

South Holston Reservoir
Annual Report 2007

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Largemouth Bass

Population Parameter	Annual Rating	Measure	Gear	Value
Recruitment	Poor	Sub-stock CPUE	Electrofishing	0.4 fish/hr.
<i>Growth*</i>	<i>Good</i>	<i>Mean TL at Age-3</i>	<i>Electrofishing</i>	<i>361 mm</i>
	Good	RSD-P (380 mm)	Electrofishing	59 %
Density	Good	CPUE \geq Stock Size (203 mm)	Electrofishing	18.8 fish/hr.
	N/A	CPUE \geq Minimum Size Limit	Electrofishing	No limit
<i>Mortality*</i>	<i>Low</i>	<i>Total Mortality (Z)</i>	<i>Electrofishing</i>	<i>22%</i>
Angling Pressure	Moderate	Fishing Effort (hours)	Creel Survey	64,527**
Fishing Success	Good	Angler Catch Rate	Creel Survey	0.26**
Value of Fishery	Good	Trip Expenditures	Creel Survey	\$136,890**

Φίγυρε 2. - Based on a 2000 data set.

** - Any Black Bass

Fishery Forecast:

When compared to other reservoirs densities of largemouth bass in South Holston Reservoir are not very high, but the percentage of larger fish in the population is very good. The percentage of preferred size (15-inches and over) largemouth bass has been over 40 percent since 1994, and in 2007 it was near 60%. This indicates steady recruitment into the larger size classes and also indicates a quality and stable fishery which should remain that way in 2008.

Management Recommendations:

No change to the current regulation is recommended.

Smallmouth Bass

Population Parameter	Annual Rating	Measure	Gear	Value
Recruitment	Poor	Sub-stock CPUE	Electrofishing	1.0 fish/hr.
<i>Growth*</i>	<i>Good</i>	<i>Mean TL at Age-3</i>	<i>Electrofishing</i>	<i>324 mm</i>
	Good	RSD-P (350 mm)	Electrofishing	46 %
Density	Good	CPUE \geq Stock Size (178 mm)	Electrofishing	20.6 fish/hr.
	N/A	CPUE \geq Minimum Size Limit	Electrofishing	No limit
<i>Mortality*</i>	<i>Moderate</i>	<i>Total Mortality (Z)</i>	<i>Electrofishing</i>	<i>48%</i>
Angling Pressure	Moderate	Fishing Effort (hours)	Creel Survey	4,376
Fishing Success	Good	Angler Catch Rate	Creel Survey	0.25
Value of Fishery	Good	Trip Expenditures	Creel Survey	\$6,160

Φίγυρε 3. - Based on a 2006 data set.

Fishery Forecast:

The larger size classes of smallmouth showed good recovery in 2007. The 2006 size classes below 14-inches recruited very well into the larger size class in 2007 which greatly improved the quality of the South Holston smallmouth bass fishery. When compared to the other reservoirs in East Tennessee, South Holston has some of the highest percentages of quality and preferred sized smallmouth bass and our goal is to maintain those sizes. The past four years we had noted a slight decline in the larger size classes of smallmouth, but in 2007, we saw an increase in the smallmouth over 14-inches. We should continue to see improvements in the size of the fish when the good numbers of smallmouth between 12 and 15-inches grow into the 17 to 20-inch range with the new minimum size limits.

Management Recommendations:

Continue to monitor the concern that some smallmouth bass anglers have for the quality of the fishery. Implement incremental minimum size limit of 16-inches in 2008 and 18-inches in 2009. Evaluate the impact of the regulation change on the smallmouth bass fishery.

Black Crappie

Population Parameter	Annual Rating	Measure	Gear	Value
Recruitment	Poor	Sub-stock CPUE	Electrofishing	0.0 fish/hr.
<i>Growth*</i>	<i>Good</i>	<i>Mean TL at Age-3</i>	<i>Electrofishing</i>	<i>254 mm</i>
	Good	RSD-P (254 mm)	Electrofishing	74 %
Density	Excellent	CPUE \geq Stock Size (130 mm)	Electrofishing	18.2 fish/hr.
	Good	CPUE \geq Minimum size Limit	Electrofishing	11.0 fish/hr.
<i>Mortality*</i>	<i>Low</i>	<i>Total Mortality (Z)</i>	<i>Electrofishing</i>	<i>29%</i>
Angling Pressure	Moderate	Fishing Effort (hours)	Creel Survey	7,564**
Fishing Success	Fair	Angler Catch Rate	Creel Survey	0.13**
Value of Fishery	Good	Trip Expenditures	Creel Survey	\$11,200**

Figure 4. - Based on a 2002 data set.

** - Any Crappie

Fishery Forecast:

We saw increases in the number of legal size fish and the overall density of the South Holston black crappie fishery in 2007. Although the density of black crappie will never be really high in South Holston Reservoir, 2007 and 2008 densities should remain good.

Management Recommendations:

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

Rainbow Trout

Population Parameter	Annual Rating	Measure	Gear	Value
Angling Pressure	Moderate	Fishing Effort (hours)	Creel Survey	10,099*
Fishing Success	Fair	Angler Catch Rate	Creel Survey	0.08*
Value of Fishery	Good	Trip Expenditures	Creel Survey	\$12,740*

Φτυρε 5. - Any Trout

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

Consider a winter time shoreline electrofishing sample. Tennessee Technological University has been able to collect a decent sample of mostly fish that were stocked within a year of the sample, using the nighttime shoreline electrofishing method. This information could aid in determining a more productive stocking rate.

Stocking and Stocking Evaluations

Species	Number Stocked	Mark	Evaluation	# Fish / Net Night
Walleye	209,862*	None	Gill Netting	6.29
Lake Trout	48,494	fin clip	Creel	N/A
Rainbow Trout	44,119	fin clip	Creel	N/A
Brown Trout	40,004	None	Creel	N/A

*TWRA and VDGIF combined total

Habitat Enhancement and Monitoring

Type of Work	Details	Date
Shoreline Stabilization		See table 9.
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 Reservoir study area morphometric, physical, and chemical characteristics.

Parameter	Measurement	
	<i>English</i>	<i>Metric</i>
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		57 years

Table 2. South Holston Reservoir stocking records 1999 – 2007.

Species	Date	Rate (per acre)	Mean Length (in.)	Number
Walleye	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
	May 2007	27.7	0.75 – 2.0	209,862**
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
	Feb. 2007	6.4	6.0	48,494
Rainbow Trout	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
	Winter Months 2007	5.8	9.0 – 10.0	44,119
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
	Feb. 2007	5.3	6.0 – 7.0	40,004

Φτυυρε 6. - fished stocked by VDGIF

** - combined stockings of TWRA and VDGIF

Table 3. Number of species collected by gear type in South Holston Reservoir, 2007. Effort is represented in hours for electrofishing and net nights for gill netting

Species	Spring Electrofishing			Winter Gill Netting		
	No.	CPUE (# fish / hour)	Total Effort	No.	CPUE (# fish / net night)	Total Effort
Largemouth Bass	96	19.2	5	X	X	X
Smallmouth Bass	108	21.6	5	X	X	X
Spotted Bass	0	0.0	5	X	X	X
Black Crappie	91	18.2	5	X	X	X
Black-Nose Crappie	0	0.0	5	X	X	X
White Crappie	0	0.0	5	X	X	X
Walleye	25	5.0	5	44	6.3	7
White Bass	0	0	5	X	X	X
Gizzard Shad	X	X	X	X	X	X
Threadfin Shad	X	X	X	X	X	X
Alewife	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 – 2007.

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
Largemouth Bass	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
	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
2007	EL	20	2	0.4	2	17	3.4	18	22	4.4	23	52	10	55	3	0.6	3	0	0	0	81	96	19.2	
Smallmouth Bass	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
	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
2007	EL	20	5	1	5	32	6.4	31	24	4.8	23	32	6.4	31	13	2.6	13	2	0.4	2	69	108	21.6	

Table 5. Black crappie and Walleye catch, mean CPUE, and RSD by incremental category for target species by gear in South Holston Reservoir 1998 – 2007.

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
2007	EL	20	0	0	0	2	0.4	2	22	4.4	24	53	11	58	14	2.8	15	0	0	0	98	91	18.2	
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
2007	GN	7	0	0	0	7	0.4	3	15	2.1	34	22	3.1	50	4	0.6	9	0	0	0	93	44	6.29	

Table 6. Largemouth bass mean relative weights (Wr) in South Holston Reservoir, spring 2007.

Length Group	Mean Wr	Std. Error	N
150			
175	82.895	2.679	2
200	93.727	4.809	2
225	85.679	5.214	4
250	87.815	2.098	8
275	96.990	1.451	3
300	98.820	1.723	4
325	88.577	3.868	5
350	97.341	3.419	10
375	100.339	2.398	11
400	97.469	2.225	11
425	100.224	2.048	19
450	99.950	2.548	9
475	104.690	4.162	5
500	101.802	6.097	3
525			
Total =			96

Table 7. Smallmouth bass mean relative weights (Wr) in South Holston Reservoir, spring 2007.

Length Group	Mean Wr	Std. Error	N
150	91.424	6.583	3
175	89.234	1.908	14
200	84.238	1.144	9
225	94.138	2.336	8
250	85.301	6.378	3
275	100.177	8.990	5
300	99.788	2.936	8
325	96.910	1.401	11
350	94.006	2.579	10
375	97.573	2.169	9
400	98.970	3.204	11
425	97.506	1.596	9
450	84.967		1
475	92.986	4.520	4
500	91.378	3.295	2
525	77.577		1
550			
Total =			108

Table 8. Black crappie mean relative weights (Wr) in South Holston Reservoir, spring 2007.

Length Group	Mean Wr	Std. Error	N
150			
175	96.293	2.335	2
200	94.602	2.282	3
225	99.896	1.934	19
250	95.933	1.181	25
275	98.283	1.000	28
300	94.524	1.654	11
325	94.190	9.166	2
350	83.940		1
Total =			91

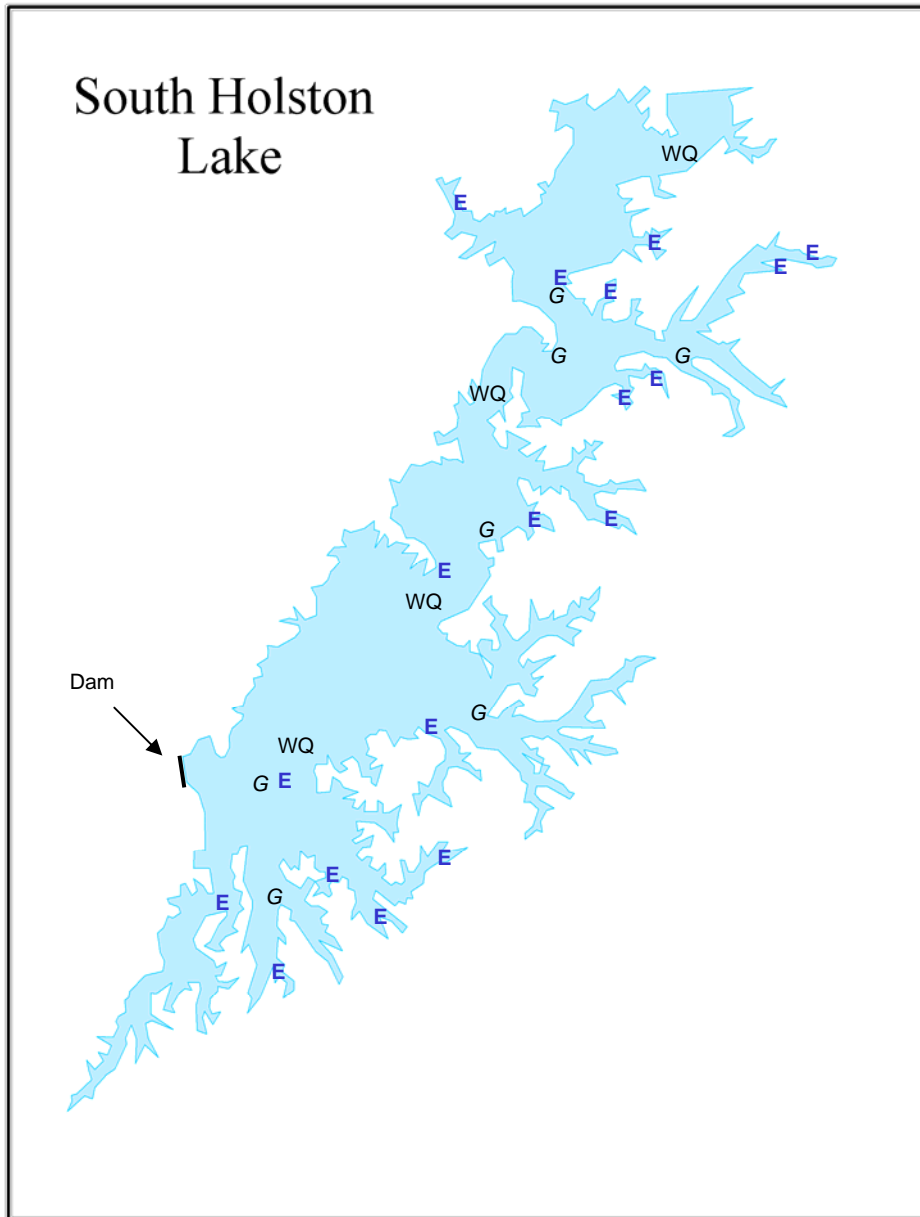
Table 9. South Holston Reservoir fish habitat enhancement summary for 2007.

Location	New Sites			Renovated Sites			Expanded Sites		
	Number	Units	Acres	Number	Units	Acres	Number	Units	Acres
SFHRM 58.50 L*				1	75	1.50			
SFHRM 58.60 L*				1	125	2.50			
SFHRM 58.75 L*				1	200	4.00			
SFHRM 58.85 L*				1	200	4.00			
SFHRM 59.00 L*				1	200	4.00			
SFHRM 60.75 L*				1	200	4.00			
SFHRM 60.80 L*				1	100	2.00			
SFHRM 60.85 L*				1	75	1.50			
SFHRM 61.75 L*				1	150	3.00			
SFHRM 61.50 R*				1	175	3.50			
SFHRM 60.50 L*				1	20	0.40			
Total	0	0	0	11	1520	30	0	0	0

*Christmas Trees with block

Figures

Figure 1. South Holston Reservoir with sites sampled in 2007.



