

Norris Reservoir  
Annual Report 2007

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## Norris Reservoir - 2007

### Largemouth Bass

Population Parameter	Annual Rating	Measure	Gear	Value
Recruitment	Poor	Substock CPUE	Electrofishing	0.7/hr
Structure	Good	PSD	Electrofishing	77
Density	Good	CPUE $\geq$ Stock Size (8-inches)	Electrofishing	27.1/hr
Density	Good	CPUE $\geq$ Minimum Size Limit (15-inches)	Electrofishing	9.1/hr
Number Caught	Good	Angler Catch	Creel Survey	25,937
Quality	Good	Average Weight	Creel Survey	1.7 lbs
Value of Fishery*	Excellent	Trip Expenditures	Creel Survey	\$614,290

(\*all black bass combined under intended species was used)

Fishery Forecast: The population has improved during the past few years. The average weight of largemouth caught by anglers in 2007 was 1.7 lbs. 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

Population Parameter	Annual Rating	Measure	Gear	Value
Recruitment	Poor	Substock CPUE	Electrofishing	0.3/hr
Structure	Poor	PSD	Electrofishing	44
Density	Poor	CPUE $\geq$ Stock Size (7-inches)	Electrofishing	2.1/hr
Density	Poor	CPUE $\geq$ Minimum Size Limit (18-inches)	Electrofishing	0.0/hr
Number Caught	Good	Angler Catch	Creel Survey	56,308
Quality	Good	Average Weight	Creel Survey	2.7 lbs
Value of Fishery*	Excellent	Trip Expenditures	Creel Survey	\$614,290

(\*all black bass combined under intended species was used)

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 and should continue to help improve the quality of the fishery.

Management Recommendations: Continue with the 18-inch minimum length limit.

## Spotted Bass

Population Parameter	Annual Rating	Measure	Gear	Value
Recruitment	Fair	Substock CPUE	Electrofishing	3.5/hr
Structure	Poor	PSD	Electrofishing	35
Density	Poor (too high)	CPUE $\geq$ Stock Size (7-inches)	Electrofishing	15.3/hr
Density	Poor (too high)	CPUE $\geq$ Minimum Size Limit (none)	Electrofishing	18.8/hr
Number Caught	Good	Angler Catch	Creel Survey	37,368
Quality	Fair	Average Weight	Creel Survey	0.8 lbs
Value of Fishery*	Excellent	Trip Expenditures	Creel Survey	\$614,290

(\*all black bass combined under intended species was used)

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.

## Walleye

Population Parameter	Annual Rating	Measure	Gear	Value
Growth	Excellent	Mean TL at Age-3	Gill netting	18.4 inch
Structure	Fair	PSD	Gill netting	96
Density	Fair	CPUE $\geq$ Stock Size (10-inches)	Gill netting	2.8/net
Density	Fair	CPUE $\geq$ Minimum Size Limit (15-inches)	Gill netting	2.8/net
Mortality (2006)	Fair	Total Mortality (Z)	Gill netting	43 %
Angling Pressure	Fair	Fishing Effort	Creel Survey	45,729 hr
Fishing Success	Fair	Angler Catch Rate	Creel Survey	0.1/hr
Number Caught	Poor	Angler Catch	Creel Survey	6,389
Quality	Fair	Average Weight	Creel Survey	2.2 lbs
Value of Fishery	Good	Trip Expenditures	Creel Survey	\$176,350

Fishery Forecast: The walleye fishery has rebounded impressively since the initiation of an aggressive stocking campaign in 1998, but showed a slight decrease in density in 2007.

Management Recommendations: Continue to monitor the density and health of the fishery to determine future stocking rates. Consider increasing the minimum size limit to 18-inch to protect fish until they reach Age III.

## Black Crappie

Population Parameter	Annual Rating	Measure	Gear	Value
Recruitment	Good	Substock CPUE	Trap Net	2.9/net
Structure	Fair	PSD	Trap Net	58
Density	Fair Good	CPUE $\geq$ Stock Size (5-inches)	Trap Net Electro	2.4/net 14.1/hr
Density	Poor Good	CPUE $\geq$ Minimum size Limit (10-inches)	Trap Net Electro	0.7/net 8.3/hr
Angling Pressure*	Fair	Fishing Effort	Creel Survey	20,986 hr
Fishing Success*	Fair	Angler Catch Rate	Creel Survey	0.8/hr
Number Caught*	Fair	Angler Catch	Creel Survey	16,800
Quality	Fair	Average Weight	Creel Survey	0.7 lbs
Value of Fishery*	Fair	Trip Expenditures	Creel Survey	\$46,790

(\*all crappie combined)

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.

Management Recommendations: There are no creel limit changes proposed, though reducing the creel to five per day would help insure the fishery remains intact.

## Striped Bass

Population Parameter	Annual Rating	Measure	Gear	Value
Angling Pressure	Fair	Fishing Effort	Creel Survey	41,428 hr
Fishing Success	Good	Angler Catch Rate	Creel Survey	0.3/hr
Number Caught	Fair	Angler Catch	Creel Survey	13,143
Quality	Fair	Average Weight	Creel Survey	7.8 lbs
Value of Fishery	Fair	Trip Expenditures	Creel Survey	\$134,910

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. Striped bass have since become relatively abundant and the population appears to be recovering nicely.

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

**Stocking and Stocking Evaluations**

<b>Species</b>	<b>Number Stocked</b>	<b>Mark</b>	<b>Evaluation</b>	<b>Value</b>
Striped Bass	103,997	NA	NA	NA
Black & Black-nose Crappie	109,572	NA	NA	NA
Walleye	197,472	N/A	NA	NA

**Habitat Enhancement and Monitoring**

Fish Attractors (Shallow Water)	New	none
	Renovated	2 sites, 275 units, 5.5 acres
	Expanded	none
Water Quality	Temperature	July-September (Normal)
	D.O.	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
Reservoir Age	71 years

Table 2. Norris Reservoir fish stockings 1998 - 2007.

<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	
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
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	

\*includes blacknose black crappie







Table 6. Summary of creel results for Norris Reservoir 1998-2006.

Norris Species	YEAR	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 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					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		
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		
Black-nose Crappie	1998				0					0	0	na	0			
	1999				902		0			902	0	na	0		0.0	
	2000				86		0			86	0	na	0		0.0	
	2001				2,705		474			2,921	632	0.83	8	78.4	0.8	
	2002				4,080		777			4,185	907	0.86	7	78.3	1.3	
	2003				1,959		249			1,959	249	0.30	1	87.3	0.5	
	2004				2,315		499			2,315	499	0.85	3	78.4	0.6	
	2005				1,897		180			2,108	359	0.77	4	83.0	0.8	
Channel Catfish	1998									1,636	791	1.90	14			
	1999				1,484					3,202	2,137	4.09	23	33.3	3.2	
	2000				4,737		4,891			15,294	7,861	2.18	45	48.6	12.9	
	2001				5,450		5,560			16,039	10,722	1.76	54	33.2	10.6	
	2002				2,431		1,438			10,128	3,308	1.51	23	67.3	4.4	
	2003				1,512		1,015			6,500	2,610	2.17	18	59.8	3.6	
	2004				791		386			9,265	2,959	1.94	23	68.1	5.5	
	2005				4,569		2,295			9,815	2,817	2.41	27	71.3	3.5	
2006				1,783		358			8,203	715	2.16	4	91.3	1.5		
Flathead Catfish	1998									3,064	591	2.46	8			
	1999				237					356	341	6.04	5	4.2	0.5	
	2000				191		148			508	295	4.60	4	41.9	0.5	
	2001				551		551			1,102	1,102	4.83	4	0.0	1.1	
	2002				177		185			353	277	2.65	3	21.5	0.4	
	2003				236		287			354	287	1.28	287	18.9	0.4	
	2004				396		396			792	792	1.16	4	0.0	1.5	
	2005				137		137			411	411	2.13	3	0.0	0.5	
2006				0		0			0	0	na	0	na	na		
Bluegill	1998									54,619	22,871	0.30	277			
	1999				44,922		22,124			54,297	24,537	0.83	244	54.8	37.2	
	2000				80,586		23,563			89,623	25,705	0.19	288	71.3	42.1	
	2001				73,774		40,883			89,907	43,937	0.20	187	51.1	43.4	
	2002				64,767		30,876			85,803	36,272	0.27	242	57.7	48.1	
	2003				63,347		30,947			82,166	33,491	0.23	237	59.2	46.7	
	2004				49,171		18,958			66,695	25,700	0.27	324	61.5	47.5	
	2005				132,854		42,514			147,552	44,083	0.23	308	70.1	55.6	
2006				34,615		14,945			43,012	16,894	0.31	78	60.7	35.5		
White Bass	1998									430	84	0.88	3			
	1999	718	148		82	0.04	34	0.04	2	164	34	1.15	2	79.3	0.1	
	2000				0		0			0	0	na	0	na	0.0	
	2001	794	146		174	0.50	247			2,787	494	0.53	4	82.3	0.5	
	2002				0		0			2,646	1,484	0.52	20	43.9	2.0	
	2003	831	128	\$5,130	0	0.00	0	0.00	0	391	324	0.78	2	17.1	0.5	
	2004				129		0			3,738	1,908	0.47	13	49.0	3.5	
	2005	502	87	\$2,170	109	0.33	0	0.00	1	1,745	49	1.60	2	97.2	0.1	
2006				142					1,709	0	na	0	100.0	0.9		
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	

Table 7. Mean relative weight and standard error values by size class for Norris Reservoir black crappie collected during the 2007 electrofishing sample.

Size Class	Mean Wr	Std. Error	N
6	96.6	2.5	2
7	98.6	2.0	11
8	95.2	1.7	16
9	89.9	1.1	17
10	88.7	2.2	17
11	89.7	1.5	19
12	87.4	1.8	17
13	86.0	2.7	6

**Total Catch** 105

Table 8. Mean relative weight and standard error values by size class for Norris Reservoir black crappie collected during the 2007 trap net sample.

Size Class	Mean Wr	Std. Error	N
5	88.3	1.3	49
6	93.0	3.8	30
7	90.3	1.5	27
8	88.6	1.8	25
9	87.5	1.4	37
10	87.1	0.8	48
11	90.8	1.3	14
12	88.4	3.9	3

**Total Catch** 233

Table 9. Mean relative weight and standard error values by size class for Norris Reservoir largemouth bass collected during the 2007 electrofishing sample.

Size Class	Mean Wr	Std. Error	N
7	91.1		1
8	82.1		1
9	83.9	1.0	9
10	82.5	1.4	24
11	83.8	2.1	11
12	87.7	1.6	19
13	85.9	1.3	34
14	85.2	1.2	35
15	84.9	1.1	21
16	84.8	1.3	19
17	85.4	2.2	14
18	79.1	2.8	5
19	91.1	3.4	3
20	86.7	4.0	3
21	87.6		1
22	98.5		1

**Total Catch** 201

Table 10. Mean relative weight and standard error values by size class for Norris Reservoir smallmouth bass collected during the 2007 electrofishing sample.

<b>Size Class</b>	<b>Mean Wr</b>	<b>Std. Error</b>	<b>N</b>
9	73.8		1
10	79.3	6.0	2
11	77.6		1
12	88.5	1.3	2
13	89.4		1
14			
15	79.7		1
16	80.2		1
17	73.8		1

**Total Catch** 10

Table 11. Mean relative weight and standard error values by size class for Norris Reservoir spotted bass collected during the 2007 electrofishing sample.

<b>Size Class</b>	<b>Mean Wr</b>	<b>Std. Error</b>	<b>N</b>
8	92.4	1.0	19
9	94.0	1.2	22
10	92.7	1.0	21
11	92.2	1.4	19
12	94.2	2.1	12
13	86.6	2.2	5
14	84.7	2.0	2

**Total Catch** 100



Table 12. Mean relative weight and standard error values by size class for Norris Reservoir striped bass collected during the 2007 winter gill net sample.

Size Class	Mean Wr	Std. Error	N
14	103.6		1
15			
16	87.0		1
17	88.3	2.8	5
18	89.7	1.6	9
19	87.9	1.5	5
20			
21	93.0	2.7	3
22	92.7	1.5	7
23	96.8	1.1	5
24	88.8	1.3	2
25	94.1	4.7	2
26	97.2	6.5	3
27	93.6	9.9	2
28	86.2	4.0	3
29	91.6		1
30			
31			
32	94.1		1

**Total Catch** 50

Table 13. Mean relative weight and standard error values by size class for Norris Reservoir walleye collected during the 2007 winter gill net sample.

Size Class	Mean Wr	Std. Error	N
10	81.1		1
11	88.3		1
12			
13	95.4		1
14			
15	85.7	1.8	5
16	89.6	1.2	18
17	86.9	1.6	14
18	85.0	1.2	18
19	80.3	1.8	13
20	82.6	3.3	6
21	84.8	4.2	3
22	91.4		1
23	87.2		1

**Total Catch** 82

Table 14. Geometric means of Region IV's shad gill net catches in 2001-2007.

<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

Table 15. Summary of July 2007 Norris Reservoir water quality parameters at Clinch River Mile 80.

Depth (ft)	Temp F	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	82.8	287	7.1	6.9	C80	11.5	1100	7/2/2007
3	82.8	287	7.1	6.8				
7	82.6	287	7.1	6.9				
10	82.6	287	7.1	7.2				
13	82.4	287	7.1	7.0				
16	82.4	287	7.1	6.9				
20	79.2	284	7.1	8.6				
23	73.6	277	7.1	10.0				
26	68.4	280	7.0	10.0				
30	64.6	279	7.0	9.1				
33	61.9	282	6.9	8.4				
36	59.5	283	6.8	7.3				
39	57.4	284	6.8	7.2				
43	55.9	284	6.8	7.1				
46	54.9	285	6.7	7.2				
49	54.1	285	6.7	7.1				
52	53.6	287	6.7	7.2				
56	53.2	287	6.7	7.2				
59	52.7	289	6.7	7.1				
62	52.0	287	6.7	7.3				
66	51.3	286	6.7	7.6				
69	50.5	285	6.7	7.5				
72	49.8	285	6.6	7.5				
75	49.3	288	6.6	7.2				
79	48.7	289	6.6	7.2				
82	48.0	289	6.6	7.0				
85	47.3	288	6.6	6.7				
89	46.8	289	6.6	6.7				
92	46.4	290	6.6	6.4				
95	46.2	290	6.6	6.3				
98	46.0	290	6.5	6.4				

Table 16. Summary of July 2007 Norris Reservoir water quality parameters at Clinch River Mile 88.

Depth (ft)	Temp F	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	82.6	278	7.2	7.5	C88	9.8	1000	7/2/2007
3	82.8	277	7.1	7.8				
7	82.6	277	7.1	8.3				
10	82.6	278	7.1	8.2				
13	82.6	277	7.1	8.7				
16	79.5	277	7.1	9.8				
20	75.7	287	7.0	9.3				
23	72.1	291	7.0	10.1				
26	68.9	296	7.0	9.5				
30	64.0	298	6.9	8.4				
33	60.3	297	6.8	6.8				
36	58.1	299	6.8	6.2				
39	56.3	297	6.7	5.9				
43	55.2	299	6.7	5.7				
46	54.7	300	6.7	5.4				
49	53.8	300	6.7	5.3				
52	52.9	292	6.7	5.5				
56	52.3	284	6.7	5.4				
59	52.2	294	6.7	5.6				
62	51.3	288	6.6	5.5				
66	50.7	285	6.6	5.7				
69	49.8	283	6.6	5.7				
72	48.9	284	6.6	5.6				
75	48.2	285	6.6	5.5				
79	47.8	286	6.6	5.5				
82	47.1	287	6.6	5.5				
85	46.6	289	6.6	5.6				
89	46.0	289	6.6	5.7				
92	45.9	290	6.6	5.7				
95	45.7	290	6.6	5.6				
98	45.5	290	6.6	5.7				

Table 17. Summary of July 2007 Norris Reservoir water quality parameters at Clinch River Mile 120.

Depth (ft)	Temp F	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	82.6	266	8.6	7.2	C120	11.5	630	7/2/2007
3	82.6	266	8.4	7.5				
7	82.6	266	8.3	7.5				
10	82.6	266	8.2	7.5				
13	82.6	266	8.1	7.5				
16	80.2	282	7.9	6.9				
20	76.3	292	7.8	6.8				
23	71.6	290	7.7	6.3				
26	66.6	283	7.6	5.6				
30	62.4	276	7.5	4.7				
33	58.8	268	7.4	4.2				
36	57.0	261	7.4	3.7				
39	55.6	254	7.4	3.9				
43	54.3	249	7.4	4.1				
46	53.8	245	7.3	4.2				
49	52.9	243	7.3	4.2				
52	52.3	244	7.3	4.1				
56	51.6	248	7.3	4.2				
59	50.9	253	7.2	4.0				
62	50.2	260	7.2	3.8				
66	49.5	269	7.2	3.6				
69	48.7	280	7.2	2.9				
72	47.8	294	7.1	1.6				
75	47.5	298	7.1	1.2				
79	47.3	300	7.1	1.2				
82	46.8	304	7.0	1.2				
85	46.4	306	7.0	1.1				
89	46.2	307	7.0	0.9				

Table 18. Summary of July 2007 Norris Reservoir water quality parameters at Powell River Mile 19.

Depth (ft)	Temp F	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	82.9	283	8.1	7.4	P19	9.8	845	7/2/2007
3	83.1	283	7.8	7.5				
7	82.9	283	7.7	7.8				
10	82.9	283	7.6	7.8				
13	82.6	284	7.6	8.9				
16	78.8	336	7.5	10.1				
20	75.6	372	7.4	10.8				
23	70.9	371	7.3	11.2				
26	66.9	348	7.3	9.7				
30	63.9	331	7.2	5.7				
33	60.8	308	7.1	7.6				
36	57.7	290	7.1	8.0				
39	55.9	281	7.0	8.1				
43	54.9	274	7.0	8.6				
46	54.1	270	7.0	8.8				
49	53.6	266	7.0	8.8				
52	52.9	272	7.0	8.7				
56	52.5	283	6.9	9.4				
59	52.2	297	6.8	10.4				
62	51.4	304	6.8	9.4				
66	50.5	314	6.8	4.5				
69	50.0	321	6.8	4.3				
72	49.5	330	6.7	4.4				
75	48.9	330	6.7	4.7				
79	48.4	332	6.7	4.7				
82	47.8	333	6.7	4.9				
85	47.3	335	6.7	5.2				
89	47.1	335	6.7	5.5				
92	46.8	335	6.7	5.5				
95	46.6	334	6.7	5.4				
98	46.4	335	6.7	5.4				

Table 19. Summary of August 2007 Norris Reservoir water quality parameters at Clinch River Mile 80.

Depth (ft)	Temp F	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	82.8	279	7.9	7.1	C80	12.1	905	8/1/2007
3	82.8	279	7.8	7.6				
7	82.8	279	7.8	7.6				
10	82.4	279	7.8	8.2				
13	81.7	279	7.7	8.1				
16	80.8	279	7.7	8.3				
20	80.1	278	7.6	8.4				
23	79.2	279	7.6	8.3				
26	77.0	276	7.5	8.7				
30	72.1	271	7.5	9.4				
33	69.8	277	7.4	8.8				
36	67.3	275	7.4	8.2				
39	63.9	280	7.3	7.6				
43	61.9	281	7.3	6.8				
46	59.9	283	7.2	6.5				
49	57.2	284	7.2	6.4				
52	56.3	285	7.1	6.5				
56	55.2	286	7.1	6.6				
59	54.5	287	7.1	6.7				
62	54.1	290	7.1	6.5				
66	53.8	297	7.1	6.1				
69	53.6	299	7.0	6.0				
72	53.1	300	7.0	5.8				
75	52.5	295	7.0	5.6				
79	52.2	289	7.0	5.3				
82	51.8	287	7.0	5.0				
85	51.4	291	7.0	5.0				
89	51.1	287	7.0	5.3				
92	50.9	288	7.0	5.3				
95	50.4	289	7.0	5.1				
98	50.0	289	7.0	4.7				

Table 20. Summary of August 2007 Norris Reservoir water quality parameters at Clinch River Mile 88.

Depth (ft)	Temp F	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	83.1	273	7.7	7.7	C88	6.6	1010	8/1/2007
3	82.9	273	7.7	7.4				
7	82.8	273	7.7	6.8				
10	82.0	273	7.6	8.4				
13	80.6	267	7.7	7.8				
16	80.1	264	7.6	7.3				
20	79.5	263	7.6	8.1				
23	79.0	261	7.6	7.9				
26	78.4	263	7.5	8.5				
30	74.1	292	7.5	10.1				
33	70.3	293	7.4	9.1				
36	65.8	294	7.3	7.1				
39	63.3	299	7.3	6.0				
43	60.6	301	7.2	5.0				
46	58.3	295	7.2	5.0				
49	57.0	293	7.2	4.2				
52	56.3	285	7.1	4.3				
56	55.2	281	7.1	3.7				
59	54.7	280	7.1	3.9				
62	54.0	277	7.1	3.6				
66	53.6	278	7.0	3.4				
69	53.1	277	7.0	3.2				
72	52.5	277	7.0	3.0				
75	52.0	277	7.0	2.9				
79	51.8	277	7.0	2.9				
82	51.6	277	7.0	2.9				
85	51.1	278	7.0	2.9				
89	50.5	278	7.0	2.9				
92	50.2	278	7.0	3.0				
95	50.0	279	6.9	3.0				
98	49.6	280	6.9	3.0				

Table 21. Summary of August 2007 Norris Reservoir water quality parameters at Clinch River Mile 120.

Depth (ft)	Temp F	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	81.9	280	7.6	8.3	C120	9.2	650	8/1/2007
3	81.9	280	7.8	8.2				
7	81.9	280	7.8	8.2				
10	81.0	276	7.8	8.0				
13	80.4	276	8.0	7.8				
16	79.7	276	7.9	7.5				
20	79.0	279	7.8	6.6				
23	78.6	283	7.7	5.9				
26	76.1	294	7.6	3.7				
30	71.8	302	7.4	3.1				
33	68.2	294	7.3	3.1				
36	65.5	285	7.3	2.8				
39	61.9	283	7.2	2.5				
43	59.4	270	7.2	2.4				
46	57.7	267	7.2	2.2				
49	56.7	264	7.1	2.3				
52	55.4	256	7.1	2.3				
56	54.7	254	7.0	2.2				
59	54.1	252	7.0	2.2				
62	53.4	253	7.0	2.2				
66	52.9	252	7.0	2.0				
69	52.5	254	7.0	2.0				
72	52.2	256	6.9	1.8				
75	51.4	260	6.9	1.8				
79	51.1	263	6.9	1.7				
82	50.4	271	6.9	1.8				

Table 22. Summary of August 2007 Norris Reservoir water quality parameters at Powell River Mile 19.

Depth (ft)	Temp F	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	83.3	308	7.7	8.1	P19	9.2	1115	8/1/2007
3	82.4	308	7.7	7.6				
7	82.2	308	7.7	7.6				
10	81.9	304	7.8	7.6				
13	80.6	305	7.7	7.7				
16	79.9	309	7.7	7.1				
20	79.2	314	7.6	4.7				
23	77.9	330	7.5	4.5				
26	76.1	375	7.3	3.5				
30	73.2	398	7.2	2.8				
33	69.3	391	7.2	3.0				
36	66.4	360	7.2	2.7				
39	63.0	334	7.2	1.1				
43	61.0	316	7.2	1.1				
46	59.4	300	7.1	1.2				
49	57.4	286	7.1	1.6				
52	56.1	277	7.1	2.3				
56	55.0	270	7.1	3.3				
59	54.5	270	7.1	3.0				
62	53.8	266	7.0	2.9				
66	53.4	270	7.0	2.9				
69	53.1	272	7.0	2.8				
72	52.5	276	7.0	2.9				
75	52.2	281	7.0	2.5				
79	51.8	283	7.0	2.9				
82	51.3	291	6.9	3.0				
85	50.7	299	6.9	2.9				
89	50.2	307	6.9	3.4				
92	49.6	316	6.9	2.9				
95	49.1	324	6.9	2.3				
98	48.6	332	6.9	1.7				

Table 23. Summary of September 2007 Norris Reservoir water quality parameters at Clinch River Mile 80.

