Tellico Reservoir

Annual Report 2005

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Tellico Reservoir - 2005

Largemouth Bass

Population Parameter	Annual Rating	Measure	Gear	Value
Recruitment	Good	Substock CPUE (per hr)	Electrofishing	15/hr
Structure	Good	PSD	Electrofishing	67
Density	Good	CPUE ≥ Stock Size (203 mm) (per/hr)	Electrofishing	60.3/hr
	Good	CPUE ≥ Minimum Size Limit (356 mm) (per hr)	Electrofishing	20.3/hr

Fishery Forecast: Catch rates improved in 2005 for those fish greater than the minimum size limit and for largemouth greater than stock size. Good recruitment and PSD suggests the population is in good shape.

Management Recommendations: The creel limit was changed from a 356mm/2 to a straight 356 mm minimum length limit in 2001. No changes are planed in the near future.

Smallmouth Bass

Population Parameter	Annual Rating	Measure	Gear	Value
Recruitment	Poor	Substock CPUE (per hr)	Electrofishing	1.0/hr
Structure	Fair	PSD	Electrofishing	46
Density	Fair	CPUE ≥ Stock Size (178 mm) (per hr)	Electrofishing	13/hr
	Poor	CPUE ≥ Minimum Size Limit (457 mm) (per hr)	Electrofishing	0.7/hr

Fishery Forecast: A new 457 mm minimum length limit was placed on smallmouth in 2003. This length limit is designed not only to increase the number of smallmouth in the reservoir, but to improve the overall size structure of the fishery.

Management Recommendations: We encourage anglers to be patient with the new limit for several years to determine its effectiveness at improving the quality of the fishery.

Spotted Bass

Population Parameter	Annual Rating	Measure	Gear	Value
Recruitment	Good	Substock CPUE (per hr)	Electrofishing	9.0/hr
Structure	Poor	PSD	Electrofishing	33
Density	Good	CPUE ≥ Stock Size (178 mm) (per hr)	Electrofishing	37.3/hr
	Good	CPUE ≥ Minimum Size Limit (none) (per hr)	Electrofishing	46.0/hr

Fishery Forecast: There is a high percentage of spotted bass in the fishery when compared to largemouth and smallmouth bass. Anglers are encouraged to harvest this species for the table because they compete with the more desirable and larger growing largemouth and smallmouth bass.

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

White Crappie

Population Parameter	Annual Rating	Measure	Gear	Value
Structure	Good	PSD	Electrofishing	100
Density	Good	CPUE ≥ Stock Size (127 mm) (per hr)	Electrofishing	15.3/hr
	Fair	CPUE ≥ Minimum size Limit (254 mm) (per hr)	Electrofishing	8.0/hr

Fishery Forecast: The population appears stable and angler catch has been good during the past several years. Growth rates of Tellico crappie are among the slowest in Tennessee and it takes 4-5 years for them to reach harvestable size. The next creel census will be performed on Tellico in 2006 and this information will help us further evaluate the status of the fishery.

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

Stocking and Stocking Evaluations

Species	Number Stocked	Mark	Evaluation	Value
Rainbow Trout	1,001	NA	NA	NA

Habitat Enhancement and Monitoring

Water Quality	Temperature	July-August (Satisfactory)
	D.O.	July-August (Satisfactory)

Tables

Table 1. Tellico Reservoir physical and chemical characteristics.

Surface Area	16,056 acres	6,498 hectares
Drainage Area		
Full Pool Elevation	813 feet-msl	248 m-msl
Mean Annual Fluctuation	6 feet	1.8 m
Shoreline Distance	357 miles	575 km
Total Developed Shoreline	7%	
Maximum Depth	78 feet	23.8 m
Thermocline Depth	10 feet	3 m
Trophic Status (Forebay)	Mesotrophic	
Mean Chlorophyll (Forebay)	6.2 mg/L	
Trophic Index Value Carlson (1977)	49.2	
Hydraulic Retention Time	37 days	
Reservoir Age	24 years	

Table 2 Tellico Reservoir fish stockings 1993 - 2005.

Species	**Date**	**Rate** (per acre)	**Total Stocked**
Walleye	May-June 1993	0.5	7,751
	May 1994	5.9	94,725
	May 1995	7.7	123,848
	May 1998	10.2	162,991
	May 2000	4.5	71,733
	May 2002	9.7	155,750
	May 2004	5.9	94,689
Rainbow Trout	1993	2.7	43,562
	1994	1.0	16,046
	1995	2.5	40,110
	1996	1.8	28,412
	1997	0.5	8,087
	1998	0.4	5,992
	1999	0.3	5,016
	2000	0.6	9,413
	2001	0.4	6,016
	2002	0.4	6,038
	2003	0.5	7,492
	2004	0.4	6,004
	2005	0.1	1,001
Brown Trout	1998	0.3	4,797
	1999	0.9	13,960
	2003	0.9	14,524

Table 3. Relative stock density, mean relative weight, and catch per unit effort by RSD catagory for target species collected in Tellico Reservoir 1998-2005.

			#	Substock			RSD-stock				RSD-quality				RSD-preferred				RSD-memorable				RSD-trophy				Total		PSD
Species	Year	Gear	Samp.	No.	CPE	Pct.	No.	CPE	Pct.	Wr	No.	CPE	Pct.	Wr	No.	CPE	Pct.	Wr	No.	CPE	Pct.	Wr	No.	CPE	Pct.	Wr	No.	CPE	Pct.
Largemouth	1998	Ele	16	27	6.8	14.4	78	19.5	41.7	79.9	66	16.5	35.3	82.2	8	2.0	4.3	84.9	8	2.0	4.3	93.2	0	0.0	0.0	0.0	187	46.8	51.0
Bass	1999	Ele	20	40	8.0	25.2	66	13.2	41.5	83.7	44	8.8	27.7	83.4	5	1.0	3.1	87.3	4	0.8	2.5	92.6	0	0.0	0.0	0.0	159	31.8	45.0
	2000	Ele	20	37	7.4	19.1	76	15.2	39.2	79.2	70	14.0	36.1	80.6	10	2.0	5.2	89.2	1	0.2	1.0	74.6	0	0.0	0.0	0.0	194	38.8	52.0
	2001	Ele	16	61	15.3	35.7	42	10.5	24.6	80.5	54	13.5	31.6	81.1	12	3.0	7.0	88.6	2	0.5	1.2	88.8	0	0.0	0.0	0.0	171	42.8	62.0
	2002	Ele	16	23	5.8	11.9	63	15.8	32.6	80.8	84	21.0	43.5	83.1	22	5.5	11.4	87.1	1	0.3	0.5	97.0	0	0.0	0.0	0.0	193	48.3	63.0
	2004	Ele	16	22	5.5	11.7	59	14.8	31.4	81.3	87	21.8	46.3	83.0	20	5.0	10.6	84.5	0	0.0	0.0	0.0	0	0.0	0.0	0.0	188	47.0	64.0
	2005	Ele	12	45	15.0	19.5	61	20.3	26.4		92	30.7	39.8		32	10.7	13.9		1	0.3	0.4		0	0.0	0.0	0.0	231	77.0	67.0
Smallmouth	1998	Ele	16	11	2.8	17.7	31	7.8	50.0	73.9	9	2.3	14.5	74.3	4	1.0	6.5	77.9	6	1.5	9.7	87.6	1	0.3	1.6	87.5	62	15.5	39.0
Bass	1999	Ele	20	26	5.2	44.1	22	4.4	37.3	75.9	10	2.0	17.0	79.6	1	0.2	1.7	80.2	0	0.0	0.0	0.0	0	0.0	0.0	0.0	59	11.8	33.0
	2000	Ele	20	3	0.6	12.0	12	2.4	48.0	77.1	7	1.4	28.0	75.5	2	0.4	8.0	81.4	1	0.2	4.0	85.8	0	0.0	0.0	0.0	25	5.0	45.0
	2001	Ele	16	10	2.5	30.3	13	3.3	39.4	80.1	7	1.8	21.2	77.0	2	0.5	6.1	81.1	1	0.3	3.0	75.9	0	0.0	0.0	0.0	33	8.3	43.0
	2002	Ele	16	10	2.5	23.8	16	4.0	38.1	86.0	9	2.3	21.4	82.5	4	1.0	9.5	81.3	3	0.8	7.1	78.3	0	0.0	0.0	0.0	42	10.5	50.0
	2004	Ele	16	5	1.3	10.4	19	4.8	39.6	80.7	18	4.5	37.5	79.3	5	1.3	10.4	79.8	1	0.3	2.1	71.1	0	0.0	0.0	0.0	48	12.0	56.0
	2005	Ele	12	3	1.0	7.1	21	7.0	50.0		10	3.3	23.8		5	1.7	11.9		2	0.7	4.8		1	0.3	2.4		42	14.0	46.0
Spotted	1998	Ele	16	14	3.5	30.4	27	6.8	58.7	74.1	5	1.3	10.9	79.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	46	11.5	16.0
Bass	1999	Ele	20	51	10.2	45.1	59	11.8	52.2	73.0	3	0.6	2.7	73.6	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	113	22.6	5.0
	2000	Ele	20	32	6.4	27.6	75	15.0	64.7	85.2	8	1.6	6.8	79.6	1	0.2	1.0	85.1	0	0.0	0.0	0.0	0	0.0	0.0	0.0	116	32.5	11.0
	2001	Ele	16	43	10.8	29.1	72	18.0	48.6	84.7	33	8.3	22.2	84.8	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	148	37.0	31.0
	2002	Ele	16	27	6.8	15.9	121	30.3	71.2	88.9	21	5.3	12.4	85.4	1	0.3	0.6	89.4	0	0.0	0.0	0.0	0	0.0	0.0	0.0	170	42.5	15.0
	2004	Ele	16	24	6.0	11.5	143	35.8	68.4	84.6	39	9.8	18.7	83.3	3	0.8	1.4	90.7	0	0.0	0.0	0.0	0	0.0	0.0	0.0	209	52.3	23.0
	2005	Ele	12	27	9.0	19.6	74	24.7	53.6		35	11.7	25.4		2	0.7	1.5		0	0.0	0.0	0.0	0	0.0	0.0	0.0	138	46.0	33.0
White	1998	Ele	16	0	0.0	0.0	0	0.0	0.0	0.0	8	2.0	36.4	80.7	13	3.3	59.0	79.7	1	0.3	4.5	91.9	0	0.0	0.0	0.0	22	5.5	100.0
Crappie	1999	Ele	20	0	0.0	0.0	1	0.2	4.5	80.1	5	1.0	22.7	80.0	10	2.0	45.5	79.9	6	1.2	27.3	76.2	0	0.0	0.0	0.0	22	4.4	95.0
	2000	Ele	20	0	0.0	0.0	1	0.2	1.4	77.9	35	7.0	50.7	80.4	27	5.4	39.1	78.8	6	1.2	8.7	77.9	0	0.0	0.0	0.0	69	13.8	99.0
	2001	Ele	16	0	0.0	0.0	0	0.0	0.0	0.0	5	1.3	35.7	74.9	8	2.0	57.1	77.2	1	0.3	7.1	78.3	0	0.0	0.0	0.0	14	3.5	100.0
	2002	Ele	16	0	0.0	0.0	0	0.0	0.0	0.0	10	2.5	27.0	76.8	23	5.8	62.2	79.2	4	1.0	10.8	77.4	0	0.0	0.0	0.0	37	9.3	100.0
	2004	Ele	16	0	0.0	0.0	0	0.0	0.0	0.0	14	3.5	26.4	82.7	31	7.8	58.5	80.3	7	1.8	13.2	82.0	1	0.3	1.9	0.0	53	13.3	100.0
	2005	Ele	12	0	0.0	0.0	0	0.0	0.0	0.0	17	5.7	37.0		24	8.0	52.2		5	1.7	10.9		0	0.0	0.0	0.0	46	15.3	100.0
Black	1998	Ele	16	0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	1	0.3	100.0	85.9	0	0.0	0.0	0.0	1	0.3	100.0
Crappie	1999	Ele	20	0	0.0	0.0	0	0.0	0.0	0.0	1	0.2	50.0	76.1	1	0.2	50.0	79.3	0	0.0	0.0	0.0	0	0.0	0.0	0.0	2	0.4	100.0
	2000	Ele	20	0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	1	0.2	50.0	73.2	1	0.2	50.0	79.7	0	0.0	0.0	0.0	2	0.4	100.0
	2001	Ele	16	0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	2	0.5	66.7	80.9	1	0.3	33.3	66.8	0	0.0	0.0	0.0	3	0.8	100.0
	2002	Ele	16	0	0.0	0.0	3	0.8	25.0	82.3	4	1.0	33.3	75.7	4	1.0	33.3	82.1	1	0.3	8.3	78.3	0	0.0	0.0	0.0	12	3.0	75.0
	2004	Ele	16	0	0.0	0.0	1	0.3	7.7	79.2	7	1.8	53.9	79.8	4	1.0	30.8	85.9	1	0.3	7.7	71.7	0	0.0	0.0	0.0	13	3.3	92.0
	2005	Ele	12	0	0.0	0.0	0	0.0	0.0	0.0	2	0.7	28.6		4	1.3	57.1		1	0.3	14.3		0	0.0	0.0	0.0	7	2.3	100.0
Striped	1998	Gill	33	0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0
Bass	1999	Gill	27	0	0.0	0.0	10	0.4	90.9	102.7	1	0.0	9.1	96.8	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	11	0.4	9.0
Walleye	1998	Gill	33	0	0.0	0.0	0	0.0	0.0	0.0	5	0.2	33.3	94.5	6	0.2	40.0	89.1	4	0.1	26.7	90.1	0	0.0	0.0	0.0	15	0.5	100.0
	1999	Gill	27	0	0.0	0.0	0	0.0	0.0	0.0	71	2.7	47.0	88.6	65	2.5	43.0	90.3	15	0.6	9.9	90.8	0	0.0	0.0	0.0	151	5.8	100.0
Sauger	1998	Gill	33	0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	1	0.0	100.0	96.7	0	0.0	0.0	0.0	0	0.0	0.0	0.0	1	0.0	100.0
	1999	Gill	27	0	0.0	0.0	0	0.0	0.0	0.0	4	0.2	40.0	93.2	6	0.2	60.0	94.8	0	0.0	0.0	0.0	0	0.0	0.0	0.0	10	0.4	100.0
Saugeye	1998	Gill	33	0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	1	0.0	100.0	96.6	0	0.0	0.0	0.0	0	0.0	0.0	0.0	1	0.0	100.0
	1999	Gill	27	0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0
Channel	1998	Gill	33	0	0.0	0.0	8	0.2	40.0	76.5	11	0.3	55.0	83.8	1	0.0	5.0	97.8	0	0.0	0.0	0.0	0	0.0	0.0	0.0	20	0.6	12.0
Catfish	1999	Gill	27	0	0.0	0.0	1	0.0	4.3	83.2	18	0.7	78.3	87.1	4	0.2	17.4	102.5	0	0.0	0.0	0.0	0	0.0	0.0	0.0	23	0.9	96.0

