South Holston Reservoir

Annual Report 2006

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Largemouth Bass

Population Parameter	Annual Rating	Measure	Gear	Value
Recruitment	Fatr	Sub-stock CPUE	Electrofishing	2.2 fish/hr.
*Growth**	*Good*	*Mean TL at Age-3*	*Electrofishing*	*361 mm*
	Good	RSD-P (380 mm)	Electrofishing	44 %
Density	Good	CPUE $\geq$ Stock Size (203 mm)	Electrofishing	10.4 fish/hr.
	N/A	CPUE $\geq$ Minimum Size Limit	Electrofishing	No limit
*Mortality**	*Low*	*Total Mortality (Z)*	*Electrofishing*	*22%*
Angling Pressure	Good	Fishing Effort (hours)	Creel Survey	66,909**
Fishing Success	Fair	Angler Catch Rate	Creel Survey	0.26**
Value of Fishery	Good	Trip Expenditures	Creel Survey	$134,640**

** - Based on a 2000 data set.*
** Any Black Bass

Fishery Forecast:
Although densities of largemouth bass in South Holston Reservoir are not very high, when compared to other reservoirs, the percentage of larger fish in the population is very good. Also, the percentage of largemouth bass in South Holston over 381 mm (15 inches) has been over 40 percent since 1994, which indicates steady recruitment into the larger size classes. These two factors indicate a quality and stable fishery which should remain that way in 2007.

Management Recommendations:
No change to the current regulation is recommended.

Smallmouth Bass

Population Parameter	Annual Rating	Measure	Gear	Value
Recruitment	Fair	Sub-stock CPUE	Electrofishing	2.4 fish/hr.
*Growth**	*Good*	*Mean TL at Age-3*	*Electrofishing*	*324 mm*
	Fair	RSD-P (350 mm)	Electrofishing	29 %
Density	Fair	CPUE $\geq$ Stock Size (178 mm)	Electrofishing	8.2 fish/hr.
	N/A	CPUE $\geq$ Minimum Size Limit	Electrofishing	No limit
*Mortality**	*Moderate*	*Total Mortality (Z)*	*Electrofishing*	*48%*
Angling Pressure	Good	Fishing Effort (hours)	Creel Survey	8495
Fishing Success	Fair	Angler Catch Rate	Creel Survey	0.19
Value of Fishery	Good	Trip Expenditures	Creel Survey	$12,400

* *Based on a 2006 data set.*

Fishery Forecast:
The sub-stock catch remained stable in 2006 which will hopefully lead to good recruitment of these fish. The smallmouth bass fishery on South Holston has some of the highest percentages of quality and preferred sized smallmouth bass, when compared to the other reservoirs, in East Tennessee. However, we have seen a slight but steady decline in our data of the preferred sized (>350 mm) smallmouth bass on South Holston the last four years. Hopefully, things will improve in 2007, since there are good numbers of fish in the size classes below the 350 mm range.

Management Recommendations:
Continue to monitor the concern that some smallmouth bass anglers have for the quality of the fishery. We will evaluate imposing a size limit on smallmouth bass if we continue to see a decline in the number of smallmouth bass over 350 mm.

Black Crappie

Population Parameter	Annual Rating	Measure	Gear	Value
Recruitment	Poor	Sub-stock CPUE	Electrofishing	0.0 fish/hr.
*Growth**	*Good*	*Mean TL at Age-3*	*Electrofishing*	*254 mm*
	Good	RSD-P (254 mm)	Electrofishing	62 %
Density	Fair	CPUE $\geq$ Stock Size (130 mm)	Electrofishing	10.4 fish/hr.
	Fair	CPUE $\geq$ Minimum size Limit	Electrofishing	6.0 fish/hr.
*Mortality**	*Low*	*Total Mortality (Z)*	*Electrofishing*	*29%*
Angling Pressure	Good	Fishing Effort (hours)	Creel Survey	11,595**
Fishing Success	Fair	Angler Catch Rate	Creel Survey	0.12**
Value of Fishery	Good	Trip Expenditures	Creel Survey	$17,840**

** Based on a 2002 data set.*
** Any Crappie

Fishery Forecast:
The quality of the black crappie fishery should remain good. As usual, the percentage of harvestable size fish in the sample was good; however, the density of crappie in South Holston is low because of the low productivity of the reservoir.

Management Recommendations:
Maintain the current 15 fish, 254 mm (10-inch) length limit.

Rainbow Trout

Population Parameter	Annual Rating	Measure	Gear	Value
Angling Pressure	Fair	Fishing Effort (hours)	Creel Survey	1722
Fishing Success	Fair	Angler Catch Rate	Creel Survey	0.13
Value of Fishery	Fair	Trip Expenditures	Creel Survey	$2,460

Fishery Forecast:
The quality of the rainbow trout fishery should remain stable. Tennessee Technological University will be conducting a research project on trout species in South Holston Reservoir and we hope to learn a lot more about the size structure, age structure and recommended stocking rates in the near future.

Management Recommendations
None.

Stocking and Stocking Evaluations

Species	Number Stocked	Mark	Evaluation	# Fish / Net Night
Walleye	56,840	None	Gill Netting	TVA Sample
Lake Trout	75,645	fin clip	Creel	N/A
Rainbow Trout	42,308	fin clip	Creel	N/A
Brown Trout	0	None	Creel	N/A

Habitat Enhancement and Monitoring

Type of Work	Details	Date
Shoreline Stabilization		See table 10.
Shoreline Seeding		"
Aquatic Plants		"
Fish Attractors (Shallow Water)		"
Fish Attractors (Deep Water)		"
Smallmouth Spawning Benches		"
Stake Beds		"
Water Quality Monitoring	Temperature, pH, Conductivity, and D.O.	July, August, September

Tables

Table 1. South Holston Reservior study area morphometric, physical, and chemical characteristics.

	Measurement	
Parameter	***English***	***Metric***
Surface Area	7,580 ac	3,068 ha
Drainage Area	703 sq mi	1,822 sq km
Full Pool Elevation	1,729 ft msl	527 m msl
Mean Annual Fluctuation	39 feet	12 m
Shoreline Distance	182 mi	293 km
Maximum Depth	245 ft	75 m
Thermocline Depth	13 ft	4.0 m
Mean Chlorophyll (Forebay)	4.2 ppm	4.2 mg/l
Shoreline Development	14%	
Trophic Status (Forebay)	Mesotrophic	
Trophic Index, Carlson (1977)	44.7	
Hydraulic Retention Time	340 days	
Reservoir Age	56 years	

Table 2. South Holston Reservoir stocking records 1997– 2006.

Species	Date	Rate (per acre)	Mean Length	Number
Walleye	May 1997	5.0	1.5	37,900
	May 1998*	5.2	1.5	39,182
	May 1999	5.2	1.0 – 3.0	39,508
	May 2000*	19.3	1.5	146,000
	May 2001*	19.7	1.0 – 1.25	149,700
	May 2002	6.8	1.25 – 1.6	51,411
	May 2002*	6.3	1.0 – 2.0	47,553
	May 2003	2.2	1.25 – 2.25	17,047
	May 2003	23.6		179,033
	May 2004	6.2	1.00 – 1.25	46,725
	May 2005	5.4	1.0 – 1.1	41,199
	May 2006	7.5	1.0 – 2.0	56,840
Blacknose	Nov.-Dec. 1997	15.0	2.50	113,469
Black Crappie	Nov. 1998	16.1	2.50	121,921
Lake Trout	Jan. 2006	10.0	5.0 – 6.0	75,645
Rainbow Trout	1997	4.6	Adult	34,977
	1998	7.0	Adult	52,724
	1999	5.3	Adult	40,533
	2000	5.4	Adult	40,627
	2001	4.9	Adult	37,502
	2002	6.5	Adult	49,003
	2003	5.3	Adult	40,576
	2004	5.3	Adult	40,210
	2005	4.2	Adult	31,712
	2006	5.6	9.0 – 10.0	42,308
Brown Trout	2001	1.3	Fingerling	10,092
	2002	1.3	Fingerling	10,156
	2003	1.3	Fingerling	10,031
	2004	0.0		0
	2005	2.6	Fingerling	20,012
	2006	0.0		0

* - fished stocked by VDGIF

Table 3. Number of species collected by gear type in South Holston Reservoir, 2006. Effort is represented in hours for electrofishing and net nights for gill netting

	Summer Gill Netting			Spring Electrofishing			Winter Gill Netting		
Species	No.	CPUE (# fish / net night)	Total Effort	No.	CPUE (# fish / hour)	Total Effort	No.	CPUE (# fish / net night)	Total Effort
Largemouth Bass	X	X	X	63	12.6	5	X	X	X
Smallmouth Bass	X	X	X	53	10.6	5	X	X	X
Spotted Bass	X	X	X	0	0.0	5	X	X	X
Black Crappie	X	X	X	52	10.4	5	X	X	X
Black-Nose Crappie	X	X	X	0	0.0	5	X	X	X
White Crappie	X	X	X	0	0.0	5	X	X	X
Walleye	X	X	X	23	4.6	5	199	8.3	24
White Bass	X	X	X	0	0	5	X	X	X
Gizzard Shad	38	1.9	20	X	X	X	X	X	X
Threadfin Shad	436	21.8	20	X	X	X	X	X	X
Alewife	8	0.4	20	X	X	X	X	X	X

X = non targeted species

Table 4. Black bass catch, mean CPUE, and RSD by incremental category for target species by gear in South Holston Reservoir 1998 – 2006.

				RSD Substock			RSD Stock - Quality			RSD Quality - Preferred			RSD Preferred-Memorable			RSD Memorable-Trophy			RSD Trophy			PSD	Total	
Species	Year	Gear	Number of Samples	#	CPUE	RSD	#	CPUE	RSD	#	CPUE	RSD	#	CPUE	RSD	#	CPUE	RSD	#	CPUE	RSD	%	#	CPUE
Largemouth	1998	EL	22	4	0.6	**3**	46	8	**37**	20	3.5	**16**	50	8.6	**40**	5	0.8	**4**				**60**	130	21.6
Bass	1999	EL	18	6	1.3	**5**	25	5.6	**22**	34	7.6	**29**	54	12	**47**	3	0.7	**3**				**79**	122	27.1
	2000	EL	18	9	2	**13**	11	2.4	**18**	17	3.7	**28**	29	6.2	**48**	3	0.6	**5**				**81**	69	15
	2001	EL	17	11	2.5	**14**	21	4.8	**30**	19	4.4	**27**	28	6.4	**40**	2	0.5	**3**				**70**	81	18.5
	2002	EL	14	13	3.6	**22**	12	3.2	**26**	15	4.1	**33**	19	5.3	**41**	0	0	**0**				**74**	59	16.2
	2003	EL	20	5	1	**5**	32	6	**32**	14	2.6	**14**	49	9	**49**	4	1	**4**				**67**	104	19.3
	2004	EL	20	9	1.7	**9**	15	2.9	**17**	28	5.4	**33**	37	7.1	**43**	6	1.2	**7**	0	0	**0**	**83**	95	18.4
	2005	EL	20	7	1.4	**9**	21	4.1	**31**	12	2.4	**18**	35	6.9	**51**	0	0	**0**	0	0	**0**	**69**	75	14.8
	2006	EL	20	11	2.2	**17**	10	2	**19**	19	3.8	**37**	22	4.4	**42**	1	0.2	**2**	0	0	**0**	**81**	63	12.56
Smallmouth	1998	EL	22	30	5.2	**19**	31	5.4	**24**	59	10	**46**	31	5.4	**24**	9	1.5	**7**				**77**	160	27.7
Bass	1999	EL	18	19	4.2	**14**	35	7.8	**30**	37	8.2	**32**	27	6	**23**	17	3.8	**15**				**70**	135	30
	2000	EL	18	23	5	**17**	31	6.7	**27**	27	5.8	**24**	22	6.2	**19**	29	6.2	**26**				**69**	136	29.3
	2001	EL	17	7	1.6	**5**	13	2.9	**10**	32	7.3	**25**	42	9.6	**33**	36	8.2	**29**				**87**	133	30.17
	2002	EL	14	3	0.8	**7**	10	2.7	**24**	7	2	**17**	15	4.3	**37**	8	2.3	**20**	1	0.3	**2**	**74**	44	12.3
	2003	EL	20	1	0.2	**2**	13	2.4	**28**	9	1.7	**20**	11	2.1	**24**	10	1.9	**22**				**66**	47	8.8
	2004	EL	20	1	0.2	**1**	26	5	**29**	24	4.6	**27**	19	3.7	**21**	17	3.3	**19**	0	0	**0**	**67**	91	17.5
	2005	EL	20	13	2.5	**14**	29	5.7	**37**	19	3.7	**24**	18	3.5	**23**	10	2	**13**	2	0.4	**3**	**63**	91	17.8
	2006	EL	20	12	2.4	**23**	24	4.8	**59**	5	1	**12**	9	1.8	**22**	3	0.6	**7**	0	0	**0**	**41**	53	10.58

Table 5. Black crappie and Walleye catch, mean CPUE, and RSD by incremental category for target species by gear in South Holston Reservoir 1998 – 2006.

Species	Year	Gear	Number of Samples	RSD Substock			RSD Stock - Quality			RSD Quality - Preferred			RSD Preferred-Memorable			RSD Memorable-Trophy			RSD Trophy			**PSD**	Total	
				#	CPUE	RSD	#	CPUE	RSD	#	CPUE	RSD	#	CPUE	RSD	#	CPUE	RSD	#	CPUE	RSD	%	#	CPUE
Black Crappie	1998	EL	22	1	0.1	**3**	4	0.7	**11**	8	1.3	**22**	17	2.9	**50**	5	0.8	**14**				**86**	36	6
	1999	EL	18	0	0		0	0		24	5.3	**34**	41	9.1	**59**	5	1.1	**7**				**100**	70	15.6
	2000	EL	18	0	0		0	0		3	0.7	**14**	10	2.2	**48**	8	1.7	**38**				**100**	21	4.6
	2001	EL	17	1	0.2	**1**	15	3.4	**13**	26	5.9	**23**	54	12	**47**	19	4.3	**17**				**87**	115	26.3
	2002	EL	14	1	0.3	**4**	1	0.3	**5**	3	0.9	**14**	11	3.1	**50**	7	2	**32**				**96**	23	6.5
	2003	EL	20	0	0		2	0.4	**3**	12	2.1	**19**	22	4.1	**35**	27	5.1	**43**				**97**	63	11.7
	2004	EL	20	0	0	**0**	2	0.4	**6**	7	1.4	**20**	18	3.5	**51**	8	1.5	**23**	0	0	**0**	**94**	35	6.8
	2005	EL	20	0	0	**0**	2	0.4	**5**	8	1.6	**19**	12	2.4	**28**	21	4.1	**49**	0	0	**0**	**96**	43	8.5
	2006	EL	20	0	0	**0**	7	1.4	**13**	13	2.6	**25**	20	4	**38**	12	2.4	**23**	0	0	**0**	**87**	52	10.4
Walleye (Winter Gill Net)	1998	GN	6	0			0			56	9.7	**75**	19	3.2	**25**	0	0		0			**100**	77	12.8
	1999	GN	9	0			1	0.1	**1**	53	5.9	**60**	35	3.9	**48**	0	0					**100**	89	9.8
	2000	GN	23	0			2	0.1	**1**	79	3.4	**48**	80	3.5	**49**	3	0.1	**2**	1	0	**1**	**99**	164	7.1
	2001	GN*																						
	2002	GN	36	1	0		8	0.2	**2**	190	5.3	**56**	130	3.6	**39**	9	0.3	**3**				**98**	338	9.4
	2003	GN																						
	2004	GN	14	1	0.1	**1**	5	0.4	**5**	47	3.4	**47**	46	3.3	**46**	2	0.1	**2**	0	0	**0**	**95**	101	7.21
	2005	GN																						
	2006	GN	24	3	0.1	**2**	17	0.7	**9**	105	4.4	**54**	72	3	**37**	2	0.1	**1**	0	0	**0**	**91**	199	8.29

Table 6. Largemouth bass mean relative weights (Wr) in South Holston Reservoir, spring 2006.

