

Douglas Reservoir
Annual Report 2005

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Largemouth Bass

Population Parameter	Annual Rating	Measure	Gear	Value
Recruitment	Good	Sub-stock CPUE	Electrofishing	26.9 fish/hr.
<i>Growth*</i>	<i>Good</i>	<i>Mean TL at Age-3</i>	<i>Electrofishing</i>	<i>342 mm</i>
	Fair	RSD-381 mm	Electrofishing	21%
Density	Excellent	CPUE \geq Stock Size (203 mm)	Electrofishing	169.1 fish/hr.
		CPUE \geq Minimum Size Limit	Electrofishing	No limit
<i>Mortality*</i>	<i>High</i>	<i>Total Mortality (Z)</i>	<i>Electrofishing</i>	<i>71%*</i>
Angling Pressure	High	Fishing Effort (hours)	Creel Survey	188,941
Fishing Success	Good	Angler Catch Rate (#fish/hour)	Creel Survey	0.95
Value of Fishery	Excellent	Trip Expenditures	Creel Survey	\$697,960

* *Based on a 2000 data set.*

Fishery Forecast:

2005 was the highest recorded overall density for largemouth bass since the standardized protocols were established in 1998. Again, recruitment remained stable for the 2005 season which should help preserve a good fishery in Douglas Reservoir.

Management Recommendations:

Maintain current creel limit.

Smallmouth Bass

Population Parameter	Annual Rating	Measure	Gear	Value
Recruitment	Good	Sub-stock CPUE	Electrofishing	3.0 fish/hr.
Growth	N/A	Mean TL at Age-3	Electrofishing	N/A
	Fair	RSD-P (356 mm)	Electrofishing	44%
Density	Good	CPUE > Stock Size (178 mm)	Electrofishing	6.6 fish/hr.
	Poor	CPUE > Minimum Size Limit	Electrofishing	0.0 fish/hr.
Mortality	N/A	Total Mortality (Z)	Electrofishing	N/A
Angling Pressure	Poor	Fishing Effort (hours)	Creel Survey	0*
Fishing Success	Poor	Angler Catch Rate (#fish/hour)	Creel Survey	0*
Value of Fishery	Poor	Trip Expenditures	Creel Survey	0*

* smallmouth bass were caught, but none of the anglers interviewed were targeting smallmouth bass

Fishery Forecast:

The smallmouth bass population appears to be increasing. Some sub-stock size smallmouth bass were collected this year for the first time. A surplus of about 7500 fingerling smallmouth was placed in the reservoir to help boost the 2005 year class. The fishery should continue to expand

Management Recommendations:

Continue to monitor the effects of the 20-inch, 1 fish creel limit imposed in 2001. Collect a sample large enough to analyze age and growth.

Black Crappie

Population Parameter	Annual Rating	Measure	Gear	Value
Recruitment	Poor	Sub-stock CPUE	Trap Net	0.6 fish/net night
<i>Growth*</i>	<i>Good</i>	<i>Mean TL at Age-3</i>	<i>Trap Net</i>	<i>327.5 mm</i>
	Good	RSD-254 mm	Trap Net	42%
Density	Good	CPUE > Stock Size (127 mm)	Trap Net	7.4 fish/net night
	Good	CPUE > Minimum size Limit	Trap Net	2.3 fish/net night
<i>Mortality*</i>	<i>High</i>	<i>Total Mortality (Z)</i>	<i>Trap Net</i>	<i>73%</i>
Angling Pressure	High	Fishing Effort (hours)	Creel Survey	231,877**
Fishing Success	Excellent	Angler Catch Rate (#fish/hour)	Creel Survey	1.81**
Value of Fishery	Good	Trip Expenditures	Creel Survey	\$171,420**

* Based on an age data set collected in 1999.

** any crappie

Fishery Forecast:

The large 2003 year class is producing some harvestable size crappie and will make this year's crappie fishing excellent. Some reproduction was noted in both the trap nets and summer seining, which should help maintain the fishery. However, this recruitment is considered poor for crappie.

Management Recommendations:

1. Maintain current size and creel limit.
2. The TWRA is recommending that an elevation of 975 feet msl be attained by April 1.
3. Convert Henderson Island waterfowl pond for fish production.

White Crappie

Population Parameter	Annual Rating	Measure	Gear	Value
Recruitment	Fair	Sub-stock CPUE	Trap Net	1.1 fish/net night
<i>Growth*</i>	<i>Good</i>	<i>Mean TL at Age-3</i>	<i>Trap Net</i>	<i>312.49</i>
	Excellent	RSD-10	Trap Net	67%
Density	Poor	CPUE > Stock Size (5 inches)	Trap Net	0.4 fish/net night
	Poor	CPUE > Minimum size Limit	Trap Net	0.2 fish/net night
<i>Mortality*</i>	<i>High</i>	<i>Total Mortality (Z)</i>	<i>Trap Net</i>	<i>69%</i>
Angling Pressure	High	Fishing Effort (hours)	Creel Survey	231,877**
Fishing Success	Excellent	Angler Catch Rate (#fish/hour)	Creel Survey	1.81**
Value of Fishery	Good	Trip Expenditures	Creel Survey	\$171,420**

* Based on an age data set collected in 1999.