E = Spring Electrofishing
WQ = Water Quality
G = Walleye Gillnet

Largemouth Bass

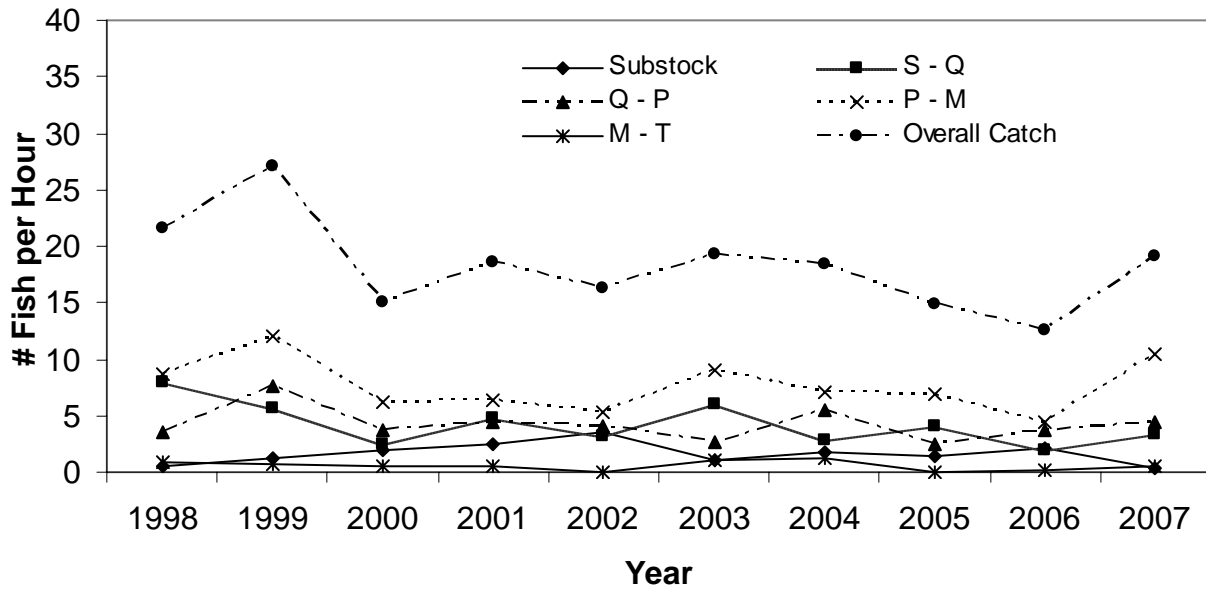


Figure 2. Largemouth bass CPUE by incremental length category in South Holston Reservoir, 1998 - 2007.

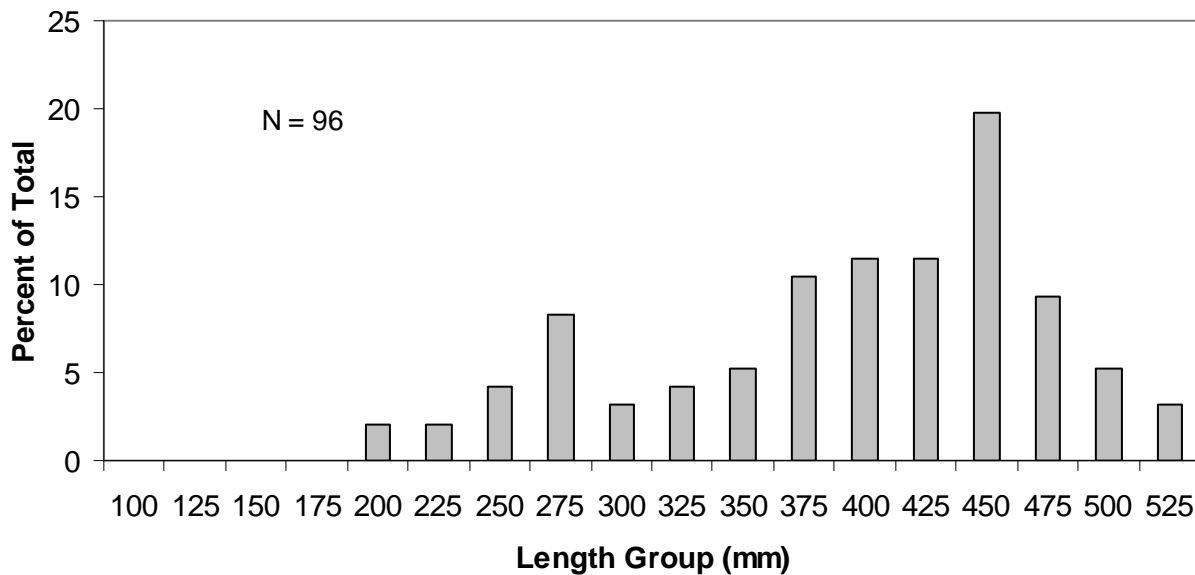


Figure 3. Largemouth bass length frequency by percent in South Holston Reservoir, spring 2007.

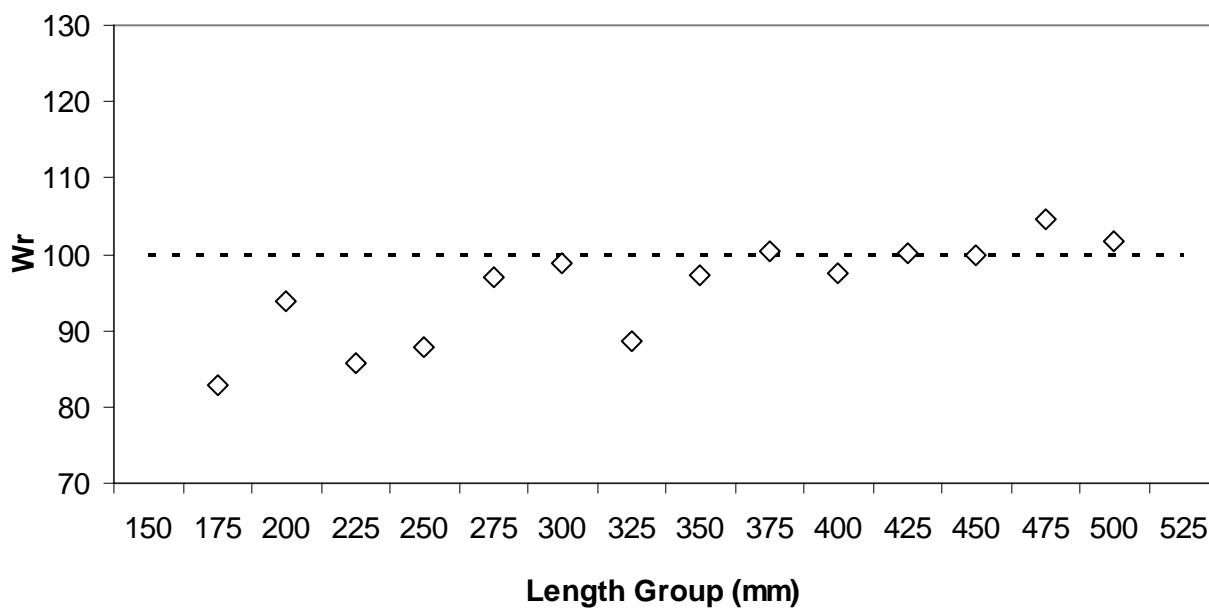


Figure 4. Largemouth bass mean relative weights (Wr) in South Holston Reservoir, spring 2007.

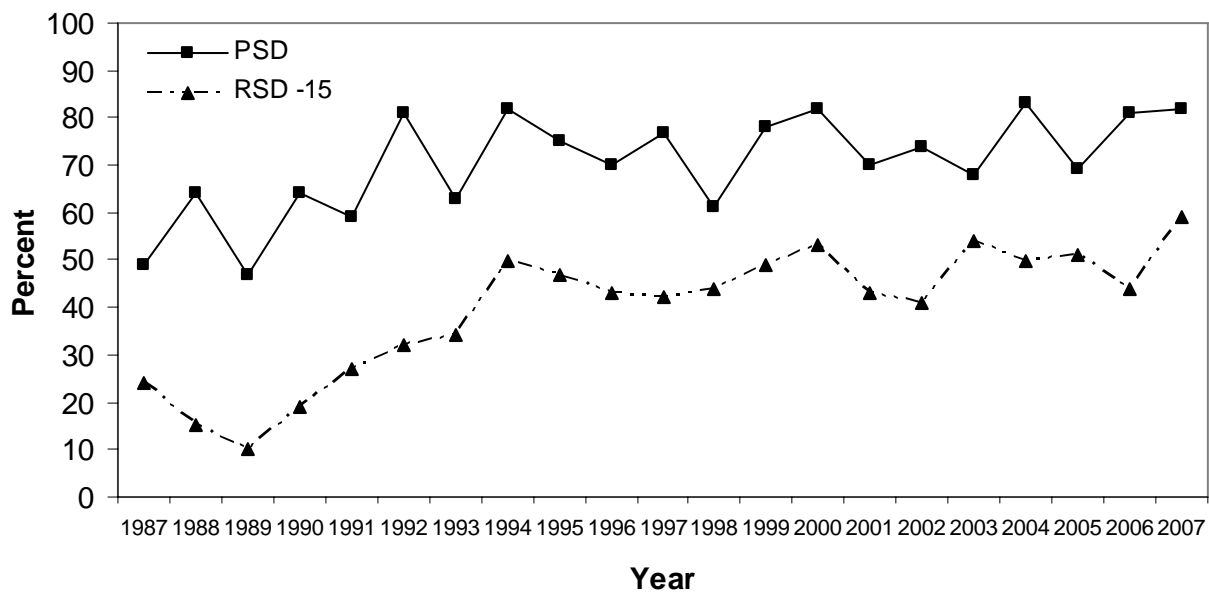


Figure 5. Largemouth bass traditional PSD and RSD -15 values in South Holston Reservoir 1987 – 2007.

Smallmouth Bass

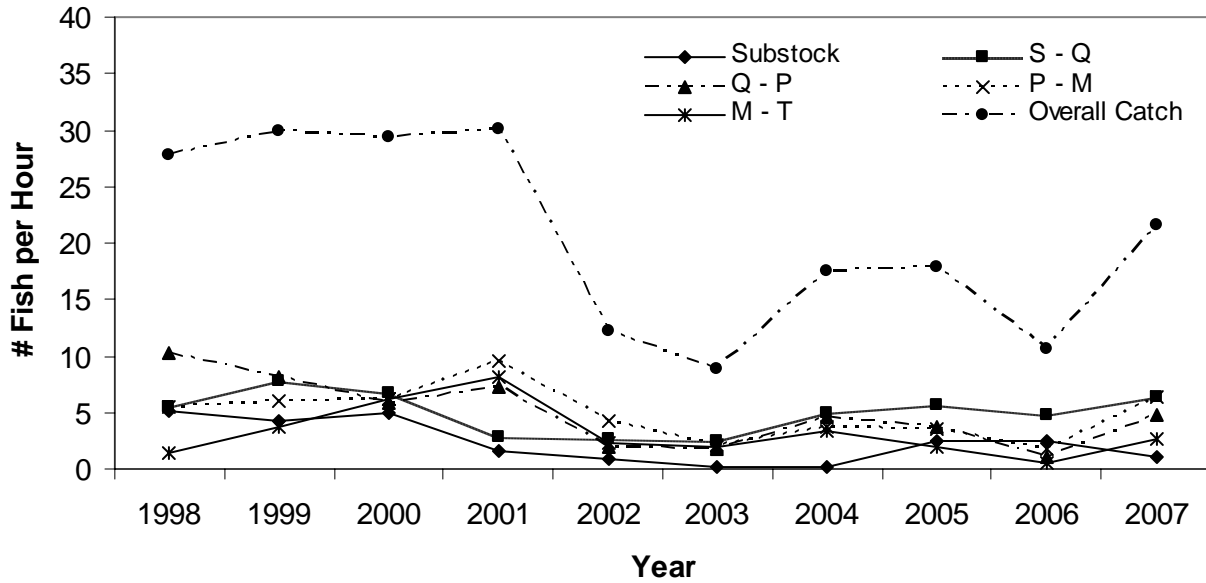


Figure 6. Smallmouth bass CPUE by incremental length category in South Holston Reservoir, 1998 - 2007.

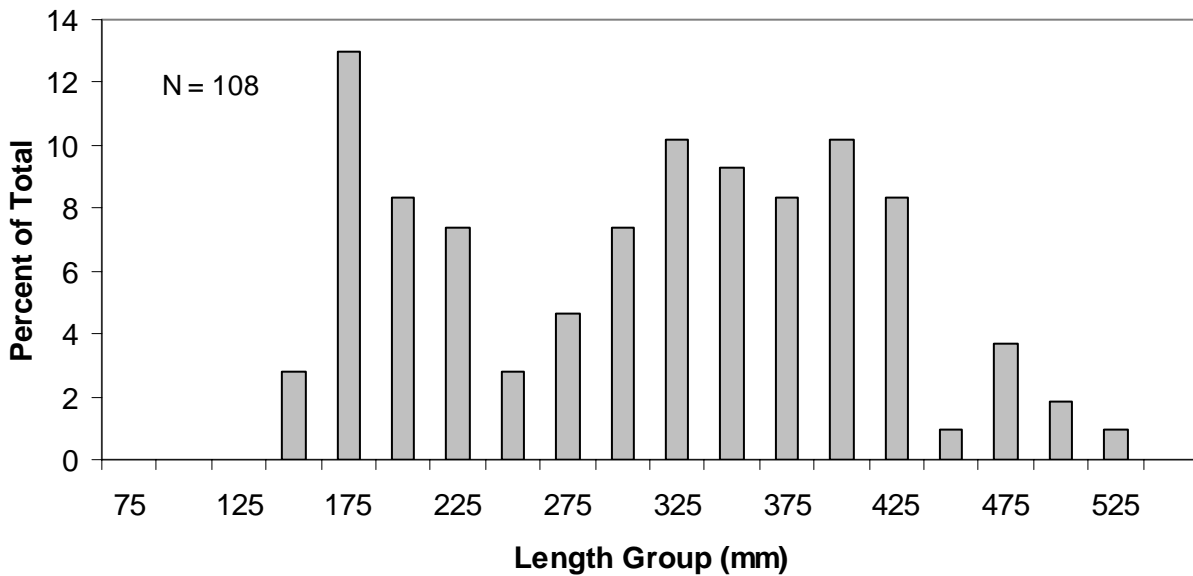


Figure 7. Smallmouth bass length frequency by percent in South Holston Reservoir, spring 2007.