Length Group	Mean Wr	Std. Error	N
150	90.940	3.900	4
175			0
200	83.319		1
225			0
250	94.540	3.827	3
275	91.969	1.833	6
300	100.839		1
325	95.003	4.030	5
350	91.931	2.553	11
375	90.601	2.511	5
400	92.392	3.729	6
425	82.409	18.941	5
450	93.041	1.925	5
475	90.114	10.481	3
500			0
525	88.997		1
		Total =	**56**

Table 7. Smallmouth bass mean relative weights (Wr) in South Holston Reservoir, spring 2006.

Length Group	Mean Wr	Std. Error	N
150	75.615	2.797	5
175	81.258	1.695	9
200	87.780	3.377	6
225	93.075	4.449	8
250	91.061	3.453	6
275	98.745	6.281	5
300	91.124	1.987	9
325	91.896	2.861	7
350	89.456	3.864	5
375	90.758	2.618	6
400	89.649	2.644	5
425	93.622	6.318	3
450	83.885	5.844	4
475	86.002	7.114	3
500	94.599	5.924	3
525	95.669		1
550			
		Total =	**85**

Table 8. Black crappie mean relative weights (Wr) in South Holston Reservoir, spring 2006.

Length Group	Mean Wr	Std. Error	N
150	98.782	4.574	3
175	98.321	3.180	4
200	98.102	5.492	6
225	102.232	4.486	7
250	102.836	3.651	8
275	93.469	1.968	12
300	89.822	2.684	5
325	88.098	3.319	3
350	91.766	1.238	4
		Total =	**52**

Table 9. Geometric means of the clupeid catch in experimental gill nets from South Holston 2001 - 2006.

Species	2001	2002	2003	2004	2005	2006
Threadfin Shad	9.4	29.7	5.5	4	3.9	2.7
Gizzard Shad	4.2	3.2	4	2.2	3.1	1.3
Alewife	42.4	3.5	8.2	1.8	0.2	0.2

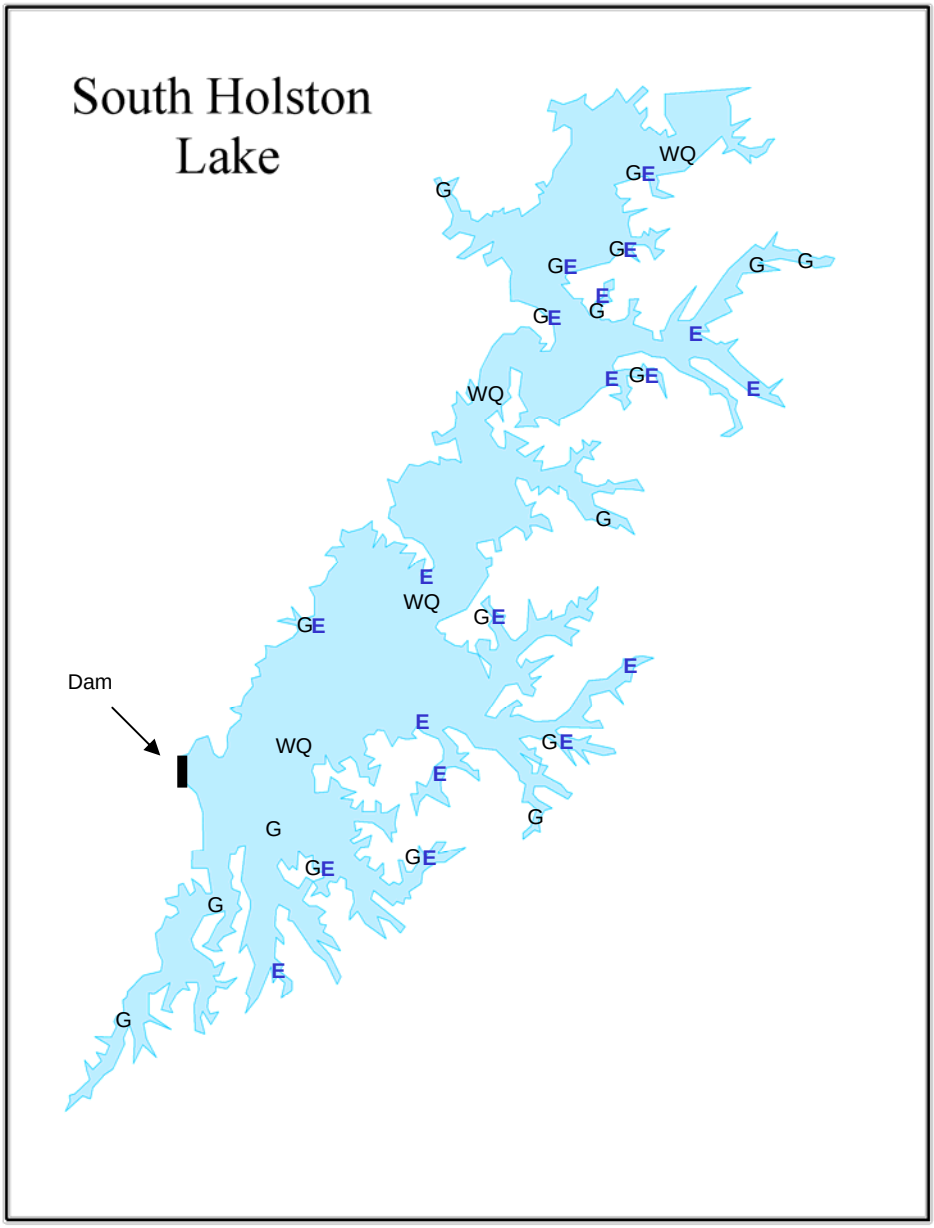
Table 10. South Holston Reservoir fish habitat enhancement summary for 2006.

	New Sites			Renovated Sites			Expanded Sites		
Location	**Number**	**Units**	**Acres**	**Number**	**Units**	**Acres**	**Number**	**Units**	**Acres**
SFHRM 60.50 L*				1	400	8.00			
SFHRM 60.75 L*				1	198	3.96			
Total	***0***	***0***	***0***	***2***	***598***	***12***	***0***	***0***	***0***

*Christmas Trees

Figures

Figure 1. South Holston Reservoir with sites sampled in 2006.



E = Spring Electrofishing
WQ = Water Quality
G = Gillnet

Largemouth Bass

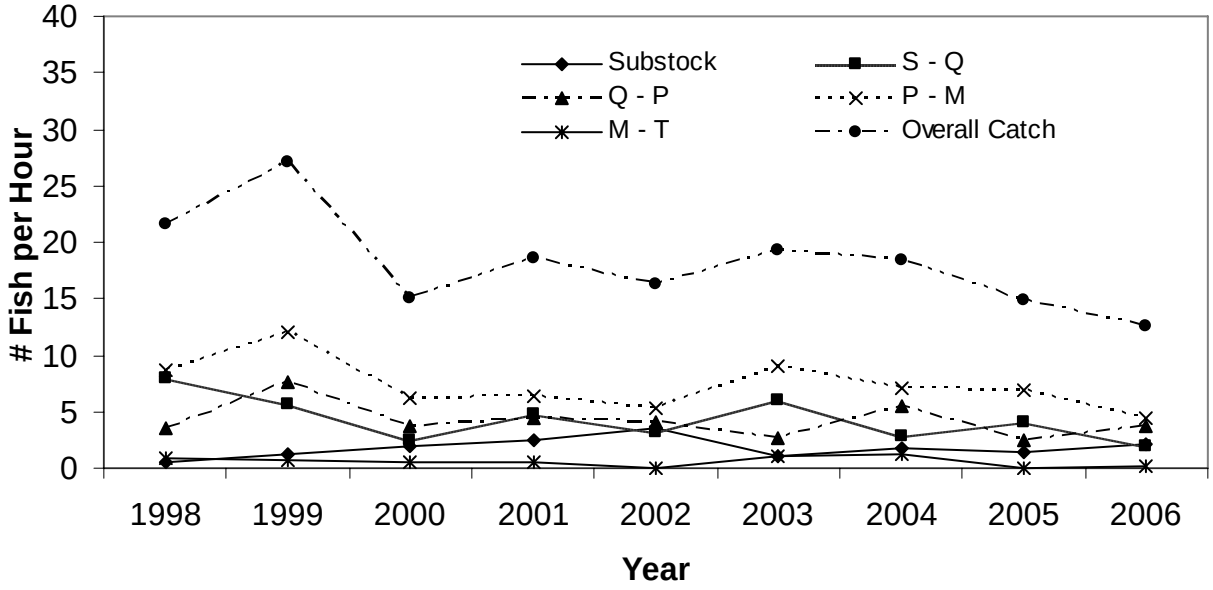


Figure 2. Largemouth bass CPUE by incremental length category in South Holston Reservoir, 1998 - 2006.

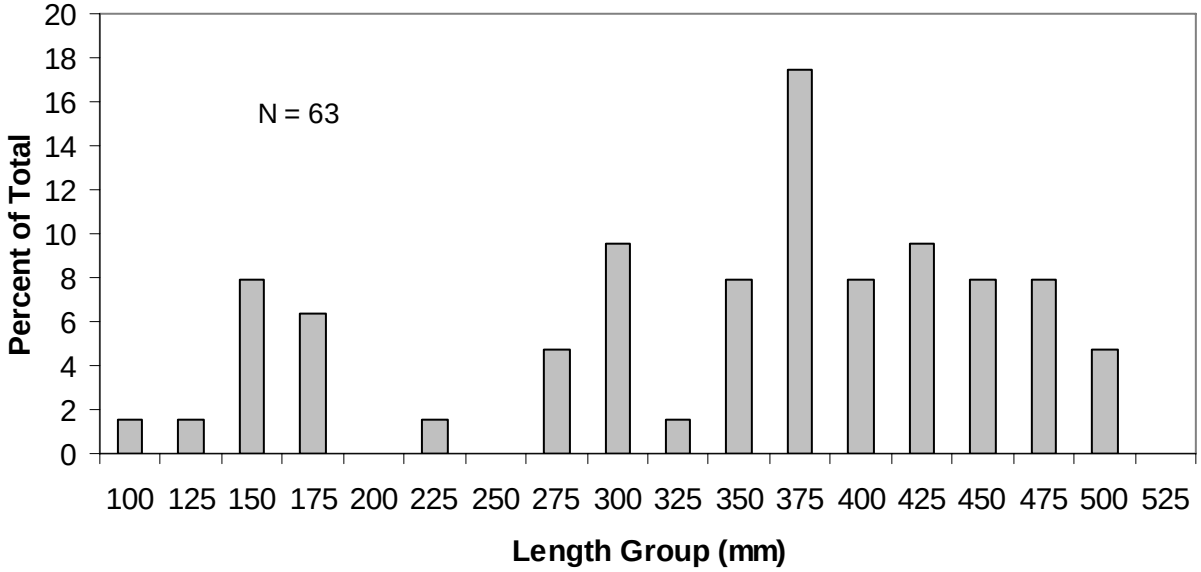


Figure 3. Largemouth bass length frequency by percent in South Holston Reservoir, spring 2006.

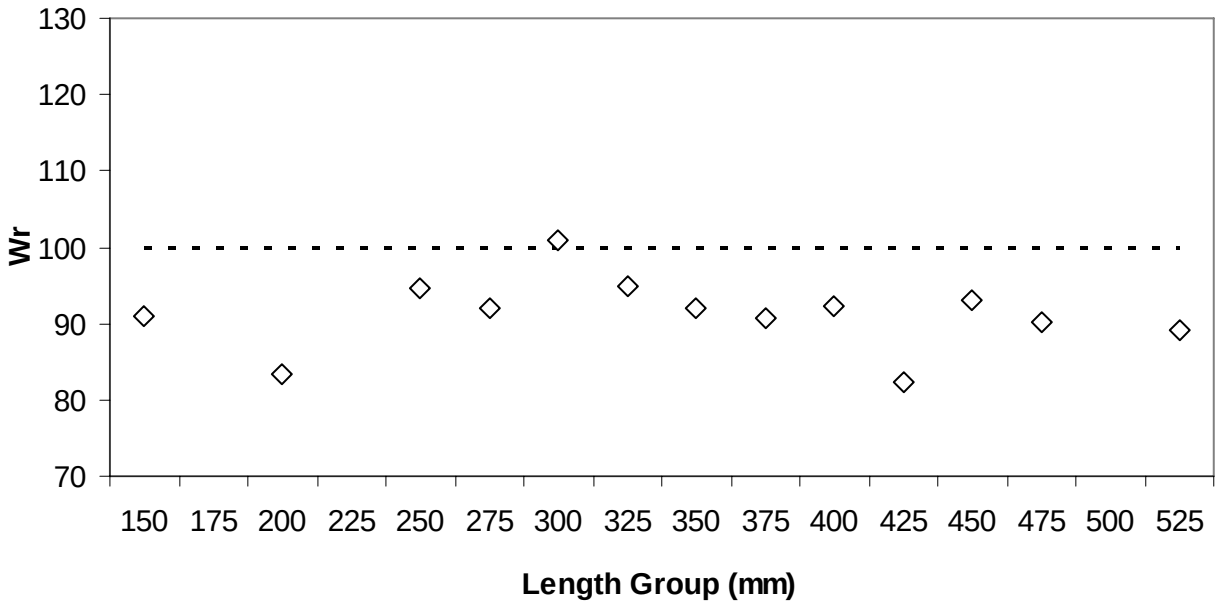


Figure 4. Largemouth bass mean relative weights (Wr) in South Holston Reservoir, spring 2006.

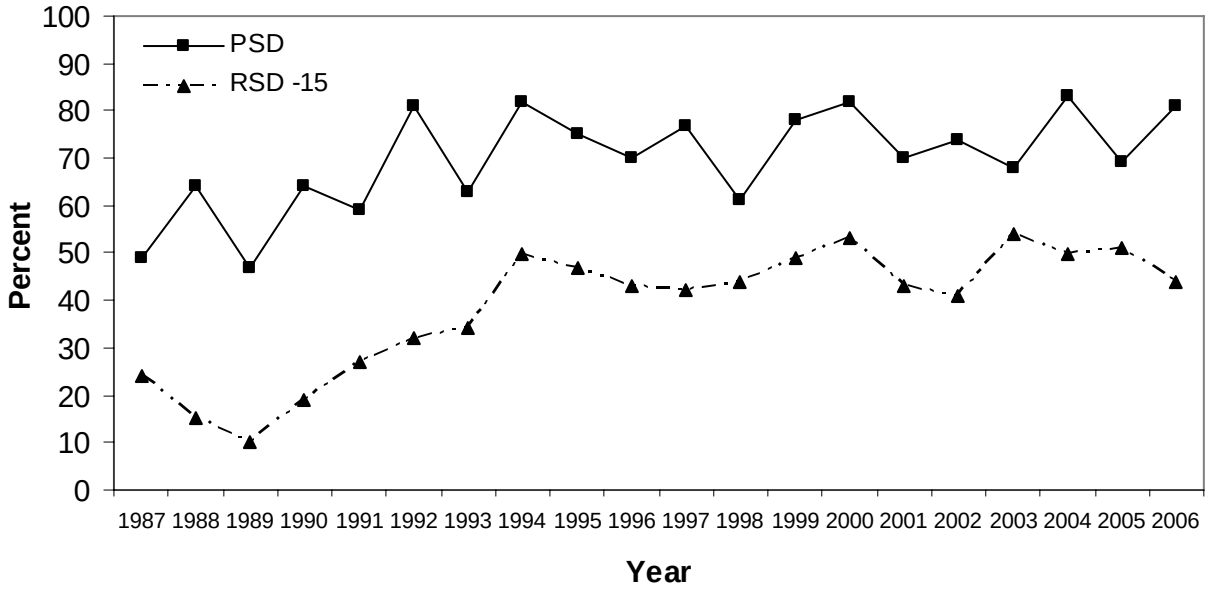


Figure 5. Largemouth bass traditional PSD and RSD -15 values in South Holston Reservoir 1987 – 2006.

