

**Watauga Reservoir**  
**Annual Report 2005**

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## Largemouth Bass

Population Parameter	Annual Rating	Measure	Gear	Value
Recruitment	Poor	Sub-stock CPUE	Electrofishing	0.6 fish/hr.
Growth		Mean TL at Age-3	Electrofishing	
	Good	RSD-P (381 mm)	Electrofishing	64%
Density	Good	CPUE $\geq$ Stock Size (203 mm)	Electrofishing	14.5 fish/hr.
	Good	CPUE $\geq$ Minimum Size Limit	Electrofishing	11.9 fish/hr.
Mortality		Total Mortality (Z)	Electrofishing	
Angling Pressure	Moderate	Fishing Effort (# of hours)	Creel Survey	78,384*
Fishing Success	Fair	Angler Catch Rate (# fish/hr)	Creel Survey	0.34*
Value of Fishery	Excellent	Trip Expenditures	Creel Survey	\$161,580*

\* any black bass species

### *Fishery Forecast:*

As the same in South Holston, our largemouth bass catch rates are never very high. This smaller population size increases the percentage of largemouth bass between 15 and 20 inches. Although the densities of largemouth are not very high, the quality of the fishery is excellent which should remain stable for the 2006 season.

### *Management Recommendations:*

No change to the current 305 mm (12-inch) minimum length limit.

## Smallmouth 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>246 mm</i>
	Excellent	RSD-P (356 mm)	Electrofishing	71%
Density	Fair	CPUE $\geq$ Stock Size (178 mm)	Electrofishing	13.7 fish/hr.
	Fair	CPUE $\geq$ Minimum Size Limit	Electrofishing	10.9 fish/hr.
<i>Mortality*</i>	<i>Moderate</i>	<i>Total Mortality (Z)</i>	<i>Electrofishing</i>	<i>48%</i>
Angling Pressure	Moderate	Fishing Effort (# of hours)	Creel Survey	78,384**
Fishing Success	Fair	Angler Catch Rate (# fish/hr)	Creel Survey	0.34**
Value of Fishery	Excellent	Trip Expenditures	Creel Survey	\$161,580**

\* Based on a 1999 data set.

\*\* any black bass species

### *Fishery Forecast:*

The density of smallmouth bass in the reservoir is not very high, but the quality of the fishery seems to keep getting better. In 2005, the percentage of preferred sized smallmouth in the population was excellent. This indicates a stable fishery with good recruitment, although it is not reflected in the catch of sub-stock size smallmouth. The smallmouth bass fishery should remain in good quality for the 2006 season.

### *Management Recommendations:*

No change to the current 305 mm (12-inch minimum length limit is recommended at this time. Continue to monitor the same concern about the "trout minnows" that seems to be an issue on Watauga as well as South Holston.

## Walleye\*

Population Parameter	Annual Rating	Measure	Gear	Value
Density*	Excellent	RSD-P (508 mm)	Electrofishing	75%
	Good	CPUE > Stock Size (381mm)	Electrofishing	77.1 fish/hr.
	Good	CPUE > Minimum Size Limit (457 mm)	Electrofishing	69.8 fish/hr.
Angling Pressure	Good	Fishing Effort (# of hours)	Creel Survey	16,980
Fishing Success	Poor	Angler Catch Rate (# fish/hr)	Creel Survey	0.07
Value of Fishery	Good	Trip Expenditures	Creel Survey	\$30,220

\* Special walleye electrofishing sample in headwaters during March 2005.

### *Fishery Forecast:*

The quality of the walleye fishery is excellent. The samples taken in the headwater areas have excellent percentages and numbers of quality size walleye. The fishery should remain stable for the 2006 season, due to stocking efforts.

### *Management Recommendations:*

Maintain current regulations and current stocking rates.

## Rainbow Trout

Angling Pressure	Low	Fishing Effort (# of hours)	Creel Survey	3,663
Fishing Success	Fair	Angler Catch Rate (# fish/hr)	Creel Survey	0.4
Value of Fishery	Good	Trip Expenditures	Creel Survey	\$4,010

### *Fishery Forecast:*

The quality of the fishery should remain stable

### *Management Recommendations*

Maintain current regulations and current stocking rates. Attempt to sample the fishery with vertical gill nets in the near future.

## Lake Trout

Angling Pressure	Moderate	Fishing Effort (# of hours)	Creel Survey	6,194
Fishing Success	Poor	Angler Catch Rate (# fish/hr)	Creel Survey	0.03
Value of Fishery	Good	Trip Expenditures	Creel Survey	\$12,950

### *Fishery Forecast:*

The quality of the fishery should remain stable

### *Management Recommendations*

Maintain current regulations and current stocking rates. Attempt to sample the fishery with vertical gill nets in the near future.

## Stocking and Stocking Evaluations

<b>Species</b>	<b>Number Stocked</b>	<b>Mark</b>	<b>Evaluation</b>	<b># Fish / Net Night</b>
Walleye	99,079	None	Gill Net	No Sample in 2005
Rainbow Trout	36,925	None	Angler Survey	N/A
Lake Trout	130,695	None	Angler Survey	N/A

## Habitat Enhancement and Monitoring

<b>Type of Work</b>	<b>Details</b>	<b>Date</b>
Shoreline Stabilization		None in 2005
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. The morphometric, physical, and chemical characteristics of Watauga Reservoir.

<b>Parameter</b>	<b>Measurement</b>	
	<b><i>English</i></b>	<b><i>Metric</i></b>
Surface Area	6,430 ac	2,602 ha
Drainage Area	468 sq. mi	1,213 sq. km
Full Pool Elevation	1,959 ft msl	597 m msl
Mean Annual Fluctuation	44 feet	13.4 m
Shoreline Distance	105 mi	169 km
Maximum Depth	312 ft	95 m
Thermocline Depth	30 ft	9.1m
Mean Chlorophyll (Forebay)	4.0 ppm	4.0 mg/l
Shoreline Development		21%
Trophic Status (Forebay)		Mesotrophic
Trophic Index, Carlson (1977)		44.3
Hydraulic Retention Time		400 days
Reservoir Age		56 years

Table 2. Watauga Reservoir fish stockings 1993 - 2005.

Species	Date	Rate (per acre)	Mean Length	Number
Walleye	May 1994	35.2	1.50	226,139
	May 1996	33.8	1.50	217,441
	May 1997	5.9	1.50	38,155
	May 1999	15.2	1.25 – 2.75	97,828
	May 2001	155.5	Fry	1,000,000
	May 2002	5.7	1.0 – 2.5	91,119
	May 2003	5.4	1.5	34,821
	May 2005	15.4	1 – 1.5	99,079
Blacknose	October 1995	3.2	2.50	20,269
Black Crappie	Nov. 1996	15.1	2.50	97,077
	Nov. 1997	15.4	2.50	98,731
	Dec. 1998	5.9	2.50	38,000
Rainbow Trout	1995	7.3	Adult	47,257
	1996	5.3	Adult	34,274
	1997	6.2	Adult	39,972
	1998	9.6	Adult	61,603
	1999	6.2	Adult	40,026
	2000	6.2	Adult	39,950
	2001	6.2	Adult	40,022
	2002	6.2	Adult	40,012
	2003	5.9	Adult	38,048
	2004	9.2	Adult	58,968
	2005	5.7	Adult	36925
Lake Trout	1995	3.1	Adult	20,029
	1995	1.3	Advanced Fing.	8,166
	1997	0.5	Adult	3,356
	1997	7.1	Advanced Fing.	45,514
	1998	13.8	Advanced Fing.	88,852
	2000	14.9	Advanced Fing.	95,784
	2001	16.1	Advanced Fing.	103,592
	2002	11.4	Advanced Fing.	73,356
	2003	7.7	Advanced Fing.	49,811
	2004	16.1	Advanced Fing.	103,495
2005	20.3	Advanced Fing.	130,695	

Table 3. Number of species collected by gear type in Watauga Reservoir, 2004.

Species	Winter Gill Netting			Spring Electrofishing		
	No.	CPUE (# fish / net night)	Total Effort	No.	CPUE (# fish / hour)	Total Effort
Largemouth Bass	X	X	X	76	15.1	5.0
Smallmouth Bass	X	X	X	71	14.1	5.0
Spotted Bass	X	X	X	15	3	5.0
Black Crappie	X	X	X	2	0.4	5.0
Black-Nose Crappie	X	X	X	0	0	5.0
White Crappie	X	X	X	0	0	5.0
Walleye	No Sample in 2005			35	6.9	5.0
White Bass				0	0	5.0

X = non targeted species

Table 4. Catch; mean CPUE and relative stock density by incremental RSD category for target species by gear in Watauga Reservoir, 1999 – 2004

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	%	#	CPUE	%	#	CPUE	%	#	CPUE	%	#	CPUE	%	#	CPUE	%	%	#	CPUE
				Largemouth Bass	1998	EL	32	1	0.1	<b>1</b>	9	1.1	<b>8</b>	32	4	<b>29</b>	62	7.8	<b>56</b>	6	0.7	<b>5</b>	1	0.1
	1999	EL	16	9	2.3	<b>21</b>	13	3.3	<b>39</b>				19	4.8	<b>56</b>	2	0.5	<b>6</b>				<b>62</b>	43	10.8
	2000	EL	22	4	0.7	<b>6.9</b>	16	9.5	<b>30</b>	16	2.8	<b>30</b>	19	3.4	<b>35</b>	3	0.5	<b>6</b>				<b>71</b>	58	10.2
	2001	EL	14	0	0	<b>0</b>	17	4.8	<b>28</b>	13	3.6	<b>22</b>	27	7.6	<b>45</b>	3	0.8	<b>5</b>				<b>72</b>	60	16.8
	2002	EL	14	6	1.7	<b>10</b>	12	3.3	<b>21</b>	12	3.3	<b>21</b>	32	8.9	<b>56</b>	1	0.2	<b>2</b>				<b>79</b>	63	12.4
	2003	EL	24	3	0.5	<b>5</b>	11	1.7	<b>20</b>	9	1.5	<b>16</b>	32	5.3	<b>58</b>	3	0.5	<b>5</b>				<b>79</b>	58	9.4
	2004	EL	20	1	0.2	<b>1</b>	7	1.4	<b>9</b>	20	3.8	<b>27</b>	45	8.6	<b>60</b>	3	0.6	<b>4</b>	0	0	<b>0</b>	<b>91</b>	76	14.58
	2005	EL	20	3	0.6	<b>4</b>	13	2.6	<b>18</b>	13	2.6	<b>18</b>	41	8.2	<b>56</b>	6	1.2	<b>8</b>	0	0	<b>0</b>	<b>82</b>	76	15.1
Smallmouth Bass	1998	EL	32	6	0.7	<b>2.7</b>	51	6.4	<b>24</b>	77	9.6	<b>35</b>	66	8.3	<b>30</b>	22	2.7	<b>10</b>				<b>75</b>	224	27.8
	1999	EL	16	30	7.5	<b>19</b>	56	14	<b>43</b>	36	9	<b>28</b>	28	7	<b>21</b>	11	2.8	<b>8</b>				<b>57</b>	161	40.3
	2000	EL	22	10	1.8	<b>7</b>	33	5.8	<b>26</b>	47	8.3	<b>37</b>	35	6.2	<b>28</b>	11	1.9	<b>9</b>	1	0.2	<b>1</b>	<b>74</b>	137	24.2
	2001	EL	14	21	5.8	<b>16</b>	23	6.4	<b>21</b>	31	8.6	<b>28</b>	43	12	<b>38</b>	15	4.2	<b>13</b>				<b>79</b>	133	36.8
	2002	EL	14	18	5	<b>18</b>	20	5.5	<b>24</b>	15	4.1	<b>18</b>	32	8.7	<b>39</b>	15	4.1	<b>18</b>				<b>75</b>	100	27.5
	2003	EL	24	8	1.3	<b>8</b>	20	3.2	<b>23</b>	23	3.8	<b>26</b>	26	4.3	<b>30</b>	16	2.6	<b>18</b>				<b>74</b>	95	15.5
	2004	EL	20	2	0.4	<b>2</b>	11	2.1	<b>10</b>	21	4.1	<b>19</b>	43	8.2	<b>39</b>	33	6.3	<b>30</b>	0	0	<b>0</b>	<b>88</b>	112	21.5
	2005	EL	20	2	0.4	<b>3</b>	8	1.6	<b>12</b>	12	2.4	<b>17</b>	26	5.2	<b>38</b>	16	3.2	<b>23</b>	7	1.4	<b>10</b>	<b>88</b>	71	14.1
Walleye	1998	GN	5	1	0.2	<b>1</b>	9	1.8	<b>9</b>	35	7	<b>36</b>	49	9.8	<b>50</b>	5	1	<b>5</b>				<b>91</b>	99	19.8
	1999	GN	5				17	3.4	<b>11</b>	92	18	<b>58</b>	47	9.4	<b>29</b>	4	0.8	<b>3</b>				<b>90</b>	160	32
	2000	GN	8	1	0.1	<b>2</b>	1	6.3	<b>2</b>	30	6.1	<b>60</b>	18	2.4	<b>36</b>	1	0.1	<b>2</b>				<b>98</b>	51	6.4
	2002	EL*	24	1	0		6	0.3	<b>3</b>	93	3.8	<b>43</b>	104	4.3	<b>48</b>	14	0.5	<b>6</b>				<b>97</b>	218	9.1
	2003	EL*	24	1	0.2	<b>2</b>	13	2.1	<b>27</b>	7	1.1	<b>14</b>	19	3.2	<b>39</b>	10	1.7	<b>20</b>	0	0	<b>0</b>	<b>73</b>	50	8.2
	2004	EL*	20	9	1.8	<b>12</b>	7	1.4	<b>10</b>	24	4.6	<b>36</b>	26	5	<b>39</b>	10	1.9	<b>15</b>	0	0	<b>0</b>	<b>90</b>	76	14.6
	2005	EL*	20	0	0	<b>0</b>	3	0.6	<b>9</b>	10	2	<b>29</b>	17	3.4	<b>49</b>	5	1	<b>14</b>	0	0	<b>0</b>	<b>91</b>	35	6.9

Table 5. Largemouth bass mean relative weights (Wr) in Watauga Reservoir, spring 2005.

