3	0.8
Fishing Success (creel)											
Catch Rate (intended)	-	-	-	0.32	-	0.43	-	0.48	-	0.61	0.46
Harvest Rate (intended)	-	-	-	0.32	-	0.14	-	0.18	-	0.21	0.21
% Released	-	-	-	69.9%	-	81.3%	-	67.7%	-	70.4%	72.3%
Mean Weight	-	-	-	4.32	-	6.36	-	5.18	-	6.63	5.62
Value of Fishery (Trip Expenditures - creel)											
Hybrid Striped Bass	-	-	-	$450	-	$54,590	-	$107,330	-	$114,290	$69,165

Fishery Forecast: The survival rate of hybrids is so outstanding that stocking rates have recently been reduced to avoid over-populating the reservoir. Anglers from Tennessee and neighboring states are fishing heavily for hybrids. The 2008 creel and TWRA's gill net data indicates the fishery continues to improve.

Management Recommendations: No changes in creel limits are proposed.

Walleye

Stocking	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Mean
#	93,323	0	0	0	149,810	156,792	60,089	75,629	146,959	168,535	85,114
#/Acre	3.1	0.0	0.0	0.0	4.9	5.2	2.0	2.5	4.9	5.6	2.8
Angling Pressure (creel)											
Angler Hours	12,036	5,303	-	794	-	656	-	6,805	-	3,390	4,831
Angler Hours/Acre	0.4	0.2	-	0.0	-	0.0	-	0.2	-	0.2	0.2
Fishing Success (creel)											
Catch Rate (intended)	0.54	0.37	-	0.00	-	0.44	-	0.78	-	0.27	0.40
Harvest Rate (intended)	0.24	0.18	-	0.00	-	0.13	-	0.32	-	0.07	0.16
% Released	59.2%	50.7%	-	0.0%	-	85.4%	-	58.0%	-	89.1%	57.1%
Mean Weight	1.87	2.01	-	1.40	-	1.40	-	2.47	-	2.41	1.93
Value of Fishery (Trip Expenditures - creel)											
Walleye	-	$3,780	-	$1,140	-	$1,640	-	$7,670	-	-	$3,558

Sunfish

Angling Pressure (creel)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Mean
Angler Hours (all sunfish)	3,958	5,393	-	5,376	-	4,223	-	4,069	-	4,361	4,563
Angler Hours/Acre	0.1	0.2	-	0.2	-	0.1	-	0.1	-	0.1	0.2
Fishing Success (creel)											
Catch Rate (any sunfish)	3.18	3.08	-	3.17	-	4.29	-	1.81	-	1.86	2.90
Harvest Rate (any sunfish)	2.32	1.83	-	1.71	-	2.46	-	0.87	-	0.75	1.66
% Released (bluegill)	46.3%	56.5%	-	-	-	-	-	57.0%	-	52.9%	53.2%
Mean Weight (bluegill)	0.50	0.19	-	-	-	-	-	0.25	-	0.26	0.30
Value of Fishery (Trip Expenditures - creel)											
All Sunfish	-	$4,510	-	$770	-	$3,760	-	$2,750	-	$3,170	$2,992

Catfish

Angling Pressure (creel)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Mean
Angler Hours (all catfish)	29,209	36,277	-	36,990	-	20,832	-	36,195	-	39,978	33,247
Angler Hours/Acre	1.0	1.2	-	1.2	-	0.7	-	1.2	-	1.3	1.1
Fishing Success (creel)											
Catch Rate (any catfish)	0.76	0.99	-	0.86	-	0.78	-	0.78	-	0.64	0.80
Harvest Rate (any catfish)	0.58	0.77	-	0.62	-	0.52	-	0.52	-	0.41	0.57
% Released (channel)	24.6%	28.9%	-	40.5%	-	40.4%	-	38.2%	-	44.1%	36.1%
Mean Weight (channel)	3.37	1.65	-	1.76	-	1.43	-	1.82	-	1.57	1.93
Value of Fishery (Trip Expenditures - creel)											
All Catfish	-	$28,810	-	$31,280	-	$14,870	-	$23,160	-	$24,060	$24,436

Shad

Density (Summer Shad Gill Netting) (geometric means)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Mean
Alewife CPUE	-	-	-	16.2	67.3	5.3	0.1	0.4	0.4	0.4	12.9
Gizzard CPUE	-	-	-	14.1	67.7	9.3	1.7	3.3	3.3	1.7	14.4
Threadfin CPUE	-	-	-	17.1	1.9	9.7	1.6	3.0	2.0	4.7	5.7

Habitat Enhancement

Type of Work	**Details**	**Quantity**	
		New	**Renovated**
Rebrush	Christmas trees with block	none	8 sites, 550 units, 12.0 acres

Water Quality Monitoring

Parameter	**Sampling Period**	**Water Quality**
Temperature	July - September	Normal
Dissolved Oxygen	July - September	Normal
PH	July - September	Normal
Conductivity	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
Year Inpounded	1941

Table 2. Cherokee Reservoir fish stockings 1998 - 2008.

Species	Date	Rate (per acre)	Total Stocked
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
	2008	2.8	85,382
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
	2008	5.6	168,535
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
	2008	0.0	1,002
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
	2008	2.1	62,582

Table 3. Relative stock density, mean relative weight, and catch per unit effort by RSD catagory for target species collected in Cherokee Reservoir during 1998-2008.

				Substock			RSD-stock				RSD-quality				RSD-preferred				RSD-memorable				RSD-trophy				Total		PSD
Species	Year	Gear	Samples	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.
Largemouth	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
Bass	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
	2008	Electro	15	25	6.7	11.0	65	17.3	28.5	89.1	72	19.2	31.6	93.6	63	16.8	27.6	93.5	3	0.8	1.3	91.7	0	0.0	0.0	0.0	228	60.8	68
Smallmouth	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	
Bass	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
	2008	Electro	15	0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	3	0.8	50.0	90.4	3	0.8	50.0	86.3	0	0.0	0.0	0.0	6	1.6	100
Spotted	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
Bass	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
	2008	Electro	15	3	0.8	8.6	14	3.7	40.0	99.4	15	4.0	42.9	99.5	3	0.8	8.6	100.7	0	0.0	0.0	0.0	0	0.0	0.0	0.0	35	9.3	56
White	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
Crappie	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	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
Crappie	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	100.5	42	12.0	73.7	98.4	8	2.3	14.0	97.6	0	0.0	0.0	0.0	57	18.3	100
	2005	Electro	15	0	0.0	0.0	0	0.0	0.0	0.0	4	1.1	16.0	100.4	2	0.5	8.0	93.5	17	4.5	68.0	96.1	2	0.5	8.0	0.0	25	6.7	100
	2006	Electro	15	0	0.0	0.0	0	0.0	0.0	0.0	9	2.4	28.1	101.6	13	3.5	40.6	99.7	10	2.7	31.3	106.2	0	0.0	0.0	0.0	32	8.5	100
	2007	Electro	15	0	0.0	0.0	0	0.0	0.0	0.0	7	1.9	16.3	95.4	20	5.3	46.5	98.9	16	4.3	37.2	97.2	0	0.0	0.0	0.0	43	11.5	100
	2008	Electro	15	0	0.0	0.0	0	0.0	0.0	0.0	14	3.7	16.1	100.3	21	5.6	24.1	99.5	52	13.9	59.8	95.4	0	0.0	0.0	0.0	87	23.2	100
	1998	Trap	106	166	1.6	41.7	61	0.6	15.3	90.4	86	0.8	21.6	98.6	74	0.7	18.6	100.4	11	0.1	2.8	96.4	0	0.0	0.0	0.0	398	3.8	74
	1999	Trap	106	53	0.4	22.7	36	0.5	15.5	91.6	66	0.6	28.3	100.4	55	0.5	23.6	98.3	23	0.2	9.9	98.0	0	0.0	0.0	0.0	233	2.2	74
	2000	Trap	101	6	0.1	2.5	56	0.6	23.7	93.3	73	0.7	30.1	97.6	71	0.7	30.0	97.3	30	0.3	12.7	93.5	0	0.0	0.0	0.0	236	2.3	76
	2001	Trap	106	58	0.5	24.3	13	0.1	5.5	91.1	64	0.6	27.0	92.1	85	0.8	35.9	94.3	17	0.2	7.2	95.5	0	0.0	0.0	0.0	237	2.2	93
	2002	Trap	106	34	0.3	14.8	82	0.8	35.7	92.4	81	0.8	35.2	91.6	25	0.2	10.9	82.4	8	0.1	3.5	87.8	0	0.0	0.0	0.0	230	2.2	58
	2003	Trap	106	285	2.7	53.8	43	0.4	8.1	86.7	94	0.9	17.7	92.9	98	0.9	18.5	93.4	10	0.1	1.9	91.7	0	0.0	0.0	0.0	530	5.0	82
	2004	Trap	104	116	1.1	34.6	75	0.7	22.4	93.0	61	0.6	18.2	100.7	67	0.6	20.0	95.8	16	0.2	4.8	93.2	0	0.0	0.0	0.0	335	3.2	66
	2005	Trap	104	22	0.2	5.7	73	0.7	18.9	92.3	175	1.7	45.2	99.7	82	0.8	21.2	96.3	34	0.3	8.8	93.7	1	0.0	0.3	0.0	387	3.7	80
	2006	Trap	106	26	0.2	4.6	55	0.5	9.8	100.3	219	2.1	39.0	97.9	216	2.0	38.4	95.9	46	0.4	8.2	94.0	0	0.0	0.0	0.0	562	5.3	90
	2007	Trap	106	55	0.5	7.9	107	1.0	15.4	97.8	266	2.5	38.3	98.5	229	2.2	33.0	96.7	36	0.3	5.2	97.6	1	0.0	0.1	0.0	694	6.5	83
	2008	Trap	106	12	0.1	5.9	28	0.3	13.7	102.5	80	0.8	39.0	99.0	65	0.6	31.7	94.8	20	0.2	9.8	94.3	0	0.0	0.0	0.0	205	1.9	85
Blacknose	1998	Trap	106	5	0.1	38.5	3	0.0	23.1	0.0	5	0.1	38.5	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	13	0.1	
Crappie	1999	Trap	106	2	0.0	66.6	1	0.0	33.3	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	0.0	3	0.0	
	2000	Trap	101	0	0.0	0.0	6	0.1	42.9	99.2	4	0.0	28.6	101.7	2	0.0	14.3	93.7	2	0.0	14.3	89.6	0	0.0	0.0	0.0	14	0.1	
	2001	Trap	106	1	0.0	9.1	2	0.0	18.2	0.0	4	0.0	36.4	0.0	2	0.0	18.2	0.0	2	0.0	18.2	0.0	0	0.0	0.0	0.0	11	0.1	
	2002	Trap	106	2	0.0	10.5	10	0.1	52.6	92.8	5	0.0	26.3	89.7	1	0.0	5.3	72.3	1	0.0	5.3	108.5	0	0.0	0.0	0.0	19	0.2	41
	2003	Trap	106	3	0.0	15.0	1	0.0	5.0	81.7	11	0.1	55.0	93.4	5	0.0	25.0	90.4	0	0.0	0.0	0.0	0	0.0	0.0	0.0	20	0.2	94
	2004	Trap	104	1	0.0	5.6	4	0.0	22.2	85.8	9	0.1	50.0	99.0	2	0.0	11.1	92.5	2	0.0	11.1	95.1	0	0.0	0.0	0.0	18	0.2	76
	2005	Trap	104	0	0.0	0.0	2	0.0	12.5	81.2	5	0.0	31.3	97.4	5	0.0	31.3	96.3	4	0.0	25.0	92.3	0	0.0	0.0	0.0	16	0.2	88
	2006	Trap	106	0	0.0	0.0	3	0.0	13.6	102.7	4	0.0	18.2	90.5	11	0.1	50.0	95.1	4	0.0	18.2	92.4	0	0.0	0.0	0.0	22	0.2	86
	2007	Trap	106	0	0.0	0.0	5	0.0	35.7	93.4	6	0.1	42.9	98.8	3	0.0	21.4	95.7	0	0.0	0.0	0.0	0	0.0	0.0	0.0	14	0.1	64
	2008	Trap	106	0	0.0	0.0	0	0.0	0.0	0.0	2	0.0	50.0	100.4	2	0.0	50.0	95.9	0	0.0	0.0	0.0	0	0.0	0.0	0.0	4	0.0	100

Table 4. Relative stock density, mean relative weight, and catch per unit effort by RSD catagory for target species collected in Cherokee Reservoir during 1998-2009.

				Substock			RSD-stock				RSD-quality				RSD-preferred				RSD-memorable				RSD-trophy				Total		PSD
Species	Year	Gear	Samples	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.
Striped	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	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	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	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	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	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	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	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	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	7	1.2	86
	2008	SB Gill	6	0	0.0	0.0	4	0.7	30.8	87.5	9	1.5	69.2	86.6	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	13	2.2	69
	2009	SB Gill	8	0	0.0	0.0	18	2.3	17.5	107.2	85	10.6	82.5	98.7	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	103	12.9	83
White	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	43	3.1	100
Bass	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	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	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	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	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	1	0.2	100
	2008	SB Gill	6	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	100.0	97.0	0	0.0	0.0	0.0	2	0.3	100
	2009	SB Gill	8	0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	2	0.3	22.2	107.6	7	0.9	77.8	103.1	0	0.0	0.0	0.0	9	1.1	100
Hybrid	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
Striped	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
Bass	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
	2008	SB Gill	6	0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	22	3.7	23.4	101.8	69	11.5	73.4	99.1	3	0.5	3.2	nr	94	15.7	100
	2009	SB Gill	8	0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	38	4.8	27.9	102.5	91	11.4	66.9	100.8	7	0.9	5.2	nr	136	17.0	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	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	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	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	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	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	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	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	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	20	3.3	100
	2008	SB Gill	6	0	0.0	0.0	0	0.0	0.0	0.0	1	0.2	33.3	96.3	2	0.3	66.7	96.6	0	0.0	0.0	0.0	0	0.0	0.0	0.0	3	0.5	100
	2009	SB Gill	8	0	0.0	0.0	0	0.0	0.0	0.0	2	0.3	100.0	93.5	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	2	0.3	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	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	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	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	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	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	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	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	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	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	6	0.4	
Flathead	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	2	0.3	
Catfish	1999	Gill	15	0	0.0	0.0	2	0.1	14.3	80.8	6	0.4	42.9	119.6	5	0.3	35.7	135.9	1	0.1	7.1	133.2	0	0.0	0.0	0.0	14	0.9	86
	2000	Gill	14	0	0.0	0.0	7	0.5	33.3	97.1	13	0.9	61.9	104.1	1	0.1	4.8	106.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	21	1.5	67
	2002	Gill	6	0	0.0	0.0	2	0.3	66.6	108.2	0	0.0	0.0	0.0	1	0.2	33.3	110.4	0	0.0	0.0	0.0	0	0.0	0.0	0.0	3	0.5	33
Channel	1998	Gill	6	1	0.2	5.6	6	1.0	33.3	106.6	11	1.8	61.1	102.2	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	18	3.0	65
Catfish	1999	Gill	15	1	0.1	10.0	5	0.3	50.0	92.8	4	0.3	40.0	100.1	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	10	0.7	
	2000	Gill	14	7	0.5	24.1	13	0.9	44.8	83.2	8	0.6	27.6	103.1	1	0.1	3.4	129.5	0	0.0	0.0	0.0	0	0.0	0.0	0.0	29	2.1	45
	2001	Gill	5	3	0.6	37.5	3	0.6	37.5	100.7	2	0.4	25.0	102.5	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	8	1.6	40
	2002	Gill	6	14	2.3	42.4	12	2.0	36.6	94.6	7	1.2	21.2	108.7	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	33	5.5	37
	2003	Gill	10	6	0.6	10.3	39	3.9	67.2	91.5	12	1.2	20.7	101.7	1	0.1	1.7	99.9	0	0.0	0.0	0.0	0	0.0	0.0	0.0	58	5.8	25
	2004	Gill	10	19	1.9	40.4	23	2.3	48.9	81.8	5	0.5	10.6	89.7	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	47	4.7	

Table 5. Mean relative weight and standard error values by size class for Cherokee Reservoir black crappie collected during the 2008 electrofishiing sample.

Size Class	Mean Wr	Std. Error	N
8	105.0	2.9	3
9	99.4	2.3	12
10	98.5	3.5	7
11	98.5	1.3	19
12	95.6	1.0	33
13	94.7	1.3	12
14	94.5		1
		Total Catch	87

Table 6. Mean relative weight and standard error values by size class for Cherokee Reservoir black crappie collected during the 2008 trap net sample.

Size Class	Mean Wr	Std. Error	N
5	101.8	5.6	2
6	99.8	6.9	4
7	103.2	1.2	24
8	100.8	1.5	49
9	95.2	1.3	34
10	95.7	1.2	32
11	93.6	1.3	28
12	95.8	1.6	13
13	93.6	3.6	3
14	85.6	1.2	2
		Total Catch	191

Table 7. Mean relative weight and standard error values by size class for Cherokee Reservoir hybrid striped bass collected in the 2008 winter gill net sample.

Size Class	Mean Wr	Std. Error	N
16	105.566		1
17	99.702	2.028	6
18	99.519	2.082	7
19	104.833	2.574	8
20	103.121	1.616	18
21	101.201	2.068	12
22	94.689	1.641	14
23	98.176	1.289	21
24	97.714	3.938	5
25	96.408	3.265	2
		Total Catch	94

Table 8. Mean relative weight and standard error values by size class for Cherokee Reservoir largemouth bass collected during the 2008 electrofishing sample.

Size Class	Mean Wr	Std. Error	N
6	86.3	6.7	3
7	83.9	1.6	13
8	88.6	1.3	19
9	88.1	2.2	9
10	88.5	1.4	19
11	92.1	1.7	19
12	94.1	1.5	26
13	93.4	1.1	22
14	94.7	1.9	21
15	92.5	1.5	21
16	96.4	1.3	16
17	90.2	1.9	15
18	93.6	1.0	7
19	97.2	2.2	2
20	96.7	9.1	2
		Total Catch	214

Table 9. Geometric means of Region IV's shad gill net catches from 2001 to 2008.

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
Norris	2008	1.6	3.2	1.3
Cherokee	2008	0.4	4.7	1.7
Douglas	2008	0.0	42.2	19.5
Boone	2008	7.3	5.0	8.9

Table 10. Length range and weighted mean length by age of hybrid striped bass from Cherokee Reservoir's 2008 winter gill net sample.

AGE	Minimum length at capture	Weighted mean length at capture	Maximum length at capture	N
2	16.5	**18.0**	19.2	15
3	19.8	**20.7**	22.0	19
4	19.5	**20.9**	22.8	20
5	20.9	**23.3**	24.1	18
6	22.2	**23.1**	23.7	8
7	23.7	**24.1**	25.0	3
8	22.6	**23.7**	25.6	8
9	23.2	**23.2**	23.2	1
10	24.9	**24.9**	24.9	1

Table 11. Length range and weighted mean length by age of striped bass from Cherokee Reservoir's 2008 winter gill net sample.

AGE	Minimum length at capture	Weighted mean length at capture	Maximum length at capture	N
2	16.5	**17.2**	18.0	4
3	21.3	**23.2**	24.4	9

Table 12. Length range and weighted mean length by age of walleye from Cherokee Reservoir's 2008 winter gill net sample.

AGE	Minimum length at capture	Weighted mean length at capture	Maximum length at capture	N
2	17.2	**17.2**	17.2	1
5	21.3	**21.6**	21.9	2

Table 13. Cherokee Reservoir fish habitat enhancement summary for 2008.