Table 4. Mean relative weight and standard error values by size class for Tellico Reservoir largemouth bass collected during the 2005 electrofishing sample.

Size Class	Mean Wr	Std. Error	N
175	80.256	1.950	4
200	81.908	1.374	15
225	78.802	1.378	7
250	78.852	2.033	15
275	80.894	1.663	17
300	84.963	1.446	24
325	85.471	1.258	33
350	80.438	0.872	32
375	83.053	1.286	14
400	87.604	1.871	8
425	91.932	3.331	2
450	87.921	3.457	7
475	93.985	2.319	3
500	77.095		1
525			
550	80.292		1
		Total Catch	183

Table 5. Mean relative weight and standard error values by size class for Tellico Reservoir smallmouth bass collected during the 2005 electrofishing sample.

Size Class	Mean Wr	Std. Error	N
200	84.119	3.889	5
225	81.812	2.815	9
250	83.194	2.737	5
275	86.347	1.485	3
300	80.344	2.744	4
325	81.332	1.371	5
350	76.725	5.449	2
375	78.557	8.333	2
400	82.635		1
425	71.899		1
450			
475	79.225		1
		Total Catch	38

Table 6. Mean relative weight and standard error values by size class for Tellico Reservoir spotted bass collected during the 2005 electrofishing sample.

Size Class	Mean Wr	Std. Error	N
200	90.502	1.728	14
225	86.048	1.473	21
250	87.484	1.559	24
275	84.201	1.793	20
300	82.685	1.511	16
325	85.687	2.395	5
350	86.940	4.196	2
		Total Catch	102

Table 7. Mean relative weight and standard error values by size class for Tellico Reservoir white crappie collected during the 2005 electrofishing sample.

Size Class	Mean Wr	Std. Error	N
200	88.447	1.466	3
225	79.305	1.052	14
250	77.415	0.962	13
275	79.048	1.025	11
300	75.913	2.875	4
325	69.931		1
		Total Catch	46

Table 8. Summary of July 2005 Tellico Reservoir water quality parameters at Little Tennessee River Mile 3.

Depth (m)	Temp ©	Cond	PH	DO	Site	Secchi (m)	Time	Date
0	25.1	58	7.9	8.5	LT03	2.0	0930	7/12/2005
1	24.9	58	7.9	8.1				
2	24.9	58	7.8	8.2				
3	24.9	58	7.8	8.1				
4	24.7	58	7.8	8.1				
5	18.6	35	7.8	8.8				
6	16.3	29	7.7	8.9				
7	15.3	28	7.7	8.4				
8	15.2	27	7.7	8.5				
9	15.1	27	7.7	8.4				
10	14.7	27	7.6	8.3				
11	14.7	27	7.6	8.2				
12	14.7	27	7.6	8.2				
13	14.6	27	7.6	8.2				
14	14.6	27	7.5	8.2				
15	14.5	27	7.5	7.9				
16	14.5	28	7.6	7.9				
17	14.5	28	7.5	7.9				
18	14.5	28	7.5	7.9				
19	14.5	28	7.5	7.9				
20	14.5	28	7.5	8.0				
21	14.5	28	7.5	7.9				
22	14.5	28	7.5	7.8				
23	14.4	28	7.4	7.6				
24	14.4	29	7.4	7.7				
25	14.4	29	7.4	7.4				
26	14.4	29	7.4	7.0				

Table 9. Summary of July 2005 Tellico Reservoir water quality parameters at Little Tennessee River Mile 18

Depth (m)	Temp ©	Cond	PH	DO	Site	Secchi (m)	Time	Date
0	24.4	52	7.8	8.9	LT18	1.8	1037	7/12/2005
1	24.4	52	7.8	8.0				
2	24.4	52	7.7	7.9				
3	24.3	51	7.7	8.3				
4	18.3	34	7.6	8.7				
5	15.8	26	7.6	9.0				
6	15.6	25	7.5	9.1				
7	15.4	24	7.5	8.9				
8	15.2	24	7.4	8.9				
9	15.1	24	7.3	9.0				
10	15.1	24	7.3	8.8				
11	15.1	24	7.4	8.7				
12	15.1	24	7.3	8.8				
13	15.1	24	7.3	8.8				
14	15.1	25	7.3	8.6				
15	15.0	25	7.3	8.7				

Table 10. Summary of July 2005 Tellico Reservoir water quality parameters at Little Tennessee River Mile 25

Depth (m)	Temp ©	Cond	PH	DO	Site	Secchi (m)	Time	Date
0	22.9	29	7.7	8.8	LT25	1.8	1118	7/12/2005
1	20.8	27	7.6	8.5				
2	16.2	24	7.5	9.5				
3	15.1	24	7.4	9.5				
4	15.0	24	7.4	9.4				
5	14.9	24	7.3	9.4				
6	14.8	24	7.3	9.4				
7	14.7	24	7.3	9.7				
8	14.7	24	7.3	9.3				
9	14.6	24	7.3	9.5				
10	14.6	24	7.3	9.4				
11	14.6	24	7.3	9.1				

Table 11. Summary of July 2005 Tellico Reservoir water quality parameters at Tellico River Mile 4

Depth (m)	Temp ©	Cond	PH	DO	Site	Secchi (m)	Time	Date
0	26.2	90	8.5	8.2	TL04	1.2	1150	7/12/2005
1	26.1	90	8.3	8.3				
2	25.9	90	8.2	8.6				
3	25.0	84	8.2	8.0				
4	18.0	38	8.0	8.6				
5	16.6	33	7.9	6.9				
6	15.8	32	7.8	5.9				
7	15.6	31	7.7	6.2				
8	15.6	30	7.6	5.5				
9	15.5	31	7.4	5.6				
10	15.3	32	7.4	4.7				
11	15.2	32	7.3	4.5				
12	15.2	32	7.3	4.4				
13	15.2	33	7.1	4.4				

Table 12. Summary of August 2005 Tellico Reservoir water quality parameters at Little Tennessee River Mile 3.