** any crappie

Fishery Forecast:

The large 2003 year class is producing some harvestable size crappie and will make this year's crappie fishing excellent. Some reproduction was noted in both the trap nets and summer seining, which should help maintain the fishery. However, this recruitment is considered poor for crappie.

Management Recommendations:

1. Maintain current size and creel limit.
2. The TWRA is recommending that an elevation of 975 feet msl be attained by April 1.
3. Convert Henderson Island waterfowl pond for fish production.

Sauger

Population Parameter	Annual Rating	Measure	Gear	Value
Recruitment	Good	Age-1 CPUE	Gill Net	4.3 fish/net night
	Poor	Sub-stock CPUE	Gill Net	0.0
<i>Growth*</i>		<i>Mean TL at Age-3</i>	<i>Gill Net</i>	
	Good	RSD-P (380 mm)	Gill Net	47%
Density	Good	CPUE >Stock Size (200 mm)	Gill Net	13.0 fish/net night
	Good	CPUE > Minimum size Limit	Gill Net	5.1 fish/net night
<i>Mortality**</i>		<i>Total Mortality (Z)</i>	<i>Gill Net</i>	<i>NA</i>
Angling Pressure	Moderate	Fishing Effort (hours)	Creel Survey	11,140
Fishing Success	Good	Angler Catch Rate (#fish/hour)	Creel Survey	0.36
Value of Fishery	Fair	Trip Expenditures	Creel Survey	13,150

* *Did not collect any age three sauger. Growth is typically excellent in the Douglas sauger population.*

** *Data set did not meet criteria for calculating mortality*

Fishery Forecast:

A missing 2002 year class was noted in the 2004 and 2005 data set. Although this is not detrimental, it does indicate that some factor caused a very unsuccessful reproductive year in 2002. This year, good numbers of age one sauger were collected which indicates a successful spawn in 2004. These fish should recruit to harvestable size for the 2006 season. The spawning grounds were sampled in April with electrofishing gear and there were good numbers of sauger observed. However, we only collected very few females. This is not necessarily indicative of the population, because the females may have not been present at the time of sampling

Management Recommendations:

Evaluate introducing a regulation to protect mature females. Data indicate that the majority of the females in the spawning run are greater than 381 mm (minimum size limit) and the majority of the male sauger are less than 381 mm.

Stocking and Stocking Evaluations

Species	Number Stocked	Mark	Evaluation	# Fish / Net Night
White Crappie	15,000	None	Trap Netting	Substock CPUE = 1.1
Black Crappie	0	None	Trap Netting	Substock CPUE = 0.6

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. The morphometric, physical, and chemical characteristics associated with Douglas Reservoir.

Parameter	Measurement	
	<i>English</i>	<i>Metric</i>
Surface Area	30,400 ac	12,303 ha
Drainage Area	4,541 sq. mi	11,770 sq. km
Full Pool Elevation	1,000 ft msl	305 m msl
Mean Annual Fluctuation	60 feet	18 m
Shoreline Distance	513 mi	826 km
Maximum Depth	129 ft	39 m
Outlet Depth (upper)	99 ft	30 m
Outlet Depth (lower)	118 ft	36 m
Thermocline Depth	23 ft	7 m
Mean Chlorophyll (Forebay)	6.8 ppm	6.8 mg/l
Shoreline Development		17%
Trophic Status (Forebay)		mesotrophic
Trophic Index, Carlson (1977)		49.3
Hydraulic Retention Time		105 days
Reservoir Age		61 years

Table 2. Fish stocked in Douglas Reservoir 1993 – 2004.

Species	Month/Year	Rate (per acre)	Length Range (in)	Number
Sauger	May 1993	0.1	1.5	1,760
	May 2000	3.6	1.0 – 2.0	111,158
	May 2001	5.6	1.0 – 2.0	169,904
	May 2003	4.8	1.25 – 2.25	145,245
	June 2004	0.7	2.0 – 3.0	20,000
White Crappie	Oct 2002	0.8	2.0 – 6.0	22,959
	June 2005	0.5	2.0 – 5.0	15,000
Smallmouth Bass	June 2005	0.25	2.0 – 3.5	7650
Black Crappie	Oct 2002	5.3	1.25 – 4.5	161,786

Table 3. Number of species collected by gear type in Douglas Reservoir, 2005. Effort is represented in hours fished for electrofishing and gillnetting and net nights for trapnetting.