	NEW SITES			RENOVATED SITES			EXPANDED SITES		
LOCATION	NUMBER	UNITS	ACRES	NUMBER	UNITS	ACRES	NUMBER	UNITS	ACRES
Poor Valley Creek Mile 0.25 R*				1	75	1.50			
Poor Valley Creek Mile 0.27 R*				1	75	1.50			
Poor Valley Creek Mile 0.75 L*				1	75	1.50			
Poor Valley Creek Mile 0.80 L*				1	75	1.50			
Poor Valley Creek Mile 0.90 R*				1	75	1.50			
Poor Valley Creek Mile 0.85 L*				1	75	1.50			
Poor Valley Creek Mile 1.00 R*				1	50	1.50			
Poor Valley Creek Mile 1.10 R*				1	50	1.50			
				8	550	12.00			

*Christmas trees with block

Table 14. Summary of July 2008 Cherokee Reservoir water quality parameters at Holston River Mile 55.

Depth (ft)	Temp (F)	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	76.6	283	8.8	7.1	H55	6.6	718	7/1/2008
3	76.6	283	8.7	7.0				
7	76.6	283	8.7	7.1				
10	76.6	283	8.6	7.0				
13	76.6	283	8.6	7.1				
16	76.6	284	8.6	7.0				
20	74.8	297	8.4	4.3				
23	73.2	301	8.2	3.4				
26	70.7	309	8.1	1.4				
30	67.6	315	8.1	0.9				
33	66.6	315	8.0	1.1				
36	65.7	317	7.9	1.1				
39	65.1	317	7.9	1.2				
43	63.0	319	7.9	1.5				
46	61.0	321	7.9	1.8				
49	59.7	322	7.9	2.1				
52	58.6	323	7.8	2.3				
56	57.2	325	7.8	2.6				
59	55.8	326	7.8	2.6				
62	55.0	328	7.8	2.6				
66	54.0	328	7.8	2.6				
69	53.6	330	7.8	2.2				
72	53.1	332	7.8	2.0				
75	52.7	333	7.7	1.9				
79	52.2	333	7.7	1.8				
82	52.2	333	7.7	1.8				
85	52.0	333	7.7	1.8				
89	52.0	332	7.7	1.9				
92	51.6	333	7.7	1.9				
95	51.6	332	7.7	2.0				
98	51.4	332	7.7	2.0				

Table 15. Summary of July 2008 Cherokee Reservoir water quality parameters at Holston River Mile 66.

Depth (ft)	Temp (F)	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	79.2	276	8.1	7.5	H66	6.6	835	7/1/2008
3	79.2	276	8.2	7.3				
7	79.2	276	8.2	7.3				
10	79.2	276	8.2	7.4				
13	79.2	276	8.2	7.4				
16	79.2	276	8.2	7.3				
20	79.2	276	8.2	7.4				
23	79.2	277	8.2	7.3				
26	73.6	313	7.9	1.8				
30	67.3	322	7.8	1.2				
33	64.2	325	7.8	1.1				
36	61.9	324	7.7	0.9				
39	60.4	326	7.7	1.0				
43	59.7	327	7.7	1.0				
46	57.7	331	7.6	1.0				
49	57.4	331	7.6	1.0				
52	56.1	333	7.6	0.9				
56	54.7	337	7.6	0.7				
59	54.5	339	7.5	0.6				
62	53.8	338	7.5	0.6				
66	53.4	338	7.5	0.6				
69	53.1	340	7.5	0.5				
72	52.7	340	7.5	0.4				
75	52.0	340	7.5	0.4				
79	51.8	338	7.5	0.5				
82	51.8	337	7.5	0.5				
85	51.8	337	7.5	0.5				
89	51.6	336	7.4	0.5				
92	51.4	336	7.4	0.4				
95	51.3	336	7.4	0.4				
98	51.3	336	7.4	0.4				

Table 16. Summary of July 2008 Cherokee Reservoir water quality parameters at Holston River Mile 75.

Depth (ft)	Temp (F)	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	80.4	305	7.9	7.3	H75	5.9	924	7/1/2008
3	80.4	306	8.0	7.2				
7	80.4	306	8.0	7.2				
10	80.2	304	8.0	6.9				
13	80.2	304	8.0	6.5				
16	80.1	304	8.0	6.2				
20	80.1	305	8.0	6.1				
23	80.1	305	8.0	5.7				
26	77.9	342	7.8	1.3				
30	73.4	352	7.6	0.3				
33	68.5	346	7.6	0.2				
36	66.0	344	7.6	0.2				
39	63.7	340	7.5	0.2				
43	62.1	338	7.5	0.2				
46	59.5	339	7.5	0.2				
49	56.8	343	7.4	0.2				
52	55.0	350	7.4	0.2				
56	54.5	346	7.4	0.2				
59	54.5	346	7.4	0.2				
62	54.0	345	7.4	0.2				
66	53.4	345	7.4	0.2				
69	52.9	344	7.3	0.1				
72	52.7	344	7.3	0.1				
75	52.5	343	7.3	0.1				
79	52.3	343	7.3	0.1				

Table 17. Summary of July 2008 Cherokee Reservoir water quality parameters at Holston River Mile 83.

Depth (ft)	Temp (F)	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	80.6	331	7.9	7.0	H83	6.6	1011	7/1/2008
3	80.6	332	7.9	7.0				
7	80.2	332	7.9	6.7				
10	80.2	332	7.9	6.6				
13	80.2	334	7.9	6.7				
16	80.2	334	7.9	6.5				
20	80.2	334	7.9	6.5				
23	80.1	335	7.9	5.9				
26	80.1	335	7.9	6.1				
30	79.9	335	7.8	5.2				
33	77.4	348	7.7	1.2				
36	72.7	355	7.5	0.3				
39	69.1	356	7.5	0.2				
43	65.5	352	7.4	0.2				
46	63.1	352	7.4	0.2				
49	61.2	350	7.4	0.2				
52	60.1	347	7.3	0.2				
56	58.3	348	7.3	0.2				
59	55.6	347	7.3	0.2				
62	54.3	347	7.3	0.2				

Table 18. Summary of August 2008 Cherokee Reservoir water quality parameters at Holston River Mile 55.

Depth (ft)	Temp (F)	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	83.5	289	8.4	7.4	H55	9.2	700	8/5/2008
3	83.7	288	8.4	7.2				
7	83.7	289	8.4	6.8				
10	83.7	289	8.5	6.5				
13	83.5	290	8.5	6.3				
16	82.9	291	8.5	6.1				
20	82.0	300	8.5	5.7				
23	80.2	297	8.3	3.6				
26	78.4	299	8.2	1.2				
30	76.6	303	8.1	0.9				
33	73.8	312	8.0	1.0				
36	71.1	317	8.0	0.7				
39	70.0	315	7.9	1.5				
43	67.8	316	7.9	1.6				
46	67.3	317	7.9	1.6				
49	65.7	319	7.9	1.7				
52	64.6	320	7.8	1.1				
56	63.7	323	7.8	0.5				
59	62.6	325	7.8	0.5				
62	61.7	327	7.8	0.4				
66	60.8	329	7.8	0.4				
69	59.7	330	7.8	0.4				
72	59.0	332	7.8	0.4				
75	58.3	333	7.7	0.3				
79	57.2	336	7.8	0.3				
82	56.5	338	7.7	0.3				
85	56.1	339	7.7	0.3				
89	55.4	341	7.7	0.3				
92	54.9	343	7.7	0.2				
95	54.7	343	7.7	0.2				
98	54.1	345	7.7	0.2				

Table 19. Summary of August 2008 Cherokee Reservoir water quality parameters at Holston River Mile 66.

Depth (ft)	Temp (F)	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	84.0	303	8.5	6.9	H66	8.5	750	8/5/2008
3	84.0	304	8.5	6.9				
7	84.0	304	8.5	6.5				
10	84.0	304	8.5	6.0				
13	84.0	304	8.5	6.0				
16	83.5	306	8.5	5.8				
20	82.4	313	8.4	3.6				
23	81.0	317	8.3	1.6				
26	79.0	319	8.1	0.4				
30	76.1	316	8.1	0.2				
33	73.8	313	8.1	0.2				
36	72.7	315	8.0	0.2				
39	70.3	318	8.0	0.2				
43	69.3	321	8.0	0.2				
46	67.8	321	7.9	0.2				
49	66.6	324	7.9	0.2				
52	65.1	325	7.9	0.2				
56	64.2	325	7.9	0.2				
59	63.3	327	7.9	0.2				
62	62.8	328	7.9	0.2				
66	61.5	330	7.9	0.2				
69	60.4	333	7.9	0.2				
72	59.7	337	7.8	0.2				
75	58.5	340	7.8	0.2				
79	57.6	346	7.8	0.2				
82	57.0	350	7.8	0.2				
85	56.5	352	7.8	0.2				
89	55.8	352	7.8	0.2				
92	54.9	353	7.8	0.2				
95	54.0	352	7.8	0.2				
98	53.4	351	7.7	0.2				

Table 20. Summary of August 2008 Cherokee Reservoir water quality parameters at Holston River Mile 75.

Depth (ft)	Temp (F)	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	84.4	307	8.4	7.6	H75	6.6	826	8/5/2008
3	84.4	308	8.5	7.6				
7	84.4	307	8.5	7.6				
10	84.4	307	8.5	7.5				
13	84.4	308	8.5	6.8				
16	83.1	315	8.4	3.1				
20	82.2	319	8.2	1.8				
23	81.3	323	8.1	0.9				
26	80.4	330	8.1	0.2				
30	77.5	344	8.0	0.2				
33	74.1	349	8.0	0.2				
36	71.1	342	8.0	0.2				
39	69.1	333	8.0	0.2				
43	67.8	332	7.9	0.2				
46	66.6	331	7.9	0.2				
49	65.7	332	7.9	0.2				
52	64.0	336	7.9	0.2				
56	63.3	340	7.9	0.1				
59	62.2	344	7.9	0.1				
62	61.5	349	7.8	0.1				
66	61.2	353	7.8	0.1				
69	59.7	361	7.8	0.1				
72	58.3	361	7.8	0.1				

Table 21. Summary of August 2008 Cherokee Reservoir water quality parameters at Holston River Mile 83.

Depth (ft)	Temp (F)	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	84.9	301	8.6	7.8	H83	4.9	920	8/5/2008
3	84.9	301	8.6	8.0				
7	84.7	301	8.6	8.2				
10	84.7	301	8.6	8.8				
13	84.4	305	8.6	8.0				
16	83.7	313	8.5	6.3				
20	83.1	320	8.3	5.8				
23	82.6	323	8.2	5.3				
26	81.5	330	8.1	4.7				
30	78.6	341	8.0	4.6				
33	73.9	357	7.9	4.8				
36	69.4	363	7.8	5.0				
39	67.6	362	7.8	5.8				
43	65.8	364	7.8	5.4				
46	64.8	362	7.7	5.2				
49	63.3	363	7.7	5.1				
52	62.8	365	7.7	5.0				
56	62.1	369	7.6	5.0				

Table 22. Summary of September 2008 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	321	8.4	7.7	H55	9.5	730	9/4/2008
3	81.3	322	8.3	7.7				
7	81.3	322	8.3	7.7				
10	81.3	322	8.3	7.7				
13	80.8	320	8.3	7.6				
16	80.2	322	8.3	6.8				
20	80.1	322	8.3	6.9				
23	79.7	322	8.2	6.7				
26	79.2	321	8.2	6.3				
30	78.4	322	8.1	5.0				
33	77.9	326	8.0	4.1				
36	77.2	326	7.9	3.1				
39	74.5	329	7.8	1.1				
43	71.8	332	7.8	0.2				
46	70.3	333	7.7	0.2				
49	69.1	333	7.7	0.2				
52	68.2	333	7.7	0.2				
56	67.5	334	7.7	0.2				
59	66.6	336	7.7	0.2				
62	66.0	337	7.6	0.2				
66	65.3	337	7.6	0.1				
69	64.8	339	7.6	0.1				
72	64.2	340	7.6	0.1				
75	63.3	341	7.6	0.1				
79	62.4	346	7.5	0.1				
82	62.2	346	7.5	0.1				
85	61.9	345	7.5	0.1				
89	61.2	351	7.5	0.1				
92	60.4	356	7.5	0.1				
95	59.4	361	7.5	0.1				
98	58.5	36	7.4	0.1				

Table 23. Summary of September 2008 Cherokee Reservoir water quality parameters at Holston River Mile 66.

Depth (ft)	Temp (F)	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	79.9	324	8.3	7.8	H66	7.2	850	9/4/2008
3	79.9	324	8.3	7.7				
7	79.9	324	8.4	7.2				
10	79.9	324	8.4	7.0				
13	79.7	324	8.4	7.2				
16	79.2	325	8.3	6.3				
20	78.8	324	8.3	6.3				
23	78.6	324	8.2	5.8				
26	78.4	324	8.2	5.6				
30	78.1	326	8.1	4.5				
33	77.9	326	8.0	4.2				
36	77.4	327	8.0	3.5				
39	76.8	328	7.9	2.5				
43	74.7	331	7.8	0.4				
46	71.2	334	7.7	0.2				
49	69.8	337	7.7	0.2				
52	68.2	341	7.7	0.2				
56	67.8	372	7.6	0.2				
59	66.9	345	7.6	0.2				
62	66.2	348	7.6	0.1				
66	65.5	352	7.6	0.1				
69	65.1	355	7.5	0.1				
72	64.6	359	7.5	0.1				
75	63.5	365	7.5	0.1				
79	63.1	369	7.5	0.1				
82	62.8	372	7.5	0.1				
85	62.4	375	7.4	0.1				
89	61.9	378	7.4	0.1				
92	60.8	384	7.4	0.1				
95	59.9	385	7.4	0.1				

Table 24. Summary of September 2008 Cherokee Reservoir water quality parameters at Holston River Mile 75.

Depth (ft)	Temp (F)	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	80.4	320	8.4	8.0	H75	5.9	930	9/4/2008
3	80.4	321	8.4	8.2				
7	80.2	321	8.4	8.1				
10	80.1	322	8.4	8.0				
13	79.5	327	8.3	5.5				
16	78.8	329	8.1	5.1				
20	78.4	329	8.0	4.0				
23	78.1	329	7.9	4.0				
26	77.9	329	7.9	4.2				
30	77.7	329	7.9	4.2				
33	77.7	330	7.8	3.7				
36	77.2	331	7.8	2.4				
39	76.3	334	7.7	2.1				
43	74.3	341	7.6	2.1				
46	72.1	355	7.6	2.1				
49	71.6	361	7.6	2.0				
52	69.6	371	7.5	2.0				
56	68.5	373	7.5	2.0				
59	67.6	381	7.4	1.8				
62	66.9	389	7.4	1.8				
66	65.8	398	7.3	1.7				

Table 25. Cherokee Reservoir water levels for 2008. (TVA)

ELEVATION	MONTH	DAY	ELEVATION	MONTH	DAY	ELEVATION	MONTH	DAY
1040.66	JANUARY	1	1047.89	FEBRUARY	24	1060.40	APRIL	19
1040.76	JANUARY	2	1047.84	FEBRUARY	25	1060.46	APRIL	20
1040.87	JANUARY	3	1047.75	FEBRUARY	26	1060.44	APRIL	21
1040.96	JANUARY	4	1047.71	FEBRUARY	27	1060.40	APRIL	22
1041.06	JANUARY	5	1047.65	FEBRUARY	28	1060.31	APRIL	23
1041.14	JANUARY	6	1047.71	MARCH	1	1060.23	APRIL	24
1041.24	JANUARY	7	1047.82	MARCH	2	1060.18	APRIL	25
1041.32	JANUARY	8	1047.93	MARCH	3	1060.19	APRIL	26
1041.45	JANUARY	9	1048.29	MARCH	4	1060.24	APRIL	27
1041.81	JANUARY	10	1049.12	MARCH	5	1060.35	APRIL	28
1042.44	JANUARY	11	1050.12	MARCH	6	1060.47	APRIL	29
1043.03	JANUARY	12	1050.57	MARCH	7	1060.65	APRIL	30
1043.42	JANUARY	13	1050.93	MARCH	8	1060.82	MAY	1
1043.64	JANUARY	14	1051.20	MARCH	9	1060.88	MAY	2
1043.84	JANUARY	15	1051.42	MARCH	10	1061.02	MAY	3
1044.01	JANUARY	16	1051.59	MARCH	11	1061.15	MAY	4
1044.11	JANUARY	17	1051.75	MARCH	12	1061.18	MAY	5
1044.25	JANUARY	18	1051.89	MARCH	13	1061.27	MAY	6
1044.36	JANUARY	19	1052.00	MARCH	14	1061.38	MAY	7
1044.50	JANUARY	20	1052.22	MARCH	15	1061.47	MAY	8
1044.59	JANUARY	21	1052.54	MARCH	16	1061.54	MAY	9
1044.70	JANUARY	22	1052.82	MARCH	17	1061.63	MAY	10
1044.80	JANUARY	23	1053.03	MARCH	18	1061.69	MAY	11
1044.91	JANUARY	24	1053.39	MARCH	19	1061.77	MAY	12
1044.98	JANUARY	25	1053.87	MARCH	20	1061.86	MAY	13
1045.07	JANUARY	26	1054.27	MARCH	21	1061.95	MAY	14
1045.18	JANUARY	27	1054.60	MARCH	22	1062.11	MAY	15
1045.17	JANUARY	28	1054.85	MARCH	23	1062.23	MAY	16
1045.14	JANUARY	29	1055.05	MARCH	24	1062.32	MAY	17
1045.21	JANUARY	30	1055.22	MARCH	25	1062.44	MAY	18
1045.25	JANUARY	31	1055.40	MARCH	26	1062.54	MAY	19
1045.37	FEBRUARY	1	1055.56	MARCH	27	1062.61	MAY	20
1045.44	FEBRUARY	2	1055.72	MARCH	28	1062.69	MAY	21
1045.66	FEBRUARY	3	1055.90	MARCH	29	1062.79	MAY	22
1046.09	FEBRUARY	4	1056.03	MARCH	30	1062.88	MAY	23
1046.48	FEBRUARY	5	1056.13	MARCH	31	1062.96	MAY	24
1046.95	FEBRUARY	6	1056.25	APRIL	1	1063.03	MAY	25
1047.48	FEBRUARY	7	1056.41	APRIL	2	1063.10	MAY	26
1047.87	FEBRUARY	8	1056.45	APRIL	3	1063.22	MAY	27
1048.14	FEBRUARY	9	1056.77	APRIL	4	1063.40	MAY	28
1048.35	FEBRUARY	10	1057.16	APRIL	5	1063.46	MAY	29
1047.99	FEBRUARY	11	1057.94	APRIL	6	1063.55	MAY	30
1047.63	FEBRUARY	12	1058.56	APRIL	7	1063.65	MAY	31
1047.30	FEBRUARY	13	1059.02	APRIL	8	1063.75	JUNE	1
1047.12	FEBRUARY	14	1059.33	APRIL	9	1063.87	JUNE	2
1047.00	FEBRUARY	15	1059.54	APRIL	10	1063.97	JUNE	3
1047.14	FEBRUARY	16	1059.74	APRIL	11	1064.12	JUNE	4
1047.27	FEBRUARY	17	1059.84	APRIL	12	1064.22	JUNE	5
1047.40	FEBRUARY	18	1059.99	APRIL	13	1064.33	JUNE	6
1047.18	FEBRUARY	19	1060.11	APRIL	14	1064.44	JUNE	7
1047.36	FEBRUARY	20	1060.14	APRIL	15	1064.54	JUNE	8
1047.50	FEBRUARY	21	1060.19	APRIL	16	1064.55	JUNE	9
1047.68	FEBRUARY	22	1060.25	APRIL	17	1064.54	JUNE	10
1047.78	FEBRUARY	23	1060.29	APRIL	18	1064.55	JUNE	11