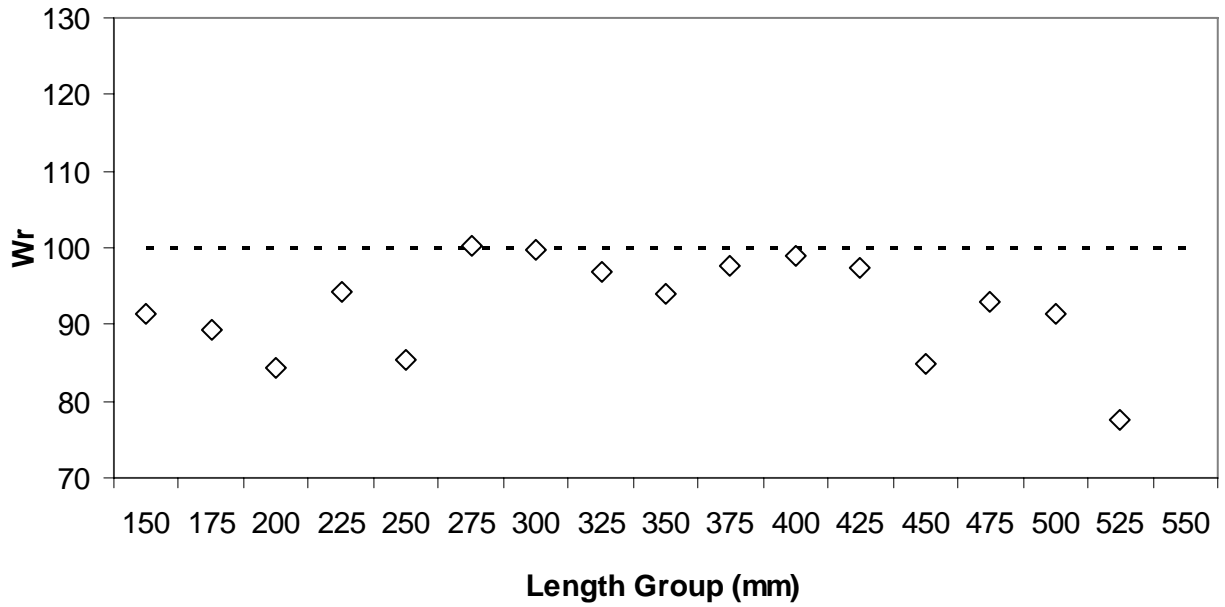


Figure 8. Smallmouth bass mean relative weights (Wr) in South Holston Reservoir, spring 2007.

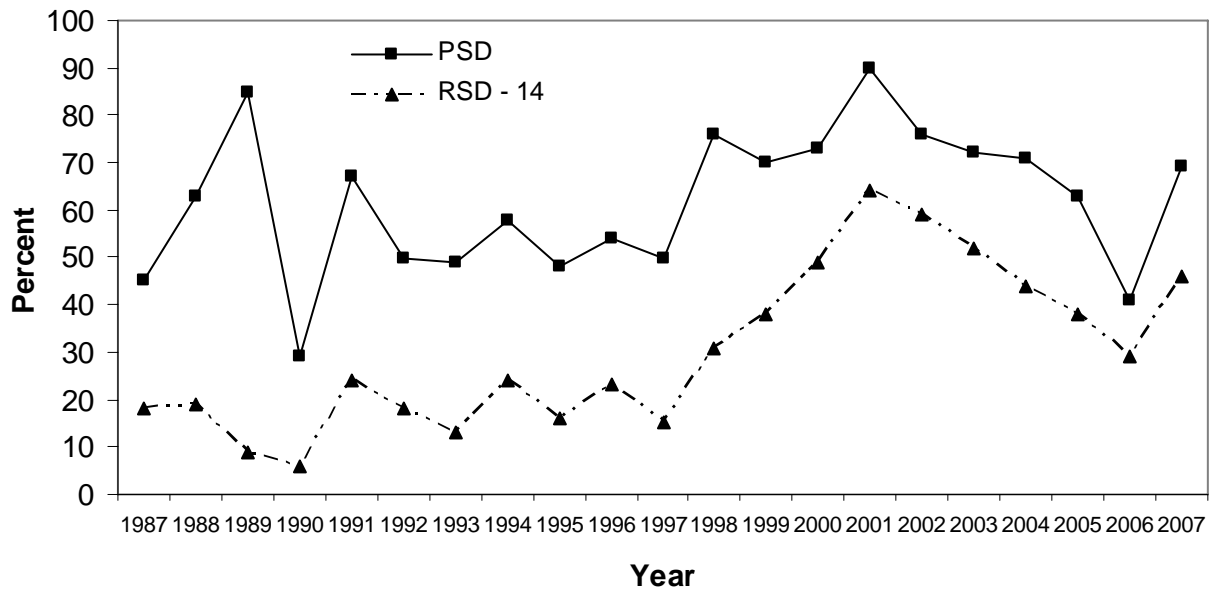


Figure 9. Smallmouth bass traditional PSD and RSD - 14 values in South Holston Reservoir 1987 – 2007.

Black Crappie

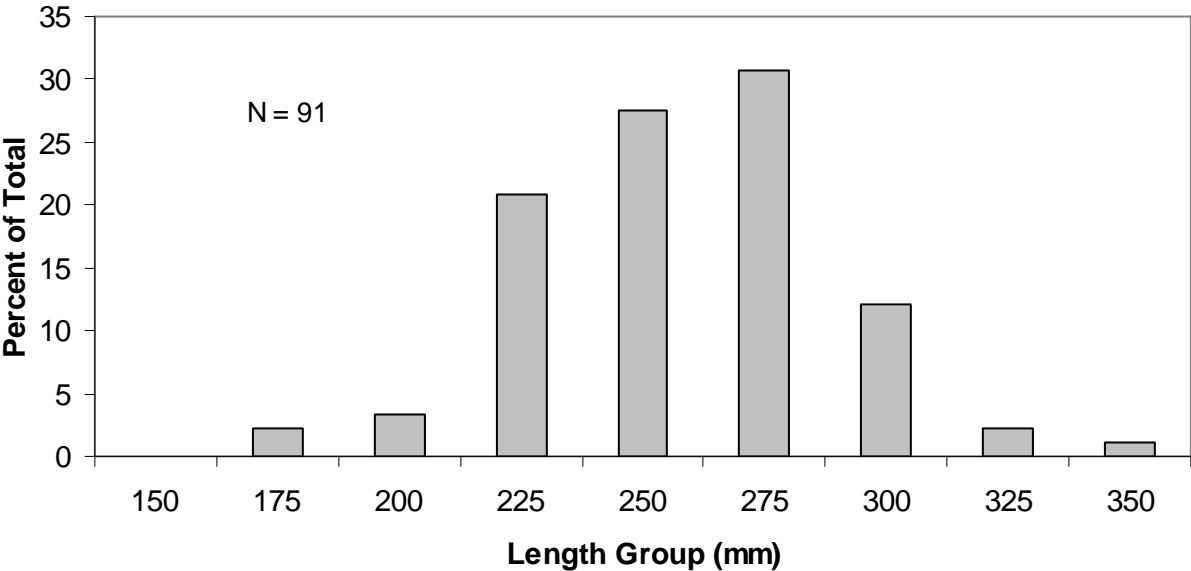


Figure 10. Black crappie length frequency by percent in South Holston Reservoir, spring 2007.

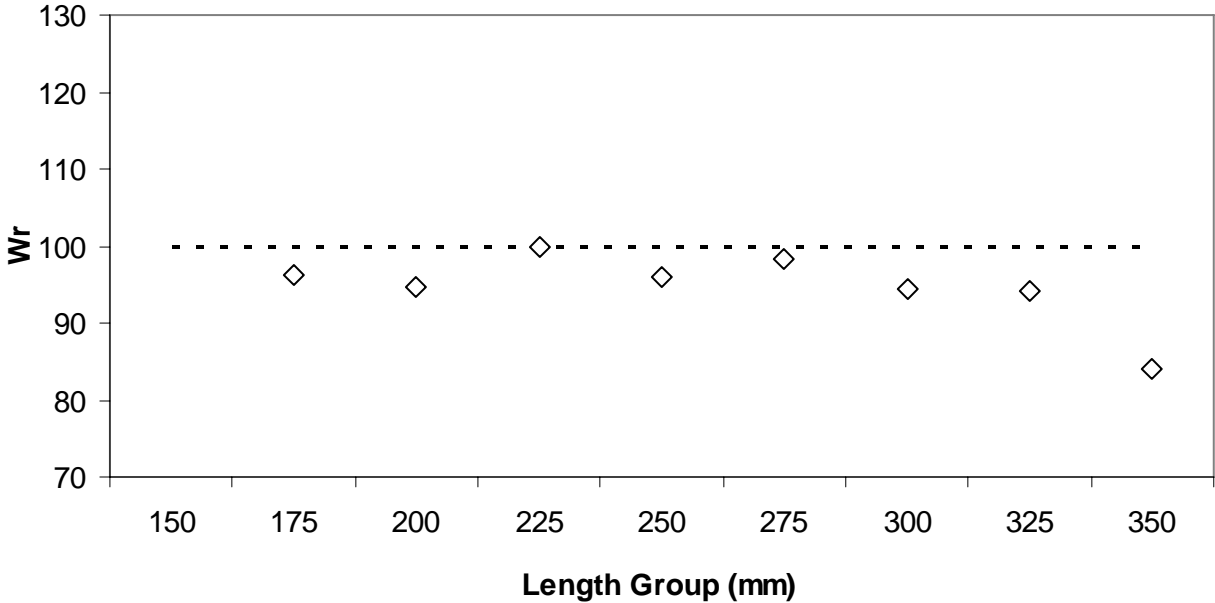


Figure 11. Black crappie mean relative weights (Wr) in South Holston Reservoir, spring 2007.

Appendix A
Water Quality

Table A1. South Holston Reservoir, water quality summary at SFHRM 51, July 5, 2007.

Depth (m)	Temp ©	Cond	DO	Site	Secchi (m)	Time
0	26.3	352	8.4	HRM51	2.8	0930
1	26.2	354	8.7			
2	26.3	354	8.7			
3	26.3	355	8.7			
4	26.3	355	8.7			
5	25.5	357	9.8			
6	26.7	379	9.4			
7	20.1	363	14.8			
8	18.2	367	14.9			
9	16.2	371	10.7			
10	14.4	369	6.3			
11	13.1	368	6.1			
12	12.1	370	6.4			
13	10.8	368	7.1			
14	10.5	366	7.3			
15	10.3	362	7.3			
16	10.1	362	7.3			
17	9.6	364	7.5			
18	9.3	365	7.5			
19	9.0	366	7.6			
20	8.6	367	7.7			
21	8.1	366	7.8			
22	7.6	366	7.9			
23	7.3	366	8.1			
24	7.0	363	8.2			
25	6.8	362	8.3			
26	6.7	361	8.4			
27	6.6	360	8.5			
28	6.5	360	8.6			
29	6.5	359	8.6			
30	6.4	358	8.6			

Table A2. South Holston Reservoir, water quality summary at SFHRM 55, July 5, 2007.

Depth (m)	Temp ©	Cond	DO	Site	Secchi (m)	Time
0	26.7	336	8.4	HRM55	3.1	1030
1	26.7	341	8.5			
2	26.7	345	8.5			
3	26.7	349	8.6			
4	26.7	349	8.6			
5	26.6	351	8.6			
6	22.4	386	6.0			
7	20.5	378	8.0			
8	17.5	373	6.2			
9	15.9	372	5.9			
10	14.9	372	5.7			
11	13.6	371	5.1			
12	12.1	374	5.5			
13	11.3	373	6.0			
14	10.7	372	6.5			
15	10.3	372	6.9			
16	9.9	372	7.0			
17	9.4	371	7.2			
18	9.3	369	7.2			
19	9.0	369	7.2			
20	8.6	370	7.3			
21	8.2	370	7.4			
22	7.7	372	7.4			
23	7.4	371	7.4			
24	7.1	370	7.5			
25	6.9	368	7.3			
26	6.7	367	7.3			
27	6.5	366	7.5			
28	6.5	365	7.6			
29	6.4	363	7.9			
30	6.4	361	8.1			

Table A3. South Holston Reservoir, water quality summary at SFHRM 58, July 5, 2007.

Depth (m)	Temp ©	Cond	DO	Site	Secchi (m)	Time
0	26.8	344	8.4	HRM58	2.0	1100
1	26.8	349	8.5			
2	26.8	351	8.5			
3	26.8	351	8.5			
4	26.7	352	8.5			
5	25.6	364	8.7			
6	22.8	391	4.8			
7	20.7	397	2.5			
8	19.2	390	2.0			
9	17.2	382	2.1			
10	14.2	385	3.3			
11	13.4	382	3.5			
12	12.2	379	4.2			
13	11.5	374	5.1			
14	10.8	376	5.5			
15	10.4	372	6.0			
16	10.1	370	6.2			
17	9.8	369	6.3			
18	9.3	370	6.4			
19	8.7	371	6.4			
20	8.3	372	6.5			
21	8.1	371	6.5			
22	7.5	373	6.6			
23	7.2	373	6.6			
24	7.0	371	6.6			
25	6.8	370	6.6			
26	6.7	368	6.6			
27	6.5	367	6.7			
28	6.5	365	6.7			
29	6.4	362	6.6			
30	6.4	361	6.6			

Table A4. South Holston Reservoir, water quality summary at SFHRM 64, July 5, 2007.