Depth (ft)	Temp F	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	84.4	280	8.1	6.4	C80	14.8	856	9/5/2007
3	84.4	280	8.1	6.5				
7	84.4	280	8.1	6.7				
10	84.4	280	8.1	6.7				
13	84.4	280	8.1	6.7				
16	84.4	280	8.1	6.3				
20	84.4	280	8.1	6.4				
23	83.5	278	8.0	6.0				
26	81.0	273	8.0	6.0				
30	78.3	267	7.9	5.4				
33	76.1	264	7.8	5.9				
36	74.7	267	7.8	5.9				
39	72.1	272	7.7	5.6				
43	70.2	275	7.7	5.4				
46	68.0	275	7.6	5.2				
49	66.2	276	7.6	4.6				
52	64.4	278	7.6	4.6				
56	63.0	281	7.5	5.0				
59	61.5	282	7.5	4.5				
62	60.6	285	7.5	4.7				
66	59.2	289	7.5	4.1				
69	58.1	288	7.5	3.2				
72	57.2	284	7.5	2.2				
75	56.5	283	7.4	1.9				
79	56.1	282	7.4	1.7				
82	55.6	281	7.4	1.7				
85	55.2	279	7.4	1.4				
89	54.9	278	7.4	1.4				
92	54.5	276	7.4	1.5				
95	54.0	274	7.4	1.5				
98	53.6	272	7.4	1.4				

Table 24. Summary of September 2007 Norris Reservoir water quality parameters at Clinch River Mile 88.

Depth (ft)	Temp F	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	84.0	265	8.2	6.8	C88	11.5	1000	9/5/2007
3	84.2	264	8.2	6.2				
7	84.2	264	8.2	6.3				
10	84.2	264	8.2	6.3				
13	84.2	264	8.2	6.1				
16	84.0	263	8.2	6.0				
20	84.0	263	8.1	5.8				
23	83.8	263	8.1	6.0				
26	81.1	278	8.0	5.6				
30	79.3	285	8.0	5.2				
33	77.2	308	7.8	4.7				
36	75.2	317	7.8	4.4				
39	72.9	334	7.7	3.1				
43	70.3	322	7.7	3.4				
46	68.4	309	7.7	4.0				
49	66.6	303	7.7	4.0				
52	64.2	295	7.7	3.7				
56	62.8	289	7.6	2.4				
59	61.2	285	7.6	1.4				
62	59.7	281	7.6	0.6				
66	58.6	278	7.6	0.4				
69	57.9	277	7.6	0.3				
72	57.0	273	7.5	0.2				
75	56.7	271	7.5	0.2				
79	55.9	267	7.5	0.2				
82	55.6	265	7.5	0.2				
85	55.0	263	7.5	0.2				
89	54.5	261	7.5	0.2				
92	54.1	258	7.5	0.2				
95	53.8	258	7.5	0.2				
98	53.4	257	7.5	0.2				

Table 25. Summary of September 2007 Norris Reservoir water quality parameters at Clinch River Mile 120.

Depth (ft)	Temp F	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	83.7	280	8.9	7.4	C120	9.8	700	9/5/2007
3	83.7	279	8.7	7.2				
7	83.7	279	8.4	7.2				
10	83.7	279	8.2	7.5				
13	83.7	279	8.1	6.5				
16	83.7	279	8.0	7.0				
20	83.7	279	8.0	7.2				
23	82.9	290	7.9	5.1				
26	81.5	307	7.7	3.2				
30	79.2	322	7.6	2.4				
33	76.6	332	7.5	1.9				
36	75.0	334	7.5	1.9				
39	73.6	332	7.4	1.7				
43	71.1	322	7.4	1.4				
46	69.1	315	7.3	1.3				
49	67.3	300	7.3	1.2				
52	65.3	310	7.3	1.1				
56	63.3	302	7.2	1.1				
59	61.2	304	7.2	1.0				
62	59.7	302	7.1	1.0				
66	58.6	307	7.1	0.9				
69	57.9	314	7.1	0.9				

Table 26. Summary of September 2007 Norris Reservoir water quality parameters at Powell River Mile 19.

Depth (ft)	Temp F	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	84.4	301	8.1	6.4	P19	9.2	1116	9/5/2007
3	84.0	301	8.1	6.4				
7	84.0	301	8.2	6.5				
10	84.0	301	8.2	6.7				
13	84.0	301	8.2	6.8				
16	84.0	300	8.2	5.6				
20	83.8	300	8.2	6.6				
23	83.3	300	8.1	3.5				
26	80.6	342	7.9	4.3				
30	79.2	351	7.8	3.1				
33	77.5	356	7.7	2.4				
36	75.7	360	7.7	2.3				
39	73.8	382	7.6	2.4				
43	71.1	385	7.6	2.4				
46	68.4	388	7.6	2.5				
49	66.6	370	7.6	2.5				
52	64.8	359	7.6	2.5				
56	63.3	337	7.6	2.6				
59	61.5	326	7.6	2.4				
62	60.4	316	7.6	2.5				
66	59.0	306	7.6	2.5				
69	58.1	299	7.6	2.5				
72	57.7	297	7.5	2.5				
75	56.8	294	7.5	0.4				
79	56.1	291	7.5	0.4				
82	55.8	291	7.5	0.3				
85	55.0	291	7.5	0.2				
89	54.5	292	7.5	0.2				
92	54.0	290	7.5	0.2				
95	53.6	290	7.5	0.2				
98	53.1	290	7.4	0.2				



Table 27. Norris Reservoir water levels for 2007. (TVA)

ELEVATION	MONTH	DAY	ELEVATION	MONTH	DAY	ELEVATION	MONTH	DAY
999.53	JANUARY	1	996.97	FEBRUARY	24	1016.19	APRIL	19
999.65	JANUARY	2	997.10	FEBRUARY	25	1016.55	APRIL	20
999.71	JANUARY	3	997.25	FEBRUARY	26	1016.82	APRIL	21
999.54	JANUARY	4	997.38	FEBRUARY	27	1017.07	APRIL	22
999.39	JANUARY	5	997.50	FEBRUARY	28	1017.25	APRIL	23
999.32	JANUARY	6	997.75	MARCH	1	1017.43	APRIL	24
999.39	JANUARY	7	998.42	MARCH	2	1017.58	APRIL	25
999.51	JANUARY	8	999.30	MARCH	3	1017.78	APRIL	26
999.70	JANUARY	9	1000.00	MARCH	4	1017.96	APRIL	27
999.77	JANUARY	10	1000.39	MARCH	5	1018.13	APRIL	28
999.58	JANUARY	11	1000.73	MARCH	6	1018.27	APRIL	29
999.45	JANUARY	12	1000.96	MARCH	7	1018.41	APRIL	30
999.54	JANUARY	13	1001.14	MARCH	8	1018.51	MAY	1
999.62	JANUARY	14	1001.27	MARCH	9	1018.58	MAY	2
999.41	JANUARY	15	1001.41	MARCH	10	1018.67	MAY	3
999.12	JANUARY	16	1001.53	MARCH	11	1018.81	MAY	4
998.82	JANUARY	17	1001.63	MARCH	12	1018.96	MAY	5
998.58	JANUARY	18	1001.72	MARCH	13	1019.13	MAY	6
998.45	JANUARY	19	1001.81	MARCH	14	1019.24	MAY	7
998.67	JANUARY	20	1001.94	MARCH	15	1019.36	MAY	8
998.95	JANUARY	21	1002.41	MARCH	16	1019.43	MAY	9
998.97	JANUARY	22	1003.09	MARCH	17	1019.49	MAY	10
999.03	JANUARY	23	1003.86	MARCH	18	1019.54	MAY	11
998.99	JANUARY	24	1004.32	MARCH	19	1019.60	MAY	12
998.94	JANUARY	25	1004.73	MARCH	20	1019.63	MAY	13
998.77	JANUARY	26	1005.02	MARCH	21	1019.64	MAY	14
998.54	JANUARY	27	1005.25	MARCH	22	1019.66	MAY	15
998.45	JANUARY	28	1005.43	MARCH	23	1019.70	MAY	16
998.17	JANUARY	29	1005.63	MARCH	24	1019.71	MAY	17
998.01	JANUARY	30	1005.74	MARCH	25	1019.71	MAY	18
997.77	JANUARY	31	1005.91	MARCH	26	1019.72	MAY	19
997.42	FEBRUARY	1	1006.02	MARCH	27	1019.72	MAY	20
997.45	FEBRUARY	2	1006.16	MARCH	28	1019.72	MAY	21
997.42	FEBRUARY	3	1006.29	MARCH	29	1019.71	MAY	22
997.30	FEBRUARY	4	1006.40	MARCH	30	1019.69	MAY	23
997.17	FEBRUARY	5	1006.51	MARCH	31	1019.65	MAY	24
996.95	FEBRUARY	6	1006.68	APRIL	1	1019.52	MAY	25
996.97	FEBRUARY	7	1006.80	APRIL	2	1019.45	MAY	26
996.80	FEBRUARY	8	1007.06	APRIL	3	1019.39	MAY	27
996.66	FEBRUARY	9	1007.26	APRIL	4	1019.22	MAY	28
996.49	FEBRUARY	10	1007.57	APRIL	5	1019.01	MAY	29
996.51	FEBRUARY	11	1007.88	APRIL	6	1018.93	MAY	30
996.53	FEBRUARY	12	1008.13	APRIL	7	1018.84	MAY	31
996.54	FEBRUARY	13	1008.33	APRIL	8	1018.61	JUNE	1
996.46	FEBRUARY	14	1008.44	APRIL	9	1018.46	JUNE	2
996.37	FEBRUARY	15	1008.59	APRIL	10	1018.33	JUNE	3
996.28	FEBRUARY	16	1008.83	APRIL	11	1018.10	JUNE	4
996.33	FEBRUARY	17	1009.10	APRIL	12	1017.98	JUNE	5
996.37	FEBRUARY	18	1009.31	APRIL	13	1017.84	JUNE	6
996.38	FEBRUARY	19	1009.97	APRIL	14	1017.61	JUNE	7
996.45	FEBRUARY	20	1011.44	APRIL	15	1017.37	JUNE	8
996.47	FEBRUARY	21	1013.53	APRIL	16	1017.19	JUNE	9
996.53	FEBRUARY	22	1015.00	APRIL	17	1017.06	JUNE	10
996.73	FEBRUARY	23	1015.71	APRIL	18	1016.87	JUNE	11

Table 28. Norris Reservoir water levels for 2007. (TVA)

ELEVATION	MONTH	DAY	ELEVATION	MONTH	DAY	ELEVATION	MONTH	DAY
1016.67	JUNE	12	1005.15	AUGUST	5	991.66	SEPTEMBER	28
1016.48	JUNE	13	1004.83	AUGUST	6	991.55	SEPTEMBER	29
1016.34	JUNE	14	1004.53	AUGUST	7	991.44	SEPTEMBER	30
1016.20	JUNE	15	1004.16	AUGUST	8	991.26	OCTOBER	1
1016.09	JUNE	16	1003.77	AUGUST	9	991.09	OCTOBER	2
1016.00	JUNE	17	1003.39	AUGUST	10	990.79	OCTOBER	3
1015.82	JUNE	18	1003.11	AUGUST	11	990.54	OCTOBER	4
1015.61	JUNE	19	1002.83	AUGUST	12	990.24	OCTOBER	5
1015.45	JUNE	20	1002.28	AUGUST	13	990.16	OCTOBER	6
1015.30	JUNE	21	1001.81	AUGUST	14	989.97	OCTOBER	7
1015.13	JUNE	22	1001.28	AUGUST	15	989.72	OCTOBER	8
1015.06	JUNE	23	1000.79	AUGUST	16	989.51	OCTOBER	9
1014.97	JUNE	24	1000.37	AUGUST	17	989.20	OCTOBER	10
1014.76	JUNE	25	1000.03	AUGUST	18	988.96	OCTOBER	11
1014.59	JUNE	26	999.73	AUGUST	19	988.70	OCTOBER	12
1014.29	JUNE	27	999.20	AUGUST	20	988.53	OCTOBER	13
1014.03	JUNE	28	998.71	AUGUST	21	988.36	OCTOBER	14
1013.76	JUNE	29	998.21	AUGUST	22	988.06	OCTOBER	15
1013.66	JUNE	30	997.75	AUGUST	23	987.85	OCTOBER	16
1013.57	JULY	1	997.25	AUGUST	24	987.60	OCTOBER	17
1013.27	JULY	2	996.91	AUGUST	25	987.35	OCTOBER	18
1012.89	JULY	3	996.63	AUGUST	26	987.24	OCTOBER	19
1012.68	JULY	4	996.11	AUGUST	27	987.08	OCTOBER	20
1012.36	JULY	5	995.59	AUGUST	28	986.87	OCTOBER	21
1012.04	JULY	6	995.05	AUGUST	29	986.75	OCTOBER	22
1011.90	JULY	7	994.92	AUGUST	30	986.67	OCTOBER	23
1011.71	JULY	8	994.74	AUGUST	31	986.57	OCTOBER	24
1011.38	JULY	9	994.62	SEPTEMBER	1	986.40	OCTOBER	25
1011.00	JULY	10	994.47	SEPTEMBER	2	986.22	OCTOBER	26
1010.69	JULY	11	994.33	SEPTEMBER	3	986.07	OCTOBER	27
1010.43	JULY	12	994.25	SEPTEMBER	4	985.92	OCTOBER	28
1010.26	JULY	13	994.14	SEPTEMBER	5	985.78	OCTOBER	29
1010.09	JULY	14	994.04	SEPTEMBER	6	985.61	OCTOBER	30
1009.91	JULY	15	993.94	SEPTEMBER	7	985.43	OCTOBER	31
1009.61	JULY	16	993.82	SEPTEMBER	8	985.41	NOVEMBER	1
1009.20	JULY	17	993.71	SEPTEMBER	9	985.37	NOVEMBER	2
1008.88	JULY	18	993.63	SEPTEMBER	10	985.37	NOVEMBER	3
1008.59	JULY	19	993.62	SEPTEMBER	11	985.29	NOVEMBER	4
1008.23	JULY	20	993.51	SEPTEMBER	12	985.33	NOVEMBER	5
1007.98	JULY	21	993.39	SEPTEMBER	13	985.28	NOVEMBER	6
1007.77	JULY	22	993.39	SEPTEMBER	14	985.25	NOVEMBER	7
1007.52	JULY	23	993.30	SEPTEMBER	15	985.22	NOVEMBER	8
1007.21	JULY	24	993.19	SEPTEMBER	16	985.16	NOVEMBER	9
1007.08	JULY	25	993.08	SEPTEMBER	17	985.14	NOVEMBER	10
1006.82	JULY	26	992.99	SEPTEMBER	18	985.11	NOVEMBER	11
1006.60	JULY	27	992.89	SEPTEMBER	19	985.04	NOVEMBER	12
1006.86	JULY	28	992.79	SEPTEMBER	20	985.06	NOVEMBER	13
1006.85	JULY	29	992.64	SEPTEMBER	21	985.09	NOVEMBER	14
1006.69	JULY	30	992.55	SEPTEMBER	22	985.05	NOVEMBER	15
1006.37	JULY	31	992.43	SEPTEMBER	23	985.05	NOVEMBER	16
1006.12	AUGUST	1	992.31	SEPTEMBER	24	985.03	NOVEMBER	17
1005.86	AUGUST	2	992.14	SEPTEMBER	25	985.01	NOVEMBER	18
1005.55	AUGUST	3	991.99	SEPTEMBER	26	985.00	NOVEMBER	19
1005.35	AUGUST	4	991.82	SEPTEMBER	27	984.98	NOVEMBER	20

Table 29. Norris Reservoir water levels for 2007. (TVA)

ELEVATION	MONTH	DAY
984.96	NOVEMBER	21
985.01	NOVEMBER	22
984.91	NOVEMBER	23
984.89	NOVEMBER	24
984.86	NOVEMBER	25
984.99	NOVEMBER	26
985.01	NOVEMBER	27
984.99	NOVEMBER	28
984.95	NOVEMBER	29
984.94	NOVEMBER	30
984.91	DECEMBER	1
984.89	DECEMBER	2
984.89	DECEMBER	3
984.84	DECEMBER	4
984.80	DECEMBER	5
984.82	DECEMBER	6
984.77	DECEMBER	7
984.75	DECEMBER	8
984.79	DECEMBER	9
984.71	DECEMBER	10
984.71	DECEMBER	11
984.70	DECEMBER	12
984.69	DECEMBER	13
984.68	DECEMBER	14
984.64	DECEMBER	15
984.66	DECEMBER	16
984.67	DECEMBER	17
984.64	DECEMBER	18
984.67	DECEMBER	19
984.72	DECEMBER	20
984.63	DECEMBER	21
984.69	DECEMBER	22
984.68	DECEMBER	23
984.72	DECEMBER	24
984.71	DECEMBER	25
984.72	DECEMBER	26
984.71	DECEMBER	27
984.83	DECEMBER	28
984.89	DECEMBER	29
985.00	DECEMBER	30
985.02	DECEMBER	31

Table 30. Norris Reservoir fish habitat enhancement summary for 2007.

LOCATION	NEW SITES			RENOVATED SITES			EXPANDED SITES		
	NUMBER	UNITS	ACRES	NUMBER	UNITS	ACRES	NUMBER	UNITS	ACRES
CRM 83.0 L*				1	200	4.00			
PRM 98.25 R*				1	75	1.50			
TOTAL				2	275	5.50			

\*Christmas trees, pallets and block

Table 31. Length range and weighted mean length by age of striped bass from the 2007 Norris winter gill net sample.

AGE	Minimum length at capture	Weighted mean length at capture	Maximum length at capture	N
2	14.3	<b>18.3</b>	19.6	20
3	17.8	<b>22.8</b>	26.4	20
4	25.2	<b>27.5</b>	28.9	8
5	29.8	<b>29.8</b>	29.8	1
6	32.3	<b>32.3</b>	32.3	1

Table 32. Length range and weighted mean length by age of walleye from Norris Reservoir 2007 winter gill net sample.

AGE	Minimum length at capture	Weighted mean length at capture	Maximum length at capture	N
1	10.3	<b>11.7</b>	13.2	3
2	15.6	<b>16.6</b>	18.7	27
3	17.0	<b>18.4</b>	20.8	13
4	17.6	<b>18.9</b>	22.4	23
5	18.8	<b>19.5</b>	20.1	5
6	18.8	<b>19.8</b>	20.8	4
7	19.8	<b>21.5</b>	24.0	4

## Figures

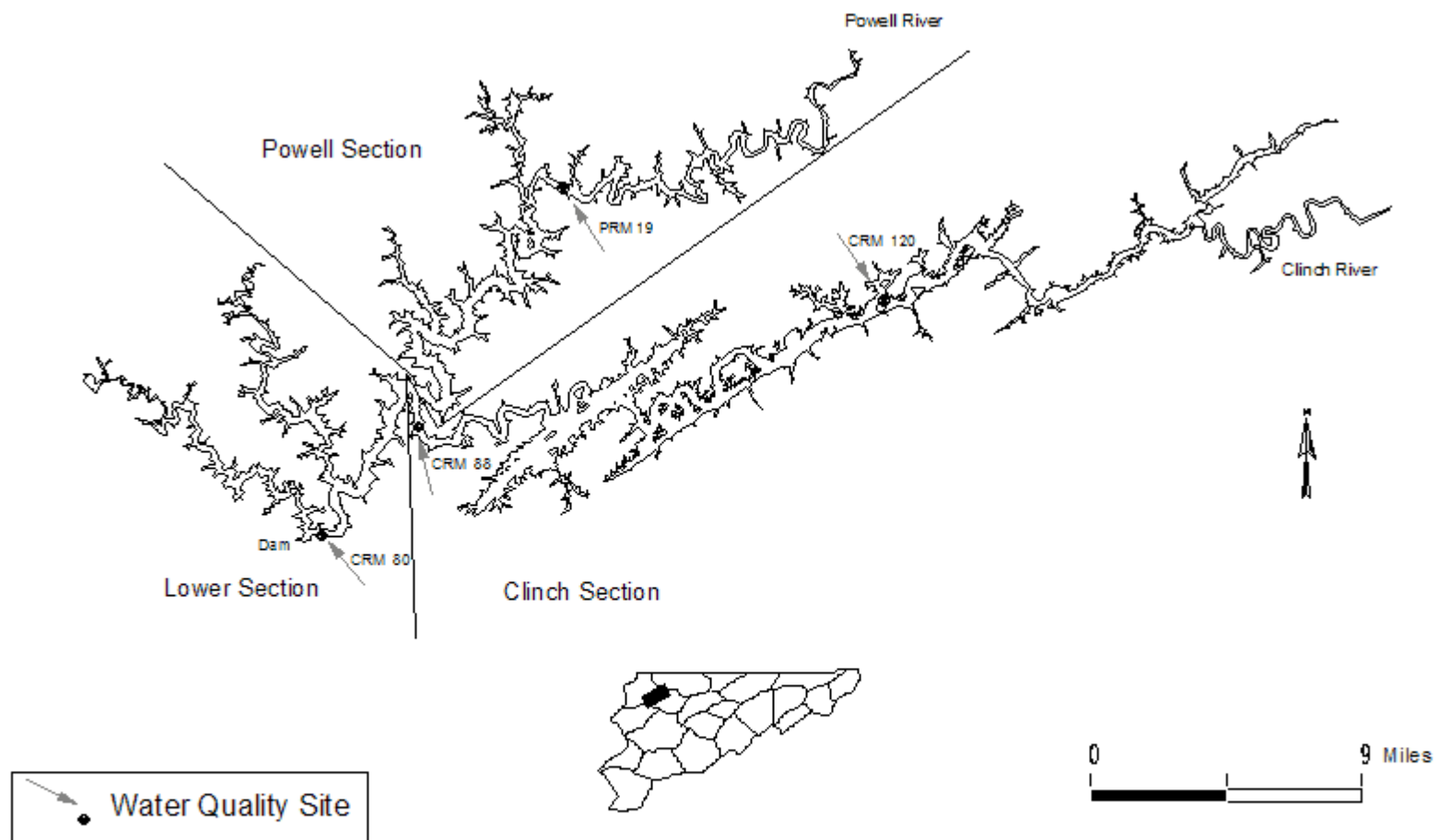


Figure 1. Water quality sites and the Clinch, Powell and lower section boundaries of Norris Reservoir in 2007.

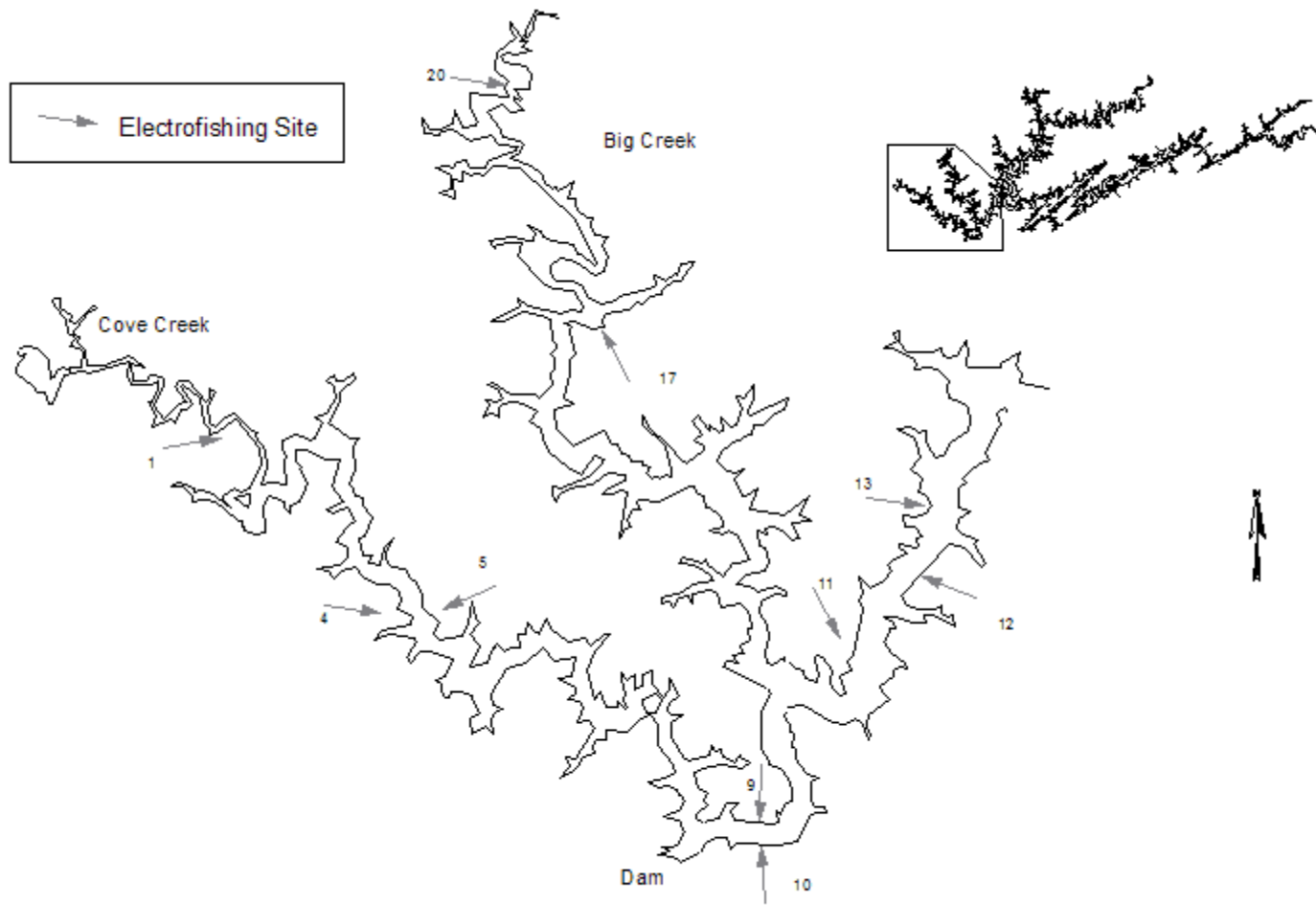


Figure 2. Electrofishing sites in the lower section of Norris Reservoir in 2007



Figure 3. Electrofishing sites in the Powell section of Norris Reservoir in 2007.