Table 26. Cherokee Reservoir water levels for 2008. (TVA)

ELEVATION	MONTH	DAY	ELEVATION	MONTH	DAY	ELEVATION	MONTH	DAY
1064.55	JUNE	12	1058.22	AUGUST	5	1050.55	SEPTEMBER	28
1064.58	JUNE	13	1057.81	AUGUST	6	1050.30	SEPTEMBER	29
1064.64	JUNE	14	1057.40	AUGUST	7	1049.98	SEPTEMBER	30
1064.65	JUNE	15	1056.95	AUGUST	8	1049.79	OCTOBER	1
1064.58	JUNE	16	1056.63	AUGUST	9	1049.63	OCTOBER	2
1064.50	JUNE	17	1056.40	AUGUST	10	1049.49	OCTOBER	3
1064.47	JUNE	18	1056.07	AUGUST	11	1049.41	OCTOBER	4
1064.43	JUNE	19	1055.68	AUGUST	12	1049.32	OCTOBER	5
1064.35	JUNE	20	1055.33	AUGUST	13	1049.10	OCTOBER	6
1064.29	JUNE	21	1054.89	AUGUST	14	1048.89	OCTOBER	7
1064.25	JUNE	22	1054.41	AUGUST	15	1048.69	OCTOBER	8
1064.07	JUNE	23	1054.01	AUGUST	16	1048.52	OCTOBER	9
1063.89	JUNE	24	1053.89	AUGUST	17	1048.37	OCTOBER	10
1063.71	JUNE	25	1053.53	AUGUST	18	1048.36	OCTOBER	11
1063.53	JUNE	26	1053.16	AUGUST	19	1048.33	OCTOBER	12
1063.36	JUNE	27	1052.77	AUGUST	20	1048.21	OCTOBER	13
1063.21	JUNE	28	1052.36	AUGUST	21	1048.13	OCTOBER	14
1063.07	JUNE	29	1051.94	AUGUST	22	1048.05	OCTOBER	15
1062.85	JUNE	30	1051.72	AUGUST	23	1047.96	OCTOBER	16
1062.70	JULY	1	1051.52	AUGUST	24	1047.90	OCTOBER	17
1062.58	JULY	2	1051.11	AUGUST	25	1047.90	OCTOBER	18
1062.47	JULY	3	1050.79	AUGUST	26	1047.89	OCTOBER	19
1062.40	JULY	4	1050.65	AUGUST	27	1047.82	OCTOBER	20
1062.35	JULY	5	1050.55	AUGUST	28	1047.67	OCTOBER	21
1062.25	JULY	6	1050.67	AUGUST	29	1047.54	OCTOBER	22
1062.06	JULY	7	1050.79	AUGUST	30	1047.38	OCTOBER	23
1061.90	JULY	8	1050.90	AUGUST	31	1047.19	OCTOBER	24
1061.79	JULY	9	1050.93	SEPTEMBER	1	1047.20	OCTOBER	25
1061.73	JULY	10	1050.91	SEPTEMBER	2	1047.24	OCTOBER	26
1061.57	JULY	11	1050.87	SEPTEMBER	3	1047.21	OCTOBER	27
1061.50	JULY	12	1050.86	SEPTEMBER	4	1047.18	OCTOBER	28
1061.42	JULY	13	1050.84	SEPTEMBER	5	1047.16	OCTOBER	29
1061.23	JULY	14	1050.82	SEPTEMBER	6	1047.17	OCTOBER	30
1061.10	JULY	15	1050.82	SEPTEMBER	7	1047.15	OCTOBER	31
1061.06	JULY	16	1050.87	SEPTEMBER	8	1047.16	NOVEMBER	1
1060.95	JULY	17	1050.98	SEPTEMBER	9	1047.19	NOVEMBER	2
1060.85	JULY	18	1051.02	SEPTEMBER	10	1047.10	NOVEMBER	3
1060.83	JULY	19	1051.10	SEPTEMBER	11	1047.08	NOVEMBER	4
1060.84	JULY	20	1051.15	SEPTEMBER	12	1047.05	NOVEMBER	5
1060.64	JULY	21	1051.15	SEPTEMBER	13	1047.03	NOVEMBER	6
1060.47	JULY	22	1051.18	SEPTEMBER	14	1046.98	NOVEMBER	7
1060.35	JULY	23	1051.19	SEPTEMBER	15	1046.99	NOVEMBER	8
1060.16	JULY	24	1051.21	SEPTEMBER	16	1046.97	NOVEMBER	9
1059.97	JULY	25	1051.14	SEPTEMBER	17	1046.93	NOVEMBER	10
1059.84	JULY	26	1051.09	SEPTEMBER	18	1046.93	NOVEMBER	11
1059.71	JULY	27	1051.06	SEPTEMBER	19	1046.90	NOVEMBER	12
1059.42	JULY	28	1051.03	SEPTEMBER	20	1046.96	NOVEMBER	13
1059.33	JULY	29	1051.04	SEPTEMBER	21	1046.95	NOVEMBER	14
1059.31	JULY	30	1050.95	SEPTEMBER	22	1046.97	NOVEMBER	15
1059.31	JULY	31	1050.87	SEPTEMBER	23	1047.05	NOVEMBER	16
1059.12	AUGUST	1	1050.78	SEPTEMBER	24	1047.04	NOVEMBER	17
1059.04	AUGUST	2	1050.70	SEPTEMBER	25	1047.05	NOVEMBER	18
1058.92	AUGUST	3	1050.61	SEPTEMBER	26	1047.06	NOVEMBER	19
1058.56	AUGUST	4	1050.58	SEPTEMBER	27	1047.08	NOVEMBER	20

Table 27. Cherokee Reservoir water levels for 2008. (TVA)

ELEVATION	MONTH	DAY
1047.11	NOVEMBER	21
1047.15	NOVEMBER	22
1047.14	NOVEMBER	23
1047.16	NOVEMBER	24
1047.20	NOVEMBER	25
1046.99	NOVEMBER	26
1047.02	NOVEMBER	27
1047.06	NOVEMBER	28
1047.11	NOVEMBER	29
1047.19	NOVEMBER	30
1047.24	DECEMBER	1
1047.29	DECEMBER	2
1047.33	DECEMBER	3
1047.33	DECEMBER	4
1047.08	DECEMBER	5
1046.82	DECEMBER	6
1046.86	DECEMBER	7
1046.69	DECEMBER	8
1046.53	DECEMBER	9
1046.58	DECEMBER	10
1046.95	DECEMBER	11
1047.11	DECEMBER	12
1047.36	DECEMBER	13
1047.56	DECEMBER	14
1047.18	DECEMBER	15
1046.79	DECEMBER	16
1046.49	DECEMBER	17
1046.15	DECEMBER	18
1046.03	DECEMBER	19
1046.08	DECEMBER	20
1046.18	DECEMBER	21
1046.12	DECEMBER	22
1046.03	DECEMBER	23
1045.96	DECEMBER	24
1045.90	DECEMBER	25
1045.85	DECEMBER	26
1045.77	DECEMBER	27
1045.70	DECEMBER	28
1045.54	DECEMBER	29
1045.47	DECEMBER	30
1045.52	DECEMBER	31

Table 28. Summary of creel results for Cherokee Reservoir 1998-2008.

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	1998	4.5	21,705	4,635													
Species	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							
	2008	4.6	18,608	3,611	$12,250		0.55		0.25	37							
Any(All)	1998	42.1	204,865	43,750							157,447	20,145		319			
Blackbass	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			
	2008	0.2	702	136	$0	125,247	0.63	1,873	0.42	1	158,397	3,249		71			
Any(All)	1998	10.9	52,991	11,316							82,802	19,035		341			
Crappie	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			
	2008	20.5	83,486	15,851	$35,160	63,926	1.17	29,571	0.52	289	66,143	30,065		610			
Any(All)	1998	1.8	8,558	1,828							36,973	20,268		433			
Sunfish	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			
	2008	1.1	4,361	857	$3,170	5,271	1.86	1,834	0.75	9	27,242	12,837		217			
Any(All)	1998	5.9	28,686	6,127							37,134	13,977		221			
Catfish	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			
	2008	9.8	39,978	8,008	$24,060	25,761	0.64	15,334	0.41	86	31,989	18,247		321			
Any(All)	1998		see STRB								87,220	33,287		688			
Temperate	1999		see STRB			46,109		18,305			52,833	19,791		526			
Bass	**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			
	2008					32,044		11,089			56,617	15,619		301			
Large-	1998		not separated prior to 2000 and is the reason lumped into all black bass category								140,246	17,513	2.9	270			
mouth	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	
Bass	**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	
	2008	46.1	188,140	36,086	$707,520	124,971	0.62	1,873	0.01	696	132,930	2,267	2.34	46	98.3	2.8	
Small-	1998		not separated prior to 2000 and is the reason lumped into all black bass category								15,551	2,549	2.32	48			
mouth	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	
Bass	**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	
	2008	0.1	610	118	$1,920	276	0.29	0	0.00	4	15,594	192	1.74	5	98.8	0.2	
Spotted	1998		not separated prior to 2000 and is the reason lumped into all black bass category								83	83	0.30	1			
Bass	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	
	2008	0.0	0	0	$0	0	0.00	0	0.00	0	9,873	790	1.18	20	92.0	1.0	
Striped	1998	30.8	149,598	31,948							73,388	25,331	11.49	478			
Bass	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	
	2008	5.7	23,301	4,427	$73,040	3,159	0.11	1,265	0.05	66	9,936	2,384	8.51	49	76.0	2.9	
Cherokee	2002	0.1	549	105	$450	226	0.32	184	0.32	2	3,503	1,056	4.32	23	69.9	1.1	
Bass	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	
	2008	10.8	44,202	8,513	$114,290	5,271	0.61	9,574	0.21	117	41,298	12,236	6.63	236	70.4	15.0	

Table 29. Summary of creel results for Cherokee Reservoir 1998-2008.

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
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	
	2008	0.2	895	168	$1,060	266	0.47	250	0.47	2	5,383	999	2.89	16	81.4	1.2	
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	
	2008	0.8	3,390	686	$0	623	0.27	140	0.07	7	2,549	279	2.41	6	89.1	0.3	
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	
	2008					2,682		1,443			2,892	1,443	0.64	28	50.1	1.8	
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	
	2008					60,057		27,107			62,064	27,601	0.77	559	55.5	33.9	
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	
	2008					1,187		1,021			1,187	1,021	1.02	23	14.0	1.3	
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	
	2008					5,271		1,834			27,242	12,837	0.26	217	52.9	15.7	
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	
	2008					23,807		13,695			29,558	16,514	1.57	287	44.1	20.3	
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	
	2008					1,739		1,424			1,739	1,424	3.19	27	18.1	1.7	
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	
	2008					0		0			477	94	7.40	3	80.3	0.1	
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
	2008		407,673	78,461	$972,470	253,611		60,312		1,314	347,690	81,533		1,547			407,673

Figures

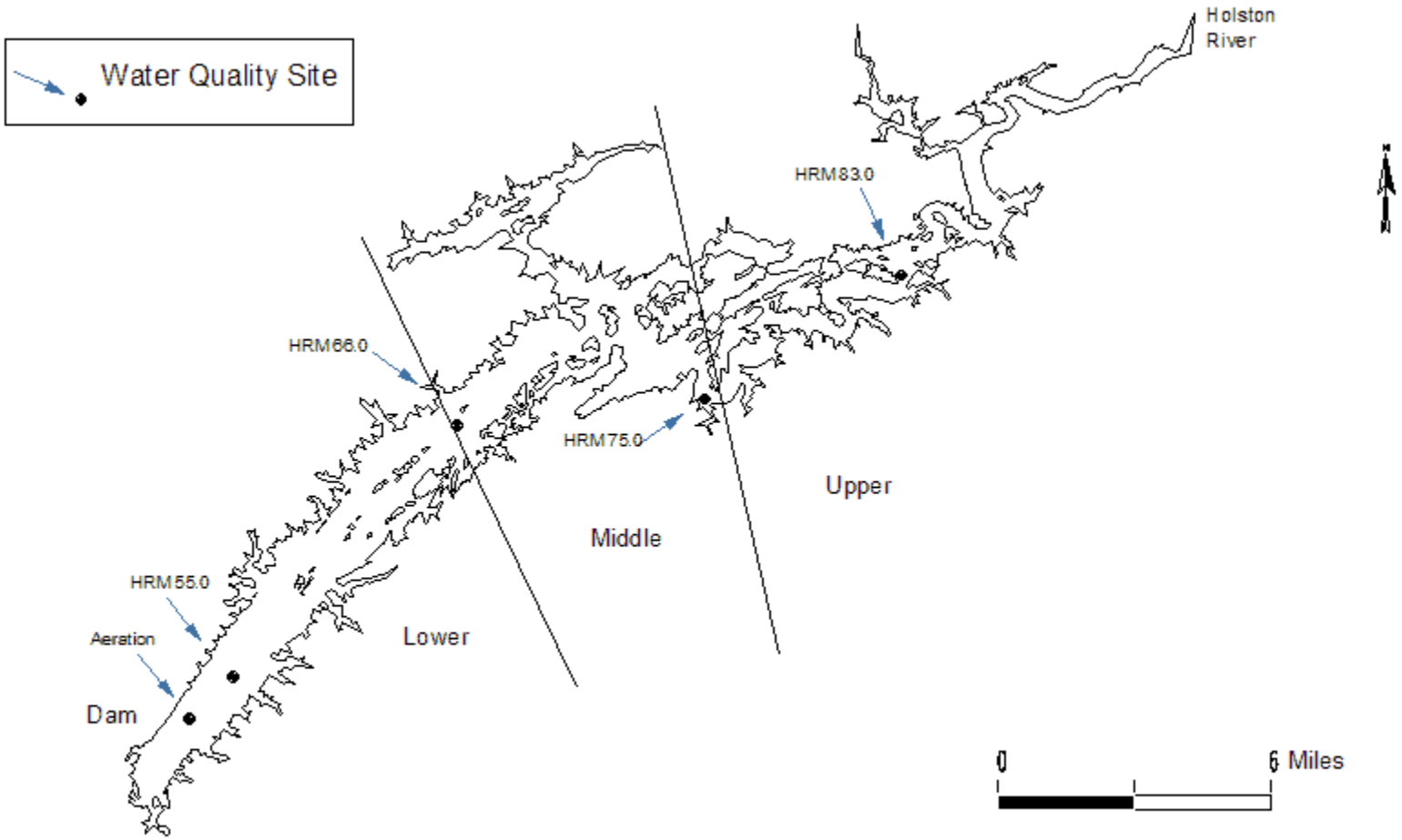


Figure 1. Water quality sites and the upper, middle, and lower section boundaries of Cherokee Reservoir in 2008.

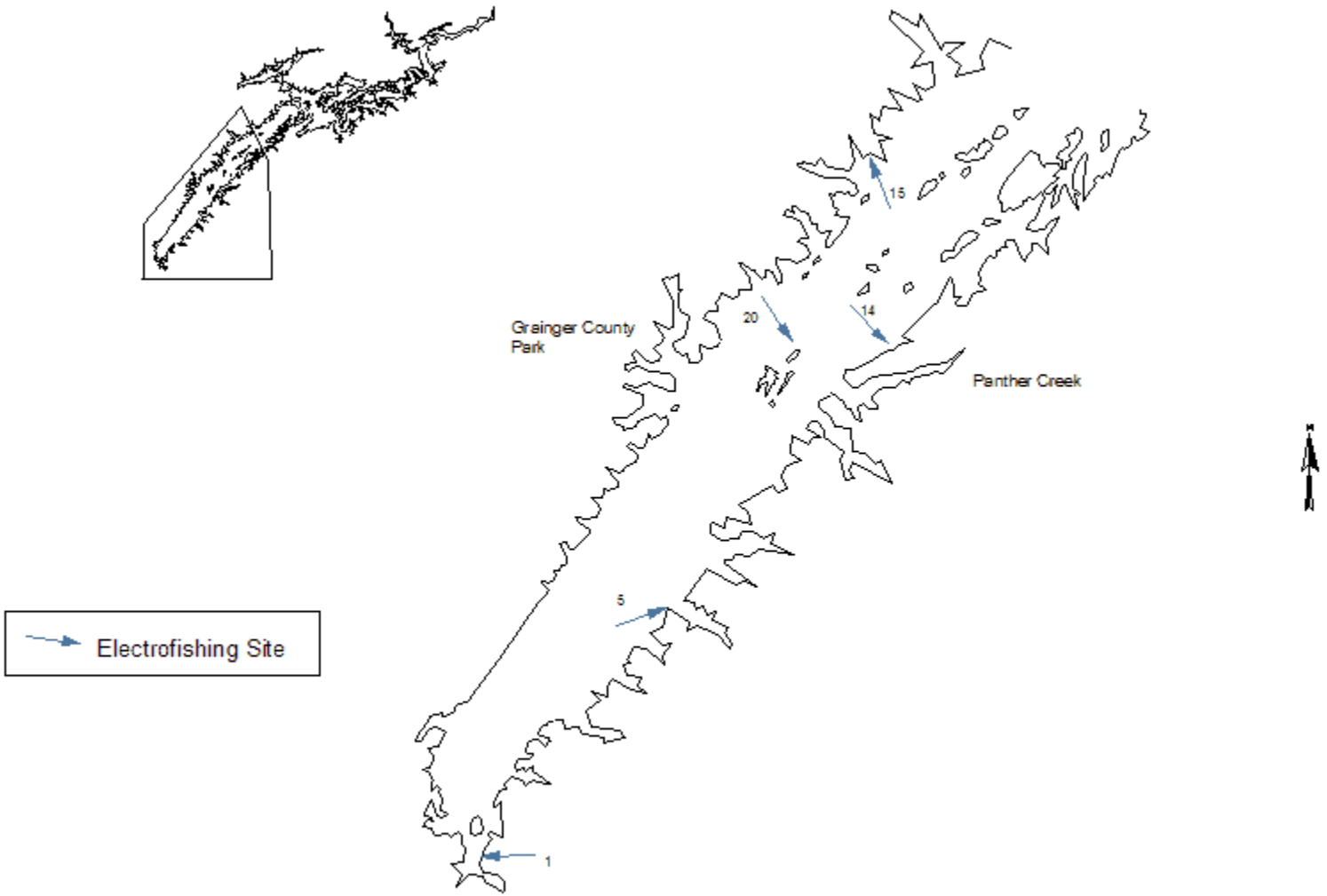


Figure 2. Electrofishing sites in the lower section of Cherokee Reservoir in 2008.