Depth (m)	Temp ©	Cond	DO	Site	Secchi (m)	Time
0	26.6	352	9.2	HRM64	1.5	1200
1	26.6	359	9.3			
2	26.6	360	9.3			
3	26.6	361	9.3			
4	26.6	361	9.3			
5	26.2	372	8.3			
6	23.7	416	3.3			
7	21.8	418	0.7			
8	19.2	409	0.3			
9	17.0	395	0.2			
10	15.1	390	0.5			
11	13.1	382	3.0			
12	11.8	380	3.3			
13	10.9	380	4.7			
14	10.5	374	5.1			
15	10.2	371	5.3			
16	9.9	361	5.7			
17	9.3	364	6.0			
18	8.9	380	5.2			
19	8.4	373	5.6			
20	8.2	371	5.7			
21	7.9	373	5.4			
22	7.6	374	3.2			
23	7.3	375	2.5			
24	7.2	375	2.3			
25	Bottom					
26						
27						
28						
29						
30						

Table A5. South Holston Reservoir, water quality summary at SFHRM 51, August 3, 2007.

Depth (m)	Temp ©	Cond	DO	Site	Secchi (m)	Time
0	26.8	355	8.4	HRM51	3.5	0850
1	26.8	355	8.4			
2	26.8	356	8.5			
3	26.8	356	8.5			
4	26.1	357	9.4			
5	25.6	358	9.5			
6	24.8	360	9.2			
7	23.9	366	9.1			
8	22.1	378	8.3			
9	20.5	372	10.0			
10	17.7	371	8.4			
11	15.8	370	5.1			
12	14.6	370	4.1			
13	13.1	370	4.3			
14	11.9	371	4.6			
15	11.3	369	5.2			
16	10.6	369	5.6			
17	10.3	365	6.0			
18	9.9	364	6.2			
19	9.7	364	6.3			
20	9.5	364	6.4			
21	9.1	363	6.6			
22	8.8	363	6.7			
23	8.4	363	6.8			
24	8.0	364	6.8			
25	7.6	364	6.9			
26	7.3	364	7.1			
27	7.0	363	7.2			
28	6.8	362	7.3			
29	6.6	360	7.5			
30	6.5	360	7.7			

Table A6. South Holston Reservoir, water quality summary at SFHRM 55, August 3, 2007.

Depth (m)	Temp ©	Cond	DO	Site	Secchi (m)	Time
0	26.6	348	8.8	HRM55	3.6	0920
1	26.6	349	8.8			
2	26.5	350	8.8			
3	26.5	351	8.8			
4	26.5	351	8.8			
5	25.5	355	9.1			
6	25.1	351	9.2			
7	23.8	374	6.4			
8	21.5	384	6.0			
9	20.0	391	3.5			
10	17.9	381	3.1			
11	16.5	371	3.6			
12	15.0	375	3.8			
13	13.8	376	3.6			
14	12.6	373	3.9			
15	11.5	370	5.4			
16	10.9	369	5.6			
17	10.5	367	5.8			
18	10.1	366	6.0			
19	9.8	365	6.1			
20	9.3	366	6.1			
21	8.9	366	6.1			
22	8.5	367	6.0			
23	8.0	368	6.1			
24	7.8	368	6.1			
25	7.5	367	6.1			
26	7.2	366	6.2			
27	7.0	365	6.1			
28	6.8	363	6.1			
29	6.7	361	6.4			
30	6.5	359	6.6			

Table A7. South Holston Reservoir, water quality summary at SFHRM 58, August 3, 2007.

Depth (m)	Temp ©	Cond	DO	Site	Secchi (m)	Time
0	26.9	344	9.1	HRM58	2.6	1000
1	26.8	352	9.1			
2	26.7	353	9.1			
3	26.7	354	9.1			
4	25.9	355	9.4			
5	25.5	359	9.5			
6	24.5	370	8.2			
7	23.8	377	4.8			
8	22.6	392	1.7			
9	20.4	397	0.8			
10	18.2	385	0.5			
11	16.5	374	1.5			
12	14.5	371	1.9			
13	13.0	369	2.6			
14	12.2	366	3.4			
15	11.7	356	4.9			
16	11.2	358	4.9			
17	10.6	359	5.0			
18	10.1	358	5.2			
19	9.8	356	5.3			
20	9.5	356	5.2			
21	9.0	357	5.1			
22	8.6	359	5.1			
23	8.1	358	4.9			
24	7.9	358	4.9			
25	7.5	359	4.9			
26	7.3	357	4.9			
27	7.0	357	4.8			
28	6.8	357	4.7			
29	6.6	356	4.5			
30	6.6	355	4.5			

Table A8. South Holston Reservoir, water quality summary at SFHRM 64, August 3, 2007.

Depth (m)	Temp ©	Cond	DO	Site	Secchi (m)	Time
0	26.8	348	10.1	HRM64	2.2	1055
1	26.6	352	10.7			
2	26.5	354	10.8			
3	26.4	354	11.0			
4	25.5	362	10.5			
5	24.7	370	8.8			
6	24.2	378	5.5			
7	23.8	391	4.3			
8	22.7	394	4.0			
9	20.9	388	4.1			
10	18.6	390	3.0			
11	17.2	393	1.2			
12	14.8	390	0.4			
13	13.2	382	0.5			
14	12.4	377	1.6			
15	11.4	374	2.8			
16	10.8	371	3.3			
17	10.4	368	3.8			
18	10.2	365	4.1			
19	9.9	361	4.4			
20	9.5	358	4.3			
21	9.1	360	4.1			
22	8.7	359	2.2			
23	8.5	361	1.0			
24	Bottom					
25						
26						
27						
28						
29						
30						

Table A9. South Holston Reservoir, water quality summary at SFHRM 51, September 5, 2007.

Depth (m)	Temp ©	Cond	DO	Site	Secchi (m)	Time
0	28.1	327	9.9	HRM51	3.3	1425
1	27.7	326	10.0			
2	27.4	325	10.1			
3	27.3	324	10.1			
4	27.2	323	10.0			
5	27.2	323	10.0			
6	27.1	322	10.0			
7	26.9	323	10.0			
8	25.8	333	10.3			
9	23.4	338	10.6			
10	21.3	336	9.0			
11	20.1	333	7.7			
12	18.0	331	5.5			
13	16.4	328	3.7			
14	14.9	328	3.4			
15	13.6	328	3.2			
16	12.6	324	3.3			
17	11.9	321	3.6			
18	11.3	320	4.1			
19	10.7	320	4.6			
20	10.4	319	4.9			
21	10.1	318	5.3			
22	9.7	318	5.5			
23	9.3	319	5.6			
24	8.9	320	5.7			
25	8.5	320	5.8			
26	8.1	320	5.8			
27	7.6	321	5.8			
28	7.3	320	5.9			
29	7.0	318	5.9			
30	6.8	317	6.0			

Table A10. South Holston Reservoir, water quality summary at SFHRM 55, September 5, 2007.

Depth (m)	Temp ©	Cond	DO	Site	Secchi (m)	Time
0	27.9	314	9.9	HRM55	3.1	1450
1	27.6	314	10.1			
2	27.2	315	10.2			
3	27.1	315	10.1			
4	27.0	315	10.0			
5	27.0	316	9.9			
6	26.9	316	9.8			
7	26.8	318	9.8			
8	25.6	337	8.2			
9	22.7	340	5.4			
10	21.7	336	5.3			
11	19.8	325	5.3			
12	18.1	322	3.1			
13	16.5	318	2.2			
14	15.0	320	2.0			
15	13.6	320	2.0			
16	12.6	315	2.9			
17	11.9	314	3.6			
18	11.2	314	4.0			
19	10.8	313	4.7			
20	10.4	313	5.0			
21	10.0	314	5.2			
22	9.6	313	5.1			
23	9.3	313	5.0			
24	8.9	314	4.9			
25	8.5	314	4.9			
26	8.1	315	4.6			
27	7.8	315	4.5			
28	7.5	316	4.5			
29	7.1	316	4.4			
30	6.9	316	4.4			

Table A11. South Holston Reservoir, water quality summary at SFHRM 58, September 5, 2007.

Depth (m)	Temp ©	Cond	DO	Site	Secchi (m)	Time
0	28.0	287	7.2	HRM58	2.2	1525
1	27.6	288	7.8			
2	27.3	289	7.8			
3	27.1	289	7.7			
4	27.0	289	7.7			
5	26.9	290	7.7			
6	26.9	290	7.7			
7	26.7	299	7.7			
8	25.1	325	7.7			
9	23.5	319	0.4			
10	21.8	317	0.3			
11	19.9	314	0.3			
12	18.3	211	0.2			
13	16.5	305	0.2			
14	15.0	305	0.2			
15	13.5	307	0.2			
16	12.6	306	0.2			
17	11.9	305	0.2			
18	11.2	304	0.2			
19	10.8	304	0.3			
20	10.4	304	0.4			
21	10.0	303	0.7			
22	9.6	303	1.1			
23	9.2	303	1.4			
24	8.8	303	1.7			
25	8.3	305	1.9			
26	8.1	305	2.2			
27	7.7	307	2.4			
28	7.4	308	2.6			
29	7.1	308	2.6			
30	6.9	308	2.7			

No measurements taken at SFHRM 64 in September 2007.

Figure A1. S. Holston Reservoir water quality data at HRM 51, July 2007.

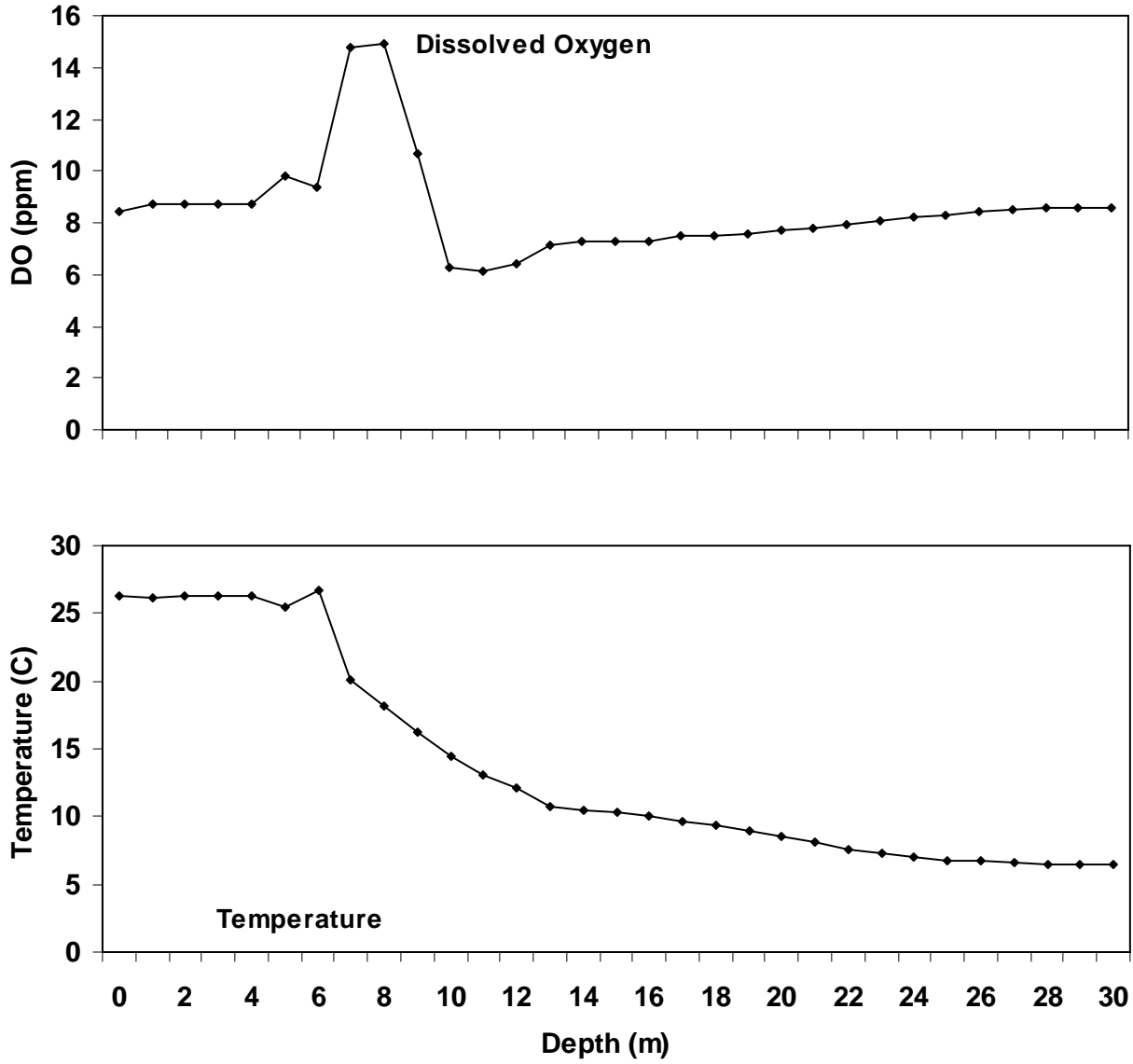


Figure A2. S. Holston Reservoir water quality data at HRM 55, July 2007.