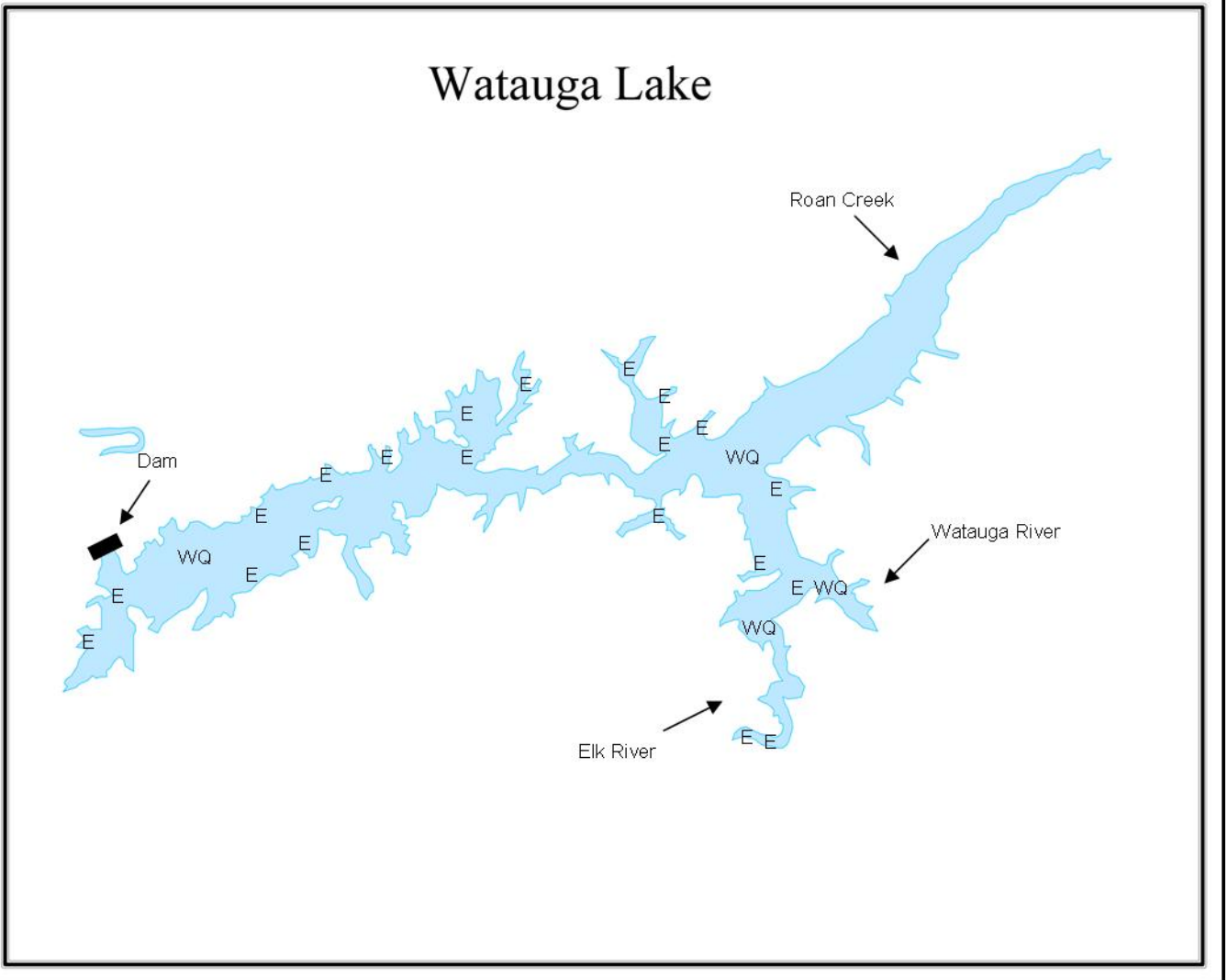
<b>Length Group</b>	<b>Mean Wr</b>	<b>Std. Error</b>	<b>N</b>
150	89.804		1
175			
200	85.410	3.968	5
225	88.325	2.316	3
250	92.158	4.789	3
275	91.084	2.938	2
300	84.605	4.833	2
325	90.204	3.394	3
350	89.580	1.784	7
375	91.604	1.718	10
400	92.460	3.531	7
425	96.043	3.594	8
450	95.595	2.275	7
475	101.874	2.004	9
500	89.283	7.602	6
525	106.690		1
<b>Total =</b>			<b>74</b>

Table 6. Smallmouth bass mean relative weights (Wr) in Watauga Reservoir, spring 2005.

<b>Length Group</b>	<b>Mean Wr</b>	<b>Std. Error</b>	<b>N</b>
150	82.315	6.097	2
175	61.394		1
200	79.857	10.854	3
225	100.829		1
250	81.781		1
275	213.481	122.943	8
300	90.012	7.352	3
325	88.103	4.336	3
350	81.490	2.582	6
375	80.125	3.987	6
400	82.609	1.521	11
425	81.007	2.397	12
450	88.057	1.039	2
475	78.064	6.575	4
500	80.558	1.303	5
525			
550	71.750		1
575	51.326		1
<b>Total =</b>			<b>70</b>

## Figures

Figure 1. Sites sampled on Watauga Reservoir in 2005.



E = Electrofishing  
WQ = Water Quality

# Largemouth Bass

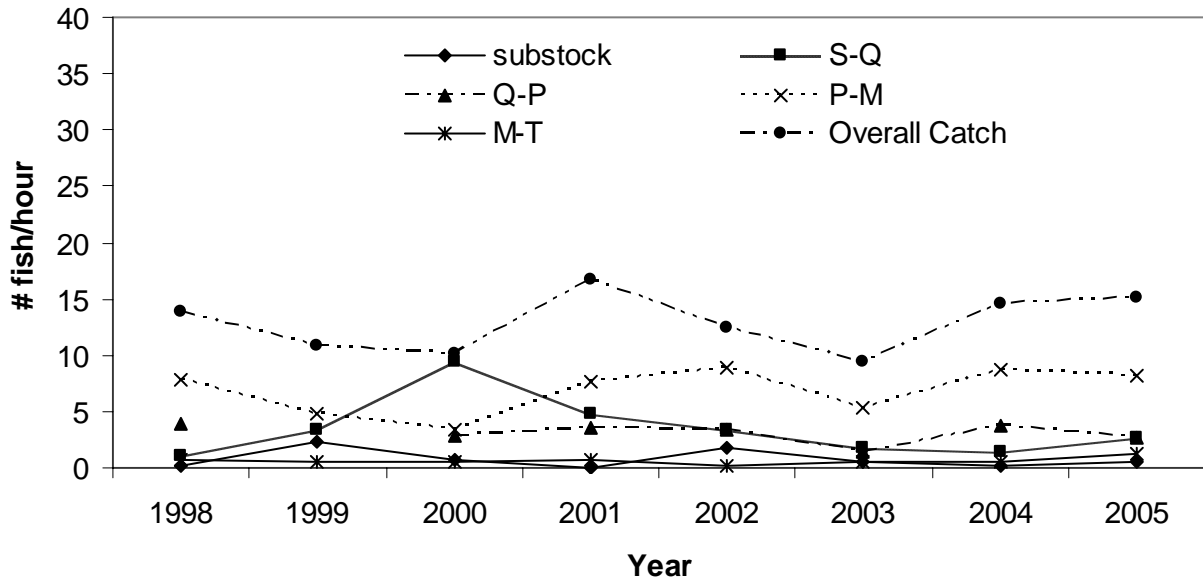


Figure 2. Largemouth bass incremental RSD values in Watauga Reservoir, 1998 - 2005.

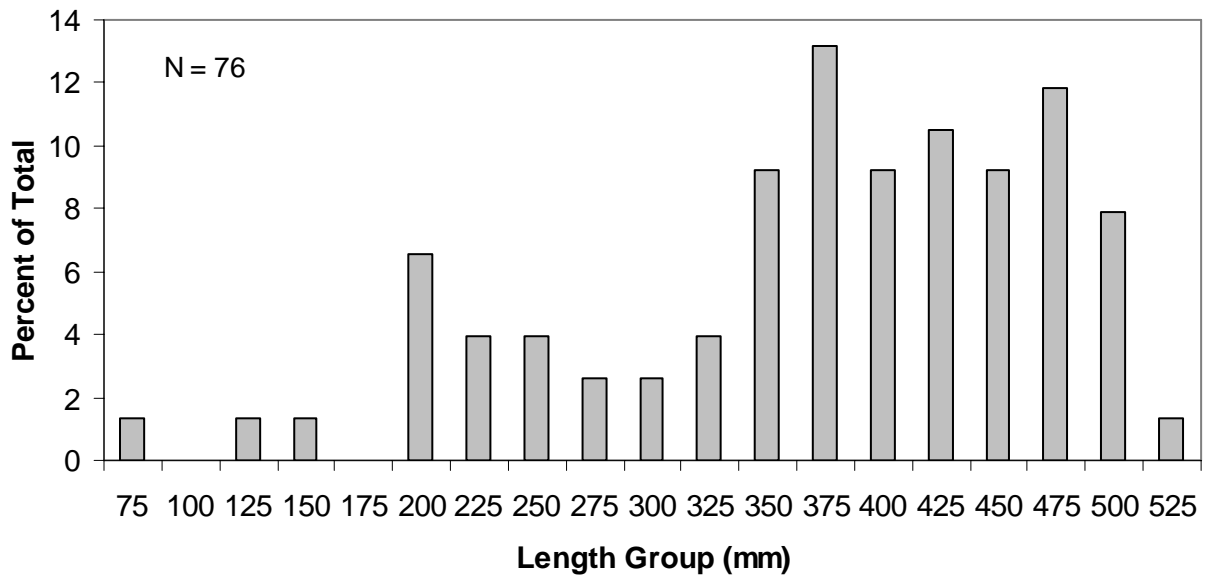


Figure 3. Largemouth bass length frequency by percent in Watauga Reservoir, spring 2005.



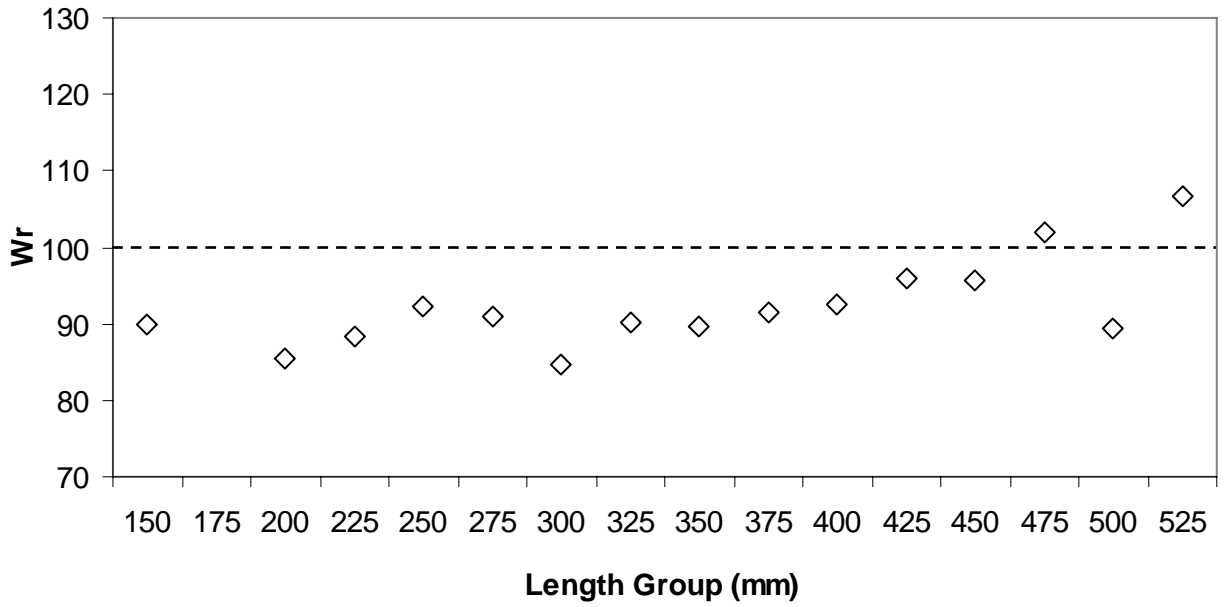


Figure 4. Largemouth bass mean relative weights (Wr) in Watauga Reservoir, spring 2005.