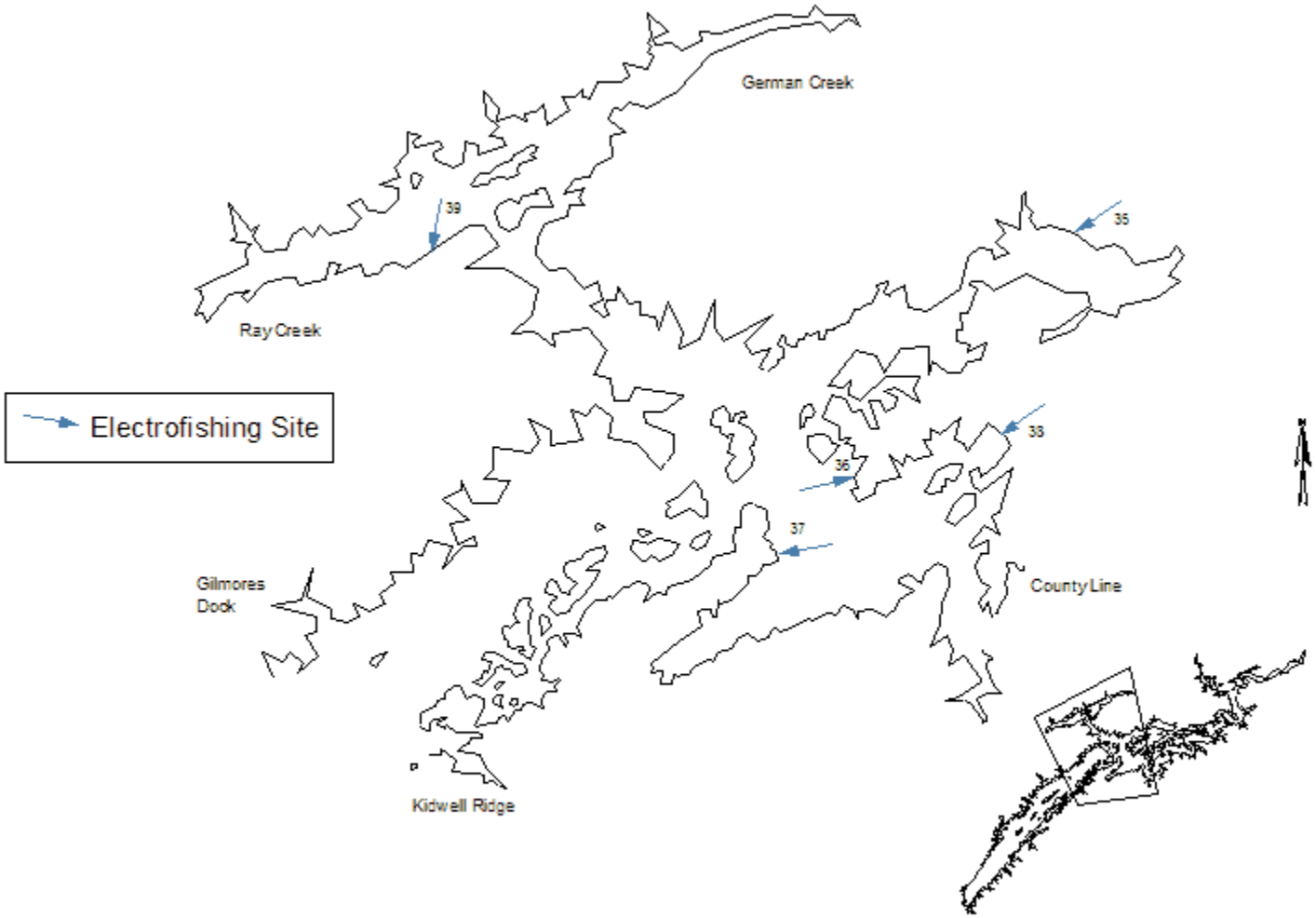


Figure 3. Electrofishing sites in the middle section of Cherokee Reservoir in 2008.

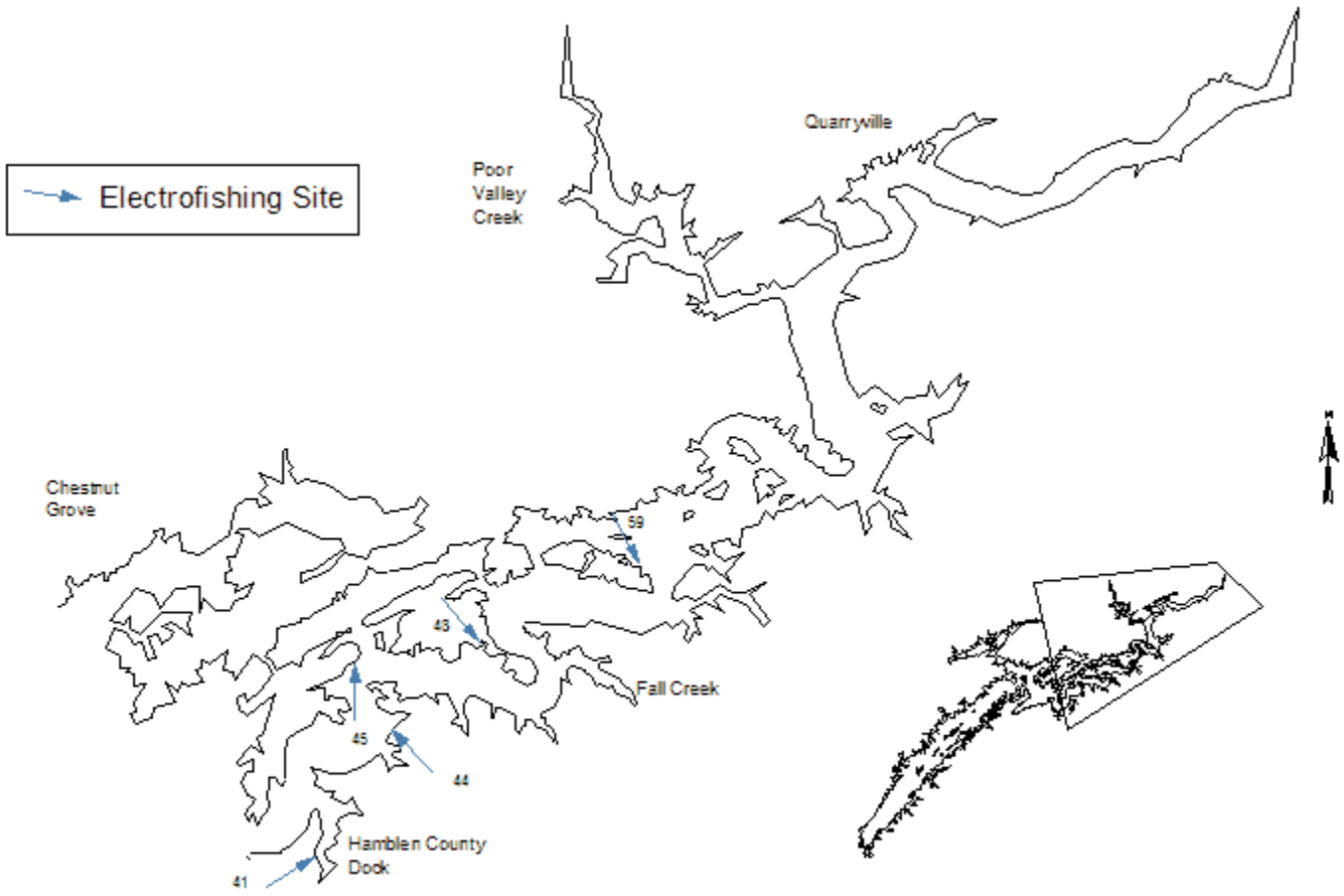


Figure 4. Electrofishing sites in the upper section of Cherokee Reservoir in 2008.

Figure 5. Trap net sites in the lower section of Cherokee Reservoir in 2008.

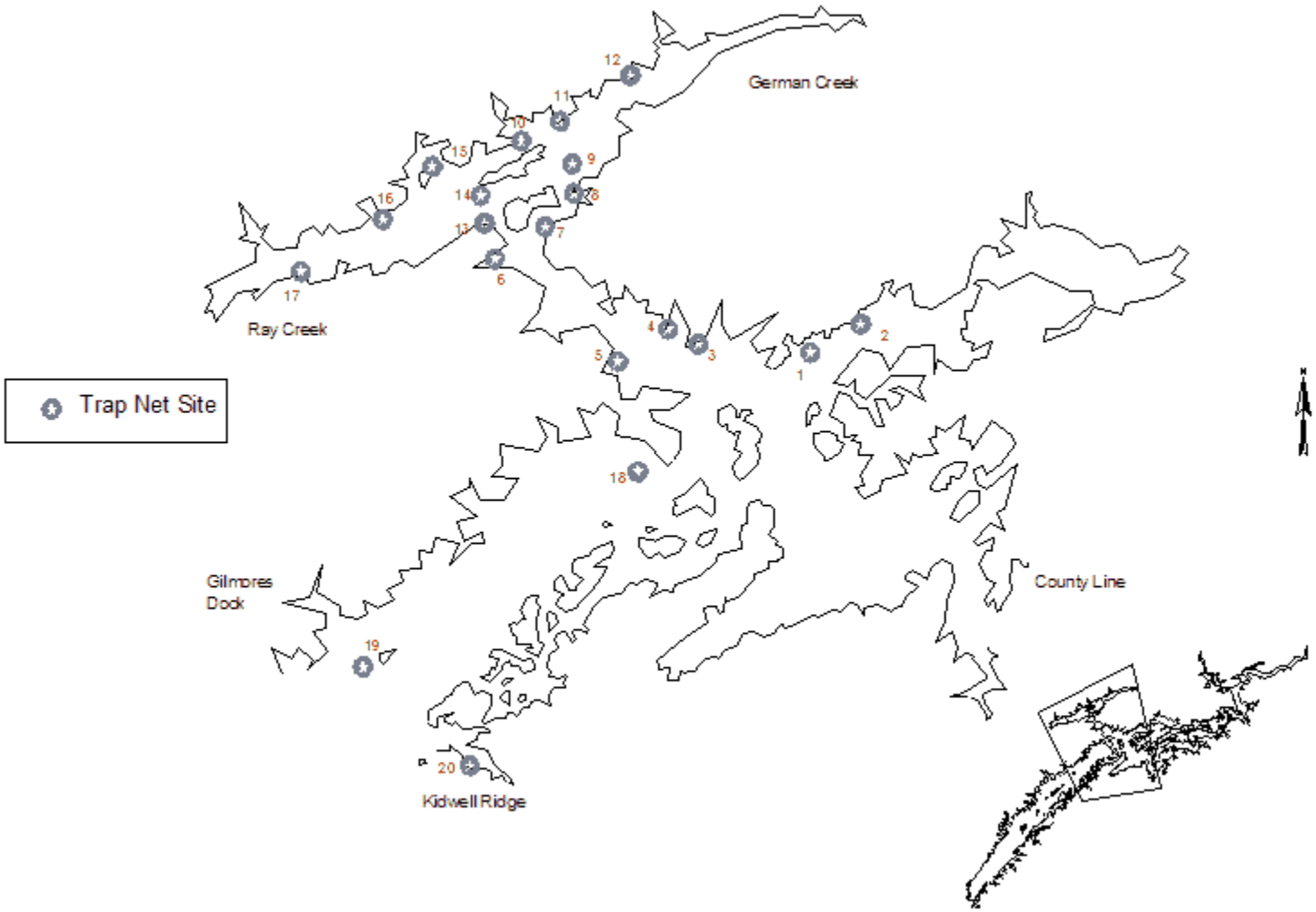


Figure 6. Trap net sites in the middle section of Cherokee Reservoir in 2008.

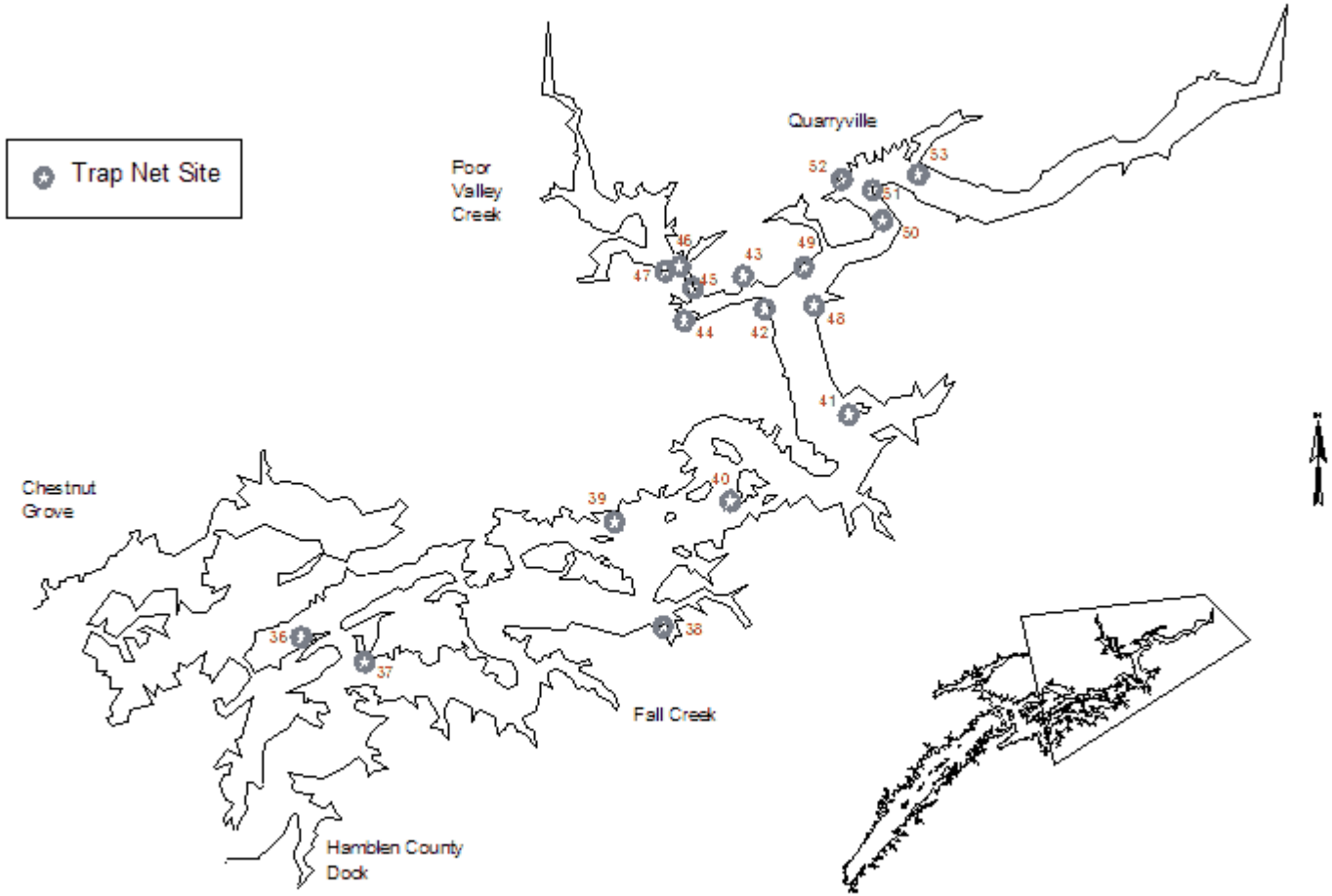


Figure 7. Trap net sites in the upper section of Cherokee Reservoir in 2008.

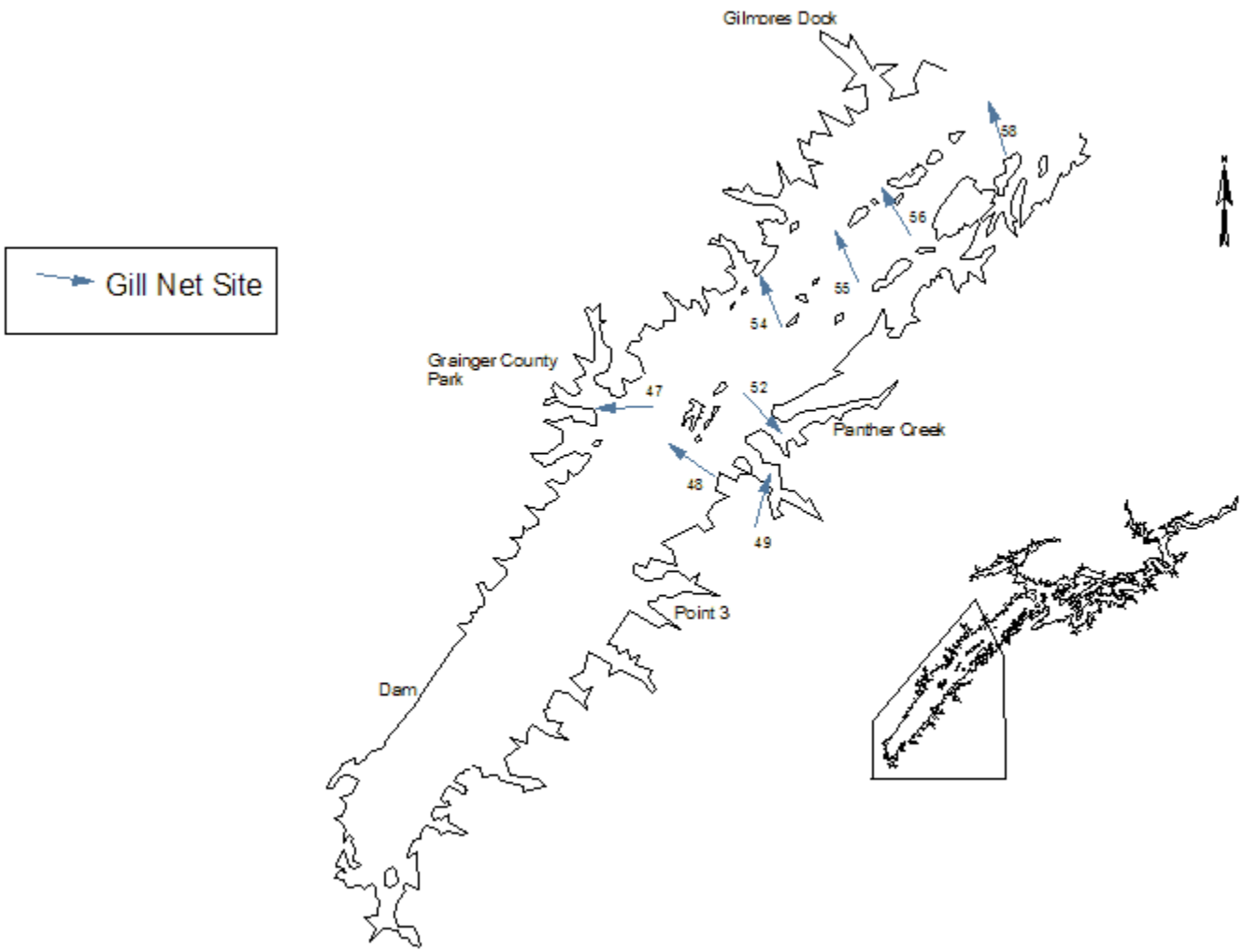


Figure 8. Summer shad gill net sites in the lower section of Cherokee Reservoir in 2008.