Depth (m)	Temp ©	Cond	PH	DO	Site	Secchi (m)	Time	Date
0	27.4	82		8.0	LT03	2.2	0842	8/5/2005
1	27.3	88		7.9				
2	26.5	95		8.2				
3	26.2	94		8.7				
4	21.3	61		9.6				
5	18.4	33		9.4				
6	16.6	27		8.3				
7	16.3	27		8.5				
8	16.1	26		8.3				
9	15.6	27		7.6				
10	15.5	27		7.3				
11	15.4	27		6.9				
12	15.4	27		7.1				
13	15.2	27		7.2				
14	15.1	27		7.1				
15	15.1	27		6.8				
16	15.1	27		6.8				
17	15.0	27		7.0				
18	14.9	27		7.0				
19	14.9	27		6.8				
20	14.9	27		6.6				
21	14.9	27		6.7				
22	14.9	27		6.9				
23	14.9	27		6.7				
24	14.9	28		6.9				

Table 13. Summary of August 2005 Tellico Reservoir water quality parameters at Little Tennessee River Mile 18

Depth (m)	Temp ©	Cond	PH	DO	Site	Secchi (m)	Time	Date
0	28.1	47		7.8	LT18	2.2	0947	8/5/2005
1	27.9	47		7.8				
2	26.6	44		8.4				
3	20.2	31		9.0				
4	17.0	25		8.7				
5	16.7	25		8.5				
6	16.6	25		8.5				
7	16.5	25		8.2				
8	16.4	25		8.2				
9	16.4	25		7.9				
10	16.3	25		8.0				
11	16.3	25		7.9				
12	16.3	25		7.8				
13	16.3	25		7.8				
14	16.2	25		7.8				
15	16.2	25		7.6				
16	16.2	25		7.7				
17	16.2	25		7.7				

Table 14. Summary of August 2005 Tellico Reservoir water quality parameters at Little Tennessee River Mile 25

Depth (m)	Temp ©	Cond	PH	DO	Site	Secchi (m)	Time	Date
0	26.7	28		7.8	LT25	2.8	1015	8/5/2005
1	26.2	28		7.5				
2	21.7	26		8.4				
3	18.2	25		9.1				
4	17.4	24		9.1				
5	16.9	24		9.4				
6	16.6	24		9.3				
7	16.5	24		9.2				
8	16.4	24		9.1				
9	16.2	24		9.2				
10	16.0	24		9.2				
11	16.0	24		8.8				

Table 15. Summary of August 2005 Tellico Reservoir water quality parameters at Tellico River Mile 4

Depth (m)	Temp ©	Cond	PH	DO	Site	Secchi (m)	Time	Date
0	29.3	82		8.3	TL04	1.8	1050	8/5/2005
1	29.2	82		8.0				
2	29.1	82		7.7				
3	20.3	38		9.5				
4	18.2	30		9.3				
5	16.7	31		6.6				
6	16.4	31		6.4				
7	16.1	36		4.9				
8	15.8	39		3.9				
9	15.8	40		3.9				
10	15.7	41		3.2				
11	15.7	41		3.1				

Table 16. Tellico Reservoir water levels for 2005. (TVA)

ELEVATION	MONTH	DAY	ELEVATION	MONTH	DAY	ELEVATION	MONTH	DAY
810.28	JANUARY	1	809.20	FEBRUARY	24	811.76	APRIL	19
809.73	JANUARY	2	809.05	FEBRUARY	25	811.34	APRIL	20
809.70	JANUARY	3	809.02	FEBRUARY	26	811.56	APRIL	21
810.38	JANUARY	4	808.76	FEBRUARY	27	811.52	APRIL	22
810.51	JANUARY	5	808.14	FEBRUARY	28	811.77	APRIL	23
810.61	JANUARY	6	808.27	MARCH	1	811.88	APRIL	24
810.80	JANUARY	7	808.86	MARCH	2	811.86	APRIL	25
810.42	JANUARY	8	809.22	MARCH	3	812.17	APRIL	26
809.71	JANUARY	9	809.13	MARCH	4	812.29	APRIL	27
809.16	JANUARY	10	809.04	MARCH	5	812.16	APRIL	28
809.30	JANUARY	11	808.94	MARCH	6	812.26	APRIL	29
808.87	JANUARY	12	808.45	MARCH	7	812.34	APRIL	30
808.87	JANUARY	13	809.03	MARCH	8	812.48	MAY	1
809.35	JANUARY	14	809.31	MARCH	9	812.57	MAY	2
809.37	JANUARY	15	809.58	MARCH	10	812.89	MAY	3
808.81	JANUARY	16	809.65	MARCH	11	812.77	MAY	4
808.68	JANUARY	17	809.28	MARCH	12	812.74	MAY	5
808.59	JANUARY	18	808.98	MARCH	13	812.71	MAY	6
808.49	JANUARY	19	808.50	MARCH	14	812.37	MAY	7
808.31	JANUARY	20	808.36	MARCH	15	812.39	MAY	8
808.14	JANUARY	21	808.20	MARCH	16	812.05	MAY	9
807.54	JANUARY	22	808.62	MARCH	17	812.30	MAY	10
807.48	JANUARY	23	808.53	MARCH	18	812.35	MAY	11
809.20	JANUARY	24	808.88	MARCH	19	812.19	MAY	12
809.97	JANUARY	25	809.07	MARCH	20	812.29	MAY	13
810.02	JANUARY	26	809.06	MARCH	21	812.64	MAY	14
809.85	JANUARY	27	809.02	MARCH	22	812.77	MAY	15
809.39	JANUARY	28	809.25	MARCH	23	812.95	MAY	16
809.55	JANUARY	29	809.31	MARCH	24	812.60	MAY	17
809.56	JANUARY	30	809.35	MARCH	25	812.44	MAY	18
809.53	JANUARY	31	809.47	MARCH	26	812.67	MAY	19
809.71	FEBRUARY	1	809.75	MARCH	27	813.22	MAY	20
809.71	FEBRUARY	2	810.11	MARCH	28	813.03	MAY	21
809.75	FEBRUARY	3	809.89	MARCH	29	813.01	MAY	22
810.18	FEBRUARY	4	809.64	MARCH	30	812.72	MAY	23
809.71	FEBRUARY	5	809.41	MARCH	31	812.58	MAY	24
809.10	FEBRUARY	6	809.90	APRIL	1	812.71	MAY	25
808.81	FEBRUARY	7	811.22	APRIL	2	812.67	MAY	26
808.90	FEBRUARY	8	811.98	APRIL	3	812.62	MAY	27
808.87	FEBRUARY	9	812.06	APRIL	4	812.91	MAY	28
808.92	FEBRUARY	10	811.40	APRIL	5	812.72	MAY	29
809.58	FEBRUARY	11	810.70	APRIL	6	812.52	MAY	30
809.85	FEBRUARY	12	810.29	APRIL	7	812.56	MAY	31
809.51	FEBRUARY	13	809.79	APRIL	8	812.63	JUNE	1
809.66	FEBRUARY	14	809.78	APRIL	9	812.75	JUNE	2
809.67	FEBRUARY	15	810.16	APRIL	10	812.66	JUNE	3
808.83	FEBRUARY	16	810.20	APRIL	11	812.74	JUNE	4
808.82	FEBRUARY	17	810.47	APRIL	12	812.71	JUNE	5
808.80	FEBRUARY	18	810.94	APRIL	13	812.71	JUNE	6
808.46	FEBRUARY	19	811.04	APRIL	14	812.36	JUNE	7
808.39	FEBRUARY	20	811.11	APRIL	15	812.52	JUNE	8
809.29	FEBRUARY	21	811.30	APRIL	16	812.42	JUNE	9
810.05	FEBRUARY	22	811.50	APRIL	17	812.49	JUNE	10
809.83	FEBRUARY	23	811.73	APRIL	18	813.02	JUNE	11

Table 17. Tellico Reservoir water levels for 2005. (TVA)

ELEVATION	MONTH	DAY	ELEVATION	MONTH	DAY	ELEVATION	MONTH	DAY
813.10	JUNE	12	812.91	AUGUST	5	812.39	SEPTEMBER	28
812.80	JUNE	13	813.13	AUGUST	6	812.60	SEPTEMBER	29
812.52	JUNE	14	813.01	AUGUST	7	812.81	SEPTEMBER	30
812.70	JUNE	15	812.55	AUGUST	8	812.44	OCTOBER	1
812.83	JUNE	16	812.76	AUGUST	9	812.58	OCTOBER	2
812.78	JUNE	17	812.59	AUGUST	10	812.38	OCTOBER	3
812.89	JUNE	18	812.83	AUGUST	11	812.40	OCTOBER	4
812.97	JUNE	19	812.72	AUGUST	12	812.51	OCTOBER	5
812.78	JUNE	20	812.66	AUGUST	13	812.76	OCTOBER	6
812.79	JUNE	21	812.97	AUGUST	14	812.93	OCTOBER	7
812.98	JUNE	22	812.86	AUGUST	15	812.95	OCTOBER	8
812.94	JUNE	23	812.90	AUGUST	16	812.80	OCTOBER	9
812.72	JUNE	24	812.89	AUGUST	17	812.11	OCTOBER	10
813.06	JUNE	25	813.08	AUGUST	18	812.18	OCTOBER	11
812.61	JUNE	26	813.07	AUGUST	19	811.93	OCTOBER	12
812.90	JUNE	27	812.78	AUGUST	20	812.27	OCTOBER	13
812.76	JUNE	28	813.23	AUGUST	21	812.52	OCTOBER	14
812.73	JUNE	29	812.81	AUGUST	22	812.86	OCTOBER	15
812.74	JUNE	30	812.66	AUGUST	23	812.83	OCTOBER	16
813.14	JULY	1	812.36	AUGUST	24	812.47	OCTOBER	17
813.19	JULY	2	812.24	AUGUST	25	812.38	OCTOBER	18
813.00	JULY	3	812.48	AUGUST	26	812.34	OCTOBER	19
812.72	JULY	4	812.60	AUGUST	27	812.24	OCTOBER	20
812.59	JULY	5	812.76	AUGUST	28	812.25	OCTOBER	21
812.74	JULY	6	812.31	AUGUST	29	812.78	OCTOBER	22
812.97	JULY	7	812.16	AUGUST	30	812.97	OCTOBER	23
812.63	JULY	8	812.43	AUGUST	31	812.45	OCTOBER	24
812.36	JULY	9	812.63	SEPTEMBER	1	812.42	OCTOBER	25
812.12	JULY	10	812.74	SEPTEMBER	2	812.71	OCTOBER	26
812.07	JULY	11	813.05	SEPTEMBER	3	812.34	OCTOBER	27
812.23	JULY	12	813.03	SEPTEMBER	4	812.54	OCTOBER	28
812.45	JULY	13	812.88	SEPTEMBER	5	812.44	OCTOBER	29
812.41	JULY	14	812.67	SEPTEMBER	6	812.92	OCTOBER	30
812.62	JULY	15	812.53	SEPTEMBER	7	812.48	OCTOBER	31
812.59	JULY	16	812.76	SEPTEMBER	8	812.27	NOVEMBER	1
812.53	JULY	17	812.75	SEPTEMBER	9	812.08	NOVEMBER	2
812.39	JULY	18	812.74	SEPTEMBER	10	812.08	NOVEMBER	3
812.50	JULY	19	812.76	SEPTEMBER	11	811.77	NOVEMBER	4
812.59	JULY	20	812.67	SEPTEMBER	12	811.80	NOVEMBER	5
812.41	JULY	21	812.68	SEPTEMBER	13	811.48	NOVEMBER	6
812.67	JULY	22	812.57	SEPTEMBER	14	811.28	NOVEMBER	7
812.77	JULY	23	812.61	SEPTEMBER	15	811.39	NOVEMBER	8
813.14	JULY	24	812.94	SEPTEMBER	16	811.20	NOVEMBER	9
813.00	JULY	25	812.64	SEPTEMBER	17	811.43	NOVEMBER	10
812.70	JULY	26	812.27	SEPTEMBER	18	811.43	NOVEMBER	11
813.05	JULY	27	812.46	SEPTEMBER	19	811.66	NOVEMBER	12
812.85	JULY	28	812.61	SEPTEMBER	20	811.40	NOVEMBER	13
812.87	JULY	29	812.56	SEPTEMBER	21	810.96	NOVEMBER	14
812.94	JULY	30	812.61	SEPTEMBER	22	810.98	NOVEMBER	15
812.87	JULY	31	812.39	SEPTEMBER	23	810.98	NOVEMBER	16
812.16	AUGUST	1	812.36	SEPTEMBER	24	810.98	NOVEMBER	17
812.47	AUGUST	2	812.24	SEPTEMBER	25	810.88	NOVEMBER	18
812.73	AUGUST	3	812.28	SEPTEMBER	26	810.17	NOVEMBER	19
812.79	AUGUST	4	812.26	SEPTEMBER	27	809.96	NOVEMBER	20