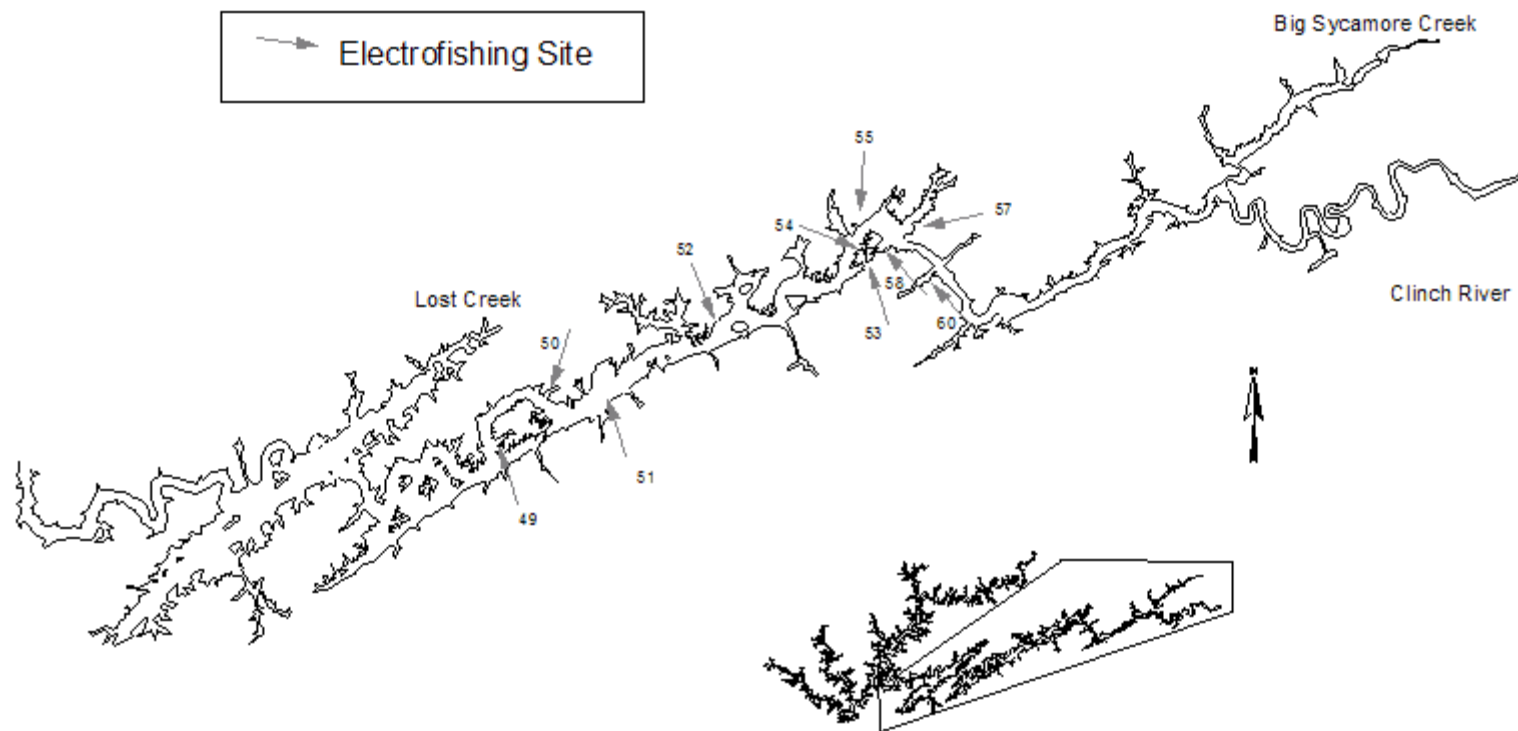


Figure 4. Electrofishing sites in the Clinch section of Norris Reservoir in 2007.

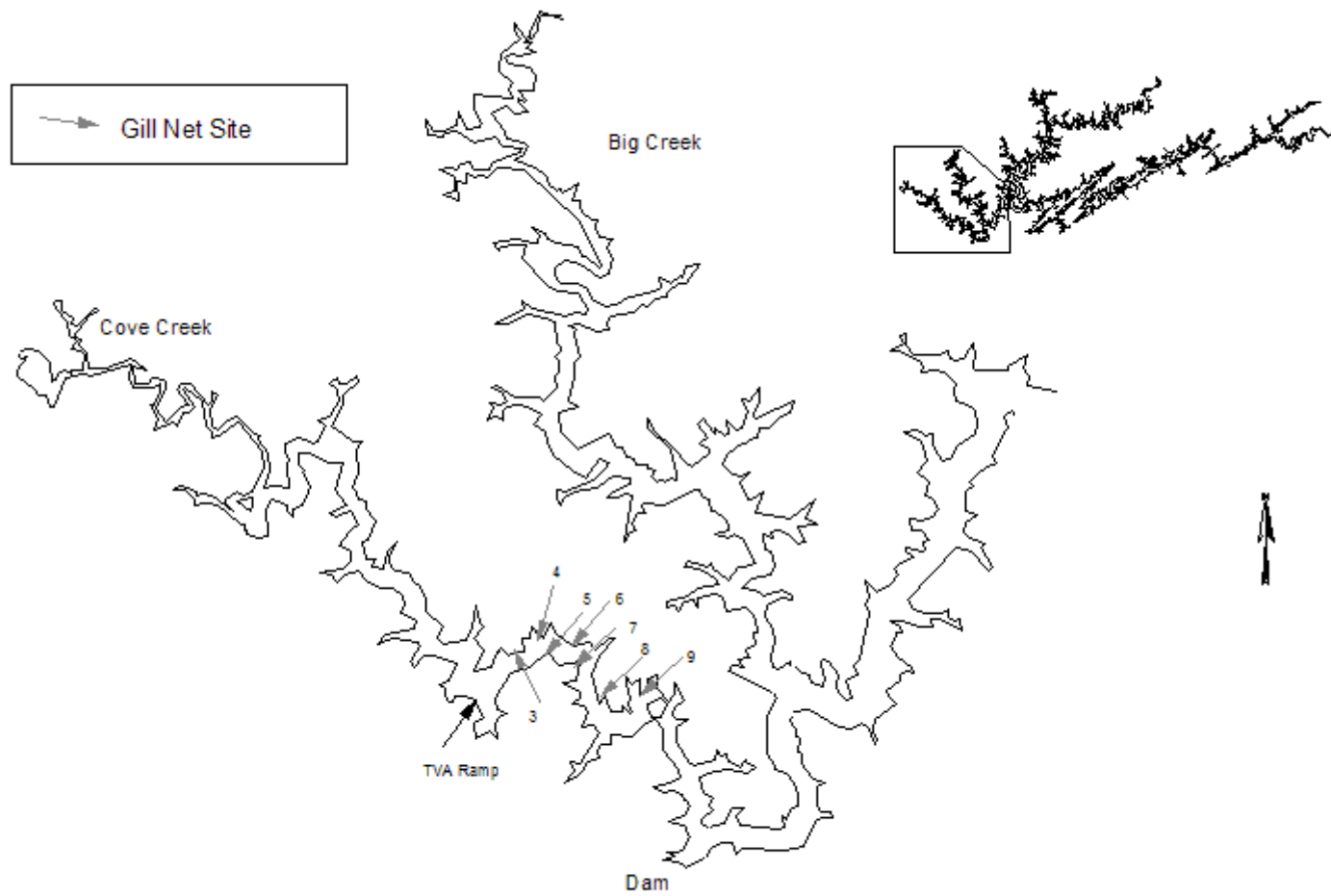


Figure 5. Gill net sites in the Cove Creek area of Norris Reservoir in 2007.

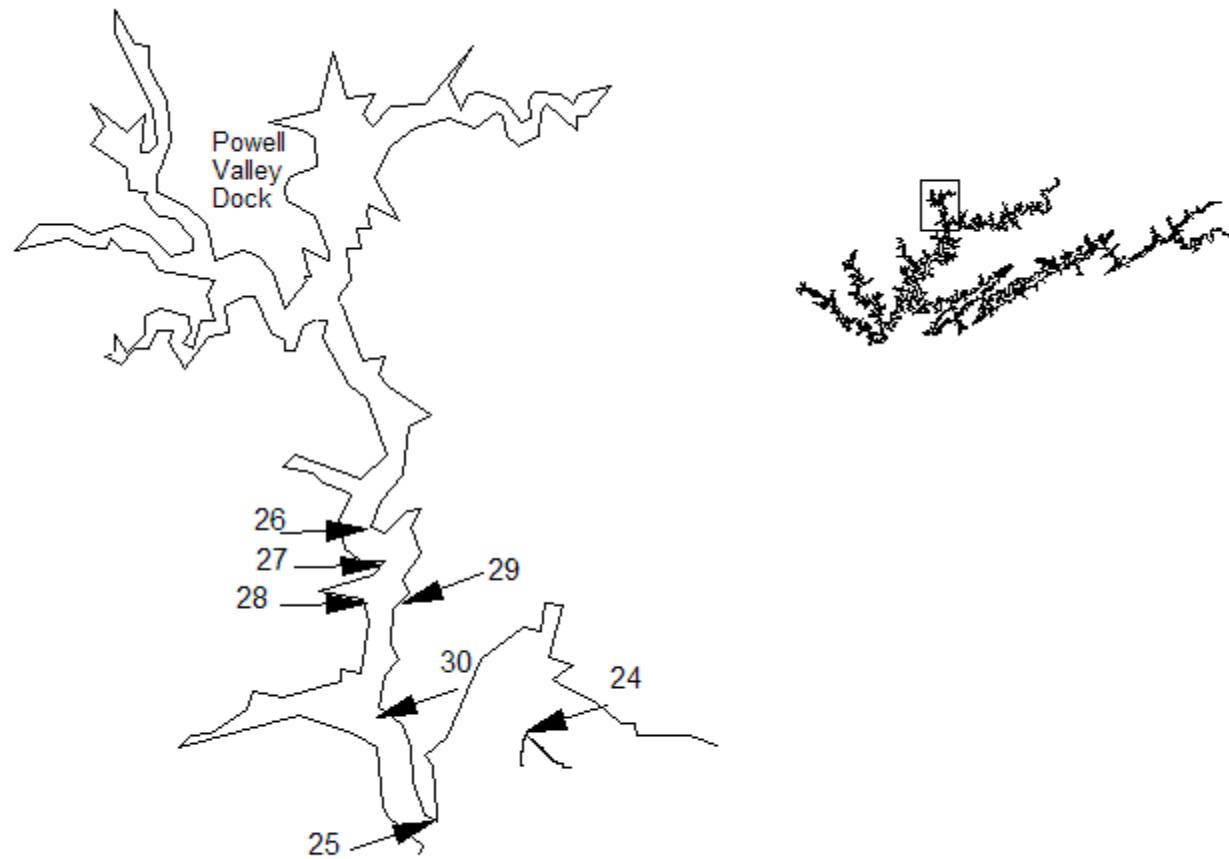


Figure 6. Winter gill net sites in the Davis Creek area of Norris Reservoir in 2007.

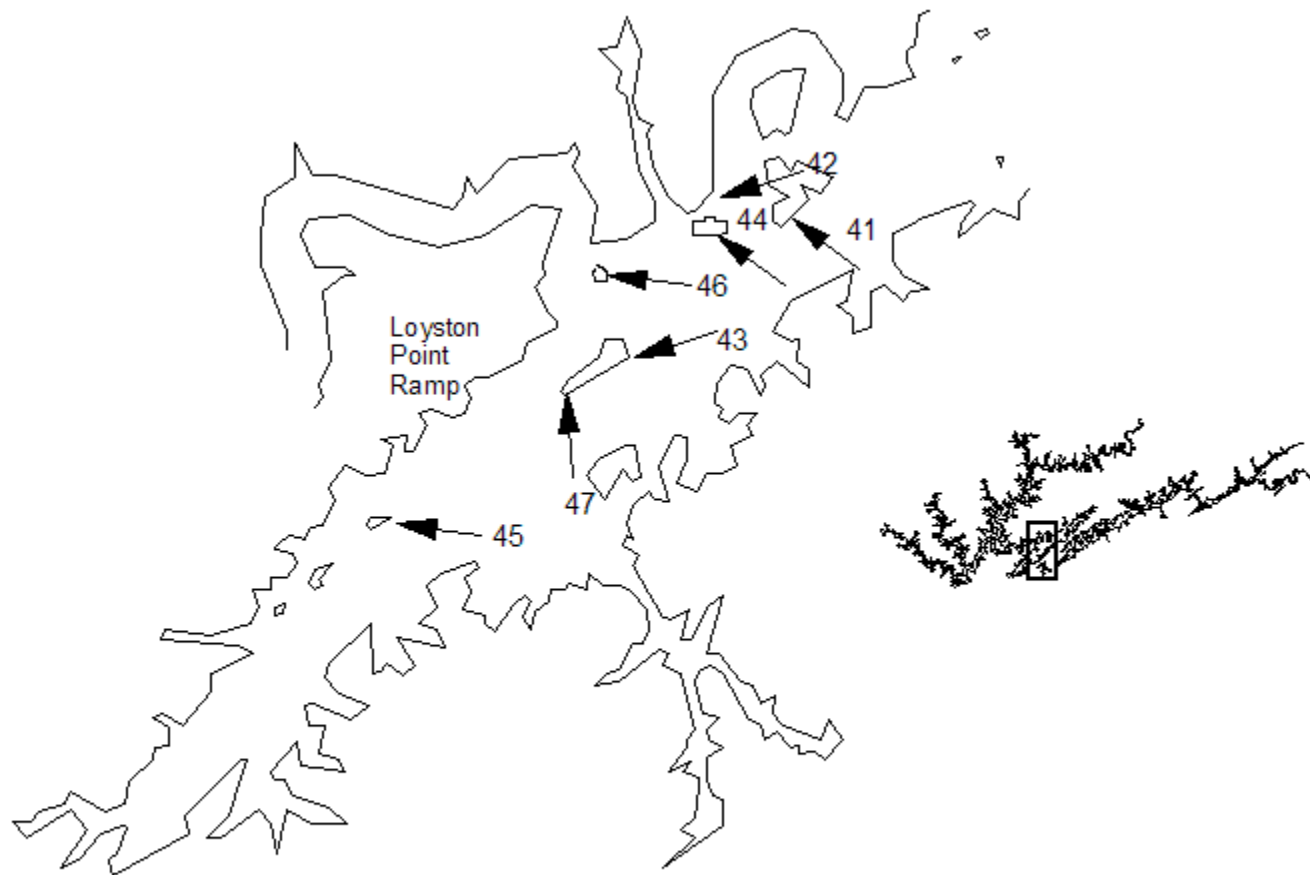


Figure 7. Winter gill net sites in the Loyston Sea area of Norris Reservoir in 2007.



Figure 8. Winter gill net sites in the upper Clinch area of Norris Reservoir in 2007.

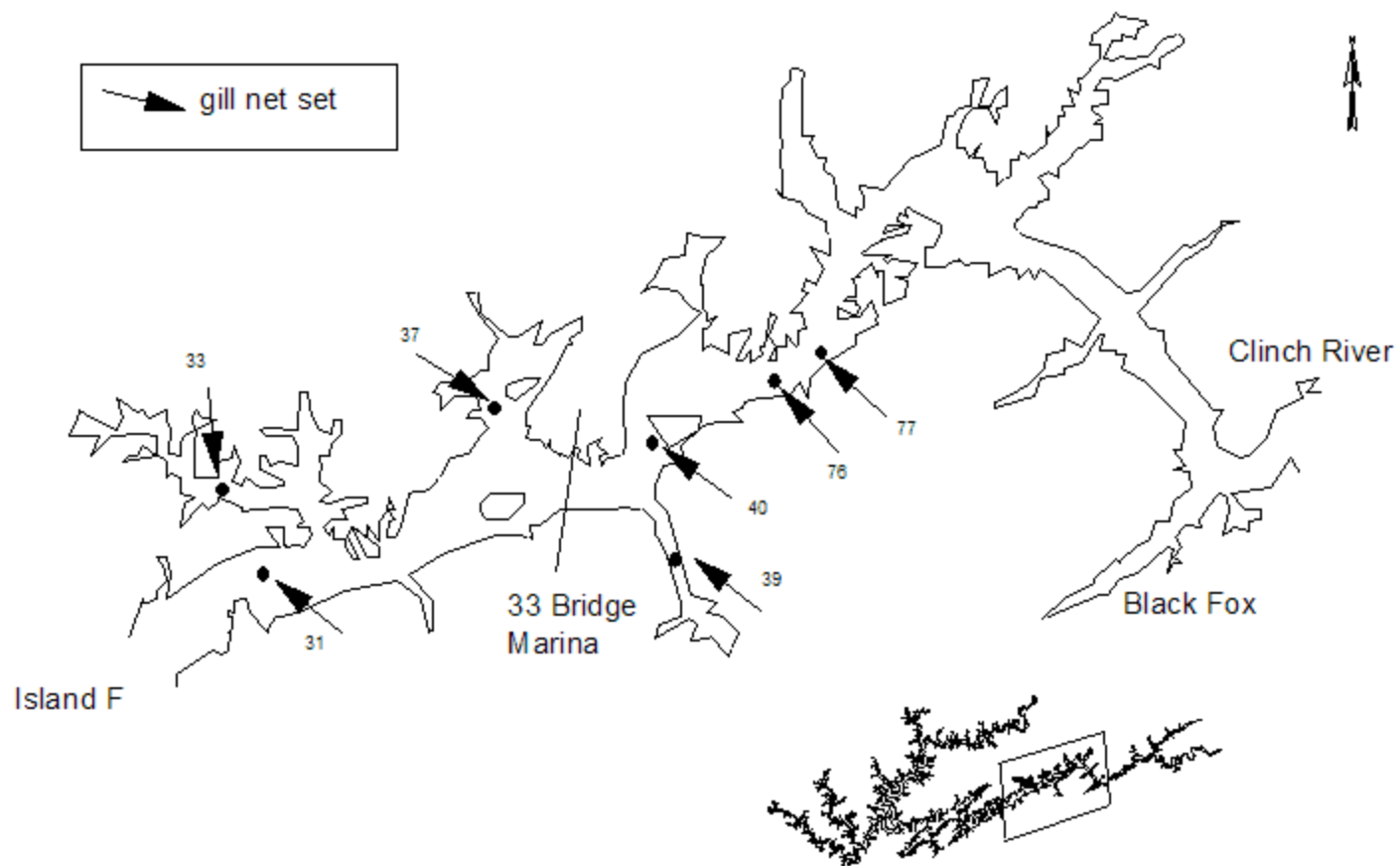


Figure 9. Summer shad gill net sites in the Clinch section of Norris Reservoir in 2007.

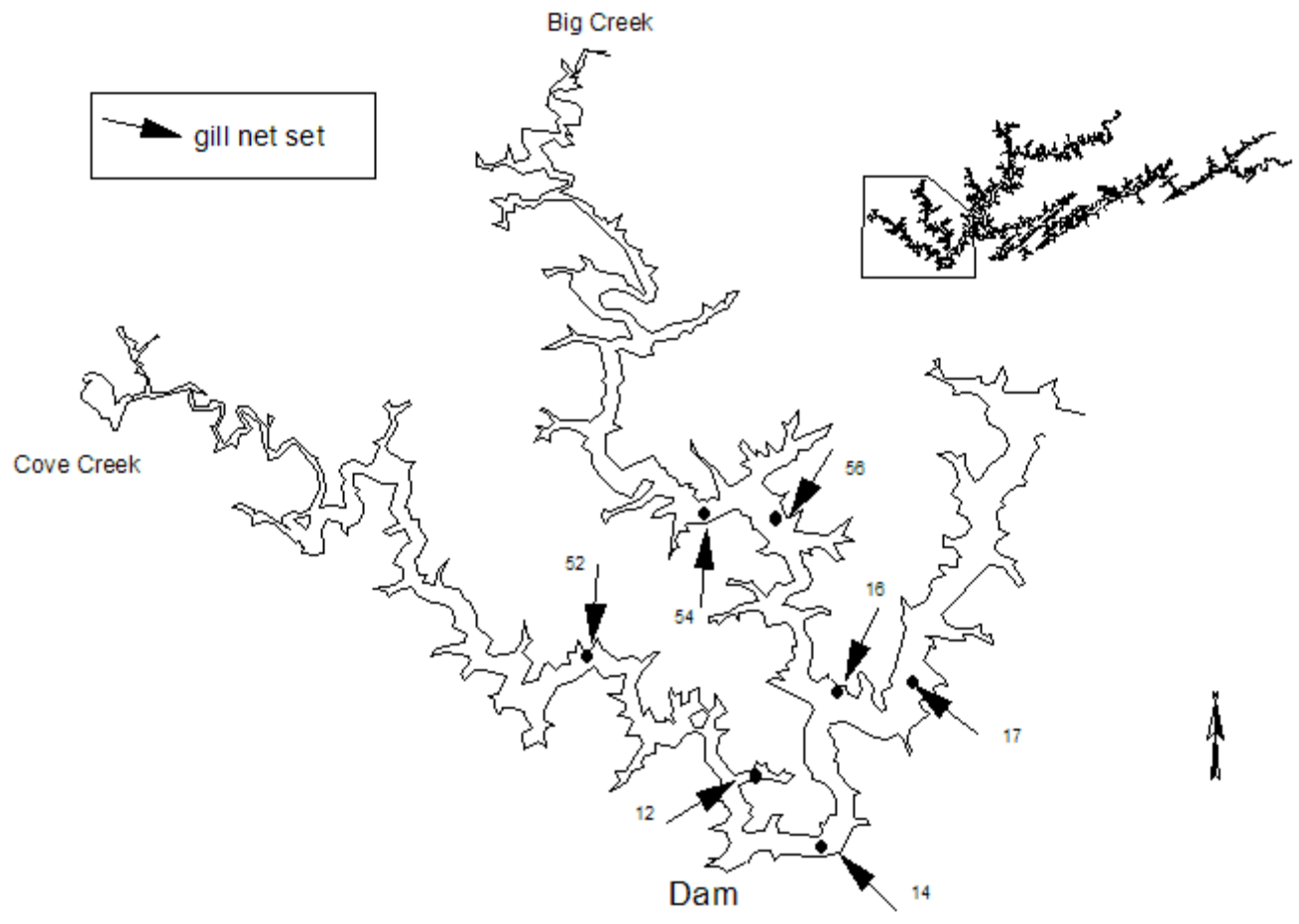


Figure 10. Summer shad gill net sites in the lower section of Norris Reservoir in 2007.