Smallmouth Bass

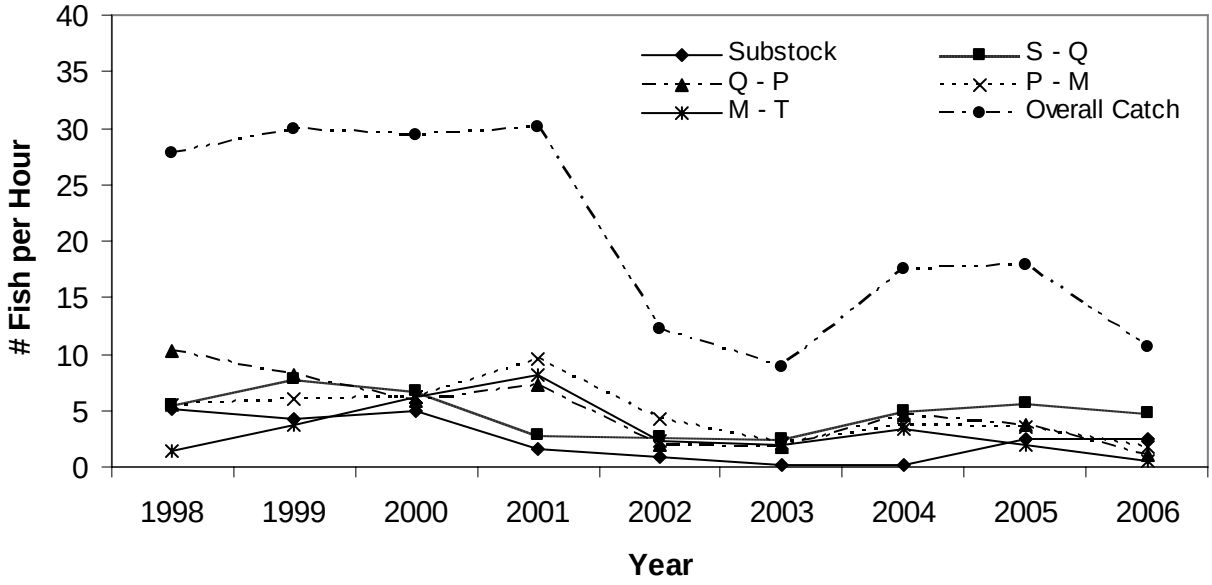


Figure 6. Smallmouth bass CPUE by incremental length category in South Holston Reservoir, 1998 - 2006.

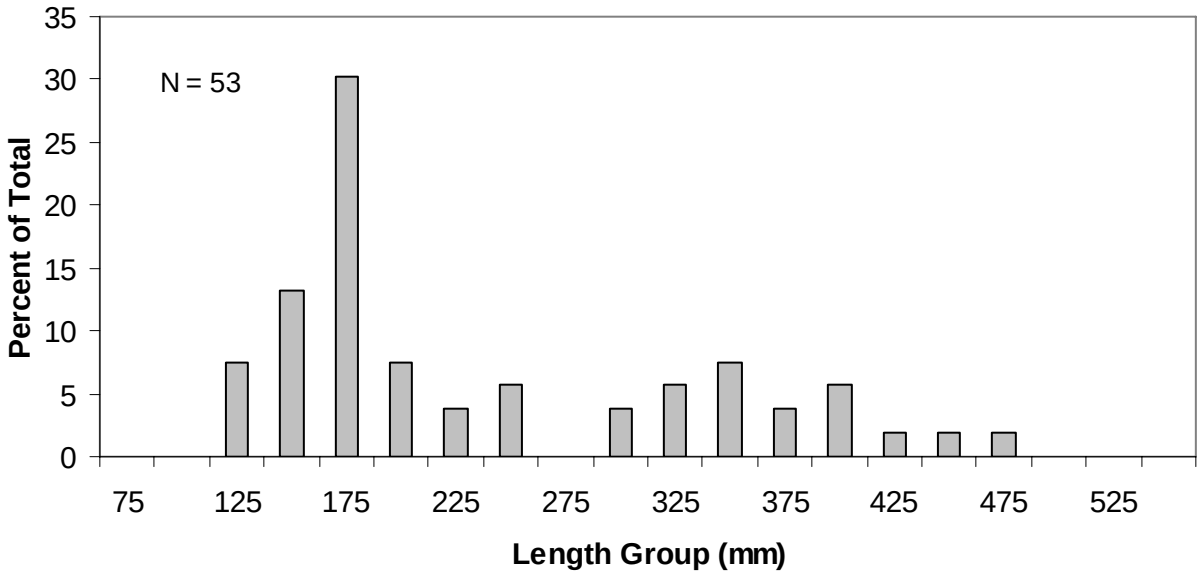


Figure 7. Smallmouth bass length frequency by percent in South Holston Reservoir, spring 2006.

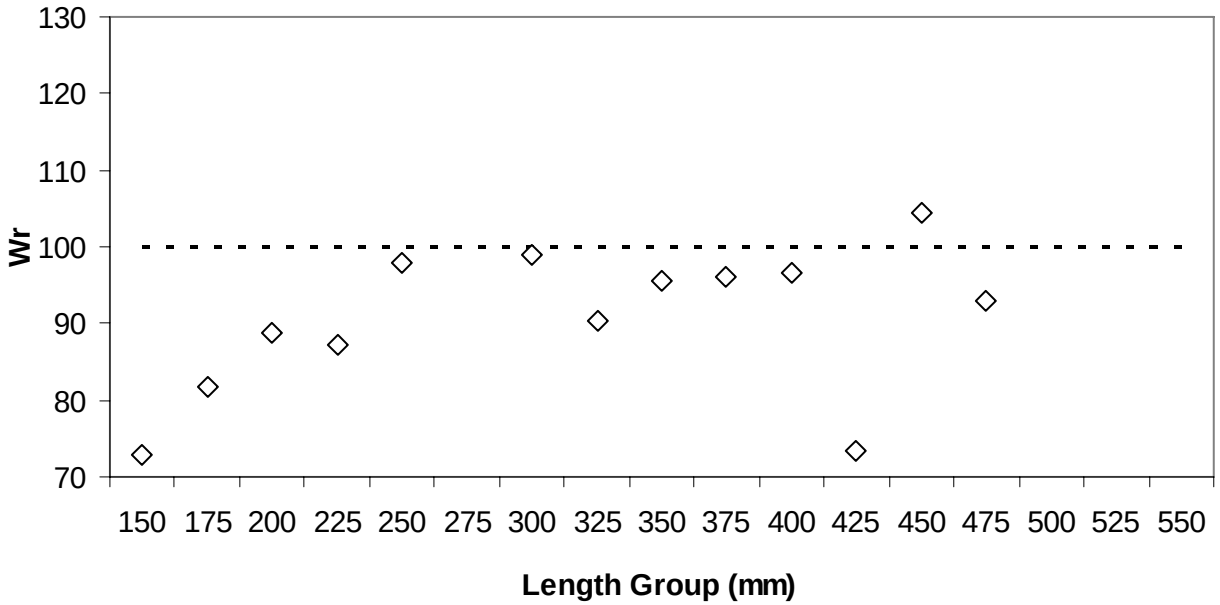


Figure 8. Smallmouth bass mean relative weights (Wr) in South Holston Reservoir, spring 2006.

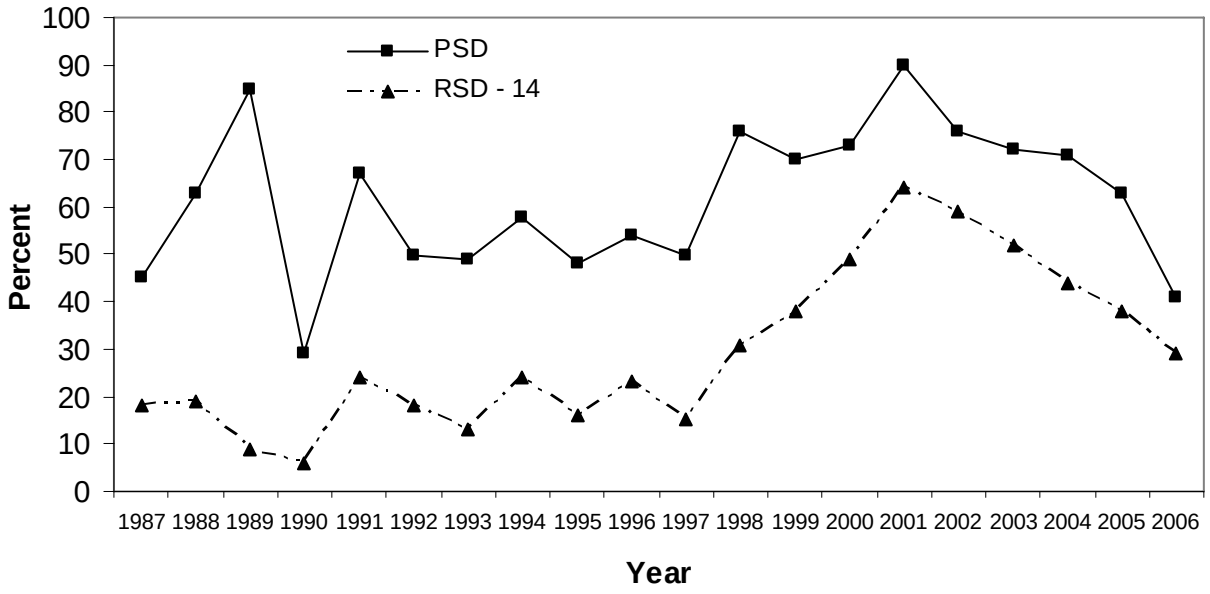


Figure 9. Smallmouth bass traditional PSD and RSD - 14 values in South Holston Reservoir 1987 – 2006.

Black Crappie

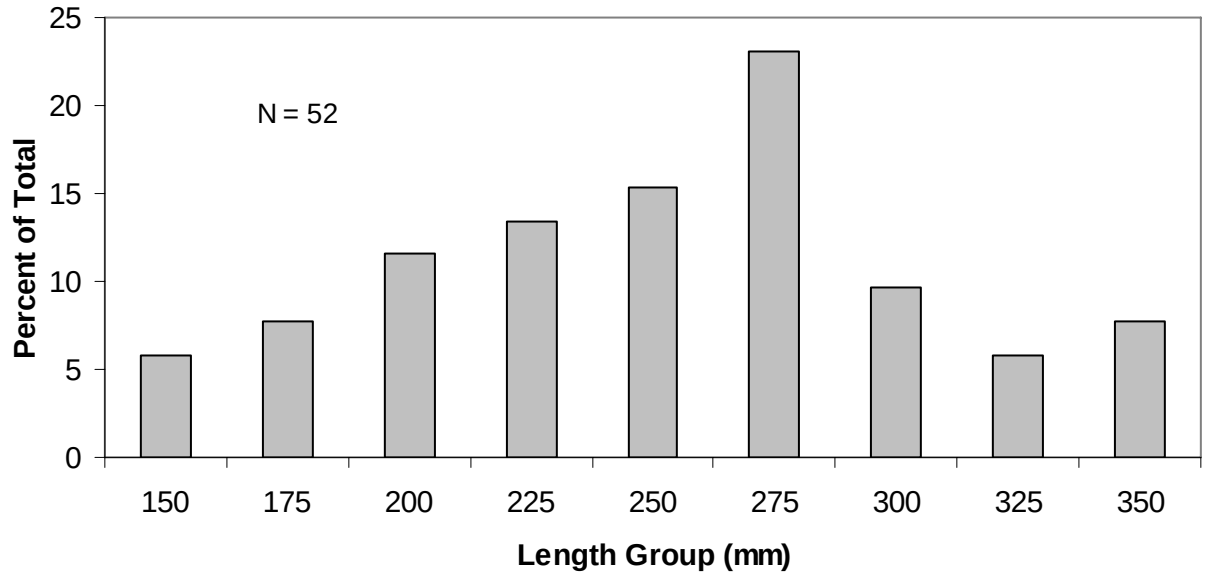


Figure 10. Black crappie length frequency by percent in South Holston Reservoir, spring 2006.

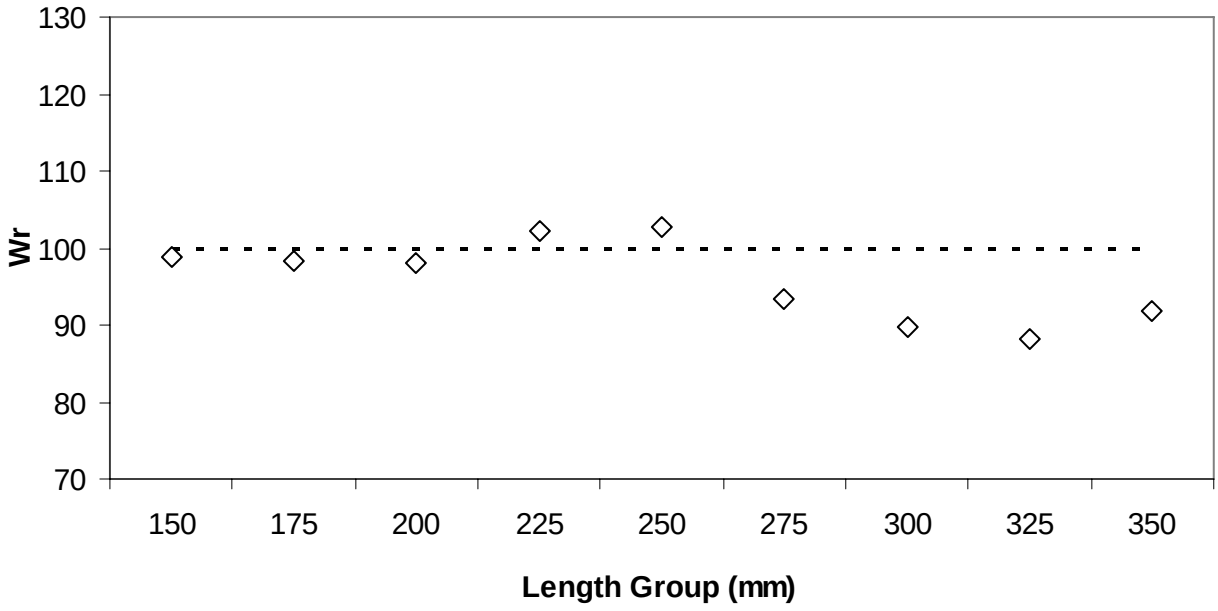


Figure 11. Black crappie mean relative weights (Wr) in South Holston Reservoir, spring 2006.