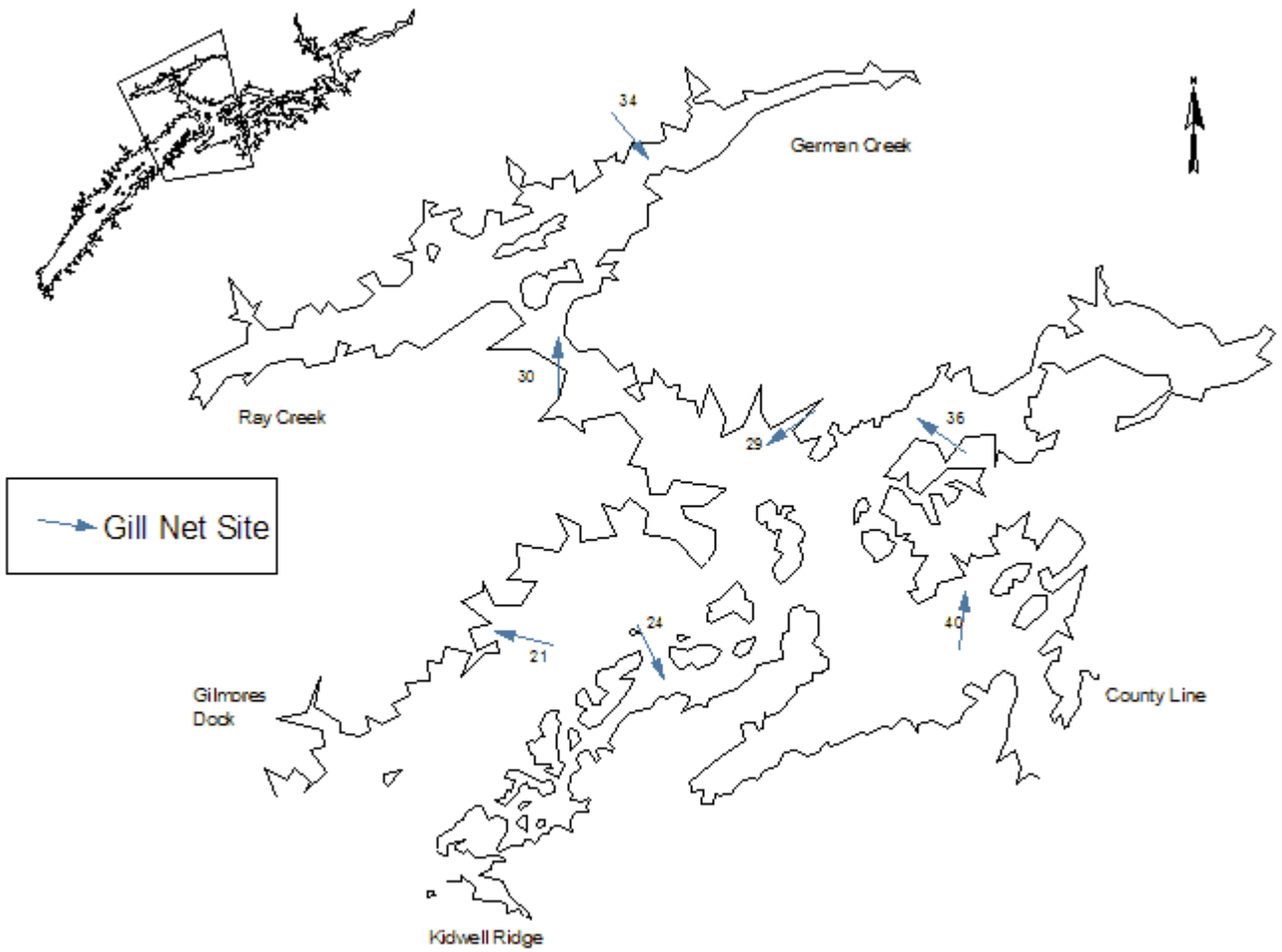


Figure 9. Summer shad gill net sites in the middle section of Cherokee Reservoir in 2008.

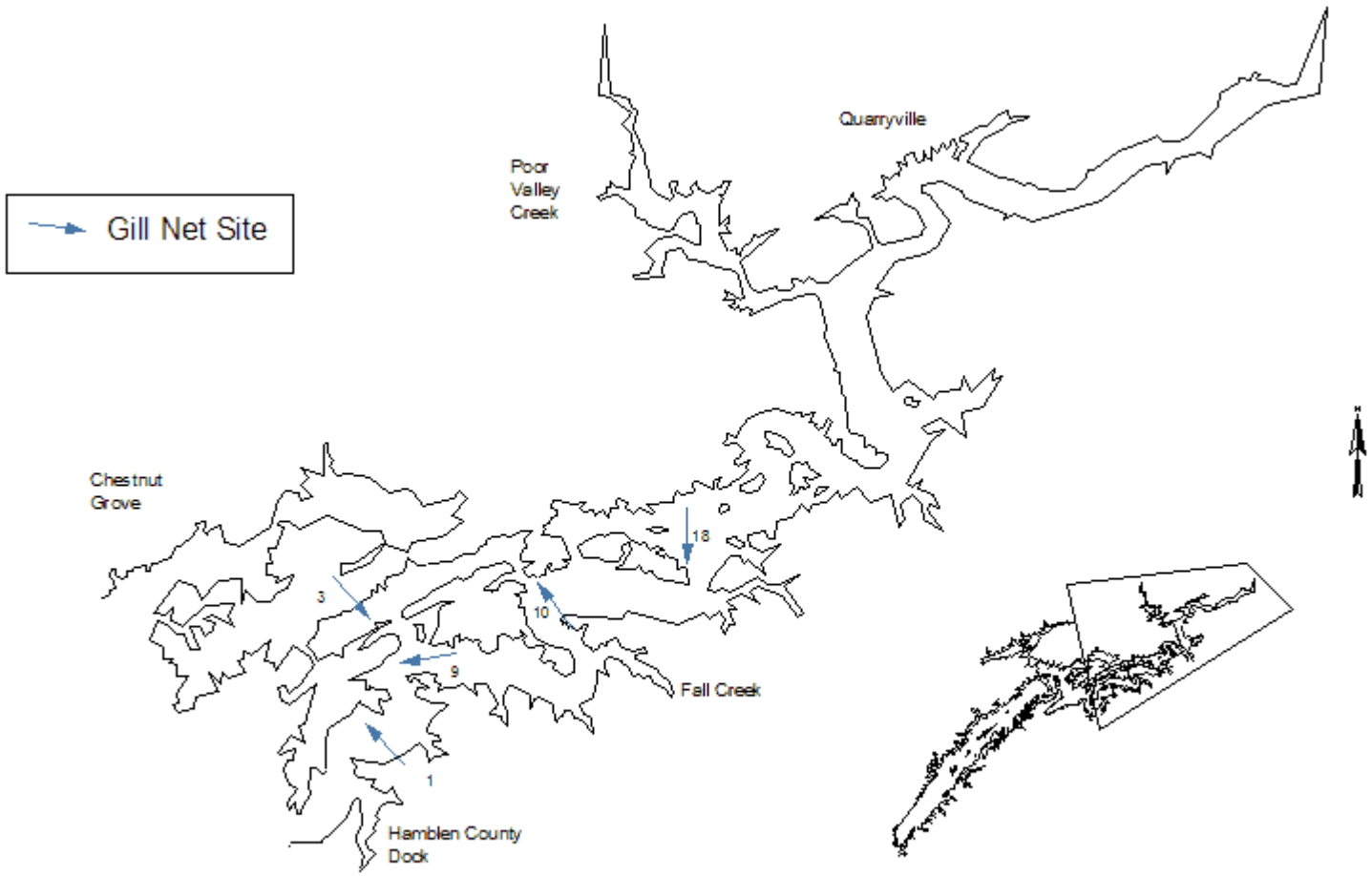


Figure 10. Summer shad gill netting sites in the upper section of Cherokee Reservoir in 2008.

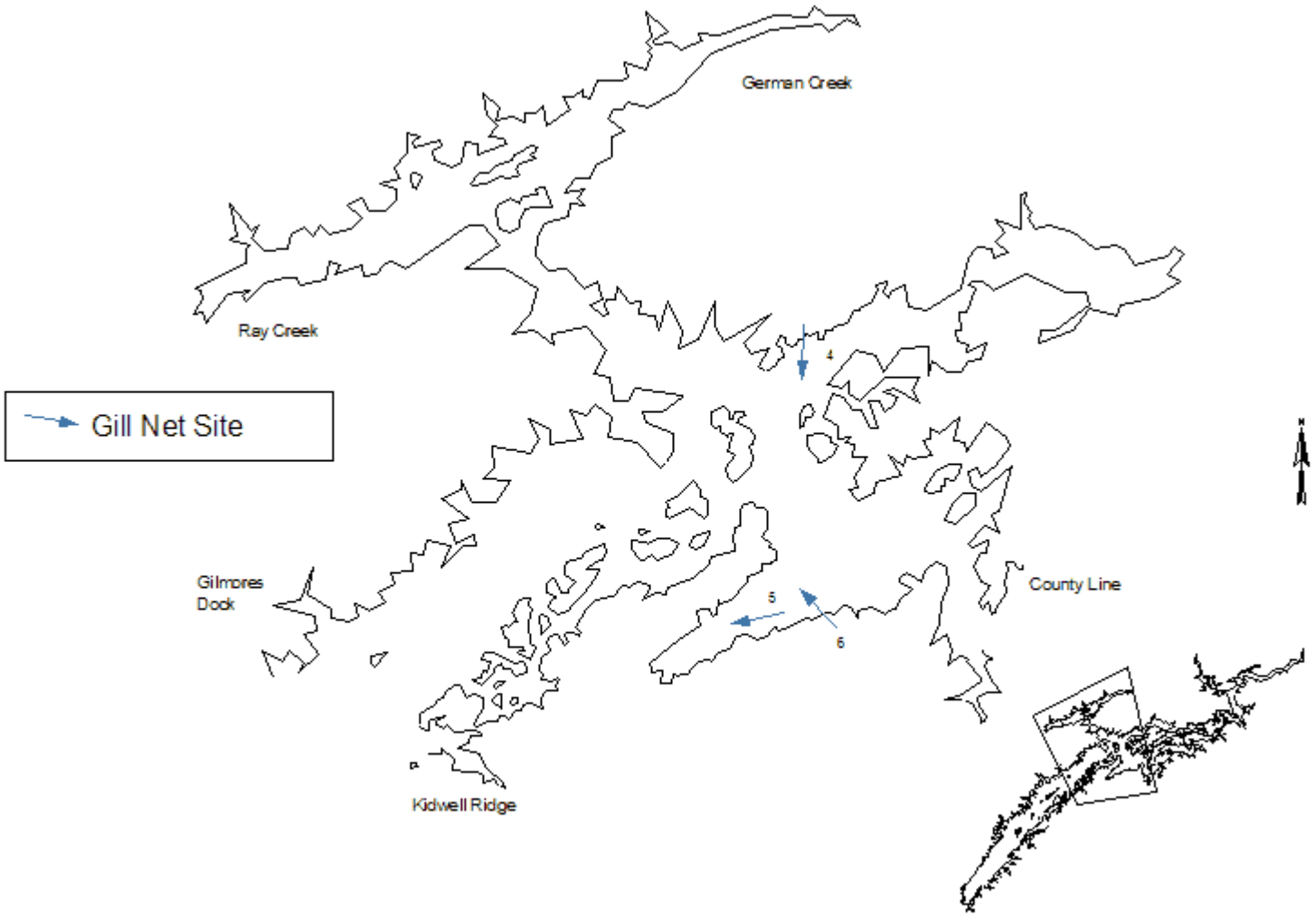


Figure 11. Winter gill net sites in the middle section of Cherokee Reservoir in 2008.

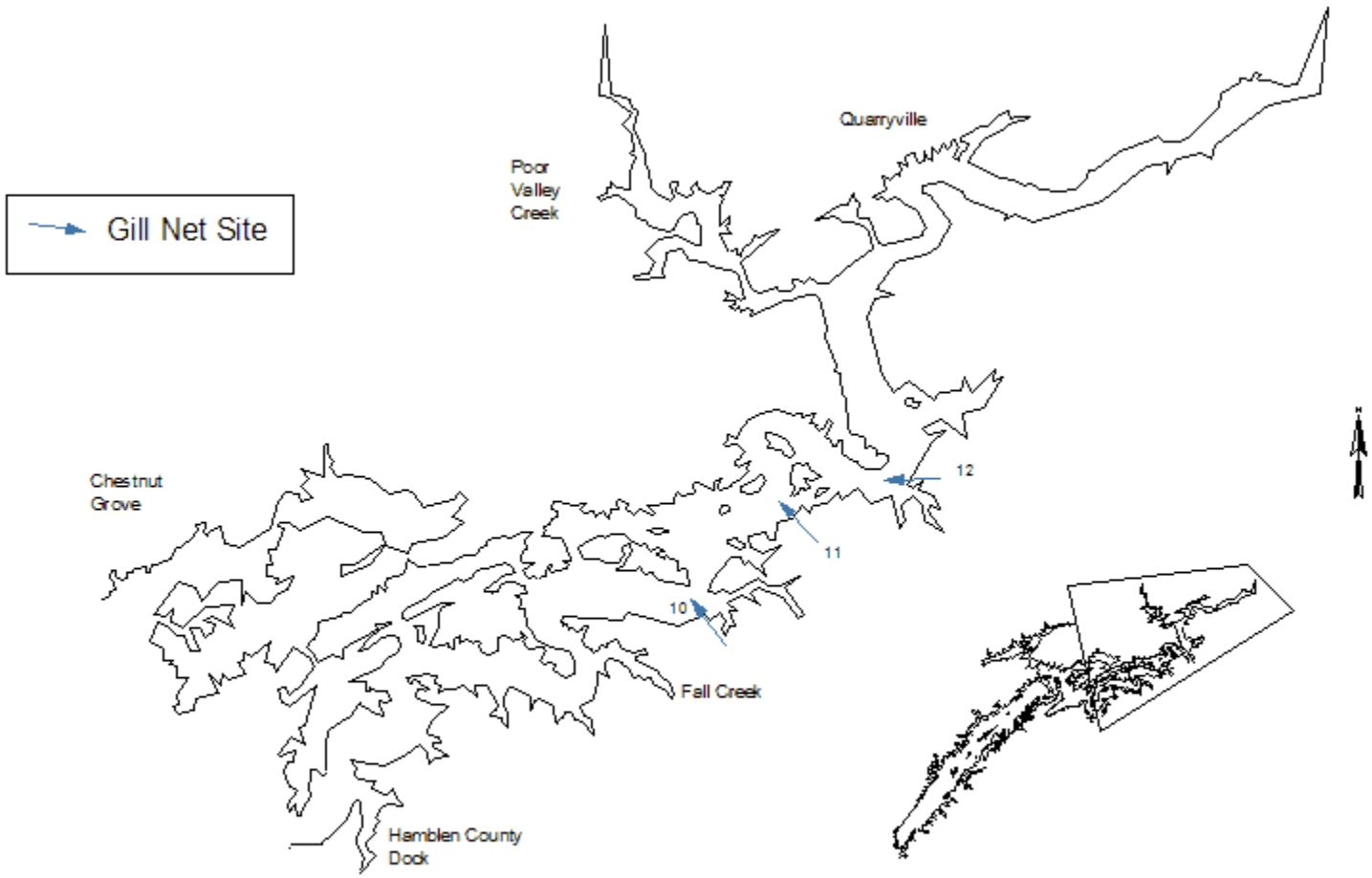


Figure 12. Winter gill netting sites in the upper section of Cherokee Reservoir in 2008.

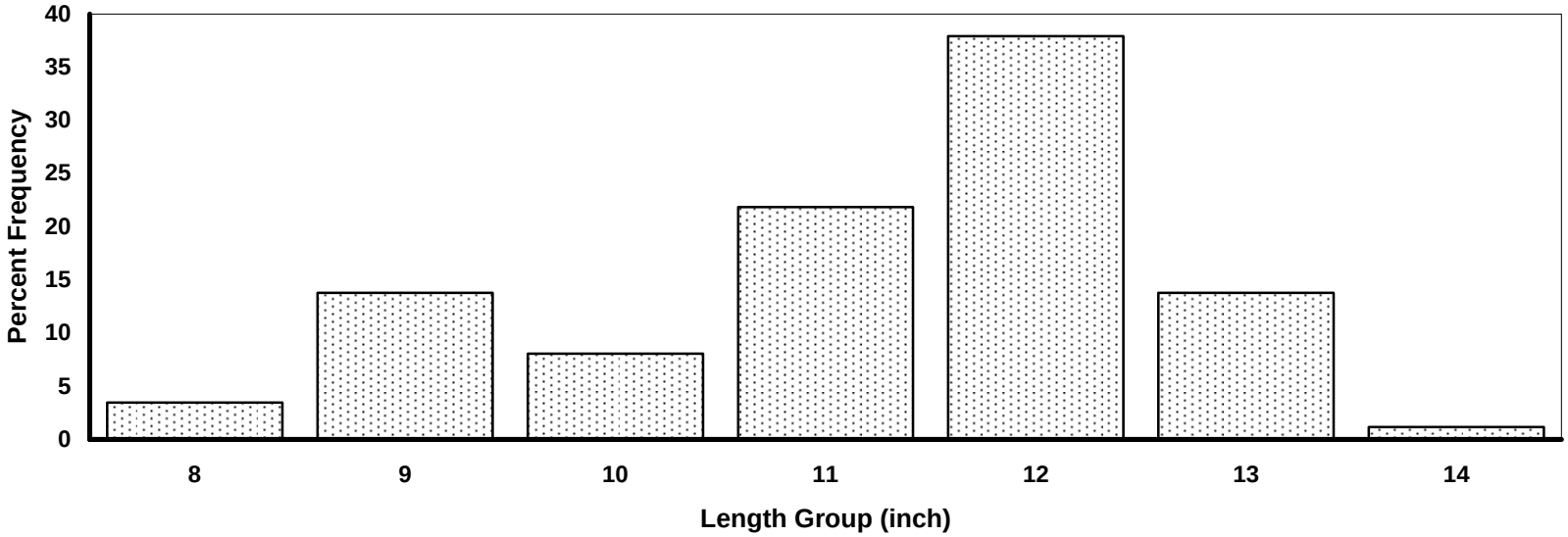


Figure 13. Cherokee Reservoir black crappie length frequency by percent for the 2008 electrofishing sample (n=87).

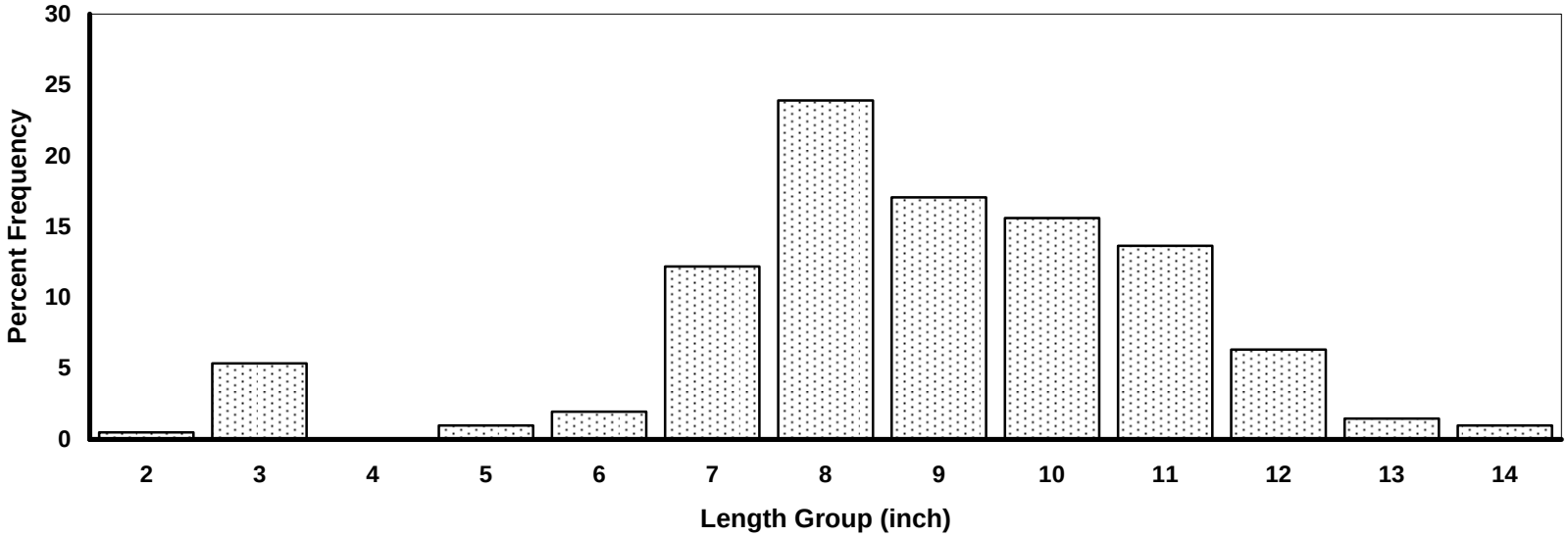


Figure 14. Cherokee Reservoir black crappie length frequency by percent for the 2008 trap net sample (n=205).