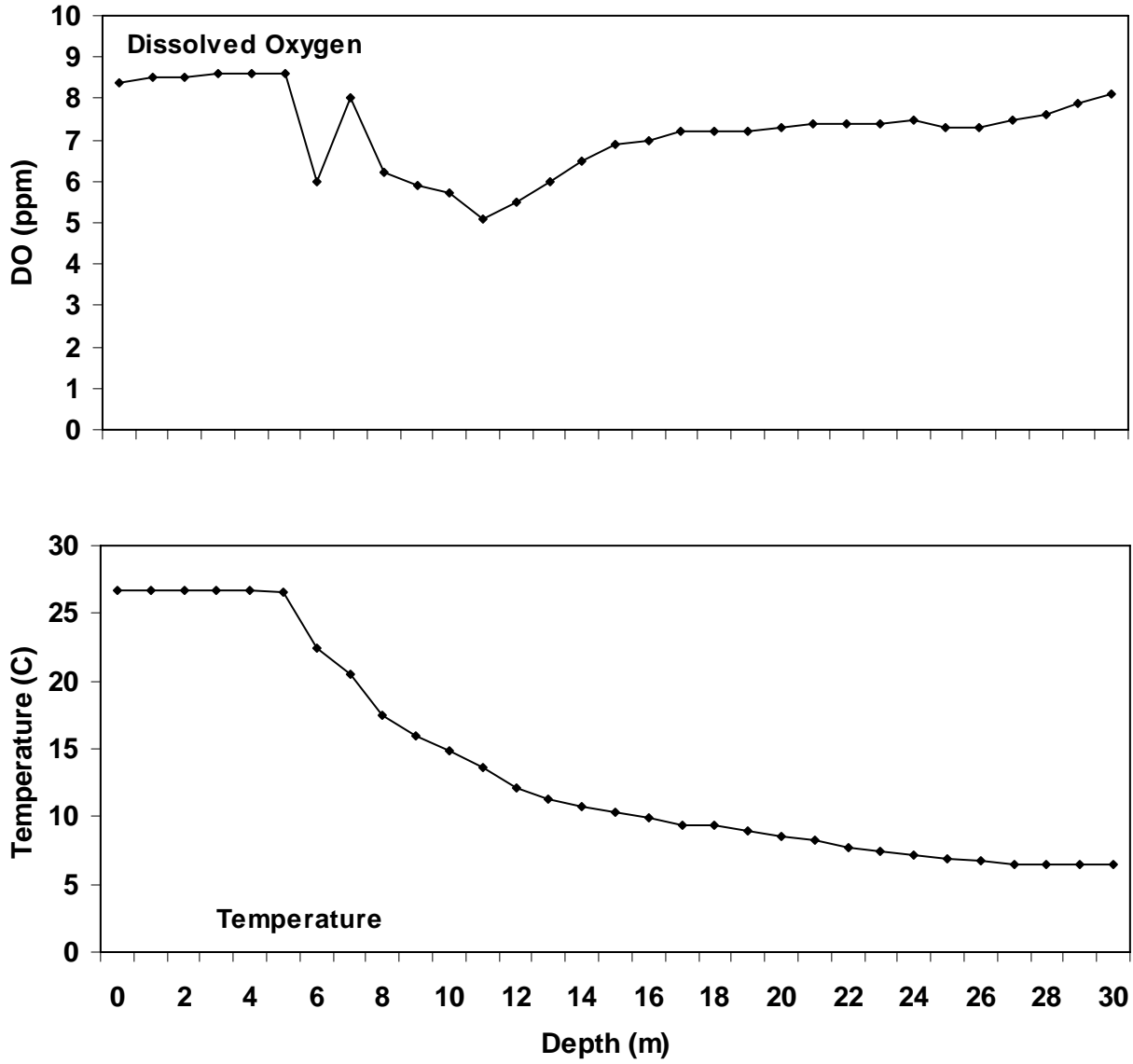


Figure A3. S. Holston Reservoir water quality data at HRM 58, July 2007.

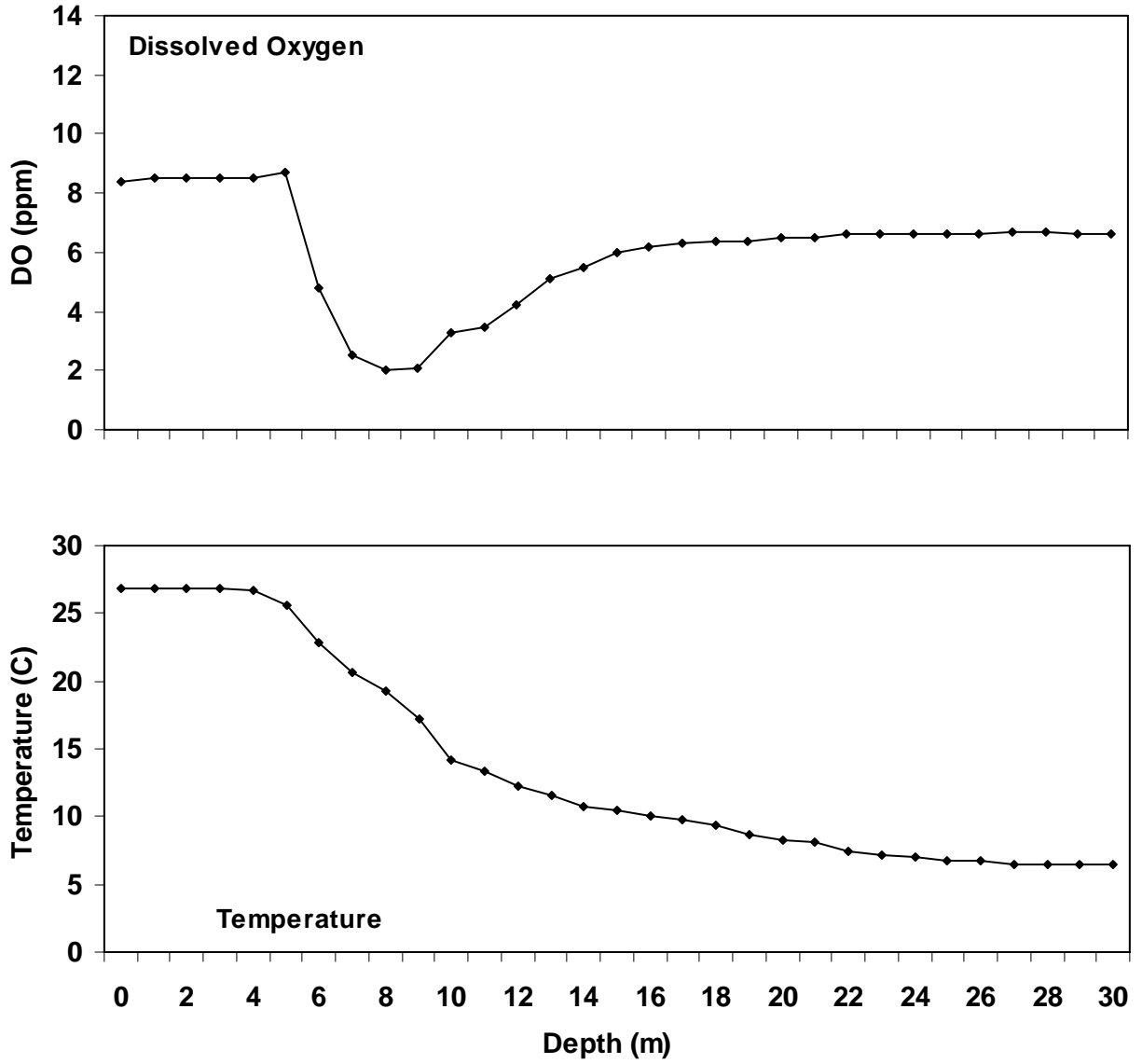


Figure A4. S. Holston Reservoir water quality data at HRM 64, July 2007.

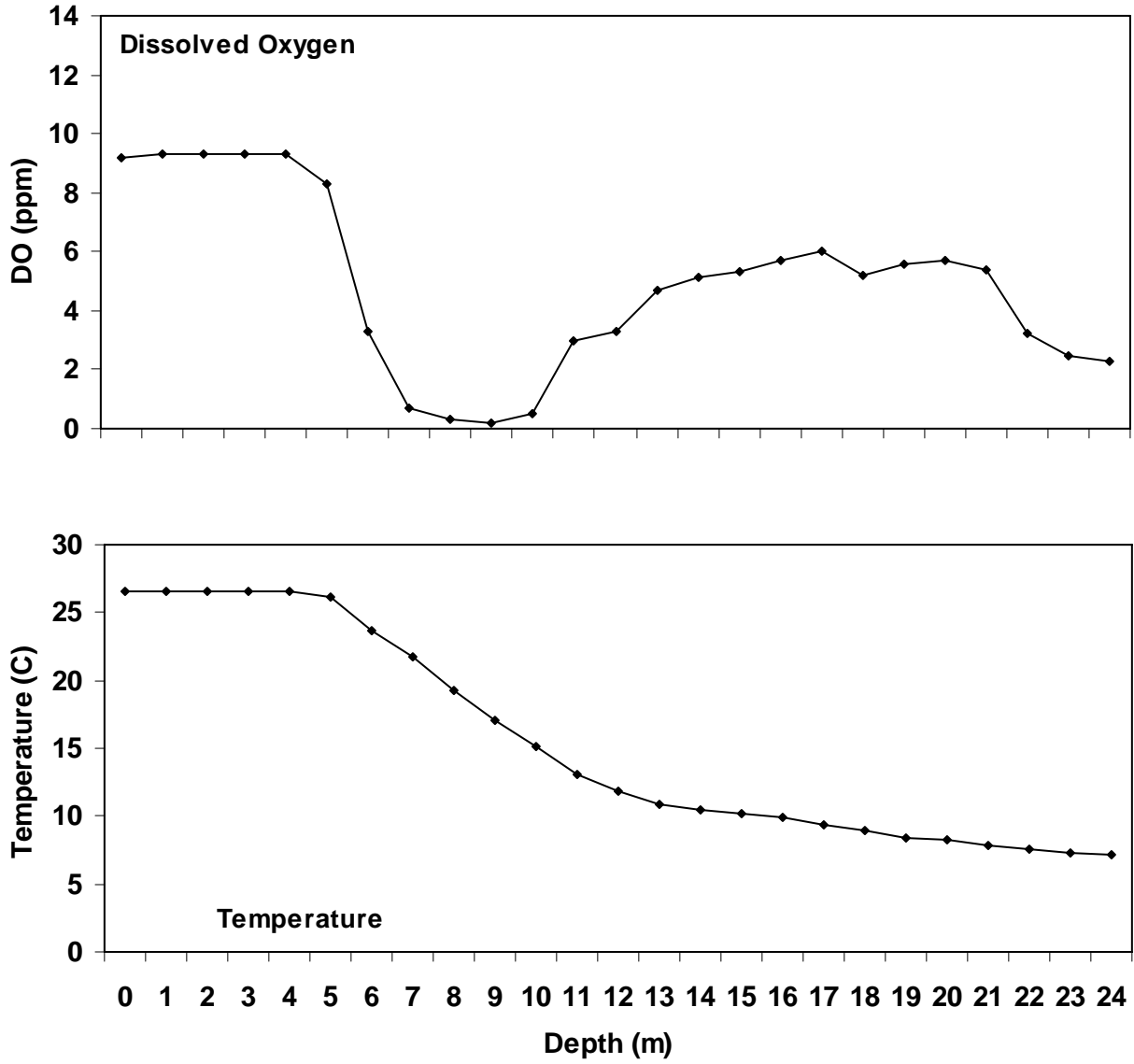


Figure A4. S. Holston Reservoir water quality data at HRM 51, August 2007.

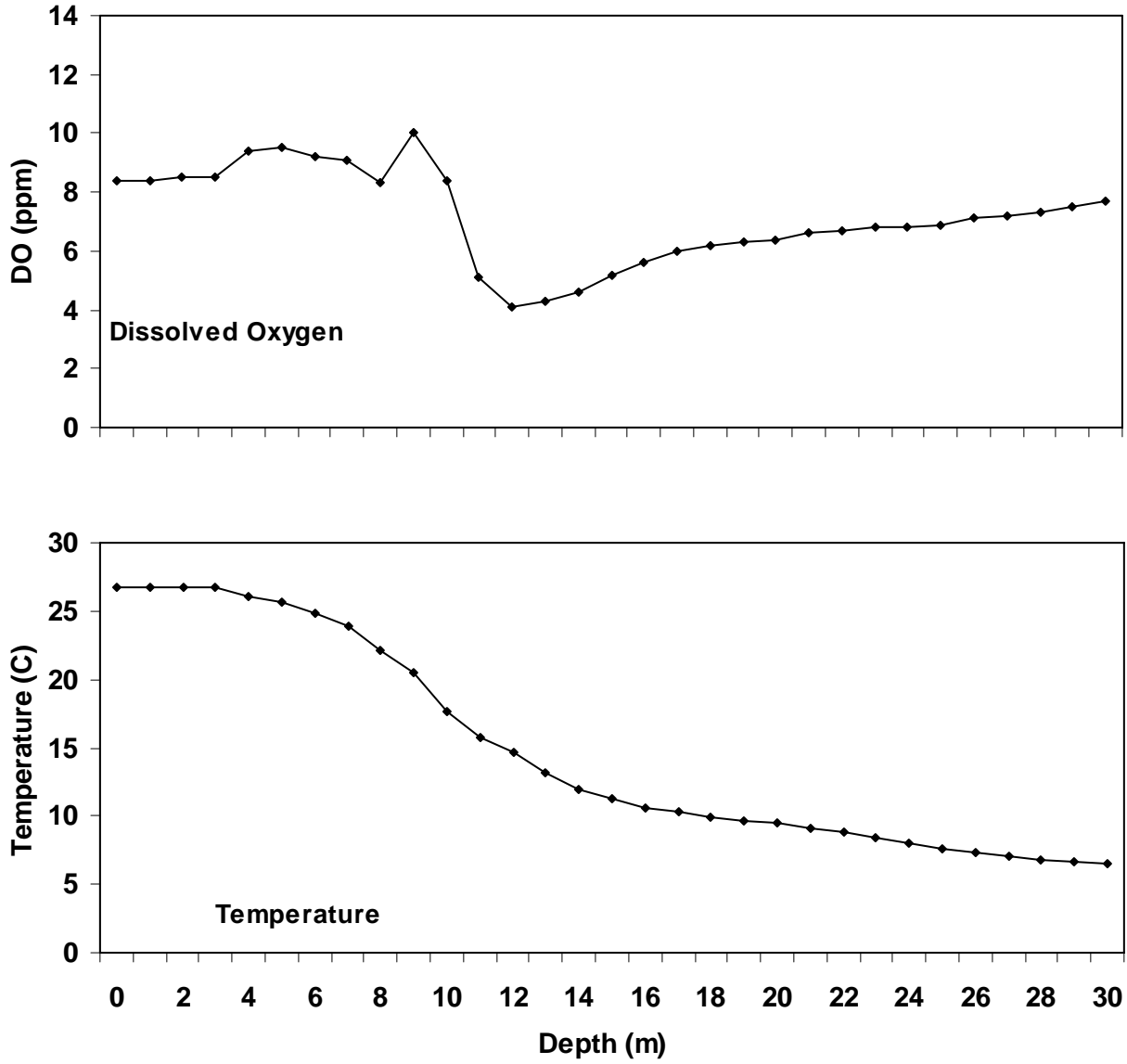


Figure A5. S. Holston Reservoir water quality data at HRM 55, August 2007.

