

Norris Reservoir  
Annual Report 2008

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# Contents

	Page
Species summaries	4-12
<b>Tables:</b>	13
1. Norris Reservoir physical and chemical characteristics	14
2. Stocking	15
3-4. Relative stock density, mean relative weight, and CPUE by RSD category	16-17
5. Summary of creel results – Bass, striped bass, walleye	18
6. Summary of creel results – Crappie, catfish	19
7. Mean relative weight by size class for black crappie by electrofishing	20
8. Mean relative weight by size class for black crappie by trap netting	20
9. Mean relative weight by size class for largemouth bass by electrofishing	20
10. Mean relative weight by size class for smallmouth bass by all electrofishing samples	21
11. Mean relative weight by size class for spotted bass by electrofishing	21
12. Mean relative weight by size class for striped bass by gill netting	22
13. Mean relative weight by size class for walleye by gill netting	22
14. Geometric means from shad gill netting	23
15-26. Water quality parameters July- September	24-29
27. Water levels from January to June	30
28. Water levels from June to November	31
29. Water levels from November to December	32
30. Fish habitat enhancement	32
31. Length range and weighted mean length of striped bass by winter gill netting	33
32. Length range and weighted mean length of walleye by winter gill netting	33
<b>Figures:</b>	34
1. Map of water quality sites and section boundaries	35
2. Map of electrofishing sites in lower section	36
3. Map of electrofishing sites in Powell section	37
4. Map of electrofishing sites in Clinch section	38
5. Map of gill net sites in the Cove Creek area	39
6. Map of gill net sites in the Davis Creek area	40
7. Map of gill net sites in the Loyston Sea area	41
8. Map of gill net sites in Clinch section	42
9. Map of shad gill net sites in the Clinch section	43
10. Map of shad gill net sites in the lower section	44
11. Map of shad gill net sites in the Loyston Sea area	45
12. Map of shad gill net sites in the Powell section	46
13. Map of trap net sites in the Loyston Sea area	47
14. Map of trap net sites in the Big Creek area	48
15. Map of trap net sites in the Big Sycamore area	49
16. Map of trap net sites in the Cove Creek area	50
17. Map of trap net sites in the Davis Creek area	51

## Contents continued

Page

### Figures:

18. Black crappie length frequency from electrofishing	52
19. Black crappie length frequency from trap netting	53
20. Largemouth bass length frequency from electrofishing	54
21. Alewife length frequency from shad gill netting	55
22. Gizzard shad length frequency from shad gill netting	56
23. Threadfin shad length frequency from shad gill netting	57
24. Smallmouth bass length frequency from all electrofishing samples	58
25. Spotted bass length frequency from electrofishing	59
26. Striped bass length frequency from gill netting	60
27. Walleye length frequency from shad gill netting	61
28. Walleye length frequency from gill netting	62
29. Black crappie relative weight for electrofishing	63
30. Black crappie relative weight for trap netting	64
31. Largemouth bass relative weight for electrofishing	65
32. Smallmouth bass relative weight for electrofishing	66
33. Spotted bass relative weight for electrofishing	67
34. Striped bass relative weight for gill netting	68
35. Walleye relative weight for gill netting	69
36. Black crappie electrofishing catch rates	70
37. Black crappie trap netting catch rates	70
38. Young-of-the-year crappie trap netting catch rates	71
39. Largemouth bass electrofishing catch rates	71
40. Smallmouth bass electrofishing catch rates	72
41. Spotted bass electrofishing catch rates	72
42. Walleye gill netting catch rates	73
43. Shad geometric means from gill netting	73
44. Striped bass length frequency at age from winter gill netting	74
45. Striped bass mean length at age from winter gill netting	75
46. Walleye length frequency at age from winter gill netting	76
47. Walleye mean length at age from winter gill netting	77
48. Walleye mortality from winter gill netting	78
49. April and May water levels	79
50-61. Water quality profiles July through September	80-85
62. Wr values by certain RSD group averages for important Norris game fish	86

### Appendix – Creel

87

## Norris Reservoir – 2008

### Description

**Area:** 34,200 acres

**Shoreline:** 809 miles

**Counties:** Anderson, Campbell, Claiborne, Grainger, and Union

**Total Fishing Effort:** 334,986 hours

**Total Value by Anglers:** \$1,351,870.00

### Black Bass

Angling Pressure	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Mean
All Black Bass (hrs)	132,234	127,375	140,315	146,990	120,670	93,262	122,872	135,241	142,592	161,902	132,345
(hrs/acre)	3.87	3.72	4.10	4.30	3.53	2.73	3.59	3.95	4.17	4.73	3.87
Any Black Bass (hrs)	131,942	108,151	114,960	116,486	78,215	69,529	83,778	100,115	113,634	124,831	104,164
(hrs/acre)	3.86	3.16	3.36	3.41	2.29	2.03	2.45	2.93	3.32	3.65	3.05
Largemouth Bass (hrs)	0	2,660	1,125	337	14,017	441	5,007	1,351	339	2,244	2,752
(hrs/acre)	0.00	0.08	0.03	0.01	0.41	0.01	0.15	0.04	0.01	0.07	0.08
Smallmouth Bass (hrs)	292	16,564	23,547	29,773	28,292	23,292	32,058	33,775	28,619	32,140	24,835
(hrs/acre)	0.01	0.48	0.69	0.87	0.83	0.68	0.94	0.99	0.84	0.94	0.73
Spotted Bass (hrs)	0	0	683	394	146	0	2,029	0	0	2,687	594
(hrs/acre)	0.00	0.00	0.02	0.01	0.00	0.00	0.06	0.00	0.00	0.08	0.02
<b>Tournaments (all black bass)</b>											
Tournament Angler Hrs/Acre (creel)	-	-	-	-	-	-	-	-	-	-	-
Tournament Catch Rate (creel)	-	-	-	-	-	-	-	-	-	-	-
Non-Tournament Catch Rate (creel)	-	-	-	-	-	-	-	-	-	-	-
<b>Value of Fishery (Trip Expenditures)</b>											
All Black Bass	-	\$289,020	\$340,340	\$448,460	\$342,470	\$284,930	\$441,630	\$605,760	\$712,800	\$1,186,900	\$516,923
Any Black Bass	-	\$268,390	\$280,490	\$373,020	\$193,070	\$224,520	\$297,250	\$474,110	\$614,920	\$997,680	\$413,717
Largemouth Bass	-	\$0	\$1,030	\$2,540	\$66,240	\$2,560	\$21,750	\$7,800	\$3,260	\$4,090	\$12,141
Smallmouth Bass	-	\$20,630	\$57,950	\$72,000	\$81,360	\$57,850	\$87,530	\$123,850	\$94,620	\$183,790	\$86,620
Spotted Bass	-	\$0	\$870	\$900	\$1,800	\$0	\$35,100	\$0	\$0	\$1,340	\$4,446

## Largemouth Bass

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Mean
<b>Recruitment</b> (electrofishing)											
Substock CPUE	2.50	0.80	2.60	3.18	1.23	2.97	4.72	3.07	0.67	2.53	2.43
<b>Density</b> (electrofishing)											
PSD	77	66	81	80	79	74	82	74	77	79	77
RSD (preferred)	-	-	32	37	43	39	50	37	33	30	38
CPUE (total)	20.2	17.2	22.0	16.1	10.7	22.7	20.6	25.2	27.7	26.9	20.9
CPUE ≥ Stock	17.7	16.4	19.4	12.9	9.5	19.7	15.9	22.1	27.0	24.4	18.5
CPUE ≥ MLL (14-inches)	-	-	9.5	6.8	10.2	9.1	9.4	10.7	13.6	11.6	10.1
<b>Growth</b> (electrofishing)											
Length Age-1	-	-	6.9	-	-	-	-	-	-	-	6.9
Length Age-3	-	-	13.3	-	-	-	-	-	-	-	13.3
<b>Condition</b> (spring electrofishing)											
Stock	91.0	83.2	83.1	84.5	85.8	89.9	87.3	84.1	83.5	84.1	85.7
Quality	85.2	83.7	81.6	82.1	84.5	87.8	85.1	84.0	85.9	83.1	84.3
Preferred	84.0	87.1	85.7	85.8	82.5	84.6	87.7	82.1	84.9	84.5	84.9
Memorable	80.1	84.4	86.4	91.4	76.4	93.7	91.6	82.8	86.9	87.1	86.1
<b>Mortality</b> (electrofishing)											
Total Mortality	-	-	47.0%	-	-	-	-	-	-	-	47.0%
<b>Fishing Success</b> (creel)											
Catch Rate (intended)	0.00	0.14	0.09	0.00	0.09	0.00	0.24	0.32	0.29	0.10	0.13
Harvest Rate (intended)	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.02
% Released	84.6%	96.0%	93.9%	98.5%	94.4%	98.6%	95.8%	91.8%	93.9%	97.1%	94.5%
Mean Weight	2.01	1.68	1.54	2.04	2.41	1.93	2.87	2.26	1.70	3.07	2.15

**Fishery Forecast:** The population has improved during the past few years. The average weight of largemouth caught by anglers in 2008 was an outstanding 3.1-pounds. The creel survey demonstrates anglers are not targeting largemouth nearly as much as they are smallmouth.

**Management Recommendations:** Continue with the 15-inch minimum length limit.

## Smallmouth Bass

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Mean
<b>Recruitment</b> (electrofishing)											
Substock CPUE	2.50	0.20	0.70	1.23	0.21	0.00	0.31	0.53	0.27	0.53	0.65
<b>Density</b> (electrofishing)											
PSD	51	65	74	80	79	82	90	62	44	67	69
RSD (preferred)	-	-	35	38	59	33	54	42	19	36	40
CPUE (preferred)	1.3	0.7	1.8	1.7	1.4	1.4	1.1	0.5	0.3	2.4	1.3
CPUE (memorable)	0.3	0.0	0.5	1.3	0.9	0.3	1.1	0.9	0.1	0.8	0.6
CPUE (trophy)	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CPUE (total)	9.8	4.6	7.5	9.6	4.2	5.2	4.5	4.0	2.4	9.3	6.1
CPUE > Stock	7.3	4.4	6.8	8.4	4.0	5.2	4.2	3.5	2.1	8.8	5.5
CPUE > Preferred	1.6	0.7	2.3	3.1	2.3	1.7	2.2	1.4	0.4	3.2	1.9
CPUE >= MLL (18-inches)	0.0	0.0	0.3	0.5	0.7	0.3	0.5	0.8	0.0	0.3	0.3
<b>Growth</b> (electrofishing)											
Length Age-1	-	-	5.5	-	-	-	-	-	-	-	5.5
Length Age-3	-	-	11.7	-	-	-	-	-	-	-	11.7
<b>Condition</b> (spring electrofishing)											
Stock	87.0	86.8	90.3	86.4	78.9	86.1	91.4	83.6	77.5	82.1	85.0
Quality	87.8	78.8	86.1	81.2	81.1	87.0	86.7	84.7	86.0	79.5	83.9
Preferred	84.9	80.5	81.5	78.5	79.0	83.5	85.2	73.5	80.0	78.8	80.5
Memorable	83.0	-	79.1	79.1	76.8	73.8	78.9	73.8	73.8	71.5	76.6
<b>Mortality</b> (electrofishing)											
Total Mortality	-	-	48.0%	-	-	-	-	-	-	-	48.0%
<b>Fishing Success</b> (creel)											
Catch Rate (intended)	0.12	0.24	0.33	0.31	0.32	0.39	0.34	0.22	0.44	0.72	0.34
Harvest Rate (intended)	0.06	0.00	0.01	0.02	0.02	0.01	0.01	0.00	0.01	0.02	0.02
% Released	76.2%	89.4%	89.5%	95.5%	94.0%	98.0%	95.1%	97.0%	95.4%	96.7%	92.7%
Mean Weight	2.04	1.70	2.77	2.81	3.24	2.46	3.87	2.84	2.70	2.79	2.72

**Fishery Forecast:** Although not documented via our “standardized” daytime electrofishing samples, other sources of information suggest the 18-inch minimum length limit has helped increase the number of large smallmouth.

**Management Recommendations:** The five fish, 18-inch minimum length limit will change to a one fish over and one fish under 17-22 PLR on March 1, 2010.

## Spotted Bass

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Mean
<b>Recruitment</b> (electrofishing)											
Substock CPUE	6.80	1.80	7.20	8.21	3.28	0.72	4.10	3.60	3.47	2.67	4.19
<b>Density</b> (electrofishing)											
PSD	24	29	25	27	19	39	47	26	35	29	30
RSD (preferred)	-	-	2	2	2	3	10	6	3	2	4
CPUE (total)	28.4	17.2	38.9	30.4	23.5	25.4	23.4	20.5	18.8	31.6	25.8
CPUE $\geq$ Stock	21.6	15.4	31.7	22.2	20.2	24.7	19.3	16.9	15.3	28.9	21.6
<b>Growth</b> (electrofishing)											
Length Age-1	-	-	5.4	-	-	-	-	-	-	-	5.4
Length Age-3	-	-	10.7	-	-	-	-	-	-	-	10.7
<b>Condition</b> (spring electrofishing)											
Stock	83.3	96.0	94.1	95.1	95.0	95.5	95.9	91.5	92.9	92.4	93.2
Quality	82.0	92.1	89.4	90.3	87.7	93.2	90.1	87.5	92.0	86.6	89.1
Preferred	93.5	81.3	90.2	90.1	87.0	93.7	91.1	88.4	84.1	91.2	89.1
<b>Mortality</b> (electrofishing)											
Total Mortality	-	-	61.0%	-	-	-	-	-	-	-	61.0%
<b>Fishing Success</b> (creel)											
Catch Rate (intended)	-	-	0.70	-	0.67	-	0.19	-	-	0.38	0.49
Harvest Rate (intended)	-	-	0.70	-	0.44	-	0.09	-	-	0.28	0.38
% Released	74.0%	66.8%	75.3%	90.7%	74.0%	92.8%	86.1%	89.4%	94.9%	90.6%	83.5%
Mean Weight	1.06	0.62	0.79	0.87	0.85	0.99	1.21	0.91	0.75	0.82	0.89

**Fishery Forecast:** There is a high percentage of small spotted bass in the fishery when compared to other black bass. Anglers are not harvesting enough spotted bass to decrease the density of this species.

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

## Black Crappie

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Mean
<b>Recruitment</b> (trap netting)											
Substock CPUE	0.80	0.88	0.60	0.43	1.00	0.04	0.86	0.05	2.87	0.67	0.82
<b>Density</b> (trap netting)											
PSD	60	74	79	70	56	70	64	82	58	74	69
RSD (preferred)	-	-	53	47	15	43	18	29	29	32	33
CPUE (total)	3.5	3.1	1.6	1.7	1.7	1.4	2.0	1.4	5.3	1.7	2.3
CPUE $\geq$ Stock	2.7	2.2	1.0	1.3	0.7	1.4	1.1	1.4	2.4	1.0	1.5
CPUE $\geq$ MLL (10-inches)	1.1	0.7	0.5	0.6	0.1	0.6	0.2	0.4	0.7	0.3	0.5
<b>Growth</b> (trap netting)											
Length Age-1	-	-	7.4	-	-	-	-	-	-	-	7.4
Length Age-3	-	-	10.8	-	-	-	-	-	-	-	10.8
<b>Condition</b> (trap netting)											
Stock	91.7	89.1	87.8	85.7	92.8	91.1	87.5	93.0	89.9	95.2	90.4
Quality	95.4	90.5	95.5	91.1	102.2	92.6	88.8	90.4	88.4	91.6	92.7
Preferred	92.4	92.1	88.0	90.3	92.7	91.2	88.8	89.7	88.1	92.7	90.6
Memorable	83.8	83.2	89.9	80.2	87.5	91.4	94.5	85.1	88.5	86.2	87.0
<b>Mortality</b> (trap netting)											
Total Mortality	-	-	-	-	-	-	-	-	-	-	-
<b>Stocking</b>											
#	340,844	327,951	314,120	119,137	107,658	143,434	149,125	180,790	109,572	103,559	189,619
#/Acre	10.0	9.6	9.2	3.5	3.1	4.2	4.4	5.3	3.2	3.0	5.5
<b>Angling Pressure</b> (creel)											
Angler Hours (all crappie)	19,797	36,460	37,129	34,782	21,048	24,146	23,367	14,232	20,986	23,948	25,590
Angler Hours/Acre	0.6	1.1	1.1	1.0	0.6	0.7	0.7	0.4	0.6	0.7	0.7
<b>Fishing Success</b> (creel)											
Catch Rate (any crappie)	0.69	0.64	0.33	0.73	0.57	0.60	0.98	1.06	0.83	0.92	0.74
Harvest Rate (any crappie)	0.22	0.09	0.15	0.22	0.14	0.25	0.26	0.49	0.45	0.36	0.26
% Released (black crappie)	63.2%	78.1%	35.5%	58.2%	47.9%	35.1%	74.1%	35.6%	53.4%	61.5%	54.3%
Mean Weight (black crappie)	0.84	0.76	0.77	0.72	0.75	0.85	0.65	0.67	0.74	0.83	0.76
<b>Value of Fishery</b> (Trip Expenditures - creel)											
All Crappie	-	\$51,820	\$58,840	\$44,100	\$41,930	\$52,100	\$42,820	\$29,150	\$46,790	\$69,870	\$48,602

Fishery Forecast: Recent trap net samples have shown a decline in the fishery, but electrofishing and creel have demonstrated there are a fair number of harvestable size crappie throughout the reservoir. There was improved reproduction observed by trap netting in 2007, but it was again poor in 2008.

Management Recommendations: There are no creel limit changes proposed.



## Walleye

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Mean
<b>Recruitment</b> (gill netting)											
Substock CPUE	0.10	0.06	0.00	0.04	0.00	0.00	0.04	0.04	0.00	0.00	0.03
<b>Density</b> (gill netting)											
PSD	65	89	93	90	92	75	91	99	96	93	88
RSD (preferred)	-	-	25	12	17	23	15	21	13	13	17
CPUE (total)	3.3	5.3	8.1	6.9	6.5	5.3	4.9	5.8	2.8	5.8	5.5
CPUE $\geq$ Stock	3.2	5.2	8.1	6.9	6.5	5.3	4.9	5.8	2.8	5.8	5.4
CPUE $\geq$ MLL (15-inches)	-	-	7.5	6.2	6.0	4.0	4.4	5.7	2.6	5.4	5.2
<b>Growth</b> (gill netting)											
Length Age-1	11.3	-	11.3	11.3	-	12.2	11.7	10.6	11.7	12.1	11.5
Length Age-3	19.4	-	18.6	18.6	18.9	19.1	18.1	18.2	18.4	18.3	18.6
<b>Condition</b> (gill netting)											
Stock	92.8	95.9	90.3	87.9	88.2	91.8	92.1	90.9	88.3	93.1	91.1
Quality	92.8	91.9	92.2	89.7	90.1	89.5	89.0	88.8	85.8	89.3	89.9
Preferred	91.5	90.0	89.2	84.4	90.1	91.7	86.3	85.5	84.4	83.7	87.7
Memorable	95.3	83.7	89.2	81.5	80.0	-	-	-	-	-	85.9
<b>Mortality</b> (gill netting)											
Total Mortality	-	-	28.0%	36.0%	29.0%	42.0%	-	43.0%	-	32.0%	35.0%
<b>Stocking</b>											
#	334,878	347,465	336,878	313,214	171,594	173,354	260,144	179,250	197,472	187,589	250,184
#/Acre	9.8	10.2	9.9	9.2	5.0	5.1	7.6	5.2	5.8	5.5	7.3
<b>Angling Pressure</b> (creel)											
Angler Hours	19,770	59,003	78,612	65,901	65,587	55,831	57,604	48,526	45,729	40,665	53,723
Angler Hours/Acre	0.6	1.7	2.3	1.9	1.9	1.6	1.7	1.4	1.3	1.2	1.6
<b>Fishing Success</b> (creel)											
Catch Rate (intended)	0.16	0.15	0.19	0.14	0.11	0.20	0.20	0.10	0.06	0.08	0.14
Harvest Rate (intended)	0.11	0.10	0.16	0.08	0.10	0.15	0.16	0.09	0.05	0.07	0.11
% Released	41.7%	42.5%	15.6%	43.0%	6.8%	26.4%	22.7%	10.2%	13.9%	18.5%	24.1%
Mean Weight	3.57	2.17	1.88	1.89	2.16	2.11	2.20	2.11	2.22	2.29	2.26
<b>Value of Fishery</b> (Trip Expenditures - creel)											
Walleye	-	\$103,350	\$148,410	\$120,510	\$97,640	\$107,570	\$154,570	\$124,200	\$176,350	\$200,580	\$137,020

**Fishery Forecast:** The walleye fishery has rebounded impressively since the initiation of an aggressive stocking campaign in 1998, and was about average in 2008.

**Management Recommendations:** Continue to monitor the density and health of the fishery to determine future stocking rates.

## Striped Bass

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Mean
<b>Recruitment</b> (gill netting)											
Substock CPUE	0.00	-	0.00	0.19	0.07	0.19	0.04	0.04	0.00	0.11	0.07
<b>Density</b> (gill netting)											
PSD	-	-	35	60	30	60	-	30	58	59	47
RSD (preferred)	-	-	4	5	-	-	-	4	2	3	4
CPUE (total)	0.1	-	1.4	0.9	1.2	0.9	0.2	0.9	1.2	1.3	0.9
CPUE ≥ Stock	0.1	-	1.4	0.7	1.1	0.7	0.2	0.9	1.2	1.2	0.8
CPUE ≥ 15-inches	0.1	-	1.4	0.7	1.1	0.7	0.2	0.7	1.1	1.1	0.8
<b>Growth</b> (gill netting)											
Length Age-2	-	-	-	18.6	17.6	16.8	-	16.8	18.3	16.3	17.4
Length Age-3	-	-	-	22.4	22.4	23.5	-	23.3	22.8	22.5	22.8
<b>Condition</b> (gill netting)											
Stock	-	-	97.2	98.9	97.8	103.5	97.5	93.1	89.5	97.2	96.8
Quality	97.1	-	100.1	91.8	91.4	98.6	-	96.6	93.1	88.1	94.6
Preferred	-	-	100.1	95.1	-	-	-	84.6	94.1	-	93.5
Memorable	-	-	-	-	-	-	-	-	-	-	-
<b>Mortality</b> (gill netting)											
Total Mortality	-	-	-	-	-	-	-	-	-	-	-
<b>Stocking</b>											
#	102,685	103,607	105,859	104,200	130,489	103,196	103,655	129,811	103,997	108,103	109,560
#/Acre	3.0	3.0	3.1	3.0	3.8	3.0	3.0	3.8	3.0	3.2	3.2
<b>Angling Pressure</b> (creel)											
Angler Hours	68,721	59,828	50,496	84,472	65,335	49,282	40,493	60,975	41,428	33,232	55,426
Angler Hours/Acre	2.0	1.7	1.5	2.5	1.9	1.4	1.2	1.8	1.2	1.0	1.6
<b>Fishing Success</b> (creel)											
Catch Rate (intended)	0.07	0.03	0.06	0.10	0.06	0.11	0.14	0.17	0.28	0.26	0.13
Harvest Rate (intended)	0.03	0.02	0.01	0.04	0.03	0.07	0.02	0.01	0.04	0.04	0.03
% Released	61.4%	45.2%	94.4%	58.5%	53.9%	40.8%	84.1%	85.7%	91.0%	75.7%	69.1%
Mean Weight	13.75	17.72	15.66	10.59	12.43	8.66	9.27	10.54	7.79	10.23	11.66
<b>Value of Fishery</b> (Trip Expenditures - creel)											
Striped Bass	-	\$232,770	\$190,990	\$254,070	\$221,790	\$167,180	\$142,730	\$255,210	\$134,910	\$293,220	\$210,319

**Fishery Forecast:** The summer of 2003 was a difficult period for quality striped bass and there was significant mortality of large stripers as a result of poor summer DO levels. The populations has recovered nicely and large fish are becoming plentiful.

**Management Recommendations:** No further changes in length limits are proposed.

## Sunfish

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Mean
<b>Angling Pressure</b> (creel)											
Angler Hours (all sunfish)	20,713	28,136	24,986	21,658	38,927	18,308	37,585	11,096	21,485	25,006	24,790
Angler Hours/Acre	0.6	0.8	0.7	0.6	1.1	0.5	1.1	0.3	0.6	0.7	0.7
<b>Fishing Success</b> (creel)											
Catch Rate (any sunfish)	1.85	2.63	3.26	2.01	2.25	3.59	4.08	2.82	4.01	2.24	2.87
Harvest Rate (any sunfish)	0.97	0.82	1.57	0.91	1.08	1.42	1.82	1.11	1.47	1.17	1.23
% Released (bluegill)	54.8%	71.3%	51.1%	57.7%	59.2%	61.5%	70.1%	60.7%	68.2%	61.8%	61.6%
Mean Weight (bluegill)	0.83	0.19	0.20	0.27	0.23	0.27	0.23	0.31	0.27	0.25	0.31
<b>Value of Fishery</b> (Trip Expenditures - creel)											
All Sunfish	-	\$55,370	\$40,450	\$31,900	\$61,230	\$43,040	\$71,250	\$36,950	\$54,890	\$70,350	\$51,714

## Catfish

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Mean
<b>Angling Pressure</b> (creel)											
Angler Hours (all catfish)	1,640	11,971	3,903	5,377	5,468	1,068	4,534	1,180	2,488		4,181
Angler Hours/Acre	0.0	0.4	0.1	0.2	0.2	0.0	0.1	0.0	0.1		0.1
<b>Fishing Success</b> (creel)											
Catch Rate (any catfish)	0.13	0.54	0.32	0.17	0.29	0.16	0.40	0.00	0.11		0.24
Harvest Rate (any catfish)	0.13	0.54	0.32	0.17	0.29	0.16	0.40	0.00	0.11		0.24
% Released (channel)	33.2%	48.6%	33.2%	67.3%	59.8%	68.1%	71.3%	91.3%	70.9%		60.4%
Mean Weight (channel)	4.09	2.18	1.76	1.51	2.17	1.94	2.41	2.16	1.34		2.17
<b>Value of Fishery</b> (Trip Expenditures - creel)											
All Catfish	-	\$30,600	\$3,770	\$20,980	\$5,590	\$1,840	\$3,510	\$1,660	\$3,590	-	\$8,943

## Shad

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Mean
<b>Density</b> (Summer Shad Gill Netting) (geometric means)											
Alewife CPUE	-	-	2.1	0.3	17.3	0.7	0.4	0.1	1.6	1.6	3.0
Gizzard CPUE	-	-	1.9	4.3	5.8	3.7	5.3	0.9	1.7	1.3	3.1
Threadfin CPUE	-	-	8.6	5.8	17.9	14.6	3.8	1.1	6.2	3.2	7.7

## Habitat Enhancement

Type of Work	Details	Quantity	
		New	Renovated
Rebrush	Christmas trees with block	none	5 sites, 315 units, 6.3 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. Norris Reservoir physical and chemical characteristics.

Surface Area	34,200 acres
Drainage Area	2,912 sq. mi.
Full Pool Elevation	1,020 feet-msl
Mean Annual Fluctuation	60 feet
Shoreline Distance	809 miles
Total Developed Shoreline	13%
Maximum Depth	196 feet
Outlet Depth (lower, upper)	147 feet, 167 feet
Thermocline Depth	28 feet (Aug 2007)
Trophic Status (Forebay)	Oligotrophic
Mean Chlorophyll (Forebay)	2.4 mg/L
Trophic Index Value	39.0
Hydraulic Retention Time	245 days
Year Impounded	1936

Table 2. Norris Reservoir fish stockings 1998 - 2008.

<b>Species</b>	<b>Year</b>	<b>Rate (per acre)</b>	<b>Total Stocked</b>
Black Crappie	1998	0.6	20,000
	1999*	10.0	340,844
	2000*	9.6	327,951
	2001*	9.2	314,120
	2002*	3.5	119,137
	2003*	3.1	107,658
	2004*	4.2	143,434
	2005*	4.4	149,125
	2006*	5.3	180,790
	2007*	3.2	109,572
	2008*	3.0	103,559
Striped Bass	1999	3.0	102,685
	2000	3.0	103,607
	2001	3.1	105,857
	2002	3.0	104,200
	2003	3.0	103,489
	2004	3.0	103,196
	2005	3.0	103,655
	2006	3.8	129,811
	2007	3.0	103,997
	2008	3.2	108,103
Walleye	1998	12.1	414,762
	1999	9.8	334,878
	2000	10.2	347,465
	2001	9.9	336,878
	2002	9.2	313,214
	2003	5.0	171,594
	2004	5.1	173,354
	2005	7.6	260,144
	2006	5.2	179,250
	2007	5.8	197,472
	2008	5.5	187,589

\*includes blacknose black crappie









Table 6. Summary of creel results for Norris Reservoir 1998-2008.