Table 18. Tellico Reservoir water levels for 2005. (TVA)

ELEVATION	MONTH	DAY
809.50	NOVEMBER	21
809.11	NOVEMBER	22
808.58	NOVEMBER	23
808.52	NOVEMBER	24
808.68	NOVEMBER	25
808.85	NOVEMBER	26
808.92	NOVEMBER	27
808.73	NOVEMBER	28
808.57	NOVEMBER	29
808.94	NOVEMBER	30
808.79	DECEMBER	1
808.79	DECEMBER	2
809.18	DECEMBER	3
809.34	DECEMBER	4
808.92	DECEMBER	5
808.26	DECEMBER	6
808.14	DECEMBER	7
808.14	DECEMBER	8
808.33	DECEMBER	9
808.17	DECEMBER	10
808.65	DECEMBER	11
808.06	DECEMBER	12
808.12	DECEMBER	13
808.01	DECEMBER	14
809.19	DECEMBER	15
809.90	DECEMBER	16
809.76	DECEMBER	17
809.37	DECEMBER	18
808.99	DECEMBER	19
809.09	DECEMBER	20
809.15	DECEMBER	21
808.92	DECEMBER	22
809.10	DECEMBER	23
809.37	DECEMBER	24
809.55	DECEMBER	25
809.35	DECEMBER	26
809.52	DECEMBER	27
809.65	DECEMBER	28
809.35	DECEMBER	29
809.20	DECEMBER	30
809.26	DECEMBER	31

Table 19. Tellico Reservoir fish habitat enhancement summary for 2005.

	NEW SITES			RENOVATED SITES			EXPANDED SITES		
LOCATION	NUMBER	UNITS	ACRES	NUMBER	UNITS	ACRES	NUMBER	UNITS	ACRES
TRM 1.75 L*							1	50	1.00
TRM 0.5 R*							1	25	0.50
TRM 0.25 L*							1	50	1.00
							3	125	2.50

*Christmas trees

Figures

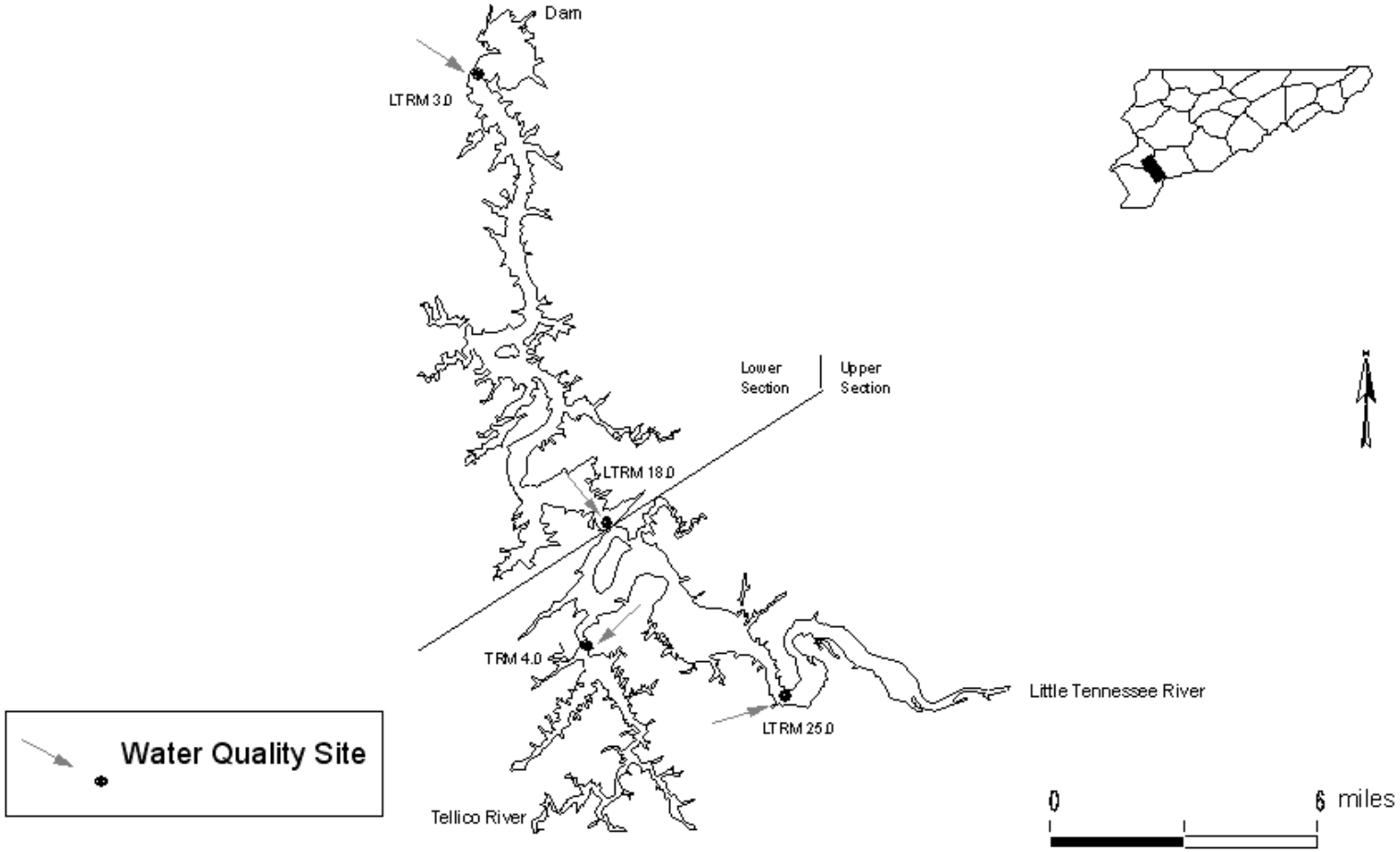


Figure 1. Water quality sites and upper and lower section boundaries of Tellico Reservoir in 2005.

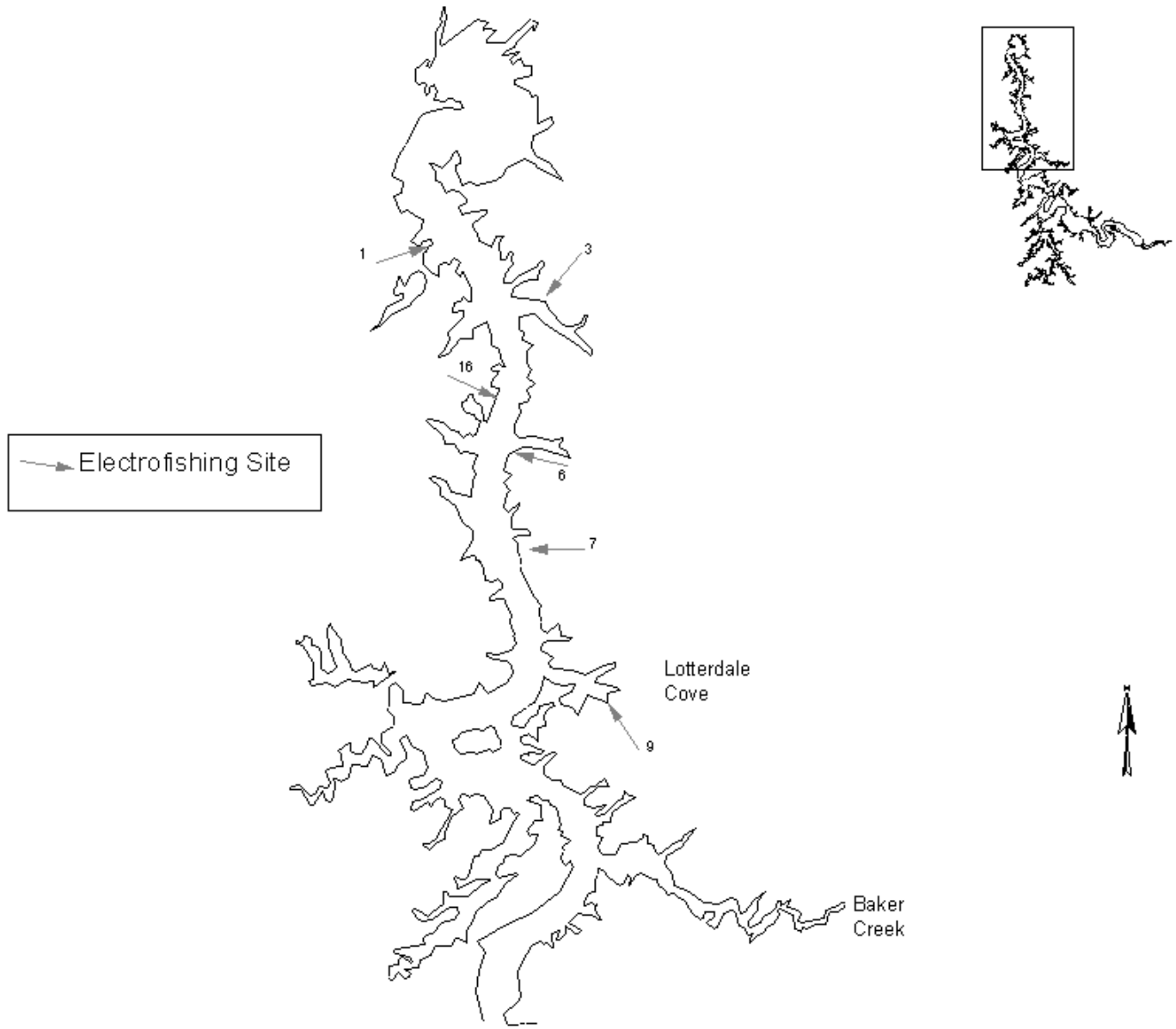


Figure 2. Electrofishing sites in the lower section of Tellico Reservoir in 2005.