Clupeid Species

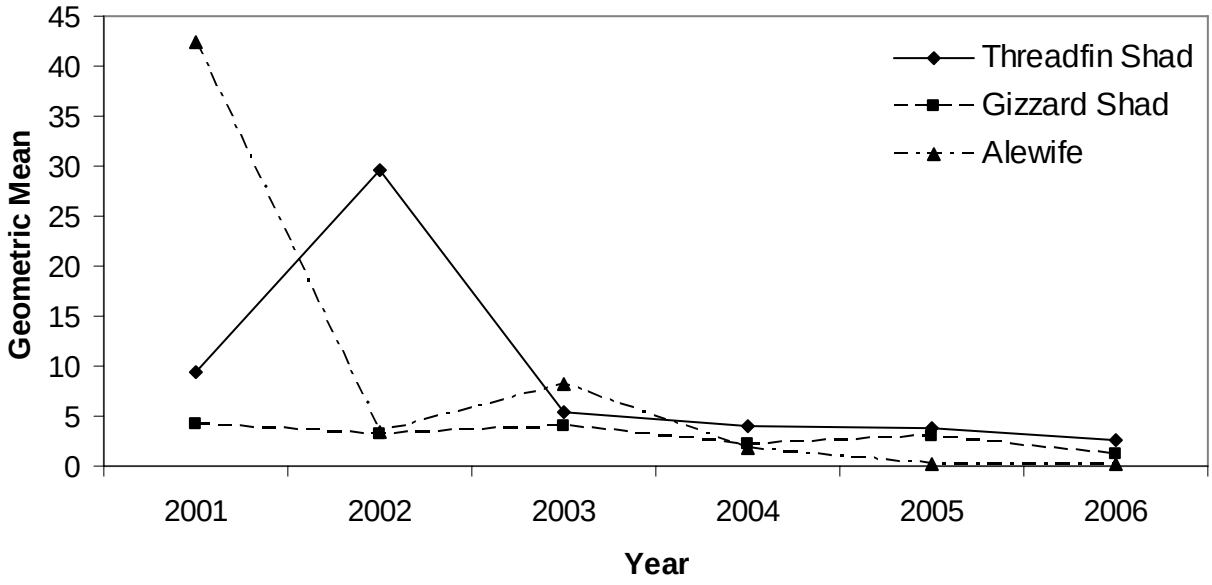


Figure 12. Geometric means of clupeid catch in surface set - experimental gill nets in South Holston Reservoir, 2001 - 2006.

Appendix A
Water Quality

Table A1. South Holston Reservoir, water quality summary at SFHRM 51, July 6, 2006.

Depth (m)	Temp ©	Cond	DO	Site	Secchi (m)	Time
0	26.4	320	10.0	HRM51		1020
1	26.4	322	10.0			
2	26.4	323	10.0			
3	26.4	323	10.0			
4	26.4	323	10.1			
5	23.8	324	16.5			
6	21.8	330	14.5			
7	19.7	327	13.1			
8	18.7	322	13.1			
9	17.6	325	9.4			
10	17.2	324	7.7			
11	16.4	324	6.4			
12	15.6	326	6.0			
13	15.1	325	5.5			
14	14.4	327	5.5			
15	14.0	327	5.5			
16	12.9	329	5.9			
17	12.2	330	6.2			
18	11.7	330	6.6			
19	11.1	329	7.0			
20	10.4	328	7.5			
21	9.9	327	7.8			
22	9.5	326	8.0			
23	9.0	326	8.3			
24	8.7	325	8.5			
25	8.5	323	8.5			
26	8.3	323	8.5			
27	8.1	322	8.6			
28	7.9	321	8.6			
29	7.8	321	8.6			
30	7.7	321	8.6			

Table A2. South Holston Reservoir, water quality summary at SFHRM 55, July 6, 2006.

Depth (m)	Temp ©	Cond	DO	Site	Secchi (m)	Time
0	26.6	307	9.6	HRM55	3.0	1103
1	26.6	316	9.7			
2	26.6	318	9.7			
3	26.6	319	9.7			
4	25.8	326	10.8			
5	23.1	329	15.4			
6	21.0	336	11.5			
7	19.4	329	7.9			
8	18.5	334	7.3			
9	17.7	331	6.4			
10	16.9	327	4.5			
11	16.4	327	4.7			
12	15.8	325	4.9			
13	15.3	324	4.9			
14	14.7	326	5.0			
15	14.0	327	5.2			
16	13.1	328	5.4			
17	12.4	326	6.0			
18	11.9	327	6.4			
19	11.2	326	7.1			
20	10.4	328	7.5			
21	9.9	327	8.1			
22	9.5	327	8.3			
23	9.1	325	8.6			
24	8.8	324	8.7			
25	8.6	324	8.6			
26	8.3	323	8.5			
27	8.1	323	8.5			
28	8.0	322	8.5			
29	7.8	322	8.4			
30	7.7	322	8.5			

Table A3. South Holston Reservoir, water quality summary at SFHRM 58, July 6, 2006.

Depth (m)	Temp ©	Cond	DO	Site	Secchi (m)	Time
0	26.7	310	9.5	HRM58	2.4	1150
1	26.7	318	9.6			
2	26.6	321	9.7			
3	26.5	322	9.7			
4	26.0	328	10.7			
5	23.2	356	9.2			
6	21.0	353	5.8			
7	19.5	344	3.8			
8	18.7	335	3.0			
9	17.9	332	2.6			
10	17.2	332	2.1			
11	16.3	330	3.2			
12	15.5	328	3.8			
13	15.1	327	4.0			
14	14.6	327	4.2			
15	14.0	325	4.4			
16	13.1	325	4.8			
17	12.4	323	5.4			
18	11.7	324	5.9			
19	11.2	326	6.3			
20	10.5	328	6.7			
21	10.1	327	7.1			
22	9.3	328	7.4			
23	9.0	327	7.5			
24	8.7	326	7.6			
25	8.5	326	7.6			
26	8.1	326	7.5			
27	8.1	325	7.4			
28	8.0	324	7.3			
29	7.7	325	7.2			
30	7.5	348	7.4			

Table A4. South Holston Reservoir, water quality summary at SFHRM 64, July 6, 2006.

Depth (m)	Temp ©	Cond	DO	Site	Secchi (m)	Time
0	26.8	328	10.3	HRM64	2.4	1315
1	26.7	328	10.4			
2	26.5	329	10.5			
3	26.1	334	10.4			
4	25.5	342	10.4			
5	23.9	353	9.4			
6	22.5	354	7.7			
7	20.1	342	5.7			
8	19.0	331	5.3			
9	17.8	332	2.9			
10	16.7	336	2.3			
11	16.3	334	2.3			
12	15.3	334	2.6			
13	14.9	332	2.9			
14	14.5	335	2.9			
15	13.4	331	3.5			
16	12.9	328	4.0			
17	12.0	330	4.1			
18	11.4	327	4.6			
19	10.9	327	5.3			
20	10.4	329	5.8			
21	9.8	331	6.0			
22	9.3	331	6.4			
23	9.0	331	6.6			
24	8.6	331	6.6			
25	8.5	330	6.7			
26	8.5	329	6.4			
27	Bottom					
28						
29						
30						

Table A5. South Holston Reservoir, water quality summary at SFHRM 51, August 1, 2006.

Depth (m)	Temp ©	Cond	DO	Site	Secchi (m)	Time
0	27.9	363	9.0	HRM51	3.3	1020
1	27.7	362	9.1			
2	27.3	362	9.2			
3	27.2	361	9.2			
4	26.9	361	9.4			
5	26.5	360	9.5			
6	25.3	360	11.9			
7	23.3	367	11.6			
8	21.6	374	6.9			
9	20.0	369	5.1			
10	19.1	366	3.6			
11	18.1	364	3.8			
12	16.9	363	3.6			
13	16.5	359	3.2			
14	15.9	359	3.1			
15	15.3	358	3.0			
16	14.8	357	3.3			
17	14.0	353	3.8			
18	13.6	342	4.1			
19	12.8	342	4.5			
20	12.3	341	5.2			
21	11.7	343	5.7			
22	11.1	344	6.0			
23	10.5	341	6.7			
24	10.1	339	7.1			
25	9.8	338	7.3			
26	9.3	338	7.5			
27	8.9	338	7.7			
28	8.5	337	7.8			
29	8.2	336	7.8			
30	8.1	335	7.8			

Table A6. South Holston Reservoir, water quality summary at SFHRM 55, August 1, 2006.

Depth (m)	Temp ©	Cond	DO	Site	Secchi (m)	Time
0	28.3	342	9.0	HRM55	3.3	1115
1	27.8	347	9.0			
2	27.5	350	9.0			
3	27.3	351	9.2			
4	26.8	354	9.2			
5	26.6	355	9.1			
6	24.9	368	7.9			
7	22.9	371	8.1			
8	21.5	371	6.0			
9	20.2	370	2.9			
10	19.0	364	2.1			
11	17.9	362	2.0			
12	17.2	360	2.5			
13	16.7	359	2.7			
14	15.9	359	2.6			
15	15.3	359	2.7			
16	14.5	360	3.0			
17	13.8	358	3.4			
18	13.4	356	3.7			
19	12.7	355	4.2			
20	12.1	358	4.9			
21	11.6	359	5.6			
22	11.1	359	6.1			
23	10.6	358	6.5			
24	10.1	358	7.0			
25	9.6	357	7.1			
26	9.2	357	7.2			
27	8.9	355	7.1			
28	8.6	356	7.1			
29	8.4	355	7.0			
30	8.2	355	7.2			

Table A7. South Holston Reservoir, water quality summary at SFHRM 58, August 1, 2006.

Depth (m)	Temp ©	Cond	DO	Site	Secchi (m)	Time
0	28.5	359	8.4	HRM58	**2.5**	**1230**
1	27.8	361	8.6			
2	27.7	360	8.6			
3	27.2	360	8.9			
4	26.7	361	9.1			
5	26.5	362	9.0			
6	25.4	377	6.1			
7	23.4	389	3.7			
8	21.6	382	2.1			
9	20.5	377	1.0			
10	18.6	369	0.9			
11	18.0	364	0.8			
12	17.2	363	0.8			
13	16.5	361	1.2			
14	15.8	359	1.6			
15	15.1	359	2.1			
16	14.5	357	2.5			
17	14.0	356	2.7			
18	13.5	355	3.1			
19	12.9	353	3.4			
20	12.1	354	3.8			
21	11.4	356	4.5			
22	11.1	356	5.1			
23	10.4	357	5.4			
24	10.1	357	5.5			
25	9.8	356	5.6			
26	9.2	358	5.8			
27	8.9	357	5.9			
28	8.6	358	5.9			
29	8.3	357	5.8			
30	8.1	356	5.4			

Table A8. South Holston Reservoir, water quality summary at SFHRM 64, August 1, 2006.

Depth (m)	Temp ©	Cond	DO	Site	Secchi (m)	Time
0	28.6	357	10.8	HRM64	1.6	1330
1	27.8	359	11.4			
2	27.4	359	11.6			
3	27.0	361	11.5			
4	26.7	362	10.3			
5	26.3	364	8.7			
6	25.1	382	5.7			
7	23.1	397	3.9			
8	21.4	384	2.0			
9	20.0	373	0.6			
10	18.7	368	0.4			
11	17.9	364	0.1			
12	17.1	363	0.1			
13	16.2	366	0.1			
14	15.7	363	0.5			
15	15.2	361	0.9			
16	14.7	358	1.4			
17	14.1	359	1.7			
18	13.6	358	1.9			
19	12.8	357	2.3			
20	12.1	355	2.9			
21	11.5	355	3.5			
22	10.9	356	4.1			
23	10.6	358	4.2			
24	10.2	359	4.2			
25	9.8	363	2.2			
26	9.4	365	1.5			
27	9.0	365	1.3			
28	8.8	381	0.7			
29	Bottom					
30						

Table A9. South Holston Reservoir, water quality summary at SFHRM 51, September 7, 2006.

Depth (m)	Temp ©	Cond	DO	Site	Secchi (m)	Time
0	25.1	321	8.6	HRM51	2.5	1015
1	25.1	322	8.6			
2	25.1	322	8.6			
3	25.1	322	8.6			
4	25.1	323	8.6			
5	25.1	323	8.6			
6	25.1	323	8.6			
7	25.1	324	8.5			
8	25.1	324	8.5			
9	23.4	350	1.7			
10	21.9	347	0.4			
11	20.9	341	0.4			
12	19.5	334	0.8			
13	18.6	332	0.9			
14	17.7	330	0.8			
15	17.0	328	0.7			
16	16.4	328	0.7			
17	15.9	328	0.8			
18	15.4	326	1.1			
19	14.9	324	1.4			
20	14.5	326	1.6			
21	14.1	327	1.8			
22	13.5	328	2.1			
23	12.9	329	2.6			
24	12.5	329	2.9			
25	12.1	329	3.5			
26	11.5	330	4.0			
27	10.9	331	4.3			
28	10.5	330	4.5			
29	10.1	331	4.8			
30	9.6	330	5.0			

Table A10. South Holston Reservoir, water quality summary at SFHRM 55, September 7, 2006.

Depth (m)	25.2	321	8.4	Site	Secchi (m)	Time
0	25.2	320	8.4	HRM55	2.3	1102
1	25.1	321	8.4			
2	25.1	321	8.4			
3	25.1	321	8.4			
4	25.1	322	8.3			
5	25.0	323	8.3			
6	25.0	323	8.3			
7	25.0	324	8.2			
8	23.2	355	0.7			
9	21.9	351	0.5			
10	20.5	340	0.4			
11	19.5	333	0.4			
12	18.7	332	0.4			
13	17.9	328	0.2			
14	17.1	329	0.2			
15	16.5	329	0.2			
16	16.0	329	0.4			
17	15.5	328	0.6			
18	15.1	328	1.0			
19	14.5	328	1.2			
20	14.0	328	1.3			
21	13.4	328	1.8			
22	12.9	328	2.3			
23	12.4	329	2.7			
24	12.1	330	3.2			
25	11.5	330	3.6			
26	11.1	330	4.0			
27	10.7	330	4.2			
28	10.1	331	4.5			
29	9.7	330	4.6			
30	25.2	321	8.4			

Table A11. South Holston Reservoir, water quality summary at SFHRM 58, September 7, 2006.

Depth (m)	Temp ©	Cond	DO	Site	Secchi (m)	Time
0	25.2	323	7.2	HRM58	2.0	1135
1	25.0	324	7.8			
2	25.0	325	7.8			
3	24.9	325	7.7			
4	24.9	326	7.7			
5	24.9	326	7.7			
6	24.9	327	7.7			
7	24.9	327	7.7			
8	24.9	328	7.7			
9	22.9	361	0.4			
10	21.9	361	0.3			
11	20.9	350	0.3			
12	20.1	347	0.2			
13	18.7	336	0.2			
14	17.9	334	0.2			
15	17.2	333	0.2			
16	16.7	332	0.2			
17	16.2	332	0.2			
18	15.6	331	0.2			
19	15.0	331	0.3			
20	14.7	330	0.4			
21	14.0	330	0.7			
22	13.3	330	1.1			
23	13.0	328	1.4			
24	12.6	328	1.7			
25	12.1	328	1.9			
26	11.2	330	2.2			
27	10.9	330	2.4			
28	10.4	332	2.6			
29	9.9	332	2.6			
30	9.5	332	2.7			

No measurements taken at SFHRM 64 in September 2006.