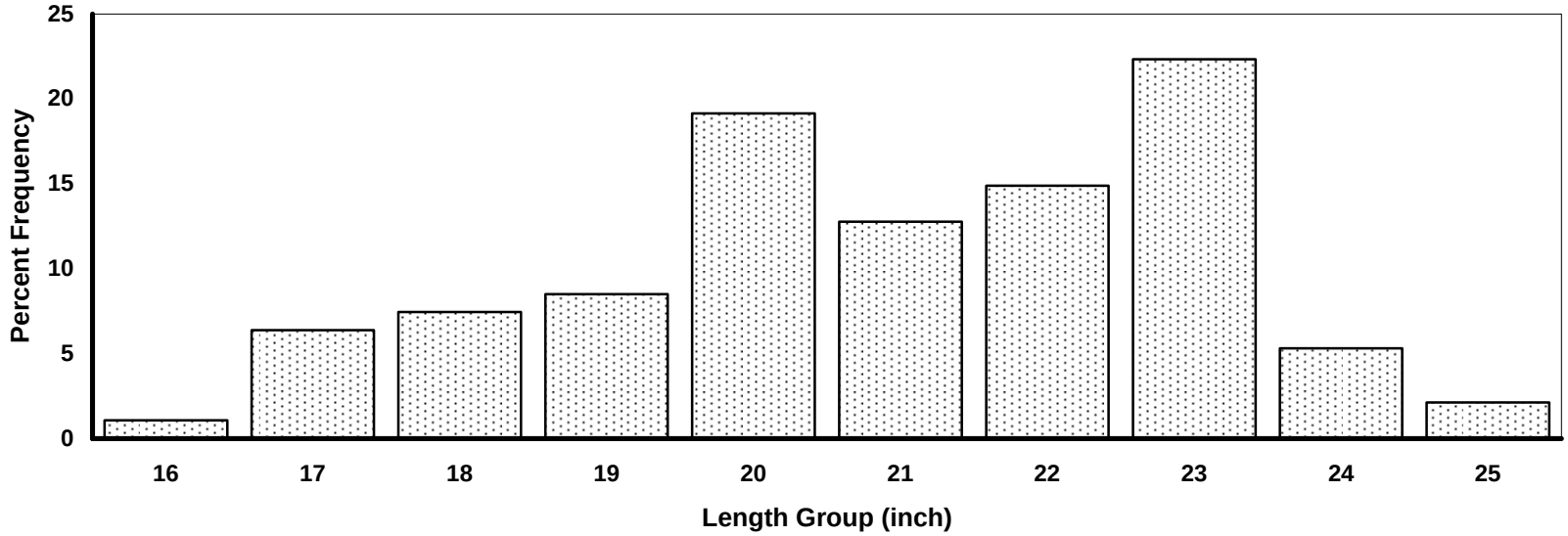


Figure 15. Cherokee Reservoir hybrid striped bass length frequency by percent for 2008 winter gill net sample (n=94).

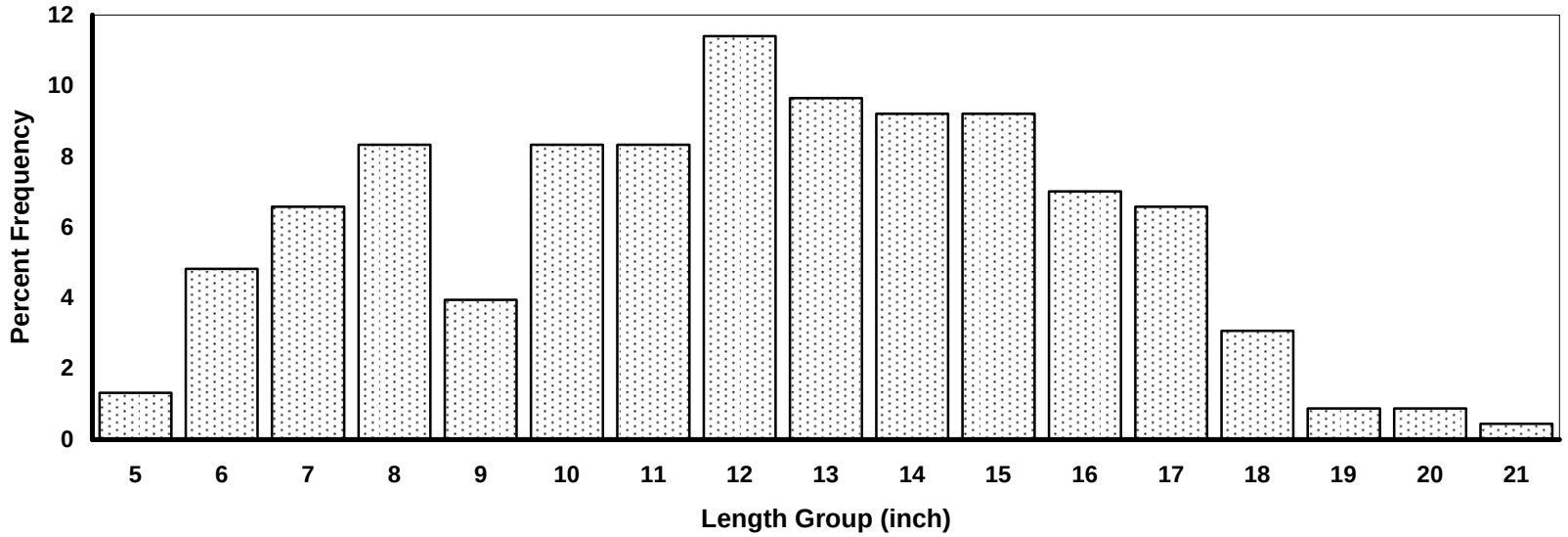


Figure 16. Cherokee Reservoir largemouth bass length frequency by percent for the 2008 electrofishing sample (n=228).

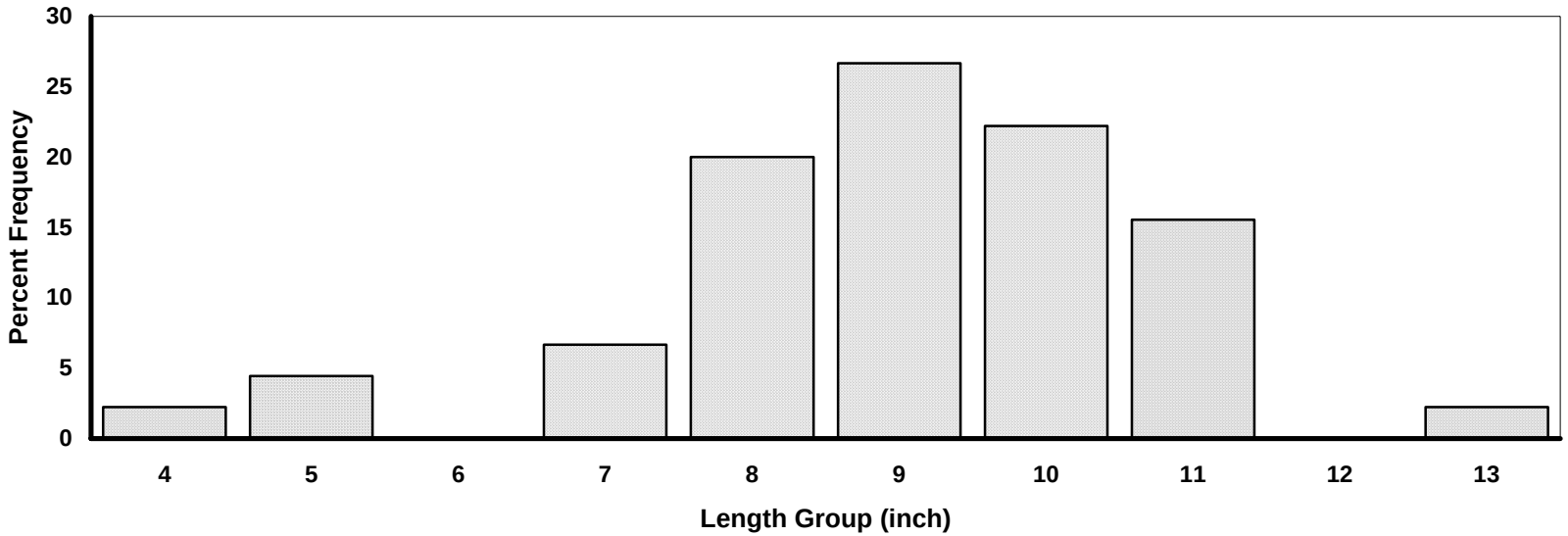


Figure 17. Cherokee Reservoir gizzard shad length frequency by percent for 2008 shad gillnetting sample (n=45).

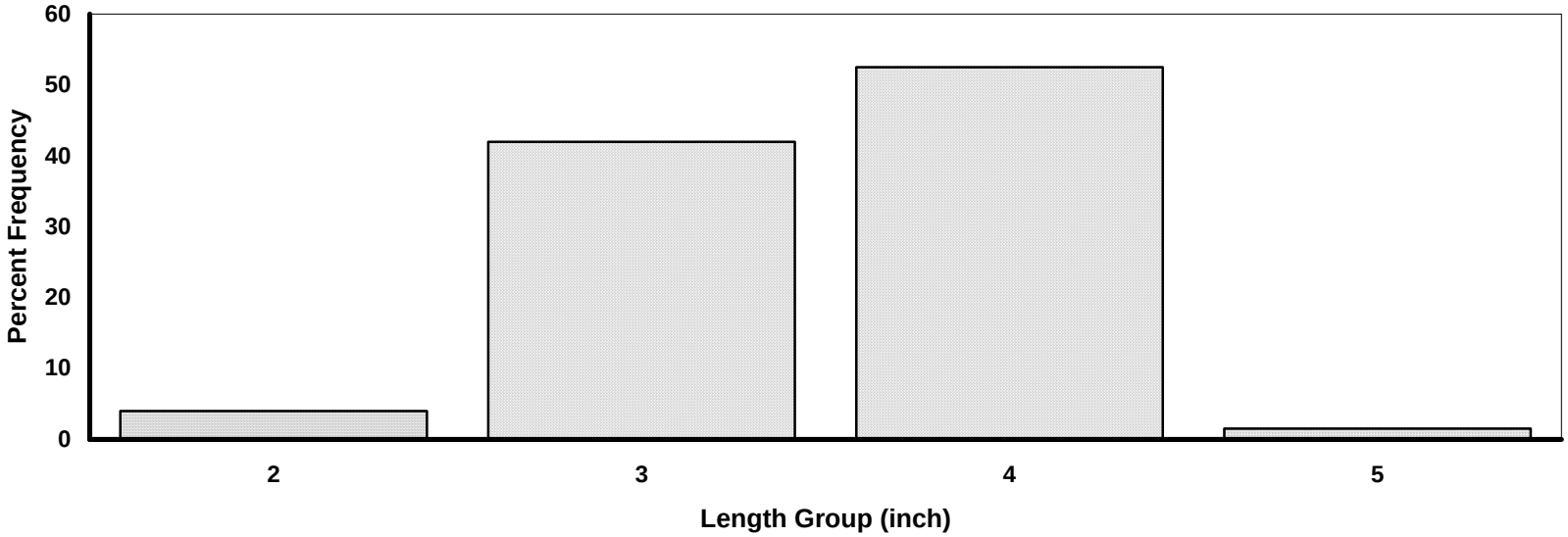


Figure 18. Cherokee Reservoir threadfin shad length frequency by percent for 2008 shad gillnetting sample (n=200).

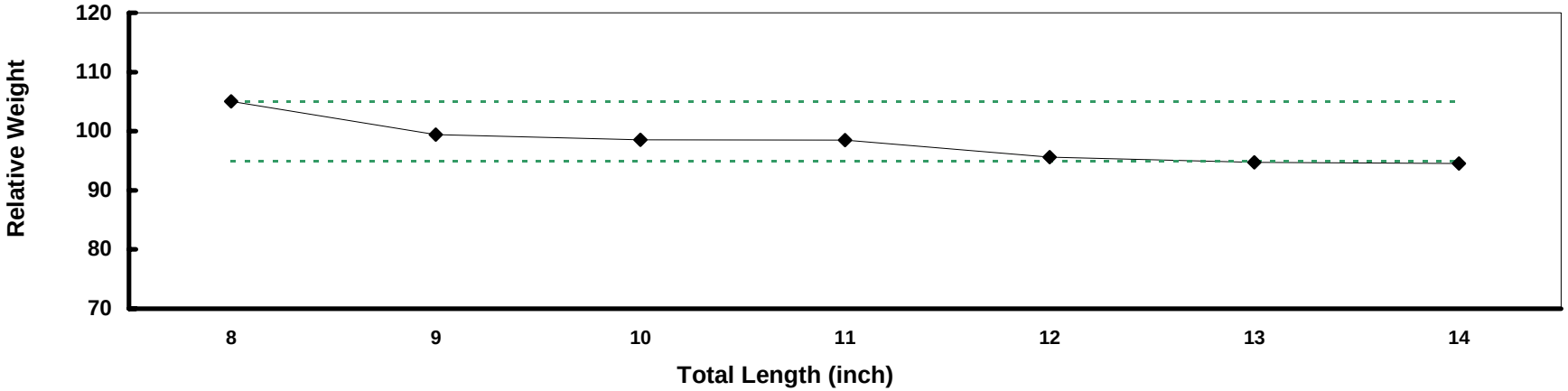


Figure 19. Cherokee Reservoir black crappie mean relative weight values from the 2008 electrofishing sample (n=87).

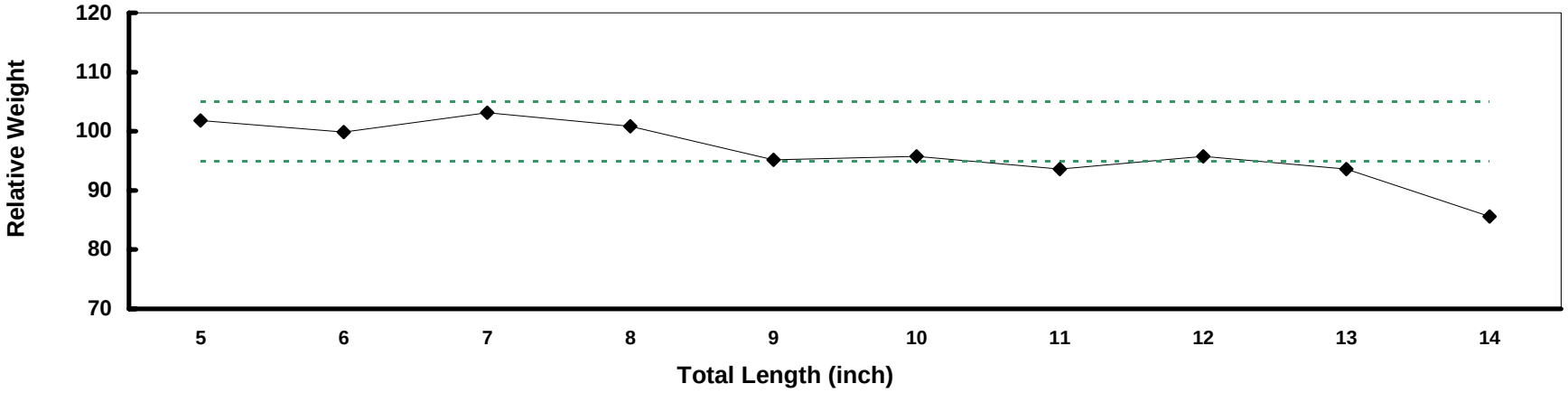


Figure 20. Cherokee Reservoir black crappie mean relative weight values from the 2008 trap net sample (n=191).

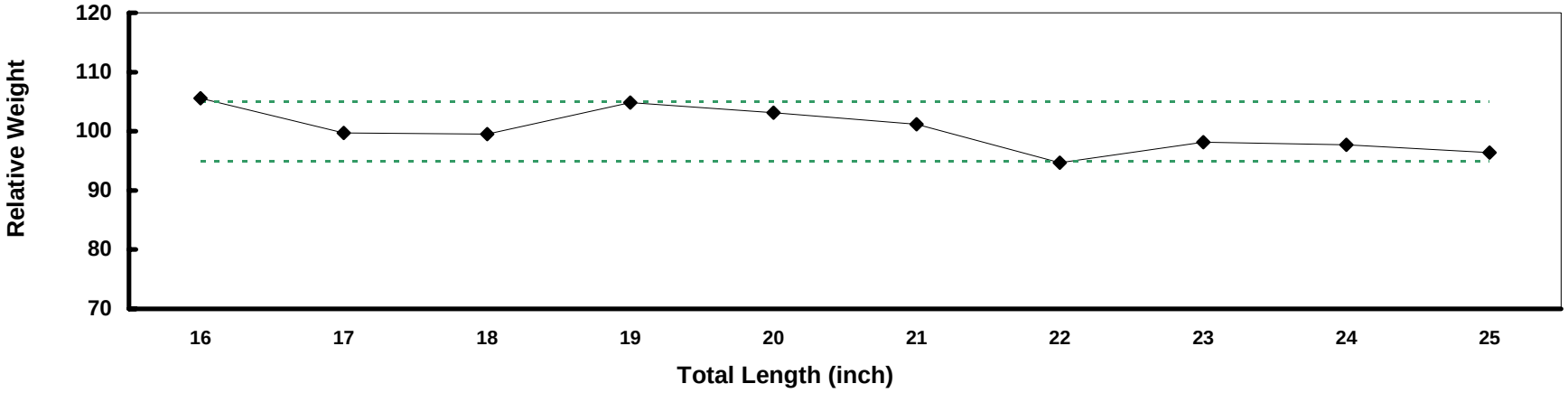


Figure 21. Cherokee Reservoir hybrid striped bass mean relative weight values from the 2008 winter gill net sample (n=94).

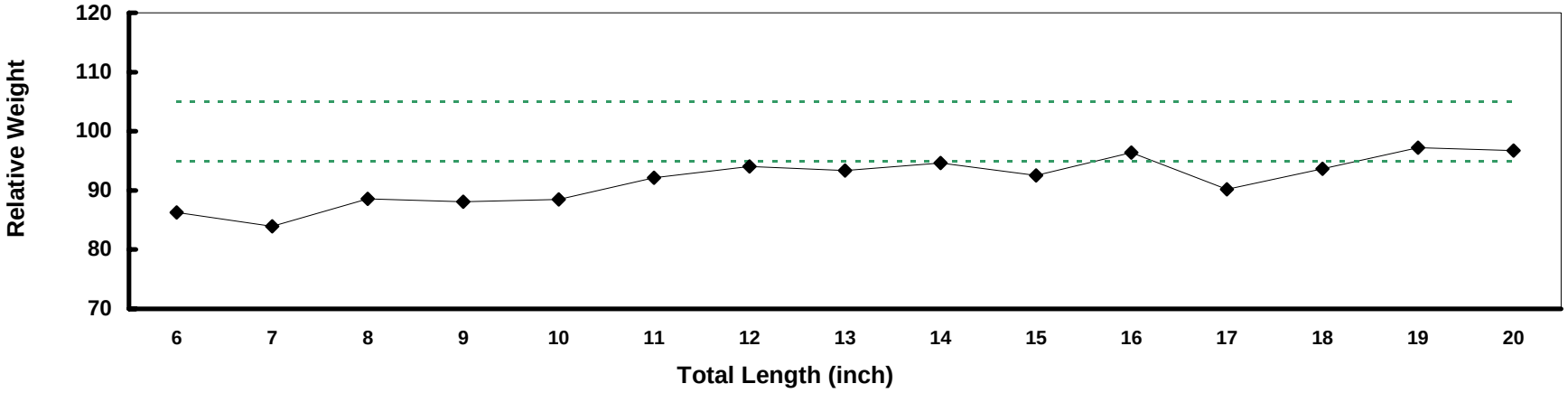


Figure 22. Cherokee Reservoir largemouth bass mean relative weight values from the 2008 electrofishing sample (n=214).