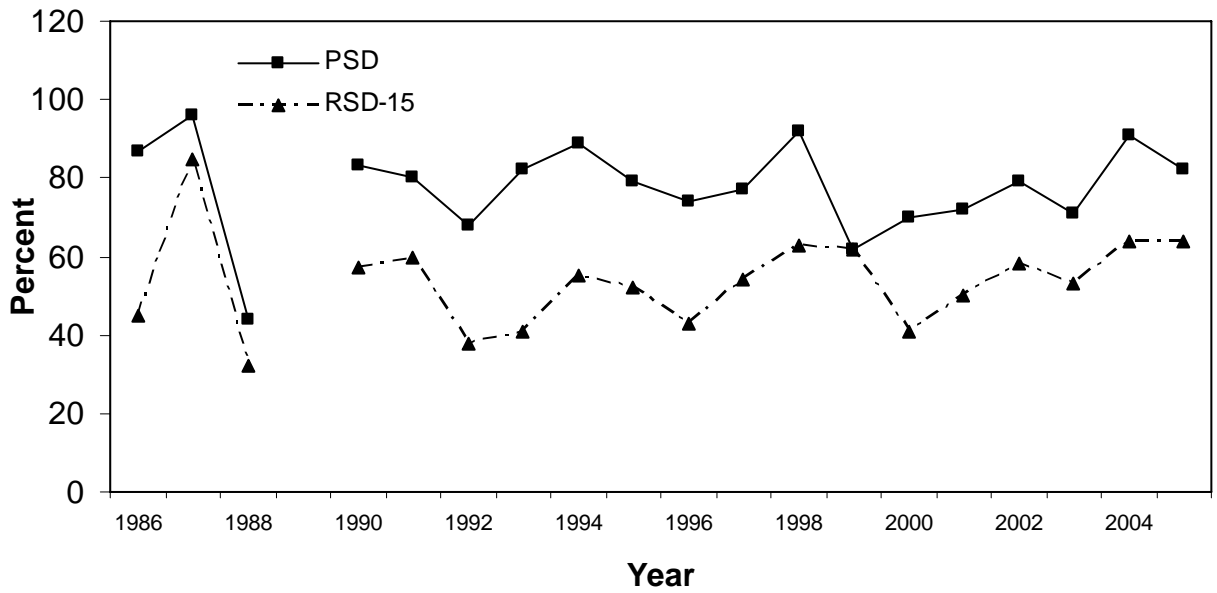


Figure 5. Largemouth bass traditional PSD and RSD-15 values in Watauga Reservoir 1986 – 2005.

## Smallmouth Bass

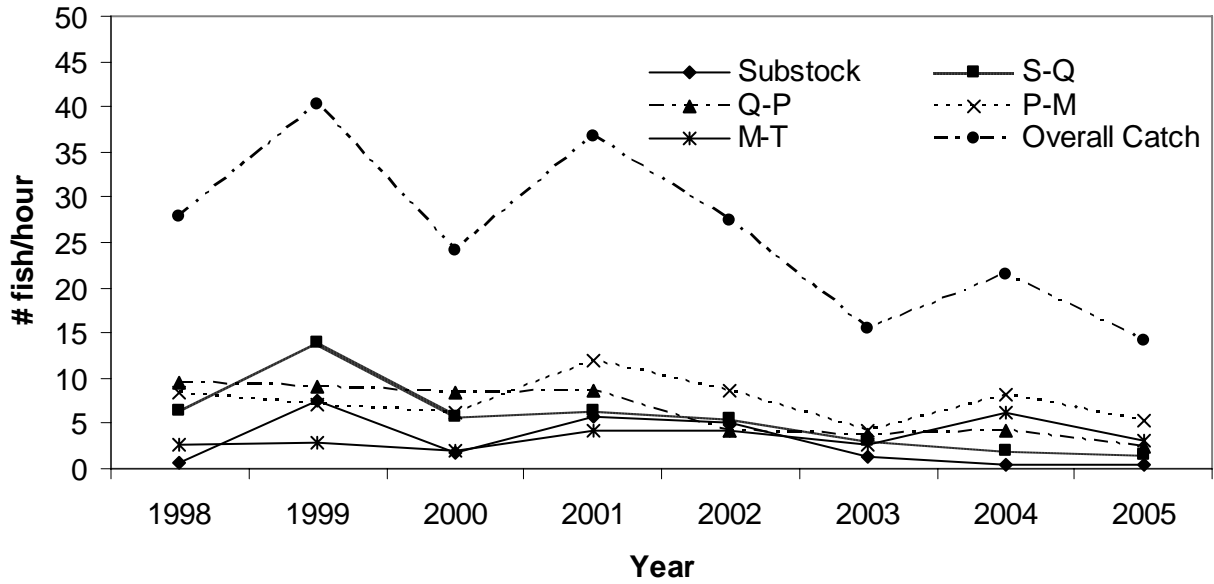


Figure 6. Smallmouth bass incremental RSD values in Watauga Reservoir, 1998 - 2005.

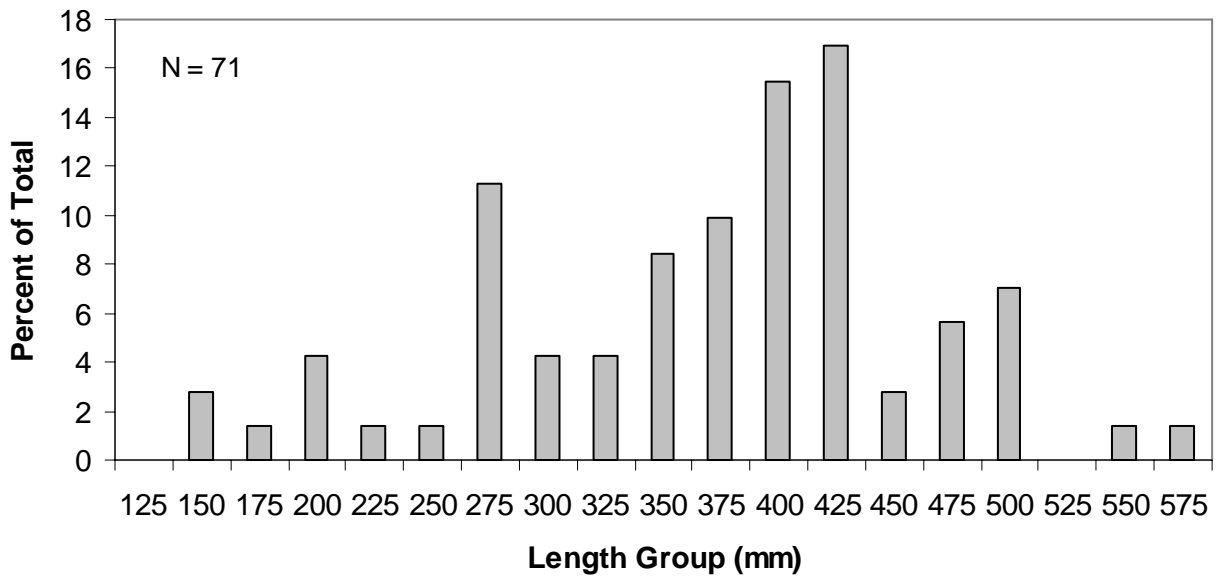


Figure 7. Smallmouth bass length frequency by percent in Watauga Reservoir, spring 2005.

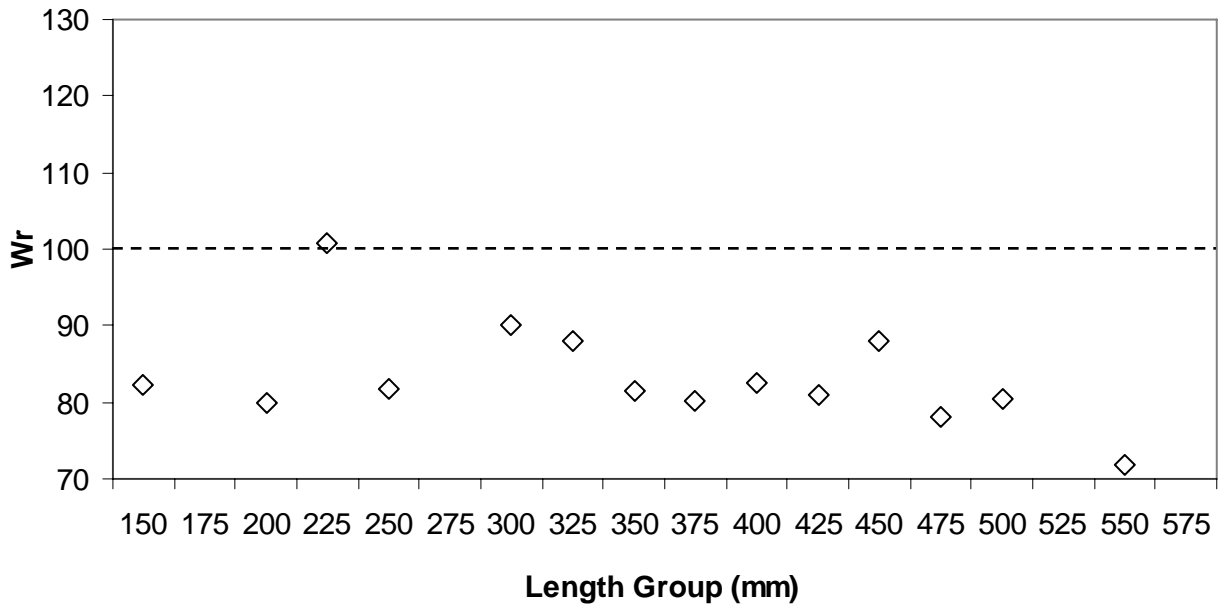


Figure 8. Smallmouth bass mean relative weights (Wr) in Watauga Reservoir, spring 2005.

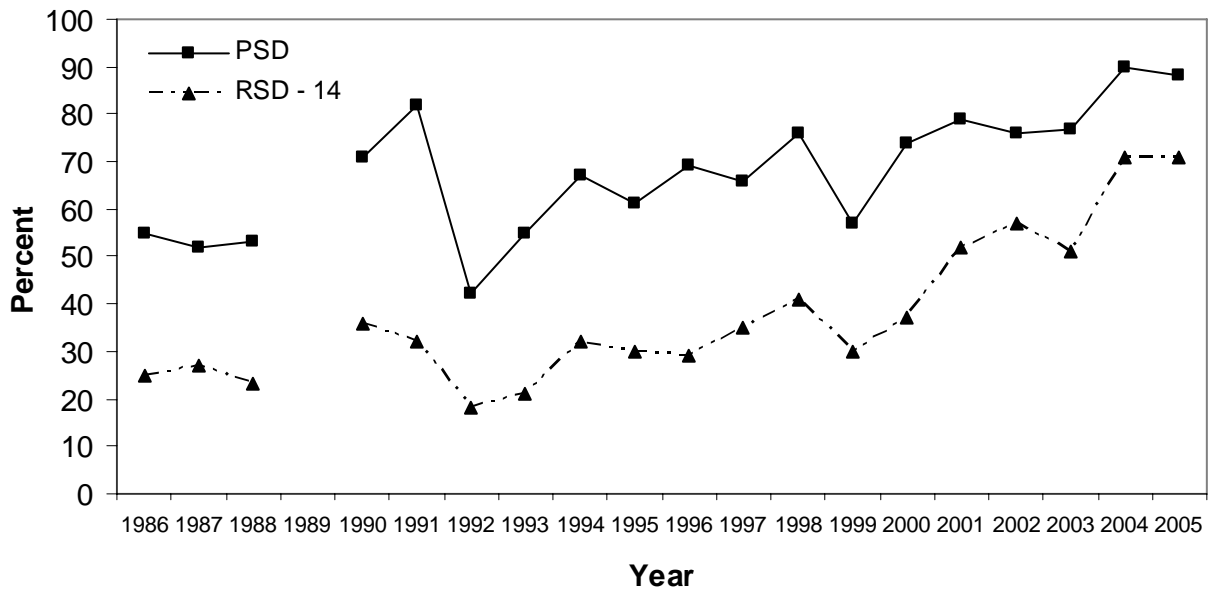


Figure 9. Smallmouth bass traditional PSD and RSD - 14 values in Watauga Reservoir 1987 – 2005.