Figure A1. S. Holston Reservoir water quality data at HRM 51, July 2006.

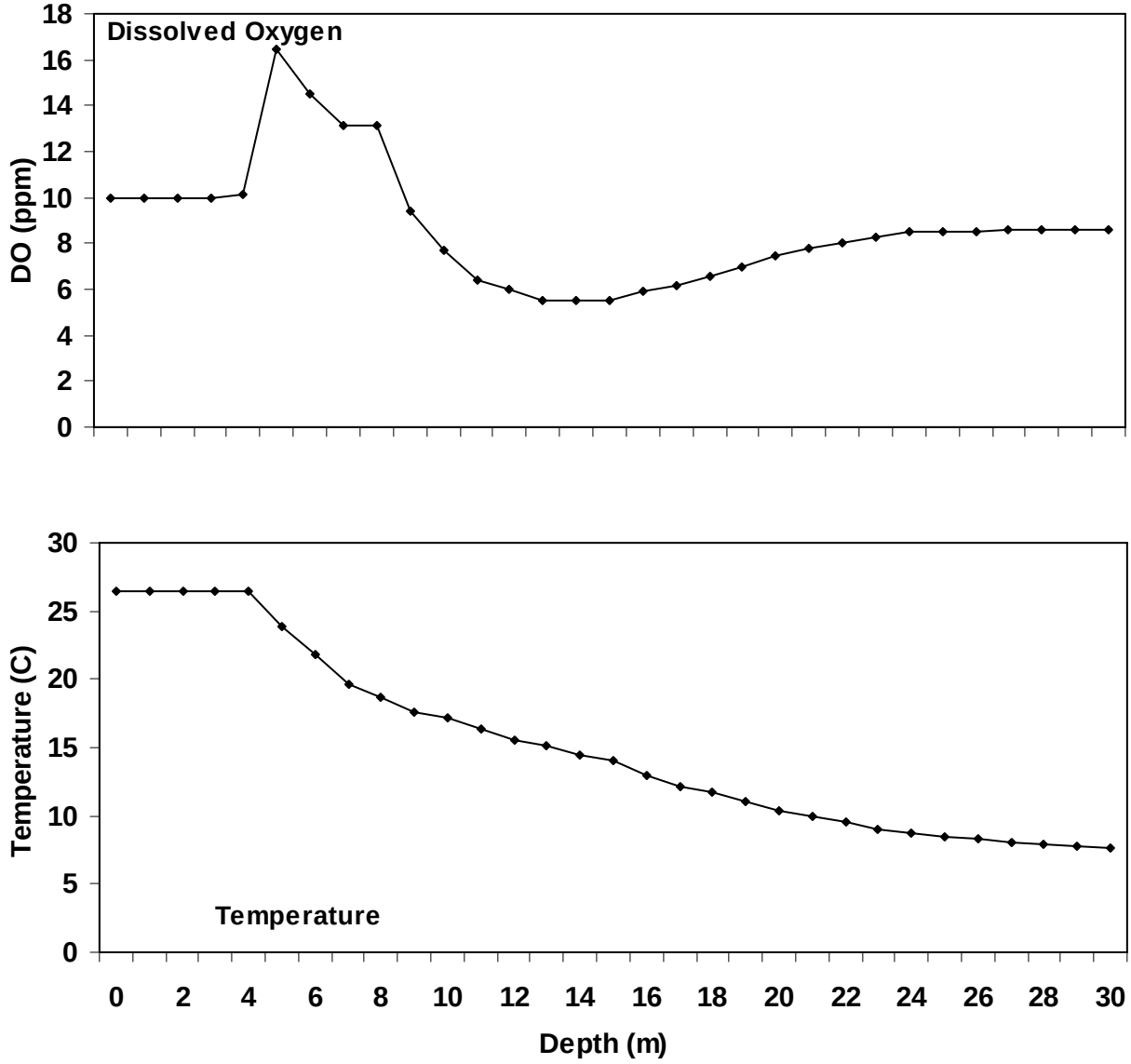


Figure A2. S. Holston Reservoir water quality data at HRM 55, July 2006.

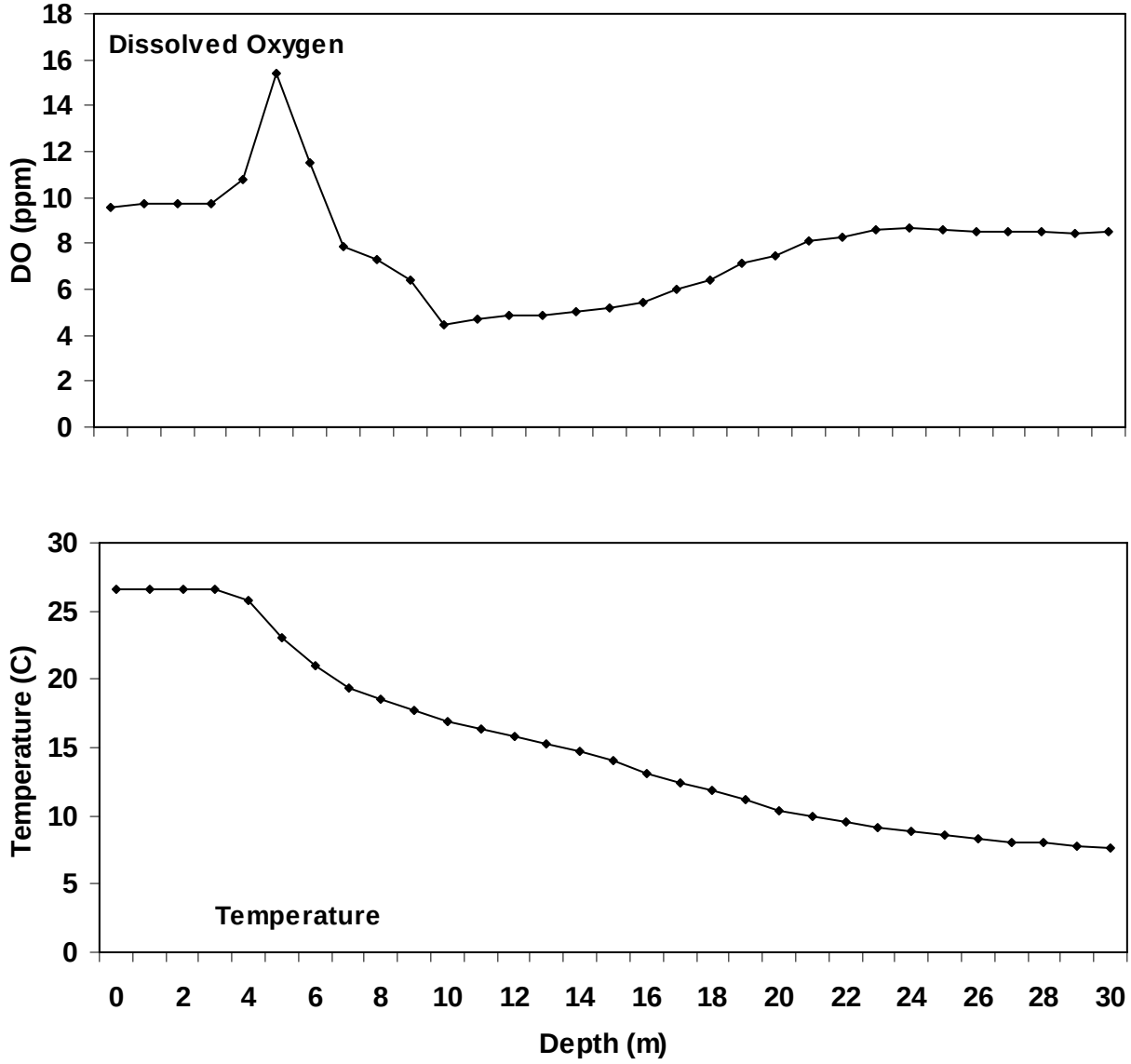


Figure A3. S. Holston Reservoir water quality data at HRM 58, July 2006.

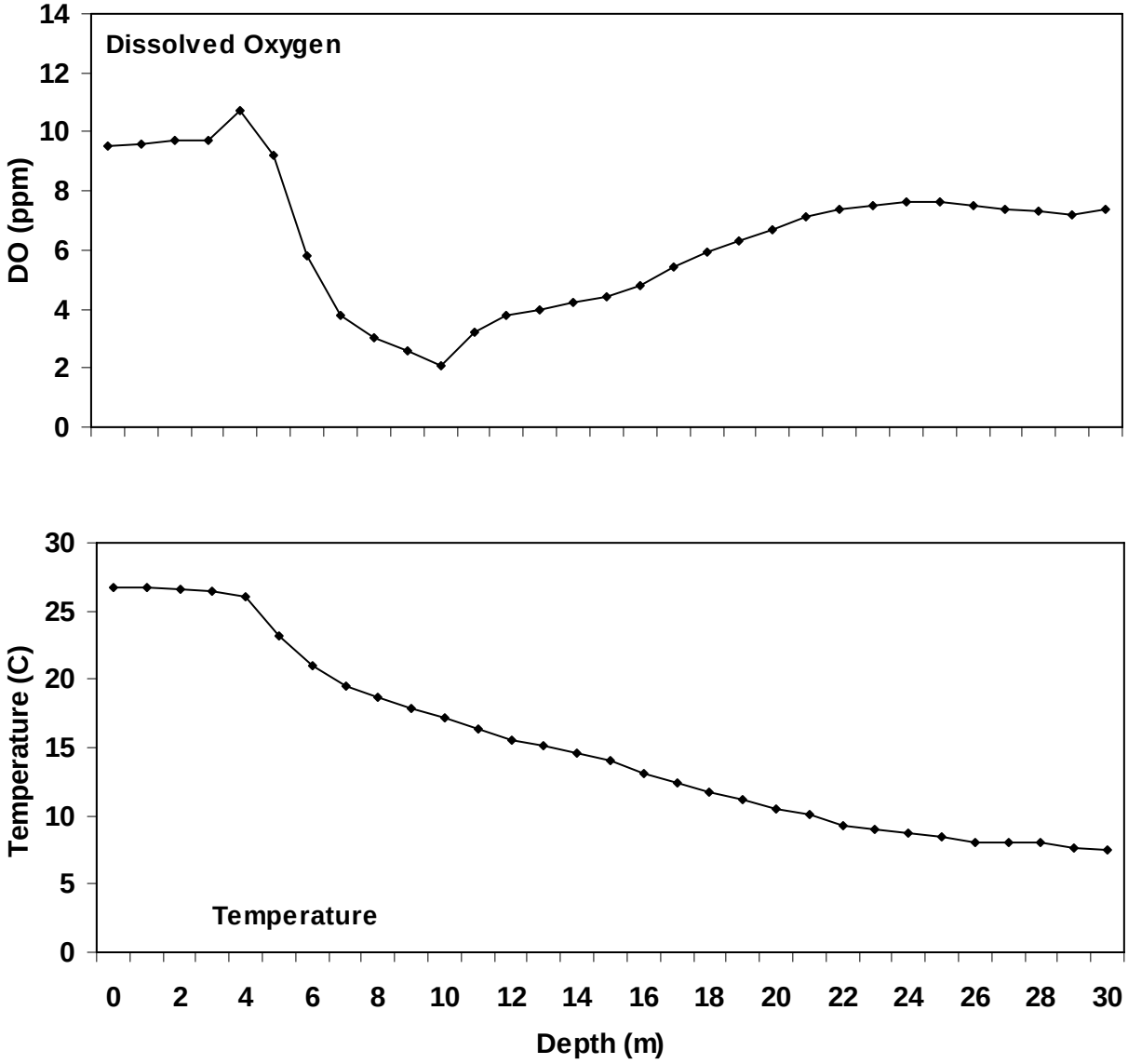


Figure A4. S. Holston Reservoir water quality data at HRM 64, July 2006.

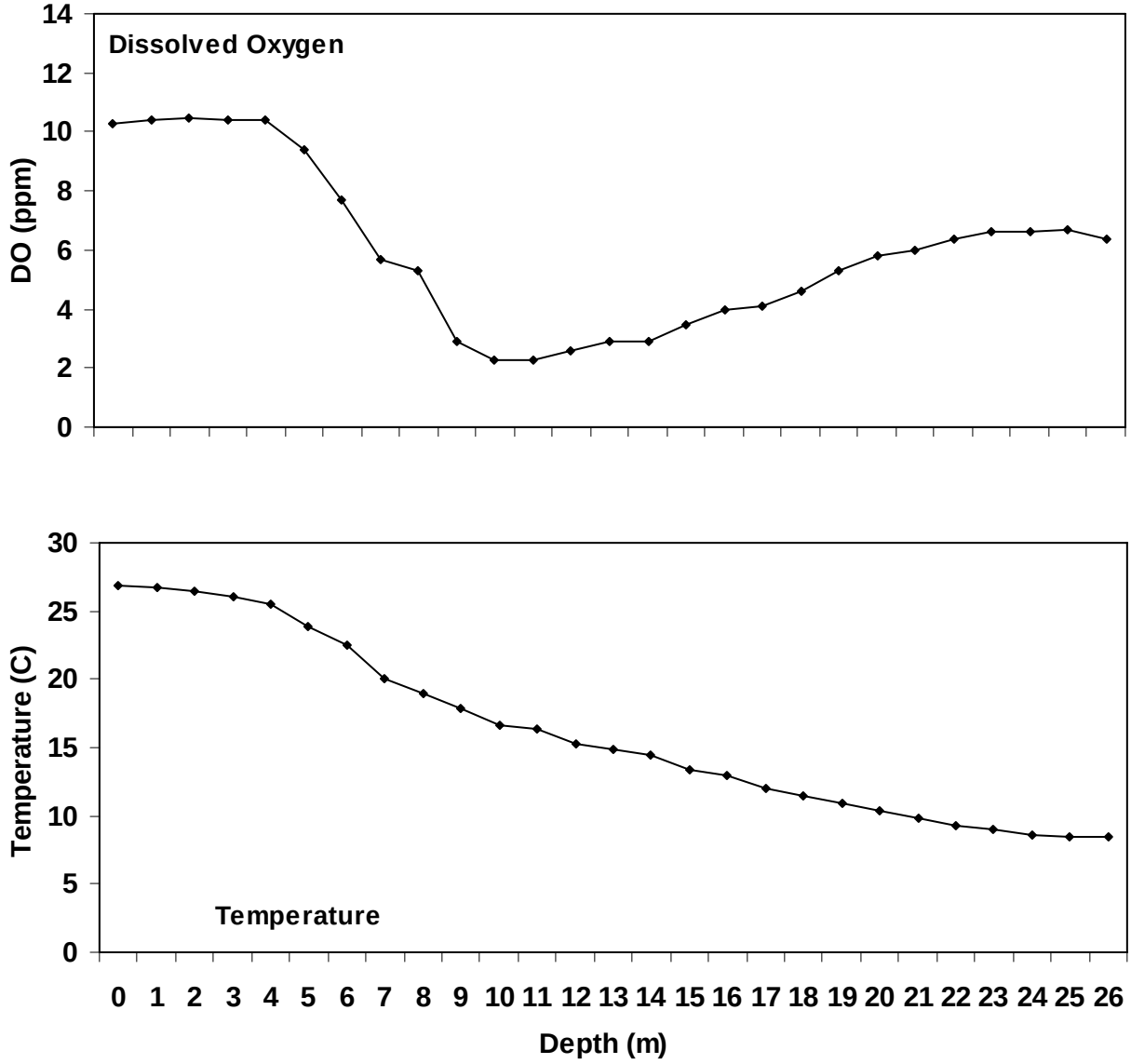


Figure A4. S. Holston Reservoir water quality data at HRM 51, August 2006.