Norris Species	YEAR	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 Comp.	Total Intend Effort
White Crappie	1998									2,199	246	2.69	5			
	1999				14,438					15,819	3,865	0.67	40	75.6	5.9	
	2000				11,548		1,119			14,220	1,902	0.75	34	86.6	3.1	
	2001				2,737		891			2,737	891	0.75	8	67.4	0.9	
	2002				11,869		2,604			12,710	2,741	0.73	40	78.4	3.6	
	2003				4,745		1,403			4,903	1,497	0.62	16	69.5	2.1	
	2004				2,994		1,045			3,078	1,045	0.79	32	66.0	1.9	
	2005				5,534		702			5,672	702	0.69	6	87.6	0.9	
	2006				858		397			1,144	595	0.98	6	48.0	1.3	
2007				2,309		1,766			2,431	1,902	0.84	14	21.8	3.8		
2008				12,905		1,975			16,060	2,873	0.88	16	82.1	4.3		
Black Crappie	1998									9,532	2,682	0.83	56			
	1999				10,549					12,533	4,618	0.84	45	63.2	7.0	
	2000				12,175		2,231			13,310	2,918	0.76	34	78.1	4.8	
	2001				6,271		4,070			6,550	4,227	0.77	27	35.5	4.2	
	2002				13,973		5,699			14,247	5,962	0.72	68	58.2	7.9	
	2003				4,129		2,150			4,129	2,150	0.75	17	47.9	3.0	
	2004				7,457		4,856			7,659	4,972	0.85	43	35.1	9.2	
	2005				21,390		5,481			21,681	5,608	0.65	44	74.1	7.1	
	2006				12,080		7,781			12,080	7,781	0.67	52	35.6	16.4	
2007				12,489		5,926			12,969	6,040	0.74	41	53.4	12.0		
2008				25,674		9,489			28,319	10,905	0.83	77	61.5	16.4		
Black-nose Crappie	1998				0					0	0	na	0			
	1999				0					0	0	na	0		0.0	
	2000				902		0			902	0	na	0		0.0	
	2001				86		0			86	0	na	0		0.0	
	2002				2,705		474			2,921	632	0.83	8	78.4	0.8	
	2003				4,080		777			4,185	907	0.86	7	78.3	1.3	
	2004				1,959		249			1,959	249	0.30	1	87.3	0.5	
	2005				2,315		499			2,315	499	0.85	3	78.4	0.6	
	2006				1,897		180			2,108	359	0.77	4	83.0	0.8	
2007				1,400		1,012			1,400	1,012	0.53	5	27.7	2.0		
2008				2,065		674			2,271	770	0.86	8	66.1	1.2		
Channel Catfish	1998				1,484					1,636	791	1.90	14			
	1999				4,737					3,202	2,137	4.09	23	33.3	3.2	
	2000				5,450		4,891			15,294	7,861	2.18	45	48.6	12.9	
	2001				2,431		1,438			16,039	10,722	1.76	54	33.2	10.6	
	2002				1,512		1,015			10,128	3,308	1.51	23	67.3	4.4	
	2003				791		386			6,500	2,610	2.17	18	59.8	3.6	
	2004				4,569		2,295			9,265	2,959	1.94	23	68.1	5.5	
	2005				1,783		358			9,815	2,817	2.41	27	71.3	3.5	
	2006				1,177		983			8,203	715	2.16	4	91.3	1.5	
2007				551		0			13,533	3,933	1.34	8	70.9	7.8		
2008						0			6,981	2,445	1.44	11	65.0	3.7		
Flathead Catfish	1998				237					3,064	591	2.46	8			
	1999				191		148			356	341	6.04	5	4.2	0.5	
	2000				551		551			508	295	4.60	4	41.9	0.5	
	2001				177		185			1,102	1,102	4.83	4	0.0	1.1	
	2002				236		287			353	277	2.65	3	21.5	0.4	
	2003				396		396			354	287	1.28	2	18.9	0.4	
	2004				137		137			792	792	1.16	4	0.0	1.5	
	2005				0		0			411	411	2.13	3	0.0	0.5	
	2006				0		0			0	0	na	0	na	na	
2007				0		0			184	184	2.20	1	0.0	0.4		
2008				330		148			989	445	7.08	3	55.0	0.7		
Bluegill	1998				44,922		22,124			54,619	22,871	0.30	277			
	1999				80,586		23,563			54,297	24,537	0.83	244	54.8	37.2	
	2000				73,774		40,883			89,623	25,705	0.19	288	71.3	42.1	
	2001				64,767		30,876			89,907	43,937	0.20	187	51.1	43.4	
	2002				63,347		30,947			85,803	36,272	0.27	242	57.7	48.1	
	2003				49,171		18,958			82,166	33,491	0.23	237	59.2	46.7	
	2004				132,854		42,514			66,695	25,700	0.27	324	61.5	47.5	
	2005				34,615		14,945			147,552	44,083	0.23	308	70.1	55.6	
	2006				65,728		20,727			43,012	16,894	0.31	78	60.7	35.5	
2007				63,106		28,515			75,773	24,070	0.27	108	68.2	48.0		
2008									76,123	29,077	0.25	199	61.8	43.9		
TOTAL	1998	266,554	52,768							158,023	38,369		607			266,554
	1999	302,469	62,574		171,161		56,064		828	206,200	64,588		685			302,469
	2000	392,121	69,556	\$873,910	192,583		51,226		676	238,348	61,009		638			392,121
	2001	402,116	79,647	\$935,710	200,722		82,574		659	267,666	101,293		517			402,102
	2002	419,504	71,249	\$953,870	215,023		62,198		744	275,254	75,476		599			419,504
	2003	372,263	67,076	\$882,580	159,698		60,213		576	204,295	70,336		459			372,263
	2004	271,214	48,676	\$698,470	118,286		40,671		478	166,343	53,821		608			271,214
	2005	354,865	62,854	\$1,055,410	249,577		73,391		482	292,084	78,199		550			354,865
	2006	318,391	61,861	\$1,143,880	155,791		41,078		518	192,166	47,539		234			318,391
2007	334,986	65,537	\$1,351,870	203,345		41,087		237	249,735	50,149		237			334,986	
2008	346,327	66,546	\$2,019,560	281,970		55,570		499	350,890	66,292		431			346,327	

Table 7. Mean relative weight and standard error values by size class for Norris Reservoir black crappie collected during the 2008 electrofishing sample.

Size Class	Mean Wr	Std. Error	N
6	96.7		1
7	90.2	8.2	2
8	96.9	2.4	12
9	89.9	1.3	33
10	89.6	1.0	41
11	88.7	1.1	40
12	86.5	0.8	54
13	85.4	1.4	6
14	79.3	5.2	2

**Total Catch** 191

Table 8. Mean relative weight and standard error values by size class for Norris Reservoir black crappie collected during the 2008 trap net sample.

Size Class	Mean Wr	Std. Error	N
5	98.2		1
6	94.9	1.3	7
7	95.4	1.2	18
8	92.5	1.4	23
9	90.4	2.3	20
10	92.5	1.3	23
11	86.8	3.6	4
12	89.0	0.5	2

**Total Catch** 98

Table 9. Mean relative weight and standard error values by size class for Norris Reservoir largemouth bass collected during the 2008 electrofishing sample.

Size Class	Mean Wr	Std. Error	N
7	87.2	2.7	5
8	87.2	3.4	3
9	81.3	1.8	10
10	85.8	2.5	12
11	84.0	1.6	13
12	82.4	1.3	29
13	81.9	1.3	26
14	85.0	1.7	35
15	85.8	1.8	16
16	84.5	1.3	20
17	82.6	2.8	7
18	81.7	3.4	4
19	77.7	4.4	2
20	82.5		1
21			
22	91.7		1

**Total Catch** 184

Table 10. Mean relative weight and standard error values by size class for Norris Reservoir smallmouth bass collected during all 2008 electrofishing samples.

<b>Size Class</b>	<b>Mean Wr</b>	<b>Std. Error</b>	<b>N</b>
7	87.786		1
8	78.986	5.486	3
9	81.634	2.690	7
10	80.484	2.454	9
11	77.918	1.528	13
12	83.228	1.591	17
13	80.938	2.370	13
14	83.033	3.034	11
15	82.517	2.060	12
16	85.571	3.151	11
17	80.611	2.140	8
18	80.069	6.971	4

**Total Catch** 109

Table 11. Mean relative weight and standard error values by size class for Norris Reservoir spotted bass collected during the 2008 electrofishing sample.

<b>Size Class</b>	<b>Mean Wr</b>	<b>Std. Error</b>	<b>N</b>
7	85.9	4.5	4
8	97.8	1.5	32
9	91.7	1.2	40
10	89.2	0.9	37
11	86.8	1.6	29
12	86.8	1.6	22
13	85.6	2.9	9
14	93.3	5.2	2
15	89.1	1.5	2

**Total Catch** 177

Table 12. Mean relative weight and standard error values by size class for Norris Reservoir striped bass collected during the 2008 winter gill net sample.

<b>Size Class</b>	<b>Mean Wr</b>	<b>Std. Error</b>	<b>N</b>
8	98.0		1
9			
10			
11	92.5	0.1	2
12			
13	94.7	3.8	3
14	101.9		1
15	100.9	2.7	2
16	94.9		1
17	96.3	2.1	3
18	99.0	2.7	3
19	92.6		1
20			
21	90.2	4.3	3
22	89.0	3.6	6
23	82.9	5.1	3
24	94.5	2.5	2
25	92.5	3.9	2
26			
27	82.3	3.2	3

Table 13. Mean relative weight and standard error values by size class for Norris Reservoir walleye collected during the 2008 winter gill net sample.

<b>Size Class</b>	<b>Mean Wr</b>	<b>Std. Error</b>	<b>N</b>
10	88.8	0.5	2
11	93.8	3.1	3
12	91.8	1.3	4
13	88.2		1
14			
15	89.5	1.9	8
16	88.0	1.0	19
17	91.3	1.0	46
18	90.3	0.9	28
19	85.5	1.2	27
20	85.3	2.2	14
21	78.5	2.1	5
22	86.5		1
23			
24	84.3	9.4	2

**Total Catch** 160

Table 14. Geometric means of Region IV's shad gill net catches from 2001 to 2008.

<b>Reservoir</b>	<b>Year</b>	<b>Alewife</b>	<b>Threadfin</b>	<b>Gizzard</b>
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 15. Summary of July 2008 Norris Reservoir water quality parameters at Clinch River Mile 82.

Depth (ft)	Temp F	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	78.4	286	8.5	8.1	C82	10.8	850	7/2/2008
3	78.4	286	8.5	7.3				
7	78.4	286	8.6	7.4				
10	78.4	286	8.6	7.3				
13	78.4	286	8.6	7.7				
16	78.3	286	8.7	7.5				
20	75.0	282	8.7	10.0				
23	70.3	280	8.7	10.8				
26	68.0	282	8.7	10.8				
30	64.8	289	8.6	8.4				
33	62.8	294	8.6	7.2				
36	58.8	296	8.5	7.1				
39	56.7	294	8.5	7.2				
43	54.7	296	8.4	7.1				
46	53.2	294	8.4	7.1				
49	52.5	294	8.3	7.1				
52	51.8	295	8.3	7.0				
56	51.4	296	8.3	7.2				
59	50.7	297	8.3	7.2				
62	50.4	299	8.2	6.9				
66	49.8	300	8.2	6.6				
69	49.6	301	8.2	6.7				
72	49.3	302	8.2	6.1				
75	49.1	302	8.2	6.3				
79	48.9	302	8.2	5.9				
82	48.7	303	8.2	5.8				
85	48.4	304	8.1	5.9				
89	48.4	305	8.1	5.6				
92	48.2	305	8.1	5.7				
95	48.0	305	8.1	6.0				
98	48.0	305	8.1	5.9				

Table 16. Summary of July 2008 Norris Reservoir water quality parameters at Clinch River Mile 88.

Depth (ft)	Temp F	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	78.8	289	8.6	7.9	C88	13.1	1006	7/2/2008
3	78.6	289	8.6	7.5				
7	78.6	289	8.6	7.7				
10	78.6	289	8.7	8.1				
13	78.6	290	8.7	8.4				
16	78.4	290	8.6	8.2				
20	78.3	290	8.6	8.4				
23	71.4	277	8.7	11.2				
26	68.7	285	8.7	10.9				
30	65.5	293	8.6	10.2				
33	63.3	298	8.5	9.6				
36	60.4	298	8.5	9.0				
39	57.7	299	8.4	8.7				
43	55.6	300	8.3	9.0				
46	54.0	298	8.3	8.7				
49	52.9	299	8.2	8.9				
52	52.2	300	8.2	8.9				
56	51.4	301	8.2	8.7				
59	51.1	301	8.2	8.7				
62	50.4	301	8.2	8.2				
66	50.0	302	8.1	8.3				
69	49.8	302	8.1	7.2				
72	49.3	304	8.1	7.1				
75	49.1	304	8.1	7.0				
79	48.7	304	8.1	7.0				
82	48.6	303	8.1	6.9				
85	48.2	303	8.1	6.7				
89	48.2	303	8.1	6.7				
92	48.0	304	8.1	6.7				
95	47.8	304	8.1	6.7				
98	47.7	304	8.1	6.6				



Table 17. Summary of July 2008 Norris Reservoir water quality parameters at Clinch River Mile 120.

Depth (ft)	Temp F	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	79.5	265	8.8	7.8	C120	11.5	618	7/2/2008
3	79.5	265	8.7	7.8				
7	79.5	265	8.7	7.9				
10	79.5	265	8.7	7.7				
13	79.5	265	8.7	7.8				
16	79.5	266	8.7	7.8				
20	79.5	266	8.7	7.2				
23	79.2	268	8.7	6.8				
26	72.1	301	8.5	4.2				
30	66.6	305	8.3	1.4				
33	63.5	303	8.3	1.3				
36	61.0	298	8.2	1.1				
39	57.6	291	8.2	1.5				
43	56.1	290	8.2	1.8				
46	54.5	288	8.1	2.3				
49	52.2	289	8.1	2.6				
52	51.3	290	8.1	4.0				
56	50.4	291	8.0	4.0				
59	50.0	292	8.0	3.7				
62	49.6	293	8.0	2.7				
66	49.3	295	8.0	1.4				
69	48.9	298	8.0	1.2				
72	48.7	298	7.9	1.2				
75	48.6	299	7.9	1.2				
79	48.4	300	7.9	1.2				
82	48.2	300	7.9	1.2				
85	48.0	301	7.9	1.2				
89	48.0	302	7.9	1.1				

Table 18. Summary of July 2008 Norris Reservoir water quality parameters at Powell River Mile 19.

Depth (ft)	Temp F	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	79.9	303	8.7	7.8	P19	10.5	1120	7/2/2008
3	79.7	303	8.7	8.3				
7	79.7	303	8.7	8.4				
10	79.5	303	8.7	8.2				
13	79.5	303	8.7	8.2				
16	79.0	304	8.7	8.1				
20	76.8	306	8.7	11.9				
23	72.3	317	8.7	13.2				
26	68.0	349	8.6	6.6				
30	64.8	370	8.4	2.7				
33	62.1	382	8.3	1.7				
36	59.9	366	8.3	1.9				
39	56.3	341	8.3	2.4				
43	55.4	335	8.2	2.7				
46	54.0	329	8.2	3.0				
49	53.2	327	8.2	3.2				
52	52.0	327	8.2	3.9				
56	51.3	327	8.2	4.4				
59	50.7	329	8.1	4.6				
62	50.2	330	8.1	5.1				
66	50.0	331	8.1	5.4				
69	49.6	332	8.1	5.5				
72	49.5	333	8.1	5.4				
75	49.5	334	8.1	5.4				
79	49.1	335	8.1	5.3				
82	48.7	337	8.1	5.5				
85	48.7	339	8.1	5.4				
89	48.4	338	8.1	5.6				
92	48.2	340	8.1	5.5				
95	48.0	343	8.0	5.3				
98	47.8	345	8.0	5.0				

Table 19. Summary of August 2008 Norris Reservoir water quality parameters at Clinch River Mile 82.

Depth (ft)	Temp F	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	84.0	282	8.5	7.7	C82	10.8	843	8/4/2008
3	84.0	283	8.4	7.7				
7	84.0	283	8.4	7.5				
10	84.0	283	8.3	7.6				
13	84.0	283	8.3	7.5				
16	84.0	283	8.3	7.7				
20	81.9	282	8.3	9.1				
23	79.3	283	8.3	10.1				
26	75.9	283	8.3	11.0				
30	72.5	286	8.3	10.9				
33	69.1	287	8.2	10.5				
36	66.9	289	8.1	10.3				
39	63.3	294	8.1	9.7				
43	61.3	294	8.0	9.3				
46	59.7	295	7.9	9.0				
49	57.9	294	7.9	8.9				
52	55.9	294	7.9	8.8				
56	55.0	295	7.8	8.8				
59	54.0	295	7.9	9.0				
62	52.7	296	7.8	9.3				
66	52.3	296	7.8	9.2				
69	52.0	297	7.8	9.3				
72	51.3	300	7.8	9.0				
75	50.7	303	7.7	8.6				
79	50.5	303	7.7	8.3				
82	50.2	304	7.7	8.0				
85	50.0	304	7.7	8.0				
89	49.6	305	7.7	7.8				
92	49.5	305	7.7	7.9				
95	49.3	304	7.7	7.9				
98	48.9	304	7.7	7.7				

Table 20. Summary of August 2008 Norris Reservoir water quality parameters at Clinch River Mile 88.

Depth (ft)	Temp F	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	84.6	275	8.1	7.1	C88	8.2	935	8/4/2008
3	84.6	276	8.1	7.2				
7	84.6	277	8.2	7.2				
10	84.4	277	8.2	7.4				
13	84.4	277	8.2	8.2				
16	82.8	262	8.2	8.8				
20	80.8	276	8.2	8.6				
23	78.6	299	8.1	8.4				
26	75.9	308	8.1	7.8				
30	72.9	309	8.0	7.8				
33	68.7	309	8.0	7.9				
36	65.8	305	7.9	7.6				
39	62.8	306	7.9	7.2				
43	61.0	305	7.8	7.3				
46	59.4	306	7.8	7.0				
49	56.8	303	7.7	6.3				
52	55.2	303	7.7	6.3				
56	54.1	301	7.7	6.2				
59	53.4	302	7.7	6.0				
62	52.7	302	7.7	6.0				
66	52.2	302	7.7	5.5				
69	51.4	305	7.7	4.9				
72	51.3	305	7.6	4.4				
75	50.7	305	7.6	4.2				
79	50.2	305	7.6	4.1				
82	50.0	304	7.6	4.0				
85	49.6	303	7.6	3.8				
89	49.3	302	7.6	3.7				
92	49.1	302	7.6	3.6				
95	48.9	302	7.5	3.5				
98	48.7	302	7.5	3.5				

Table 21. Summary of August 2008 Norris Reservoir water quality parameters at Clinch River Mile 120.

Depth (ft)	Temp F	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	84.4	256	8.5	7.9	C120	8.2	655	8/4/2008
3	84.4	256	8.5	7.7				
7	84.4	257	8.5	7.8				
10	84.4	257	8.5	7.9				
13	84.4	257	8.5	7.8				
16	83.5	265	8.5	8.0				
20	82.4	289	8.3	6.1				
23	80.4	320	8.2	3.4				
26	76.6	313	8.1	3.2				
30	72.1	299	8.0	2.9				
33	68.7	299	7.9	1.9				
36	66.4	302	7.9	0.8				
39	63.0	304	7.9	0.6				
43	60.8	302	7.8	0.5				
46	59.2	303	7.8	0.4				
49	57.2	299	7.8	0.4				
52	55.2	296	7.8	0.5				
56	54.1	297	7.8	0.4				
59	53.2	296	7.8	0.4				
62	52.5	297	7.8	0.4				
66	51.6	298	7.7	0.3				
69	51.1	299	7.7	0.3				
72	50.7	301	7.7	0.3				
75	50.2	302	7.7	0.3				
79	49.8	304	7.6	0.3				
82	49.5	305	7.6	0.2				
85	49.1	307	7.6	0.2				

Table 22. Summary of August 2008 Norris Reservoir water quality parameters at Powell River Mile 19.

Depth (ft)	Temp F	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	84.7	295	8.4	7.7	P19	9.2	1045	8/4/2008
3	84.4	295	8.4	7.7				
7	84.4	296	8.4	8.0				
10	84.4	296	8.3	8.7				
13	84.2	295	8.3	8.8				
16	82.8	296	8.3	9.1				
20	80.6	330	8.2	9.5				
23	79.2	372	8.1	7.6				
26	76.8	393	8.0	5.8				
30	73.2	376	7.9	5.7				
33	69.4	363	7.9	3.3				
36	66.6	360	7.8	1.5				
39	63.7	356	7.7	1.2				
43	61.2	360	7.7	1.0				
46	59.5	355	7.7	1.1				
49	56.8	344	7.7	1.3				
52	55.4	338	7.7	1.9				
56	54.0	334	7.7	2.3				
59	53.2	331	7.7	2.8				
62	52.5	330	7.7	3.1				
66	52.2	330	7.7	3.4				
69	51.4	330	7.6	3.7				
72	51.1	331	7.6	3.9				
75	50.7	332	7.6	3.8				
79	50.4	333	7.6	3.8				
82	50.2	334	7.6	3.8				
85	49.8	335	7.6	3.9				
89	49.6	338	7.6	3.9				
92	49.5	339	7.6	3.8				
95	49.1	342	7.6	3.4				
98	48.9	344	7.5	3.1				

Table 23. Summary of September 2008 Norris Reservoir water quality parameters at Clinch River Mile 82.

Depth (ft)	Temp F	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	82.2	282	8.2	7.2	C82	9.2	930	9/2/2008
3	82.2	282	8.3	7.1				
7	82.2	282	8.3	7.1				
10	82.2	282	8.2	7.4				
13	81.5	282	8.3	7.6				
16	81.0	281	8.2	7.4				
20	80.6	281	8.2	7.3				
23	80.2	281	8.2	7.3				
26	79.9	281	8.2	7.0				
30	78.6	282	8.1	7.1				
33	75.4	285	8.1	7.5				
36	72.3	288	8.1	7.5				
39	69.8	292	8.0	7.7				
43	67.5	293	7.9	6.5				
46	65.7	293	7.9	6.5				
49	63.7	295	7.8	6.3				
52	61.9	296	7.8	5.6				
56	60.3	298	7.8	5.1				
59	58.3	298	7.7	4.8				
62	57.0	299	7.7	4.5				
66	56.3	300	7.7	4.5				
69	55.2	303	7.7	4.1				
72	54.7	303	7.6	4.1				
75	54.1	304	7.6	3.8				
79	53.6	305	7.6	3.5				
82	52.9	309	7.6	3.3				
85	52.5	310	7.6	2.8				
89	52.2	310	7.5	2.6				
92	51.8	310	7.5	2.3				
95	51.3	308	7.5	2.3				
98	50.9	300	7.5	2.9				

Table 24. Summary of September 2008 Norris Reservoir water quality parameters at Clinch River Mile 88.

Depth (ft)	Temp F	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	82.9	273	8.3	7.8	C88	8.5	1030	9/2/2008
3	82.8	273	8.3	7.3				
7	82.8	273	8.3	7.3				
10	82.4	273	8.3	7.5				
13	81.0	274	8.3	7.5				
16	80.6	273	8.3	7.5				
20	80.4	272	8.3	7.2				
23	80.1	265	8.3	7.5				
26	79.7	262	8.3	7.2				
30	78.8	272	8.3	7.2				
33	75.2	303	8.1	7.6				
36	71.8	304	8.0	7.8				
39	69.8	306	8.0	7.5				
43	67.3	304	7.9	7.4				
46	64.4	305	7.9	5.3				
49	63.0	303	7.8	4.5				
52	61.7	304	7.8	3.5				
56	60.8	303	7.8	3.4				
59	59.7	304	7.8	3.3				
62	57.4	304	7.7	3.4				
66	55.8	306	7.7	3.5				
69	55.0	307	7.7	2.6				
72	54.5	308	7.7	1.9				
75	54.0	309	7.6	1.6				
79	53.4	309	7.6	1.3				
82	53.1	308	7.6	1.3				
85	52.5	307	7.5	1.3				
89	52.0	305	7.5	1.0				
92	51.6	304	7.5	1.1				
95	51.3	304	7.5	1.1				
98	51.1	304	7.5	1.2				

Table 25. Summary of September 2008 Norris Reservoir water quality parameters at Clinch River Mile 120.

Depth (ft)	Temp F	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	81.1	284	8.0	7.4	C120	9.8	720	9/2/2008
3	81.1	284	8.0	7.3				
7	81.1	284	7.9	7.3				
10	81.1	284	7.9	7.3				
13	81.1	283	7.9	7.0				
16	79.9	280	7.9	7.3				
20	79.5	282	7.9	6.9				
23	79.3	288	7.9	6.5				
26	79.0	300	7.9	5.7				
30	78.4	301	7.8	4.4				
33	76.6	302	7.7	1.9				
36	72.1	308	7.6	0.7				
39	70.0	309	7.5	0.7				
43	67.5	308	7.5	0.7				
46	66.0	311	7.4	0.7				
49	63.5	312	7.4	0.7				
52	61.5	313	7.4	0.7				
56	60.3	314	7.4	0.6				
59	58.6	314	7.4	0.6				
62	57.2	317	7.3	0.5				
66	55.9	314	7.3	0.5				
69	55.4	317	7.3	0.5				
72	54.9	324	7.3	0.5				
75	54.1	325	7.2	0.6				
79	52.5	326	7.2	0.6				

Table 26. Summary of September 2008 Norris Reservoir water quality parameters at Powell River Mile 19.