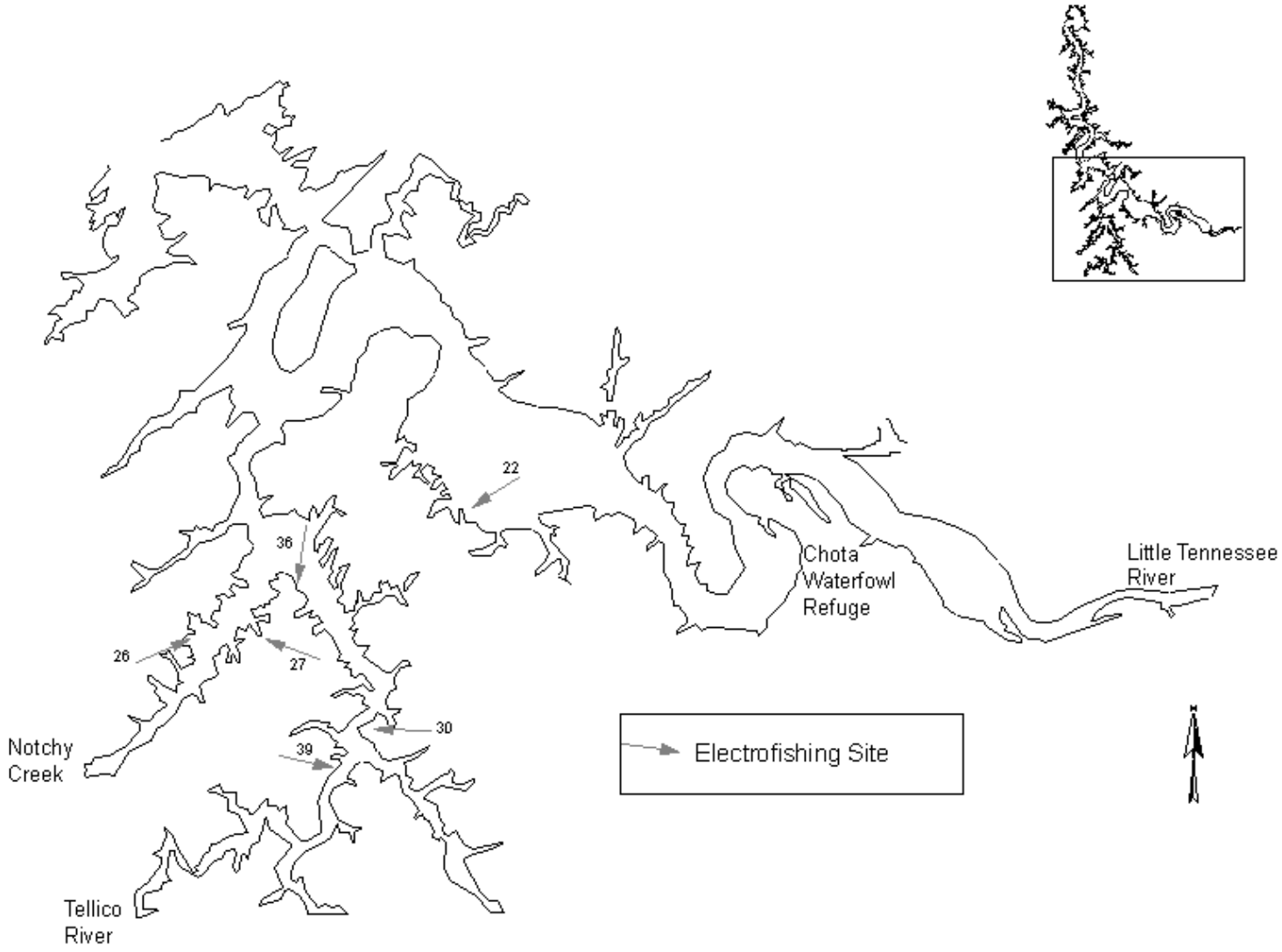


Figure 3. Electrofishing sites in the upper section of Tellico Reservoir in 2005.

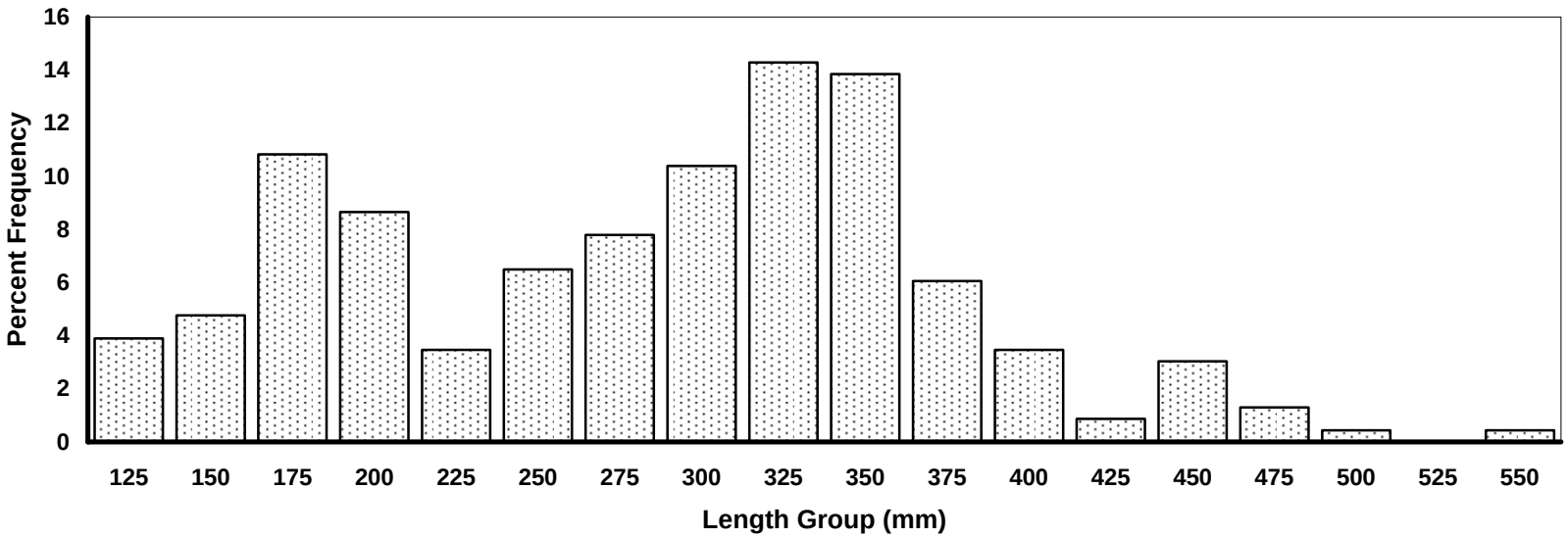


Figure 4. Tellico Reservoir largemouth bass length frequency by percent for the 2005 electrofishing sample (n=231).

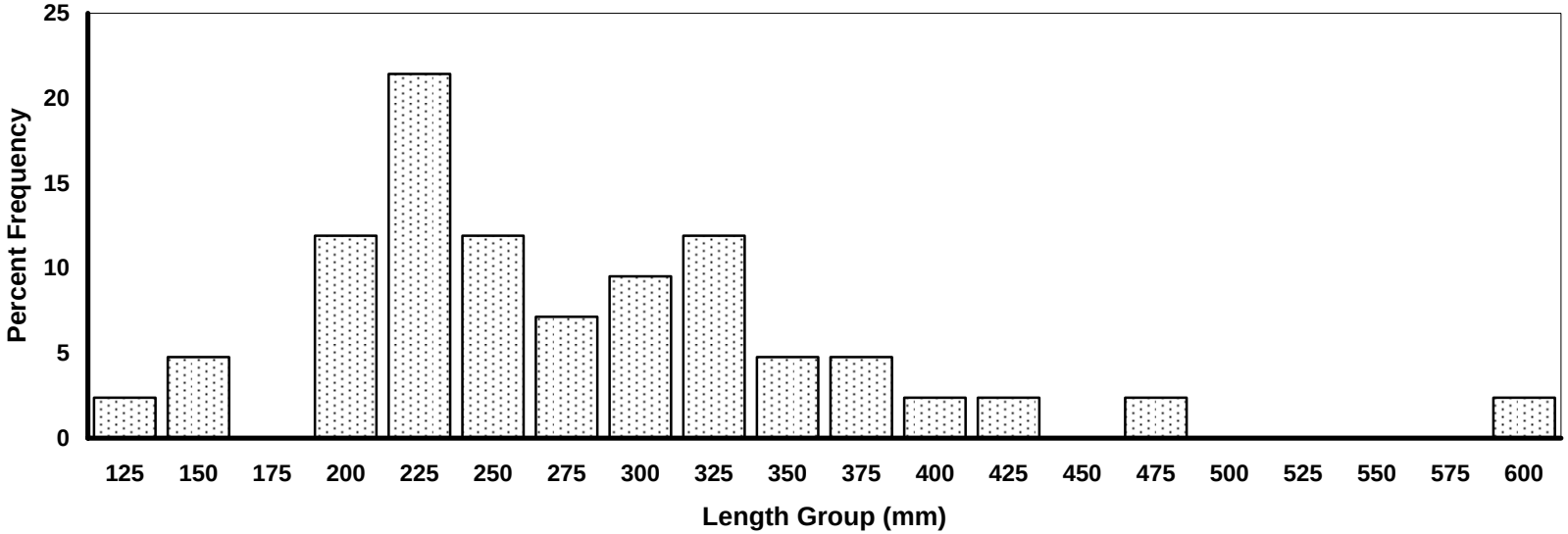


Figure 5. Tellico Reservoir smallmouth bass length frequency by percent for the 2005 electrofishing sample (n=42).