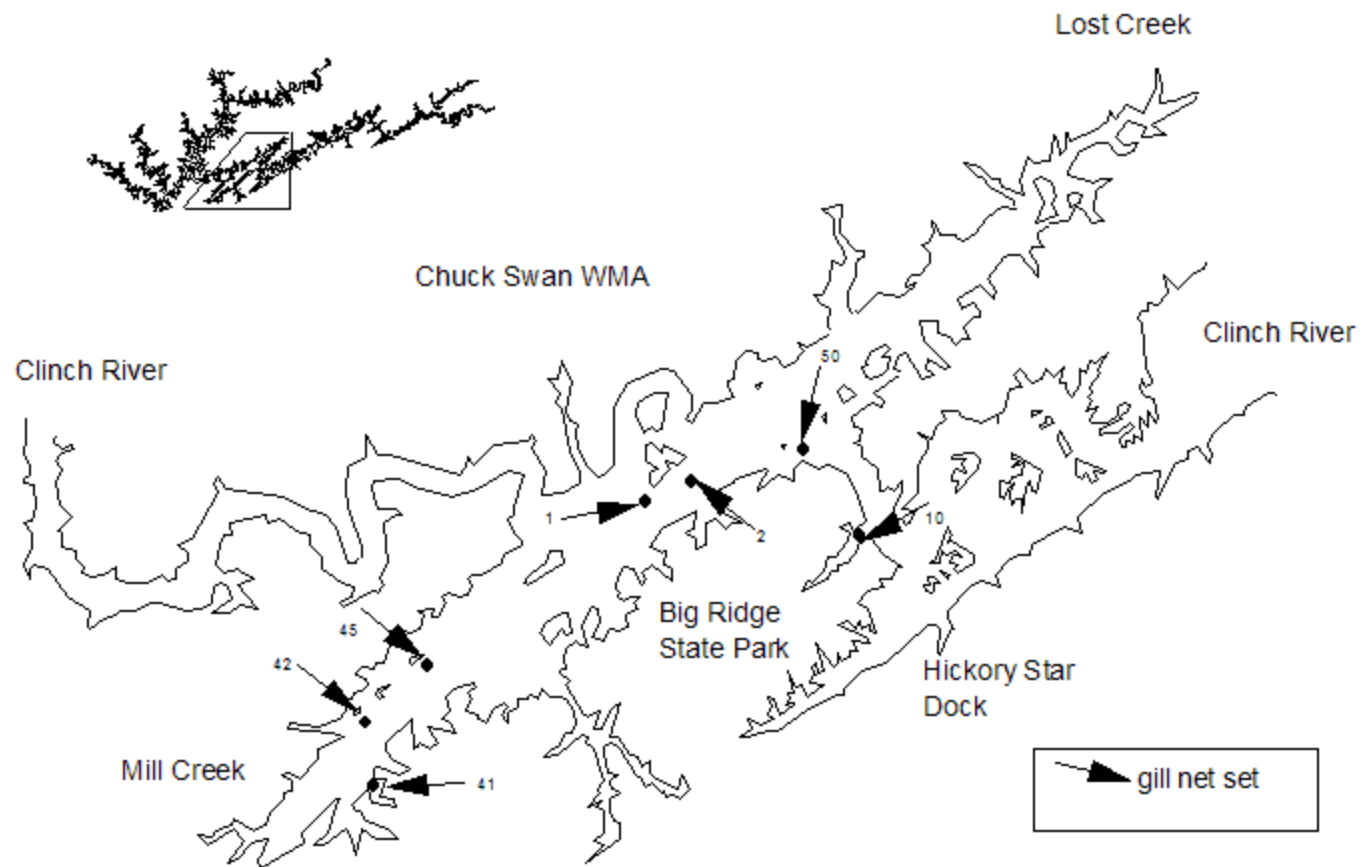


Figure 11. Summer shad gill net sites in the Loyston Sea area of Norris Reservoir in 2007.



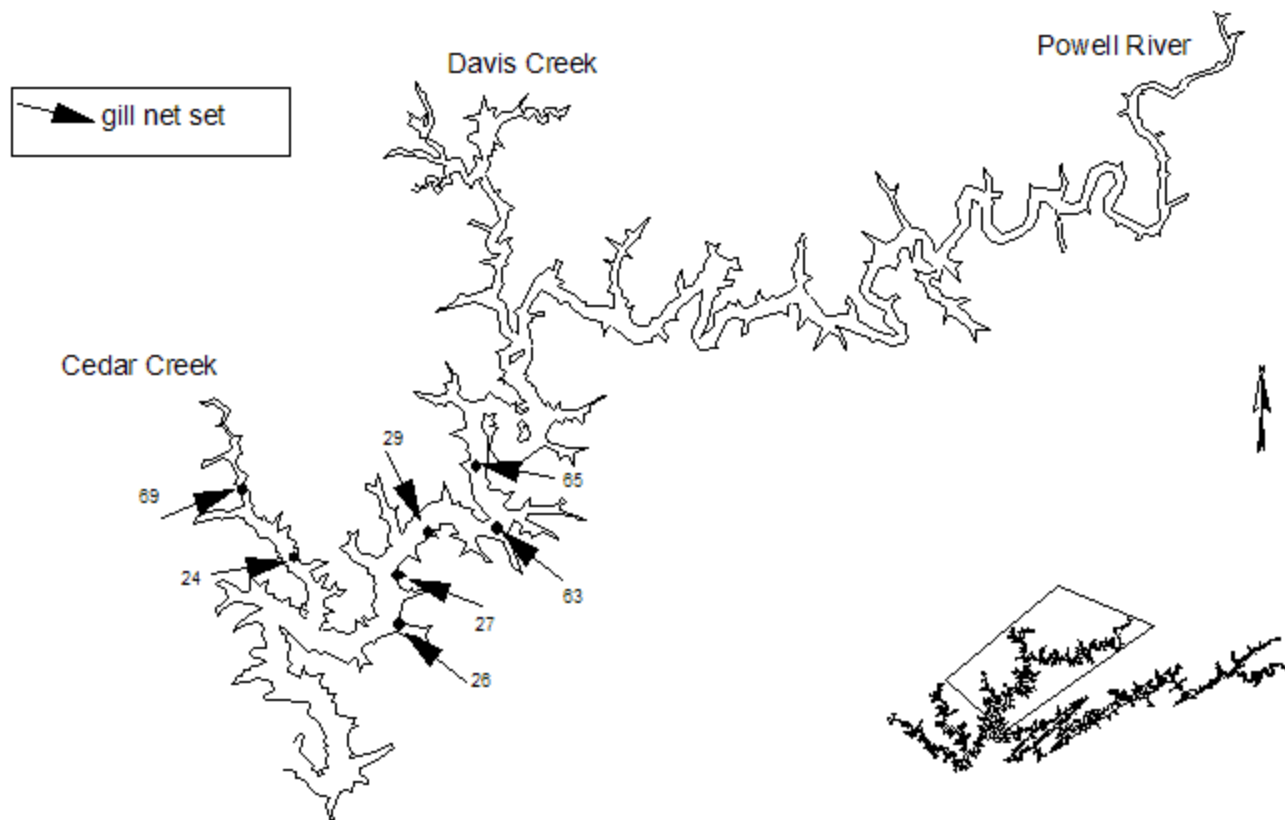


Figure 12. Summer shad gill net sites in the Powell Arm of Norris Reservoir in 2007.



Figure 13. Trap net sites in the Loyston Sea area of Norris Reservoir in 2007.

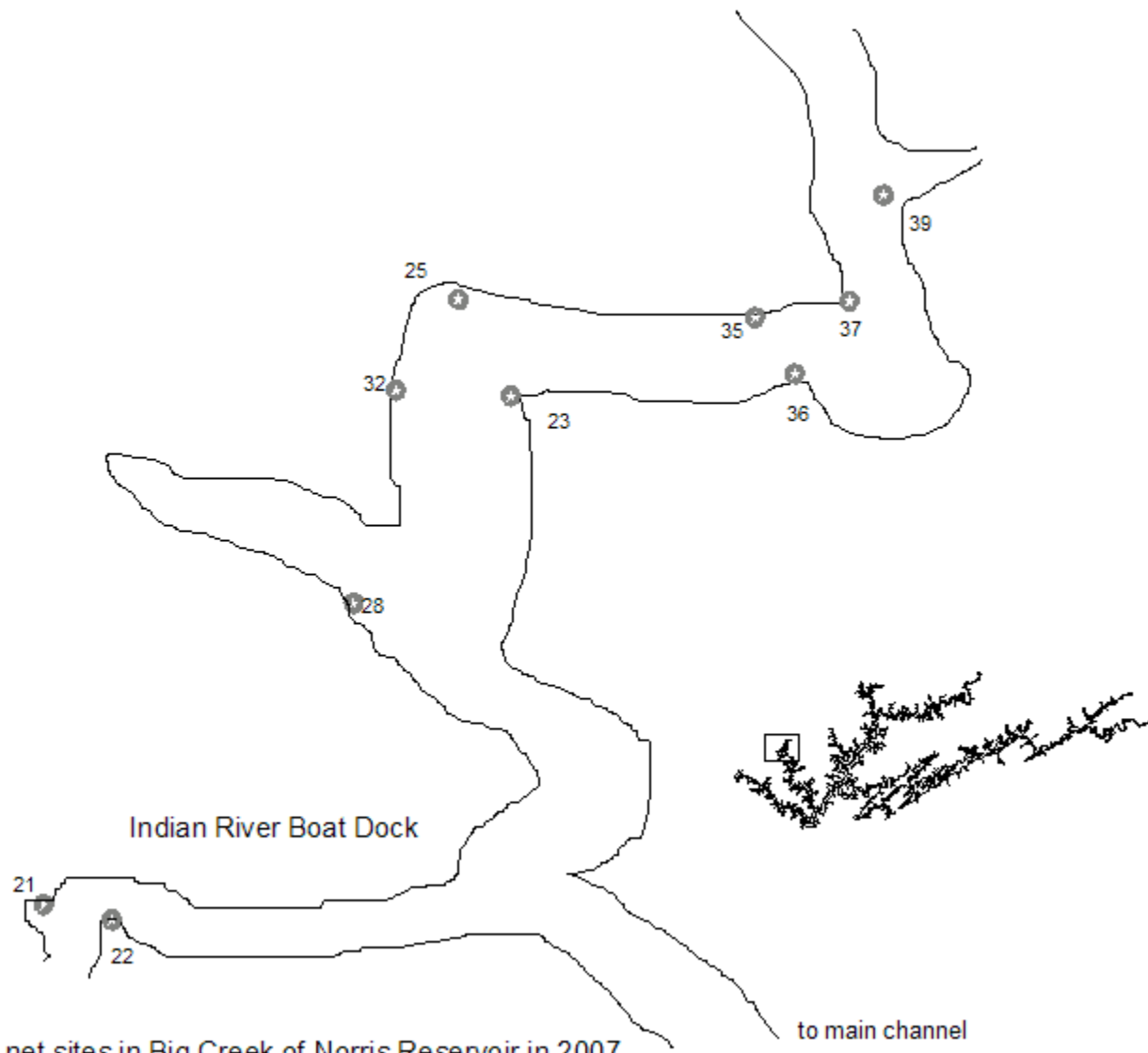


Figure 14. Trap net sites in Big Creek of Norris Reservoir in 2007

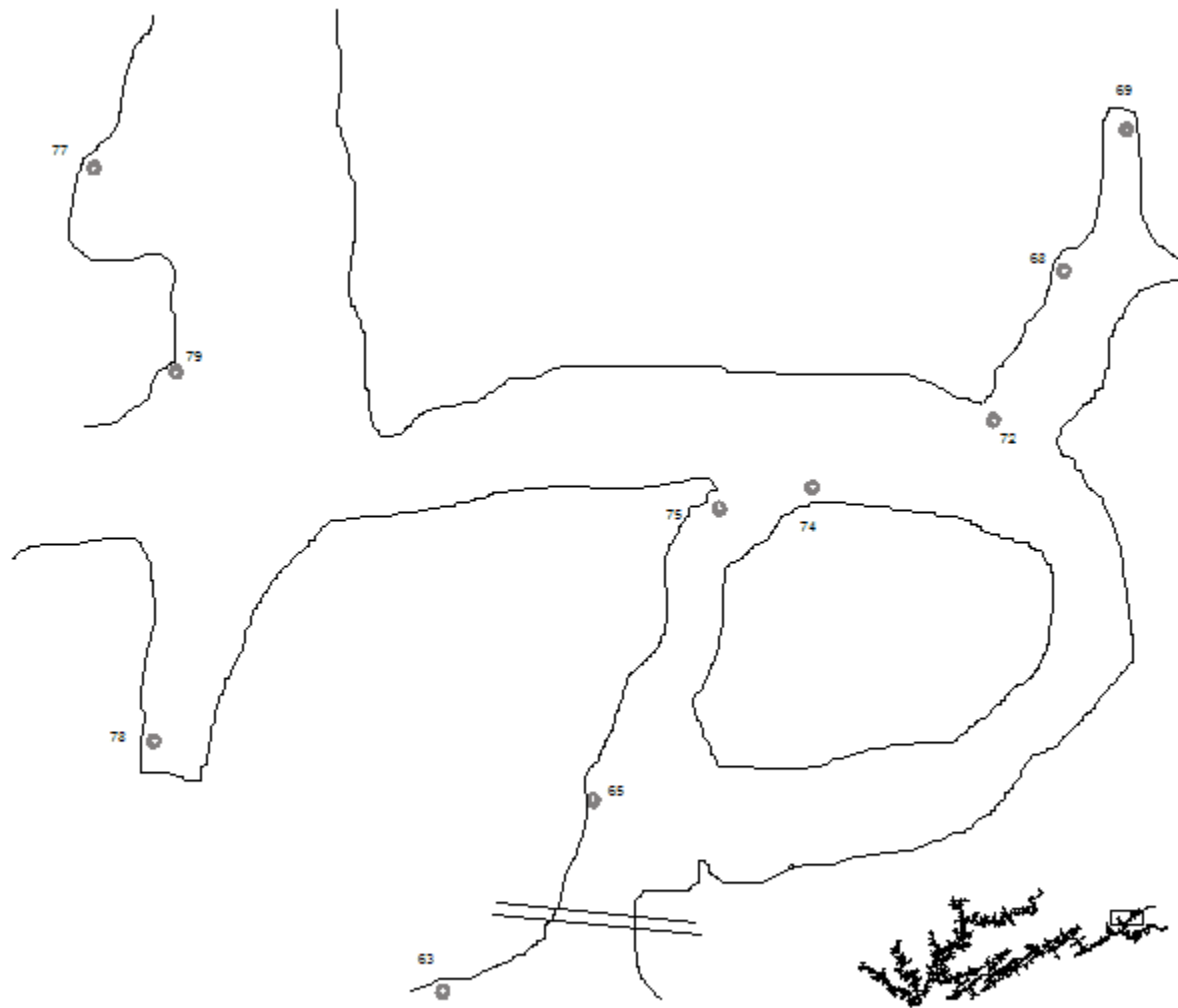


Figure 15. Trap net sites in the Big Sycamore Creek area of Norris Reservoir in 2007.

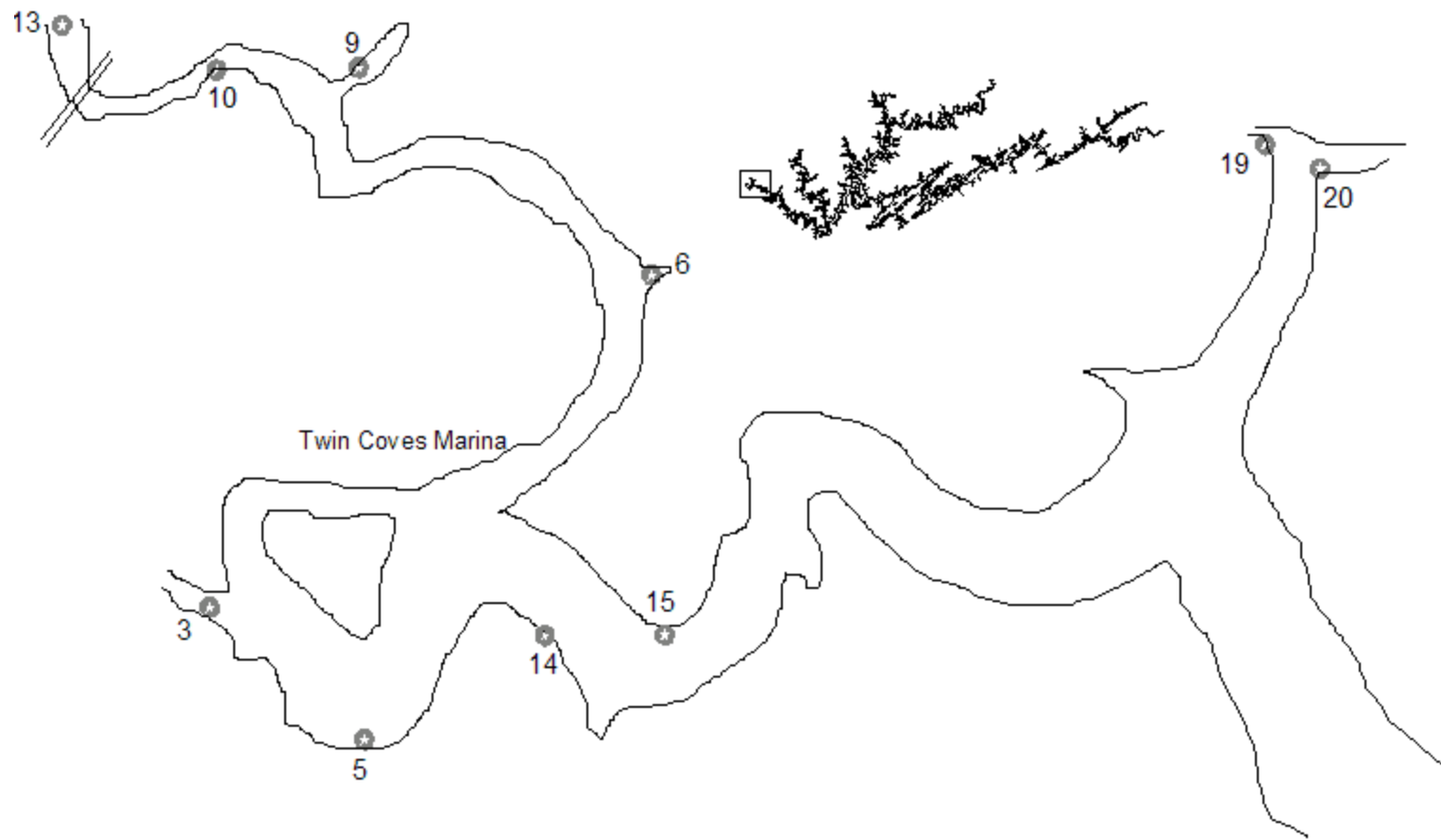


Figure 16. Trap net sites in the Cove Creek area of Norris Reservoir in 2007.

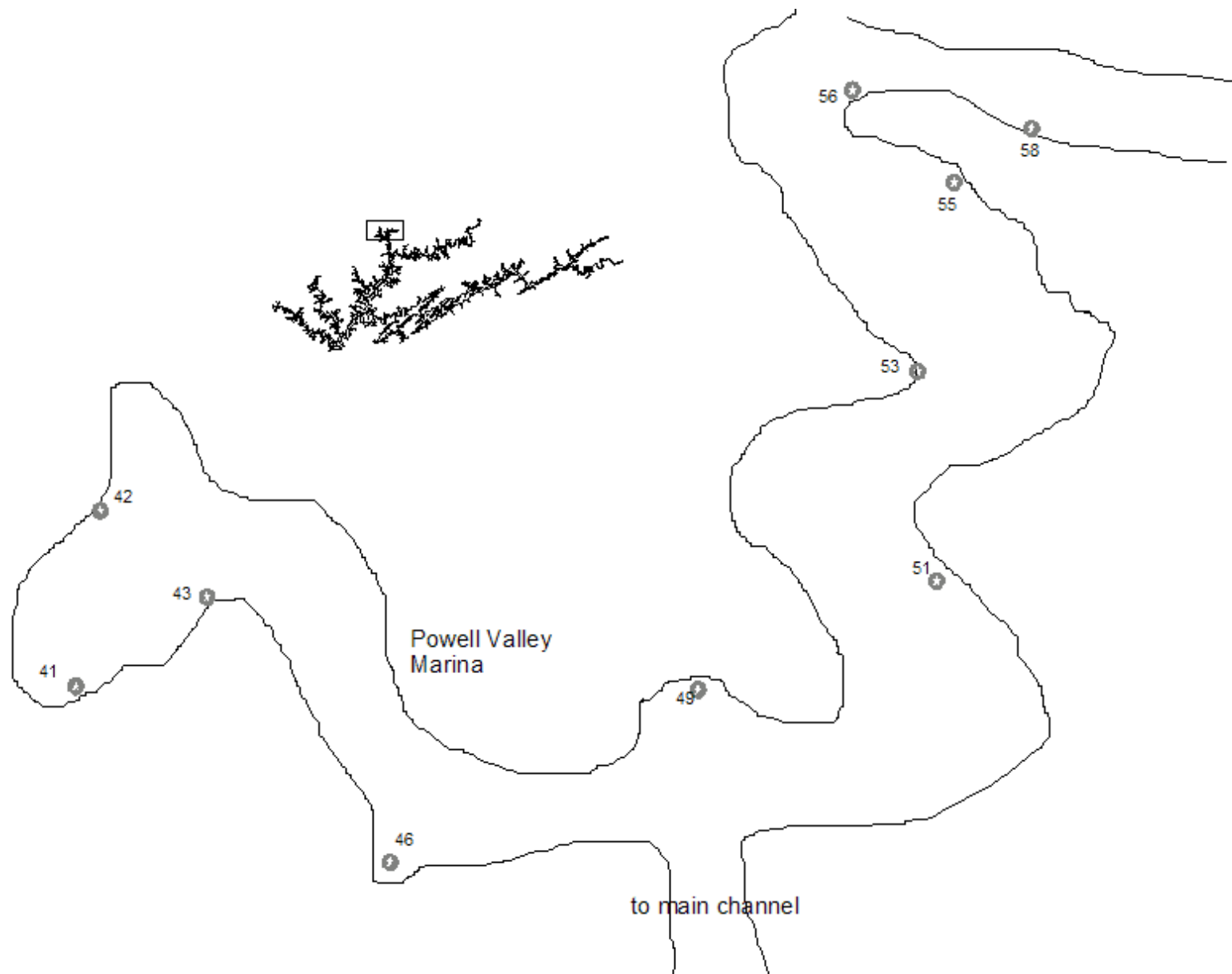


Figure 17. Trap net sites in the Davis Creek area of Norris Reservoir in 2007.

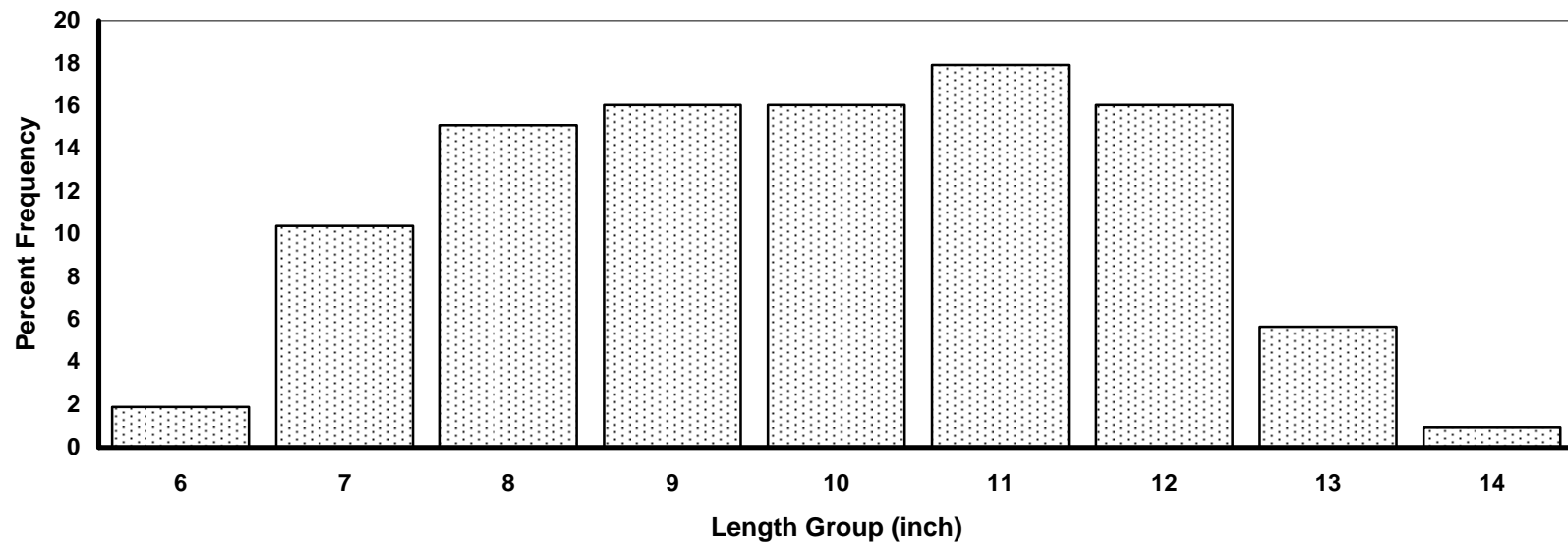


Figure 18. Norris Reservoir black crappie length frequency by percent for the 2007 electrofishing sample (n=106).