Depth (ft)	Temp F	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	83.5	308	8.5	7.6	P19	8.2	1150	9/2/2008
3	82.4	308	8.4	7.6				
7	82.4	308	8.5	7.6				
10	82.2	308	8.4	8.0				
13	80.6	307	8.4	8.2				
16	80.2	307	8.4	7.8				
20	80.1	309	8.4	7.7				
23	79.9	311	8.3	7.7				
26	79.3	309	8.3	6.9				
30	78.8	287	8.2	6.5				
33	76.6	407	8.0	3.8				
36	74.7	425	7.8	3.6				
39	70.9	399	7.8	3.7				
43	68.2	377	7.8	3.7				
46	66.0	371	7.8	3.8				
49	63.7	369	7.8	3.8				
52	61.9	366	7.7	3.4				
56	60.1	365	7.7	3.5				
59	58.6	360	7.7	0.4				
62	57.6	355	7.7	0.3				
66	56.7	351	7.7	0.2				
69	55.9	347	7.7	0.4				
72	55.0	344	7.7	0.6				
75	54.5	343	7.7	0.7				
79	54.0	341	7.6	0.6				
82	53.2	339	7.6	0.4				
85	52.7	337	7.6	0.2				
89	52.2	339	7.6	0.2				
92	51.6	339	7.6	0.2				
95	50.9	340	7.6	0.2				
98	50.7	342	7.6	0.2				

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

ELEVATION	MONTH	DAY	ELEVATION	MONTH	DAY	ELEVATION	MONTH	DAY
985.13	JANUARY	1	995.18	FEBRUARY	24	1014.86	APRIL	19
985.15	JANUARY	2	995.29	FEBRUARY	25	1014.90	APRIL	20
985.18	JANUARY	3	995.39	FEBRUARY	26	1014.96	APRIL	21
985.19	JANUARY	4	995.50	FEBRUARY	27	1015.02	APRIL	22
985.21	JANUARY	5	995.58	FEBRUARY	28	1015.08	APRIL	23
985.21	JANUARY	6	995.84	MARCH	1	1015.13	APRIL	24
985.20	JANUARY	7	996.01	MARCH	2	1015.16	APRIL	25
985.21	JANUARY	8	996.21	MARCH	3	1015.20	APRIL	26
985.27	JANUARY	9	996.64	MARCH	4	1015.27	APRIL	27
985.68	JANUARY	10	997.36	MARCH	5	1015.36	APRIL	28
986.33	JANUARY	11	998.46	MARCH	6	1015.45	APRIL	29
987.26	JANUARY	12	999.40	MARCH	7	1015.64	APRIL	30
987.86	JANUARY	13	1000.06	MARCH	8	1015.83	MAY	1
988.19	JANUARY	14	1000.68	MARCH	9	1015.98	MAY	2
988.39	JANUARY	15	1001.19	MARCH	10	1016.12	MAY	3
988.51	JANUARY	16	1001.58	MARCH	11	1016.19	MAY	4
988.63	JANUARY	17	1001.92	MARCH	12	1016.24	MAY	5
988.73	JANUARY	18	1002.19	MARCH	13	1016.27	MAY	6
988.80	JANUARY	19	1002.45	MARCH	14	1016.30	MAY	7
988.89	JANUARY	20	1002.76	MARCH	15	1016.37	MAY	8
988.92	JANUARY	21	1003.10	MARCH	16	1016.39	MAY	9
988.98	JANUARY	22	1003.48	MARCH	17	1016.41	MAY	10
989.01	JANUARY	23	1003.79	MARCH	18	1016.44	MAY	11
989.06	JANUARY	24	1004.33	MARCH	19	1016.45	MAY	12
989.08	JANUARY	25	1005.28	MARCH	20	1016.47	MAY	13
989.12	JANUARY	26	1006.28	MARCH	21	1016.50	MAY	14
989.15	JANUARY	27	1006.95	MARCH	22	1016.58	MAY	15
989.17	JANUARY	28	1007.36	MARCH	23	1016.64	MAY	16
989.19	JANUARY	29	1007.65	MARCH	24	1016.64	MAY	17
989.23	JANUARY	30	1007.83	MARCH	25	1016.66	MAY	18
989.31	JANUARY	31	1008.01	MARCH	26	1016.69	MAY	19
989.33	FEBRUARY	1	1008.14	MARCH	27	1016.67	MAY	20
989.54	FEBRUARY	2	1008.32	MARCH	28	1016.67	MAY	21
989.87	FEBRUARY	3	1008.48	MARCH	29	1016.68	MAY	22
990.29	FEBRUARY	4	1008.61	MARCH	30	1016.69	MAY	23
990.67	FEBRUARY	5	1008.70	MARCH	31	1016.62	MAY	24
991.36	FEBRUARY	6	1008.78	APRIL	1	1016.58	MAY	25
992.12	FEBRUARY	7	1008.87	APRIL	2	1016.53	MAY	26
992.83	FEBRUARY	8	1009.18	APRIL	3	1016.55	MAY	27
993.29	FEBRUARY	9	1009.67	APRIL	4	1016.62	MAY	28
993.53	FEBRUARY	10	1010.27	APRIL	5	1016.61	MAY	29
993.71	FEBRUARY	11	1011.04	APRIL	6	1016.58	MAY	30
993.86	FEBRUARY	12	1012.13	APRIL	7	1016.54	MAY	31
994.00	FEBRUARY	13	1012.85	APRIL	8	1016.49	JUNE	1
994.10	FEBRUARY	14	1013.30	APRIL	9	1016.43	JUNE	2
994.21	FEBRUARY	15	1013.61	APRIL	10	1016.35	JUNE	3
994.29	FEBRUARY	16	1013.92	APRIL	11	1016.31	JUNE	4
994.45	FEBRUARY	17	1014.06	APRIL	12	1016.29	JUNE	5
994.54	FEBRUARY	18	1014.25	APRIL	13	1016.24	JUNE	6
994.69	FEBRUARY	19	1014.41	APRIL	14	1016.20	JUNE	7
994.80	FEBRUARY	20	1014.52	APRIL	15	1016.11	JUNE	8
994.92	FEBRUARY	21	1014.62	APRIL	16	1016.00	JUNE	9
995.04	FEBRUARY	22	1014.69	APRIL	17	1015.88	JUNE	10
995.13	FEBRUARY	23	1014.75	APRIL	18	1015.77	JUNE	11

Table 28. Norris Reservoir water levels for 2008. (TVA)

ELEVATION	MONTH	DAY	ELEVATION	MONTH	DAY	ELEVATION	MONTH	DAY
1015.67	JUNE	12	1007.90	AUGUST	5	997.85	SEPTEMBER	28
1015.54	JUNE	13	1007.59	AUGUST	6	997.75	SEPTEMBER	29
1015.47	JUNE	14	1007.28	AUGUST	7	997.63	SEPTEMBER	30
1015.38	JUNE	15	1006.91	AUGUST	8	997.61	OCTOBER	1
1015.25	JUNE	16	1006.71	AUGUST	9	997.59	OCTOBER	2
1015.09	JUNE	17	1006.61	AUGUST	10	997.57	OCTOBER	3
1014.95	JUNE	18	1006.27	AUGUST	11	997.47	OCTOBER	4
1014.68	JUNE	19	1005.97	AUGUST	12	997.45	OCTOBER	5
1014.61	JUNE	20	1005.54	AUGUST	13	997.43	OCTOBER	6
1014.52	JUNE	21	1005.00	AUGUST	14	997.41	OCTOBER	7
1014.43	JUNE	22	1004.52	AUGUST	15	997.45	OCTOBER	8
1014.28	JUNE	23	1004.30	AUGUST	16	997.44	OCTOBER	9
1014.16	JUNE	24	1004.12	AUGUST	17	997.43	OCTOBER	10
1014.02	JUNE	25	1003.80	AUGUST	18	997.34	OCTOBER	11
1013.88	JUNE	26	1003.36	AUGUST	19	997.31	OCTOBER	12
1013.77	JUNE	27	1002.95	AUGUST	20	997.30	OCTOBER	13
1013.70	JUNE	28	1002.57	AUGUST	21	997.27	OCTOBER	14
1013.65	JUNE	29	1002.19	AUGUST	22	997.25	OCTOBER	15
1013.32	JUNE	30	1001.94	AUGUST	23	997.24	OCTOBER	16
1013.09	JULY	1	1001.69	AUGUST	24	997.22	OCTOBER	17
1012.86	JULY	2	1001.36	AUGUST	25	997.08	OCTOBER	18
1012.64	JULY	3	1001.08	AUGUST	26	997.06	OCTOBER	19
1012.51	JULY	4	1000.89	AUGUST	27	997.01	OCTOBER	20
1012.40	JULY	5	1000.73	AUGUST	28	996.96	OCTOBER	21
1012.32	JULY	6	1000.70	AUGUST	29	996.97	OCTOBER	22
1012.21	JULY	7	1000.58	AUGUST	30	996.89	OCTOBER	23
1012.06	JULY	8	1000.49	AUGUST	31	996.86	OCTOBER	24
1011.99	JULY	9	1000.38	SEPTEMBER	1	996.76	OCTOBER	25
1011.89	JULY	10	1000.31	SEPTEMBER	2	996.75	OCTOBER	26
1011.76	JULY	11	1000.20	SEPTEMBER	3	996.72	OCTOBER	27
1011.62	JULY	12	1000.09	SEPTEMBER	4	996.71	OCTOBER	28
1011.65	JULY	13	1000.01	SEPTEMBER	5	996.69	OCTOBER	29
1011.49	JULY	14	999.89	SEPTEMBER	6	996.68	OCTOBER	30
1011.40	JULY	15	999.79	SEPTEMBER	7	996.67	OCTOBER	31
1011.34	JULY	16	999.72	SEPTEMBER	8	996.67	NOVEMBER	1
1011.26	JULY	17	999.64	SEPTEMBER	9	996.66	NOVEMBER	2
1011.18	JULY	18	999.59	SEPTEMBER	10	996.63	NOVEMBER	3
1011.08	JULY	19	999.51	SEPTEMBER	11	996.61	NOVEMBER	4
1010.98	JULY	20	999.42	SEPTEMBER	12	996.60	NOVEMBER	5
1010.82	JULY	21	999.33	SEPTEMBER	13	996.57	NOVEMBER	6
1010.61	JULY	22	999.25	SEPTEMBER	14	996.55	NOVEMBER	7
1010.42	JULY	23	999.15	SEPTEMBER	15	996.55	NOVEMBER	8
1010.29	JULY	24	999.04	SEPTEMBER	16	996.54	NOVEMBER	9
1010.16	JULY	25	998.94	SEPTEMBER	17	996.52	NOVEMBER	10
1010.08	JULY	26	998.83	SEPTEMBER	18	996.50	NOVEMBER	11
1009.98	JULY	27	998.72	SEPTEMBER	19	996.47	NOVEMBER	12
1009.74	JULY	28	998.61	SEPTEMBER	20	996.57	NOVEMBER	13
1009.58	JULY	29	998.52	SEPTEMBER	21	996.62	NOVEMBER	14
1009.30	JULY	30	998.43	SEPTEMBER	22	996.77	NOVEMBER	15
1009.02	JULY	31	998.34	SEPTEMBER	23	996.84	NOVEMBER	16
1008.69	AUGUST	1	998.20	SEPTEMBER	24	996.85	NOVEMBER	17
1008.62	AUGUST	2	998.14	SEPTEMBER	25	996.90	NOVEMBER	18
1008.58	AUGUST	3	998.06	SEPTEMBER	26	996.92	NOVEMBER	19
1008.25	AUGUST	4	997.94	SEPTEMBER	27	996.93	NOVEMBER	20

Table 29. Norris Reservoir water levels for 2008. (TVA)

ELEVATION	MONTH	DAY
996.94	NOVEMBER	21
996.93	NOVEMBER	22
996.93	NOVEMBER	23
996.92	NOVEMBER	24
996.92	NOVEMBER	25
996.91	NOVEMBER	26
996.90	NOVEMBER	27
996.91	NOVEMBER	28
996.94	NOVEMBER	29
996.95	NOVEMBER	30
996.96	DECEMBER	1
996.98	DECEMBER	2
996.98	DECEMBER	3
997.02	DECEMBER	4
997.03	DECEMBER	5
997.02	DECEMBER	6
997.02	DECEMBER	7
997.03	DECEMBER	8
997.04	DECEMBER	9
997.49	DECEMBER	10
998.41	DECEMBER	11
999.35	DECEMBER	12
1000.22	DECEMBER	13
1000.60	DECEMBER	14
1000.50	DECEMBER	15
1000.29	DECEMBER	16
1000.12	DECEMBER	17
1000.39	DECEMBER	18
1000.65	DECEMBER	19
1000.76	DECEMBER	20
1000.81	DECEMBER	21
1001.08	DECEMBER	22
1001.32	DECEMBER	23
1001.26	DECEMBER	24
1001.12	DECEMBER	25
1000.99	DECEMBER	26
1000.93	DECEMBER	27
1000.96	DECEMBER	28
1000.90	DECEMBER	29
1000.85	DECEMBER	30
1000.75	DECEMBER	31

Table 30. Norris Reservoir fish habitat enhancement summary for 2008.

LOCATION	NEW SITES			RENOVATED SITES			EXPANDED SITES		
	NUMBER	UNITS	ACRES	NUMBER	UNITS	ACRES	NUMBER	UNITS	ACRES
Big Creek Mile 8.5 R*				1	80	1.60			
Big Creek Mile 8.4 R*				1	80	1.60			
Big Creek Mile 8.1 L*				1	57	1.14			
Big Creek Mile 8.75 L*				1	58	1.16			
Big Creek Mile 8.25 L*				1	40	0.80			
				5	315	6.30			

\*Christmas trees with block



Table 31. Length range and weighted mean length by age of striped bass from the 2008 Norris winter gill net sample.

AGE	Minimum length at capture	Weighted mean length at capture	Maximum length at capture	N
1	8.9	<b>10.7</b>	11.7	3
2	13.0	<b>16.3</b>	19.3	14
3	21.8	<b>22.5</b>	23.8	11
4	23.6	<b>25.4</b>	28.0	7
5	27.4	<b>27.4</b>	27.4	1
6				
7				
8	31.9	<b>31.9</b>	31.9	1

Table 32. Length range and weighted mean length by age of walleye from Norris Reservoir 2008 winter gill net sample.

AGE	Minimum length at capture	Weighted mean length at capture	Maximum length at capture	N
1	8.0	<b>12.1</b>	14.2	10
2	14.0	<b>16.6</b>	18.4	44
3	17.1	<b>18.3</b>	20.8	39
4	17.8	<b>18.6</b>	20.9	19
5	17.5	<b>19.0</b>	24.0	30
6	18.7	<b>20.6</b>	24.2	13
7	19.7	<b>19.9</b>	20.8	5
8				
9				
10				
11	21.1	<b>21.1</b>	21.1	1

## Figures

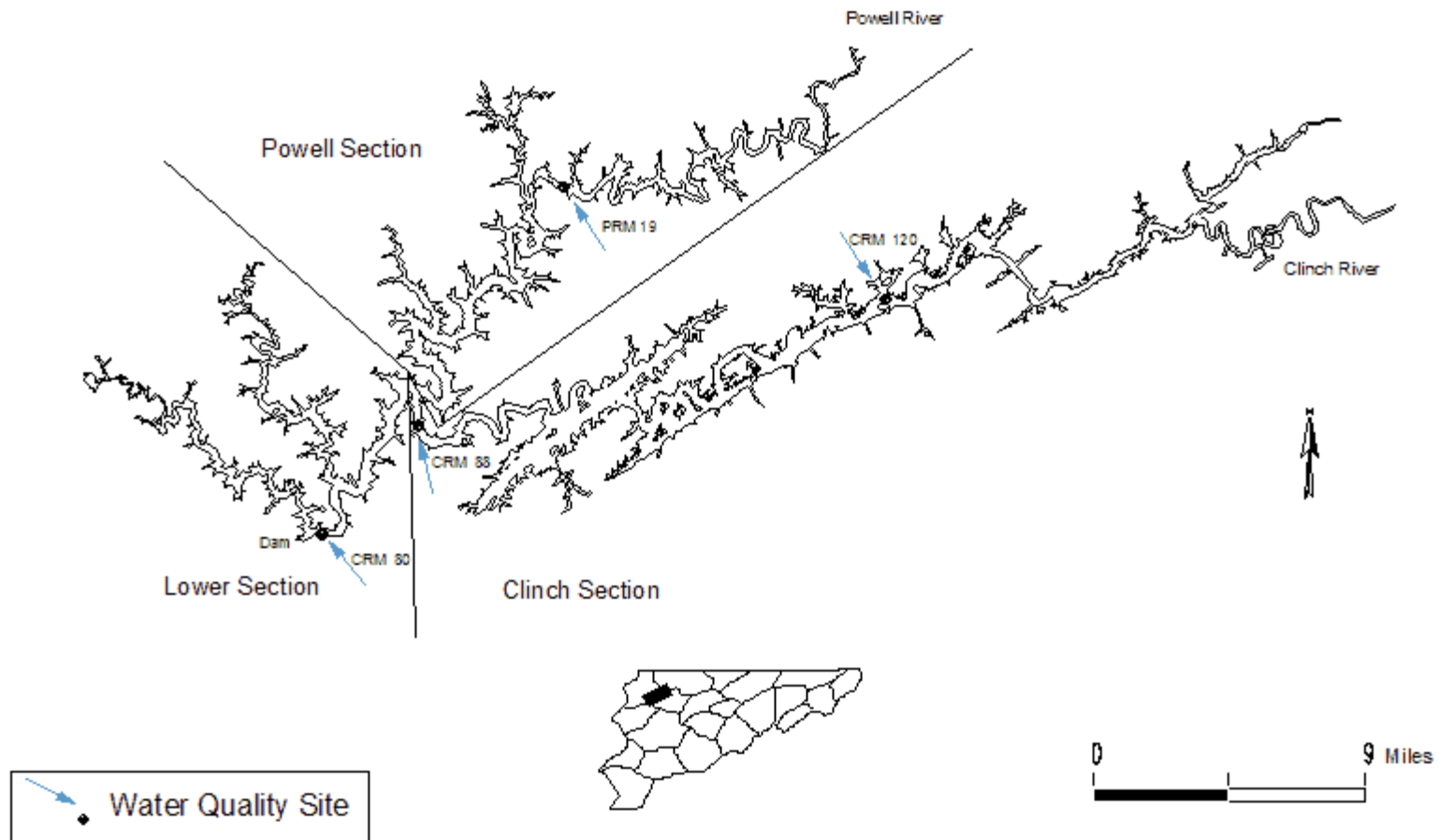


Figure 1. Water quality sites and the Clinch, Powell and lower section boundaries of Norris Reservoir in 2008.

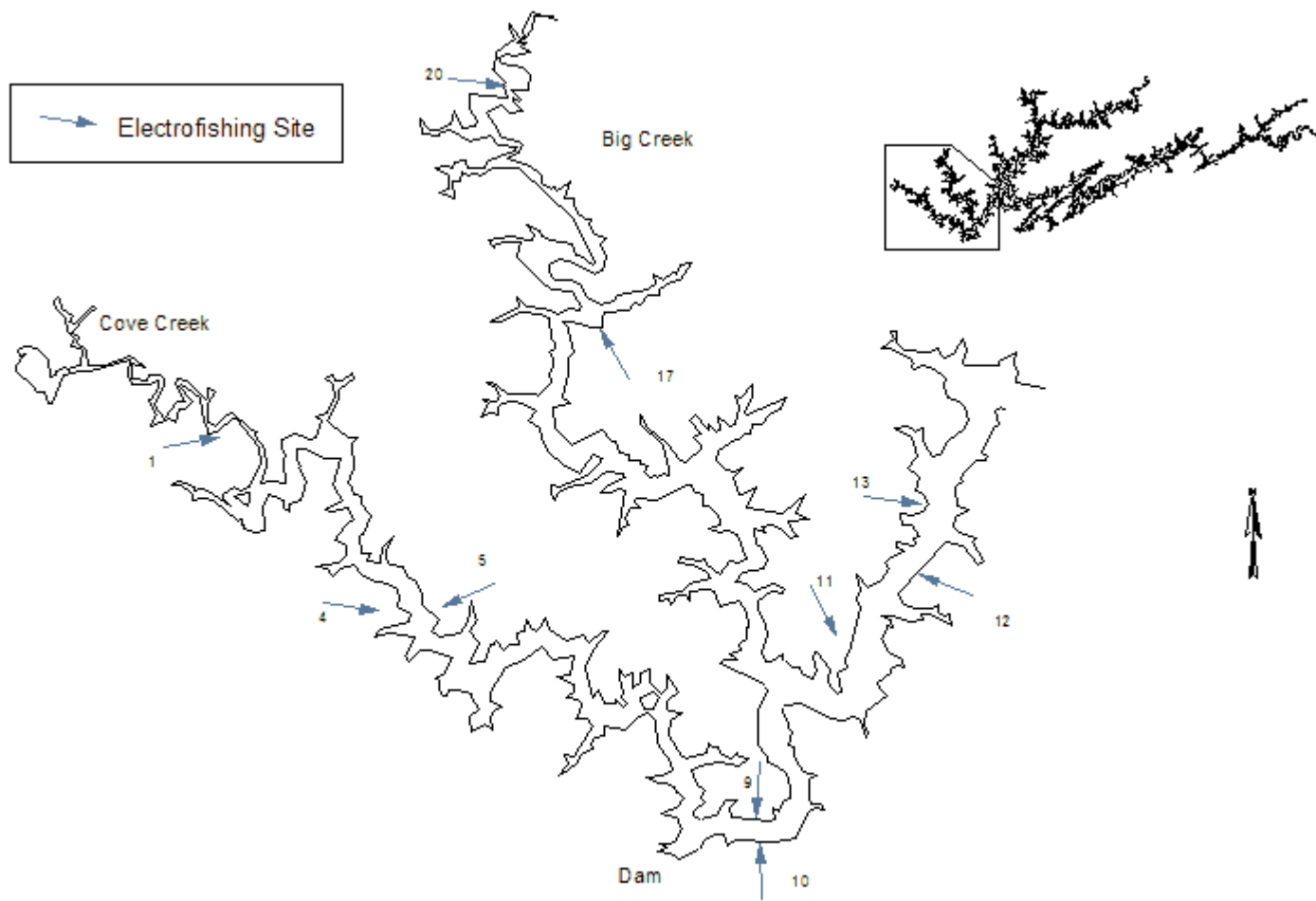


Figure 2. Electrofishing sites in the lower section of Norris Reservoir in 2008

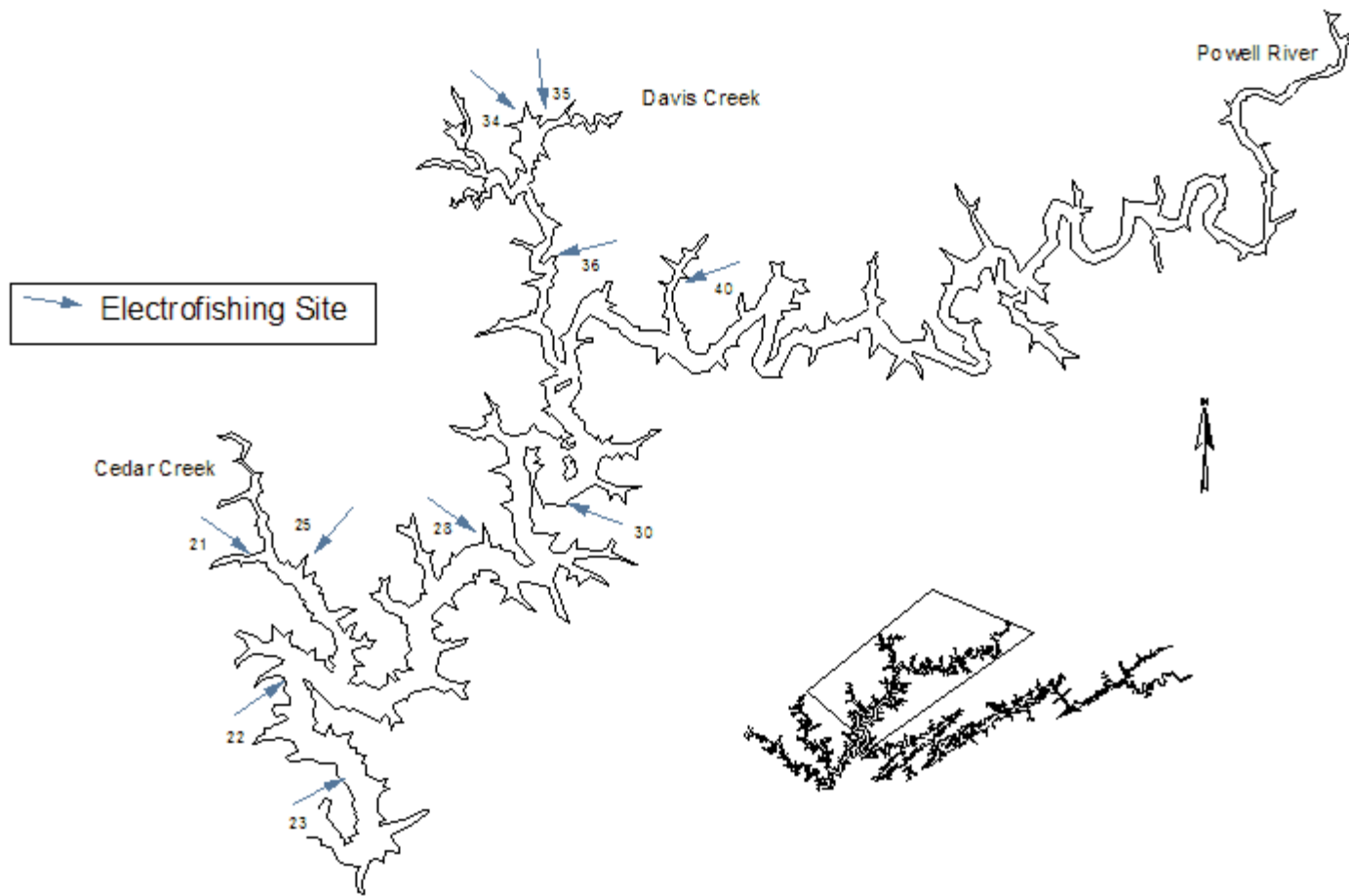


Figure 3. Electrofishing sites in the Powell section of Norris Reservoir in 2008.

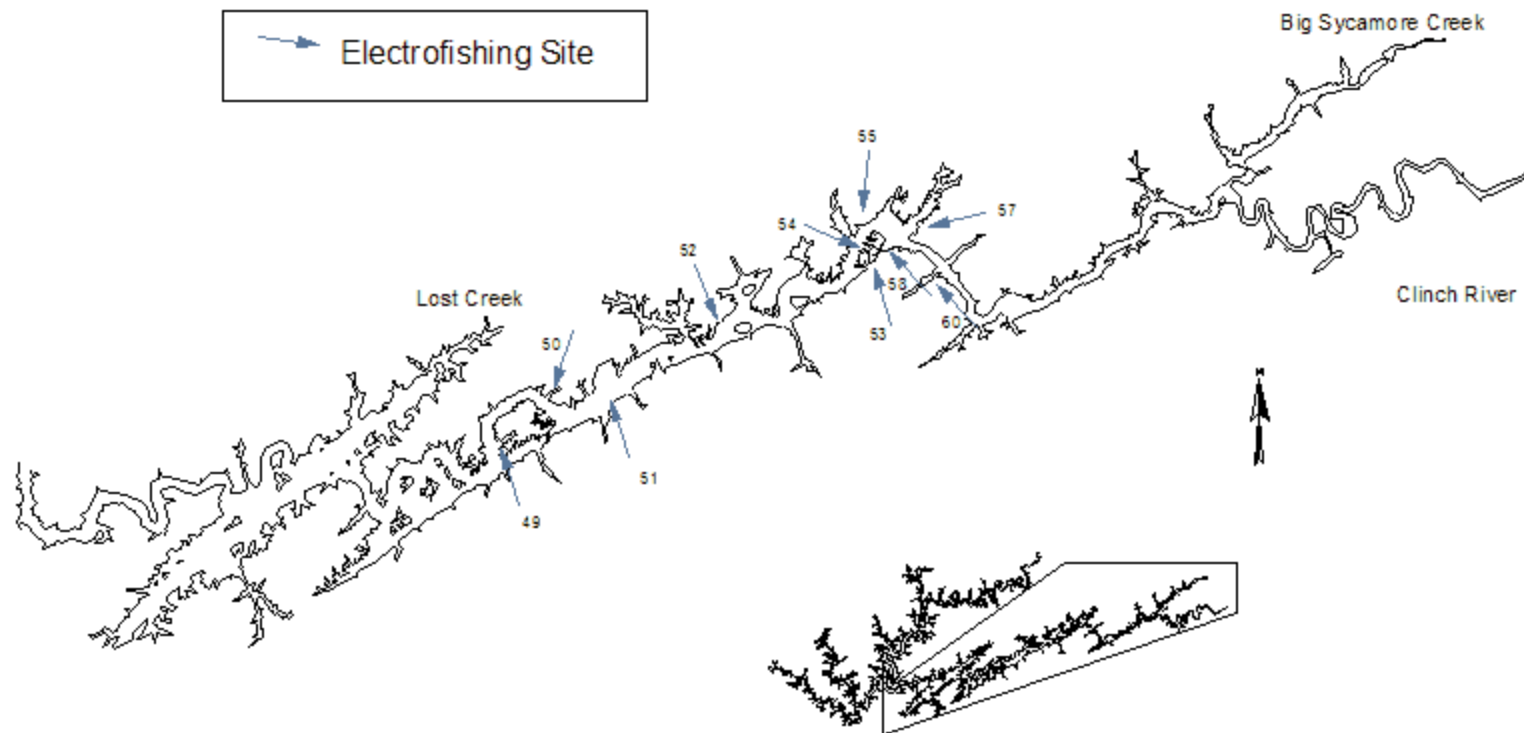


Figure 4. Electrofishing sites in the Clinch section of Norris Reservoir in 2008.