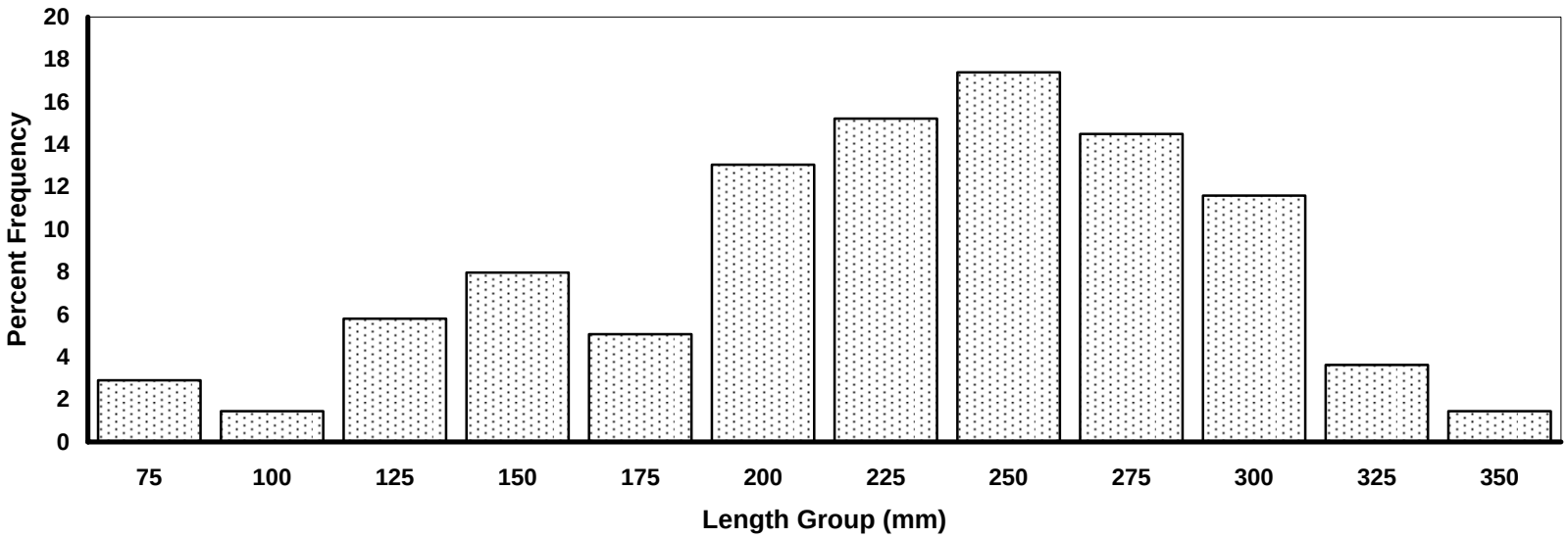


Figure 6. Tellico Reservoir spotted bass length frequency by percent for the 2005 electrofishing sample (n=138).

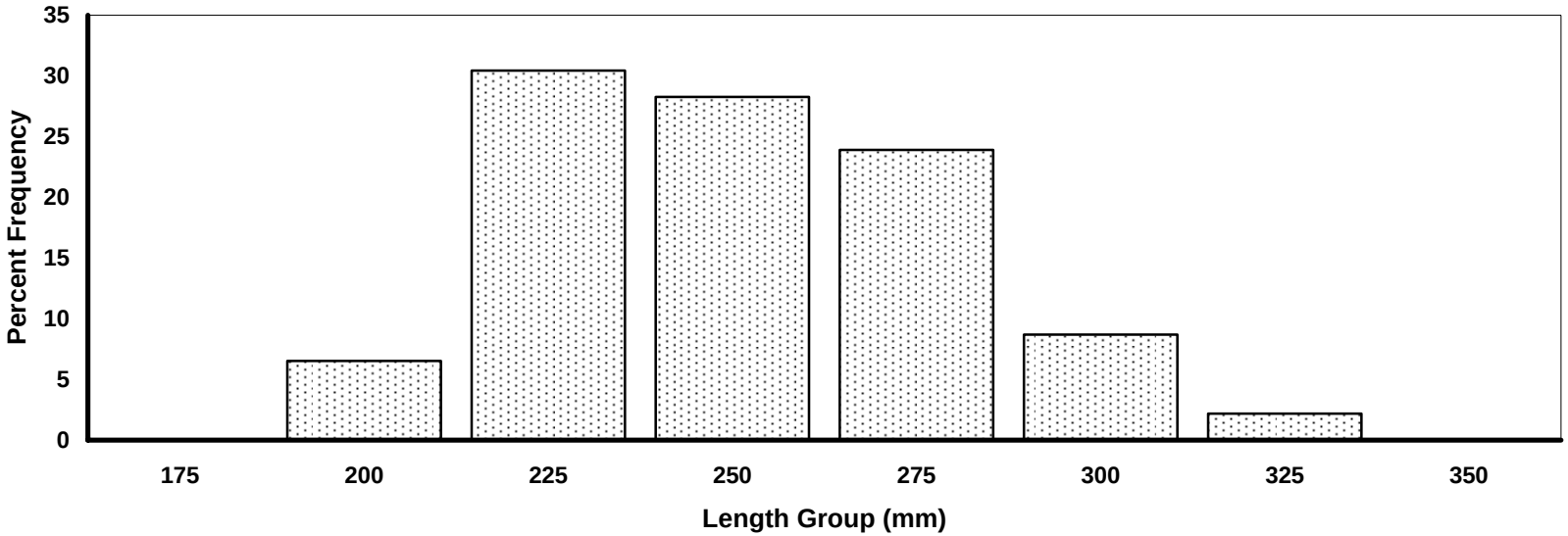


Figure 7. Tellico Reservoir white crappie length frequency by percent for the 2005 electrofishing sample (n=46).

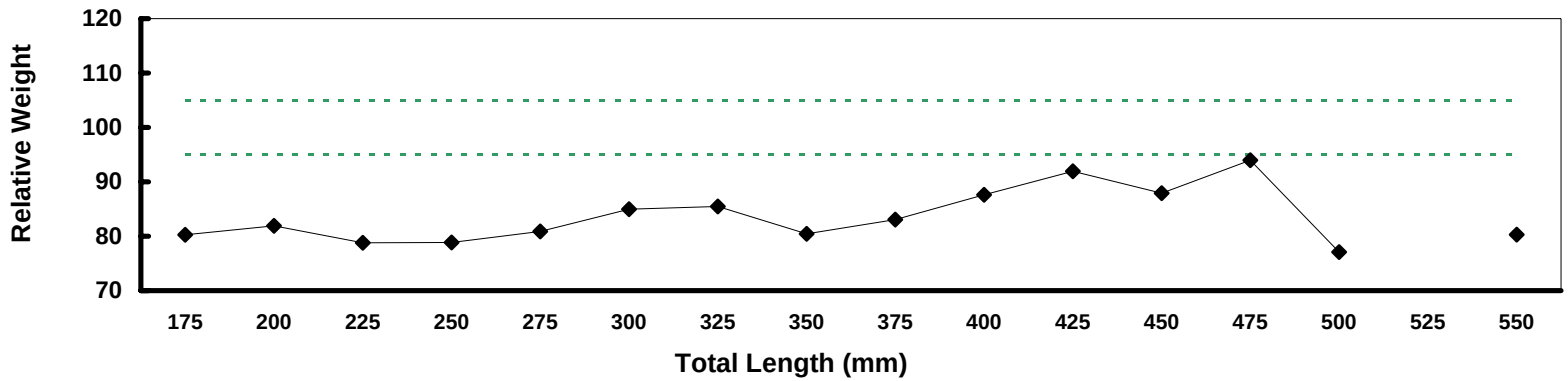


Figure 8. Tellico Reservoir largemouth bass mean relative weight values from the 2005 electrofishing sample (n=183).

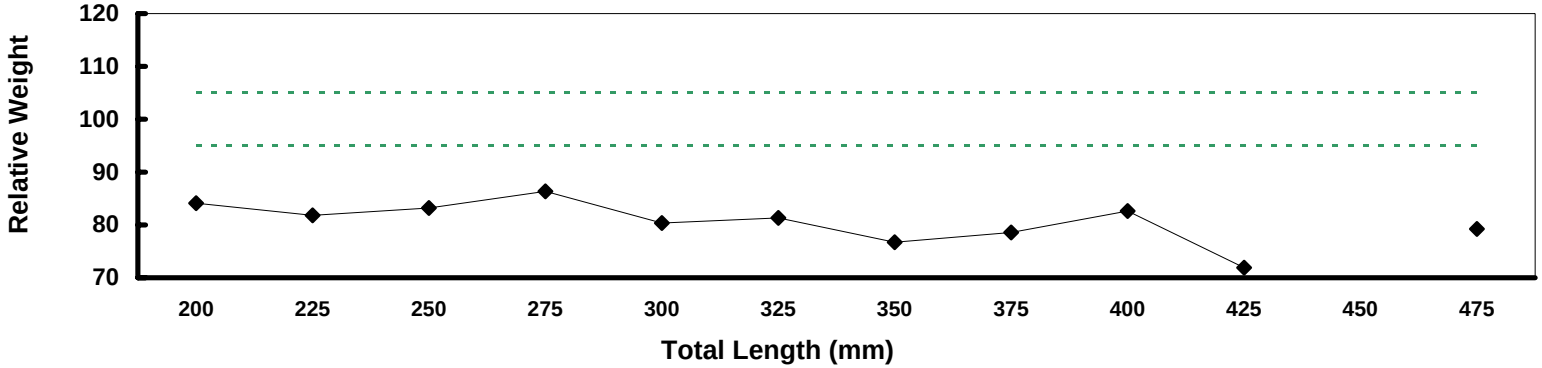


Figure 9. Tellico Reservoir smallmouth bass mean relative weight values from the 2005 electrofishing sample (n=38).