Appendix A  
Water Quality

Table A1. Watauga Reservoir, water quality data at **WRM 39**, July 18, 2005.

<b>Depth (m)</b>	<b>Temp ©</b>	<b>Cond</b>	<b>DO</b>	<b>Site</b>	<b>Secchi (m)</b>	<b>Time</b>
0	26.0	125	<b>9.4</b>	W39	2.8	1110
1	25.9	125	<b>9.5</b>			
2	25.8	125	<b>9.5</b>			
3	25.8	125	<b>9.4</b>			
4	25.7	124	<b>9.4</b>			
5	25.7	124	<b>9.4</b>			
6	23.0	125	<b>9.8</b>			
7	21.6	122	<b>9.2</b>			
8	20.5	122	<b>9.3</b>			
9	18.6	122	<b>8.6</b>			
10	17.3	121	<b>8.3</b>			
11	16.3	120	<b>7.6</b>			
12	15.4	119	<b>7.5</b>			
13	14.4	119	<b>7.7</b>			
14	13.6	118	<b>8.0</b>			
15	12.8	117	<b>8.3</b>			
16	12.1	116	<b>8.7</b>			
17	11.6	116	<b>8.9</b>			
18	11.2	116	<b>9.2</b>			
19	10.9	115	<b>9.3</b>			
20	10.5	115	<b>9.4</b>			
21	10.2	115	<b>9.5</b>			
22	9.9	115	<b>9.5</b>			
23	9.6	115	<b>9.7</b>			
24	9.4	115	<b>9.8</b>			
25	9.2	115	<b>9.8</b>			
26	8.9	115	<b>9.9</b>			
27	8.8	115	<b>10.0</b>			
28	8.7	115	<b>10.1</b>			
29	8.6	115	<b>10.1</b>			
30	8.5	116	<b>10.1</b>			

Table A2. Watauga Reservoir, water quality data at **WRM 45**, July 18, 2005.

Depth (m)	Temp ©	Cond	DO	Site	Secchi (m)	Time
0	26.7	124	10.0	W45	2.5	1157
1	26.6	125	10.0			
2	26.4	125	10.0			
3	26.3	125	10.0			
4	25.8	127	10.4			
5	25.6	127	10.5			
6	23.8	118	9.0			
7	21.8	114	5.8			
8	20.6	126	6.0			
9	19.0	121	6.0			
10	17.3	120	5.8			
11	16.1	120	5.8			
12	14.6	120	6.4			
13	13.5	119	6.9			
14	12.4	115	7.6			
15	11.8	115	8.0			
16	11.3	114	8.1			
17	11.0	114	8.3			
18	10.6	114	8.4			
19	10.4	114	8.5			
20	10.1	115	8.6			
21	9.9	115	8.6			
22	9.7	116	8.5			
23	9.4	116	8.4			
24	9.2	117	8.3			
25	9.0	117	8.3			
26	8.8	118	8.3			
27	8.7	118	8.3			
28	8.6	118	8.2			
29	8.5	119	8.1			
30	8.5	119	8.0			

Table A3. Watauga Reservoir, water quality data at **WRM 49**, July 18, 2005.

Depth (m)	Temp ©	Cond	DO	Site	Secchi (m)	Time
0	27.6	124	9.6	W49	2.5	1315
1	27.1	124	9.7			
2	26.7	124	9.9			
3	26.5	124	9.9			
4	26.3	123	9.9			
5	25.0	115	8.2			
6	23.4	112	7.2			
7	22.5	110	6.7			
8	20.3	108	5.5			
9	18.6	111	3.7			
10	17.1	119	3.7			
11	16.1	118	3.9			
12	14.7	119	4.3			
13	13.5	118	4.7			
14	12.5	114	5.0			
15	12.0	113	5.4			
16	11.7	112	5.7			
17	11.3	113	5.8			
18	10.9	114	5.6			
19	10.7	116	5.5			
20	10.5	119	5.2			
21	10.3	125	3.4			
22	10.1	132	3.2			
23	9.9	133	2.7			
24	9.6	133	2.8			
25	9.5	133	2.7			
26	9.4	134	2.6			
27	Bottom					
28						
29						
30						

Table A4. Watauga Reservoir, water quality data at **ERM 2**, July 18, 2005.

<b>Depth (m)</b>	<b>Temp ©</b>	<b>Cond</b>	<b>DO</b>	<b>Site</b>	<b>Secchi (m)</b>	<b>Time</b>
0	27.3	121	<b>9.8</b>	E2	2.0	1140
1	27.0	122	<b>9.9</b>			
2	26.6	123	<b>10.0</b>			
3	26.4	123	<b>10.1</b>			
4	26.0	124	<b>10.3</b>			
5	24.8	124	<b>8.4</b>			
6	23.5	122	<b>6.7</b>			
7	22.3	121	<b>6.5</b>			
8	21.0	121	<b>4.5</b>			
9	19.2	121	<b>2.9</b>			
10	16.9	122	<b>3.0</b>			
11	15.4	120	<b>3.3</b>			
12	14.8	119	<b>3.8</b>			
13	13.7	118	<b>4.3</b>			
14	12.8	115	<b>5.6</b>			
15	12.1	115	<b>5.5</b>			
16	11.6	115	<b>5.3</b>			
17	11.2	116	<b>5.1</b>			
18	10.9	116	<b>4.8</b>			
19	10.6	117	<b>4.6</b>			
20	10.3	118	<b>4.5</b>			
21	9.9	118	<b>4.5</b>			
22	9.7	118	<b>4.6</b>			
23	9.6	120	<b>4.6</b>			
24	Bottom					
25						
26						
27						
28						
29						
30						



Table A5. Watauga Reservoir, water quality data at **WRM 39**, August 4, 2005.

<b>Depth (m)</b>	<b>Temp ©</b>	<b>Cond</b>	<b>DO</b>	<b>Site</b>	<b>Secchi (m)</b>	<b>Time</b>
0	26.7	135	8.4	W39	3.0	1000
1	26.7	134	8.4			
2	26.7	134	8.5			
3	26.8	134	8.5			
4	26.7	134	8.5			
5	26.7	134	8.5			
6	26.7	135	8.5			
7	26.7	135	8.6			
8	22.3	132	9.7			
9	20.2	133	8.2			
10	18.8	132	7.0			
11	17.4	131	6.0			
12	16.3	130	5.9			
13	15.4	130	5.9			
14	14.7	129	6.0			
15	13.7	128	6.7			
16	12.8	127	7.1			
17	12.2	126	7.7			
18	11.5	126	8.0			
19	11.2	126	8.2			
20	10.9	124	8.3			
21	10.6	124	8.4			
22	10.2	124	8.5			
23	10.0	124	8.5			
24	9.7	124	8.6			
25	9.5	124	8.7			
26	9.1	124	8.8			
27	8.9	124	8.8			
28	8.8	124	8.9			
29	8.8	125	8.9			
30	8.7	125	8.7			

Table A6. Watauga Reservoir, water quality data at **WRM 45**, August 4, 2005.

Depth (m)	Temp ©	Cond	DO	Site	Secchi (m)	Time
0	27.3	133	9.0	W45	3.0	1100
1	27.3	136	9.2			
2	27.2	136	9.2			
3	27.1	137	9.2			
4	27.0	137	9.1			
5	26.0	134	9.6			
6	24.9	133	9.8			
7	22.8	130	5.9			
8	21.8	132	4.4			
9	20.3	130	3.0			
10	18.8	131	3.0			
11	17.6	133	3.4			
12	16.1	132	4.1			
13	14.9	131	4.8			
14	13.6	129	5.6			
15	13.0	129	6.2			
16	12.2	128	6.6			
17	11.8	127	6.9			
18	11.3	127	7.1			
19	11.0	127	7.3			
20	10.6	124	7.4			
21	10.5	125	7.5			
22	10.2	125	7.5			
23	9.9	125	7.5			
24	9.7	125	7.4			
25	9.6	126	7.4			
26	9.3	126	7.4			
27	9.1	127	7.4			
28	9.0	127	7.3			
29	8.8	128	7.3			
30	8.7	129	7.0			

Table A7. Watauga Reservoir, water quality data at **WRM 49**, August 4, 2005.

Depth (m)	Temp ©	Cond	DO	Site	Secchi (m)	Time
0	28.3	132	9.2	W49	1.8	1145
1	27.5	134	9.7			
2	27.4	135	9.8			
3	27.3	135	9.8			
4	27.2	135	9.7			
5	26.0	130	6.7			
6	24.6	125	5.2			
7	23.2	116	5.1			
8	22.2	112	5.0			
9	20.3	111	4.1			
10	19.0	118	3.1			
11	17.5	130	2.6			
12	16.2	132	2.8			
13	15.2	132	3.1			
14	14.6	132	3.3			
15	13.7	132	3.3			
16	13.2	130	3.2			
17	12.4	130	3.1			
18	11.9	130	3.0			
19	11.5	129	2.9			
20	11.2	130	3.0			
21	10.9	135	1.8			
22	10.7	146	0.9			
23	10.5	150	0.5			
24	10.1	151	0.4			
25	9.8	151	0.5			
26	9.6	148	0.6			
27	Bottom					
28						
29						
30						

Table A8. Watauga Reservoir, water quality data at **ERM 2**, August 4, 2005.

Depth (m)	Temp ©	Cond	DO	Site	Secchi (m)	Time
0	27.7	137	9.3	E2	2.2	1240
1	27.3	138	9.4			
2	27.2	138	9.5			
3	27.1	138	9.3			
4	27.0	137	9.2			
5	25.4	133	8.0			
6	24.7	131	6.7			
7	23.6	135	4.1			
8	22.2	131	2.4			
9	20.5	128	1.9			
10	18.5	131	1.8			
11	17.3	132	2.0			
12	16.3	132	2.3			
13	15.5	131	2.6			
14	14.2	131	2.8			
15	13.3	130	3.2			
16	12.5	129	3.4			
17	11.9	130	3.4			
18	11.3	128	3.5			
19	11.0	130	3.5			
20	10.7	130	3.2			
21	10.5	129	3.2			
22	10.3	131	1.7			
23	Bottom					
24						
25						
26						
27						
28						
29						
30						

No water quality taken in September 2005.

Figure A1. Watauga Reservoir water quality data at WRM 39, July 2005.