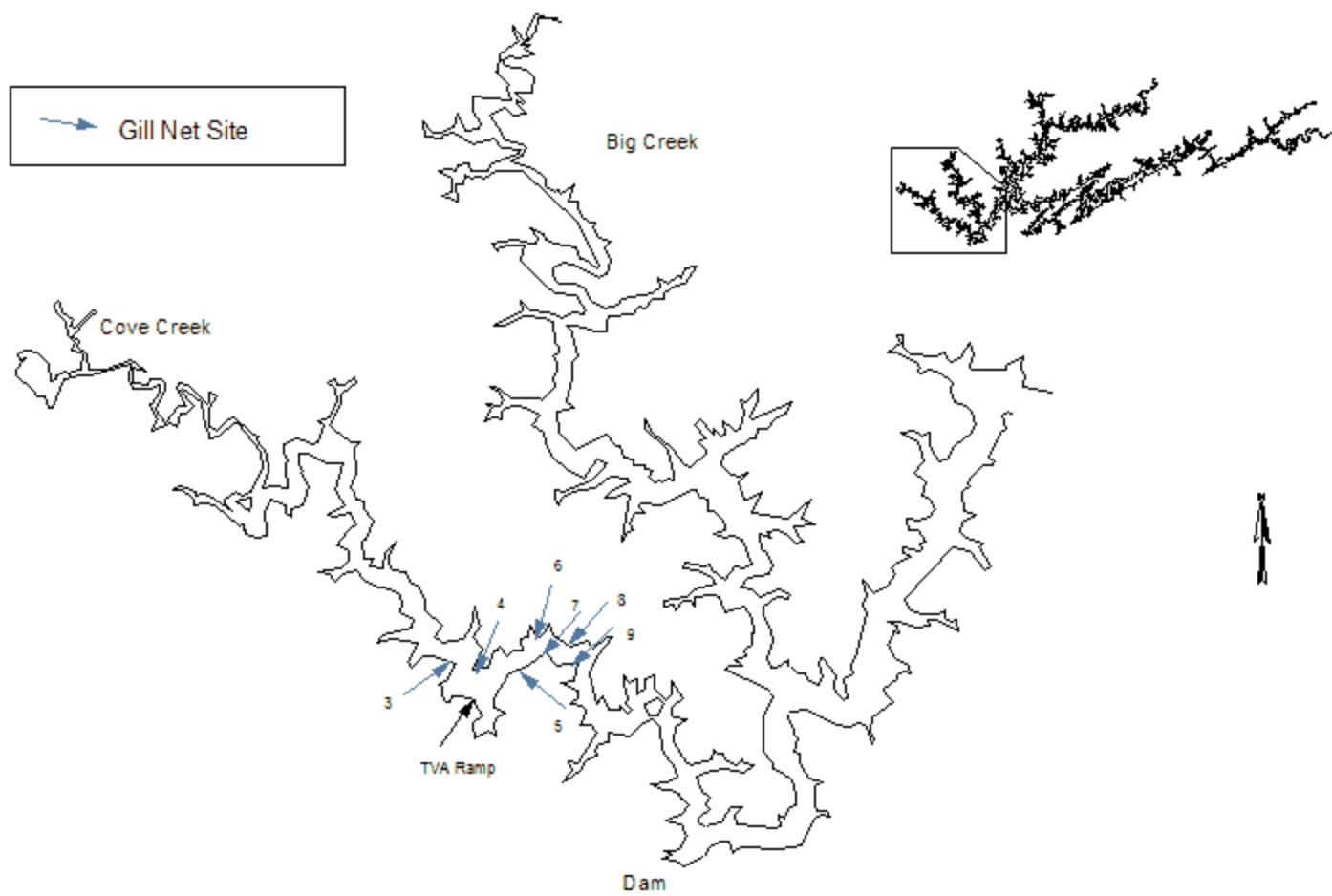


Figure 5. Gill net sites in the Cove Creek area of Norris Reservoir in 2008

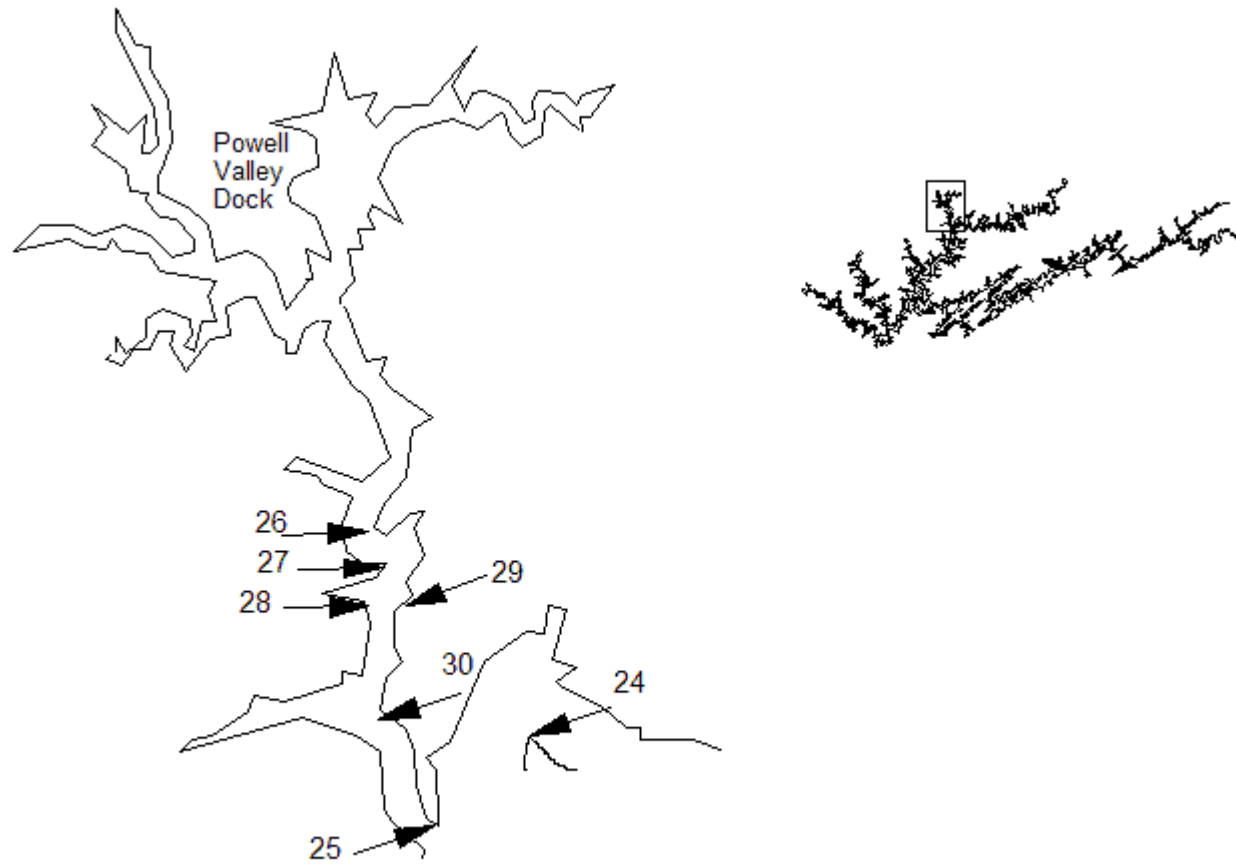


Figure 6. Winter gill net sites in the Davis Creek area of Norris Reservoir in 2008.



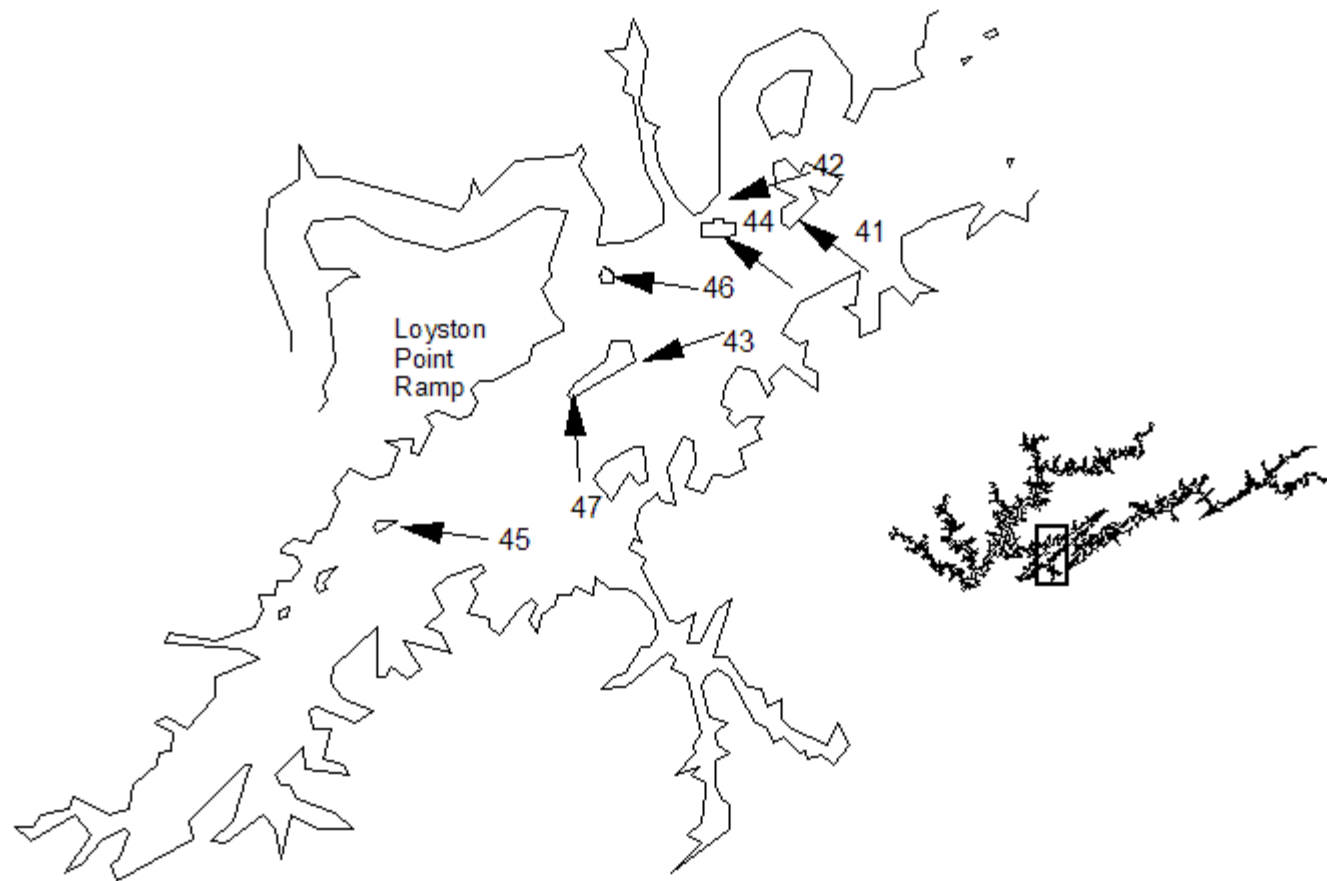


Figure 7. Winter gill net sites in the Loyston Sea area of Norris Reservoir in 2008.



Figure 8. Winter gill net sites in the upper Clinch area of Norris Reservoir in 2008.

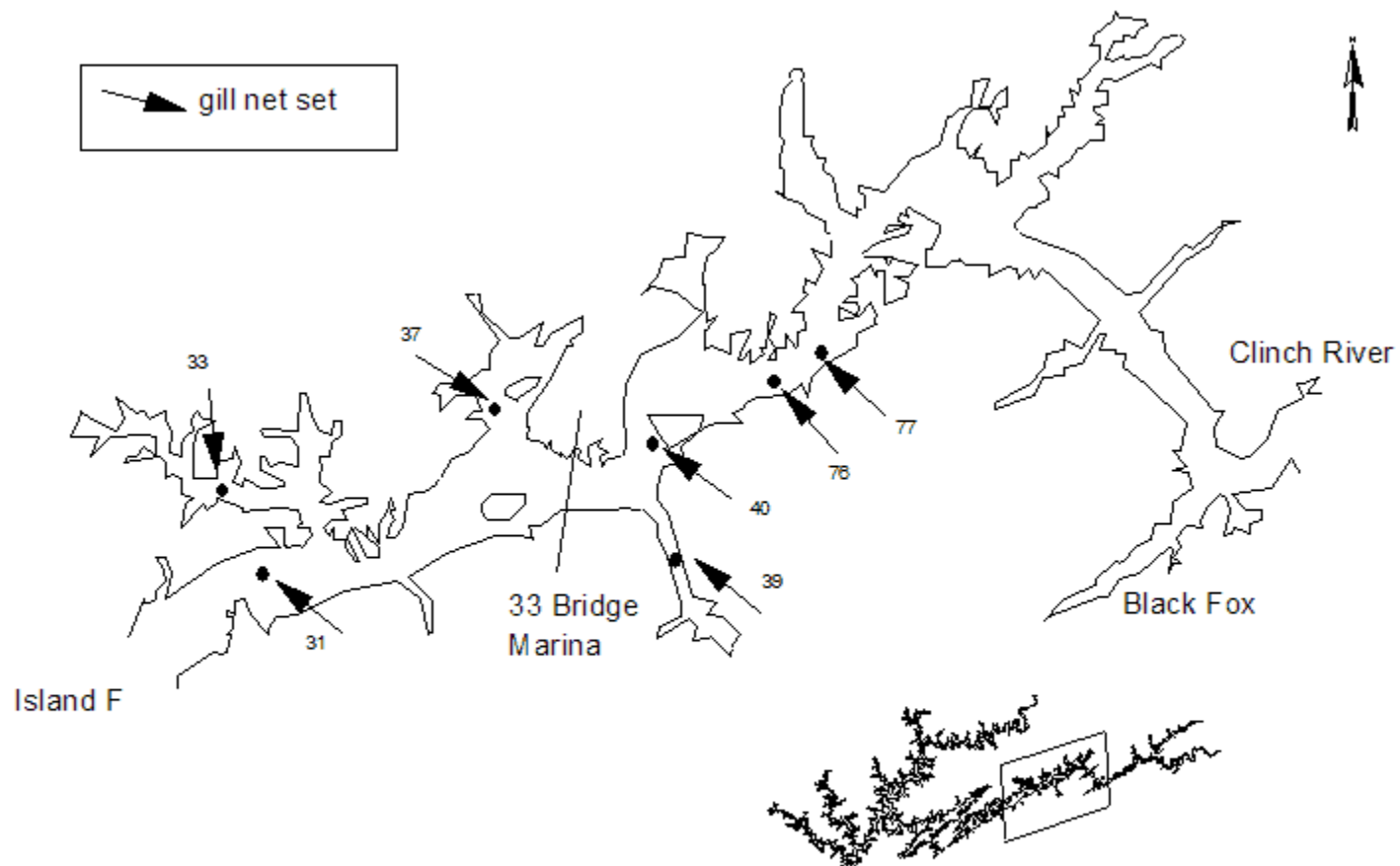


Figure 9. Summer shad gill net sites in the Clinch section of Norris Reservoir in 2008.

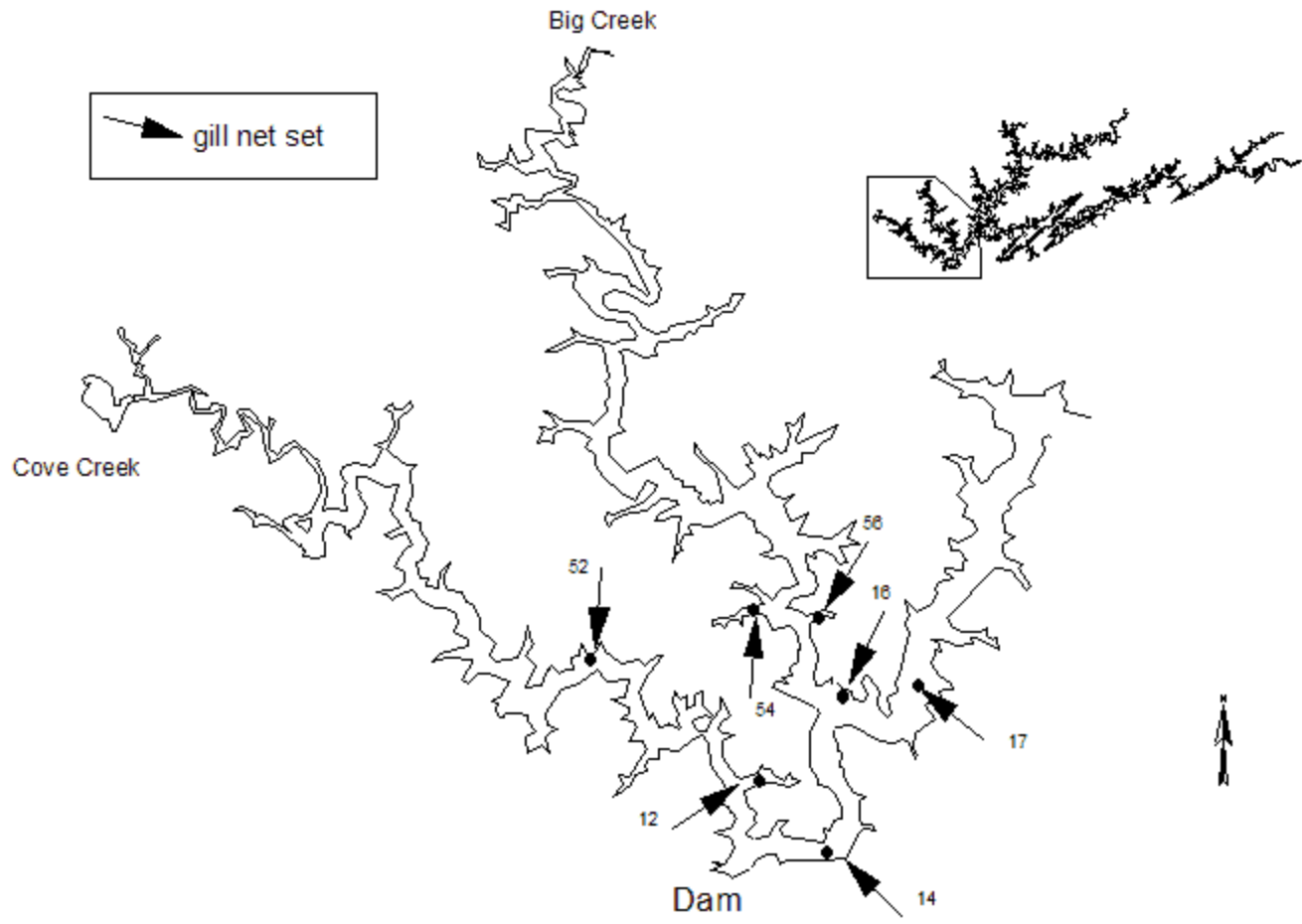


Figure 10. Summer shad gill net sites in the lower section of Norris Reservoir in 2008.

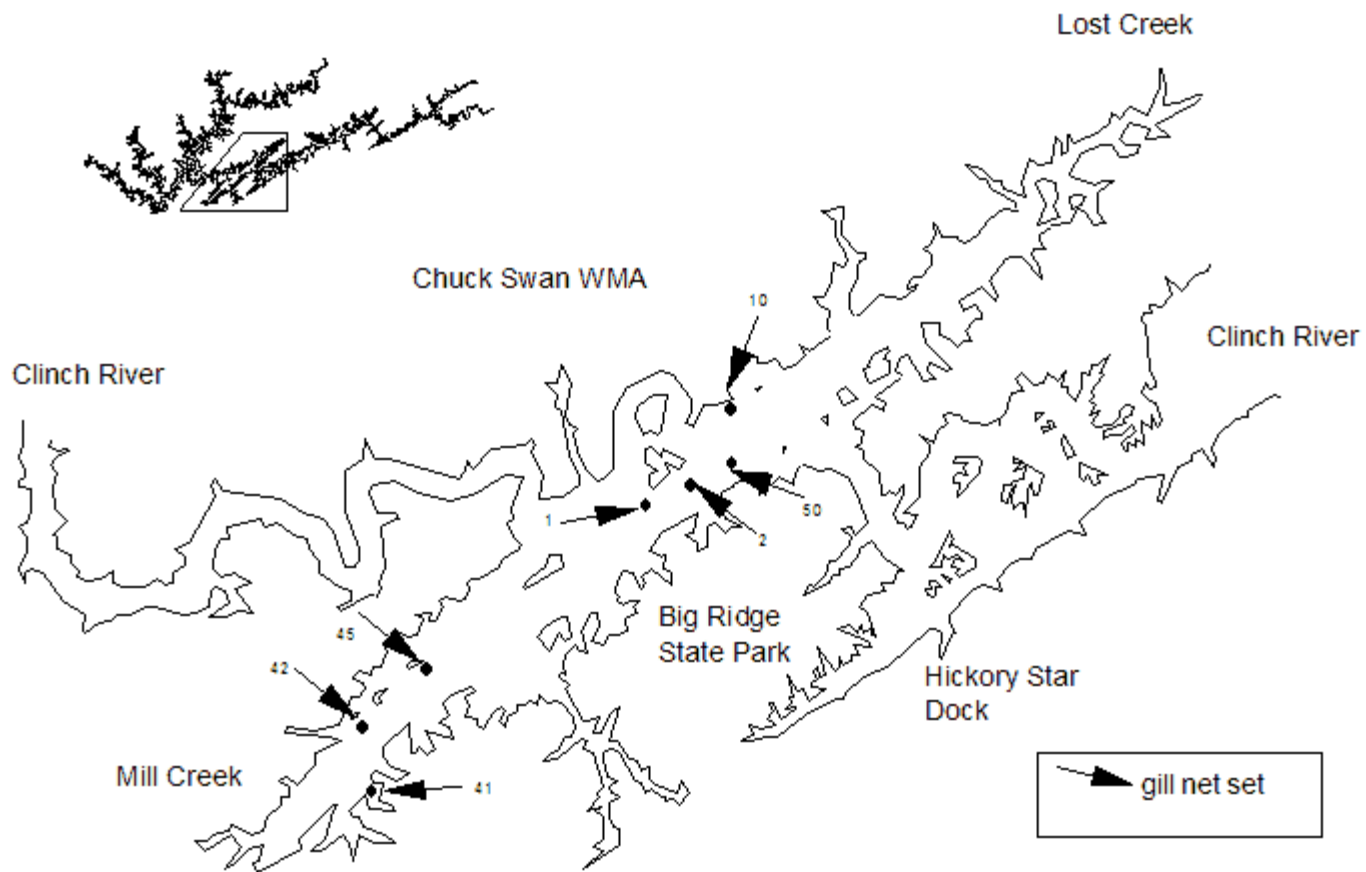


Figure 11. Summer shad gill net sites in the Loyston Sea area of Norris Reservoir in 2008.

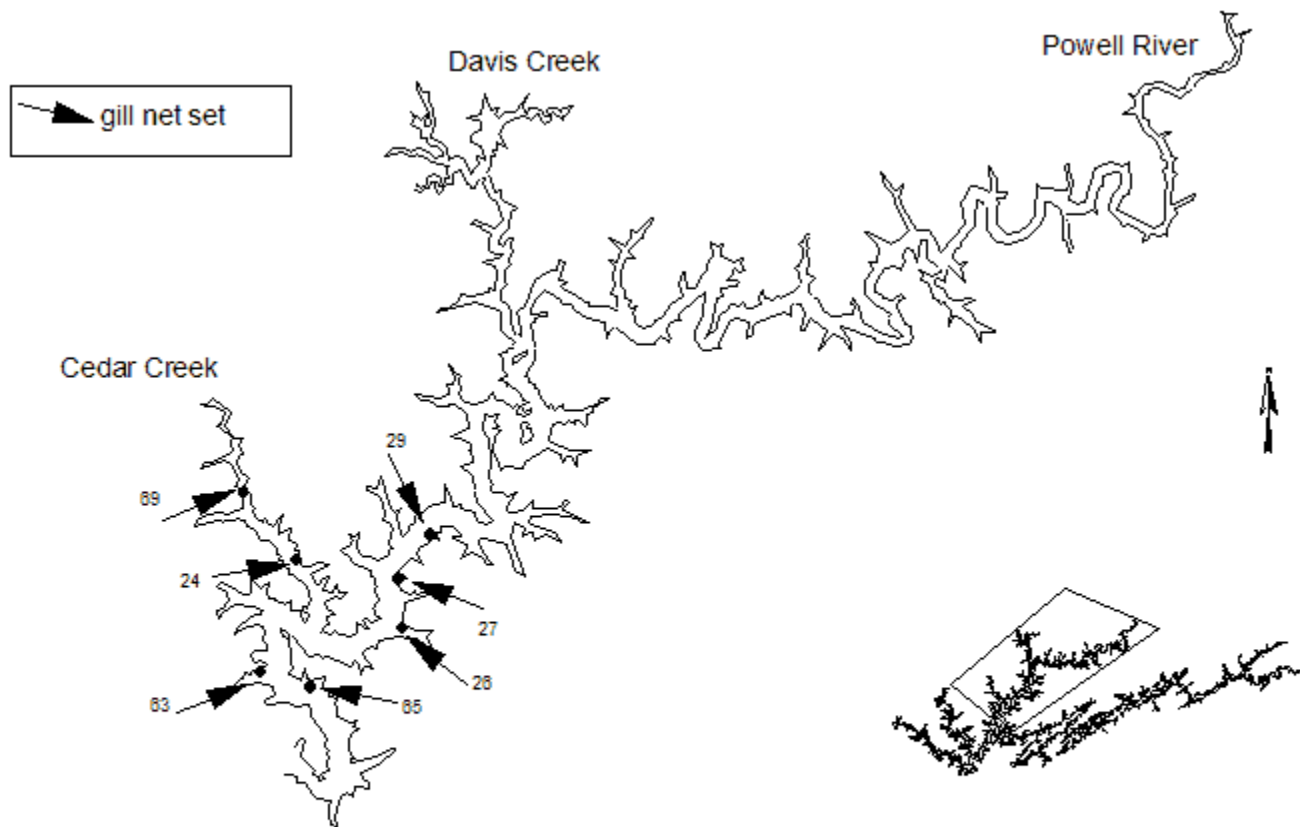


Figure 12. Summer shad gill net sites in the Powell Arm of Norris Reservoir in 2008.



Figure 13. Trap net sites in the Loyston Sea area of Norris Reservoir in 2008.