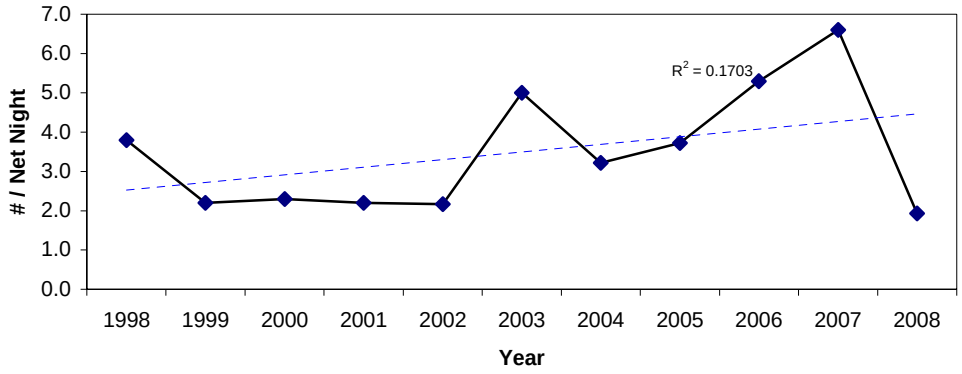


Figure 23. Cherokee Reseroir black crappie trap netting catch rates from 1998 to 2008.

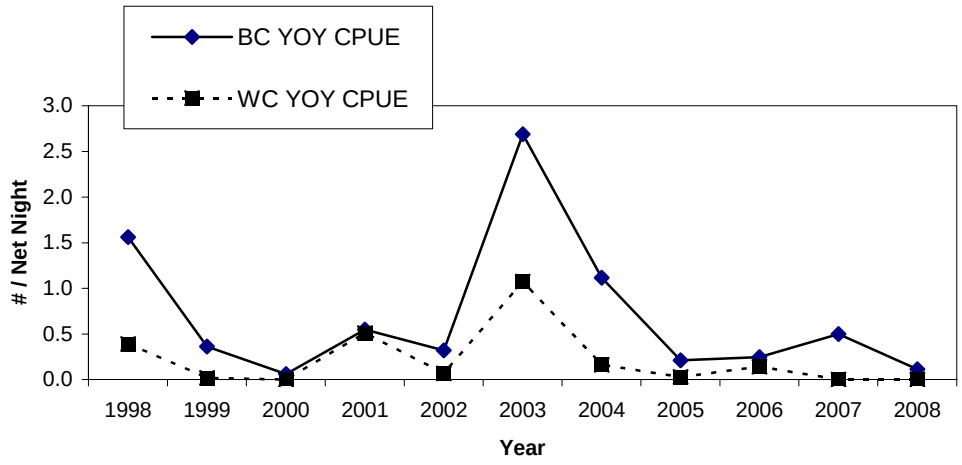


Figure 24. Cherokee Reservoir YOY crappie trap netting catch rates from 1998 to 2008.

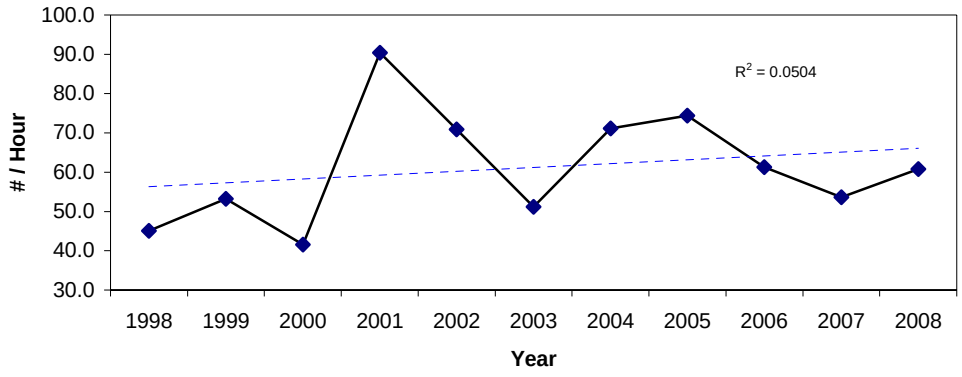


Figure 25. Cherokee Reservoir largemouth bass electrofishing catch rates from 1998 to 2008.

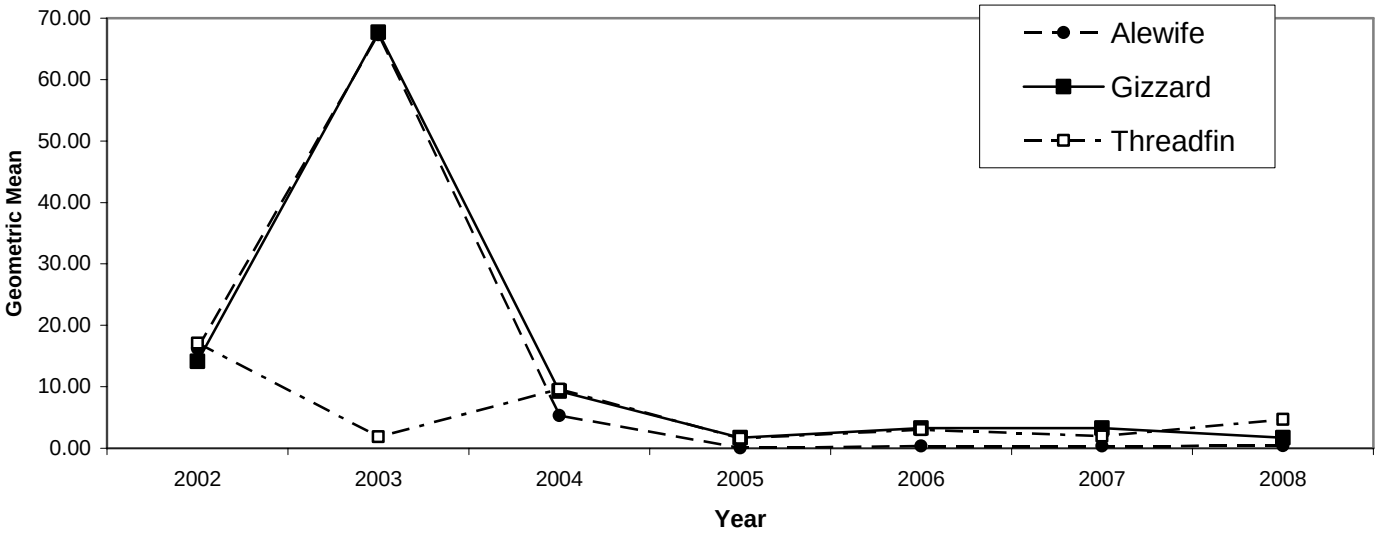


Figure 26. Catch rate of shad by summer gill netting in Cherokee Reservoir from 2002 to 2008

Figure 27. Cherokee Reservoir Water Quality at Holston River Mile 55 - July 1, 2008

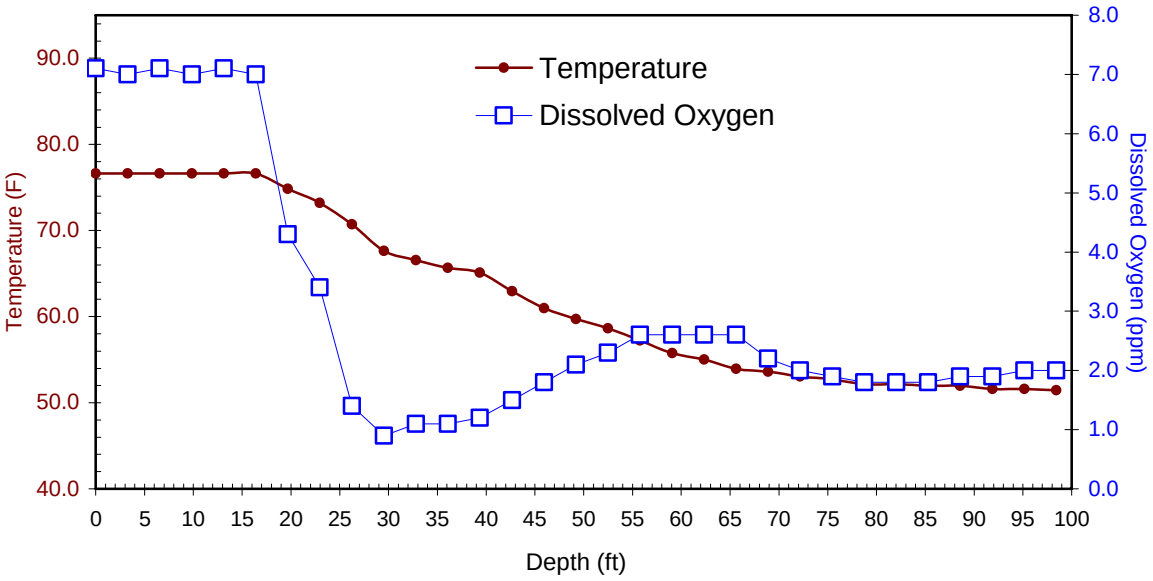


Figure 28. Cherokee Reservoir Water Quality at Holston River Mile 66 - July 1, 2008

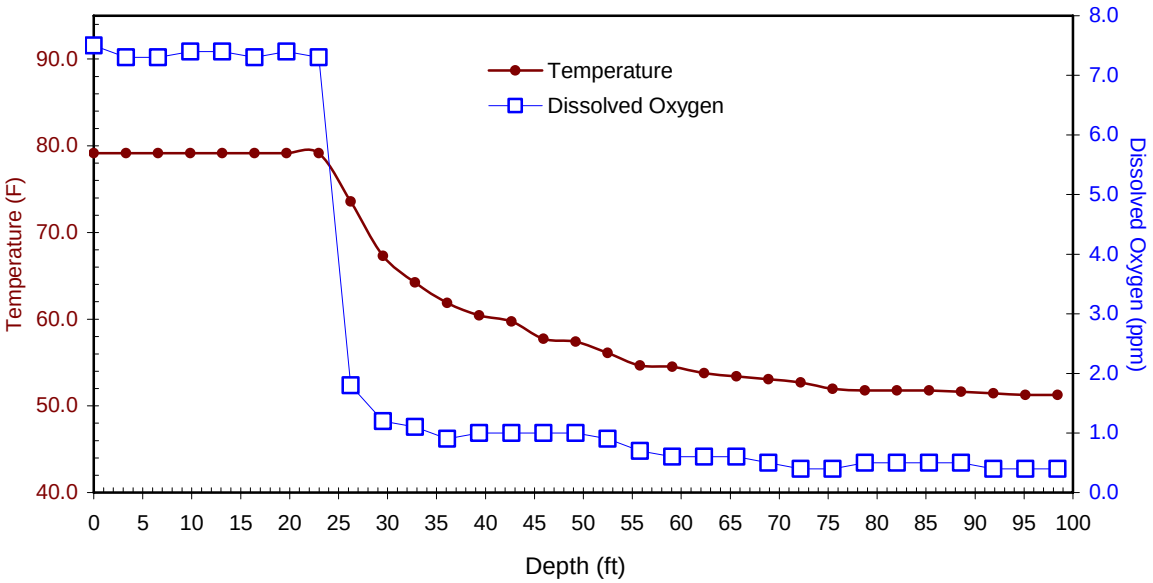


Figure 29. Cherokee Reservoir Water Quality at Holston River Mile 75 - July 1, 2008

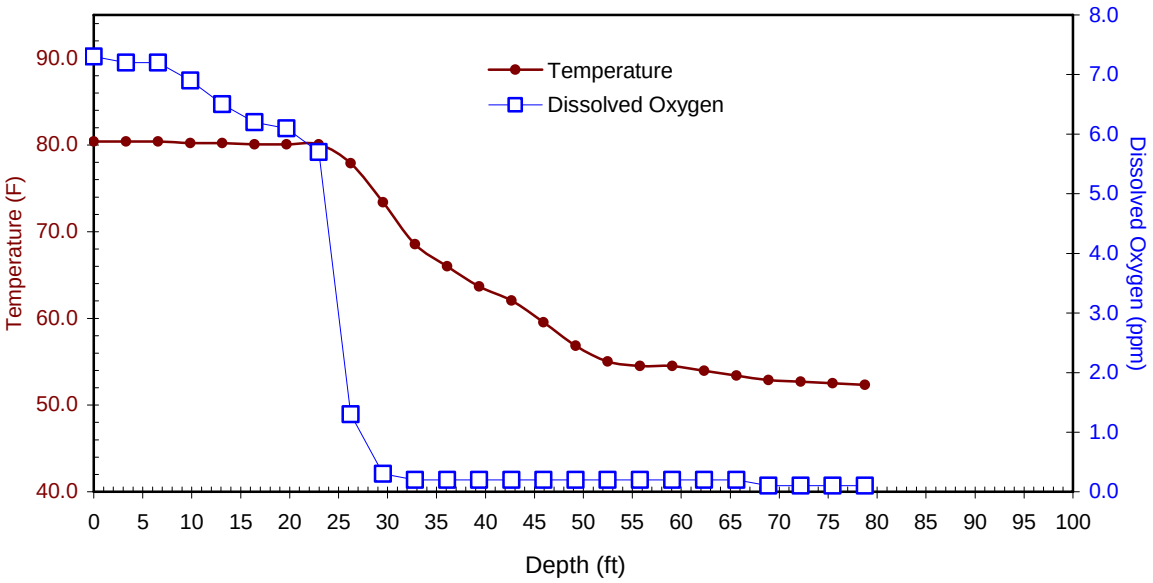


Figure 30. Cherokee Reservoir Water Quality at Holston River Mile 83 - July 1, 2008

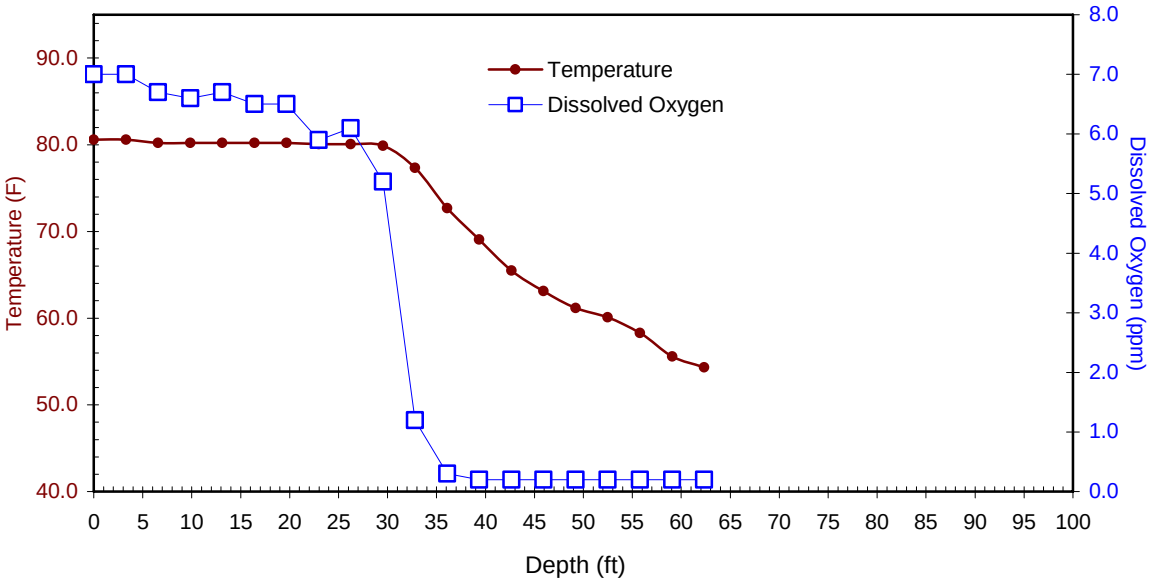


Figure 31. Cherokee Reservoir Water Quality at Holston River Mile 55 - August 5, 2008

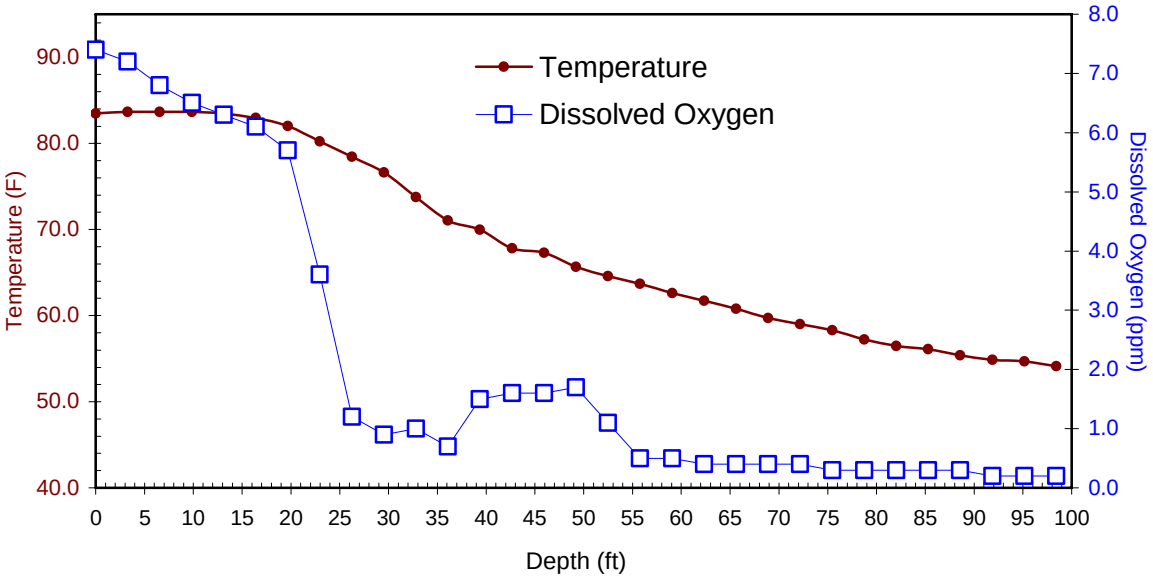


Figure 32. Cherokee Reservoir Water Quality at Holston River Mile 66 - August 5, 2008