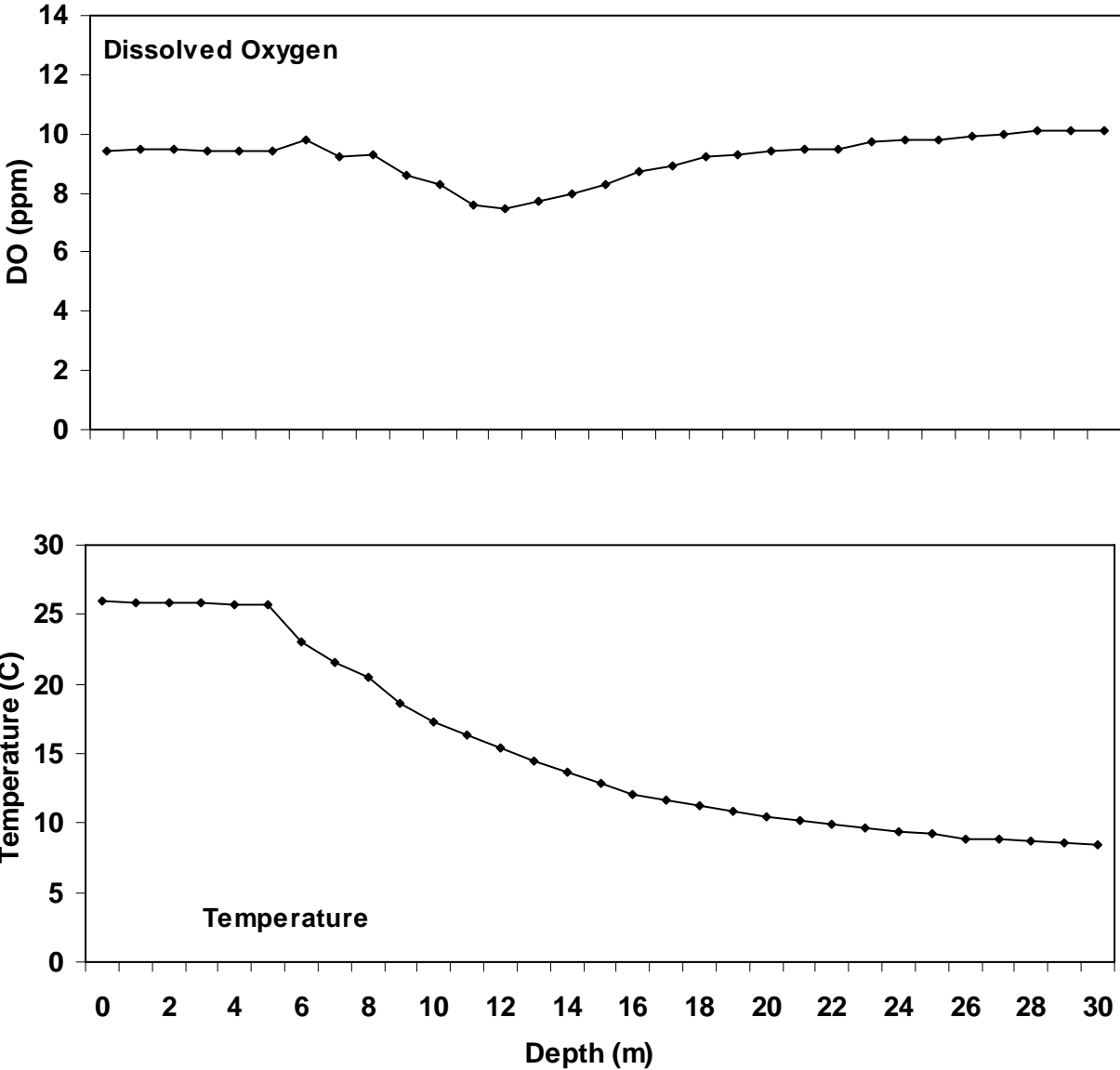


Figure A2. Watauga Reservoir water quality data at WRM 45, July 2005.

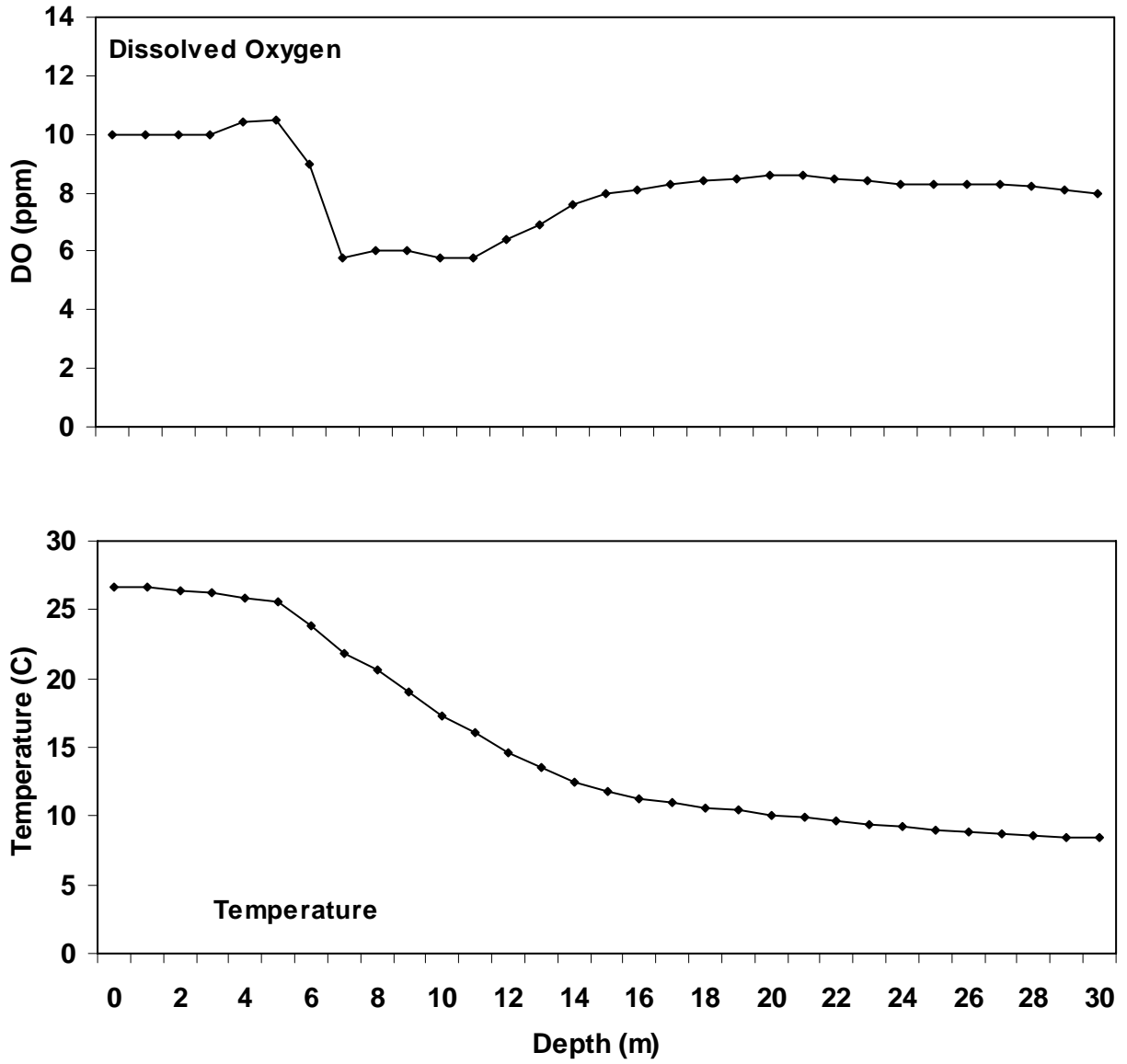


Figure A3. Watuaga Reservoir water quality data at WRM 49, July 2005.

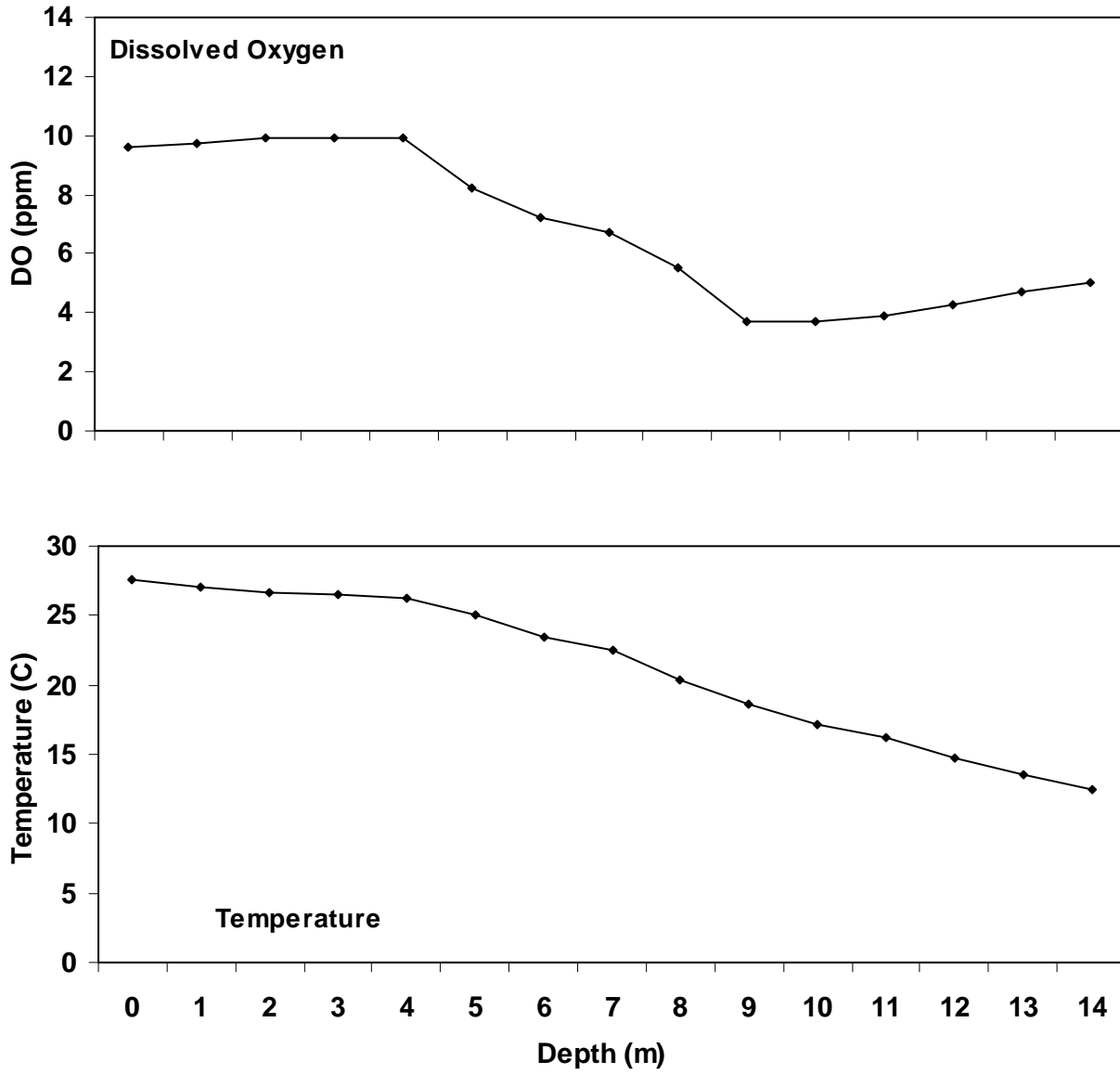


Figure A4. Watauga Reservoir water quality data at ERM 2, July 2005.

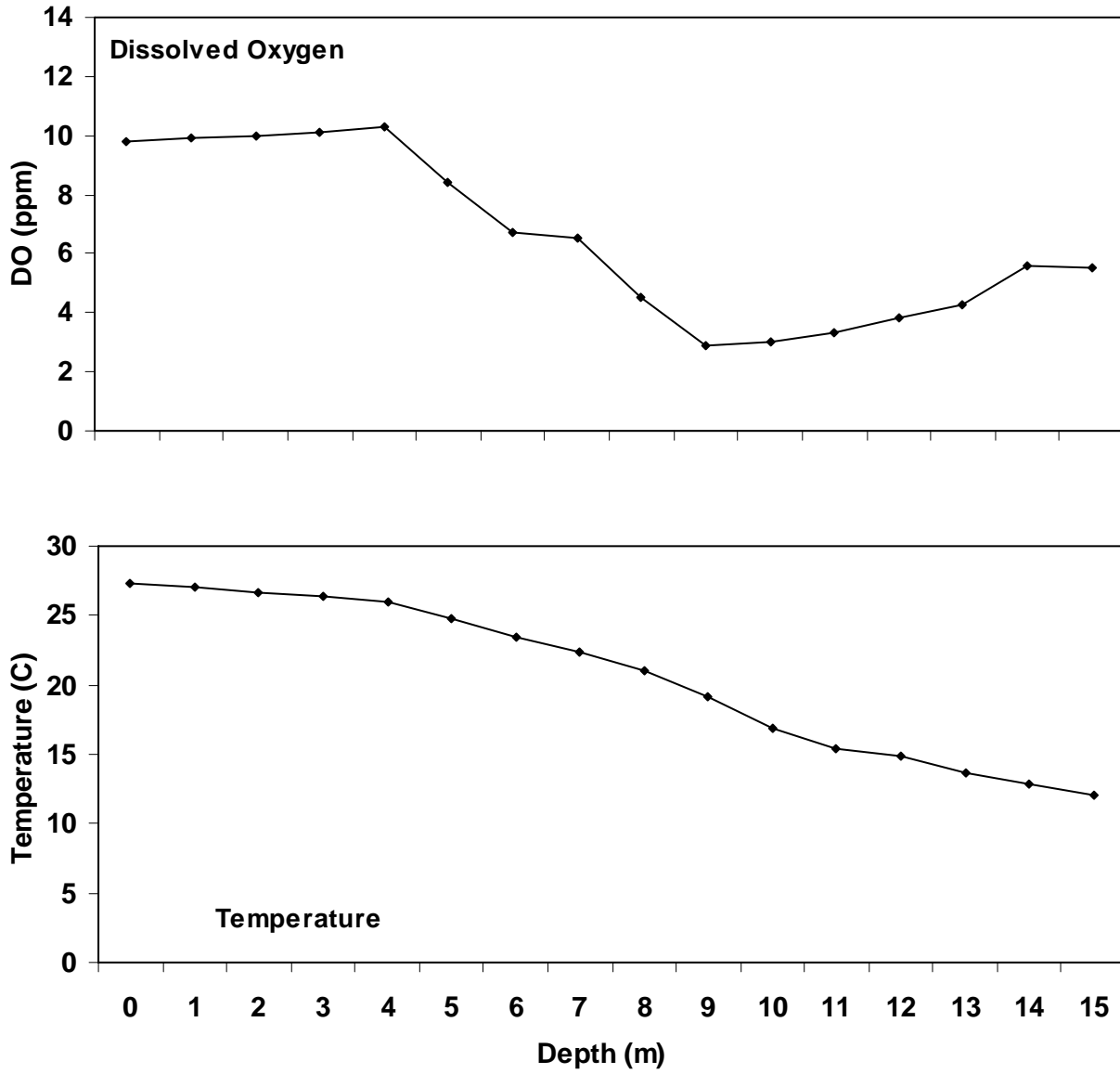




Figure A5. Watauga Reservoir water quality data at WRM 39, August 2005.