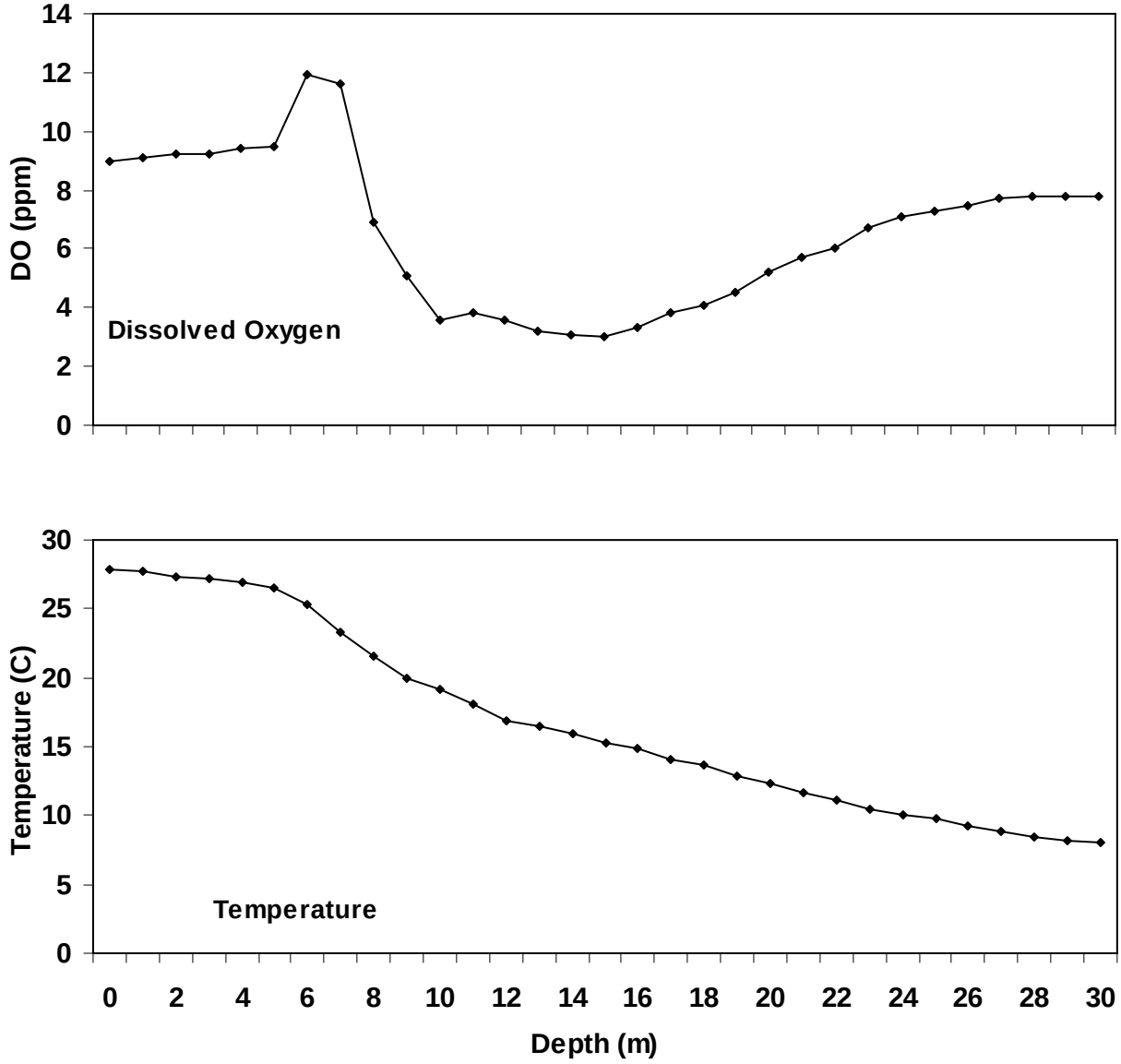


Figure A5. S. Holston Reservoir water quality data at HRM 55, August 2006.

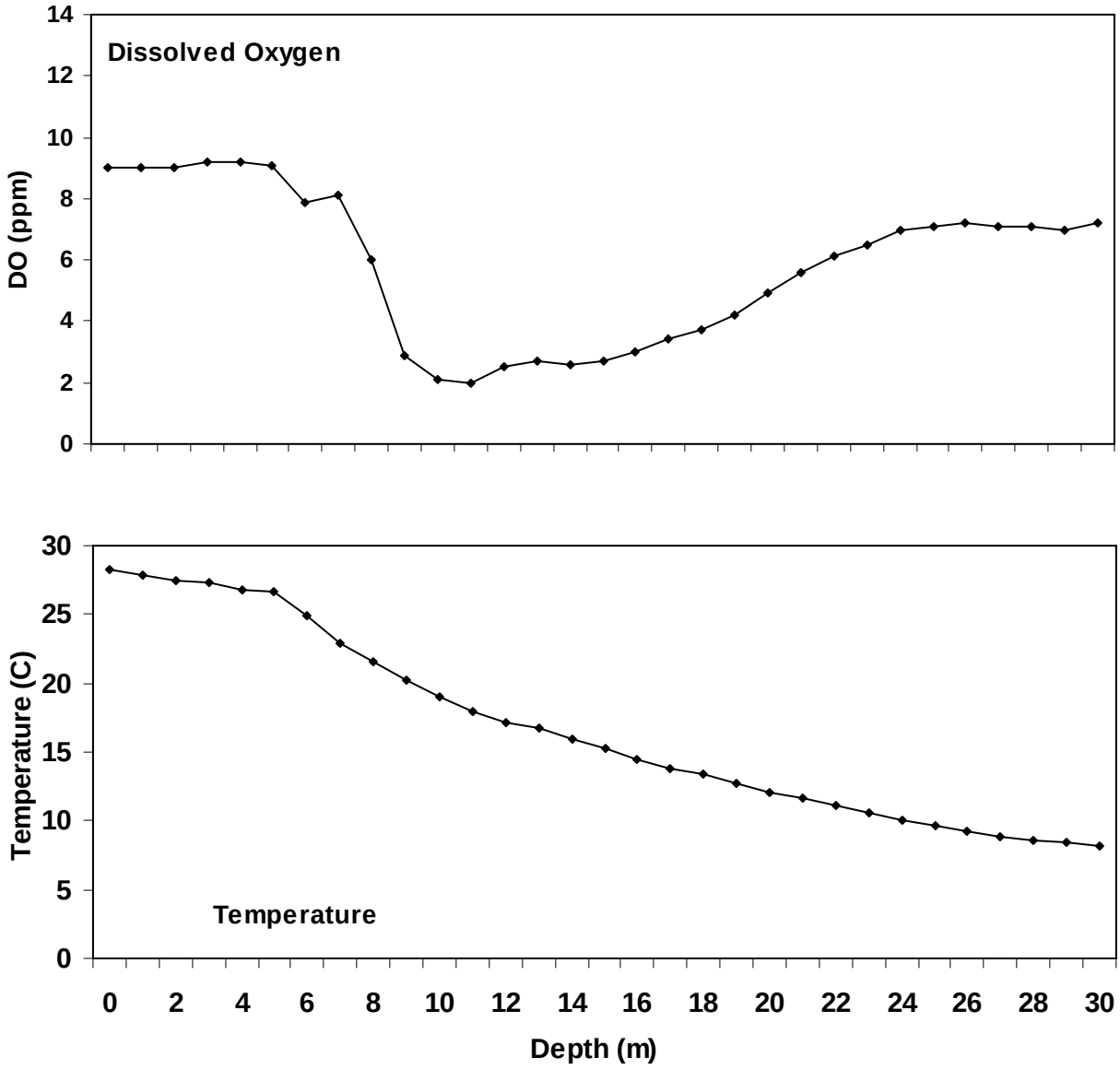


Figure A6. S. Holston Reservoir water quality data at HRM 58, August 2006.

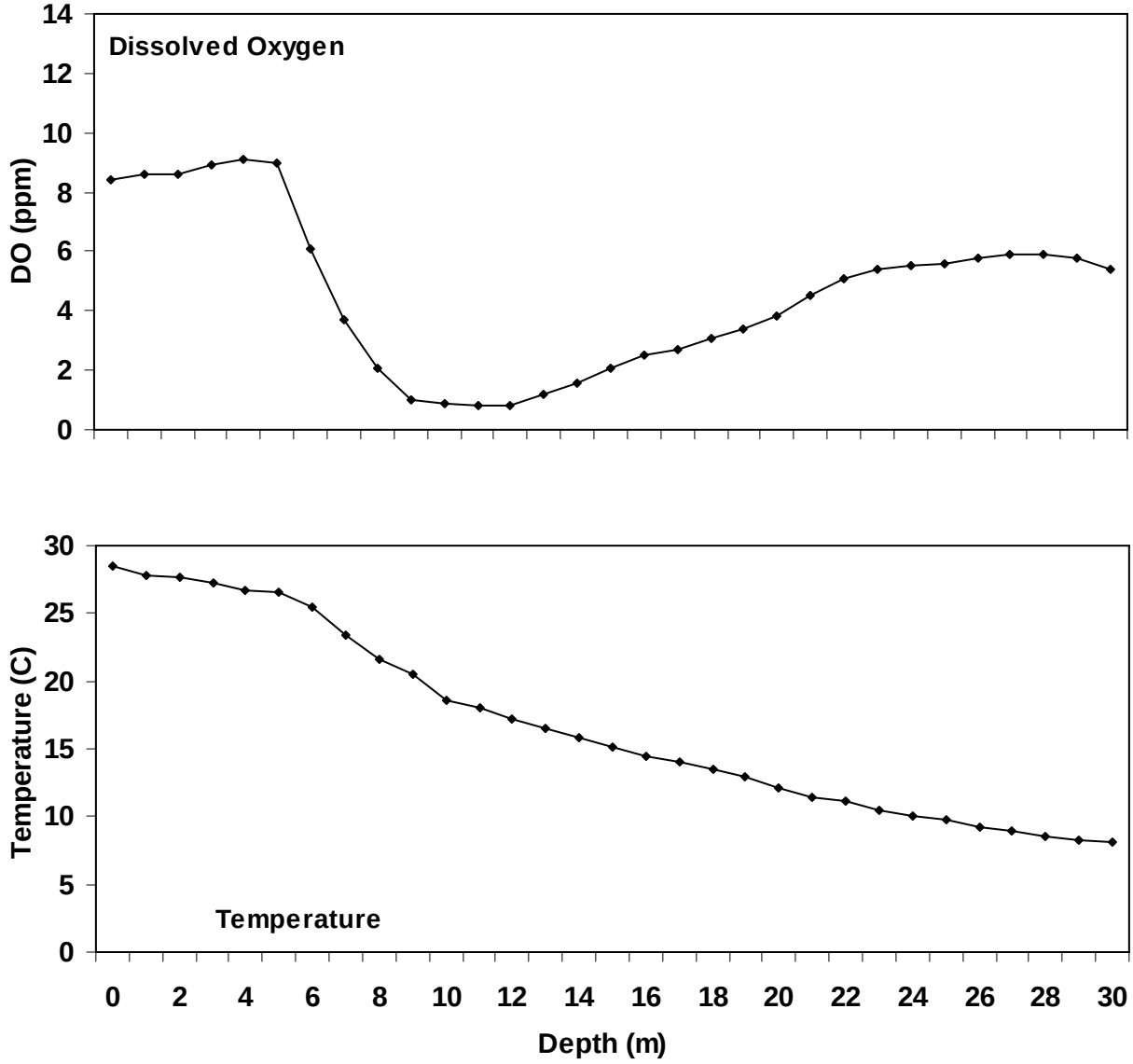


Figure A7. S. Holston Reservoir water quality data at HRM 64, August 2006.

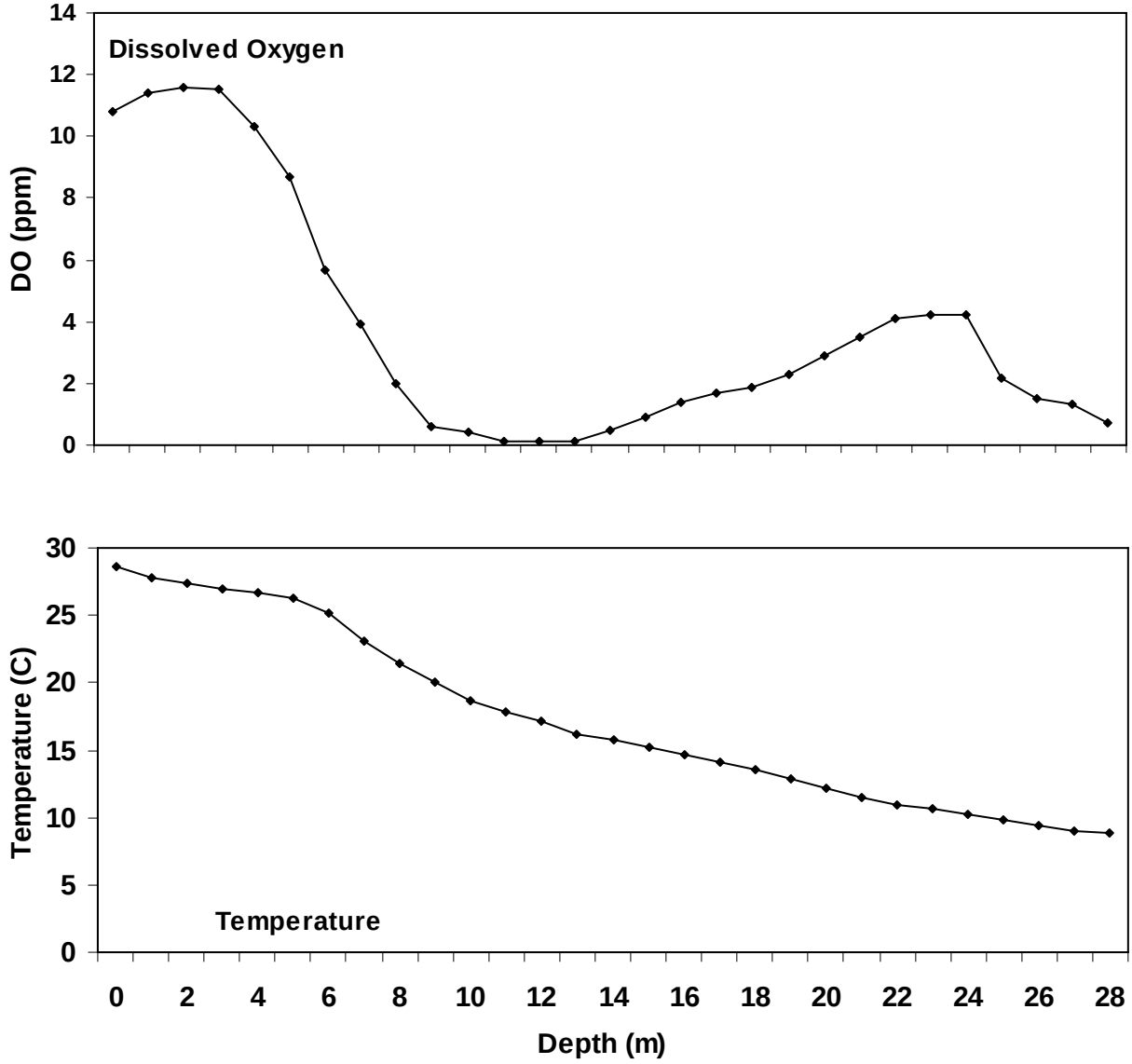


Figure A8. S. Holston Reservoir water quality data at HRM 51, September 2006.