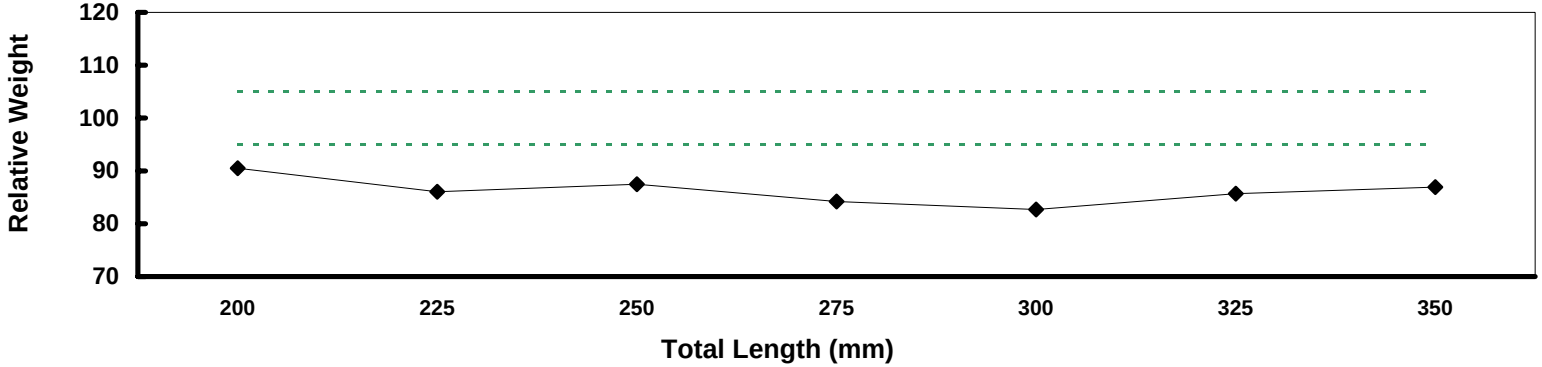


Figure 10. Tellico Reservoir spotted bass mean relative weight values from the 2005 electrofishing sample (n=102).

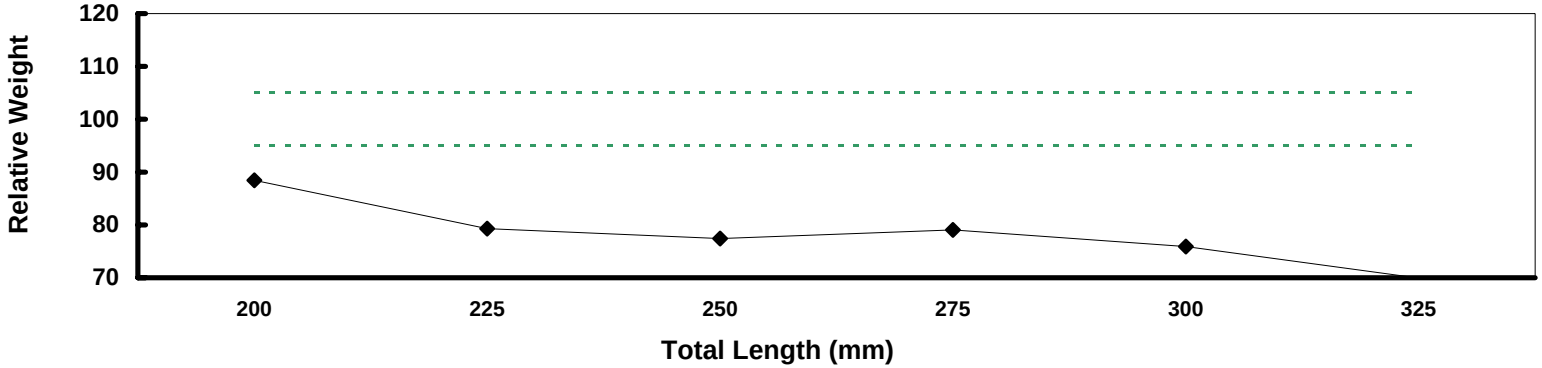


Figure 11. Tellico Reservoir white crappie mean relative weight values from the 2005 electrofishing sample (n=46).