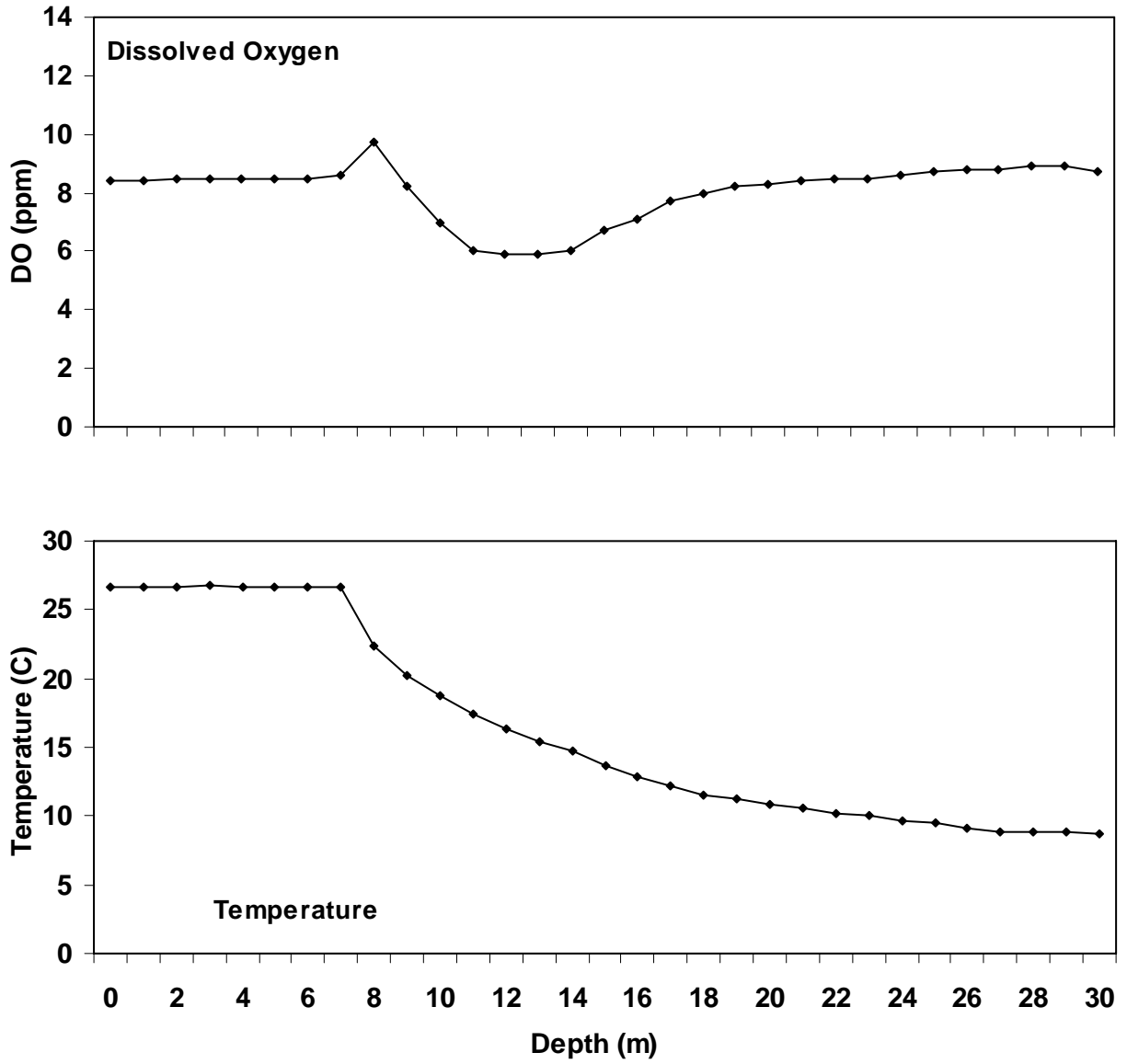


Figure A6. Watauga Reservoir water quality data at WRM 45, August 20045

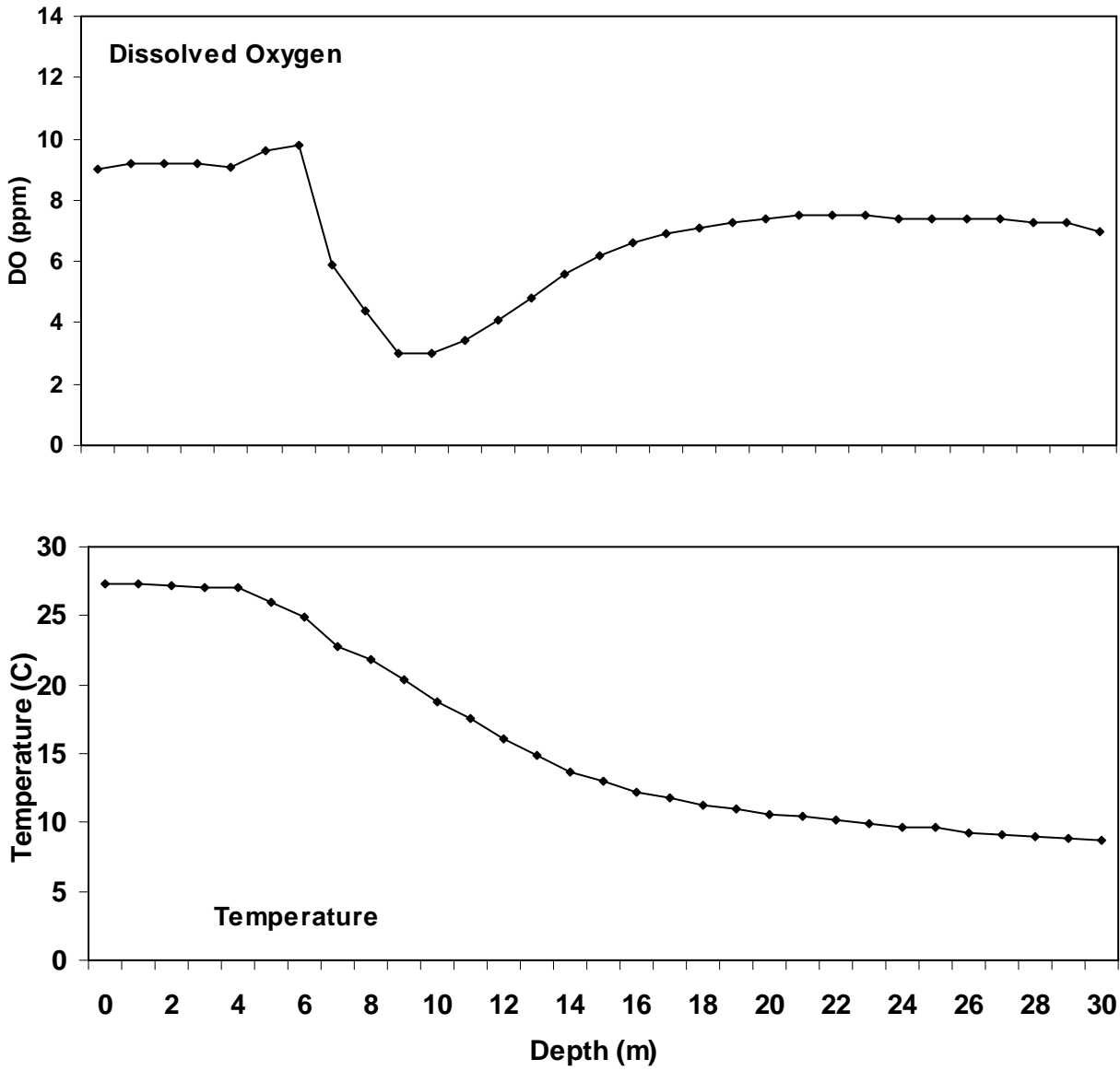


Figure A7. Watauga Reservoir water quality data at WRM 49, August 2005.