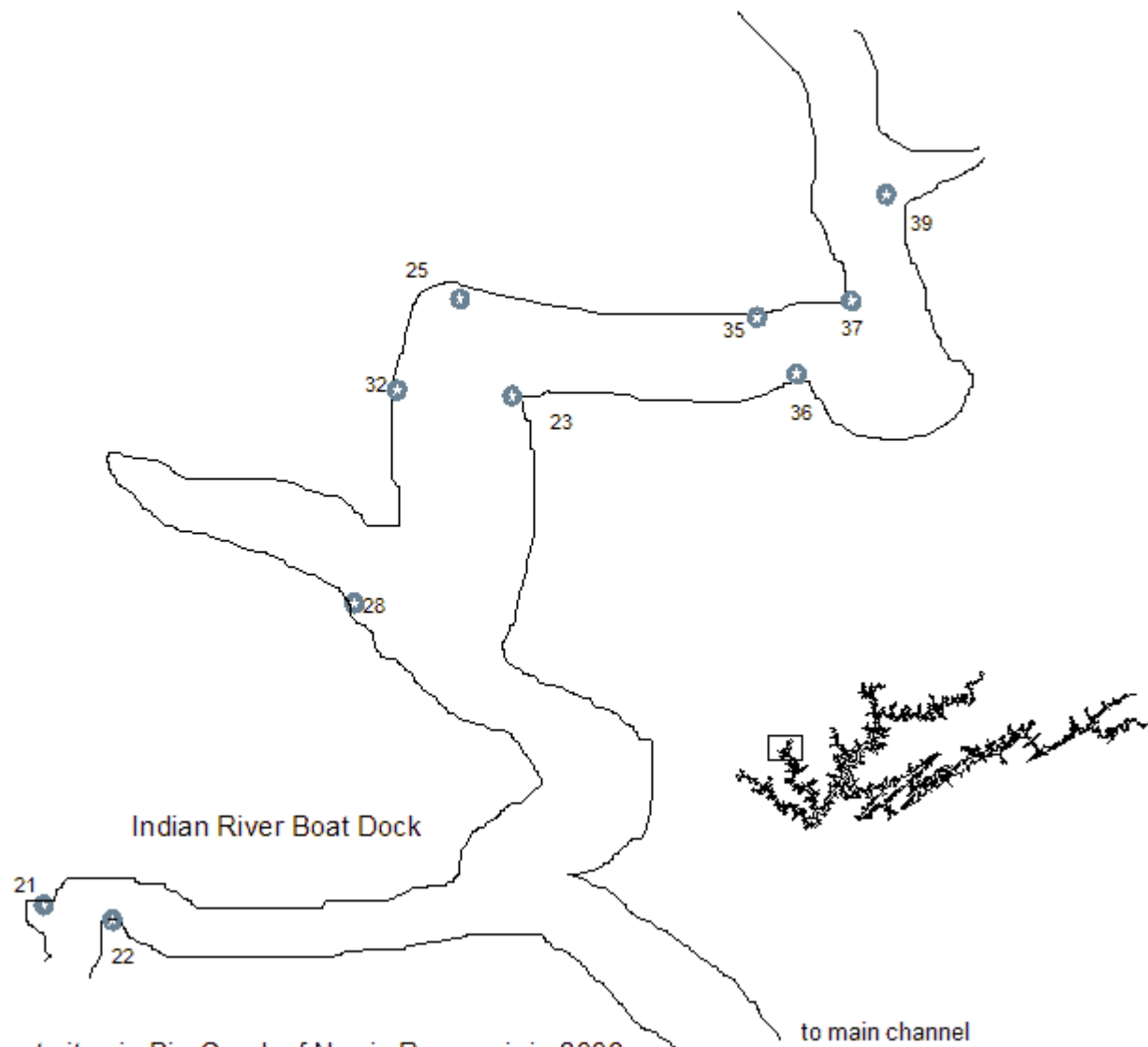


Figure 14. Trap net sites in Big Creek of Norris Reservoir in 2008



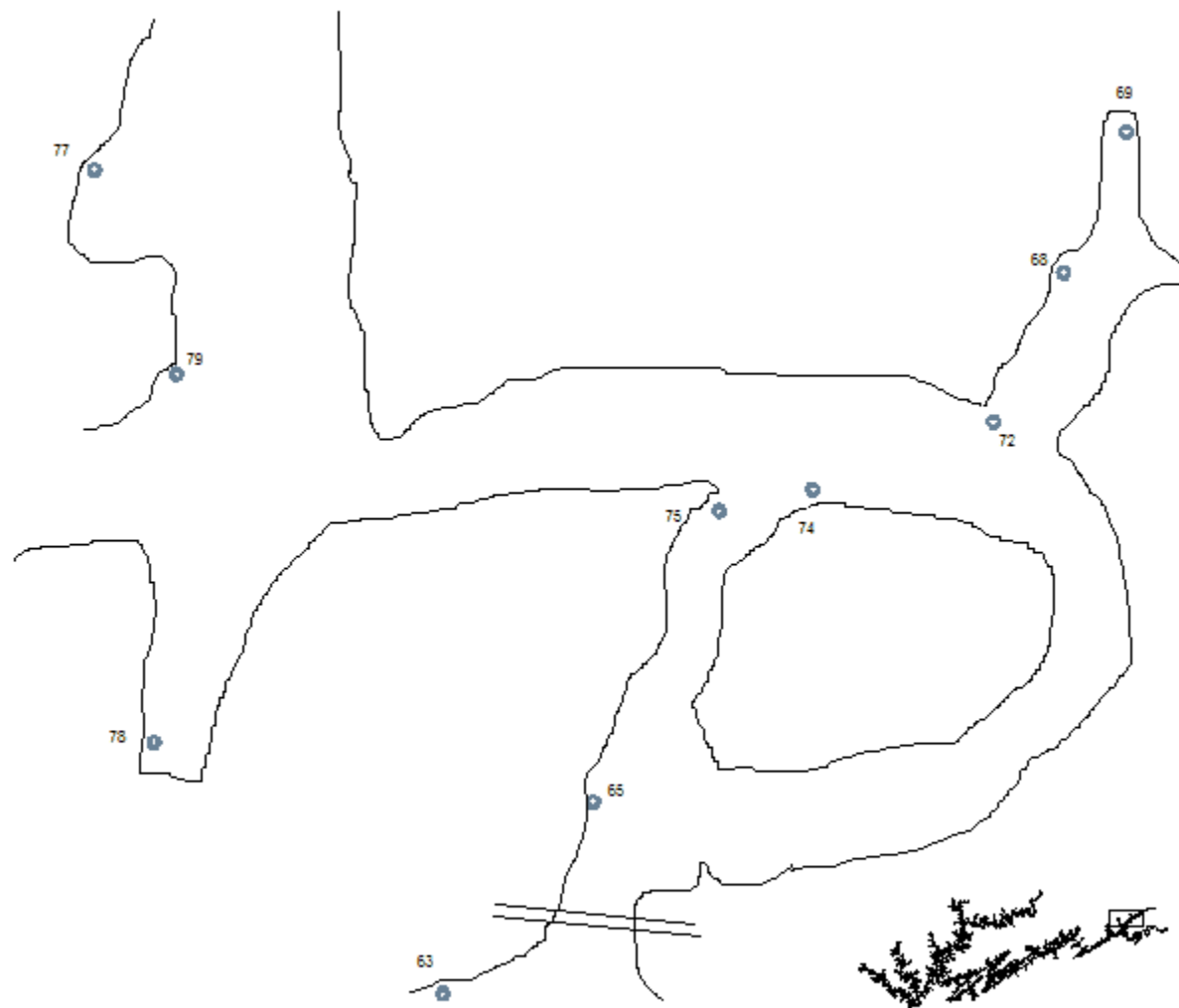


Figure 15. Trap net sites in the Big Sycamore Creek area of Norris Reservoir in 2008.

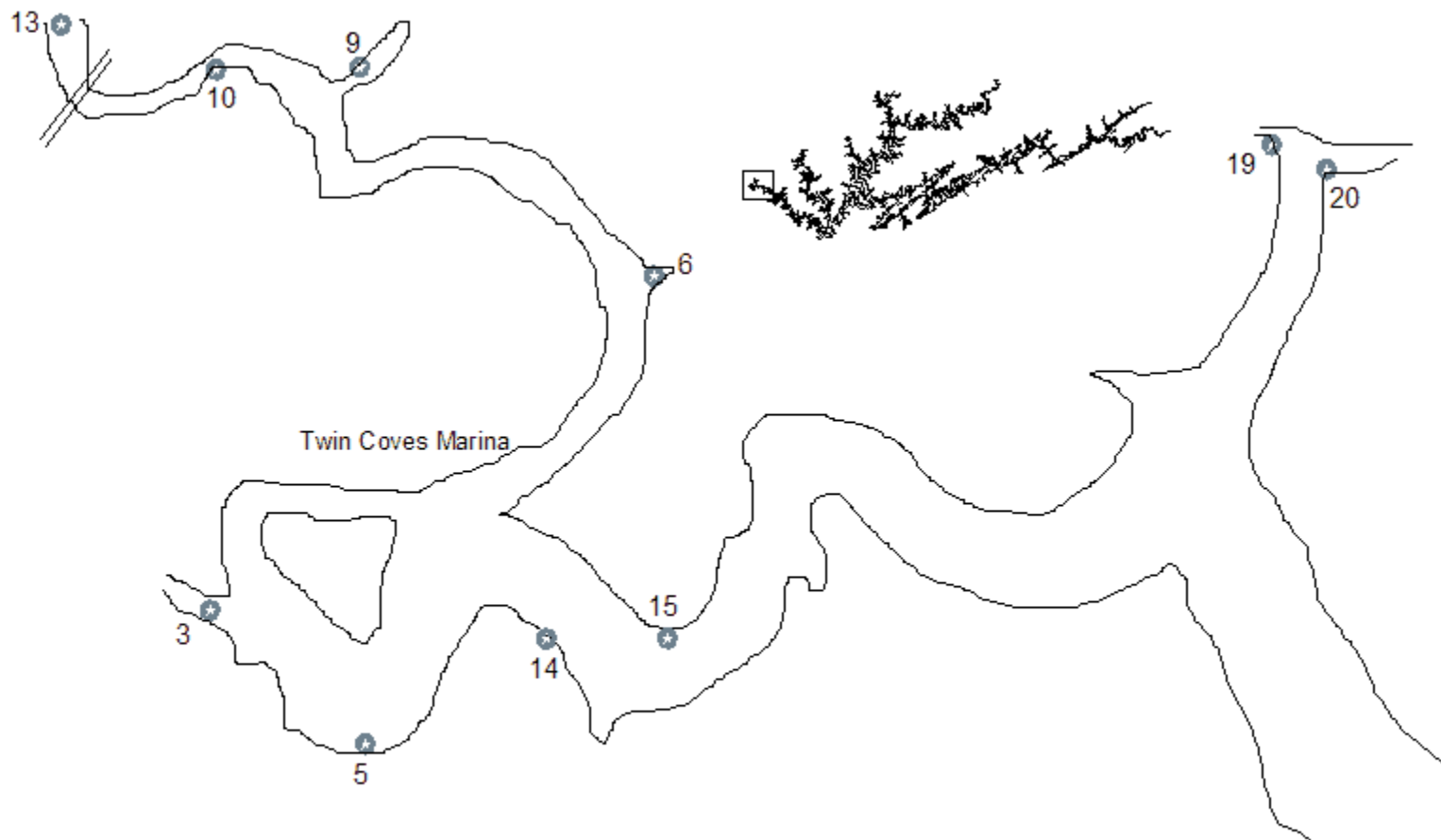


Figure 16. Trap net sites in the Cove Creek area of Norris Reservoir in 2008.

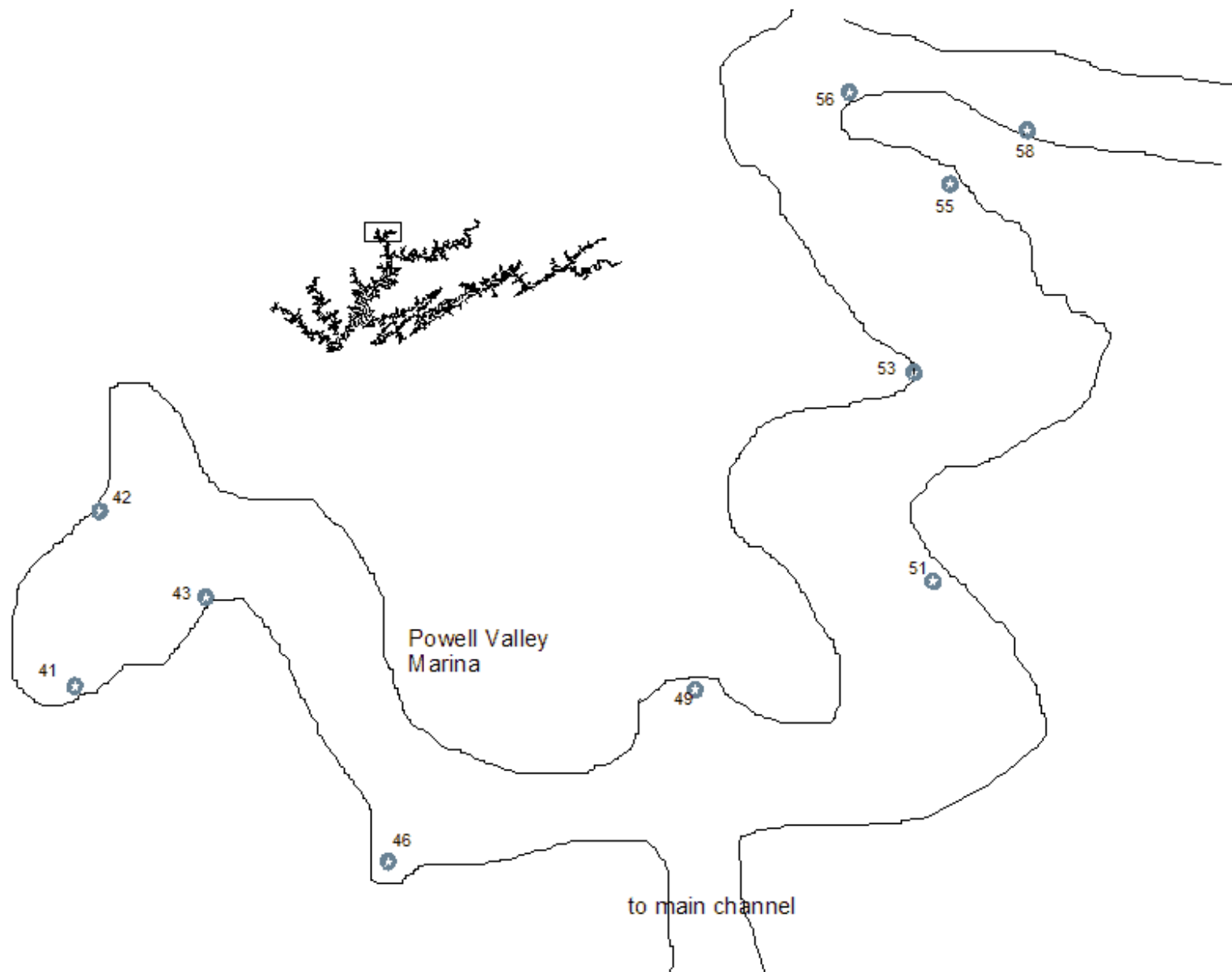


Figure 17. Trap net sites in the Davis Creek area of Norris Reservoir in 2008.

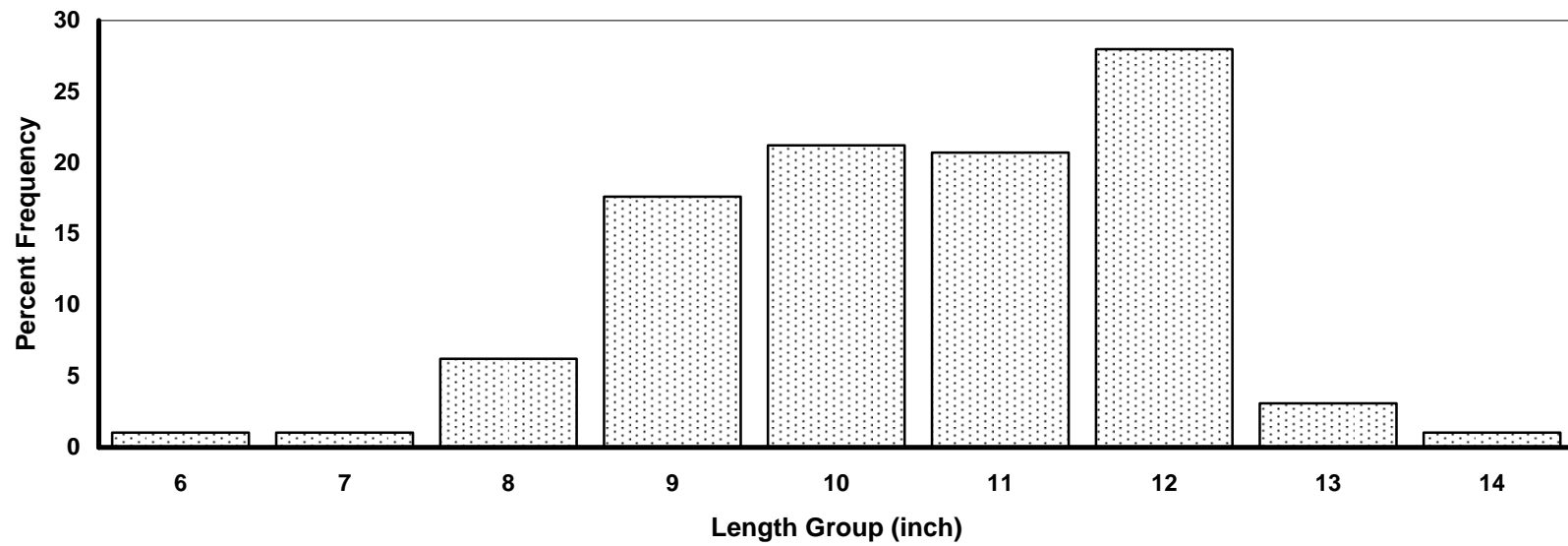


Figure 18. Norris Reservoir black crappie length frequency by percent for the 2008 electrofishing sample (n=193).

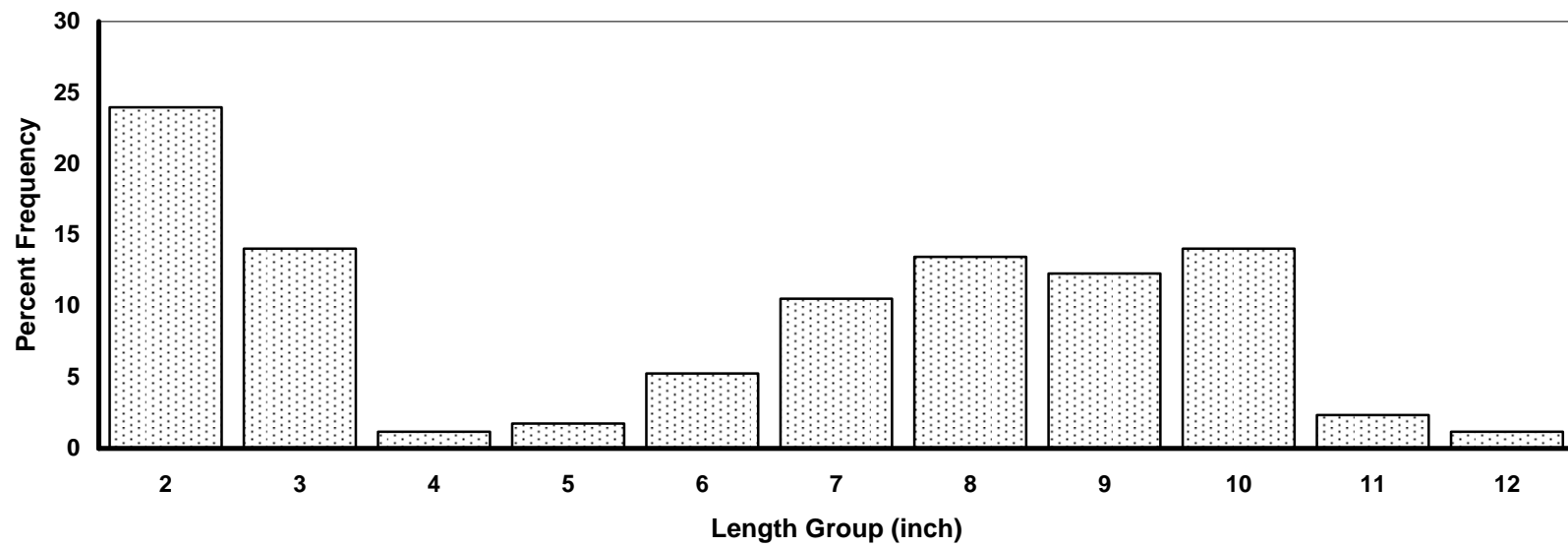


Figure 19. Norris Reservoir black crappie length frequency by percent for the 2008 trap net sample (n=171).

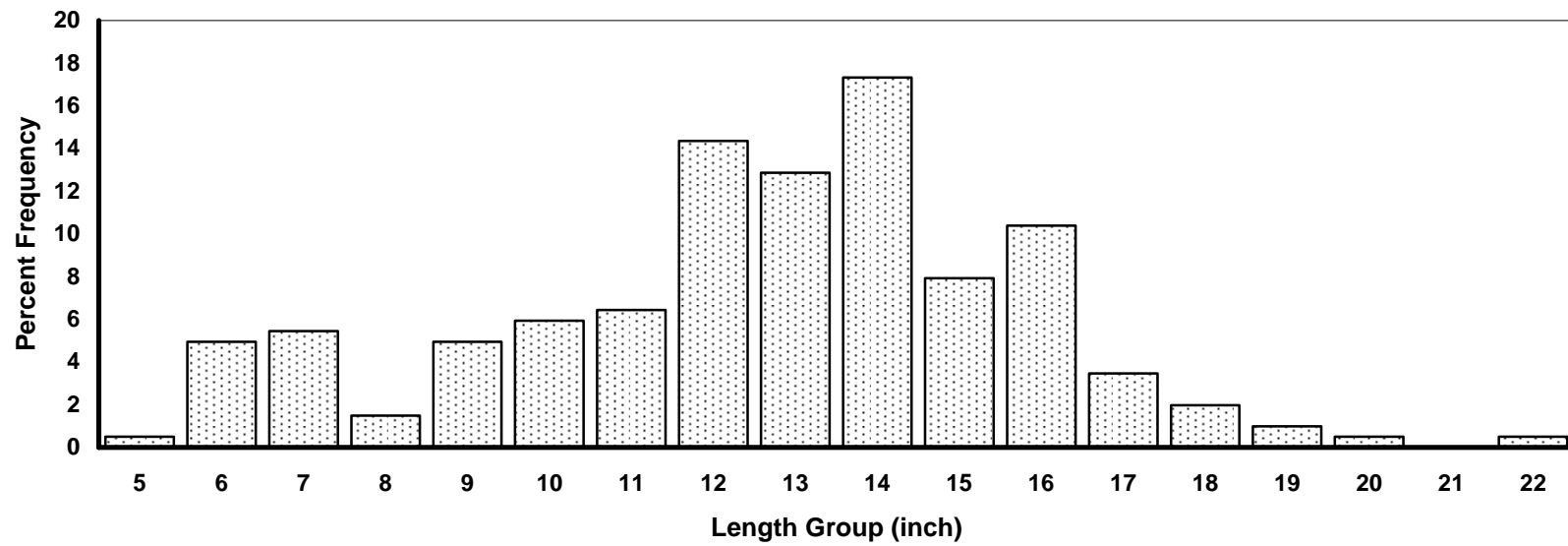


Figure 20. Norris Reservoir largemouth bass length frequency by percent for the 2008 electrofishing sample (n=202).

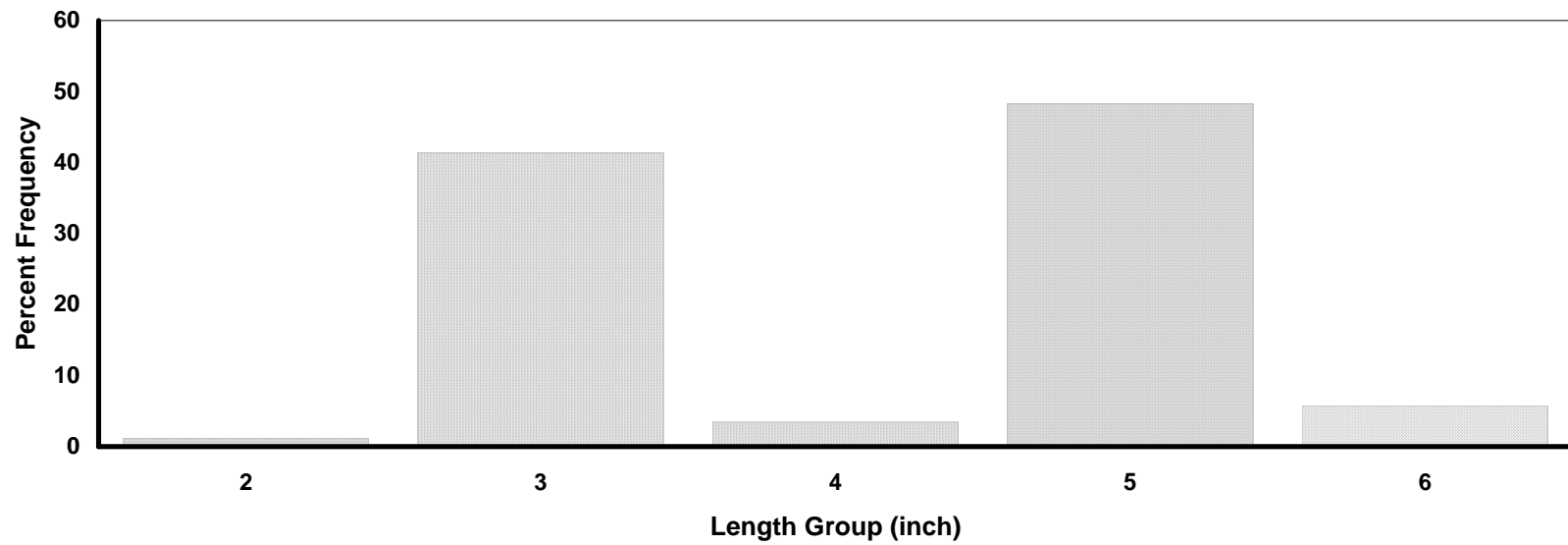


Figure 21. Norris Reservoir alewife length frequency by percent for 2008 shad gill netting sample (n=87).

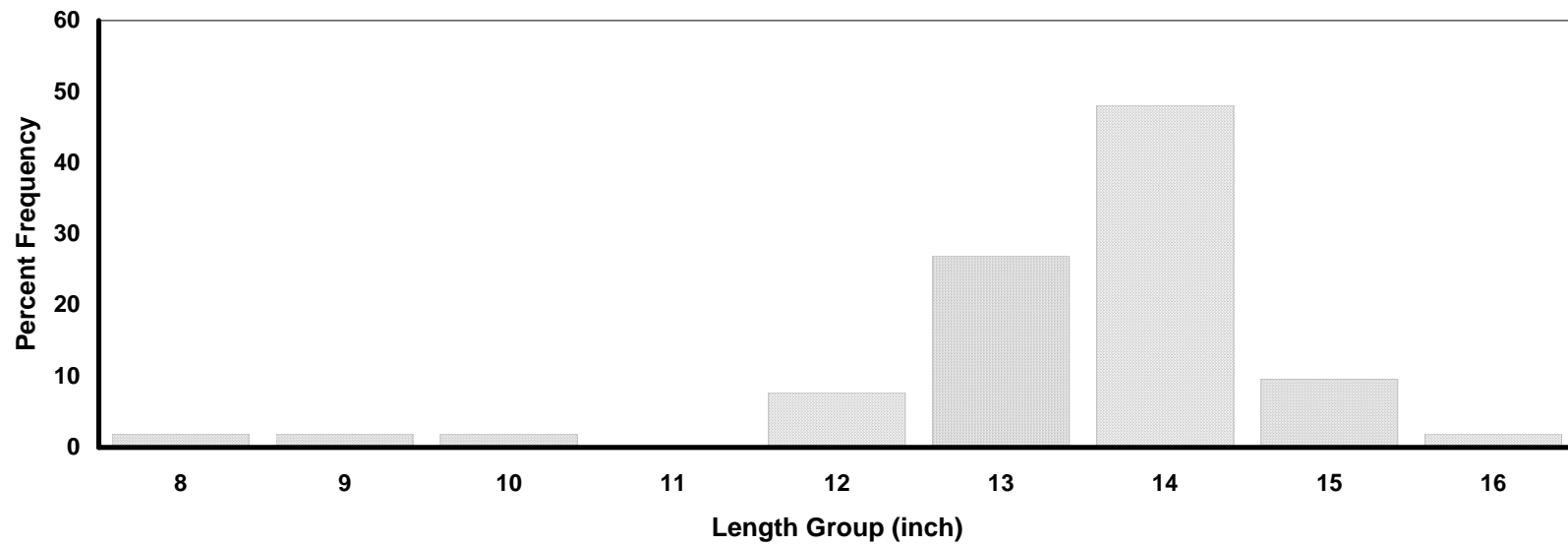


Figure 22. Norris Reservoir gizzard shad length frequency by percent for 2008 shad gill netting sample (n=52).



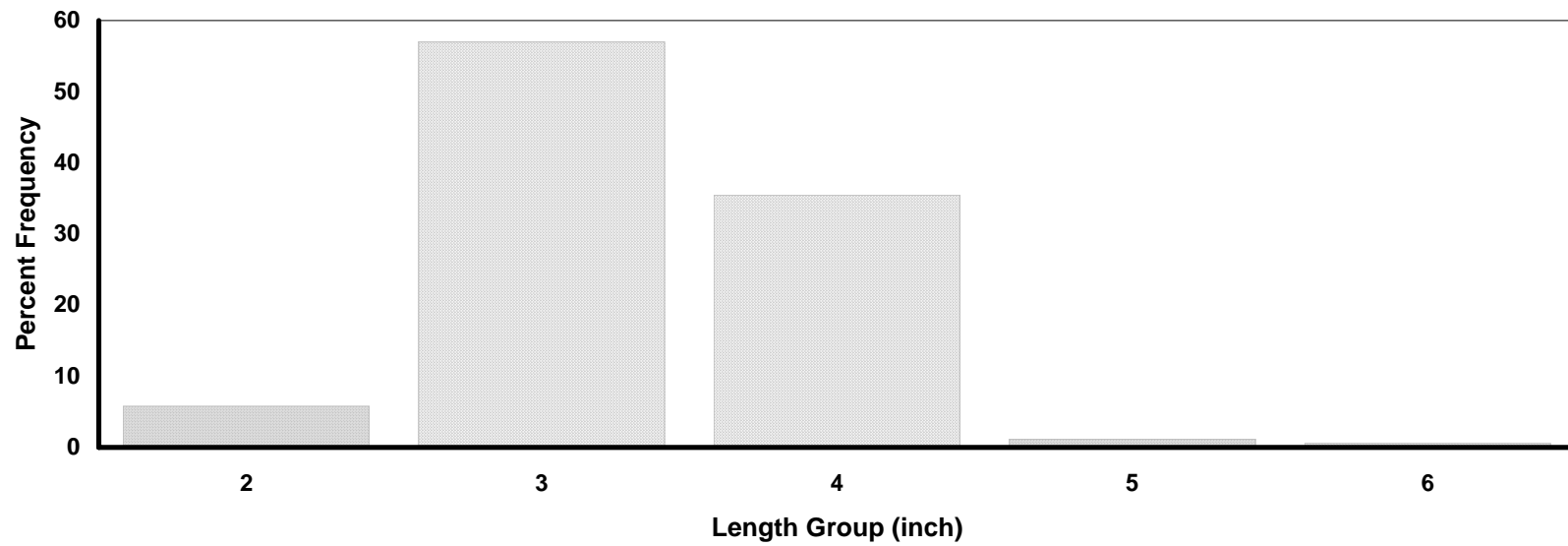


Figure 23. Norris Reservoir threadfin shad length frequency by percent for 2008 shad gill netting sample (n=172).