Figure 12. DO - Tellico - LT RM 03 - July 12, 2005

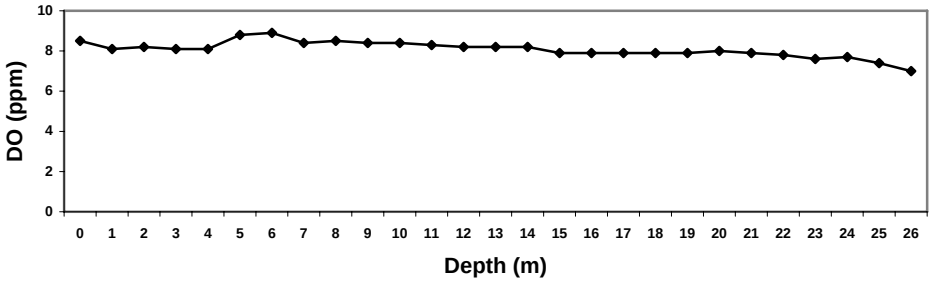


Figure 13. Temp - Tellico - LT RM 03 - July 12, 2005

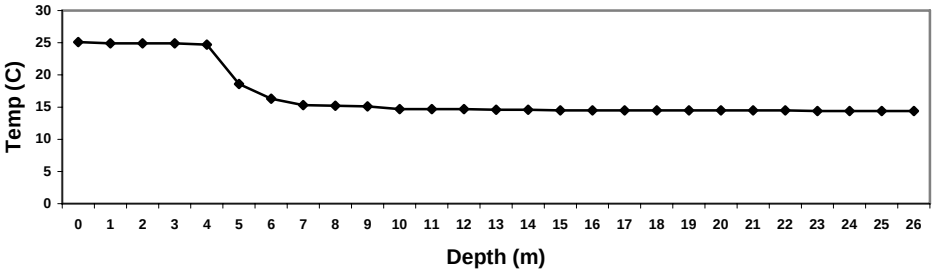


Figure 14. DO - Tellico - LT RM 18 - July 12, 2005

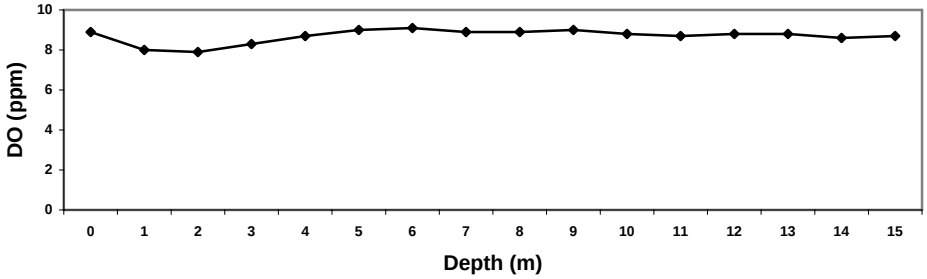


Figure 15. Temp - Tellico - LT RM 18 - July 12, 2005

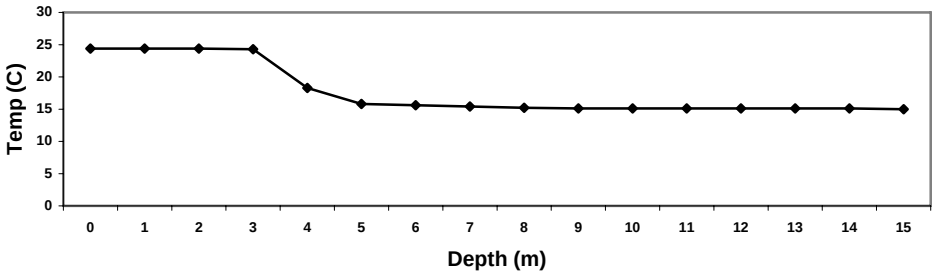


Figure 16. DO - Tellico - LT RM 25 - July 12, 2005

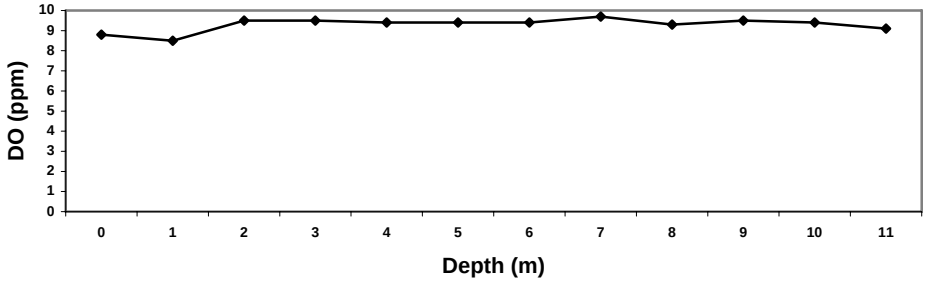


Figure 17. Temp - Tellico - LT RM 25 - July 12, 2005

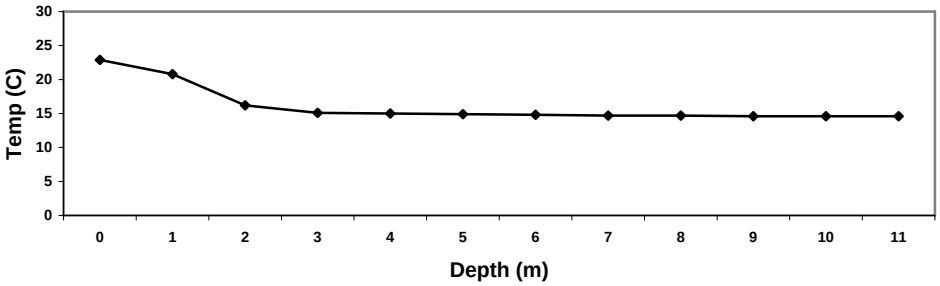


Figure 18. DO - Tellico - Tellico RM 04 - July 12, 2005

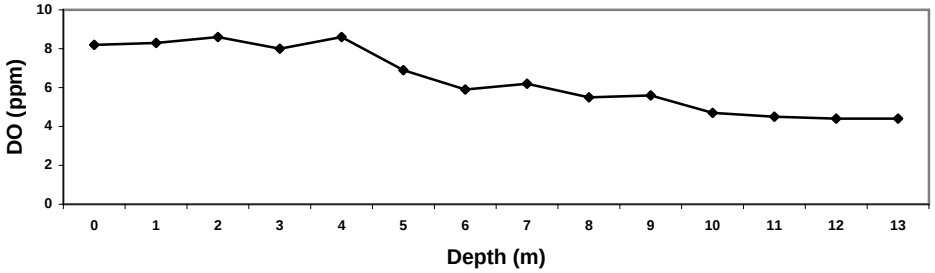


Figure 19. Temp - Tellico - Tellico RM 04 - July 12, 2005

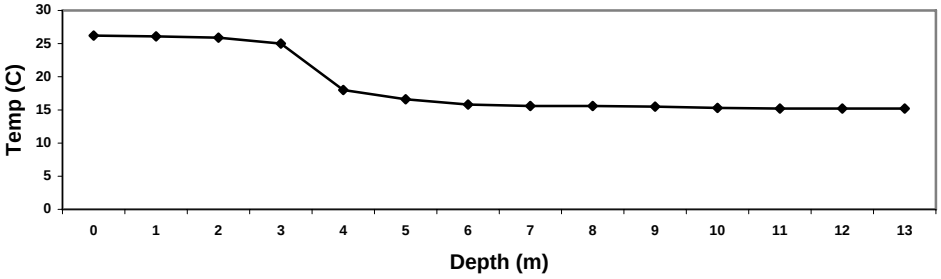


Figure 20. DO - Tellico - LT RM 03 - Aug 5, 2005

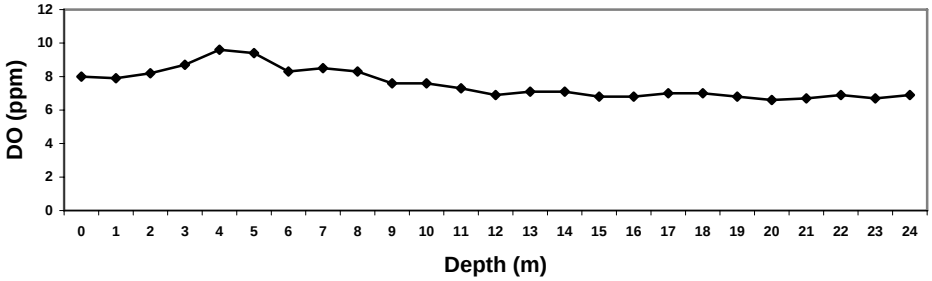


Figure 21. Temp - Tellico - LT RM 03 - Aug 5, 2005

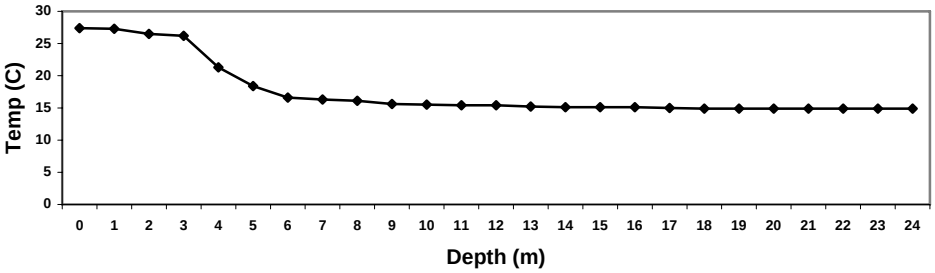


Figure 22. DO - Tellico - LT RM 18 - Aug 5, 2005

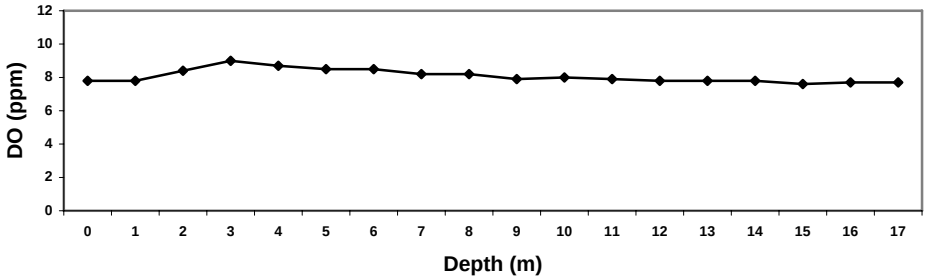


Figure 23. Temp - Tellico - LT RM 18 - Aug 5, 2005

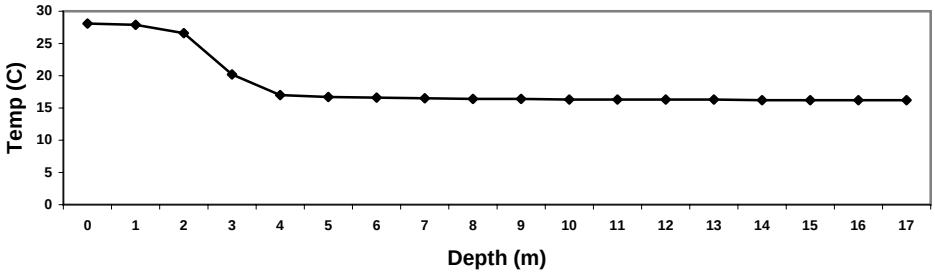


Figure 24. DO - Tellico - LT RM 25 - Aug 5, 2005

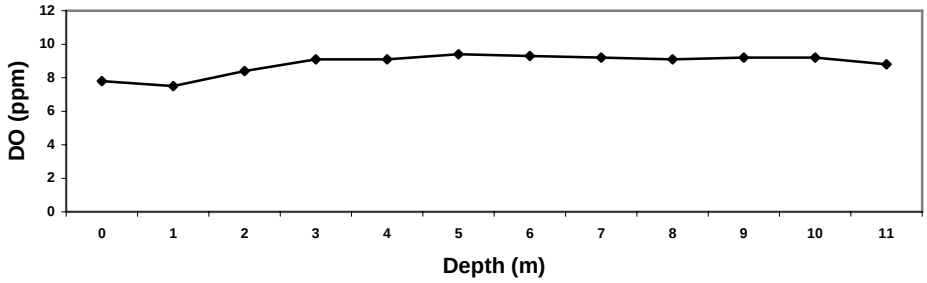


Figure 25. Temp - Tellico - LT RM 25 - Aug 5, 2005

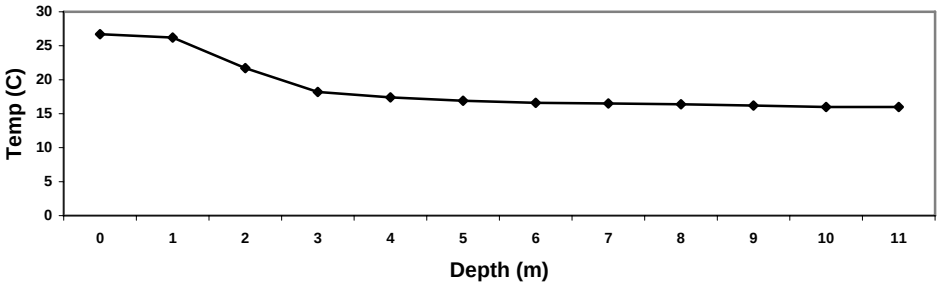


Figure 26. DO - Tellico - Tellico RM 04 - Aug 5, 2005

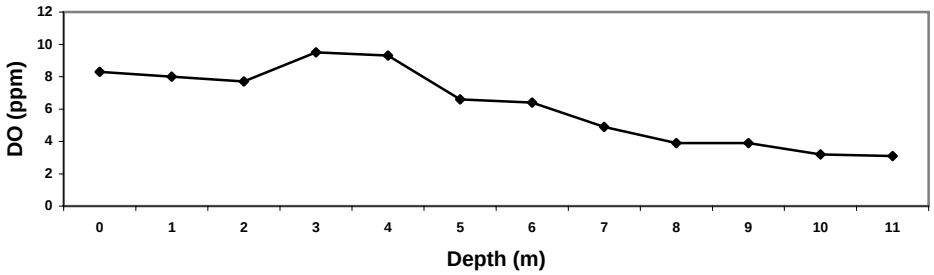
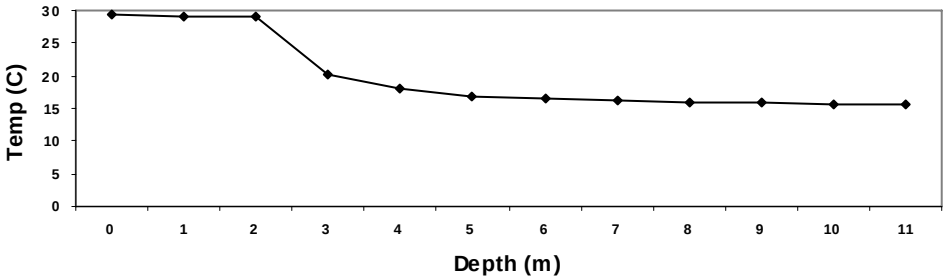


Figure 27. Temp - Tellico - Tellico RM 04 - Aug 5, 2005



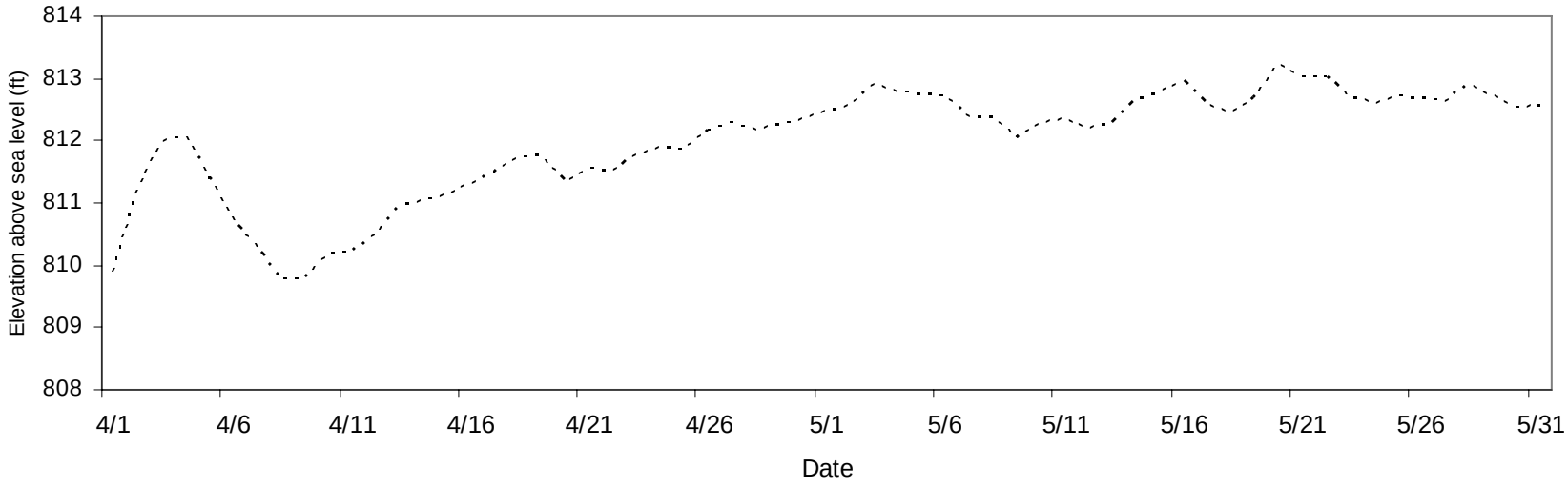


Figure 28. April and May water levels in Tellico Reservoir in 2005 (TVA data).