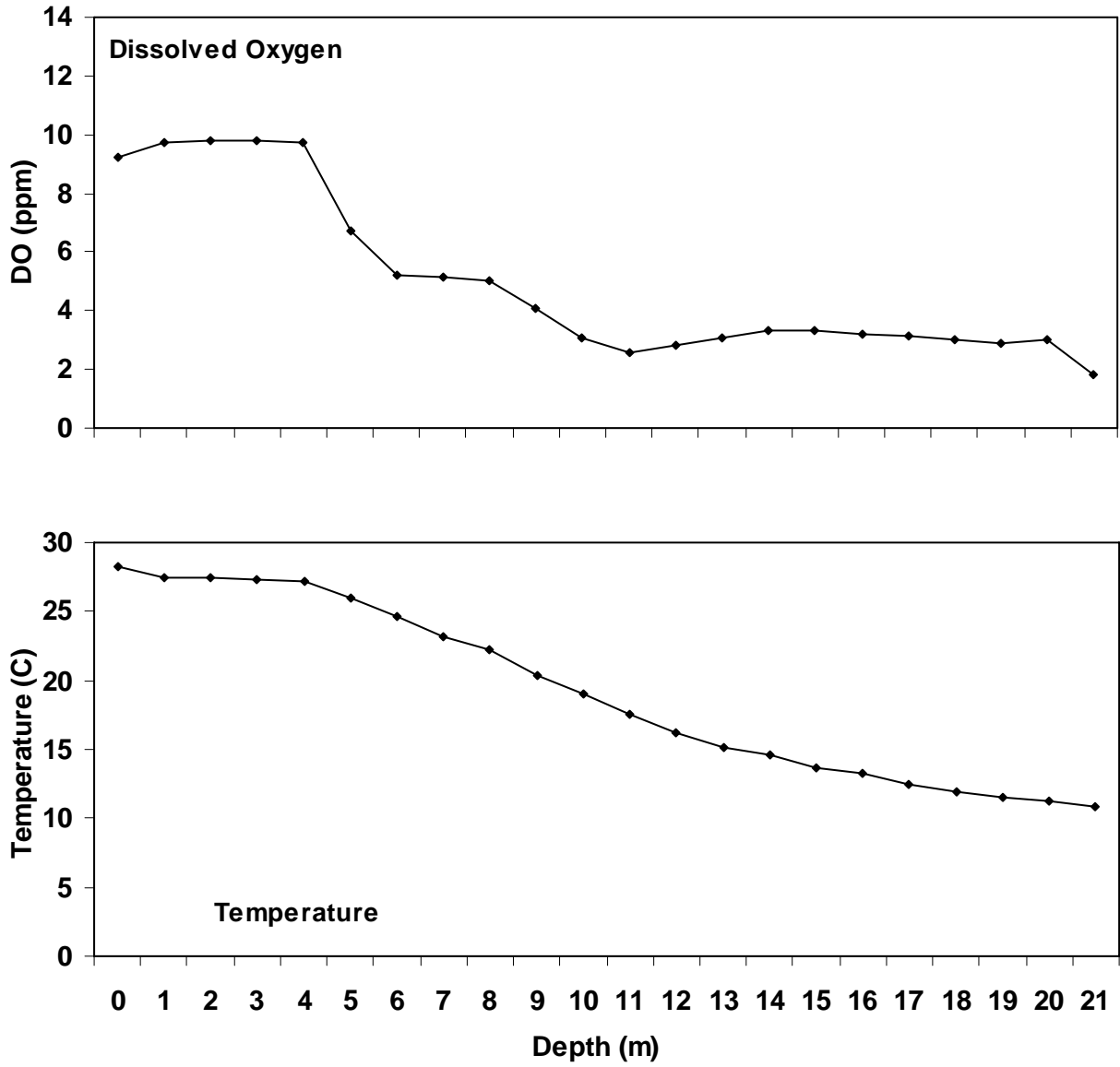
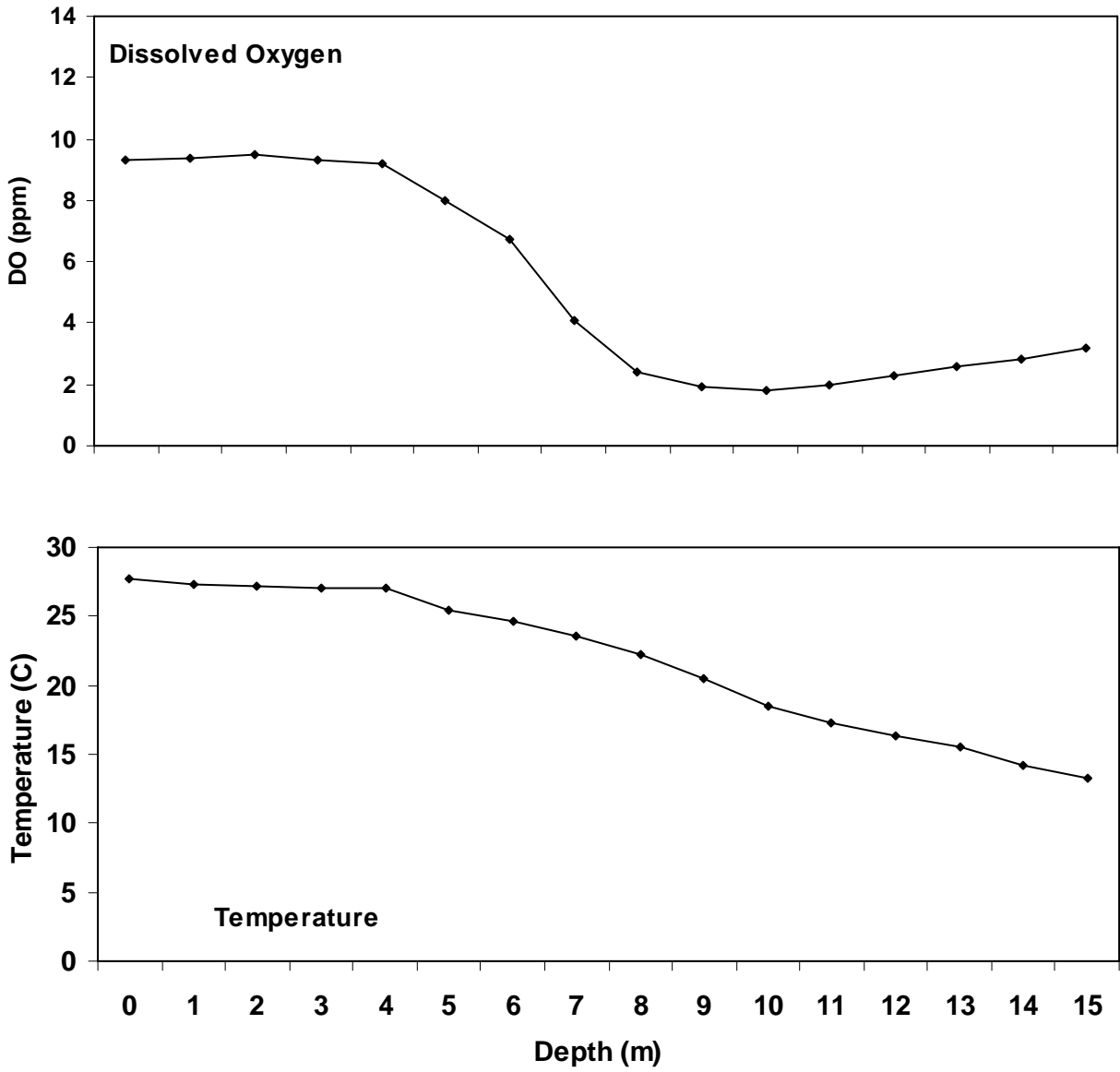


Figure A8. Watauga Reservoir water quality data at ERM 2, August 2005.



Appendix B  
Reservoir Elevations

Table B1. Watauga Reservoir elevation data for 2005. Data is courtesy of TVA.

Elevation	Month	Day	Elevation	Month	Day	Elevation	Month	Day
1952.23	January	1	1952.55	February	24	1957.36	April	19
1952.26	January	2	1952.60	February	25	1957.46	April	20
1951.89	January	3	1952.81	February	26	1957.61	April	21
1951.70	January	4	1953.03	February	27	1957.86	April	22
1951.47	January	5	1952.89	February	28	1957.98	April	23
1951.17	January	6	1952.47	March	1	1958.12	April	24
1950.90	January	7	1952.16	March	2	1958.17	April	25
1951.02	January	8	1952.10	March	3	1958.25	April	26
1951.11	January	9	1952.09	March	4	1958.25	April	27
1950.87	January	10	1952.29	March	5	1958.14	April	28
1950.90	January	11	1952.54	March	6	1958.63	April	29
1950.90	January	12	1952.56	March	7	1959.07	April	30
1951.06	January	13	1952.43	March	8	1959.24	May	1
1952.20	January	14	1952.23	March	9	1959.30	May	2
1952.70	January	15	1952.25	March	10	1959.27	May	3
1952.98	January	16	1952.35	March	11	1959.12	May	4
1952.85	January	17	1952.63	March	12	1959.01	May	5
1952.45	January	18	1952.93	March	13	1958.96	May	6
1952.04	January	19	1953.14	March	14	1959.13	May	7
1951.63	January	20	1953.26	March	15	1959.10	May	8
1951.24	January	21	1952.97	March	16	1959.01	May	9
1951.20	January	22	1952.66	March	17	1958.93	May	10
1950.87	January	23	1952.61	March	18	1958.77	May	11
1950.24	January	24	1952.84	March	19	1958.72	May	12
1949.86	January	25	1953.01	March	20	1958.56	May	13
1950.01	January	26	1953.01	March	21	1958.73	May	14
1950.18	January	27	1953.07	March	22	1958.96	May	15
1950.33	January	28	1953.28	March	23	1959.10	May	16
1950.36	January	29	1953.18	March	24	1958.91	May	17
1950.46	January	30	1952.98	March	25	1958.65	May	18
1950.48	January	31	1953.26	March	26	1958.40	May	19
1950.49	February	1	1953.55	March	27	1958.37	May	20
1950.49	February	2	1954.14	March	28	1958.30	May	21
1950.54	February	3	1954.88	March	29	1958.28	May	22
1950.56	February	4	1955.47	March	30	1958.47	May	23
1950.68	February	5	1955.94	March	31	1958.49	May	24
1950.85	February	6	1956.31	April	1	1958.58	May	25
1950.73	February	7	1956.99	April	2	1958.76	May	26
1950.93	February	8	1957.34	April	3	1958.88	May	27
1951.16	February	9	1957.57	April	4	1958.85	May	28
1951.23	February	10	1957.74	April	5	1958.91	May	29
1951.27	February	11	1957.53	April	6	1958.96	May	30
1951.35	February	12	1957.61	April	7	1959.00	May	31
1951.62	February	13	1957.71	April	8	1958.97	June	1
1951.74	February	14	1957.88	April	9	1959.03	June	2
1951.92	February	15	1958.10	April	10	1959.13	June	3
1952.12	February	16	1957.75	April	11	1959.10	June	4
1952.09	February	17	1957.32	April	12	1959.13	June	5
1952.02	February	18	1956.85	April	13	1959.21	June	6
1952.20	February	19	1956.66	April	14	1959.18	June	7
1952.43	February	20	1956.81	April	15	1959.28	June	8
1952.39	February	21	1956.98	April	16	1959.26	June	9
1952.43	February	22	1957.14	April	17	1959.17	June	10
1952.49	February	23	1957.26	April	18	1959.10	June	11

Table B1. Continued.

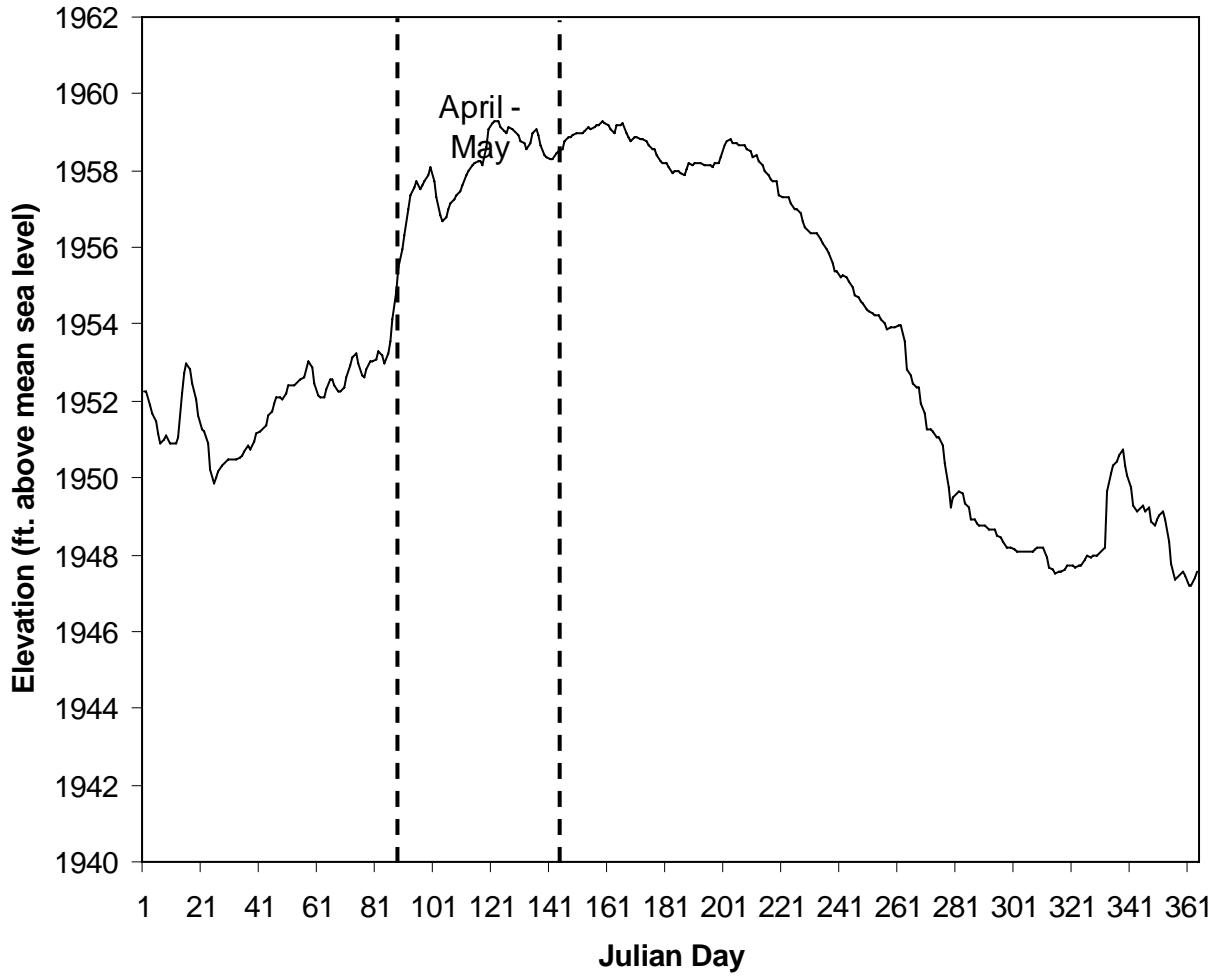
Elevation	Month	Day	Elevation	Month	Day	Elevation	Month	Day
1958.96	June	12	1957.78	August	5	1951.28	September	28
1959.17	June	13	1957.70	August	6	1951.28	September	29
1959.20	June	14	1957.70	August	7	1951.23	September	30
1959.24	June	15	1957.38	August	8	1951.07	October	1
1958.96	June	16	1957.29	August	9	1951.04	October	2
1958.88	June	17	1957.29	August	10	1950.82	October	3
1958.77	June	18	1957.29	August	11	1950.36	October	4
1958.85	June	19	1957.13	August	12	1949.77	October	5
1958.85	June	20	1957.01	August	13	1949.23	October	6
1958.80	June	21	1957.01	August	14	1949.50	October	7
1958.80	June	22	1956.89	August	15	1949.59	October	8
1958.76	June	23	1956.70	August	16	1949.67	October	9
1958.65	June	24	1956.54	August	17	1949.59	October	10
1958.54	June	25	1956.42	August	18	1949.35	October	11
1958.54	June	26	1956.39	August	19	1949.22	October	12
1958.41	June	27	1956.36	August	20	1948.92	October	13
1958.27	June	28	1956.39	August	21	1948.90	October	14
1958.22	June	29	1956.23	August	22	1948.81	October	15
1958.17	June	30	1956.10	August	23	1948.75	October	16
1958.07	July	1	1955.97	August	24	1948.74	October	17
1957.92	July	2	1955.84	August	25	1948.75	October	18
1958.00	July	3	1955.59	August	26	1948.66	October	19
1957.96	July	4	1955.37	August	27	1948.64	October	20
1957.94	July	5	1955.38	August	28	1948.64	October	21
1957.89	July	6	1955.20	August	29	1948.49	October	22
1958.04	July	7	1955.25	August	30	1948.47	October	23
1958.17	July	8	1955.23	August	31	1948.33	October	24
1958.14	July	9	1955.10	September	1	1948.18	October	25
1958.22	July	10	1954.98	September	2	1948.19	October	26
1958.17	July	11	1954.77	September	3	1948.18	October	27
1958.17	July	12	1954.68	September	4	1948.12	October	28
1958.14	July	13	1954.58	September	5	1948.06	October	29
1958.13	July	14	1954.53	September	6	1948.06	October	30
1958.14	July	15	1954.41	September	7	1948.10	October	31
1958.10	July	16	1954.32	September	8	1948.09	November	1
1958.19	July	17	1954.31	September	9	1948.09	November	2
1958.19	July	18	1954.21	September	10	1948.10	November	3
1958.37	July	19	1954.21	September	11	1948.15	November	4
1958.67	July	20	1954.11	September	12	1948.19	November	5
1958.77	July	21	1954.00	September	13	1948.21	November	6
1958.82	July	22	1953.88	September	14	1948.21	November	7
1958.72	July	23	1953.90	September	15	1947.90	November	8
1958.73	July	24	1953.92	September	16	1947.64	November	9
1958.68	July	25	1953.94	September	17	1947.60	November	10
1958.68	July	26	1953.95	September	18	1947.52	November	11
1958.64	July	27	1953.98	September	19	1947.55	November	12
1958.55	July	28	1953.57	September	20	1947.56	November	13
1958.49	July	29	1952.85	September	21	1947.61	November	14
1958.37	July	30	1952.65	September	22	1947.70	November	15
1958.41	July	31	1952.45	September	23	1947.73	November	16
1958.25	August	1	1952.38	September	24	1947.70	November	17
1958.12	August	2	1952.37	September	25	1947.68	November	18
1957.96	August	3	1951.94	September	26	1947.72	November	19
1957.90	August	4	1951.70	September	27	1947.73	November	20