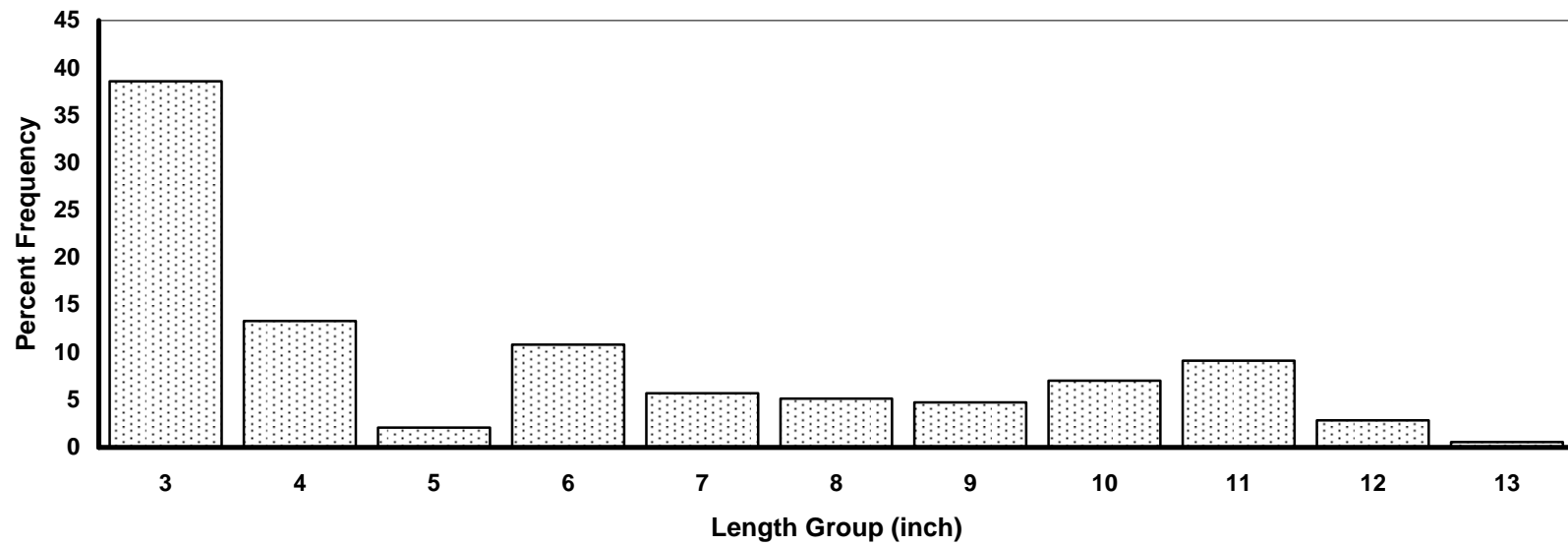


Figure 19. Norris Reservoir black crappie length frequency by percent for the 2007 trap net sample (n=526).



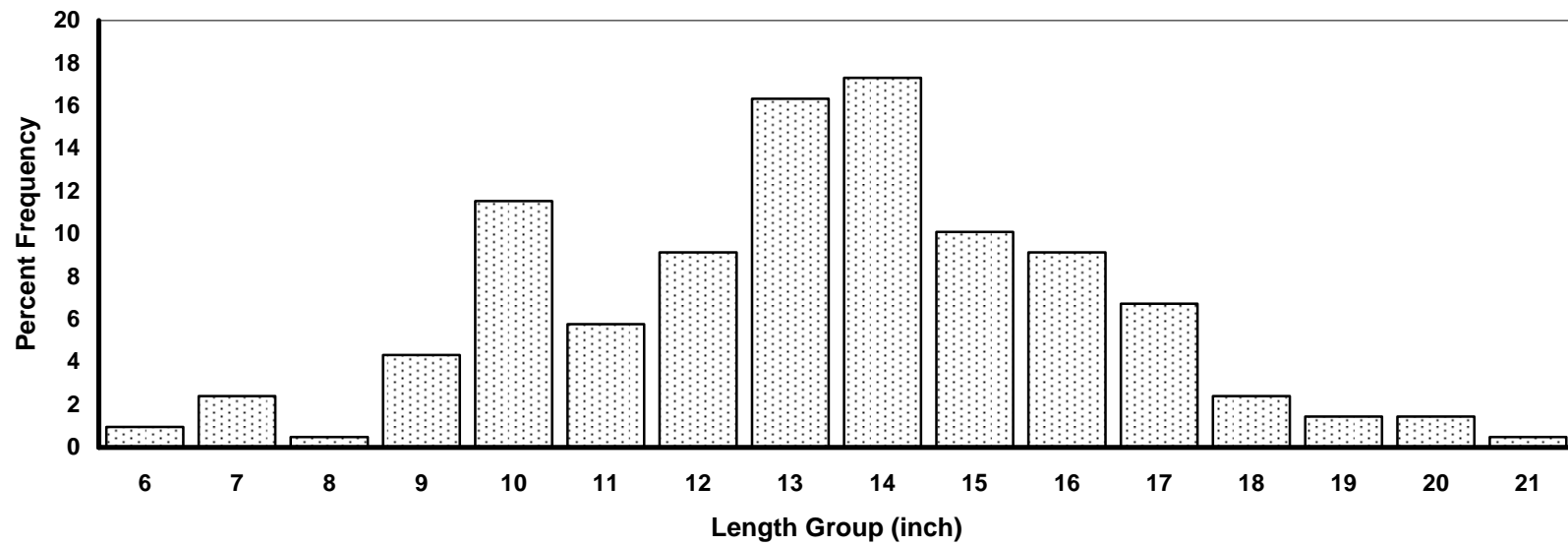


Figure 20. Norris Reservoir largemouth bass length frequency by percent for the 2007 electrofishing sample (n=208).

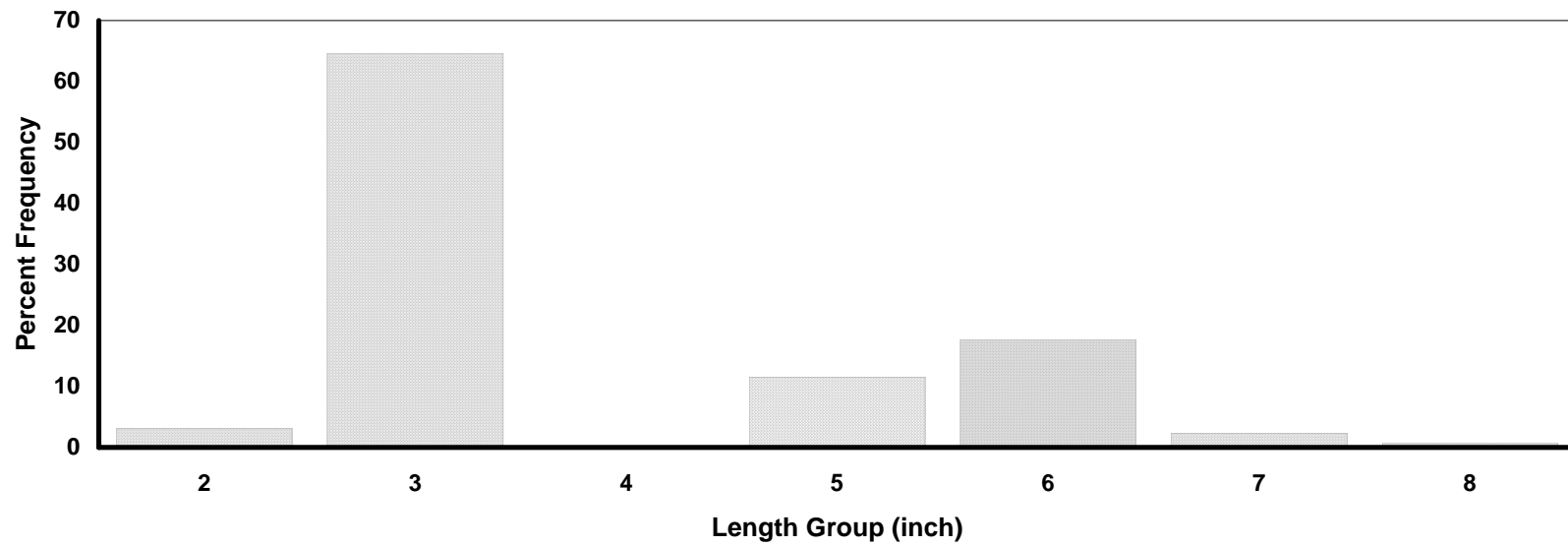


Figure 21. Norris Reservoir alewife length frequency by percent for 2007 shad gill netting sample (n=130).

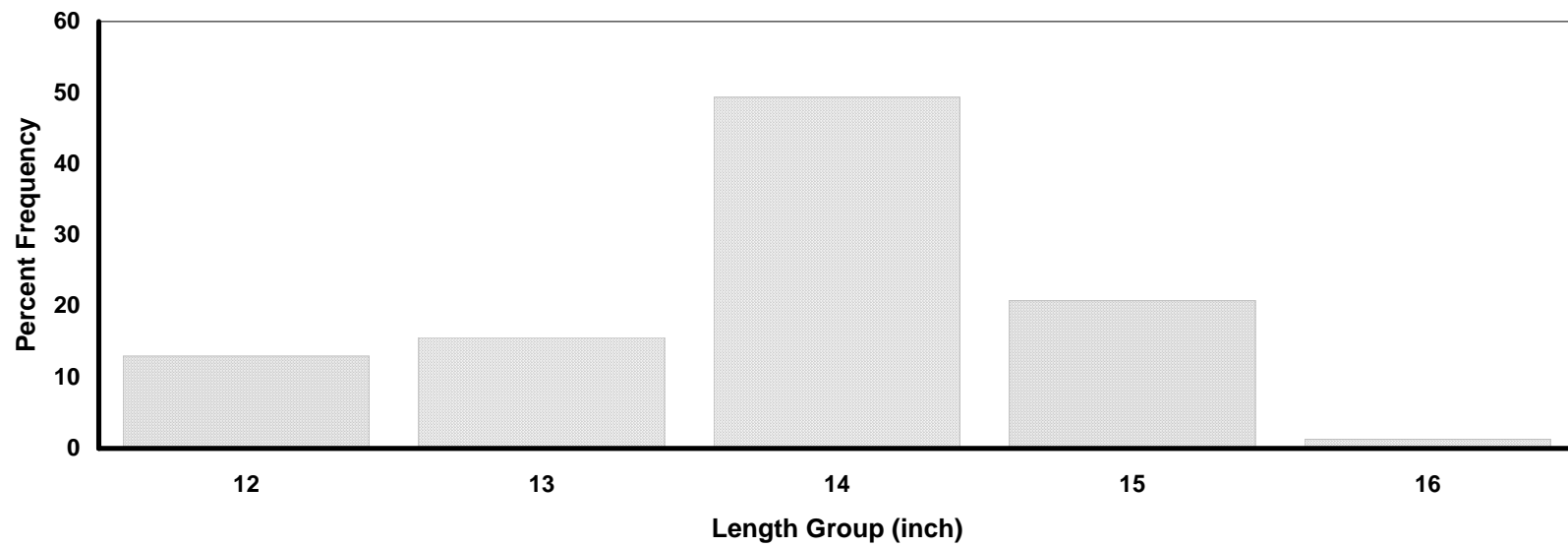


Figure 22. Norris Reservoir gizzard shad length frequency by percent for 2007 shad gill netting sample (n=77).

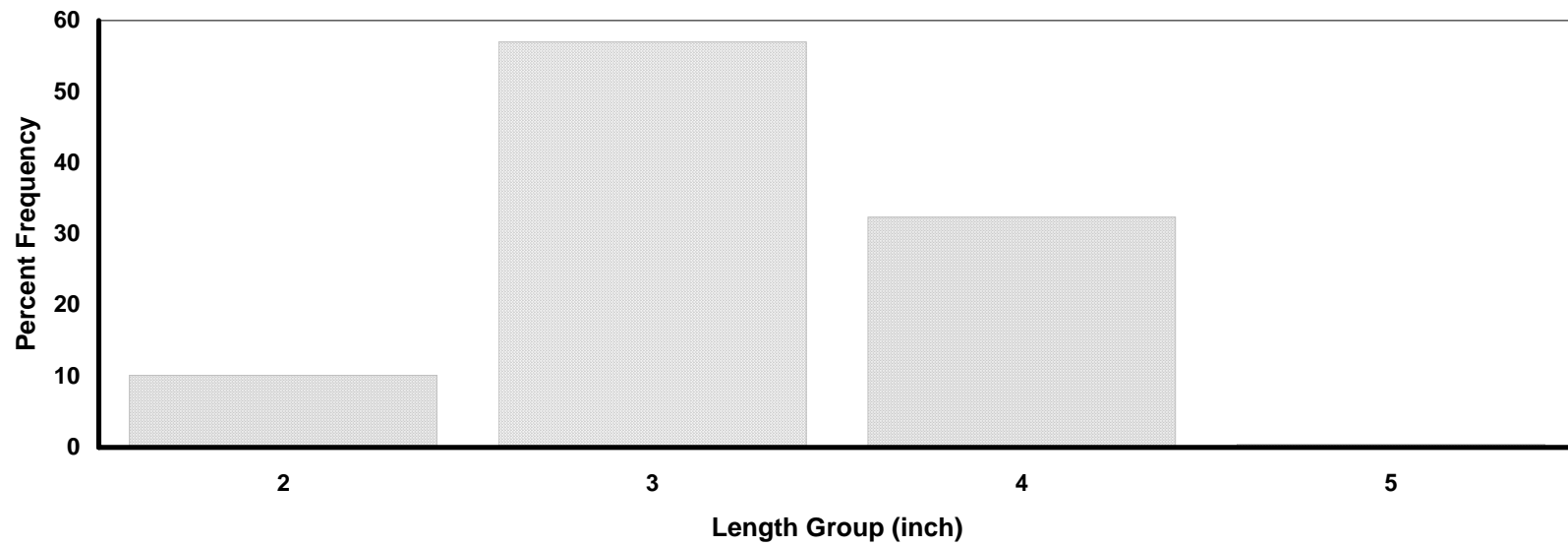


Figure 23. Norris Reservoir threadfin shad length frequency by percent for 2007 shad gill netting sample (n=207).

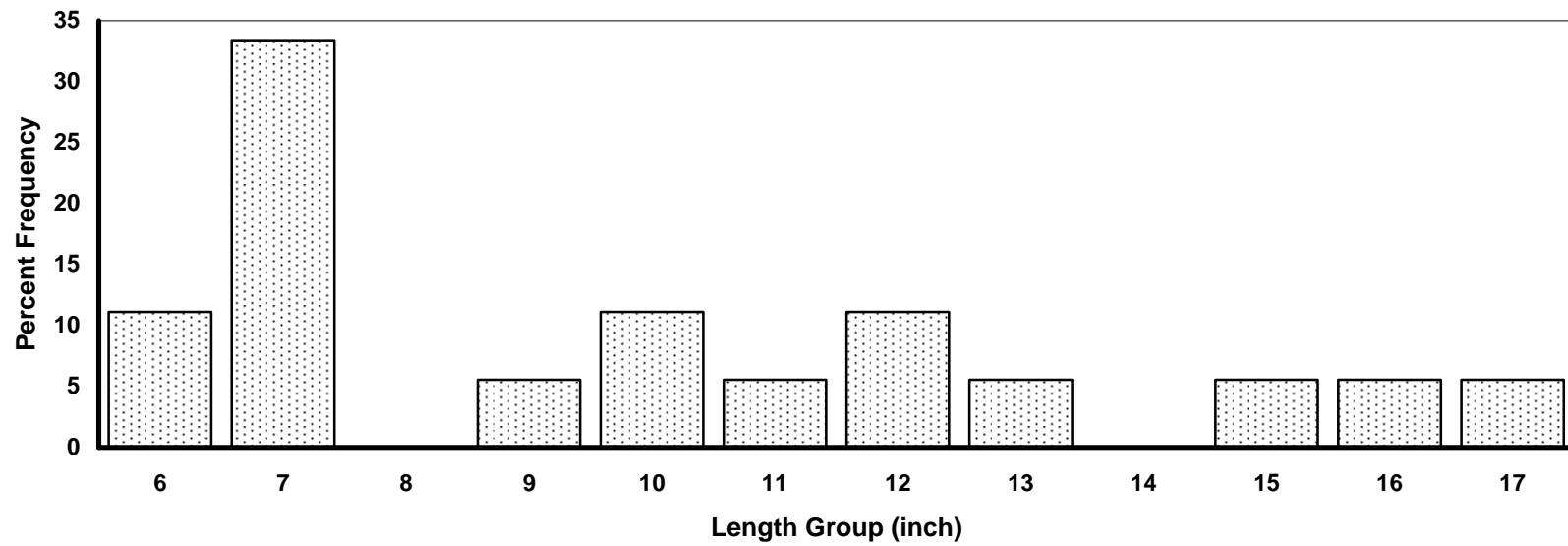


Figure 24. Norris Reservoir smallmouth bass length frequency by percent for the 2007 electrofishing sample (n=18).

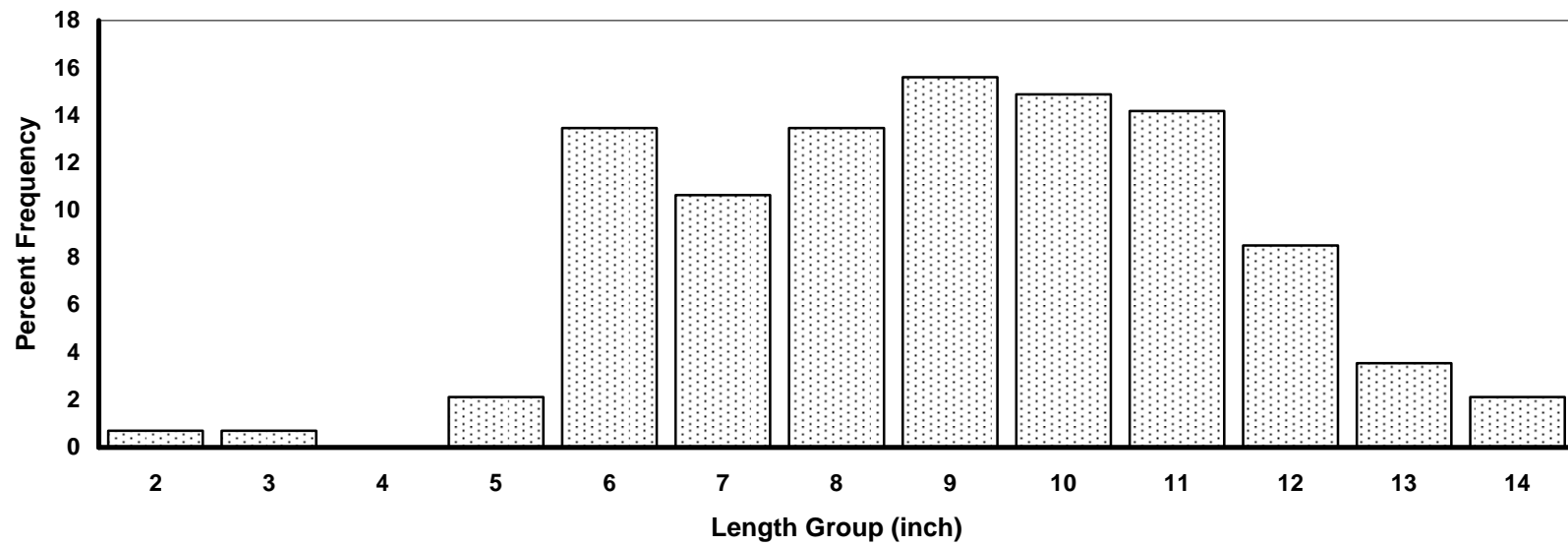


Figure 25. Norris Reservoir spotted bass length frequency by percent for the 2007 electrofishing sample (n=141).

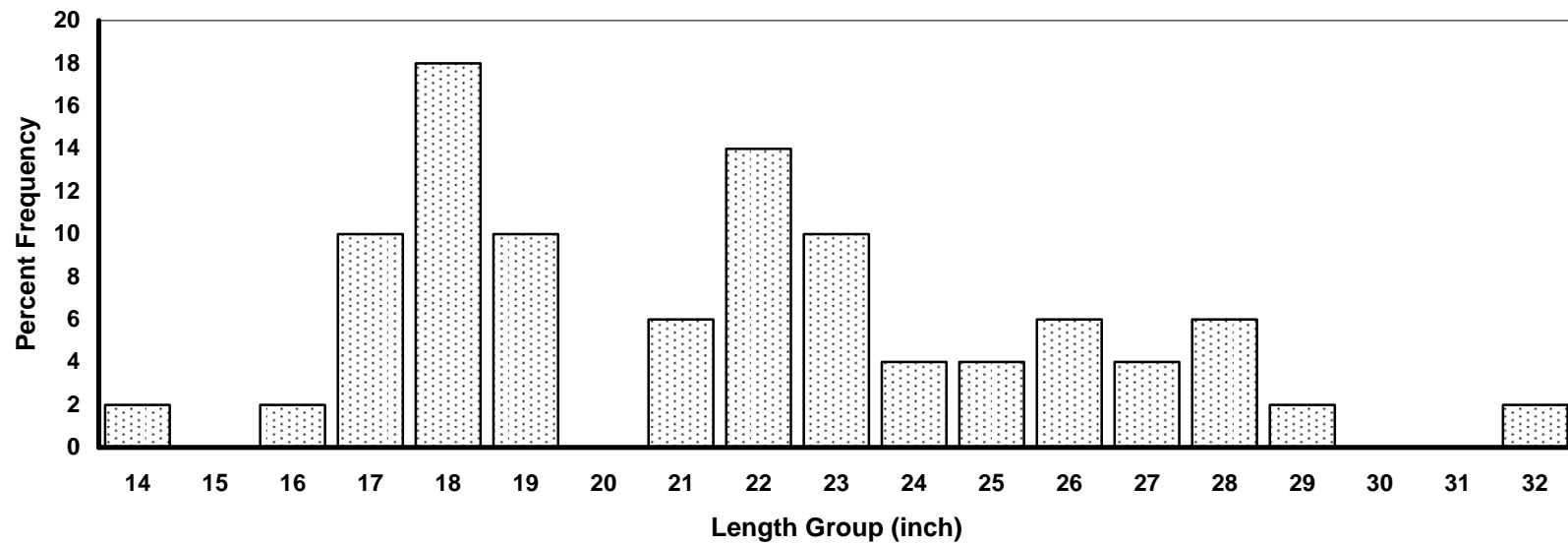


Figure 26. Norris Reservoir striped bass length frequency by percent for the 2007 gill net sample (n=50).

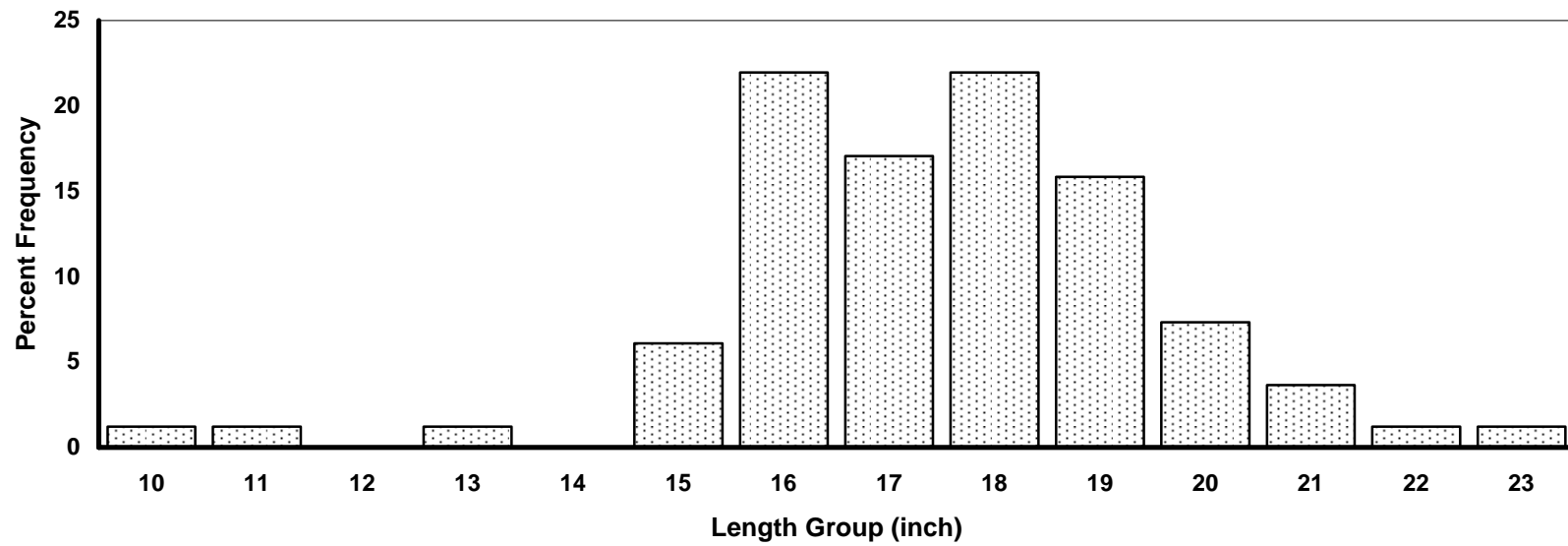


Figure 27. Norris Reservoir walleye length frequency by percent for the 2007 gill net sample (n=82).