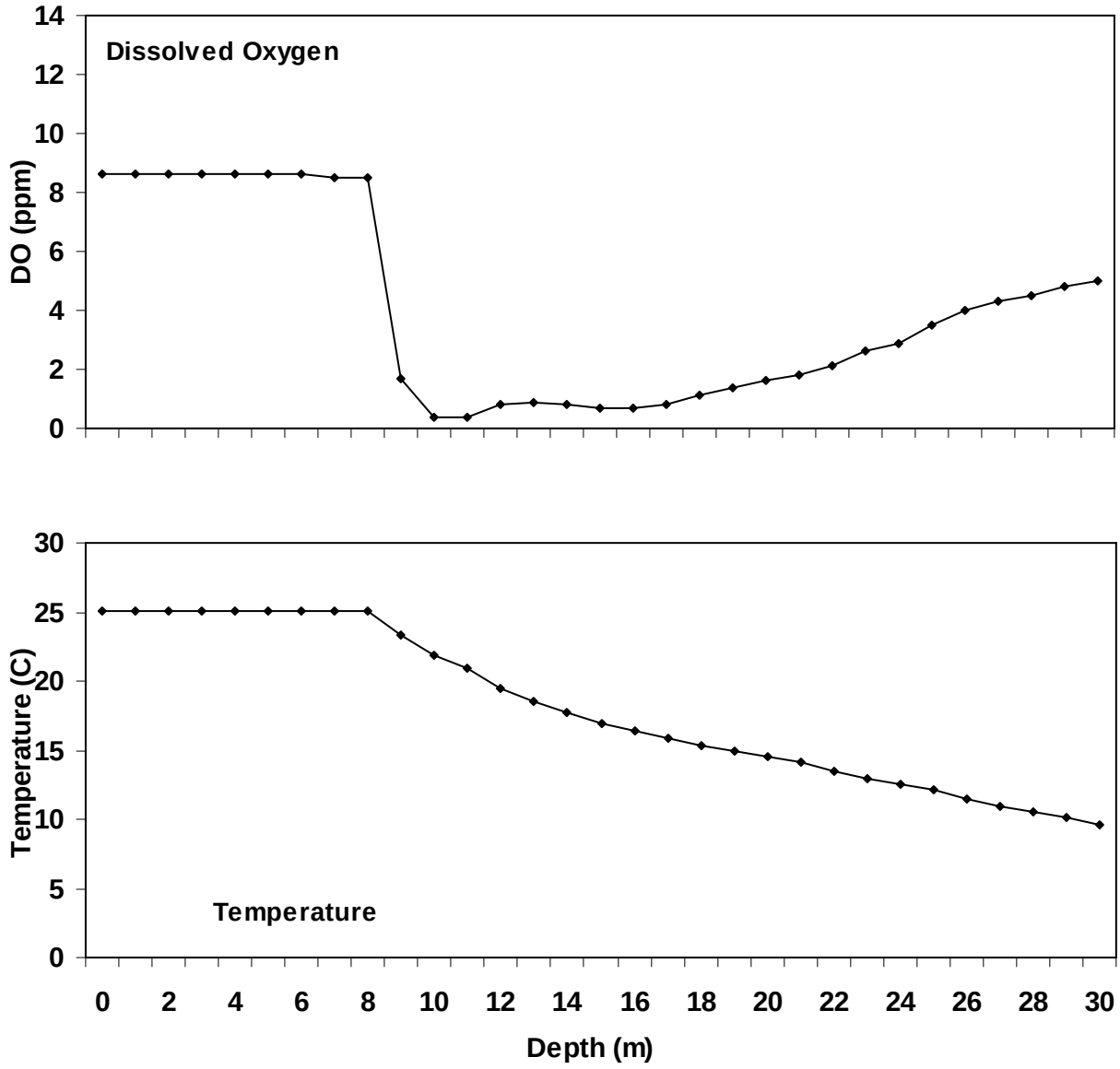


Figure A9. S. Holston Reservoir water quality data at HRM 55, September 2006.

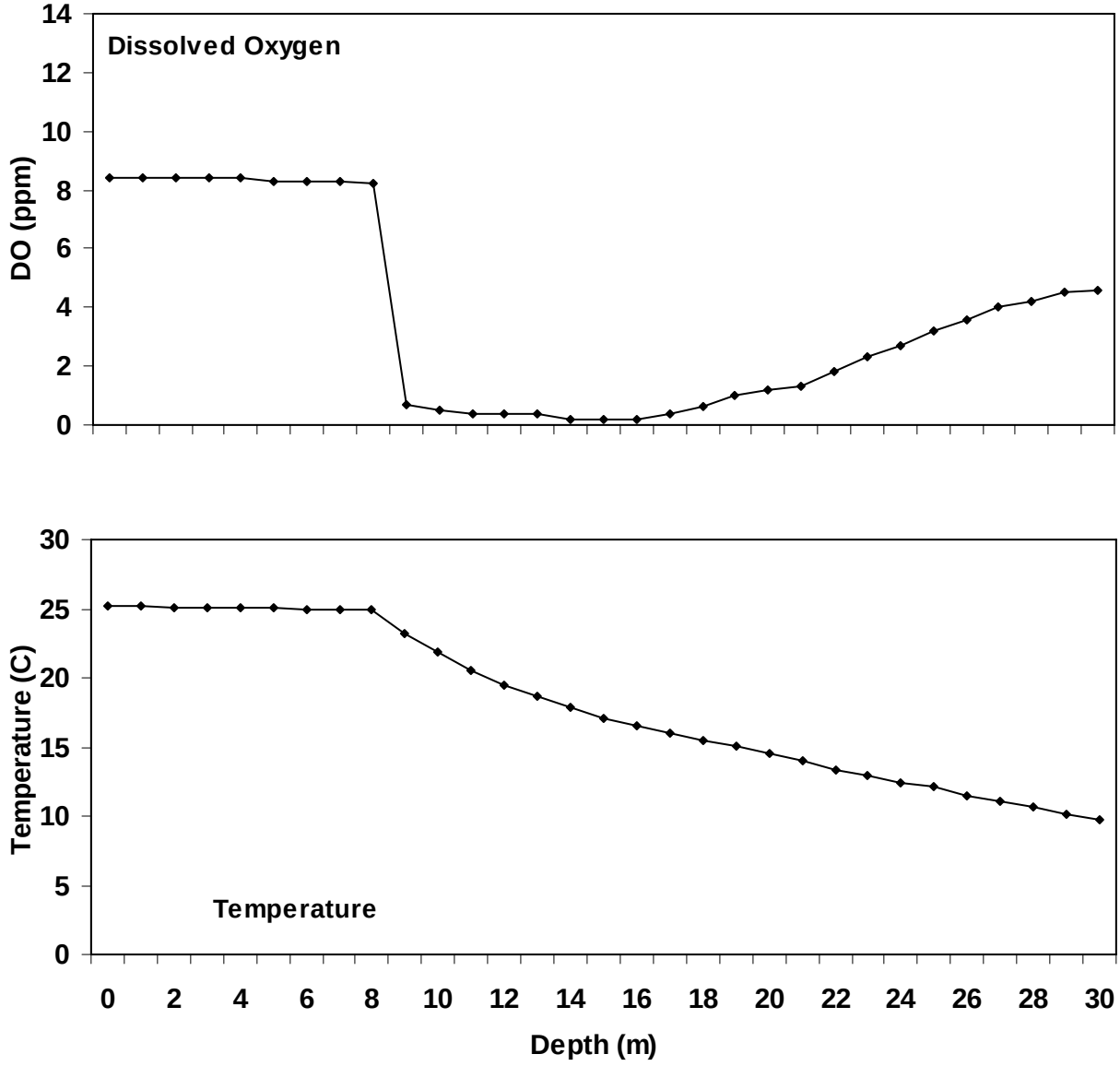
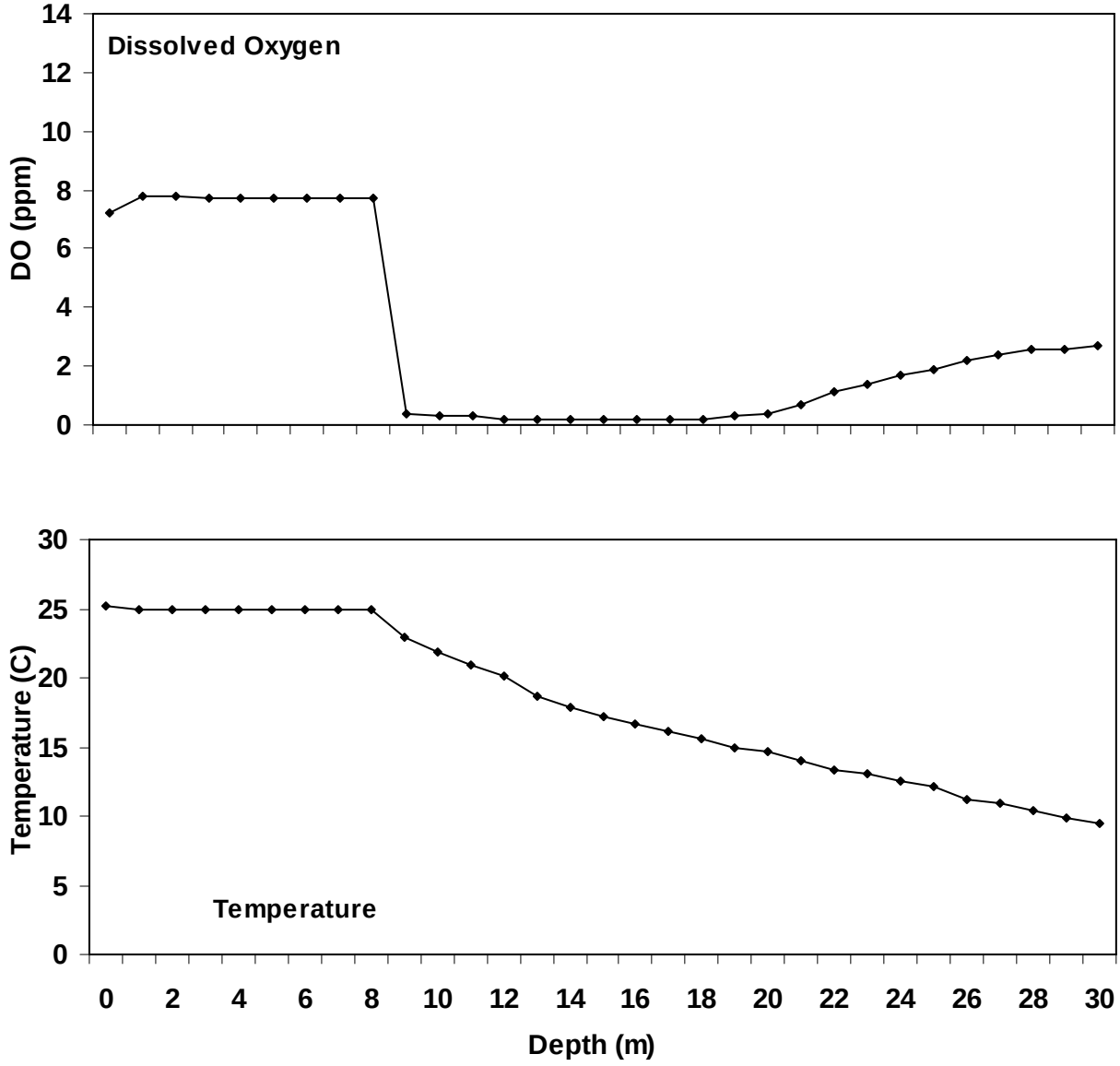


Figure A10. S. Holston Reservoir water quality data at HRM 58, September 2006.



Appendix B
South Holston Daily Elevations

Table B1. S. Holston Reservoir elevation data for 2006. Data is courtesy of TVA.

Elevation	Month	Day	Elevation	Month	Day	Elevation	Month	Day
1704.25	January	1	1709.81	February	24	1721.45	April	19
1704.42	January	2	1710.25	February	25	1721.76	April	20
1704.54	January	3	1710.58	February	26	1722.02	April	21
1704.75	January	4	1710.51	February	27	1722.55	April	22
1704.94	January	5	1710.64	February	28	1723.04	April	23
1704.90	January	6	1710.86	March	1	1723.45	April	24
1705.03	January	7	1711.04	March	2	1723.83	April	25
1705.15	January	8	1711.20	March	3	1724.59	April	26
1705.25	January	9	1711.35	March	4	1726.03	April	27
1705.15	January	10	1711.50	March	5	1726.91	April	28
1705.24	January	11	1711.67	March	6	1727.46	April	29
1705.25	January	12	1711.82	March	7	1727.82	April	30
1705.35	January	13	1711.96	March	8	1728.01	May	1
1705.47	January	14	1712.11	March	9	1728.11	May	2
1705.41	January	15	1712.25	March	10	1728.22	May	3
1705.34	January	16	1712.31	March	11	1728.32	May	4
1705.12	January	17	1712.43	March	12	1728.48	May	5
1706.04	January	18	1712.68	March	13	1728.63	May	6
1706.53	January	19	1713.00	March	14	1728.78	May	7
1706.68	January	20	1713.29	March	15	1728.85	May	8
1707.09	January	21	1713.49	March	16	1728.91	May	9
1707.45	January	22	1713.73	March	17	1728.90	May	10
1707.03	January	23	1713.92	March	18	1728.84	May	11
1707.19	January	24	1714.08	March	19	1728.97	May	12
1707.35	January	25	1714.22	March	20	1729.10	May	13
1707.24	January	26	1714.12	March	21	1729.25	May	14
1707.07	January	27	1714.30	March	22	1729.24	May	15
1707.21	January	28	1714.49	March	23	1729.27	May	16
1707.39	January	29	1714.72	March	24	1729.29	May	17
1707.44	January	30	1714.91	March	25	1729.36	May	18
1707.48	January	31	1715.09	March	26	1729.49	May	19
1707.47	February	1	1715.17	March	27	1729.83	May	20
1707.63	February	2	1715.30	March	28	1730.03	May	21
1707.78	February	3	1715.44	March	29	1729.86	May	22
1708.28	February	4	1715.39	March	30	1729.97	May	23
1708.84	February	5	1715.56	March	31	1730.01	May	24
1708.97	February	6	1715.75	April	1	1729.74	May	25
1708.79	February	7	1715.89	April	2	1729.60	May	26
1708.65	February	8	1716.16	April	3	1729.94	May	27
1708.49	February	9	1716.39	April	4	1730.14	May	28
1708.29	February	10	1716.63	April	5	1730.20	May	29
1708.15	February	11	1716.85	April	6	1729.98	May	30
1708.33	February	12	1717.12	April	7	1729.66	May	31
1707.95	February	13	1717.89	April	8	1729.27	June	1
1707.48	February	14	1718.67	April	9	1729.00	June	2
1707.63	February	15	1719.16	April	10	1729.15	June	3
1707.77	February	16	1719.55	April	11	1729.27	June	4
1707.99	February	17	1719.84	April	12	1729.23	June	5
1708.06	February	18	1720.09	April	13	1729.33	June	6
1708.16	February	19	1720.31	April	14	1729.43	June	7
1708.22	February	20	1720.50	April	15	1729.34	June	8
1708.30	February	21	1720.69	April	16	1729.25	June	9
1708.61	February	22	1720.90	April	17	1729.30	June	10
1709.20	February	23	1721.11	April	18	1729.39	June	11