Table B1. Continued.

<b>Elevation</b>	<b>Month</b>	<b>Day</b>
1947.88	November	21
1947.97	November	22
1947.94	November	23
1947.97	November	24
1947.99	November	25
1948.03	November	26
1948.09	November	27
1948.18	November	28
1949.65	November	29
1950.11	November	30
1950.34	December	1
1950.44	December	2
1950.59	December	3
1950.72	December	4
1950.31	December	5
1950.04	December	6
1949.77	December	7
1949.30	December	8
1949.11	December	9
1949.18	December	10
1949.29	December	11
1949.14	December	12
1949.23	December	13
1948.84	December	14
1948.77	December	15
1948.92	December	16
1949.04	December	17
1949.12	December	18
1948.92	December	19
1948.36	December	20
1947.78	December	21
1947.35	December	22
1947.40	December	23
1947.49	December	24
1947.56	December	25
1947.46	December	26
1947.22	December	27
1947.22	December	28
1947.39	December	29
1947.55	December	30
1947.64	December	31



Figure B1. Watauga Reservoir daily reservoir elevations for 2005 (TVA data).



Appendix C  
Creel Surveys

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2005

LAKE=WATAUGA

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	9652	7.6	1.5	1598	0.2	6.7
02 FEBRUARY	7724	28.5	1.2	1153	0.2	5.3
03 MARCH	14024	6.8	2.2	2068	0.3	9.7
04 APRIL	15271	13.9	2.4	2310	0.4	10.6
05 MAY	15521	20.6	2.4	2256	0.4	10.7
06 JUNE	18633	13.9	2.9	2766	0.4	12.9
07 JULY	15905	7.7	2.5	2361	0.4	11.0
08 AUGUST	13843	10.5	2.2	2165	0.3	9.6
09 SEPTEMBER	9185	24.3	1.4	1502	0.2	6.4
10 OCTOBER	10607	17.6	1.6	1563	0.2	7.3
11 NOVEMBER	7689	8.3	1.2	1168	0.2	5.3
12 DECEMBER	6554	9.5	1.0	1012	0.2	4.5
-----	-----			-----		
<b>TOTAL</b>	<b>144608</b>			<b>21922</b>		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2005

LAKE=WATAUGA

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	1930	22.8	0.20	21.1	869	45.9	0.09	47.2
02 FEBRUARY	1004	51.9	0.13	41.9	541	87.6	0.07	84.2
03 MARCH	4207	23.0	0.30	22.1	701	34.5	0.05	36.6
04 APRIL	3665	22.8	0.24	17.9	305	31.9	0.02	35.6
05 MAY	2949	33.2	0.19	25.2	621	46.1	0.04	44.3
06 JUNE	3913	28.0	0.21	24.0	373	49.0	0.02	42.3
07 JULY	2227	12.3	0.14	9.8	159	56.6	0.01	42.9
08 AUGUST	3461	21.9	0.25	18.9	277	20.8	0.02	18.0
09 SEPTEMBER	1378	69.0	0.15	60.8	0	.	0.00	100.0
10 OCTOBER	1697	27.7	0.16	21.6	106	51.9	0.01	45.6
11 NOVEMBER	1999	29.9	0.26	28.3	154	24.6	0.02	24.9
12 DECEMBER	1245	32.7	0.19	30.5	131	46.2	0.02	58.0
----- <b>TOTAL</b>	<b>29675</b>				<b>4237</b>			

SUMMARY OF SPECIES CATCH STATISTICS - 2005

LAKE=WATAUGA

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	358	166.3	1.2	230	201	153.5	4.7	201	43.9	3.91	6
RAINBOW TROUT	1638	51.6	5.5	1062	1179	45.0	27.8	1142	28.0	0.53	32
LAKE TROUT	111	295.7	0.4	111	65	265.6	1.5	65	41.4	6.68	2
BLUEGILL	1736	75.2	5.8	868	167	114.6	3.9	167	90.4	0.02	5
SMALLMOUTH BASS	15203	10.6	51.0	15044	1086	21.8	25.6	1086	92.9	2.41	37
SPOTTED BASS	2128	46.1	7.1	2082	111	107.5	2.6	111	94.8	2.55	4
LARGEMOUTH BASS	7121	17.5	23.9	6918	367	32.5	8.6	300	94.8	2.55	11
BLACK CRAPPIE	403	158.5	1.4	296	279	122.6	6.6	279	30.8	0.95	10
BLACKNOSE CRAPPIE	121	280.0	0.4	97	101	210.1	2.4	101	16.5	0.95	4
WALLEYE	966	71.7	3.2	779	688	56.0	16.2	688	28.8	3.96	19
FRESHWATER DRUM	49	686.9	0.2	0	0	.	0.0	0	100.0	.	0

**SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2005**

**LAKE=WATAUGA**

<b>INTENDED SPECIES</b>	<b>ANGLER HOURS</b>	<b>RSE FOR ANGLER HOURS</b>	<b>ANGLER TRIPS</b>	<b>PERCENT EFFORT</b>	<b>NUMBER CAUGHT PER HOUR</b>	<b>RSE FOR CATCH PER HOUR</b>	<b>NUMBER HARVESTED PER HOUR</b>	<b>RSE FOR HARVEST PER HOUR</b>	<b>NUMBER OF INTERVIEWS</b>
ANY CATFISH	1810	34.0	274	1.3	0.10	85.3	0.10	85.3	7
RAINBOW TROUT	3663	22.2	567	2.5	0.40	69.5	0.39	71.2	31
ANY TROUT	6709	18.1	1010	4.6	0.02	195.9	0.02	195.9	44
LAKE TROUT	6194	18.7	942	4.3	0.03	147.2	0.02	196.2	34
ANY TEMPERATE BASS	120	127.5	18	0.1	0.00		0.00		1
STRIPED BASS	241	89.6	36	0.2	0.00		0.00		1
ANY SUNFISH	1529	41.1	230	1.1	1.52	52.9	0.28	144.0	8
ANY BLACK BASS	78384	5.7	11895	54.2	0.34	11.8	0.01	98.3	365
SMALLMOUTH BASS	9098	15.0	1383	6.3	0.17	50.5	0.09	85.7	65
ANY CRAPPIE	7553	16.6	1133	5.2	0.11	100.7	0.10	102.4	51
WALLEYE	16980	11.7	2559	11.7	0.07	62.7	0.06	73.3	80
ANY SPECIES	12320	12.9	1869	8.5	0.14	107.1	0.02	329.0	74
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<b>TOTAL</b>	<b>144601</b>		<b>21916</b>						

**SUMMARY OF RELATIVE SPECIES CATCH RATES  
WITHIN TARGET GROUPS - 2005**

**LAKE=WATAUGA**

<b>TARGET GROUP</b>	<b>SPECIES WITHIN TARGET GROUPS</b>	<b>RELATIVE CATCH RATE</b>	<b>RELATIVE HARVEST RATE</b>
ANY CATFISH	CHANNEL CATFISH	0.10	0.10
ANY TROUT	RAINBOW TROUT	0.02	0.02
ANY TEMPERATE BASS ANY SUNFISH	BLUEGILL	1.52	0.28
ANY BLACK BASS	SMALLMOUTH BASS	0.17	0.01
	SPOTTED BASS	0.02	0.00
	LARGEMOUTH BASS	0.08	0.00
ANY CRAPPIE	BLACK CRAPPIE	0.08	0.07
	BLACKNOSE CRAPPIE	0.03	0.03

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=WATAUGA

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	0.28	43
02 FEBRUARY	0		0	0.25	27
03 MARCH	19	0.43	5	0.40	33
04 APRIL	0		0	0.39	41
05 MAY	32	0.44	9	0.31	31
06 JUNE	0		0	0.32	36
07 JULY	0		0	0.32	45
08 AUGUST	0		0	0.35	37
09 SEPTEMBER	0		0	0.27	15
10 OCTOBER	25	0.50	5	0.26	34
11 NOVEMBER	0		0	0.25	37
12 DECEMBER	0		0	0.30	32



SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS  
FOR INTENDED SPECIES - 2005

LAKE=WATAUGA

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	2690	1560	4260	7
RAINBOW TROUT	4010	2730	6750	30
ANY TROUT	7470	10490	17960	44
LAKE TROUT	12950	8460	21410	34
ANY TEMPERATE BASS	270	270	540	1
STRIPED BASS	360	180	540	1
ANY SUNFISH	880	1750	2620	8
ANY BLACK BASS	161580	83350	244930	365
SMALLMOUTH BASS	10540	11200	21740	65
ANY CRAPPIE	11240	10040	21280	51
WALLEYE	30220	20670	50890	80
ANY SPECIES	11930	14210	26150	74
----- TOTAL	----- 254140	----- 164910	----- 419070	----- 760

**SUMMARY OF SOCIOLOGICAL QUESTIONS - 2005**

**LAKE=WATAUGA**

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

<b>STATE</b>	<b>NUMBER ANGLERS INTERVIEWED</b>	<b>PERCENT CONTRIBUTION</b>
NC	75	6.2
TN	1093	90.3
OTHERS	42	3.5

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

<b>COUNTY</b>	<b>NUMBER ANGLERS INTERVIEWED</b>	<b>PERCENT CONTRIBUTION</b>
CARTER	698	63.6
JOHNSON	153	13.9
SULLIVAN	82	7.5
UNICOI	82	7.5
WASHINGTON	62	5.7
OTHERS IN TN	16	1.5
OUT-OF-STATE	4	0.4

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

<b>ONE-WAY MILES TRAVELED</b>	<b>NUMBER ANGLERS INTERVIEWED</b>	<b>PERCENT CONTRIBUTION</b>
A) 0-25	891	73.6
B) 26-100	310	25.6
D) > 250	9	0.7

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

<b>REASON FOR TRIP</b>	<b>NUMBER ANGLERS INTERVIEWED</b>	<b>PERCENT CONTRIBUTION</b>
A) FISHING	756	99.6
B) VACATION	3	0.4

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

<b>NUMBER DAYS IN TRIP</b>	<b>NUMBER ANGLERS INTERVIEWED</b>	<b>PERCENT CONTRIBUTION</b>
A) 1	756	99.3
B) 2-5	4	0.5
C) 6-10	1	0.1