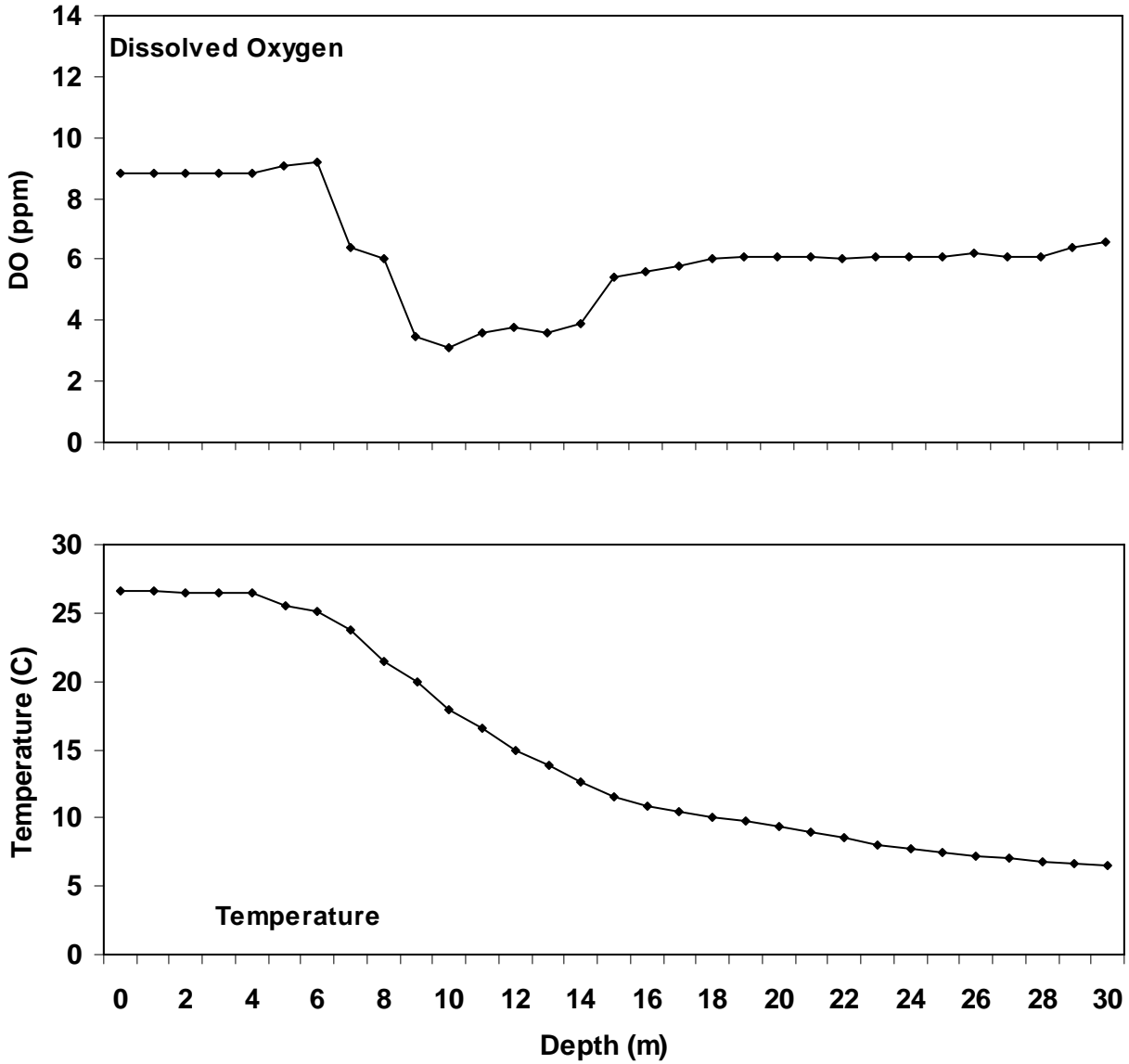


Figure A6. S. Holston Reservoir water quality data at HRM 58, August 2007.

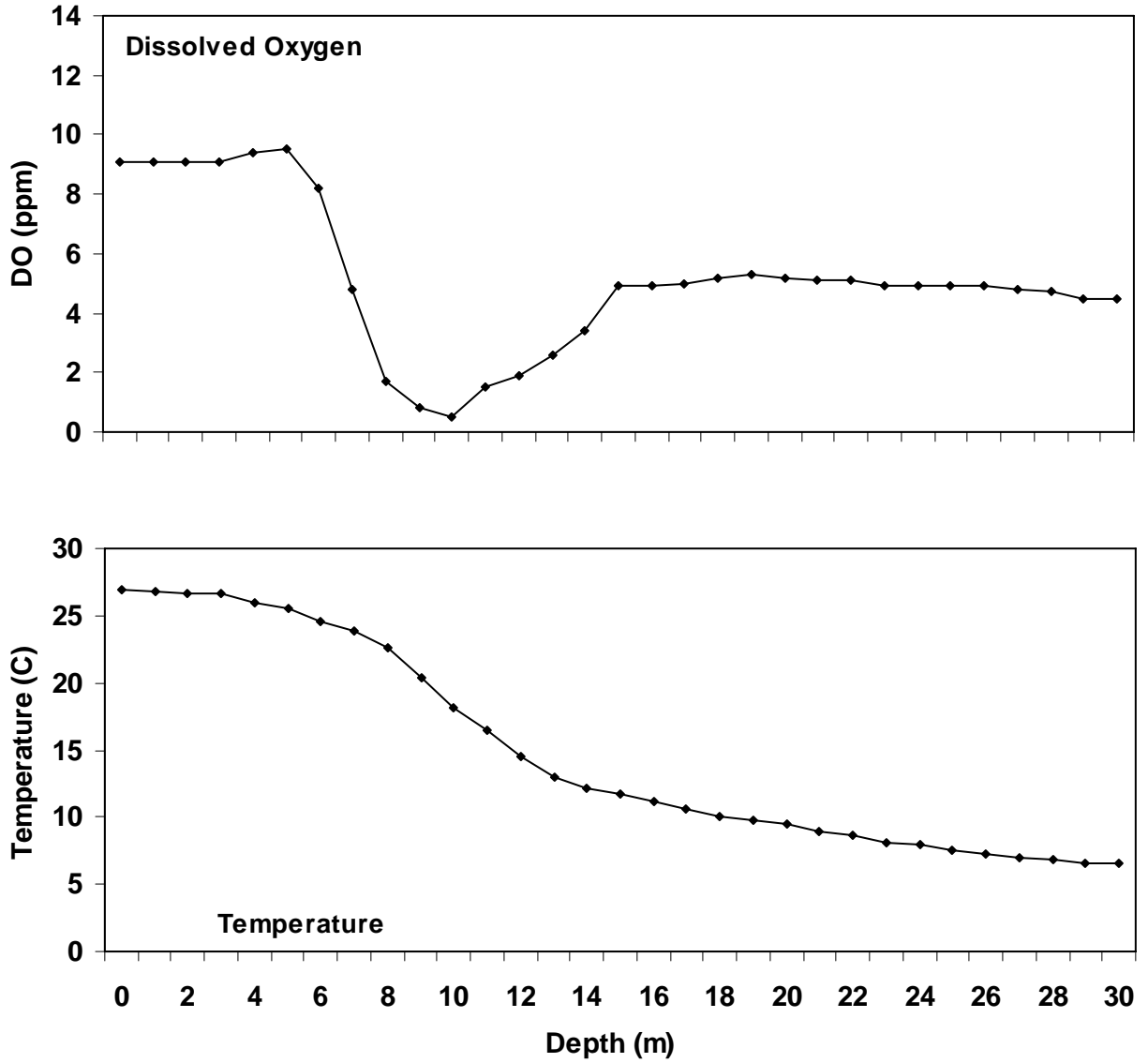


Figure A7. S. Holston Reservoir water quality data at HRM 64, August 2007.

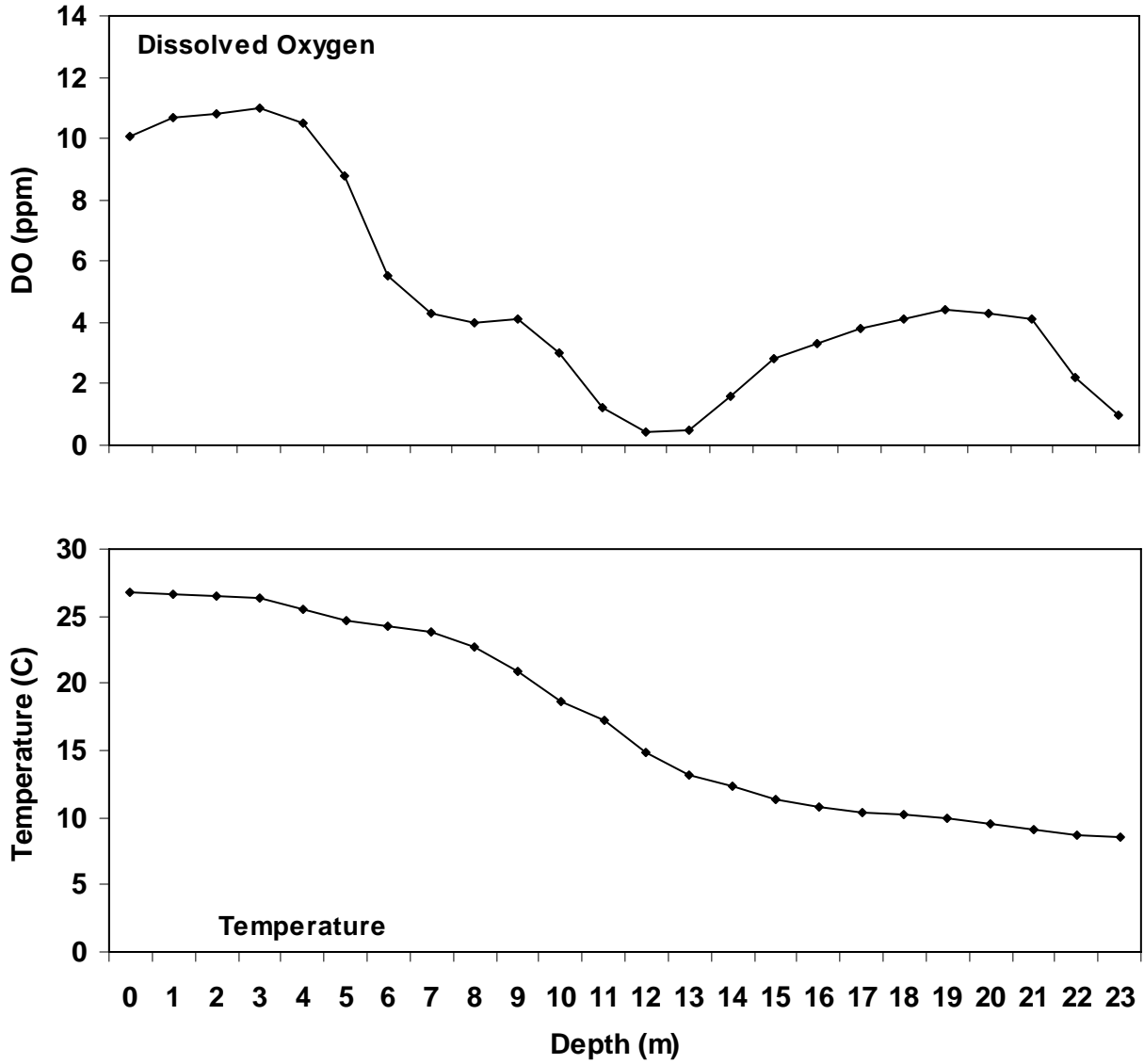


Figure A8. S. Holston Reservoir water quality data at HRM 51, September 2007.

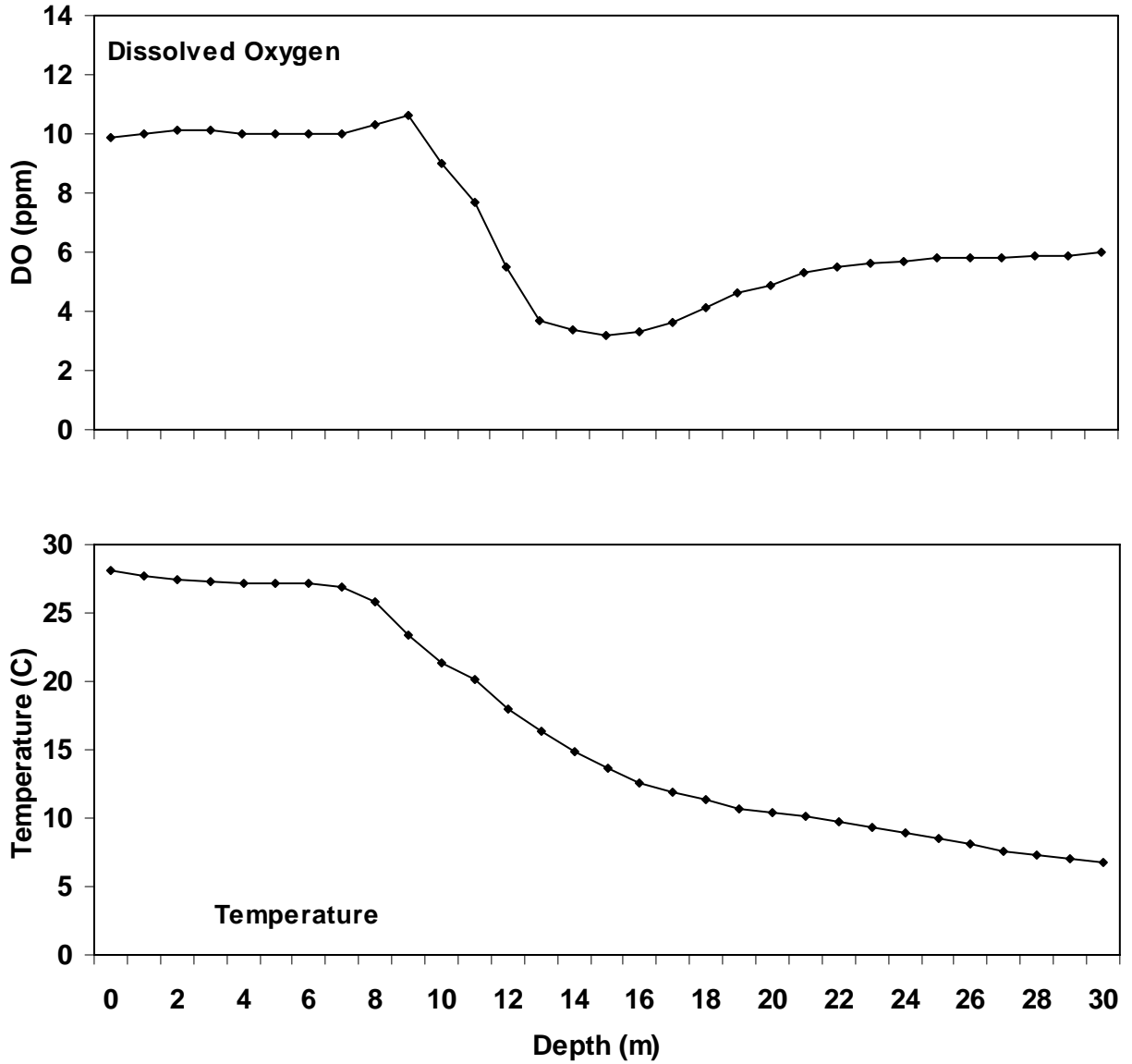


Figure A9. S. Holston Reservoir water quality data at HRM 55, September 2007.