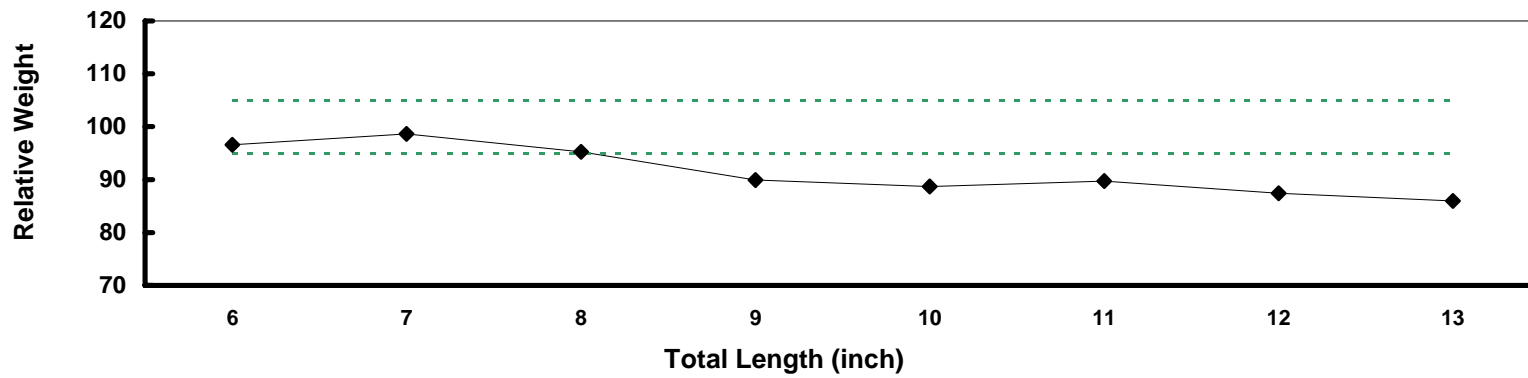


Figure 28. Norris Reservoir black crappie mean relative weight values from the 2007 electrofishing sample (n=105).

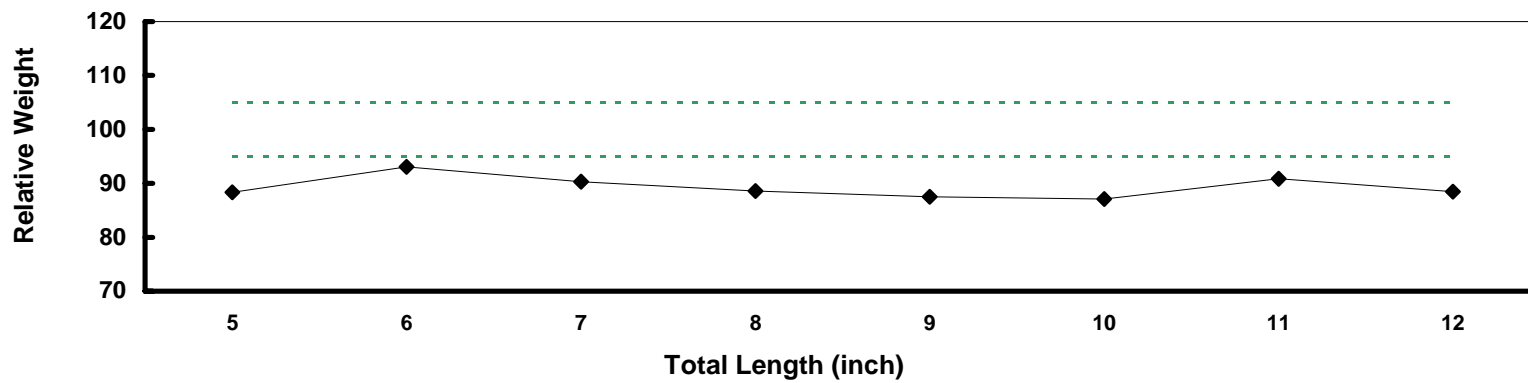


Figure 29. Norris Reservoir black crappie mean relative weight values from the 2007 trap net sample (n=233).

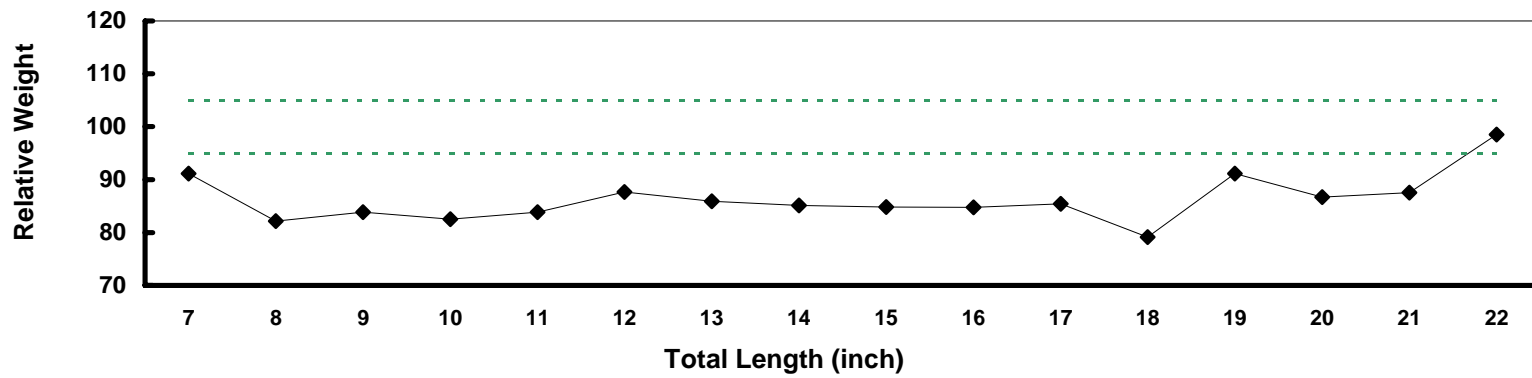


Figure 30. Norris Reservoir largemouth bass mean relative weight values from the 2007 electrofishing sample (n=201).

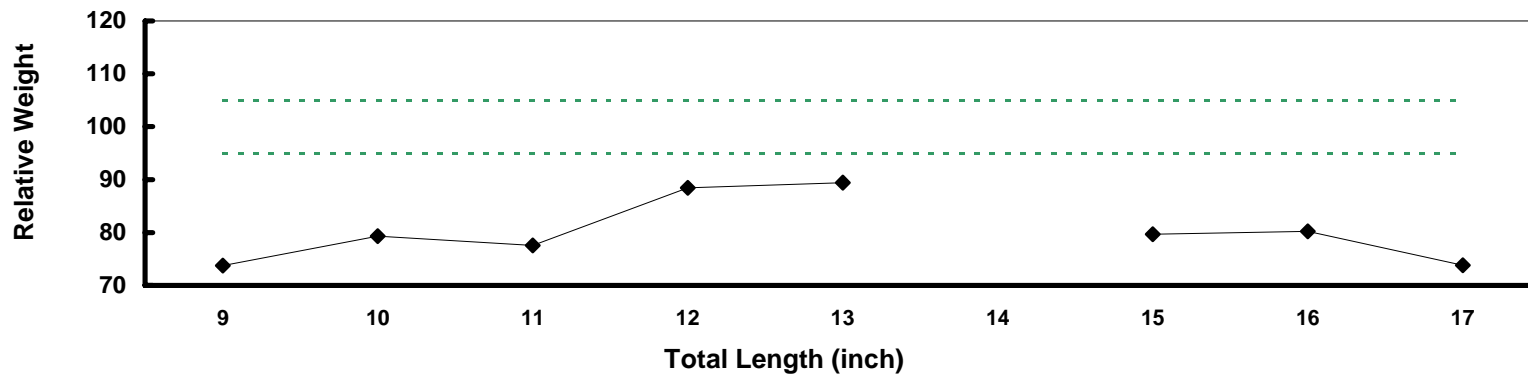


Figure 31. Norris Reservoir smallmouth bass mean relative weight values from the 2007 electrofishing sample (n=10).

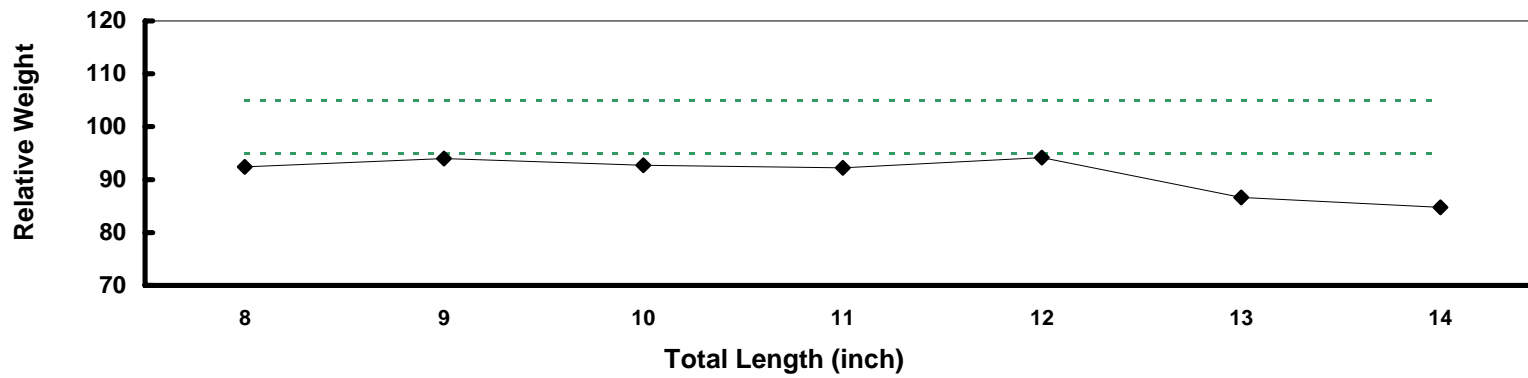


Figure 32. Norris Reservoir spotted bass mean relative weight values from the 2007 electrofishing sample (n=100).

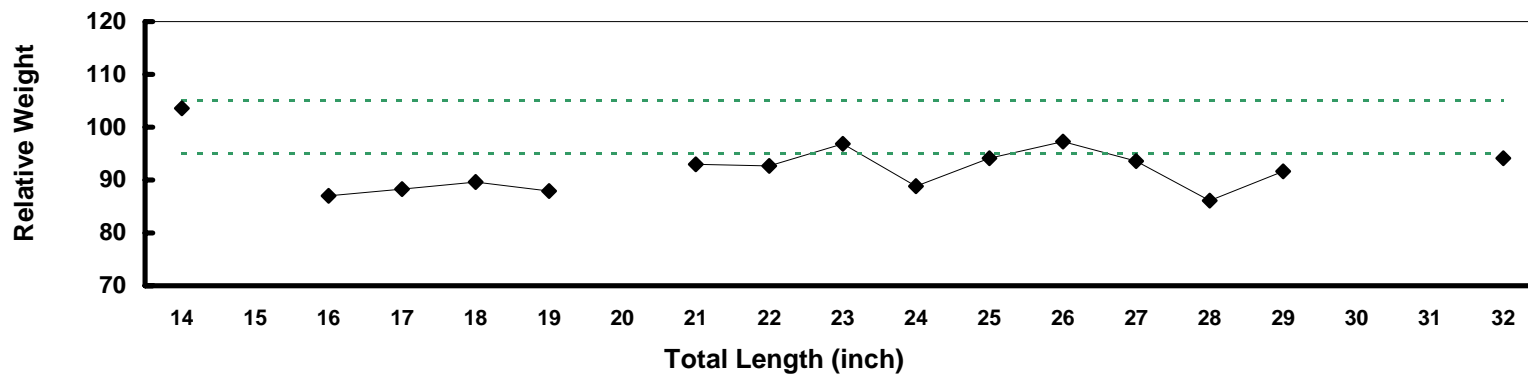


Figure 33. Norris Reservoir striped bass mean relative weight values from the 2007 winter gill net sample (n=50).

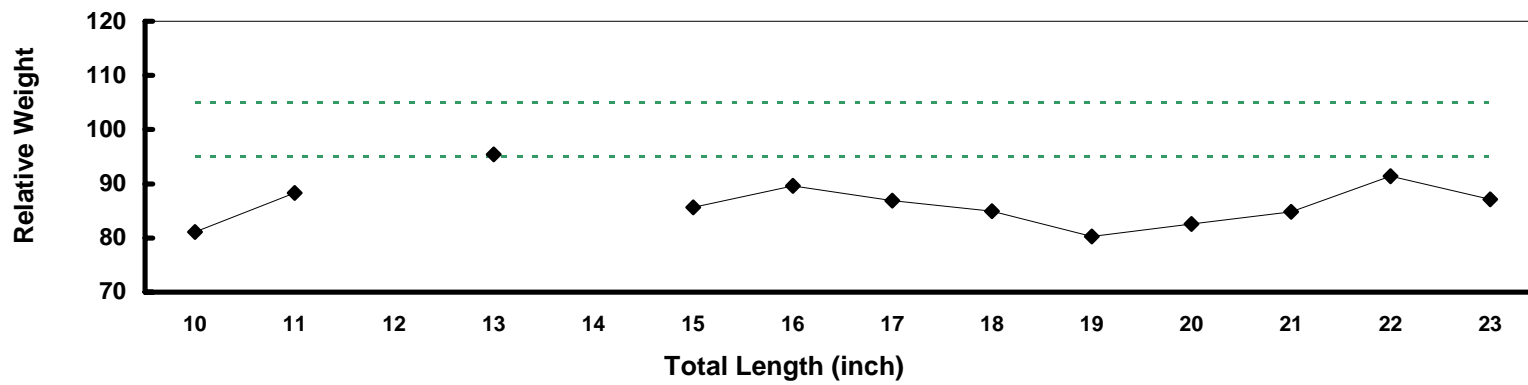


Figure 34. Norris Reservoir walleye mean relative weight values from the 2007 winter gill net sample (n=82).

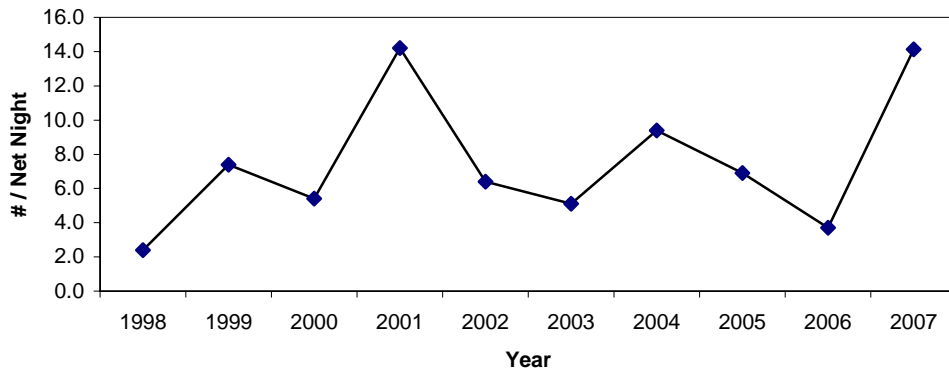


Figure 35. Norris Reservoir black crappie electrofishing catch rates from 1998 to 2007.

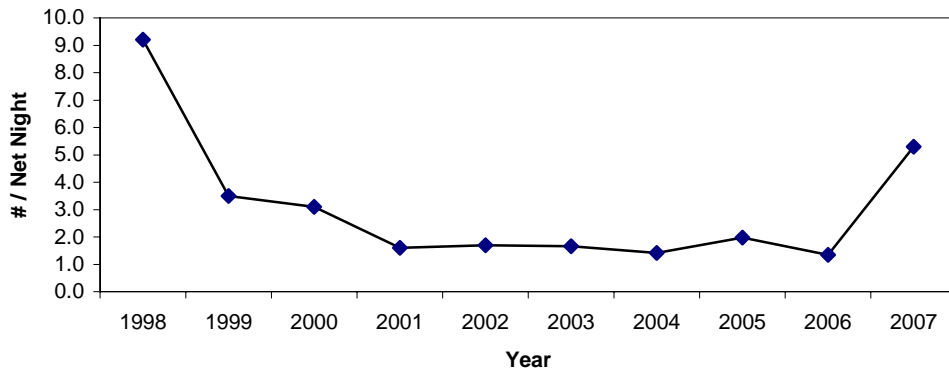


Figure 36. Norris Reservoir black crappie trap netting catch rates from 1998 to 2007.



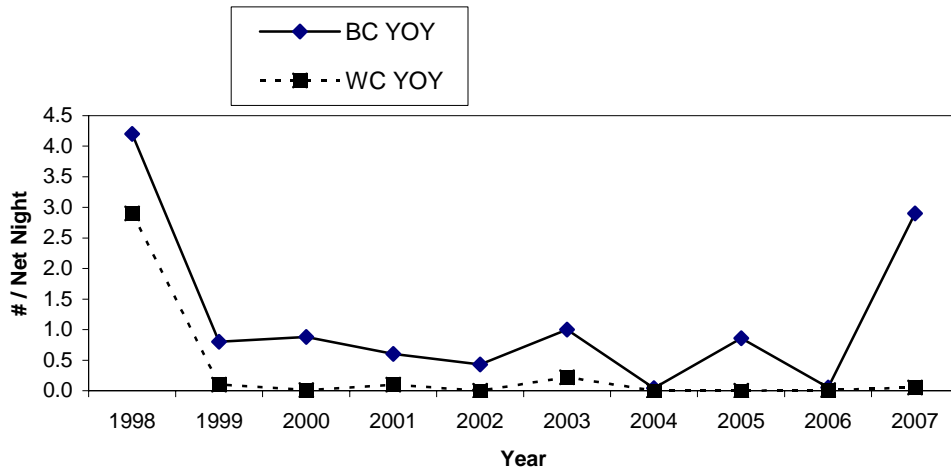


Figure 37. Norris Reservoir YOY crappie trap netting catch rates from 1998 to 2007.

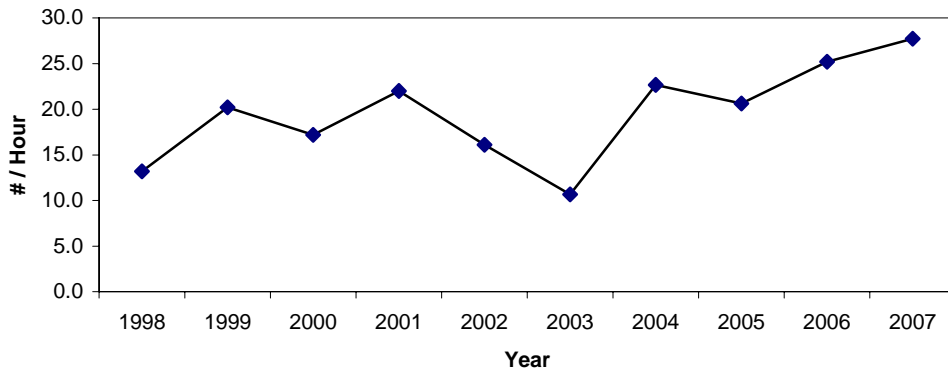


Figure 38. Norris Reservoir largemouth bass electrofishing catch rates from 1998 to 2007.

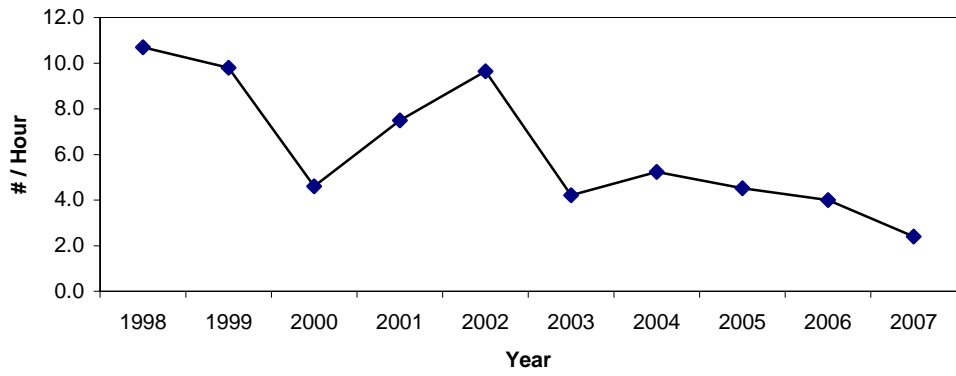


Figure 39. Norris Reservoir smallmouth bass electrofishing catch rates from 1998 to 2007.

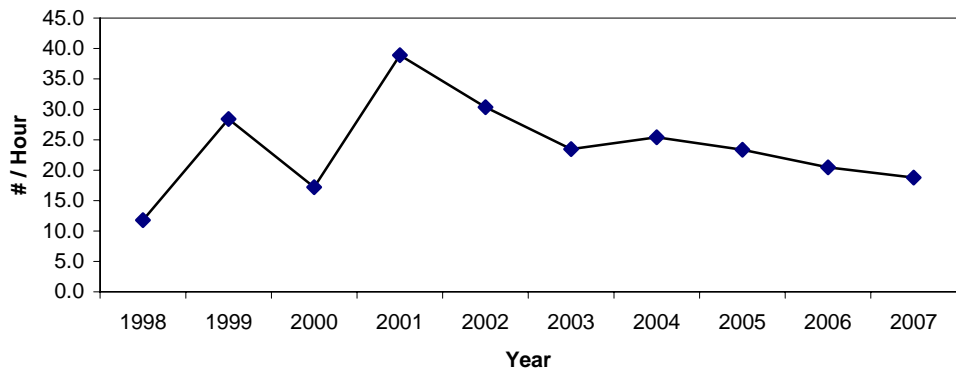


Figure 40. Norris Reservoir spotted bass electrofishing catch rates from 1998 to 2007.

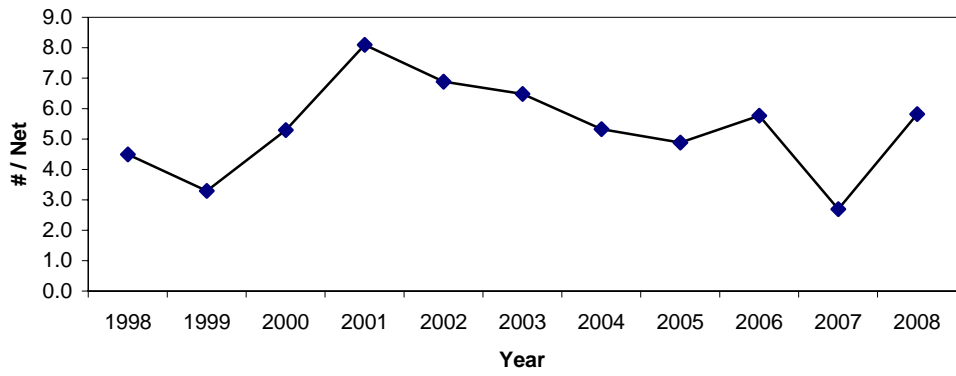


Figure 41. Norris Reservoir walleye gill net catch rates from 1998 to 2008.

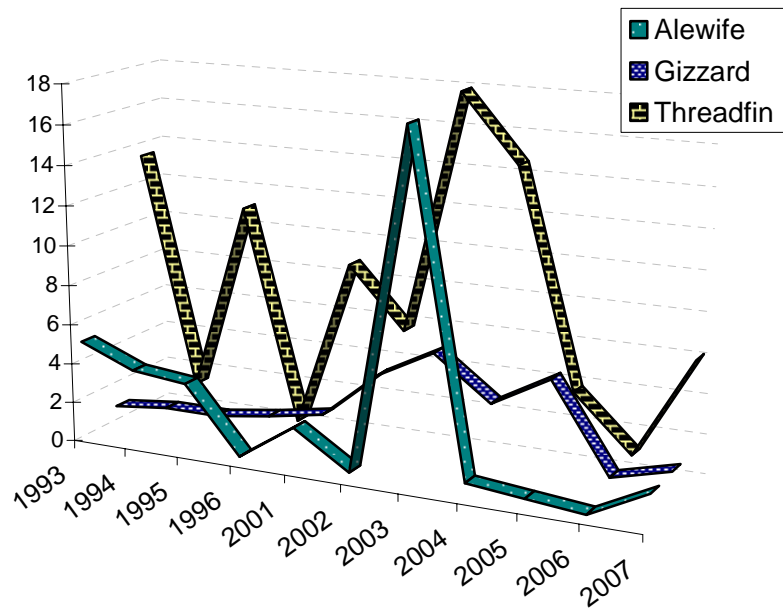


Figure 42. Geometric means for catch of shad in Norris Reservoir by summer gill netting from 1993 to 2007.