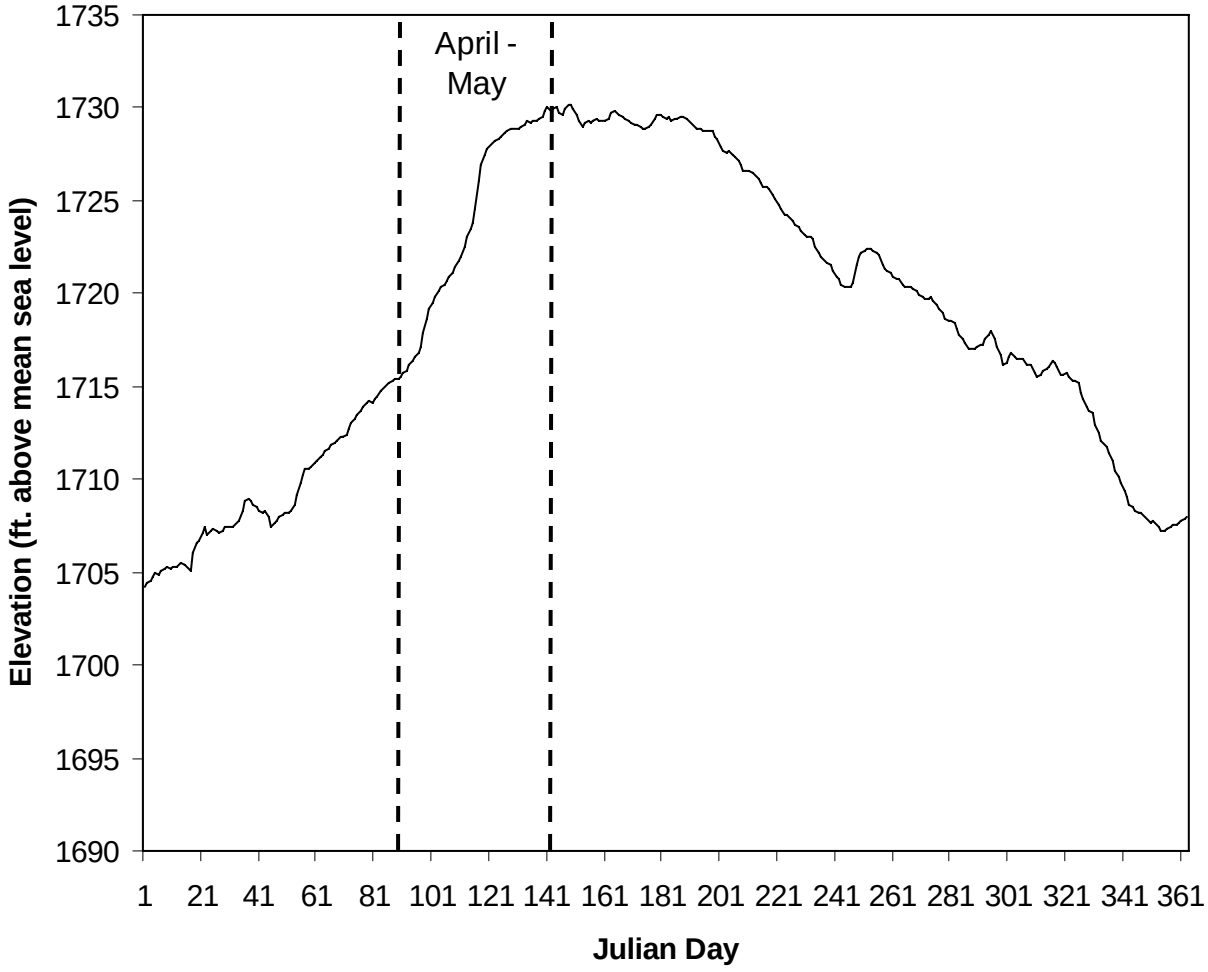
Table B1. Continued.

Elevation	Month	Day	Elevation	Month	Day	Elevation	Month	Day
1729.69	June	12	1725.71	August	5	1719.87	September	28
1729.88	June	13	1725.64	August	6	1719.70	September	29
1729.77	June	14	1725.33	August	7	1719.70	September	30
1729.61	June	15	1725.08	August	8	1719.81	October	1
1729.47	June	16	1724.80	August	9	1719.60	October	2
1729.36	June	17	1724.55	August	10	1719.37	October	3
1729.33	June	18	1724.26	August	11	1719.14	October	4
1729.21	June	19	1724.22	August	12	1718.95	October	5
1729.11	June	20	1724.17	August	13	1718.65	October	6
1729.04	June	21	1723.95	August	14	1718.57	October	7
1729.00	June	22	1723.74	August	15	1718.51	October	8
1728.89	June	23	1723.59	August	16	1718.41	October	9
1728.83	June	24	1723.40	August	17	1718.08	October	10
1728.93	June	25	1723.18	August	18	1717.80	October	11
1729.12	June	26	1723.10	August	19	1717.54	October	12
1729.36	June	27	1723.03	August	20	1717.32	October	13
1729.63	June	28	1722.91	August	21	1716.97	October	14
1729.62	June	29	1722.55	August	22	1716.98	October	15
1729.48	June	30	1722.19	August	23	1717.05	October	16
1729.45	July	1	1721.96	August	24	1717.14	October	17
1729.50	July	2	1721.73	August	25	1717.20	October	18
1729.33	July	3	1721.67	August	26	1717.28	October	19
1729.36	July	4	1721.59	August	27	1717.51	October	20
1729.45	July	5	1721.25	August	28	1717.79	October	21
1729.55	July	6	1720.92	August	29	1717.97	October	22
1729.53	July	7	1720.74	August	30	1717.55	October	23
1729.40	July	8	1720.52	August	31	1717.16	October	24
1729.32	July	9	1720.34	September	1	1716.72	October	25
1729.14	July	10	1720.37	September	2	1716.17	October	26
1729.01	July	11	1720.41	September	3	1716.27	October	27
1728.85	July	12	1720.60	September	4	1716.55	October	28
1728.82	July	13	1721.53	September	5	1716.79	October	29
1728.79	July	14	1721.95	September	6	1716.56	October	30
1728.72	July	15	1722.17	September	7	1716.51	October	31
1728.77	July	16	1722.32	September	8	1716.51	November	1
1728.77	July	17	1722.43	September	9	1716.43	November	2
1728.47	July	18	1722.37	September	10	1716.18	November	3
1728.32	July	19	1722.27	September	11	1716.15	November	4
1727.93	July	20	1722.16	September	12	1716.13	November	5
1727.71	July	21	1722.09	September	13	1715.74	November	6
1727.58	July	22	1721.55	September	14	1715.47	November	7
1727.64	July	23	1721.33	September	15	1715.61	November	8
1727.48	July	24	1721.22	September	16	1715.82	November	9
1727.32	July	25	1721.07	September	17	1715.97	November	10
1727.14	July	26	1720.88	September	18	1716.10	November	11
1726.93	July	27	1720.77	September	19	1716.37	November	12
1726.65	July	28	1720.74	September	20	1716.24	November	13
1726.58	July	29	1720.51	September	21	1716.05	November	14
1726.60	July	30	1720.41	September	22	1715.62	November	15
1726.54	July	31	1720.33	September	23	1715.60	November	16
1726.37	August	1	1720.41	September	24	1715.74	November	17
1726.15	August	2	1720.24	September	25	1715.56	November	18
1725.95	August	3	1720.11	September	26	1715.31	November	19
1725.72	August	4	1719.96	September	27	1715.29	November	20

Table B1. Continued.

Elevation	Month	Day
1715.21	November	21
1714.66	November	22
1714.29	November	23
1713.90	November	24
1713.71	November	25
1713.53	November	26
1712.91	November	27
1712.48	November	28
1712.07	November	29
1711.93	November	30
1711.78	December	1
1711.42	December	2
1711.04	December	3
1710.49	December	4
1710.13	December	5
1709.77	December	6
1709.37	December	7
1709.02	December	8
1708.64	December	9
1708.48	December	10
1708.32	December	11
1708.15	December	12
1708.18	December	13
1708.01	December	14
1707.82	December	15
1707.63	December	16
1707.71	December	17
1707.61	December	18
1707.49	December	19
1707.27	December	20
1707.20	December	21
1707.32	December	22
1707.46	December	23
1707.51	December	24
1707.60	December	25
1707.67	December	26
1707.77	December	27
1707.88	December	28
1707.96	December	29
1708.12	December	30
1708.34	December	31

Figure B1. S. Holston Reservoir daily reservoir elevations for 2006 (TVA data).



Appendix C
Creel

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2006

LAKE=SOUTH HOLSTON

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	12958	19.1	2.0	1947	0.3	10.4
02 FEBRUARY	6050	14.6	1.0	929	0.1	4.8
03 MARCH	8019	17.6	1.3	1236	0.2	6.4
04 APRIL	10582	15.1	1.7	1645	0.3	8.5
05 MAY	24626	55.0	3.9	3824	0.6	19.7
06 JUNE	8125	14.7	1.3	1229	0.2	6.5
07 JULY	11815	9.4	1.9	1822	0.3	9.5
08 AUGUST	9163	7.9	1.4	1415	0.2	7.3
09 SEPTEMBER	9392	12.1	1.5	1459	0.2	7.5
10 OCTOBER	9925	14.4	1.6	1525	0.2	7.9
11 NOVEMBER	7913	15.9	1.2	1172	0.2	6.3
12 DECEMBER	6341	16.7	1.0	995	0.2	5.1
TOTAL	**124909**			**19198**		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2006

LAKE=SOUTH HOLSTON

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	1944	25.9	0.15	16.9	130	59.4	0.01	57.1
02 FEBRUARY	726	30.6	0.12	26.7	121	42.9	0.02	42.8
03 MARCH	1363	31.8	0.17	26.7	241	41.7	0.03	38.9
04 APRIL	2222	38.0	0.21	35.2	423	43.7	0.04	40.9
05 MAY	2955	62.0	0.12	24.2	739	61.5	0.03	25.6
06 JUNE	731	50.4	0.09	45.7	163	38.9	0.02	34.8
07 JULY	3426	28.0	0.29	26.2	354	82.1	0.03	71.3
08 AUGUST	1741	22.1	0.19	20.7	183	34.3	0.02	36.1
09 SEPTEMBER	3287	25.9	0.35	22.7	564	45.9	0.06	40.8
10 OCTOBER	1886	29.1	0.19	25.6	99	59.7	0.01	47.6
11 NOVEMBER	1503	28.3	0.19	22.7	79	26.7	0.01	24.0
12 DECEMBER	1205	33.2	0.19	28.9	127	52.1	0.02	43.1
TOTAL	**22989**				**3223**			

SUMMARY OF SPECIES CATCH STATISTICS - 2006

LAKE=SOUTH HOLSTON

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
CHANNEL CATFISH	594	120.9	2.6	309	240	83.9	7.4	240	59.6	2.85	9
RAINBOW TROUT	423	113.4	1.8	181	127	117.9	3.9	127	70.0	1.54	6
BROWN TROUT	32	545.2	0.1	0	0	.	0.0	0	100.0	.	0
BLUEGILL	2592	49.1	11.2	1054	255	70.0	7.9	255	90.2	0.23	9
SMALLMOUTH BASS	13155	12.7	57.0	12891	1027	23.7	31.9	1027	92.2	2.64	43
LARGEMOUTH BASS	4163	23.8	18.0	3943	338	48.5	10.5	338	91.9	2.05	11
BLACK CRAPPIE	696	108.1	3.0	585	447	104.4	13.9	447	35.8	0.94	15
WALLEYE	1421	54.9	6.2	916	789	46.9	24.5	789	44.5	3.32	22

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

LAKE=SOUTH HOLSTON

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	851	45.5	132	0.7	0.18	51.0	0.18	51.0	6
RAINBOW TROUT	1722	33.4	262	1.4	0.13	44.9	0.13	44.9	11
ANY TROUT	6565	20.6	1005	5.3	0.03	200.8	0.01	349.3	32
ANY SUNFISH	233	90.0	36	0.2	4.61		1.51		2
ANY BLACK BASS	66909	12.1	10277	53.6	0.26	14.9	0.01	79.3	309
SMALLMOUTH BASS	8495	16.6	1305	6.8	0.19	36.0	0.09	74.2	46
ANY CRAPPIE	11595	25.1	1789	9.3	0.12	68.7	0.09	77.5	63
WALLEYE	17580	17.1	2704	14.1	0.08	61.5	0.06	63.3	81
ANY SPECIES	10958	19.8	1687	8.8	0.19	69.0	0.05	166.1	65
TOTAL	**124908**		**19197**						

SUMMARY OF RELATIVE SPECIES CATCH RATES WITHIN TARGET GROUPS - 2006

LAKE=SOUTH HOLSTON

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH			
	CHANNEL CATFISH	0.18	0.18
ANY TROUT			
	RAINBOW TROUT	0.03	0.01
	BROWN TROUT	0.00	0.00
ANY SUNFISH			
	BLUEGILL	4.61	1.51
ANY BLACK BASS			
ANY BLACK BASS			
	SMALLMOUTH BASS	0.17	0.01
	LARGEMOUTH BASS	0.05	0.00
ANY CRAPPIE			
	BLACK CRAPPIE	0.12	0.09

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=SOUTH HOLSTON

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	12	0.33	4	0.24	47
02 FEBRUARY	0		0	0.23	26
03 MARCH	0		0	0.27	23
04 APRIL	0		0	0.19	26
05 MAY	0		0	0.23	30
06 JUNE	0		0	0.23	16
07 JULY	0		0	0.28	38
08 AUGUST	0		0	0.26	24
09 SEPTEMBER	0		0	0.37	28
10 OCTOBER	0		0	0.30	36
11 NOVEMBER	0		0	0.30	29
12 DECEMBER	0		0	0.25	28

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

LAKE=SOUTH HOLSTON

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	2090	530	2620	6
RAINBOW TROUT	2460	2230	4680	11
ANY TROUT	9780	9810	19590	32
ANY SUNFISH	290	450	740	2
ANY BLACK BASS	134640	91350	226000	309
SMALLMOUTH BASS	12400	10720	23120	46
ANY CRAPPIE	17840	17310	35150	63
WALLEYE	33010	23250	56260	81
ANY SPECIES	9940	16080	26020	65
TOTAL	**222450**	**171730**	**394180**	**615**

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2006

LAKE=SOUTH HOLSTON

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	719	70.9
VA	264	26.0
OTHERS	31	3.1

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
CARTER	72	10.0
JOHNSON	63	8.8
SULLIVAN	517	71.8
WASHINGTON	56	7.8
OTHERS IN TN	11	1.5
OUT-OF-STATE	1	0.1

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	794	78.3
B) 26-100	204	20.1
C) 101-250	14	1.4
D) > 250	2	0.2

DISTRIBUTION OF REASONS WHY INTERVIWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	614	100

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	612	99.5
B) 2-5	3	0.5