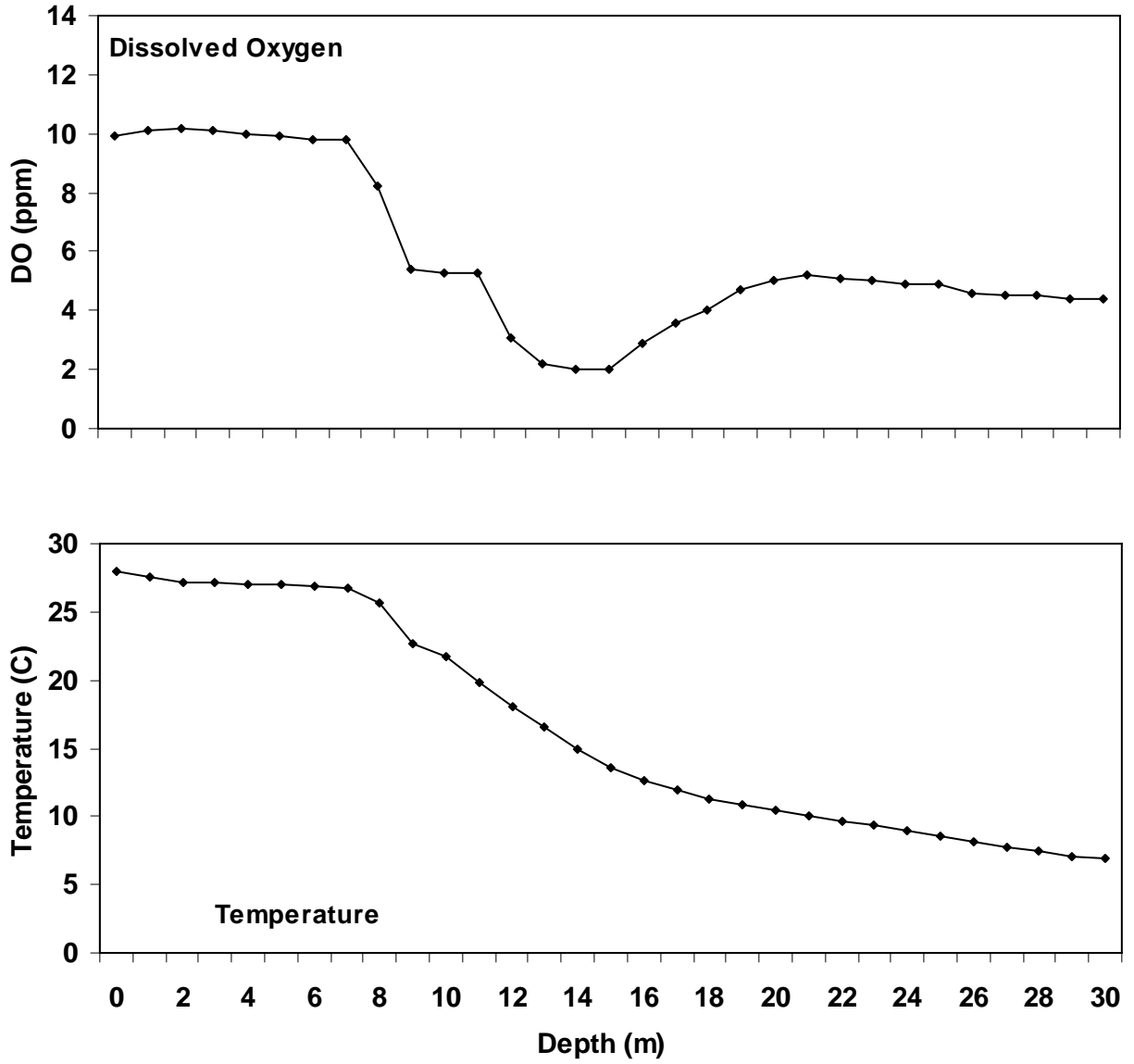
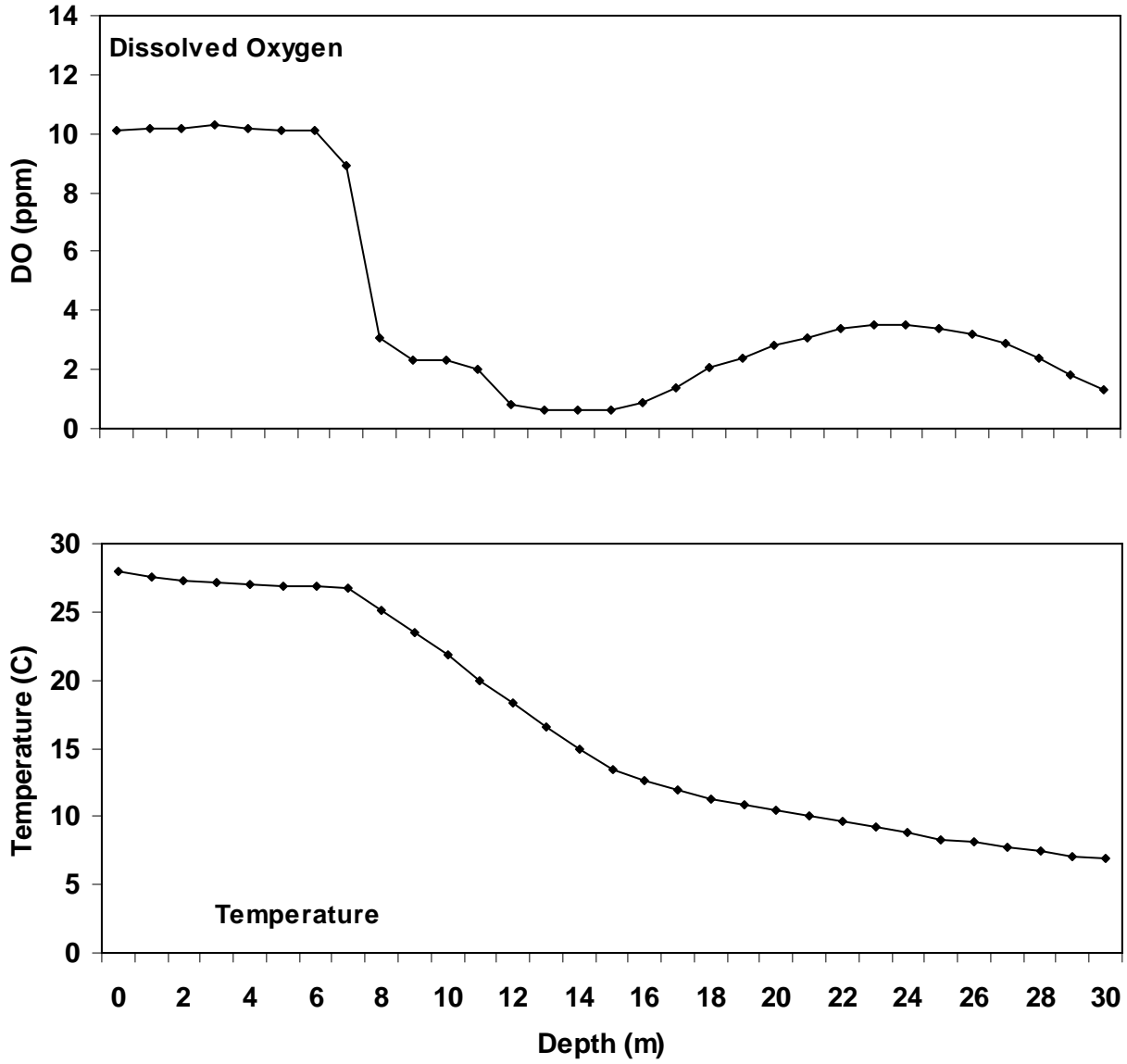


Figure A10. S. Holston Reservoir water quality data at HRM 58, September 2007.



Appendix B
South Holston Daily Elevations

Table B1. S. Holston Reservoir elevation data for 2007. Data is courtesy of TVA.

Elevation	Month	Day	Elevation	Month	Day	Elevation	Month	Day
1708.65	January	1	1705.70	February	24	1719.71	April	19
1708.58	January	2	1705.98	February	25	1720.07	April	20
1708.34	January	3	1706.15	February	26	1720.39	April	21
1707.97	January	4	1706.29	February	27	1720.67	April	22
1707.64	January	5	1706.42	February	28	1720.90	April	23
1707.59	January	6	1706.63	March	1	1721.15	April	24
1707.57	January	7	1707.34	March	2	1721.38	April	25
1707.59	January	8	1708.06	March	3	1721.58	April	26
1708.18	January	9	1708.53	March	4	1721.75	April	27
1708.27	January	10	1708.77	March	5	1721.87	April	28
1707.99	January	11	1708.96	March	6	1722.01	April	29
1707.72	January	12	1709.10	March	7	1722.13	April	30
1707.97	January	13	1709.21	March	8	1722.24	May	1
1708.19	January	14	1709.30	March	9	1722.33	May	2
1707.84	January	15	1709.40	March	10	1722.42	May	3
1707.48	January	16	1709.48	March	11	1722.50	May	4
1707.23	January	17	1709.56	March	12	1722.62	May	5
1706.91	January	18	1709.33	March	13	1722.73	May	6
1706.61	January	19	1709.39	March	14	1722.78	May	7
1706.76	January	20	1709.48	March	15	1722.86	May	8
1706.97	January	21	1710.20	March	16	1722.95	May	9
1706.93	January	22	1711.22	March	17	1723.03	May	10
1706.93	January	23	1711.81	March	18	1723.11	May	11
1706.92	January	24	1712.19	March	19	1723.07	May	12
1706.87	January	25	1712.51	March	20	1723.00	May	13
1706.79	January	26	1712.75	March	21	1722.96	May	14
1706.90	January	27	1712.95	March	22	1722.90	May	15
1706.99	January	28	1713.19	March	23	1722.88	May	16
1706.87	January	29	1713.41	March	24	1722.84	May	17
1706.75	January	30	1713.62	March	25	1722.75	May	18
1706.51	January	31	1713.81	March	26	1722.79	May	19
1706.22	February	1	1713.98	March	27	1722.85	May	20
1706.20	February	2	1714.15	March	28	1722.96	May	21
1706.28	February	3	1714.33	March	29	1722.98	May	22
1706.28	February	4	1714.51	March	30	1722.94	May	23
1705.74	February	5	1714.69	March	31	1722.89	May	24
1705.25	February	6	1714.85	April	1	1722.71	May	25
1705.10	February	7	1715.00	April	2	1722.65	May	26
1704.64	February	8	1715.11	April	3	1722.63	May	27
1704.18	February	9	1715.33	April	4	1722.48	May	28
1704.13	February	10	1715.48	April	5	1722.34	May	29
1704.22	February	11	1715.64	April	6	1722.24	May	30
1704.33	February	12	1715.75	April	7	1722.10	May	31
1704.44	February	13	1715.88	April	8	1721.97	June	1
1704.51	February	14	1715.99	April	9	1721.92	June	2
1704.51	February	15	1716.11	April	10	1721.86	June	3
1704.46	February	16	1716.28	April	11	1721.75	June	4
1704.49	February	17	1716.46	April	12	1721.64	June	5
1704.50	February	18	1716.67	April	13	1721.54	June	6
1704.30	February	19	1716.91	April	14	1721.27	June	7
1704.26	February	20	1717.39	April	15	1720.96	June	8
1704.64	February	21	1718.17	April	16	1720.79	June	9
1705.08	February	22	1718.81	April	17	1720.61	June	10
1705.42	February	23	1719.31	April	18	1720.21	June	11