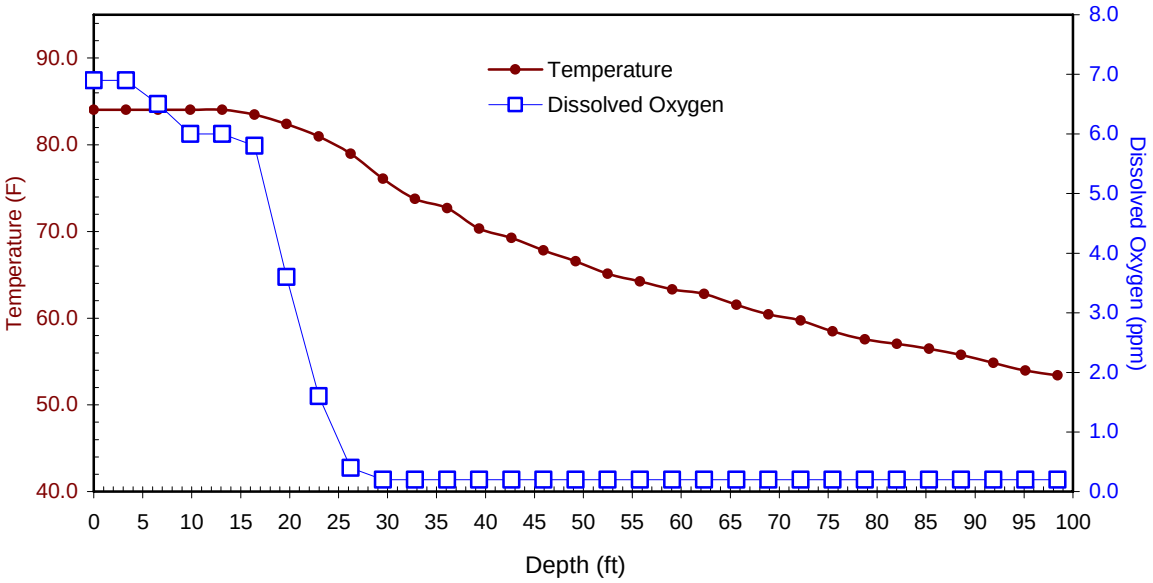


Figure 33. Cherokee Reservoir Water Quality at Holston River Mile 75 - August 5, 2008

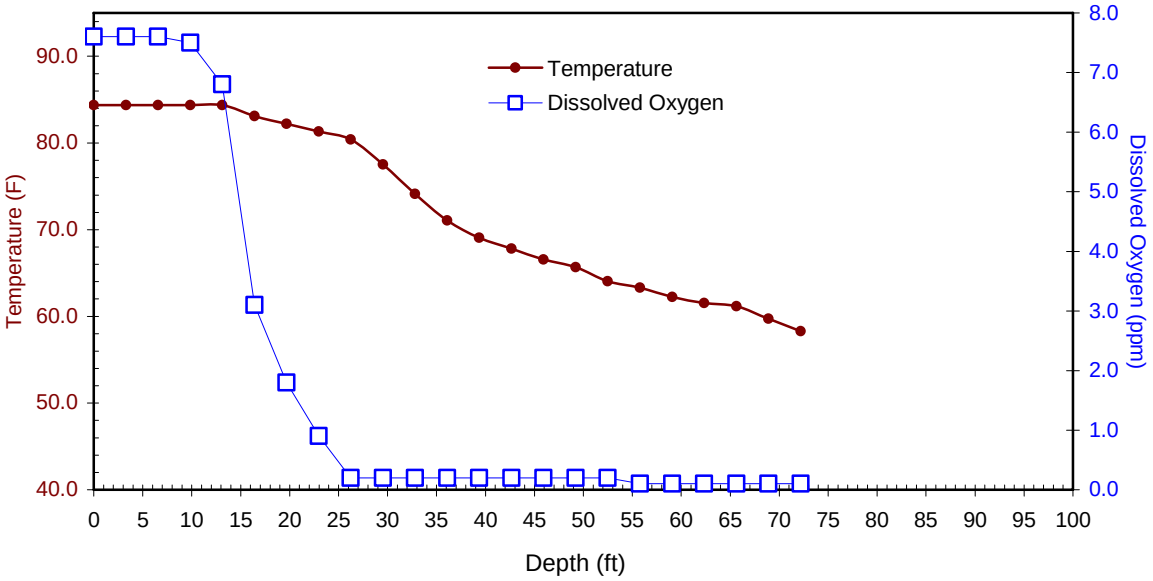


Figure 34. Cherokee Reservoir Water Quality at Holston River Mile 83 - August 5, 2008

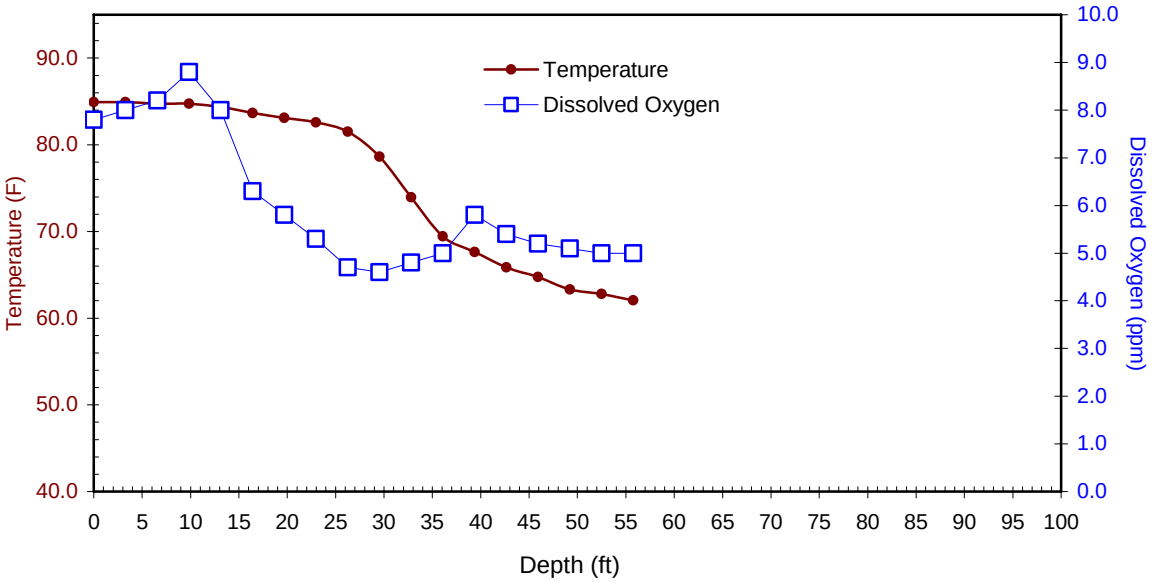


Figure 35. Cherokee Reservoir Water Quality at Holston River Mile 55 - Sept. 4, 2008

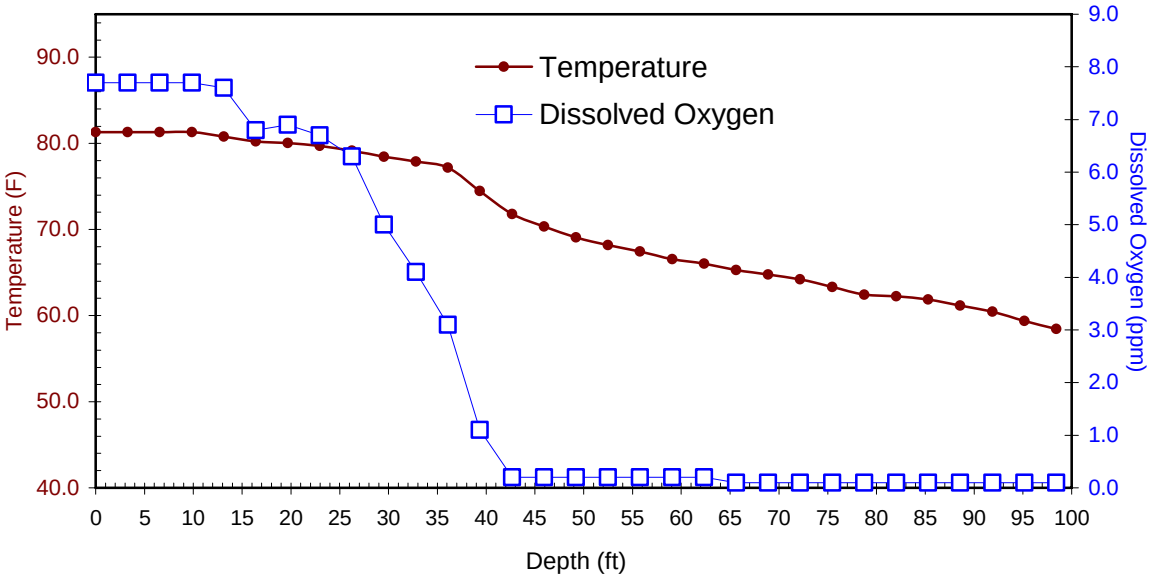


Figure 36. Cherokee Reservoir Water Quality at Holston River Mile 66 - Sept. 4, 2008

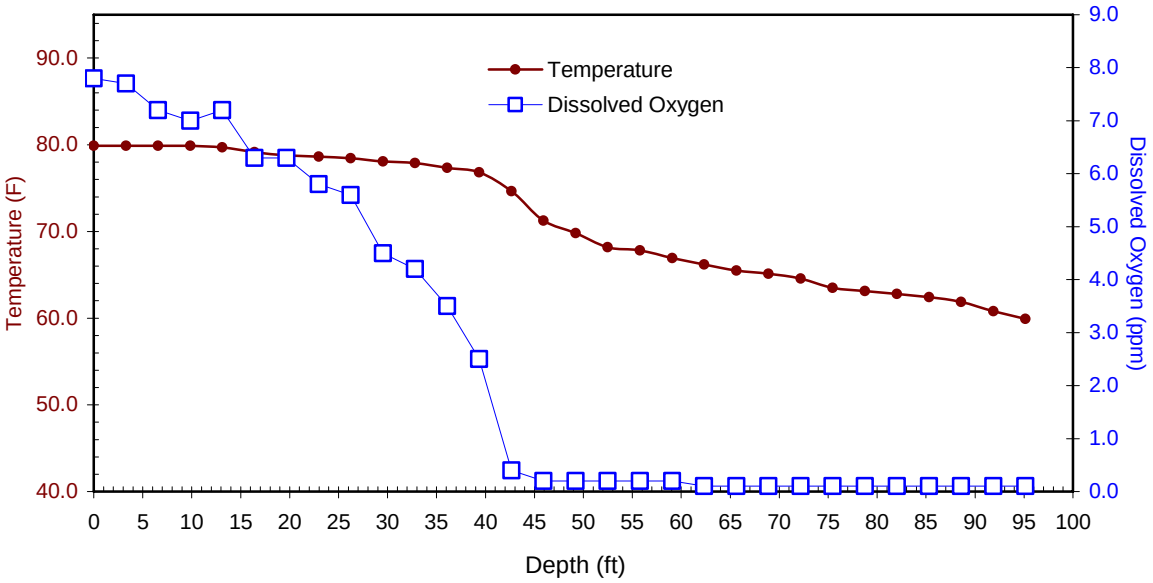
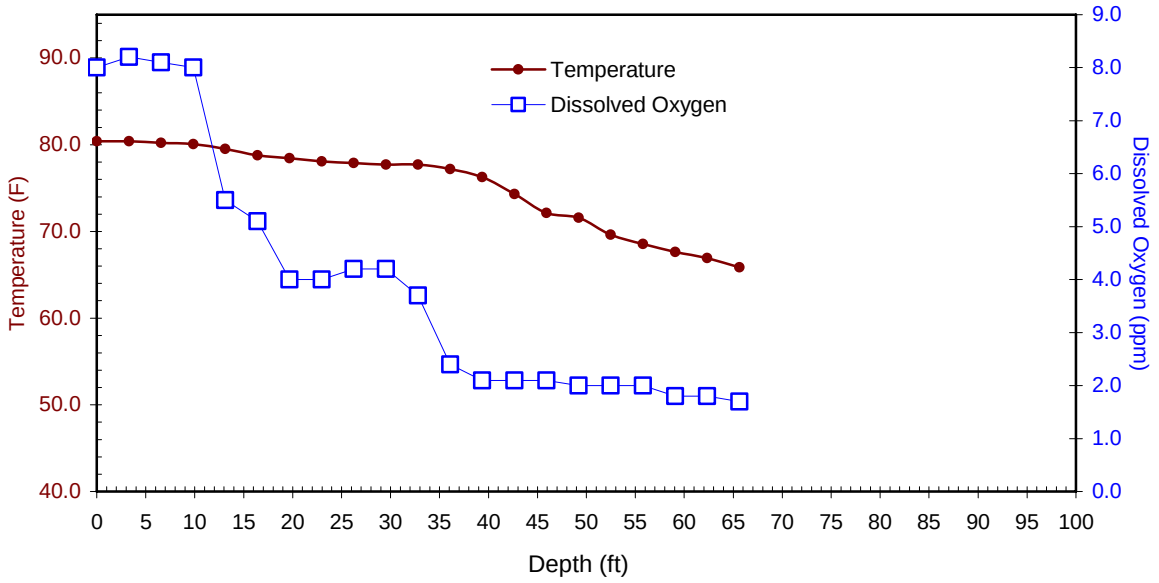


Figure 37. Cherokee Reservoir Water Quality at Holston River Mile 75 - Sept. 4, 2008



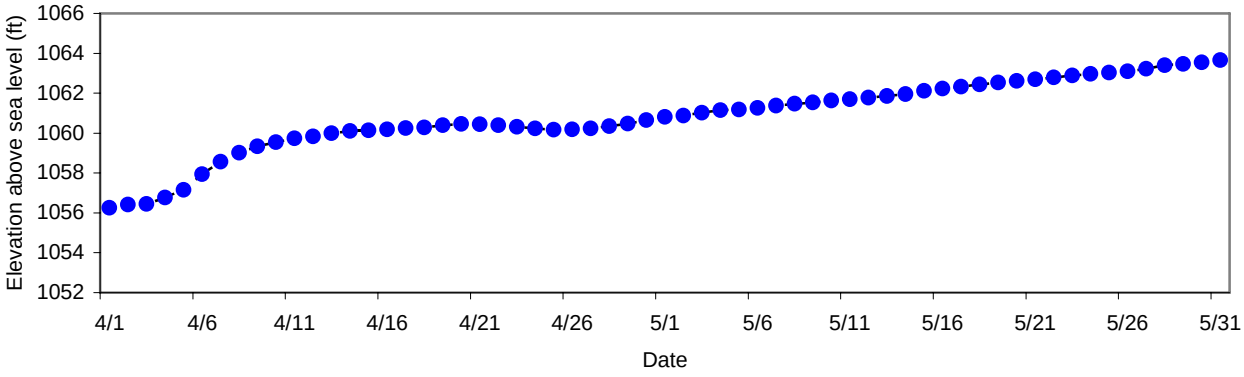


Figure 38. Cherokee Reservoir's 2008 April and May water levels (TVA data).

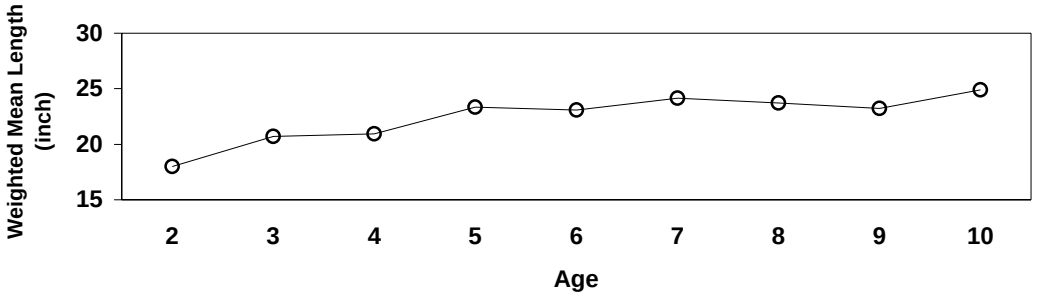


Figure 39. Weighted mean length at age of hybrid striped bass from Cherokee Reservoir's 2008 winter gill net sample.

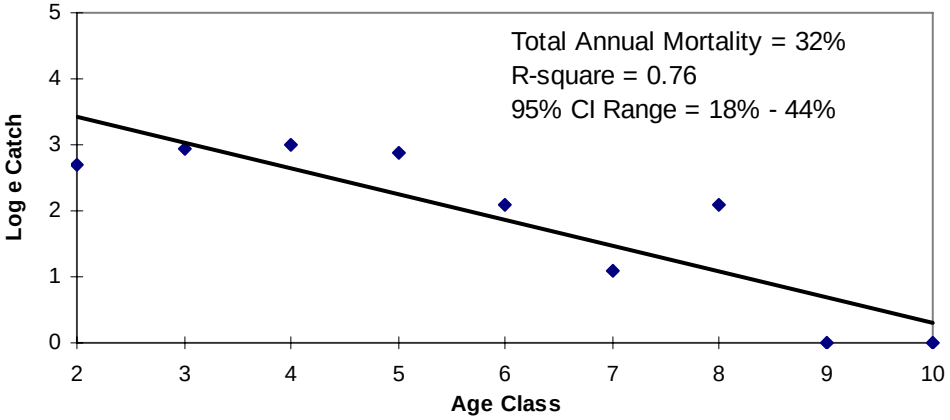


Figure 40. Total Annual Mortality of Cherokee Reservoir Hybrid Striped Bass, January 2008.

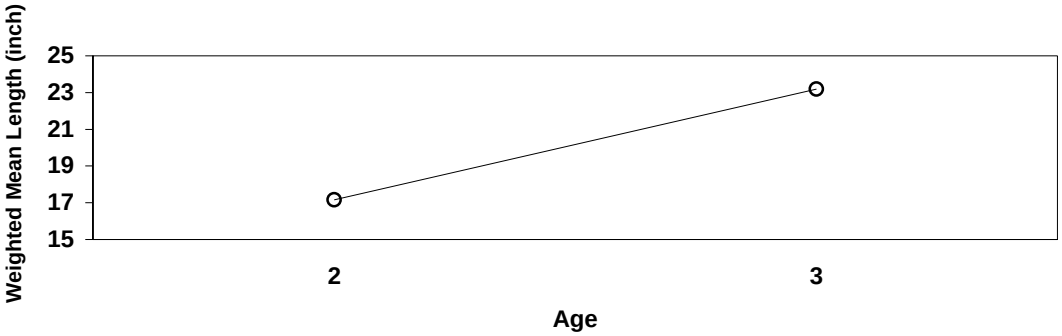


Figure 41. Weighted mean length at age of striped bass from Cherokee Reservoir's 2008 winter gill net sample.

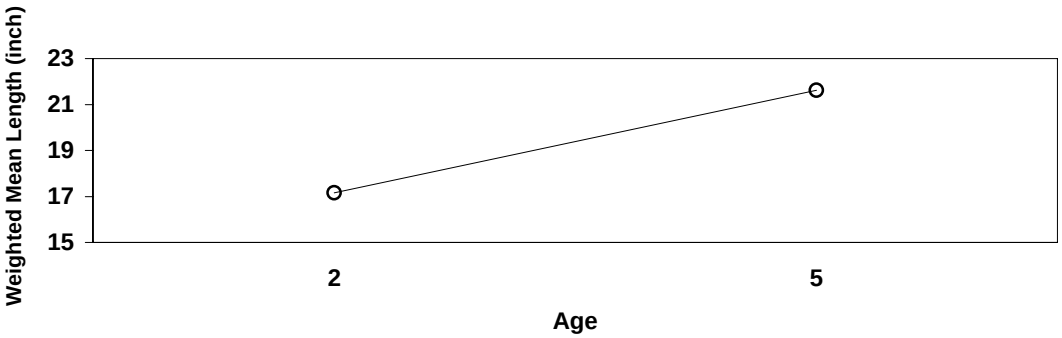


Figure 42. Weighted mean length at age of walleye from Cherokee Reservoir's 2008 winter gill net sample.

Appendix - Creel

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