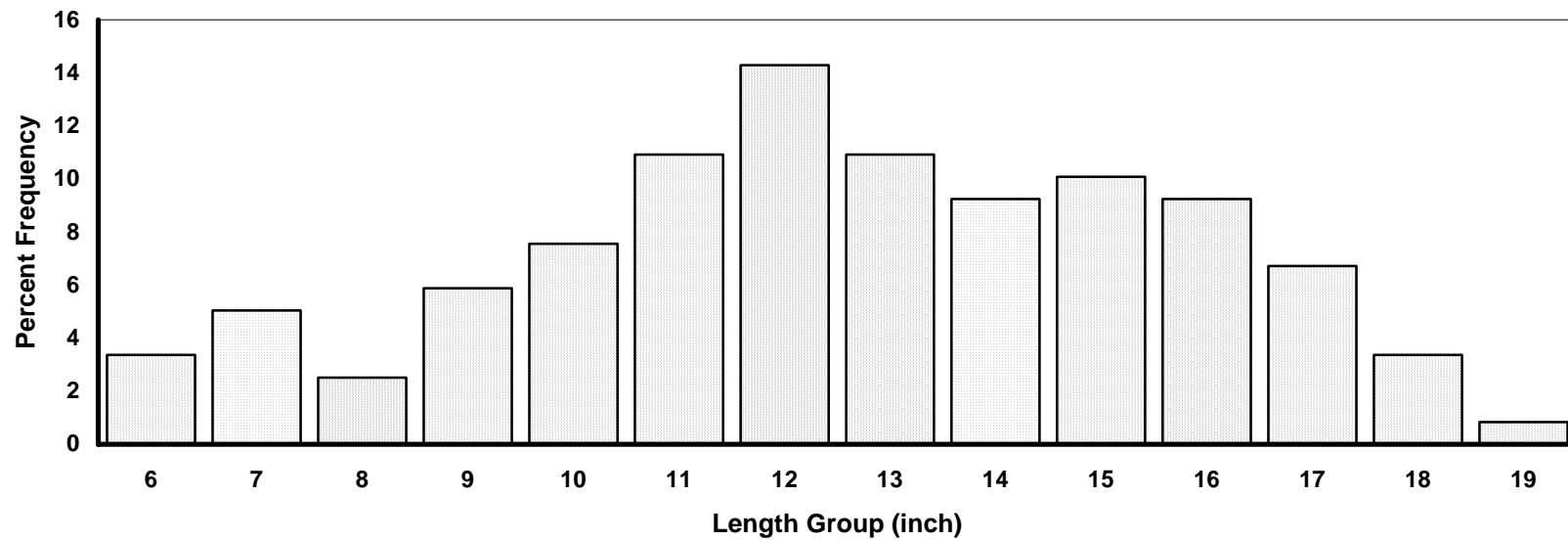


Figure 24. Norris Reservoir smallmouth bass length frequency by percent for the 2008 standard and targeted electrofishing samples combined (n=119).

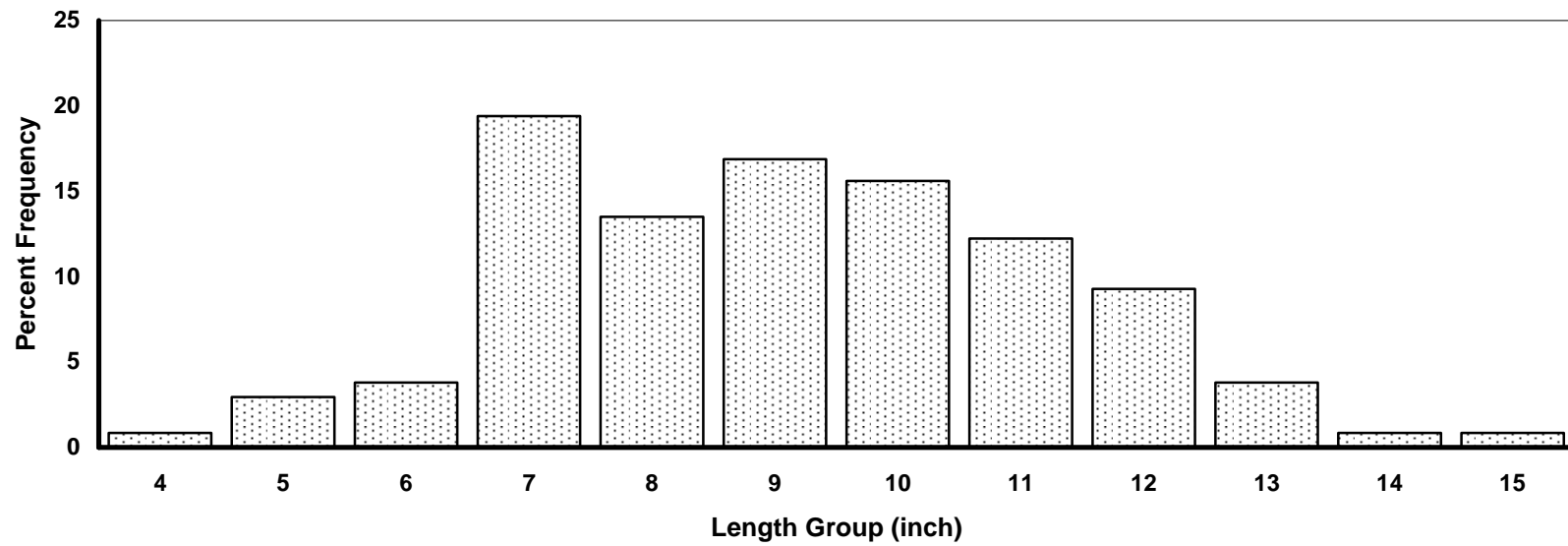


Figure 25. Norris Reservoir spotted bass length frequency by percent for the 2008 electrofishing sample (n=237).

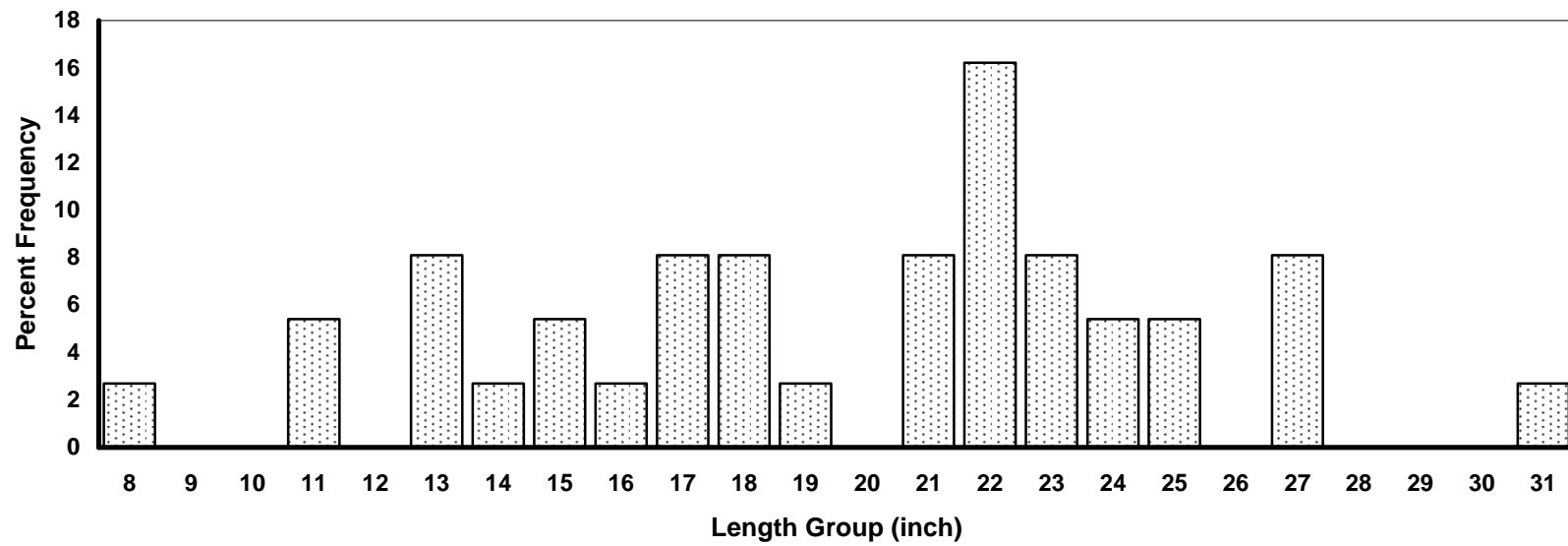


Figure 26. Norris Reservoir striped bass length frequency by percent for the 2008 winter gill net sample (n=37).

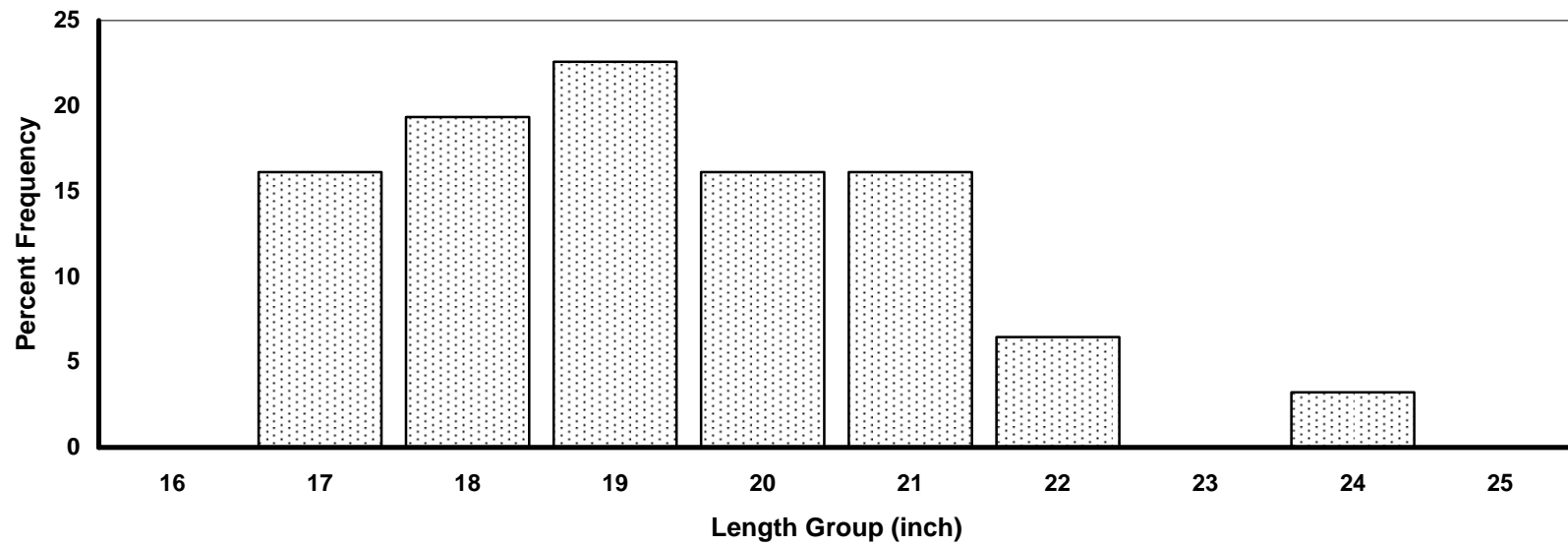


Figure 27. Norris Reservoir walleye length frequency by percent for the 2008 shad gill net sample (n=31).

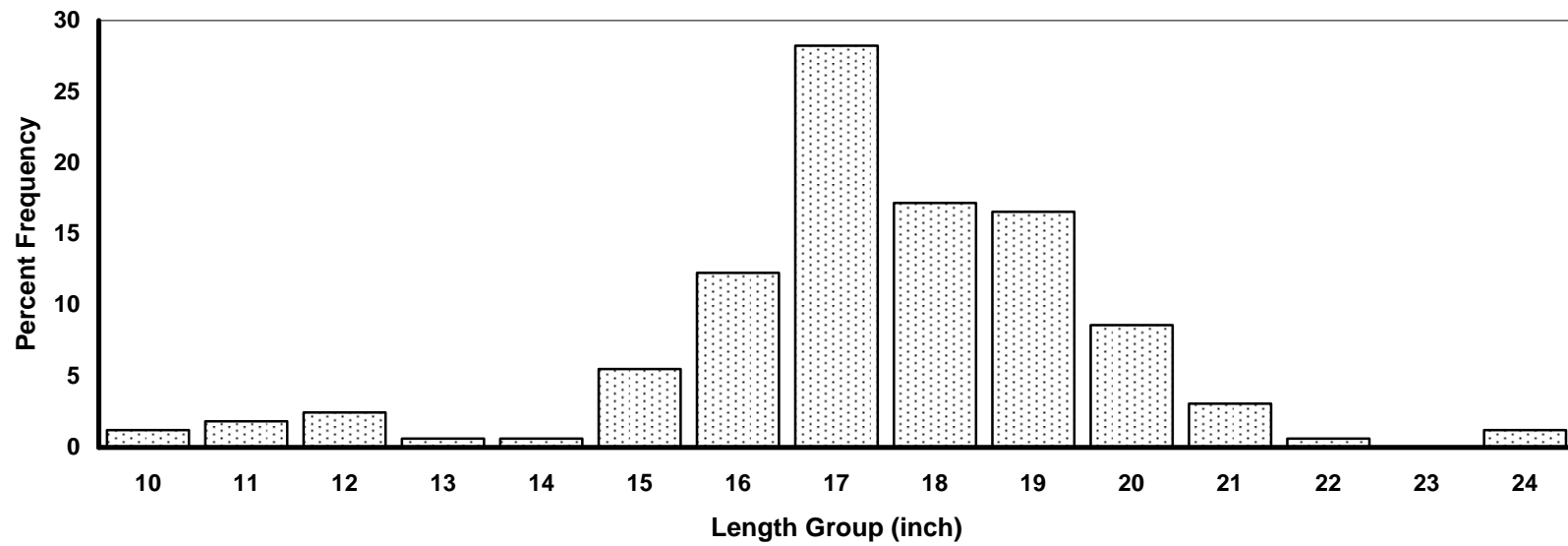


Figure 28. Norris Reservoir walleye length frequency by percent for the 2008 winter gill net sample (n=163).

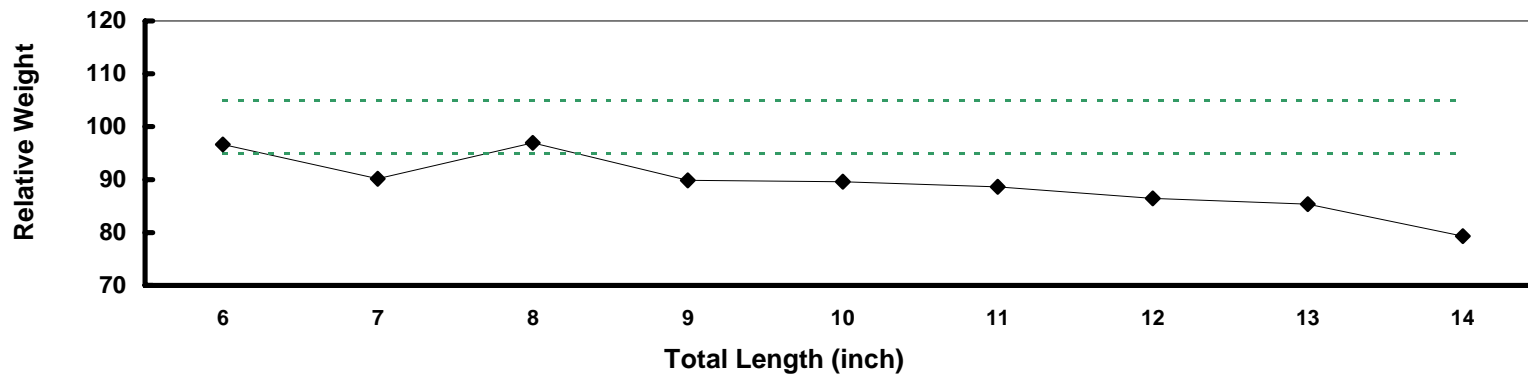


Figure 29. Norris Reservoir black crappie mean relative weight values from the 2008 electrofishing sample (n=191).

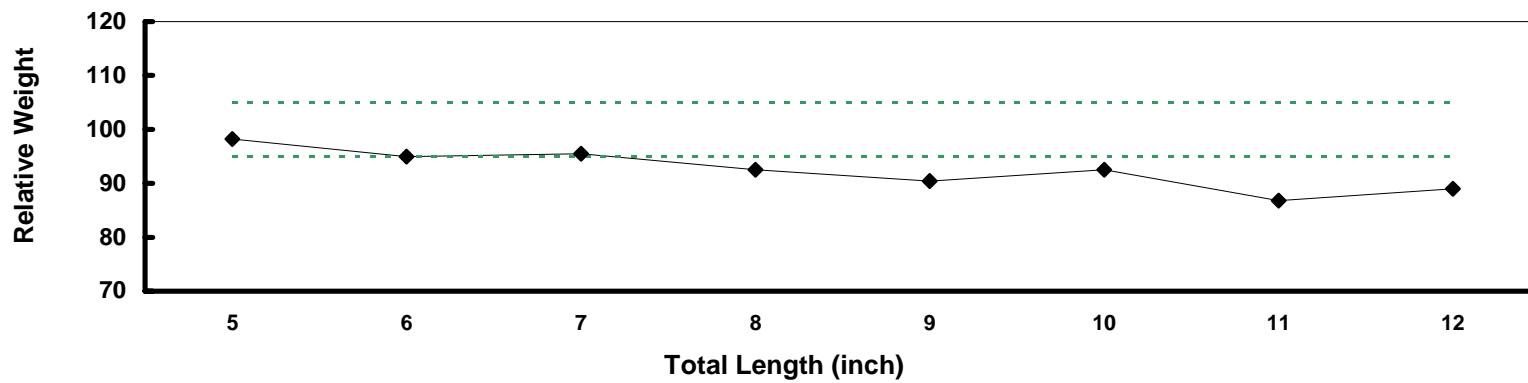


Figure 30. Norris Reservoir black crappie mean relative weight values from the 2008 trap net sample (n=98).



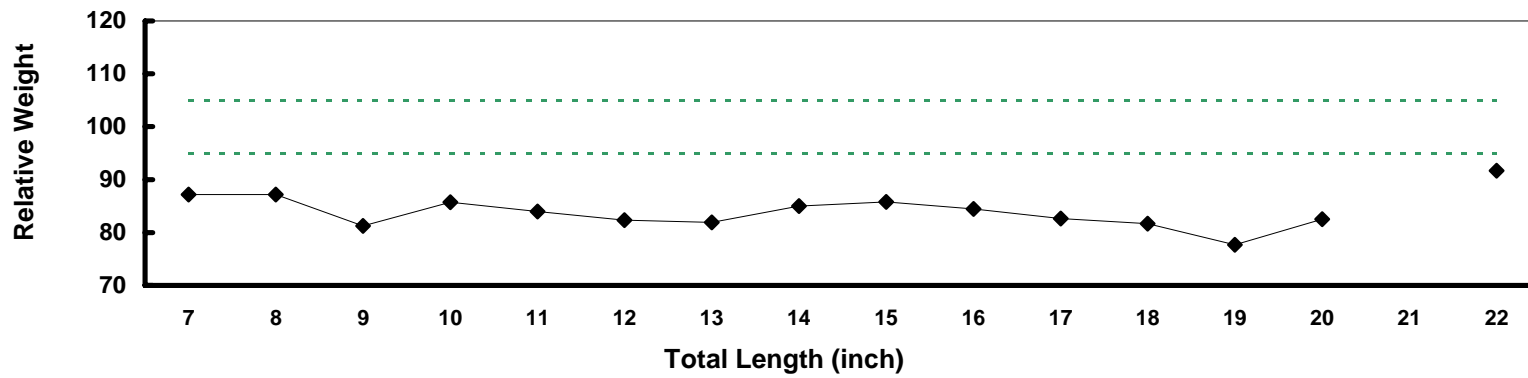


Figure 31. Norris Reservoir largemouth bass mean relative weight values from the 2008 electrofishing sample (n=184).

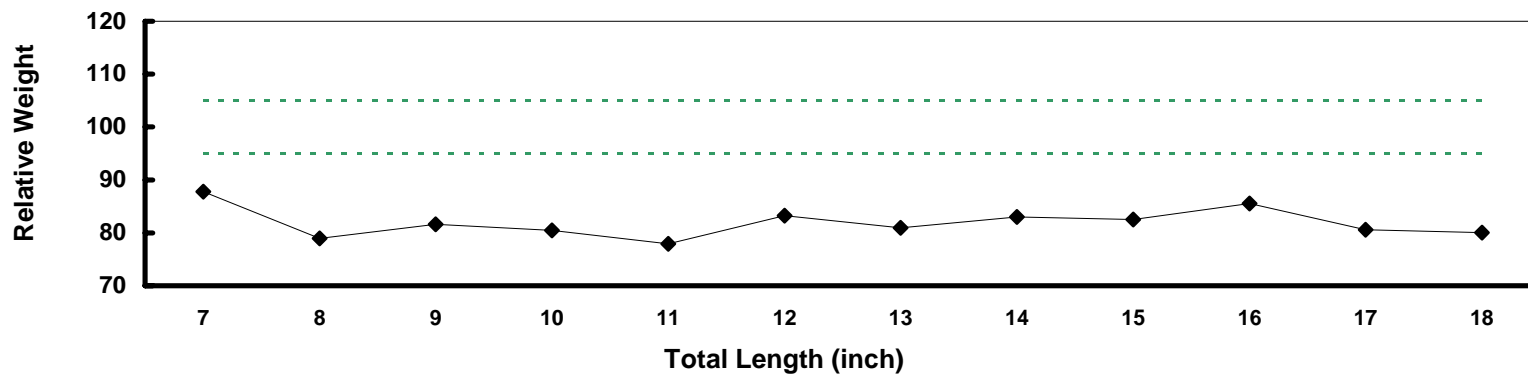


Figure 32. Norris Reservoir smallmouth bass mean relative weight values from all 2008 electrofishing samples (n=109).

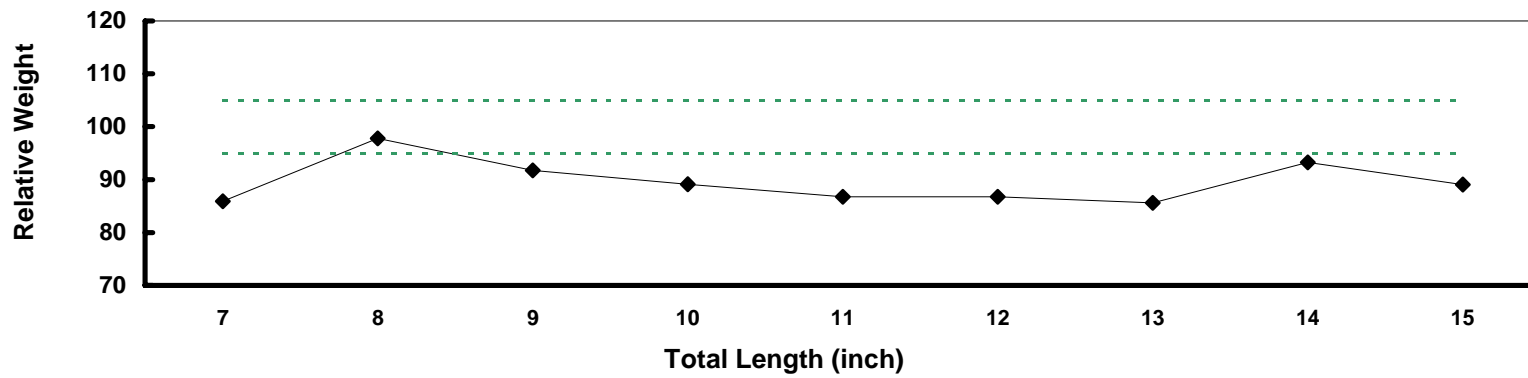


Figure 33. Norris Reservoir spotted bass mean relative weight values from the 2008 electrofishing sample (n=177).

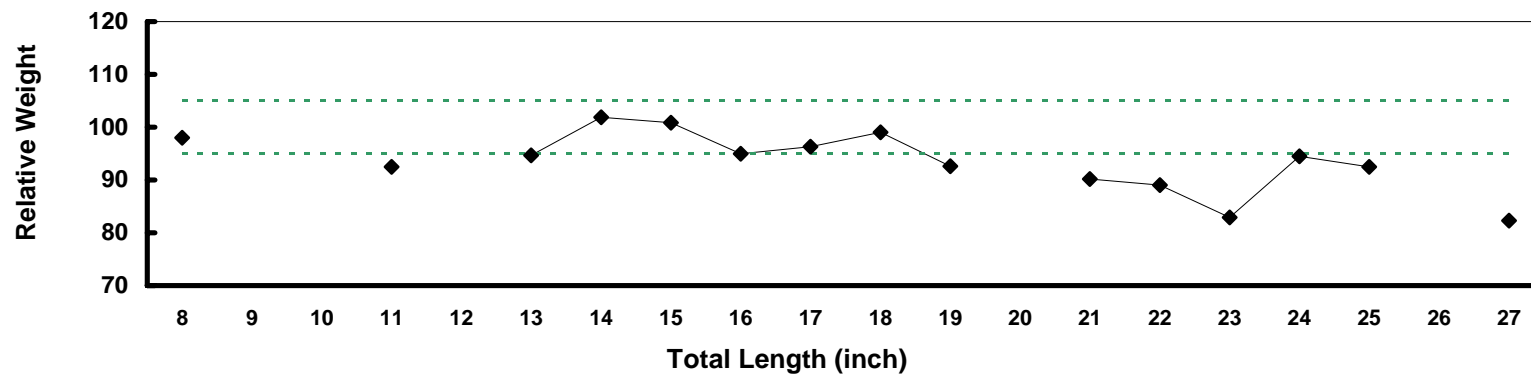


Figure 34. Norris Reservoir striped bass mean relative weight values from the 2008 winter gill net sample (n=36).

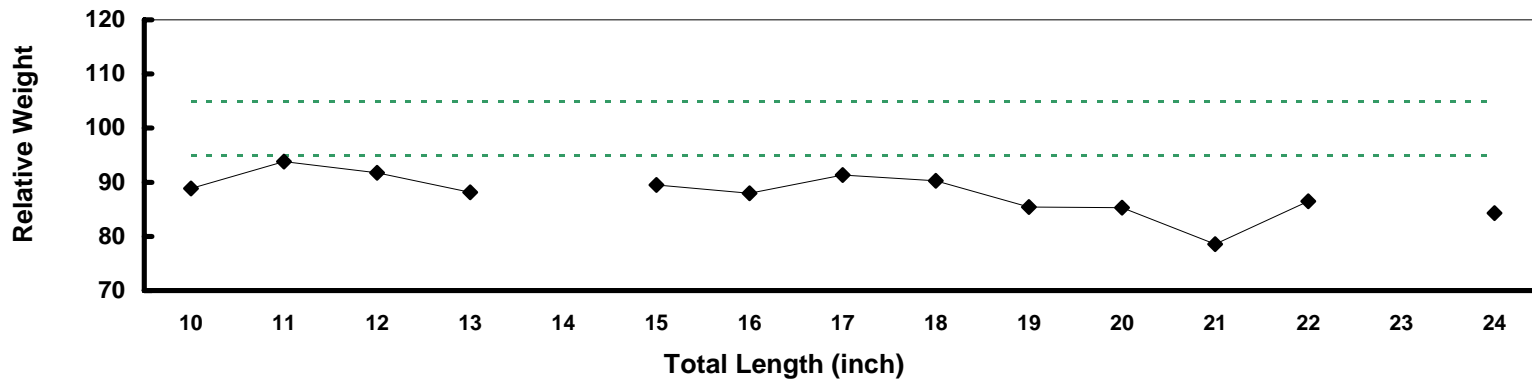


Figure 35. Norris Reservoir walleye mean relative weight values from the 2008 winter gill net sample (n=160).

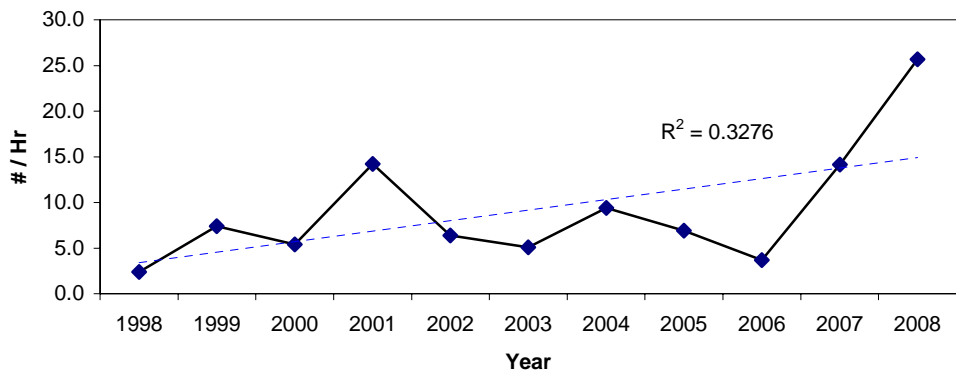


Figure 36. Norris Reservoir black crappie electrofishing catch rates from 1998 to 2008.