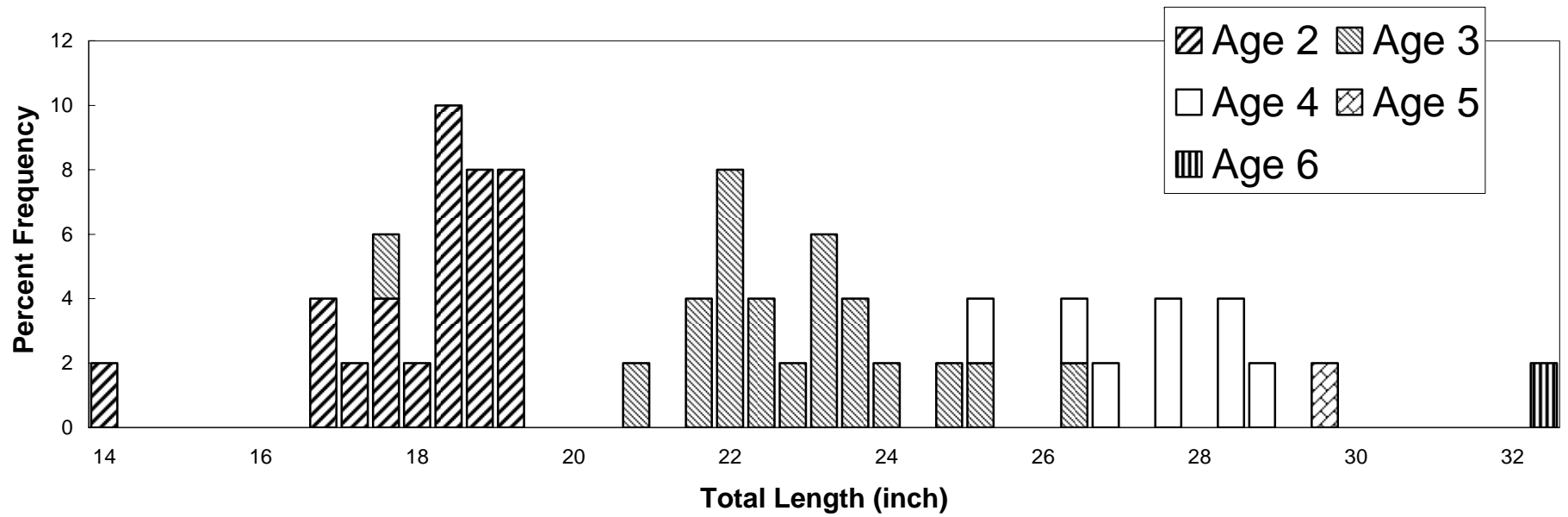


Figure 43. Length frequency at age of Norris Reservoir striped bass from the 2007 gill net sample. (n = 50) (CPUE = 1.2/net night)

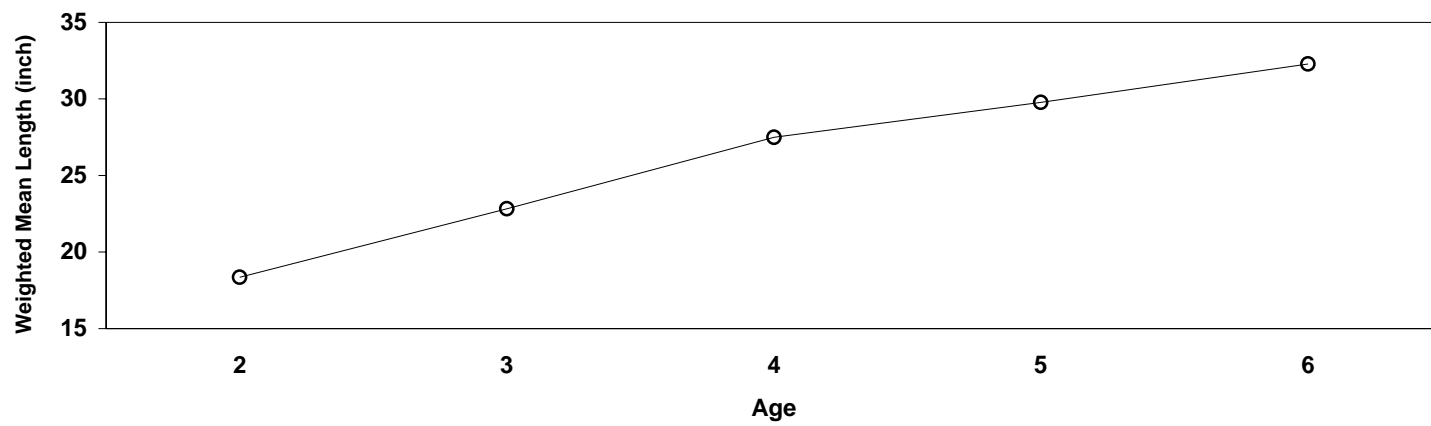


Figure 44. Weighted mean length at age of striped bass from the 2007 Norris winter gill net sample.

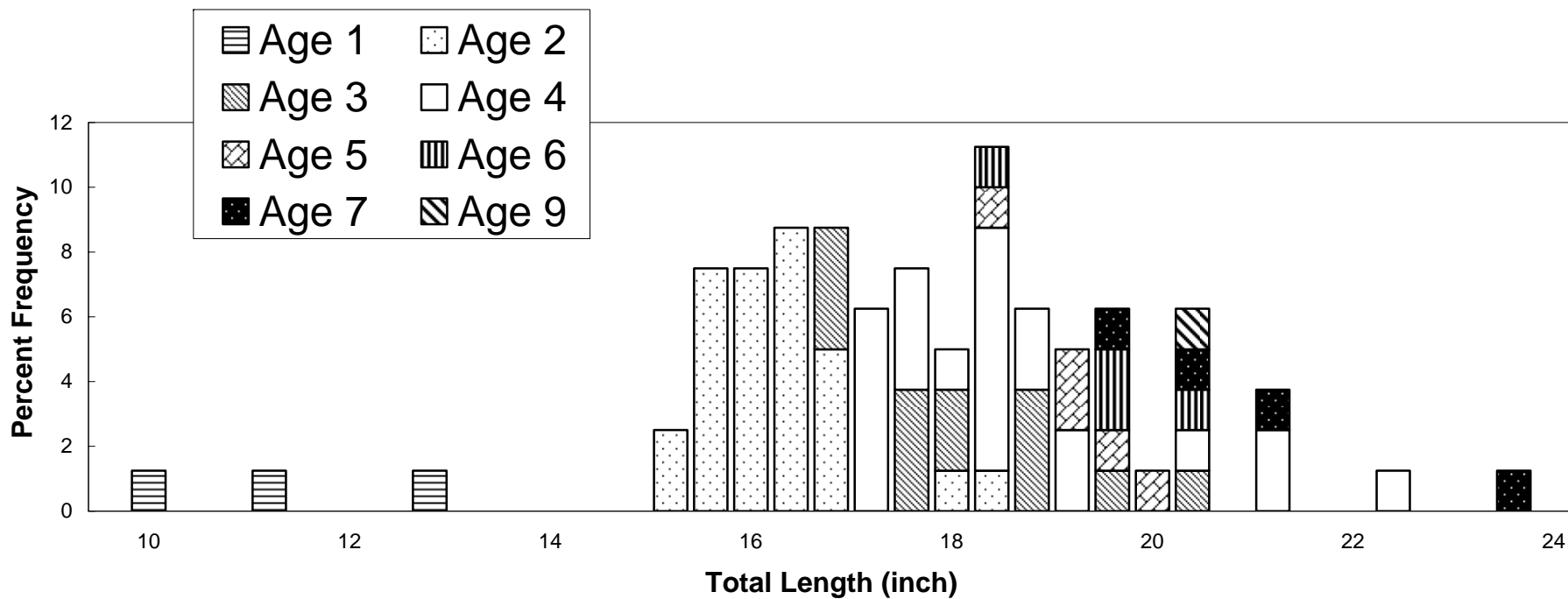


Figure 45. Length frequency at age of Norris Reservoir walleye from the 2007 gill net sample.  
(n = 79) (CPUE = 2.8/net night)

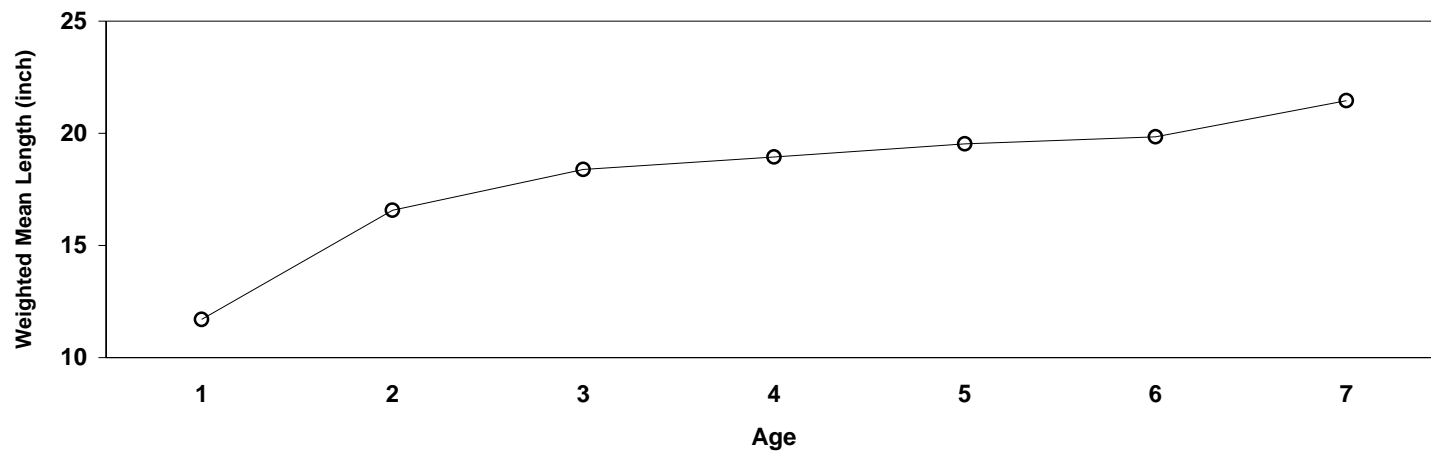


Figure 46. Weighted mean length at age of walleye from Norris 2007 winter gill net sample.

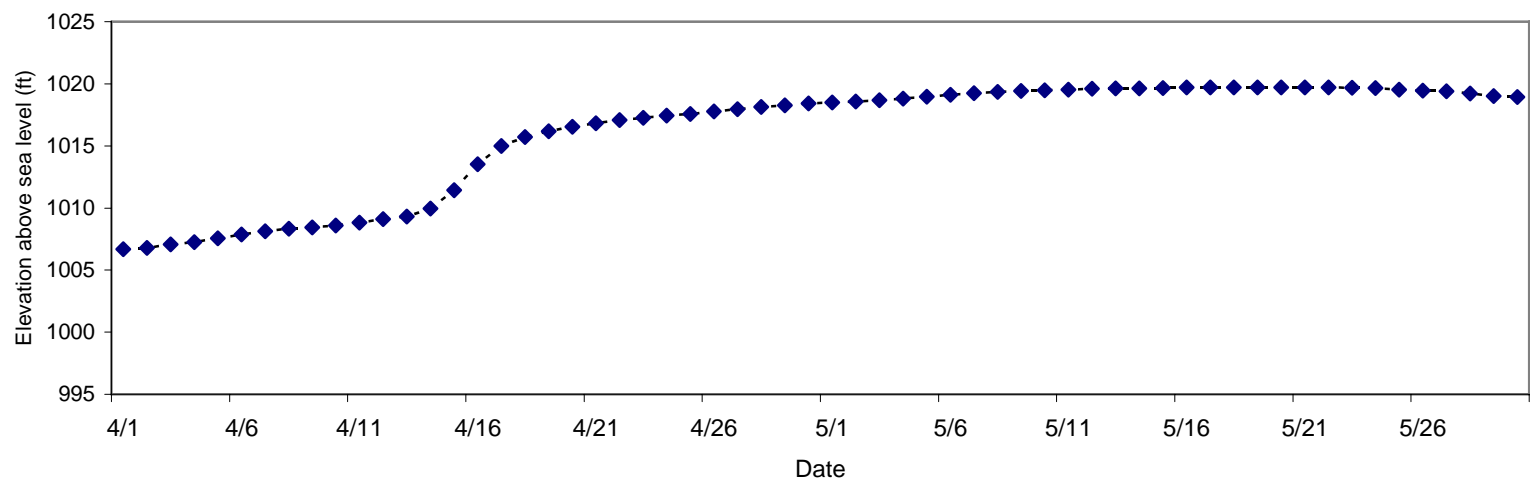


Figure 47. April and May water levels in Norris Reservoir in 2007 (TVA data).