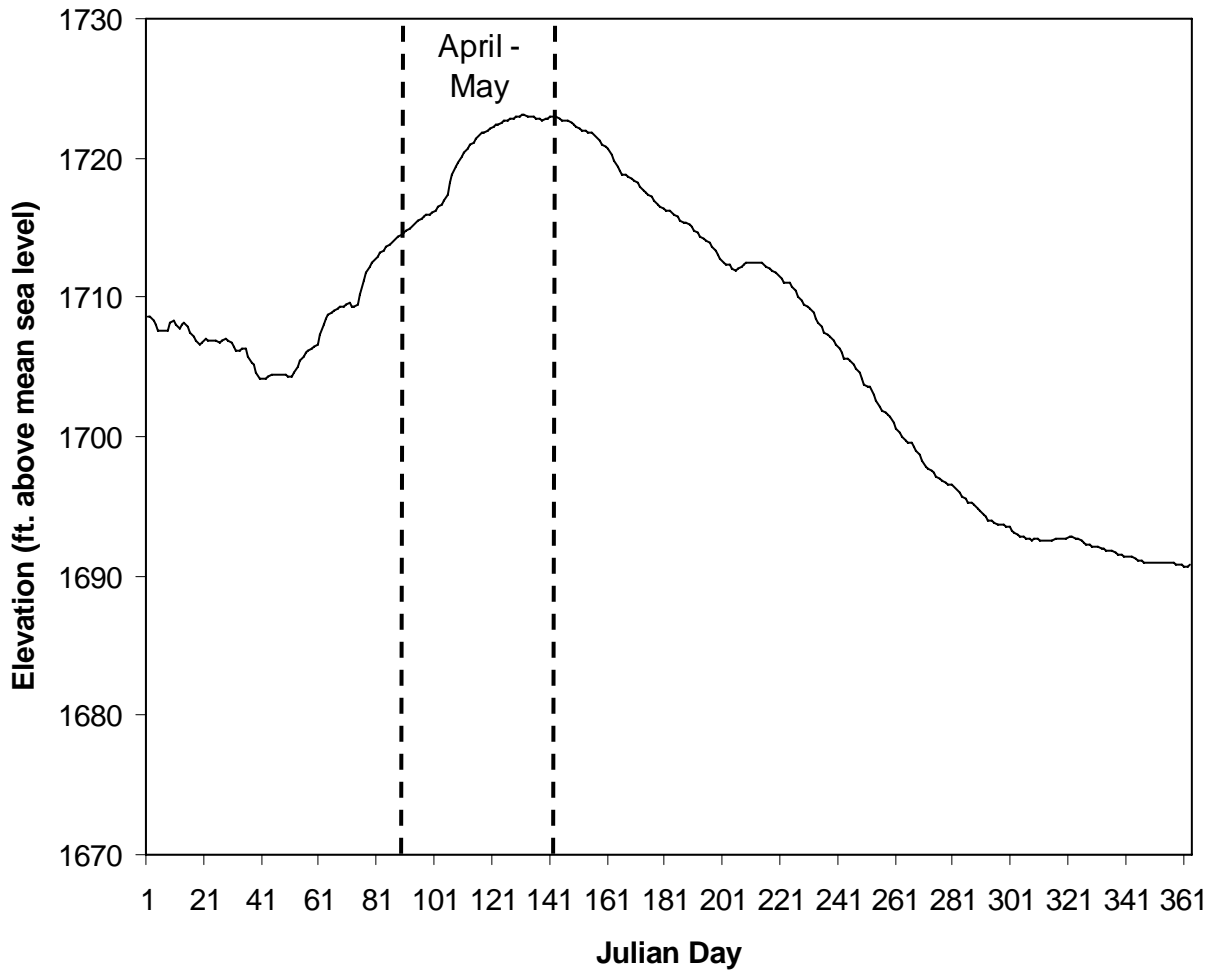
Table B1. Continued.

Elevation	Month	Day	Elevation	Month	Day	Elevation	Month	Day
1719.76	June	12	1712.06	August	5	1697.91	September	28
1719.34	June	13	1711.88	August	6	1697.65	September	29
1719.06	June	14	1711.72	August	7	1697.59	September	30
1718.86	June	15	1711.57	August	8	1697.39	October	1
1718.80	June	16	1711.39	August	9	1697.17	October	2
1718.71	June	17	1711.12	August	10	1697.01	October	3
1718.55	June	18	1711.05	August	11	1696.85	October	4
1718.41	June	19	1711.03	August	12	1696.67	October	5
1718.17	June	20	1710.71	August	13	1696.53	October	6
1717.92	June	21	1710.41	August	14	1696.51	October	7
1717.68	June	22	1710.11	August	15	1696.35	October	8
1717.58	June	23	1709.83	August	16	1696.18	October	9
1717.44	June	24	1709.54	August	17	1695.97	October	10
1717.19	June	25	1709.38	August	18	1695.73	October	11
1716.94	June	26	1709.23	August	19	1695.53	October	12
1716.70	June	27	1708.84	August	20	1695.26	October	13
1716.50	June	28	1708.49	August	21	1695.25	October	14
1716.30	June	29	1708.19	August	22	1695.08	October	15
1716.29	June	30	1707.88	August	23	1694.85	October	16
1716.20	July	1	1707.49	August	24	1694.65	October	17
1716.03	July	2	1707.38	August	25	1694.46	October	18
1715.87	July	3	1707.23	August	26	1694.23	October	19
1715.73	July	4	1706.90	August	27	1693.98	October	20
1715.57	July	5	1706.60	August	28	1693.94	October	21
1715.42	July	6	1706.29	August	29	1693.76	October	22
1715.30	July	7	1706.02	August	30	1693.73	October	23
1715.22	July	8	1705.65	August	31	1693.69	October	24
1715.01	July	9	1705.54	September	1	1693.65	October	25
1714.77	July	10	1705.51	September	2	1693.58	October	26
1714.61	July	11	1705.21	September	3	1693.47	October	27
1714.40	July	12	1704.92	September	4	1693.31	October	28
1714.16	July	13	1704.62	September	5	1693.16	October	29
1714.03	July	14	1704.22	September	6	1693.03	October	30
1713.91	July	15	1703.80	September	7	1692.89	October	31
1713.61	July	16	1703.55	September	8	1692.79	November	1
1713.32	July	17	1703.53	September	9	1692.67	November	2
1713.05	July	18	1703.05	September	10	1692.65	November	3
1712.78	July	19	1702.59	September	11	1692.60	November	4
1712.52	July	20	1702.17	September	12	1692.61	November	5
1712.40	July	21	1701.91	September	13	1692.61	November	6
1712.30	July	22	1701.68	September	14	1692.60	November	7
1712.07	July	23	1701.52	September	15	1692.57	November	8
1711.97	July	24	1701.37	September	16	1692.58	November	9
1712.05	July	25	1701.01	September	17	1692.58	November	10
1712.19	July	26	1700.64	September	18	1692.59	November	11
1712.34	July	27	1700.31	September	19	1692.61	November	12
1712.43	July	28	1699.96	September	20	1692.64	November	13
1712.54	July	29	1699.65	September	21	1692.68	November	14
1712.54	July	30	1699.55	September	22	1692.73	November	15
1712.53	July	31	1699.56	September	23	1692.75	November	16
1712.51	August	1	1699.29	September	24	1692.76	November	17
1712.49	August	2	1698.97	September	25	1692.78	November	18
1712.38	August	3	1698.66	September	26	1692.70	November	19
1712.23	August	4	1698.34	September	27	1692.62	November	20

Table B1. Continued.

Elevation	Month	Day
1692.51	November	21
1692.42	November	22
1692.31	November	23
1692.23	November	24
1692.17	November	25
1692.13	November	26
1692.04	November	27
1691.96	November	28
1691.91	November	29
1691.80	November	30
1691.76	December	1
1691.75	December	2
1691.63	December	3
1691.57	December	4
1691.53	December	5
1691.44	December	6
1691.41	December	7
1691.38	December	8
1691.37	December	9
1691.27	December	10
1691.16	December	11
1691.09	December	12
1691.01	December	13
1690.94	December	14
1690.99	December	15
1691.01	December	16
1691.02	December	17
1690.95	December	18
1690.95	December	19
1690.93	December	20
1690.93	December	21
1690.93	December	22
1690.89	December	23
1690.87	December	24
1690.85	December	25
1690.75	December	26
1690.66	December	27
1690.67	December	28
1690.83	December	29
1691.04	December	30
1691.21	December	31

Figure B1. S. Holston Reservoir daily reservoir elevations for 2007 (TVA data).



Appendix C
Angler Creel Surveys

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2007

LAKE=SOUTH HOLSTON

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	6850	13.3	1.1	1049	0.2	5.6
02 FEBRUARY	6944	23.1	1.1	1028	0.2	5.7
03 MARCH	10851	16.6	1.7	1772	0.3	8.9
04 APRIL	11188	24.6	1.8	1762	0.3	9.2
05 MAY	12628	16.0	2.0	1988	0.3	10.4
06 JUNE	12612	22.3	2.0	1958	0.3	10.3
07 JULY	16656	15.3	2.6	2525	0.4	13.7
08 AUGUST	8865	9.0	1.4	1369	0.2	7.3
09 SEPTEMBER	10775	20.1	1.7	1632	0.3	8.8
10 OCTOBER	7719	15.0	1.2	1213	0.2	6.3
11 NOVEMBER	7839	13.7	1.2	1229	0.2	6.4
12 DECEMBER	8999	23.6	1.4	1341	0.2	7.4
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TOTAL	121926			18866		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2007

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	1096	21.7	0.16	16.7	137	30.4	0.02	34.1
02 FEBRUARY	1805	27.5	0.26	14.7	347	55.6	0.05	51.8
03 MARCH	1736	22.3	0.16	15.0	434	31.8	0.04	28.0
04 APRIL	1119	34.8	0.10	23.9	224	44.4	0.02	35.1
05 MAY	1515	28.2	0.12	22.7	126	44.0	0.01	30.9
06 JUNE	1640	39.4	0.13	31.9	252	34.4	0.02	28.9
07 JULY	2165	27.9	0.13	22.4	333	41.9	0.02	50.4
08 AUGUST	1064	37.1	0.12	36.5	177	20.1	0.02	16.2
09 SEPTEMBER	2586	39.6	0.24	33.7	216	42.3	0.02	39.9
10 OCTOBER	2084	34.1	0.27	30.6	1389	54.3	0.18	52.0
11 NOVEMBER	1568	22.2	0.20	17.0	314	51.8	0.04	48.5
12 DECEMBER	1530	35.7	0.17	26.0	180	77.6	0.02	62.4
----- TOTAL	19908				4129			

SUMMARY OF SPECIES CATCH STATISTICS - 2007

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	741	91.2	3.7	456	483	96.5	11.7	446	34.8	2.93	13
FLATHEAD CATFISH	85	186.7	0.4	57	85	186.7	2.1	57	0.0	10.73	3
MUSKELLUNGE	66	467.3	0.3	0	0	.	0.0	0	100.0	.	0
RAINBOW TROUT	587	97.4	2.9	281	251	76.5	6.1	251	57.2	1.65	8
BROWN TROUT	370	146.2	1.8	44	36	351.2	0.9	36	90.3	1.70	1
BLUEGILL	1343	78.7	6.7	746	209	85.8	5.1	149	84.4	0.26	7
SMALLMOUTH BASS	11527	11.0	57.2	11346	1632	29.8	39.5	1559	85.8	2.44	45
LARGEMOUTH BASS	3741	22.1	18.6	3692	422	59.6	10.2	422	88.7	2.11	10
BLACK CRAPPIE	670	112.6	3.3	542	417	129.7	10.1	417	37.8	0.89	12
WALLEYE	1009	59.8	5.0	584	598	57.8	14.5	598	40.7	3.35	18

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

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	3106	24.5	480	2.5	0.12		0.12		9
RAINBOW TROUT	368	78.9	58	0.3	0.00		0.00		3
ANY TROUT	10099	15.7	1574	8.3	0.08	95.5	0.06	100.8	53
ANY SUNFISH	792	56.5	120	0.6	1.52		0.35		2
ANY BLACK BASS	64527	6.8	9989	52.9	0.26	16.5	0.01	105.7	309
SMALLMOUTH BASS	4376	21.7	669	3.6	0.25	27.9	0.14	61.2	27
LARGEMOUTH BASS	280	97.9	42	0.2	0.25		0.25		1
ANY CRAPPIE	7564	17.3	1174	6.2	0.13	78.6	0.09	79.0	47
WALLEYE	21543	10.9	3335	17.7	0.04	77.4	0.04	85.8	102
ANY SPECIES	9271	15.9	1427	7.6	0.11	102.9	0.03	188.4	52
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TOTAL	121926		18868						

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

LAKE=SOUTH HOLSTON

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH	CHANNEL CATFISH	0.11	0.11
	FLATHEAD CATFISH	0.01	0.01
ANY TROUT	RAINBOW TROUT	0.07	0.05
	BROWN TROUT	0.01	0.01
ANY SUNFISH	BLUEGILL	1.52	0.35
ANY BLACK BASS	SMALLMOUTH BASS	0.16	0.02
	LARGEMOUTH BASS	0.05	0.01
	LARGEMOUTH BASS	0.05	0.01
ANY CRAPPIE	BLACK CRAPPIE	0.13	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	14	0.32	6	0.27	26
02 FEBRUARY	17	0.32	4	0.28	20
03 MARCH	0		0	0.22	32
04 APRIL	0		0	0.22	25
05 MAY	7	0.21	3	0.23	29
06 JUNE	28	0.41	4	0.19	21
07 JULY	0		0	0.27	33
08 AUGUST	0		0	0.14	21
09 SEPTEMBER	27	0.35	5	0.32	24
10 OCTOBER	0		0	0.27	25
11 NOVEMBER	0		0	0.29	31
12 DECEMBER	37	0.41	7	0.27	21

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

LAKE=SOUTH HOLSTON

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	2960	1770	4730	9
RAINBOW TROUT	780	870	1650	3
ANY TROUT	12740	13250	25990	53
ANY SUNFISH	530	420	960	1
ANY BLACK BASS	136890	73650	210540	308
SMALLMOUTH BASS	6160	5350	11510	27
LARGEMOUTH BASS	1270	210	1490	1
ANY CRAPPIE	11200	11800	23000	47
WALLEYE	37930	32060	69990	102
ANY SPECIES	6180	14020	20200	51
TOTAL	216640	153400	370060	602

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2007

LAKE=SOUTH HOLSTON

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	758	73.2
VA	262	25.3
OTHERS	16	1.5

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
CARTER	59	7.8
JOHNSON	83	11.0
SULLIVAN	555	73.6
WASHINGTON	53	7.0
OTHERS IN TN	4	0.5

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	880	84.9
B) 26-100	140	13.5
C) 101-250	9	0.9
D) > 250	7	0.7

DISTRIBUTION OF REASONS WHY INTERVIEWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	601	99.5
B) VACATION	3	0.5

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	601	99.3
B) 2-5	4	0.7