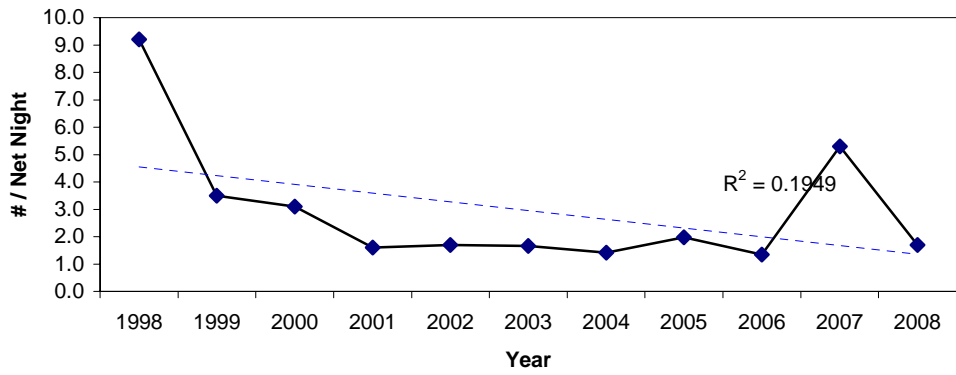


Figure 37. Norris Reservoir black crappie trap netting catch rates from 1998 to 2008.

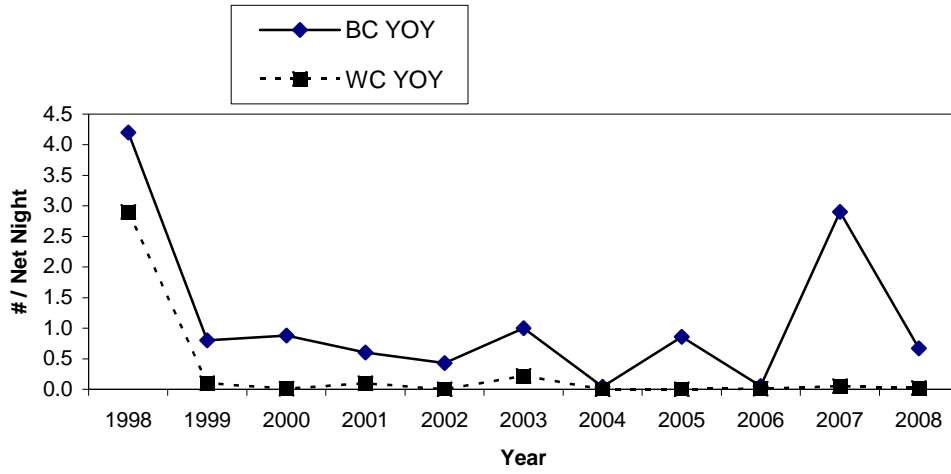


Figure 38. Norris Reservoir YOY crappie trap netting catch rates from 1998 to 2008.

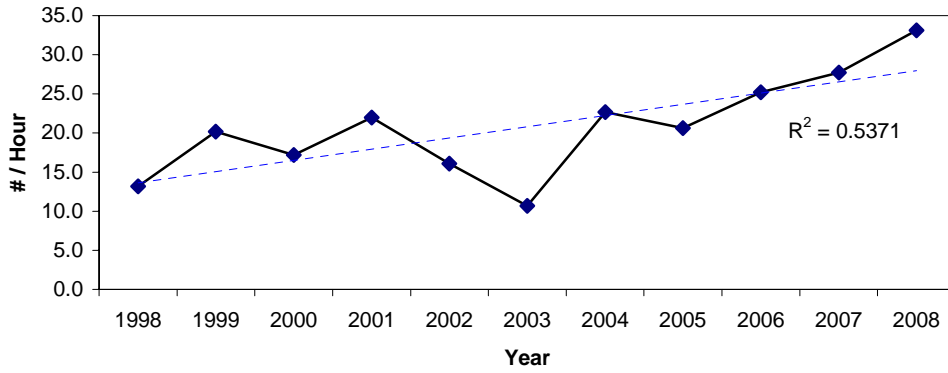


Figure 39. Norris Reservoir largemouth bass electrofishing catch rates from 1998 to 2008.

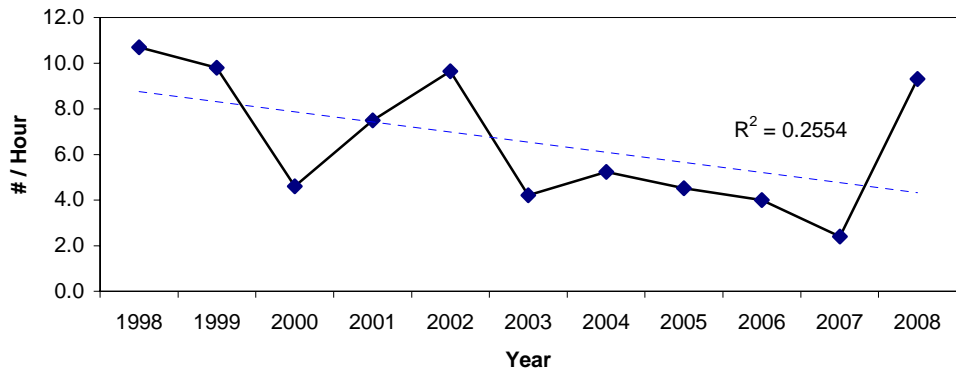


Figure 40. Norris Reservoir smallmouth bass electrofishing catch rates from 1998 to 2008.

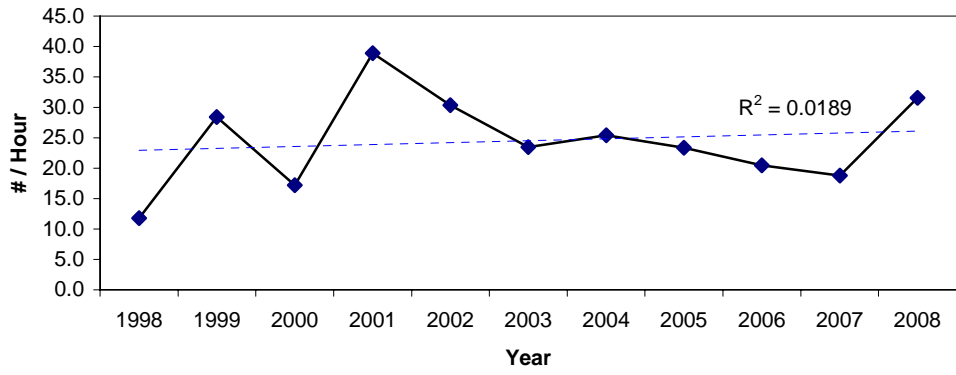


Figure 41. Norris Reservoir spotted bass electrofishing catch rates from 1998 to 2008.



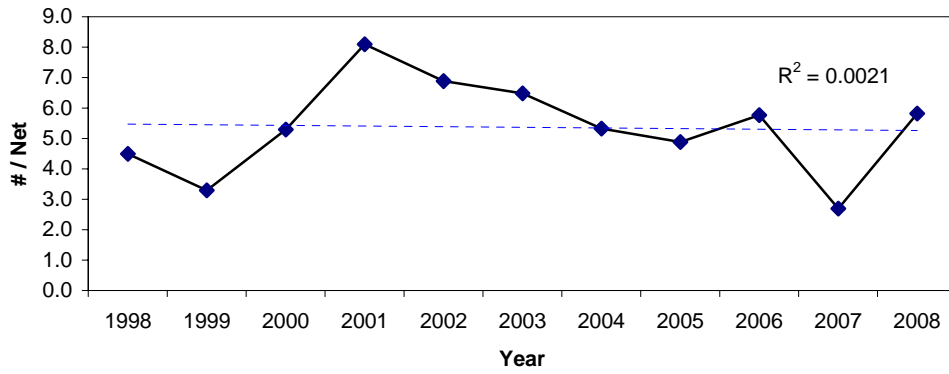


Figure 42. Norris Reservoir walleye gill net catch rates from 1998 to 2008.

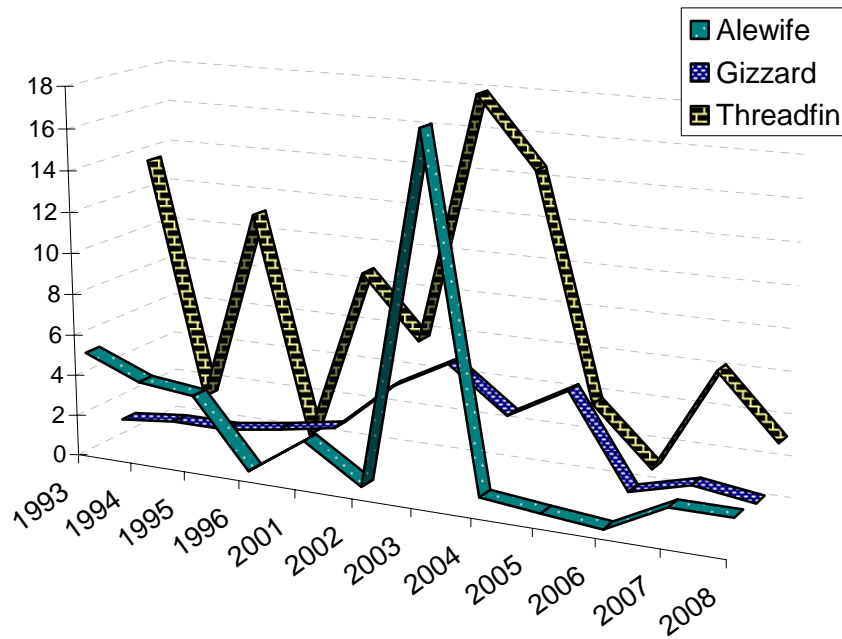


Figure 43. Geometric means for catch of shad in Norris Reservoir by summer gill netting from 1993 to 2008.

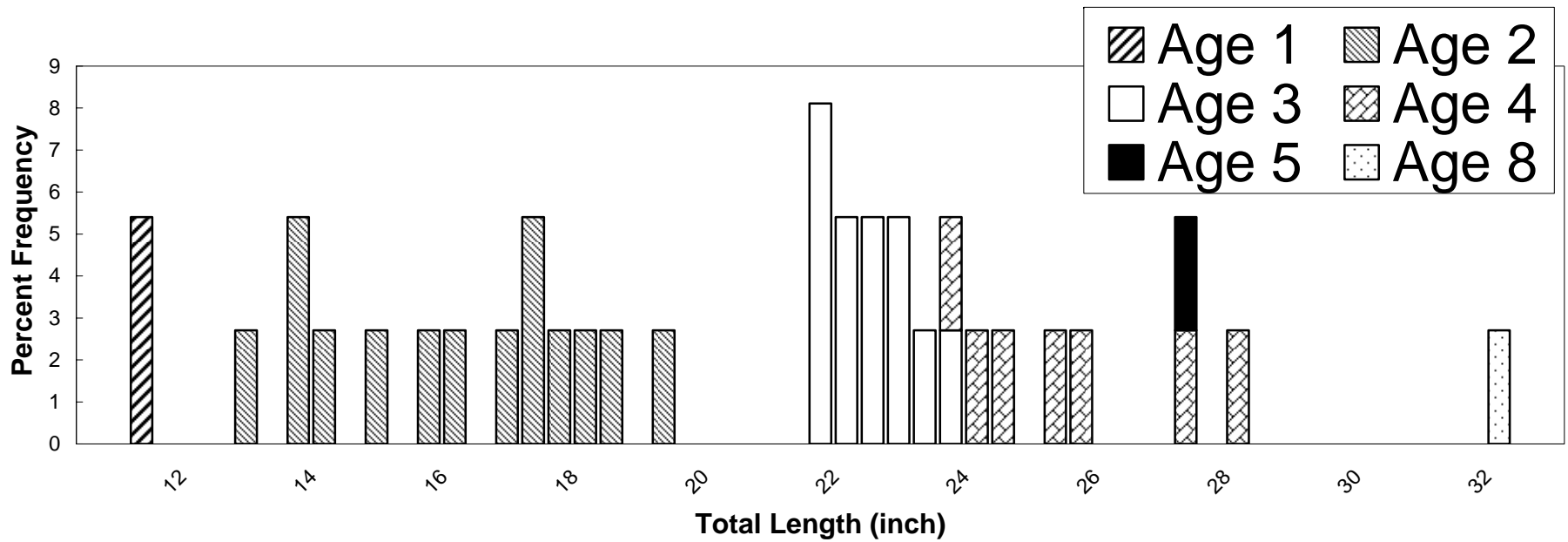


Figure 44. Length frequency at age of Norris Reservoir striped bass from the 2008 gill net sample. (n = 37) (CPUE = 1.3/net night)

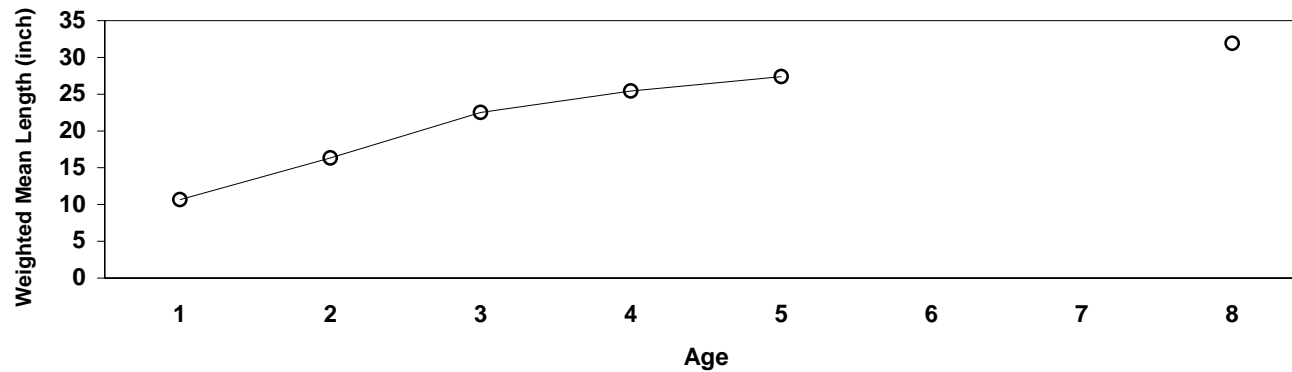


Figure 45. Weighted mean length at age of striped bass from the 2008 Norris winter gill net sample.

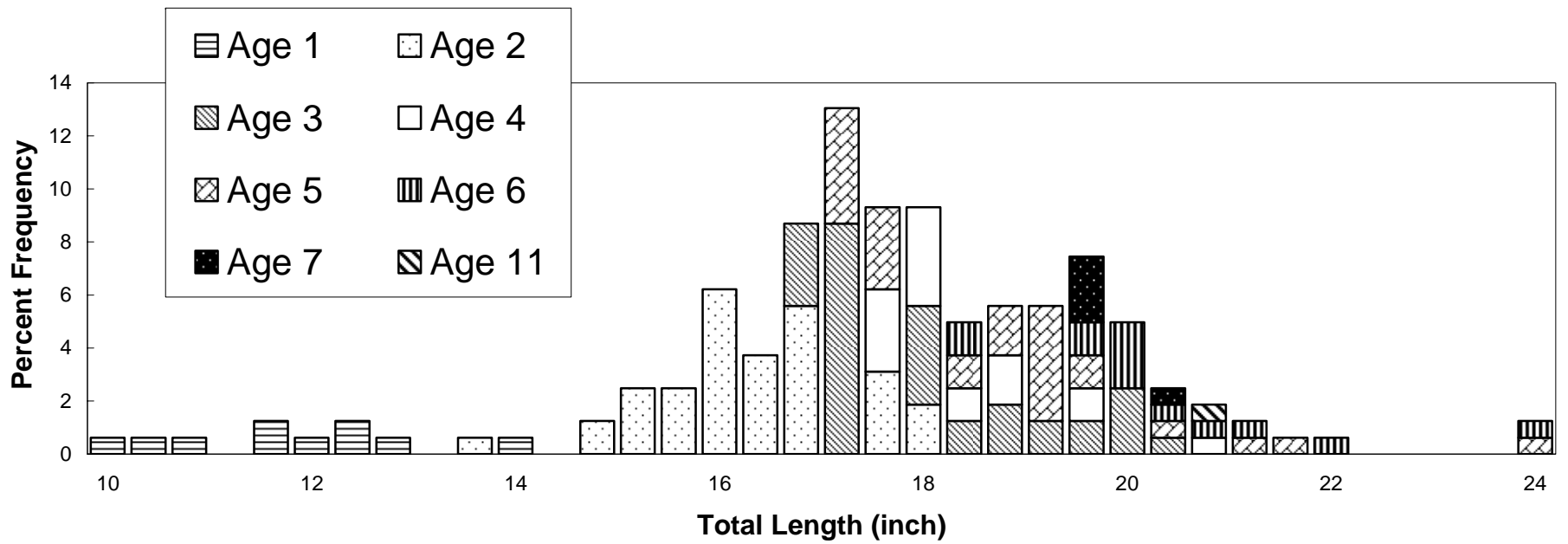


Figure 46. Length frequency at age of Norris walleye from the 2008 gill net sample. (n = 161) (CPUE = 5.8/net night)

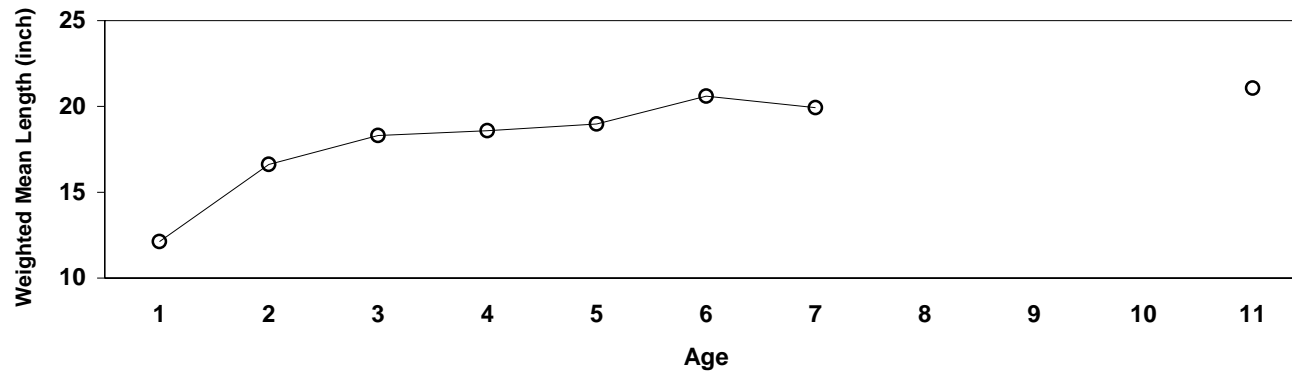


Figure 47. Weighted mean length at age of walleye from Norris 2008 winter gill net sample.

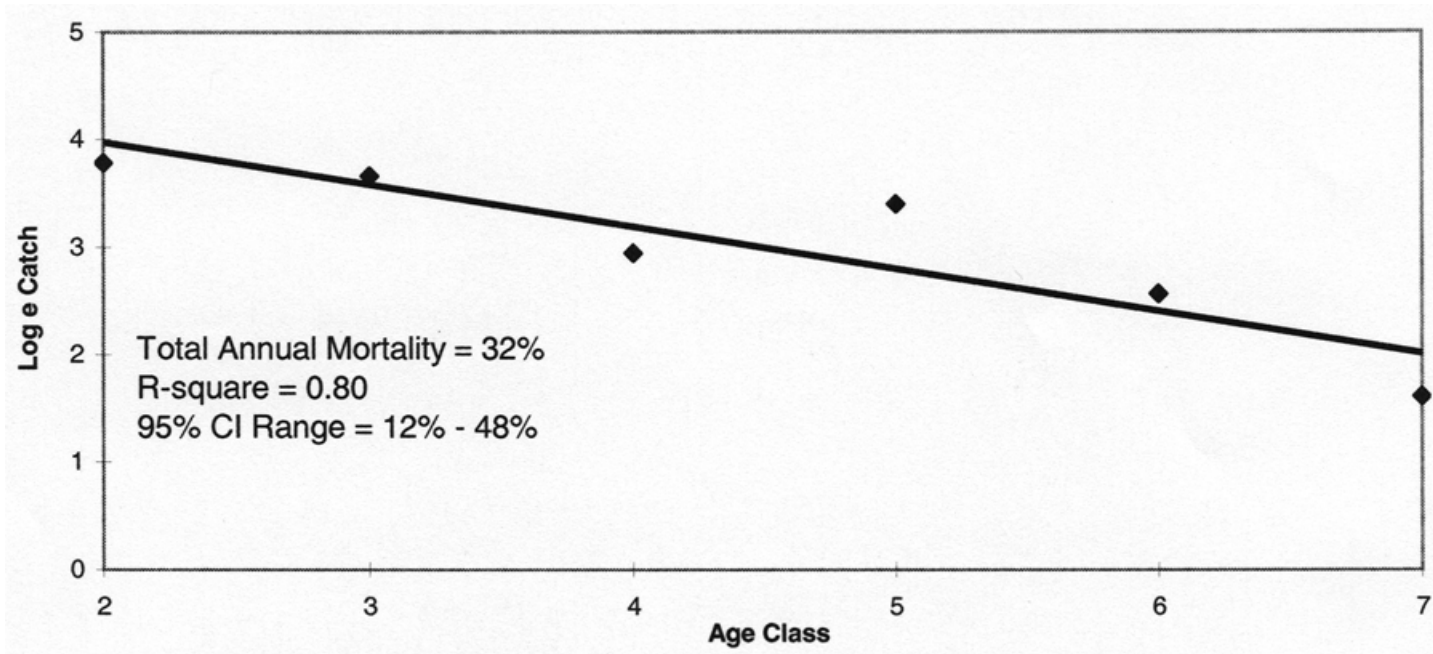


Figure 48. Norris walleye mortality from the 2008 winter gill net sample.

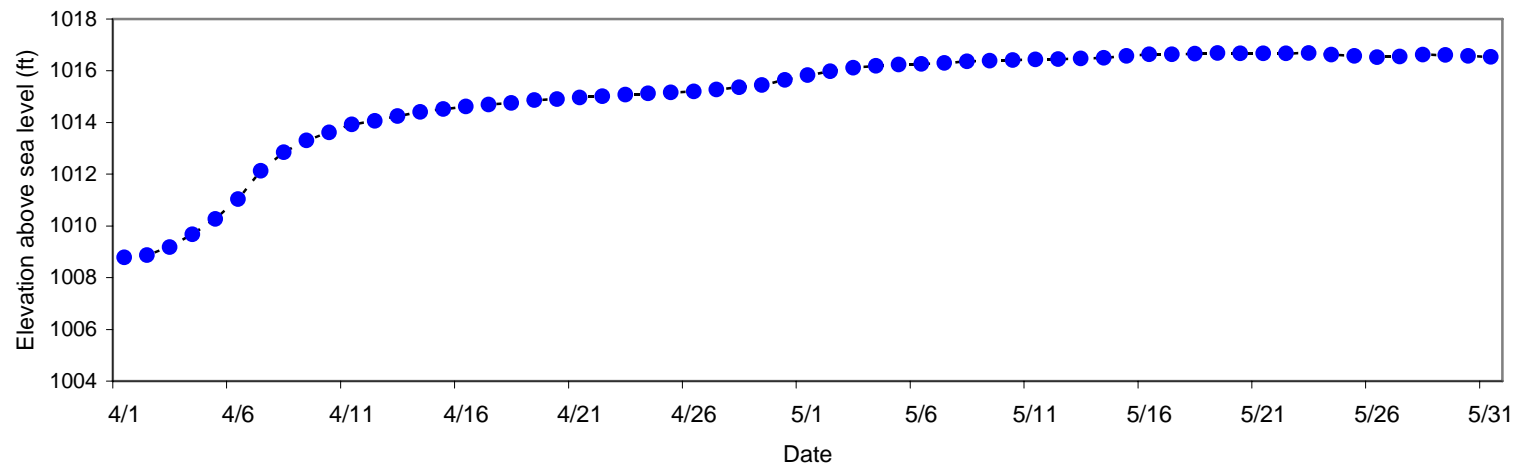


Figure 49. Norris Reservoir's 2008 April and May water levels (TVA data).