Figure 48. DO - Norris - Dam - July 2, 2007

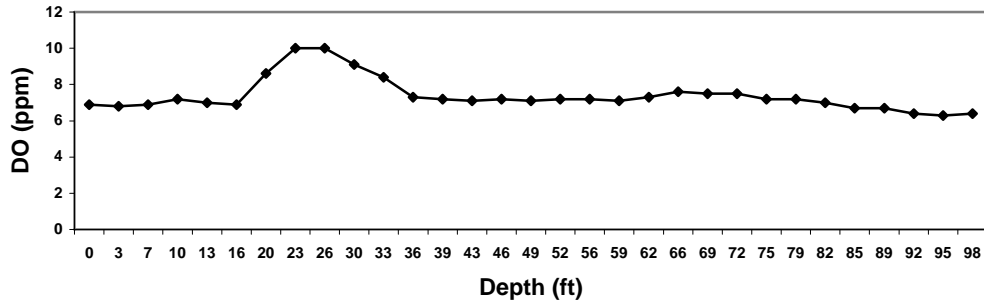


Figure 49. Temp - Norris - Dam - July 2, 2007

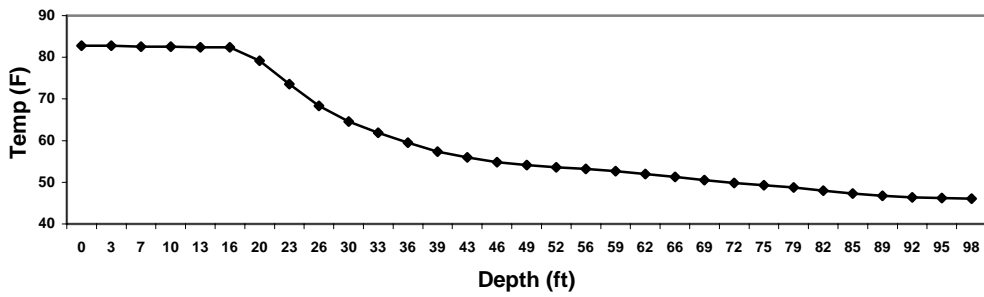


Figure 50. DO - Norris - Clinch RM 88 - July 2, 2007

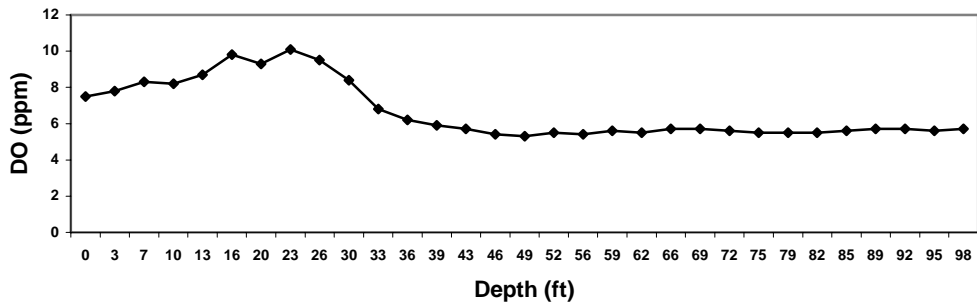


Figure 51. Temp - Norris - Clinch RM 88 - July 2, 2007

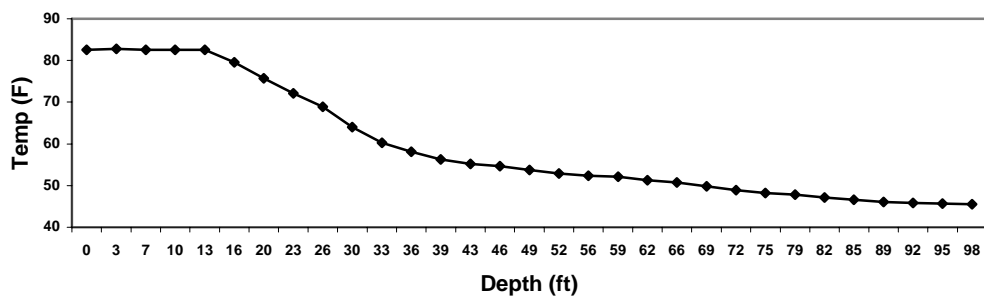


Figure 52. DO - Norris - Clinch RM 120 - July 2, 2007

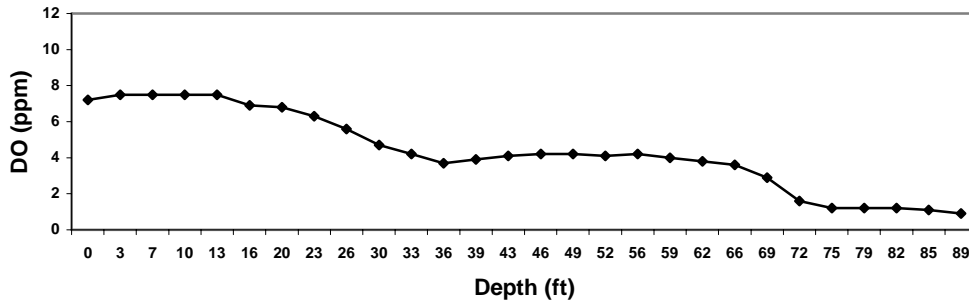


Figure 53. Temp - Norris - Clinch RM 120 - July 2, 2007

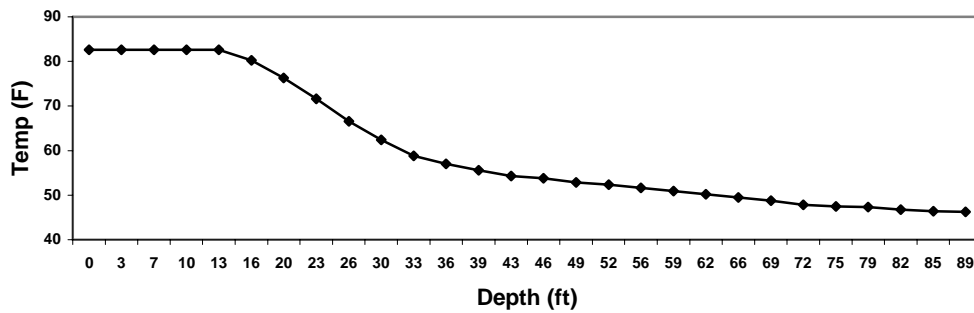


Figure 54. DO - Norris - Powell RM 19 - July 2, 2007

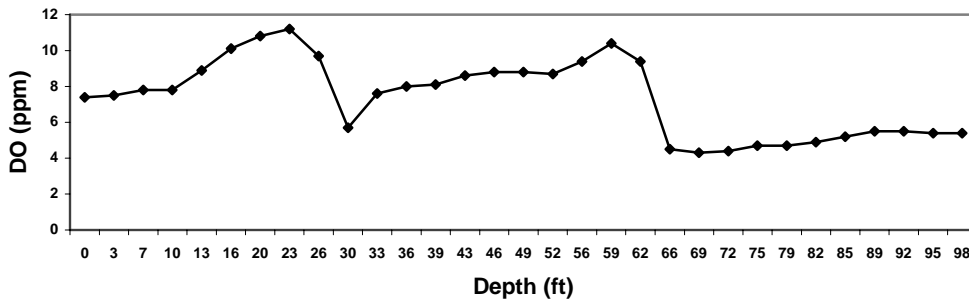


Figure 55. Temp - Norris - Powell RM 19 - July 2, 2007

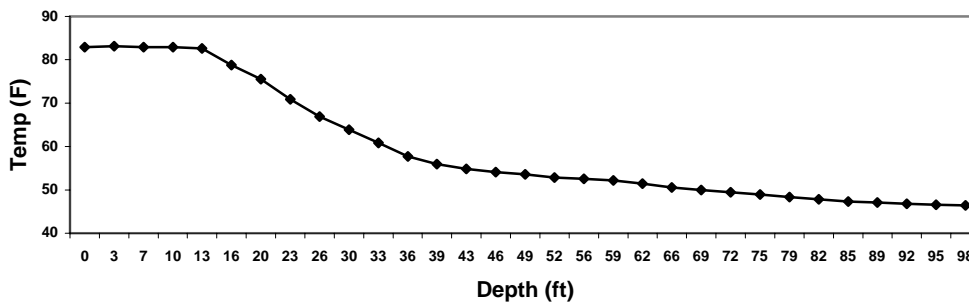


Figure 56. DO - Norris - Dam - August 1, 2007

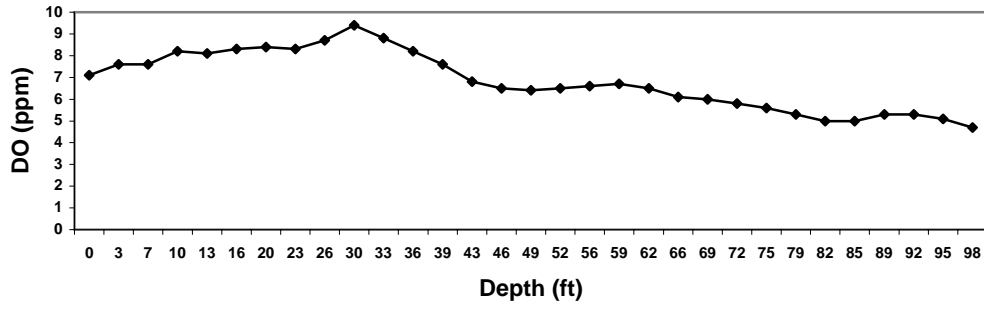


Figure 57. Temp - Norris - Dam - August 1, 2007

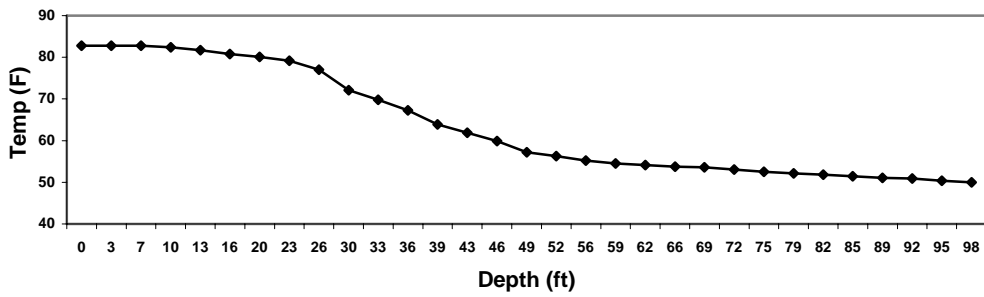


Figure 58. DO - Norris - Clinch RM 88 - August 1, 2007

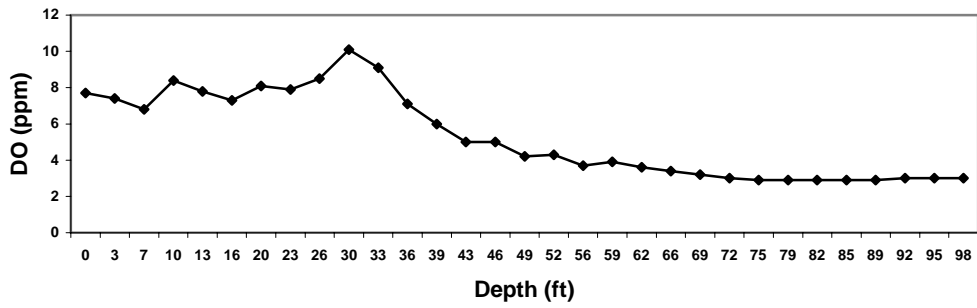


Figure 59. Temp - Norris - Clinch RM 88 - August 1, 2007

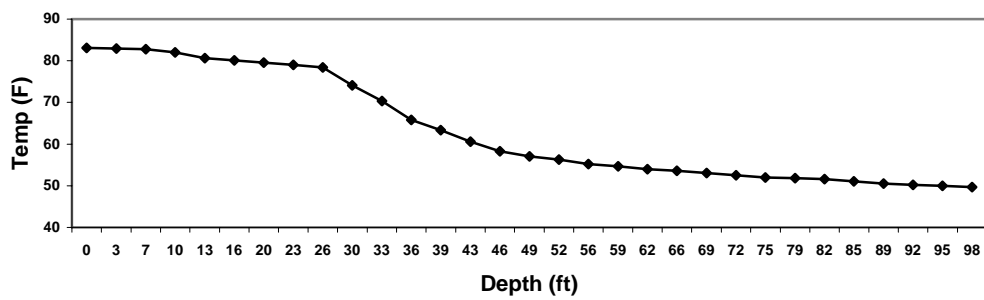


Figure 60. DO - Norris - Clinch RM 120 - August 1, 2007

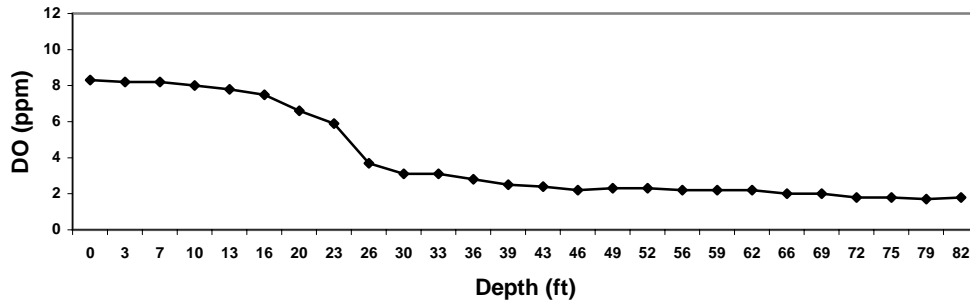


Figure 61. Temp - Norris - Clinch RM 120 - August 1, 2007

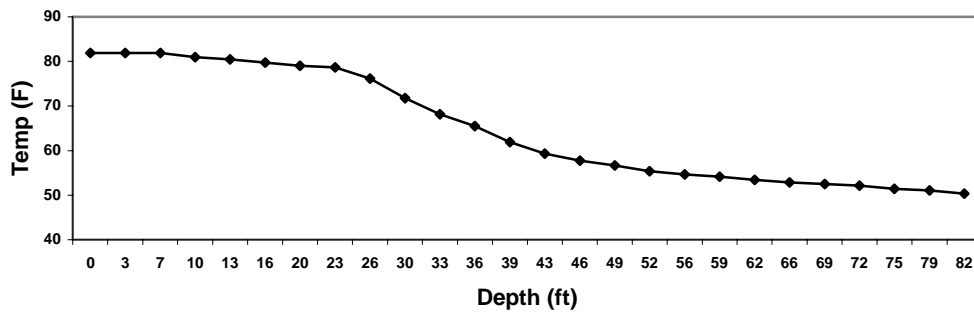


Figure 62. DO - Norris - Powell RM 19 - August 1, 2007

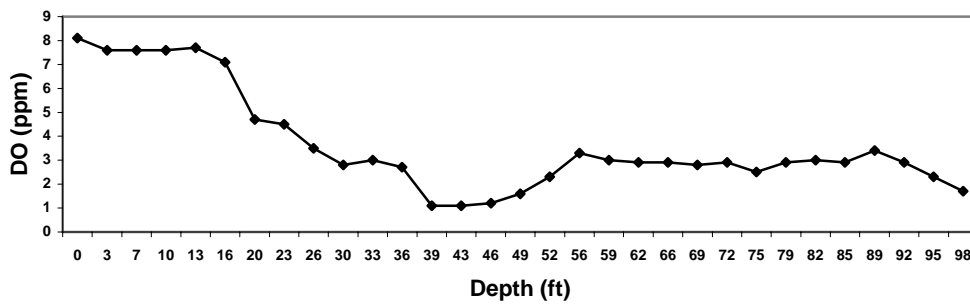


Figure 63. Temp - Norris - Powell RM 19 - August 1, 2007

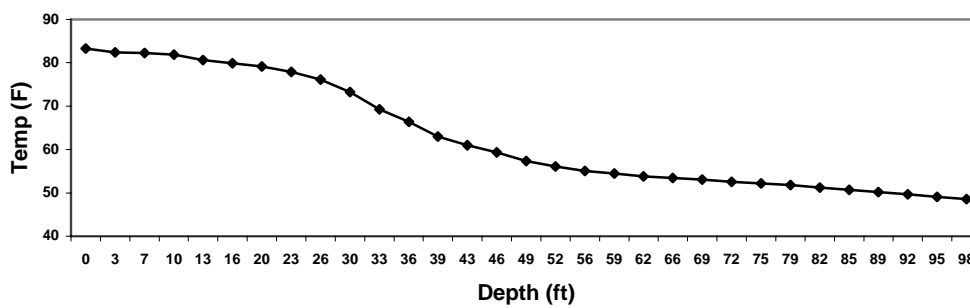


Figure 64. DO - Norris - Dam - September 5, 2007

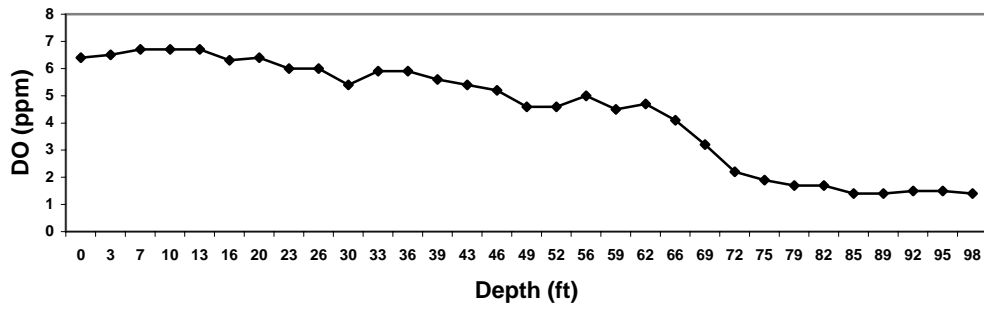


Figure 65. Temp - Norris - Dam - September 5, 2007

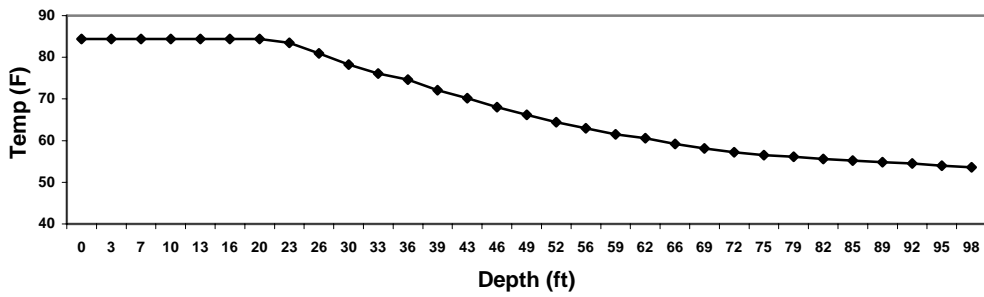


Figure 66. DO - Norris - Clinch RM 88 - September 5, 2007

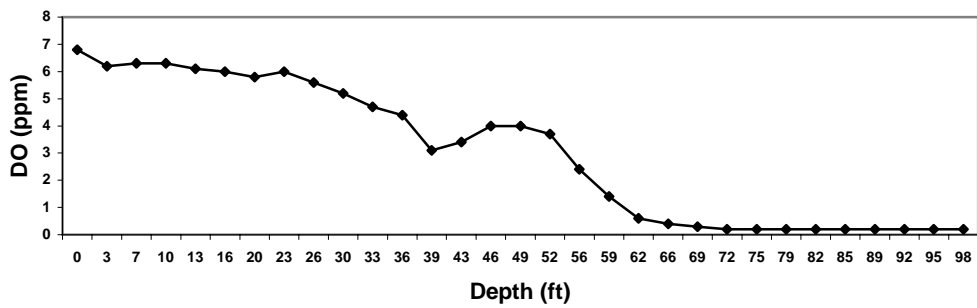


Figure 67. Temp - Norris - Clinch RM 88 - September 5, 2007

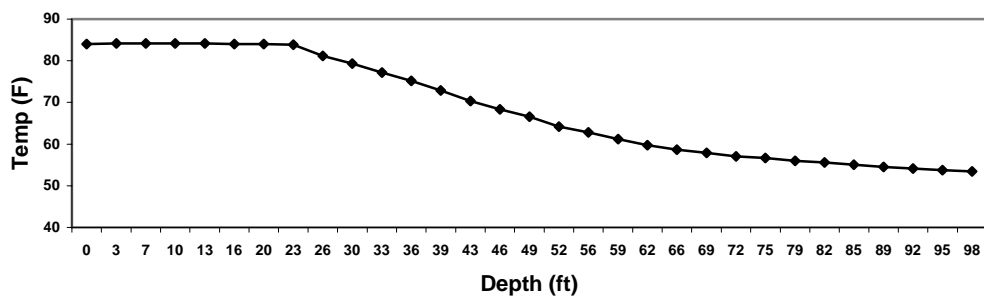


Figure 68. DO - Norris - Clinch RM 120 - September 5, 2007

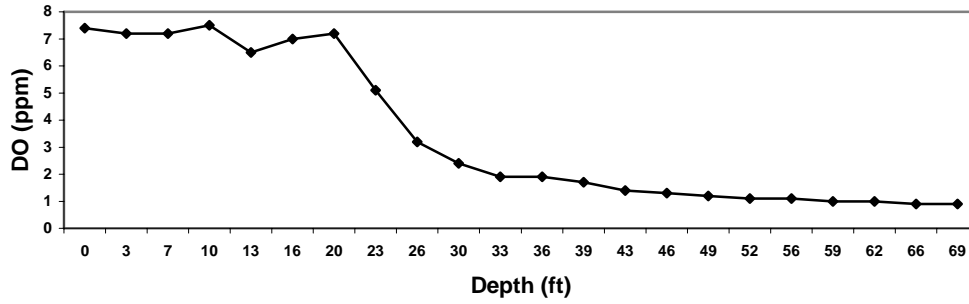


Figure 69. Temp - Norris - Clinch RM 120 - September 5, 2007

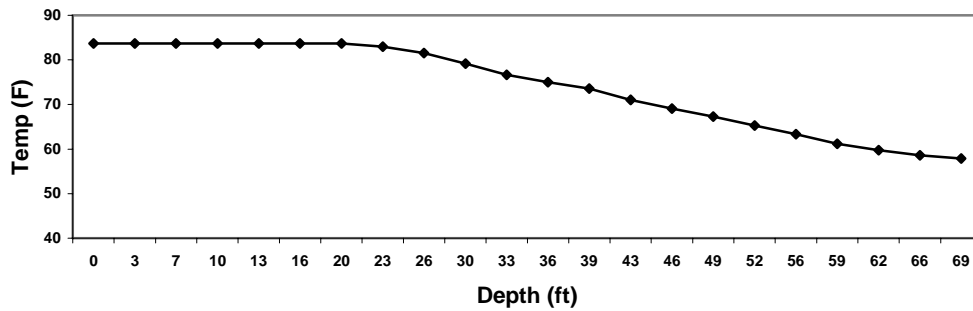


Figure 70. DO - Norris - Powell RM 19 - September 5, 2007

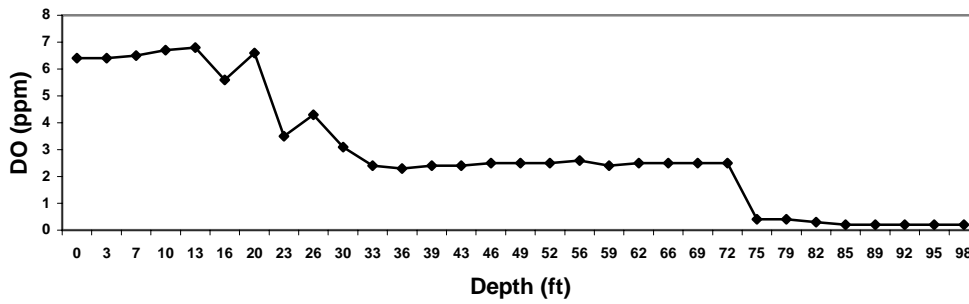
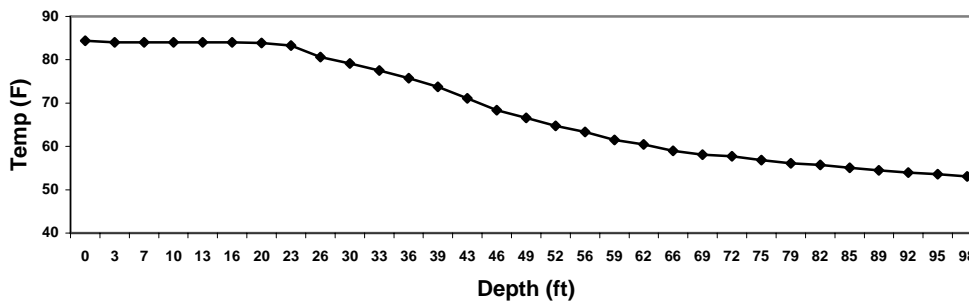


Figure 71. Temp - Norris - Powell RM 19 - September 5, 2007



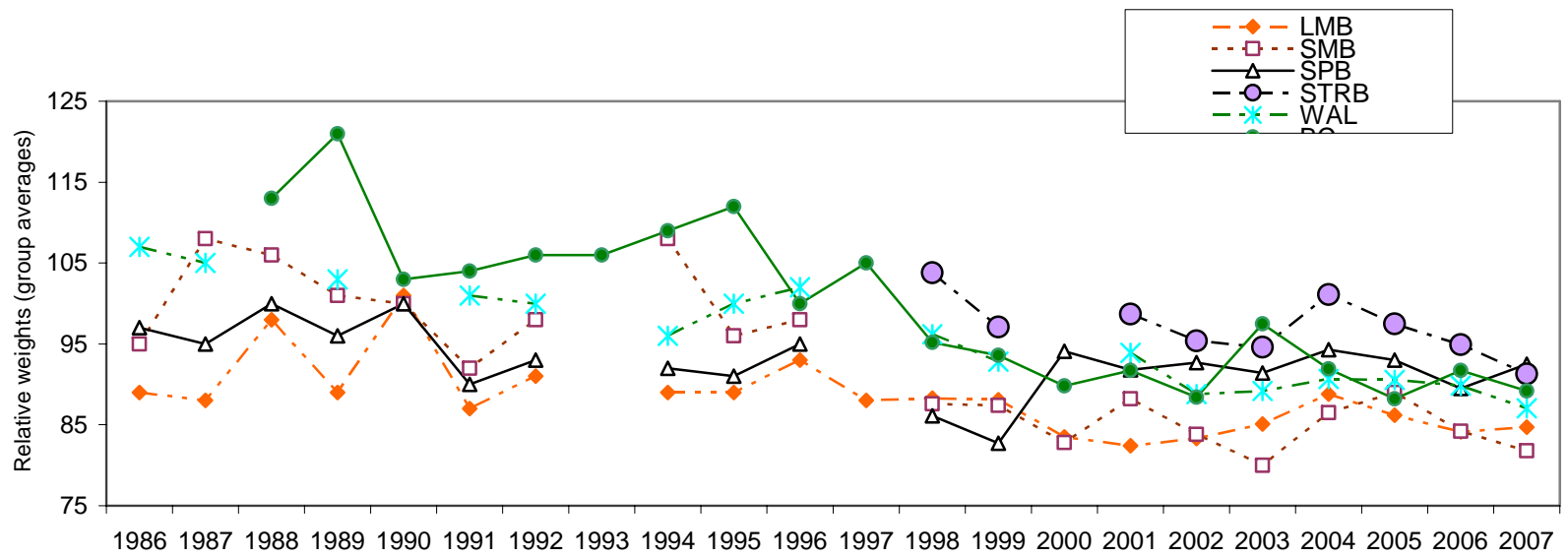


Figure 72. Wr values by certain RSD group averages for important Norris Reservoir game fish 1986 to 2007

## Appendix – Creel



MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2007

LAKE=NORRIS

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	25790	41.6	0.8	4951	0.1	7.7
02 FEBRUARY	8283	30.1	0.2	1893	0.1	2.5
03 MARCH	32559	36.1	1.0	5686	0.2	9.7
04 APRIL	10918	26.5	0.3	2186	0.1	3.3
05 MAY	43851	13.0	1.3	9068	0.3	13.1
06 JUNE	60704	9.8	1.8	11727	0.3	18.1
07 JULY	35583	28.2	1.0	7152	0.2	10.6
08 AUGUST	10103	83.7	0.3	2209	0.1	3.0
09 SEPTEMBER	39956	17.5	1.2	8191	0.2	11.9
10 OCTOBER	24073	8.3	0.7	4609	0.1	7.2
11 NOVEMBER	19702	20.2	0.6	3556	0.1	5.9
12 DECEMBER	23464	34.0	0.7	4308	0.1	7.0
-----	-----			-----		
<b>TOTAL</b>	<b>334986</b>			<b>65536</b>		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2007

LAKE=NORRIS

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	21664	54.9	0.84	33.3	2063	88.3	0.08	68.7
02 FEBRUARY	497	76.8	0.06	63.8	0	.	0.00	.
03 MARCH	23442	43.5	0.72	23.0	5535	69.4	0.17	55.7
04 APRIL	6332	29.0	0.58	11.5	1310	51.8	0.12	43.6
05 MAY	50867	55.9	1.16	53.8	16225	85.5	0.37	83.6
06 JUNE	66774	21.3	1.10	18.8	18211	32.6	0.30	31.2
07 JULY	14945	63.5	0.42	55.3	1423	77.7	0.04	66.3
08 AUGUST	10103	114.8	1.00	60.6	202	83.7	0.02	0.0
09 SEPTEMBER	12786	28.0	0.32	21.4	1598	49.1	0.04	41.5
10 OCTOBER	11314	27.0	0.47	25.8	2648	51.1	0.11	52.4
11 NOVEMBER	12412	30.5	0.63	22.4	1379	101.9	0.07	97.8
12 DECEMBER	21118	46.7	0.90	30.2	939	47.9	0.04	33.9
-----	-----				-----			
<b>TOTAL</b>	<b>252254</b>				<b>51533</b>			

**SUMMARY OF SPECIES CATCH STATISTICS - 2007**

**LAKE=NORRIS**

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
ANY GAR	327	1117.6	0.1	0	0	.	0.0	0	100.0	.	0
CHANNEL CATFISH	13533	69.3	5.4	1177	3933	124.7	7.8	983	70.9	1.34	8
FLATHEAD CATFISH	184	661.1	0.1	0	184	661.1	0.4	0	0.0	2.20	1
WHITE BASS	1731	447.1	0.7	0	0	.	0.0	0	100.0	.	0
STRIPED BASS	13143	64.4	5.3	10933	1187	146.3	2.4	1039	91.0	7.79	8
ROCK BASS	504	890.9	0.2	0	0	.	0.0	0	100.0	.	0
BLUEGILL	75773	23.8	30.3	65728	24070	34.4	48.0	20727	68.2	0.27	108
REDEAR SUNFISH	381	714.5	0.2	0	256	882.2	0.5	0	32.8	1.30	1
SMALLMOUTH BASS	56308	23.0	22.5	50440	2589	85.5	5.2	2158	95.4	2.70	12
SPOTTED BASS	37368	33.6	14.9	30186	1899	42.6	3.8	1372	94.9	0.75	17
LARGEMOUTH BASS	25937	42.0	10.4	23457	1577	166.7	3.1	1183	93.9	1.70	4
WHITE CRAPPIE	2431	120.4	1.0	2309	1902	122.6	3.8	1766	21.8	0.84	14
BLACK CRAPPIE	12969	124.2	5.2	12489	6040	116.9	12.0	5926	53.4	0.74	41
BLACKNOSE CRAPPIE	1400	320.5	0.6	1400	1012	391.8	2.0	1012	27.7	0.53	5
WALLEYE	6389	103.5	2.6	4733	5500	105.3	11.0	4921	13.9	2.22	18
FRESHWATER DRUM	1357	354.9	0.5	493	0	.	0.0	0	100.0	.	0

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

LAKE=NORRIS

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	2488	79.2	485	0.7	0.11		0.11		2
STRIPED BASS	41428	16.9	8174	12.4	0.28	101.1	0.04	163.4	60
ANY SUNFISH	21485	23.5	4293	6.4	4.01	40.6	1.47	63.8	17
ANY BLACK BASS	113634	11.2	22098	33.9	0.58	33.7	0.02	105.7	161
SMALLMOUTH BASS	28619	22.2	5375	8.5	0.44	26.2	0.01	194.1	56
LARGEMOUTH BASS	339	146.0	65	0.1	0.29		0.00		1
ANY CRAPPIE	20986	21.7	4040	6.3	0.83	159.5	0.45	168.7	34
WALLEYE	45729	15.2	9053	13.7	0.06	51.2	0.05	56.7	57
ANY SPECIES	60278	14.4	11954	18.0	0.65	102.8	0.10	128.0	53
-----	-----		-----						
<b>TOTAL</b>	<b>334986</b>		<b>65537</b>						

**SUMMARY OF RELATIVE SPECIES CATCH RATES  
WITHIN TARGET GROUPS - 2007**

**LAKE=NORRIS**

<b>TARGET GROUP</b>	<b>SPECIES WITHIN TARGET GROUPS</b>	<b>RELATIVE CATCH RATE</b>	<b>RELATIVE HARVEST RATE</b>
ANY CATFISH	CHANNEL CATFISH	0.11	0.11
	FLATHEAD CATFISH	0.00	0.00
ANY SUNFISH	BLUEGILL	4.01	1.47
	REDEAR SUNFISH	0.00	0.00
ANY BLACK BASS	SMALLMOUTH BASS	0.35	0.02
	SPOTTED BASS	0.21	0.01
	LARGEMOUTH BASS	0.16	0.01
ANY CRAPPIE	ANY CRAPPIE	0.00	0.00
	WHITE CRAPPIE	0.12	0.09
	BLACK CRAPPIE	0.64	0.31
	BLACKNOSE CRAPPIE	0.07	0.05

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

LAKE=NORRIS

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.31	25
02 FEBRUARY	0		0	0.08	7
03 MARCH	56	0.67	19	0.65	29
04 APRIL	0		0	0.65	16
05 MAY	0		0	0.84	13
06 JUNE	0		0	0.24	9
07 JULY	15	0.00	1	0.12	11
08 AUGUST	9	0.00	3	0.92	5
09 SEPTEMBER	0		0	0.49	14
10 OCTOBER	0		0	0.89	8
11 NOVEMBER	31	0.36	5	0.63	19
12 DECEMBER	17	0.41	5	0.59	29

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

**LAKE=NORRIS**

<b>INTENDED SPECIES</b>	<b>TOTAL TRIP EXPENDITURES</b>	<b>TOTAL CONSUMER SURPLUS</b>	<b>TOTAL VALUE BY ANGLERS</b>	<b>NUMBER OF INTERVIEWS</b>
ANY CATFISH	3590	4170	7760	2
STRIPED BASS	134910	196100	331010	34
ANY SUNFISH	54890	92860	147750	13
ANY BLACK BASS	614920	491530	1106460	108
SMALLMOUTH BASS	94620	111290	201300	24
LARGEMOUTH BASS	3260	9770	13030	1
ANY CRAPPIE	46790	18470	65260	17
WALLEYE	176350	65250	241610	27
ANY SPECIES	222540	102100	324630	39
----- <b>TOTAL</b>	<b>1351870</b>	<b>1091540</b>	<b>2438810</b>	<b>265</b>

**SUMMARY OF SOCIOLOGICAL QUESTIONS - 2007**

**LAKE=NORRIS**

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

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
KY	53	6.6
TN	692	86.2
OTHERS	58	7.2

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

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
ANDERSON	167	24.7
CAMPBELL	161	23.9
CLAIBORNE	114	16.9
KNOX	107	15.9
UNION	52	7.7
OTHERS IN TN	74	11.0

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

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	586	73.7
B) 26-100	136	17.1
C) 101-250	19	2.4
D) > 250	54	6.8

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

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	430	98.2
B) VACATION	8	1.8

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

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	398	91.3
B) 2-5	27	6.2
C) 6-10	10	2.3
D) 11-15	1	0.2