Figure 50. Norris Reservoir Water Quality at Clinch River Mile 82 - July 2, 2008

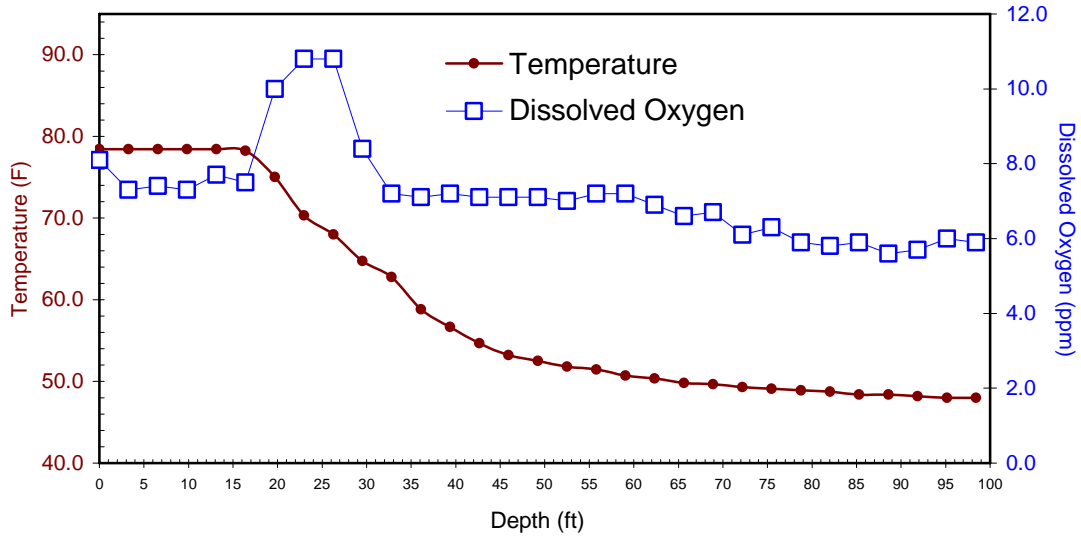


Figure 51. Norris Reservoir Water Quality at Clinch River Mile 88 - July 2, 2008

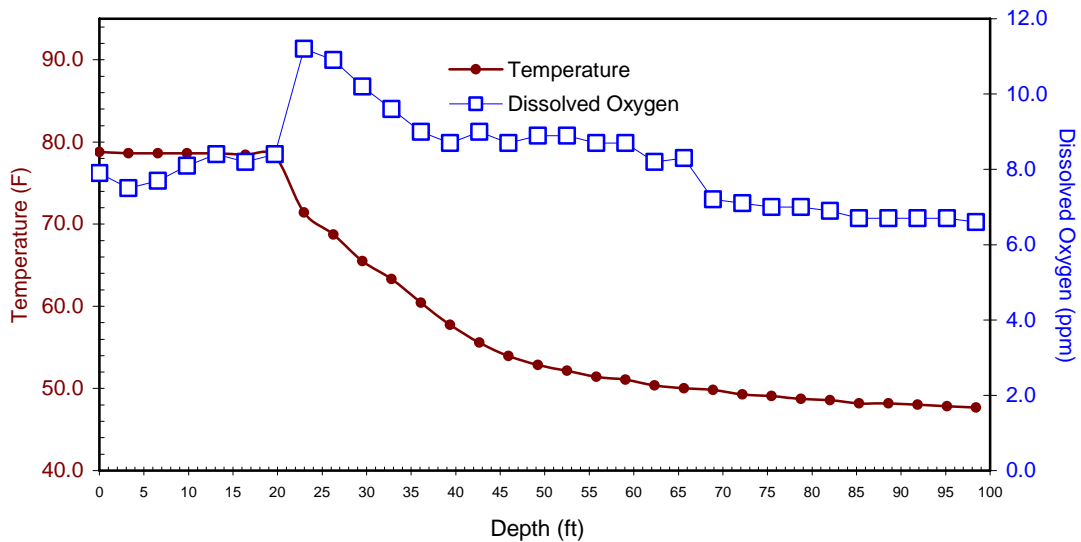




Figure 52. Norris Reservoir Water Quality at Clinch River Mile 120 - July 2, 2008

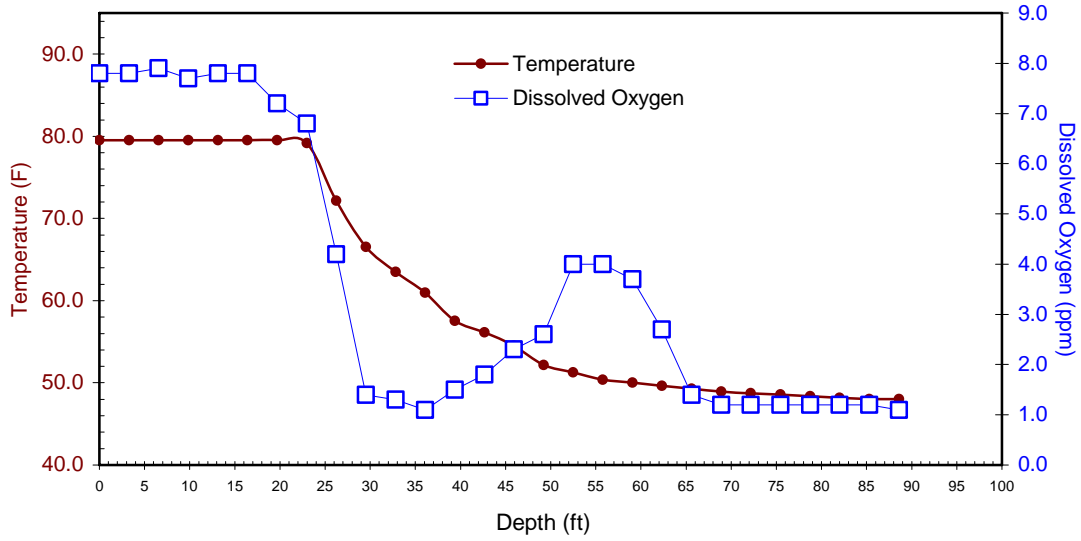


Figure 53. Norris Reservoir Water Quality at Powell River Mile 19 - July 2, 2008

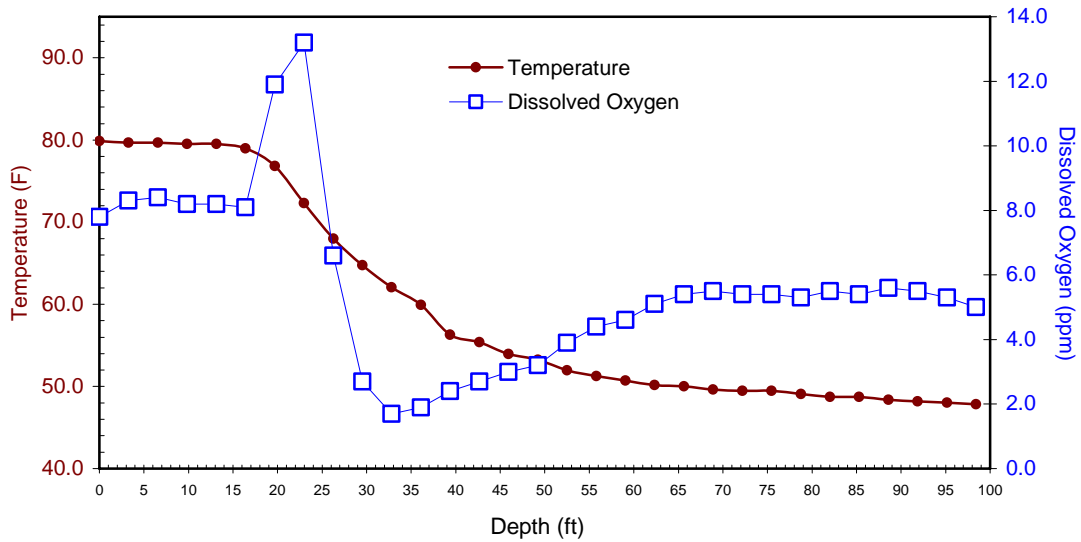


Figure 54. Norris Reservoir Water Quality at Clinch River Mile 82 - August 4, 2008

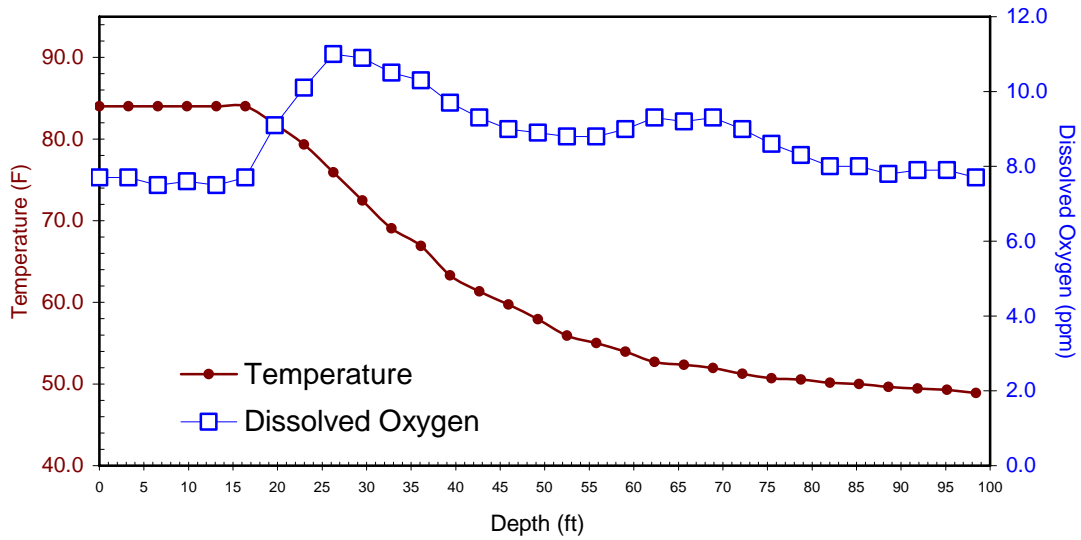


Figure 55. Norris Reservoir Water Quality at Clinch River Mile 88 - August 4, 2008

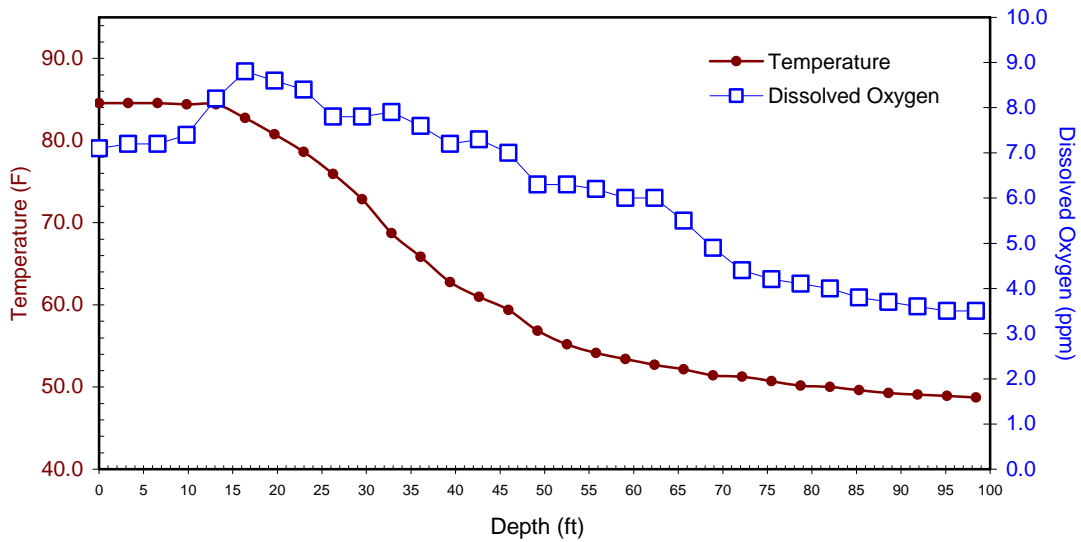


Figure 56. Norris Reservoir Water Quality at Clinch River Mile 120 - August 4, 2008

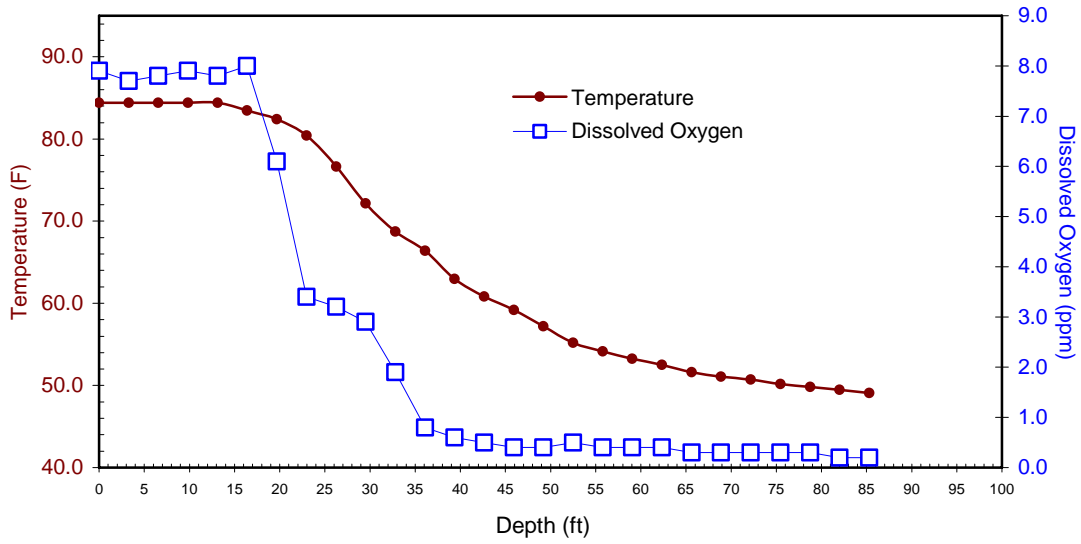


Figure 57. Norris Reservoir Water Quality at Powell River Mile 19 - August 4, 2008

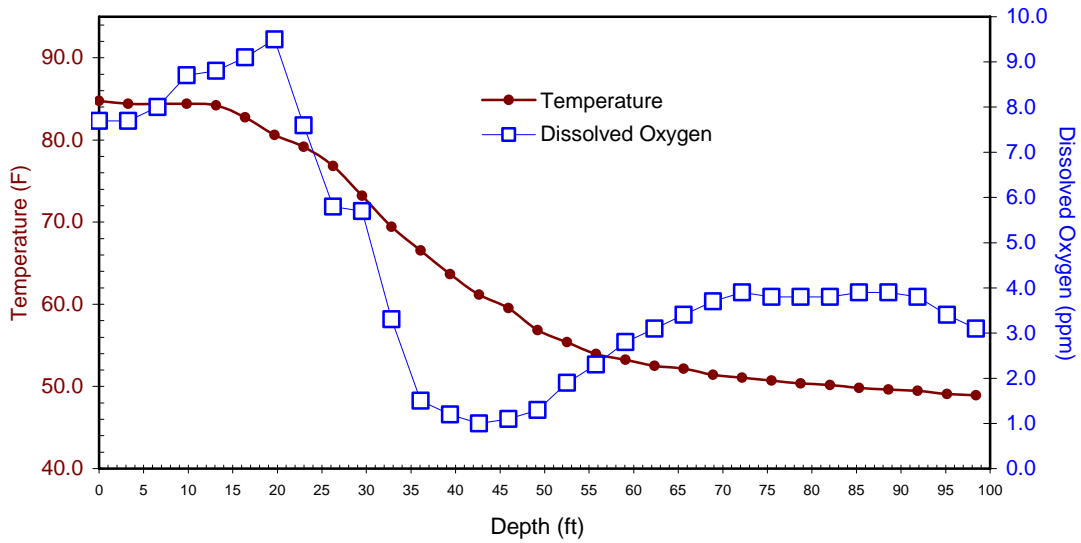


Figure 58. Norris Reservoir Water Quality at Clinch River Mile 82 - September 2, 2008

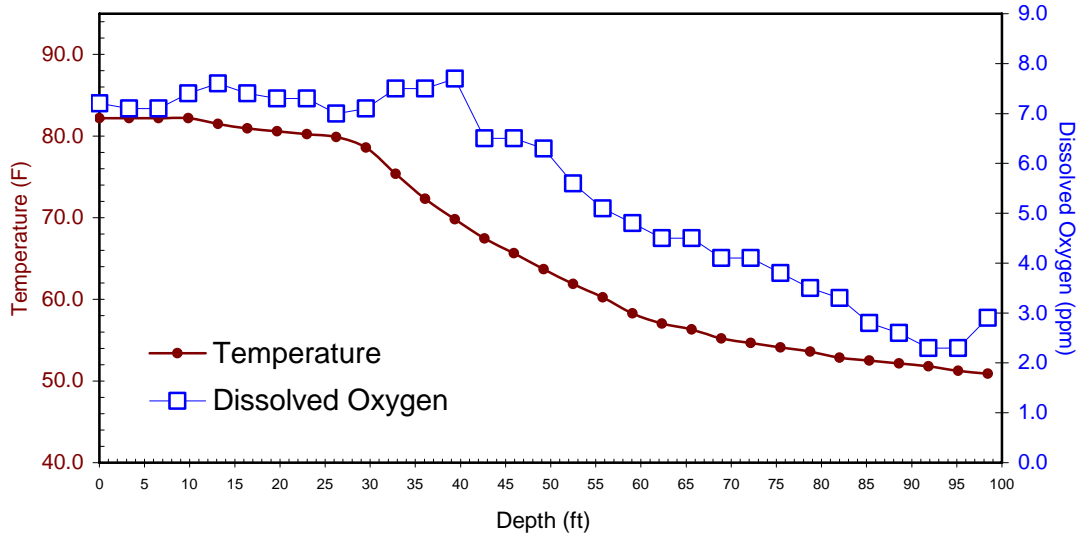


Figure 59. Norris Reservoir Water Quality at Clinch River Mile 88 - September 2, 2008

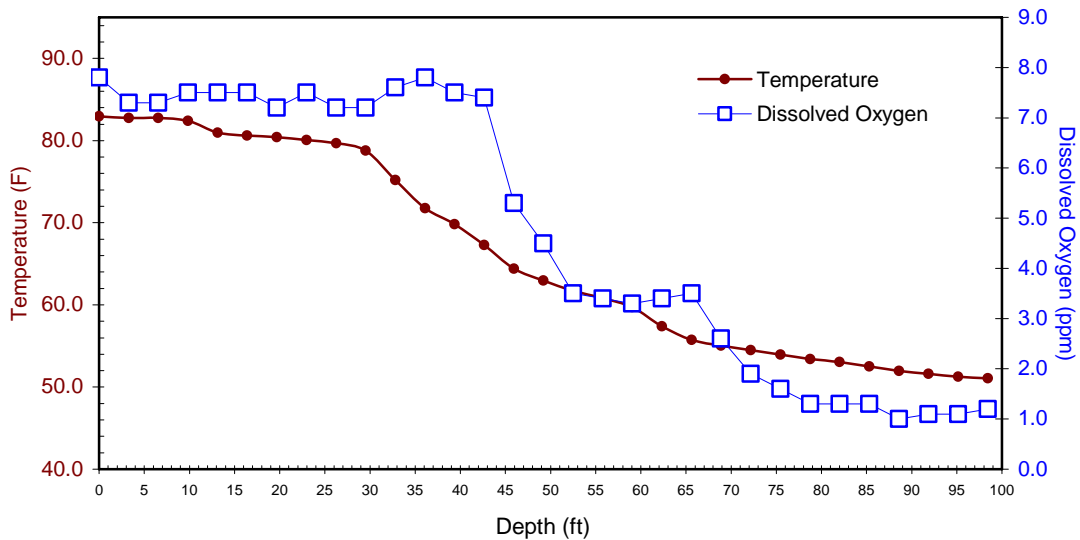


Figure 60. Norris Reservoir Water Quality at Clinch River Mile 120 - September 2, 2008

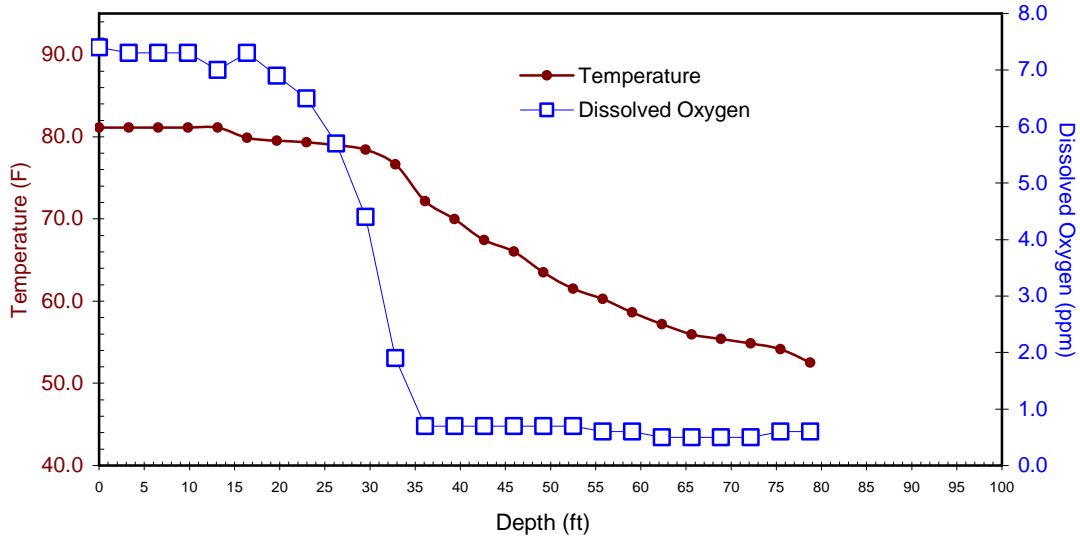
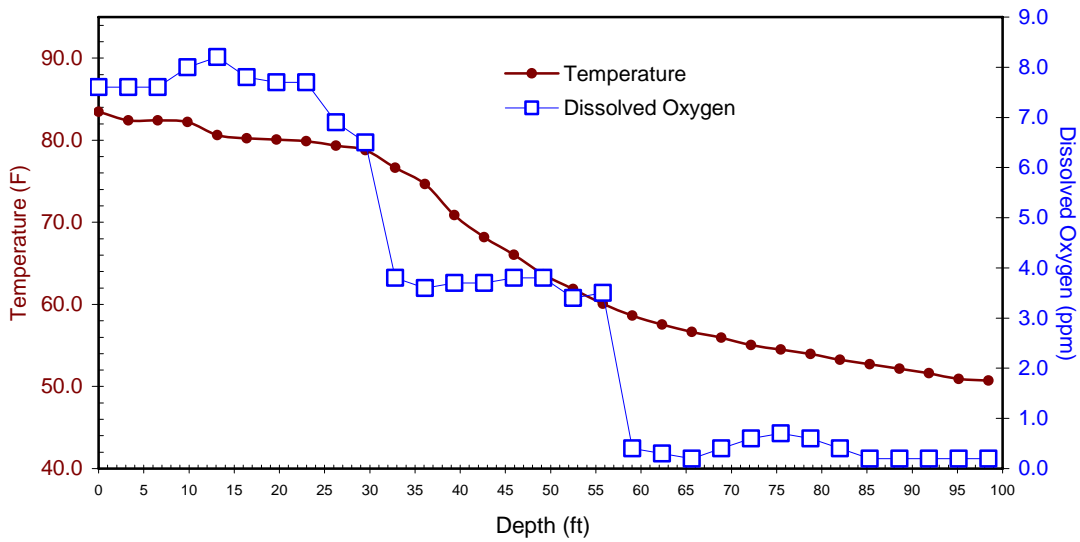


Figure 61. Norris Reservoir Water Quality at Powell River Mile 19 - September 2, 2008



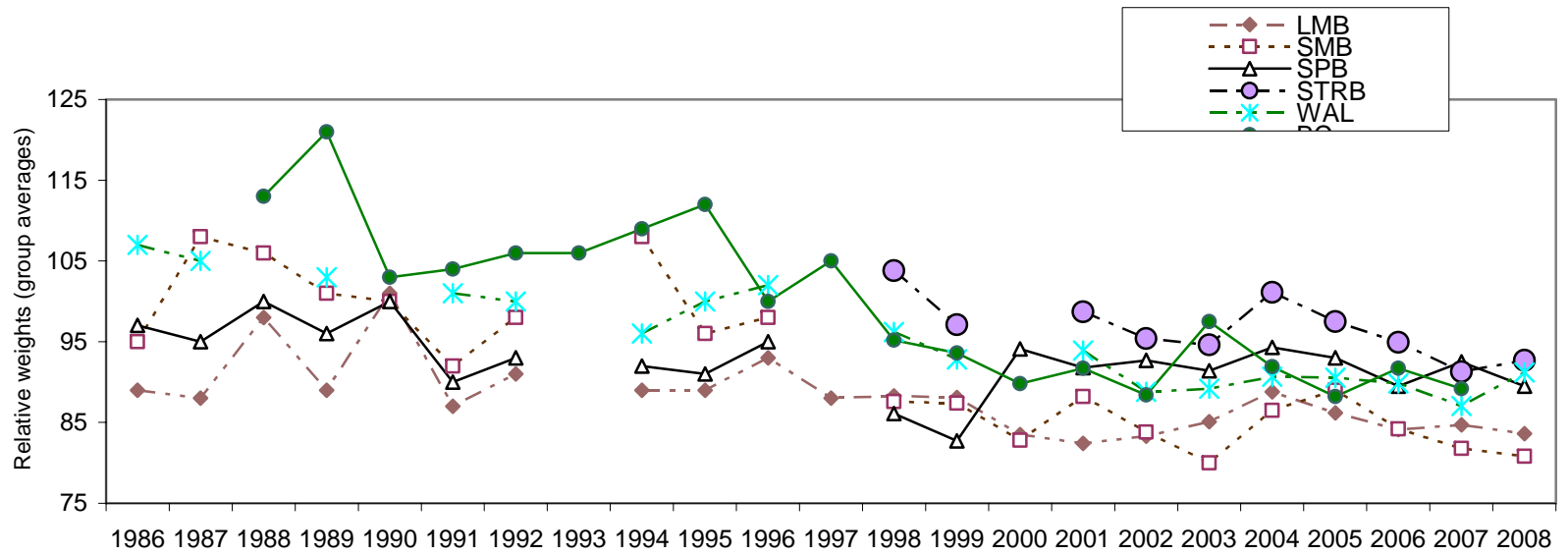


Figure 62.  $W_r$  values by certain RSD group averages for important Norris Reservoir game fish 1986 to 2008

## Appendix – Creel

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2008

LAKE=NORRIS

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



MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2008

LAKE=NORRIS

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	13347	34.0	0.61	21.3	656	65.9	0.03	57.6
02 FEBRUARY	7368	50.6	0.44	34.7	1842	50.8	0.11	35.4
03 MARCH	122445	89.8	2.07	55.6	5915	91.7	0.10	57.1
04 APRIL	17801	45.7	0.87	29.9	6138	74.1	0.30	63.8
05 MAY	27796	56.6	0.85	52.9	8502	84.8	0.26	81.8
06 JUNE	54695	25.8	1.27	22.8	21103	30.9	0.49	28.6
07 JULY	26010	25.9	0.57	18.9	5476	35.6	0.12	30.8
08 AUGUST	17743	41.8	0.49	35.2	6156	89.6	0.17	86.2
09 SEPTEMBER	14674	46.8	0.85	40.2	1726	80.4	0.10	77.8
10 OCTOBER	19639	26.9	0.69	17.7	5123	54.3	0.18	48.9
11 NOVEMBER	25955	58.4	1.40	49.8	2966	58.6	0.16	49.2
12 DECEMBER	3606	75.2	0.58	58.2	684	117.8	0.11	100.0
----- <b>TOTAL</b>	<b>351079</b>				<b>66287</b>			

**SUMMARY OF SPECIES CATCH STATISTICS - 2008**

**LAKE=NORRIS**

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
CARP	126	1314.4	0.0	126	0		0.0	0	100.0		0
CHANNEL CATFISH	6981	201.1	2.0	551	2445	139.8	3.7	0	65.0	1.44	11
FLATHEAD CATFISH	989	338.8	0.3	330	445	299.8	0.7	148	55.0	7.08	3
WHITE BASS	382	464.6	0.1	0	256	520.9	0.4	0	33.0	1.58	2
STRIPED BASS	13367	109.7	3.8	12019	3249	102.1	4.9	3249	75.7	10.23	9
ROCK BASS	1428	248.0	0.4	0	0		0.0	0	100.0		0
GREEN SUNFISH	119	1387.6	0.0	119	119	1387.6	0.2	119	0.0	0.10	1
WARMOUTH	116	1770.6	0.0	0	0		0.0	0	100.0		0
BLUEGILL	76123	24.8	21.7	63106	29077	28.6	43.9	28515	61.8	0.25	199
REDEAR SUNFISH	3724	144.1	1.1	2578	3260	154.7	4.9	2223	12.5	0.75	22
COOSA BASS	177	906.3	0.1	177	0		0.0	0	100.0		0
SMALLMOUTH BASS	102625	56.9	29.2	89446	3360	71.5	5.1	2520	96.7	2.79	12
SPOTTED BASS	41221	55.9	11.7	28239	3856	63.7	5.8	2057	90.6	0.82	30
LARGEMOUTH BASS	48963	57.4	14.0	39858	1411	100.7	2.1	627	97.1	3.07	9
WHITE CRAPPIE	16060	129.1	4.6	12905	2873	142.9	4.3	1975	82.1	0.88	16
BLACK CRAPPIE	28319	92.1	8.1	25674	10905	63.8	16.4	9489	61.5	0.83	77
BLACKNOSE CRAPPIE	2271	778.4	0.6	2065	770	274.0	1.2	674	66.1	0.86	8
SAUGER	854	114.4	0.2	0	150	162.2	0.2	0	82.4	1.11	4
WALLEYE	5050	100.7	1.4	4777	4116	102.4	6.2	3974	18.5	2.29	28
FRESHWATER DRUM	1995	897.4	0.6	0	0		0.0	0	100.0		0

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

LAKE=NORRIS

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	345	141.6	68	0.1	0.00		0.00		1
STRIPED BASS	33232	18.0	6659	9.6	0.26	75.9	0.04	151.9	49
ANY SUNFISH	25006	17.5	4997	7.2	2.24	24.1	1.17	27.6	32
ANY BLACK BASS	124831	18.1	23313	36.0	0.42	23.0	0.01	156.8	179
SMALLMOUTH BASS	32140	27.0	6052	9.3	0.72	42.2	0.02	188.0	58
SPOTTED BASS	2687	89.2	456	0.8	0.38		0.28		3
LARGEMOUTH BASS	2244	60.0	438	0.6	0.10	172.8	0.00		5
ANY CRAPPIE	23948	34.2	4293	6.9	0.92	45.1	0.36	39.9	38
WALLEYE	40665	15.5	8049	11.7	0.08	59.8	0.07	70.7	63
ANY SPECIES	61229	12.7	12221	17.7	0.62	53.2	0.09	85.6	71
-----	-----		-----						
<b>TOTAL</b>	<b>346327</b>		<b>66546</b>						

**SUMMARY OF RELATIVE SPECIES CATCH RATES  
WITHIN TARGET GROUPS - 2008**

LAKE=NORRIS

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

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

LAKE=NORRIS

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

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

**LAKE=NORRIS**

<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>
STRIPED BASS	293220	162590	445680	19
ANY SUNFISH	70350	38670	104680	20
ANY BLACK BASS	997680	528450	1526130	109
SMALLMOUTH BASS	183790	137280	321070	20
SPOTTED BASS	1340	4480	5830	1
LARGEMOUTH BASS	4090	1020	5110	1
ANY CRAPPIE	69870	112120	177860	15
WALLEYE	200580	174400	374980	30
ANY SPECIES	198640	286100	484740	40
----- <b>TOTAL</b>	<b>2019560</b>	<b>1445110</b>	<b>3446080</b>	<b>255</b>

**SUMMARY OF SOCIOLOGICAL QUESTIONS - 2008**

**LAKE=NORRIS**

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

<b>STATE</b>	<b>NUMBER ANGLERS INTERVIEWED</b>	<b>PERCENT CONTRIBUTION</b>
KY	92	10.1
TN	762	84.0
OTHERS	53	5.8

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

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

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

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

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

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

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

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