Species	Winter Gill Netting			Spring Electrofishing			Fall Trapnetting		
	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	598	196	3.1	X	X	X
Smallmouth Bass	X	X	X	36	15.5	2.3	X	X	X
Spotted Bass	X	X	X	0	0	3.1	X	X	X
Black Crappie	X	X	X	97	31.6	3.1	717	7.96	90
Black-Nose Crappie	X	X	X	1	0.33	3.1	6	0.07	90
White Crappie	X	X	X	20	6.5	3.1	135	1.5	90
Walleye	8	1.1	7	15	4.9	3.1	X	X	X
Sauger	91	13	7	3	1	3.1	X	X	X
White Bass	X	X	X	X	X	X	X	X	X
Gizzard Shad	X	X	X	X	X	X	X	X	X
Threadfin Shad	X	X	X	X	X	X	X	X	X
Alewife	X	X	X	X	X	X	X	X	X
Bluegill	X	X	X	X	X	X	X	X	X

X = non targeted species

Table 4. Mean catch per unit effort and relative stock density by RSD category for Douglas Reservoir 1998 – 2004.

Species	Year	Gear	Number of Samples	RSD Substock			RSD Stock - Quality			RSD Quality - Preferred			RSD Preferred-Memorabile			RSD Memorabile-Trophy			RSD Trophy			PSD	Total	
				#	CPUE	RSD	#	CPUE	RSD	#	CPUE	RSD	#	CPUE	RSD	#	CPUE	RSD	#	CPUE	RSD	#	CPUE	
				Largemouth Bass	1998	EL	15	155	40	28	144	38	35	199	53	49	61	16	15	5	1.3	1		
	1999	EL	6	79	53	31	109	73	64	43	29	25	19	13	11	1	0.7	1				36	252	168
	2000	EL	6	76	50	28	100	66	51	82	54	42	7	8.6	7	1	0.1	1				49	272	179
	2001	EL	12	120	39	29	134	43	46	129	42	44	30	10	10	1	0.3					54	414	133
	2002	EL	12	77	25	17	99	33	26	225	74	58	60	20	16	1	0.3					74	462	152
	2003	EL	13	50	14	21	73	21	38	55	16	29	57	21	30	7	3	4				62	242	80
	2004	EL	12	61	20	17	147	48	50	102	34	35	45	15	15	0	0	0	0	0	0	50	355	115.8
	2005	EL	12	82	27	14	194	64	38	216	71	42	100	33	19	6	2	1	0	0	0	62	598	196
Smallmouth Bass	2004	EL	2	1	0.6	3	13	7.4	38	9	5.1	26	8	4.6	24	3	1.7	9	0	0	0	62	35	19.9
	2005	EL	2	0	0	0	15	6.5	42	5	2.1	14	11	4.7	31	4	1.7	11	1	0.4	3	58	36	15.5
Black Crappie	1998	TN	89	106	1.2	34	53	0.6	24	88	1	43	65	0.7	32	4	0	2				77	313	3.5
	1999	TN	90	20	0.2	7	15	0.2	6	135	1.5	54	89	1	36	10	0.1	4				94	269	3
	2000	TN	90	85	0.9	52	13	0.1	16	39	0.4	49	26	0.3	33	2	0	3				85	165	1.8
	2001	TN	89	21	0.2	20	17	0.2	20	28	0.3	33	27	0.3	31	13	0.2	15				79	107	1.2
	2002	TN	90	97	1.1	19	134	1.5	31	177	2	41	105	1.1	25	11	0.1	3				69	525	6
	2003	TN	89	619	6.9	66	58	0.7	18	112	1.4	35	112	1.3	35	18	0.2	6				76	935	10.6
	2004	TN	89	31	0.4	5	69	0.8	12	283	3.2	50	197	2.2	35	12	0.1	2	0	0	0	88	592	6.7
	2005	TN	90	52	0.6	7	104	1.2	15	287	3.2	43	253	2.8	38	27	0.3	4	0	0	0	85	723	8
White Crappie	1998	TN	89	69	0.8	58	4	0	8	18	0.2	32	27	0.3	54	3	0	6				92	119	1.3
	1999	TN	90	5	0.1	23	1	0	6	5	0.1	29	7	0.1	41	4	0	24				94	22	0.2
	2000	TN	90	16	0.2	76	0	0	0	0	0	0	1	0	5	3	0	14				19	21	0.2
	2001	TN	89	8	0.1	50	1	0	13	1	0	13	3	0	38	3	0	38				89	16	0.2
	2002	TN	90	1	0.2	2	22	0.2	35	24	0.3	39	7	0.1	11	8	0.1	13				63	87	1
	2003	TN	89	780	8.8	97	8	0.1	35	4	0.1	17	6	0.1	26	5	0.1	22				65	803	9
	2004	TN	89	9	0.1	19	5	0.1	13	15	0.2	39	16	0.2	39	3	0	8	0	0	0	87	47	0.5
	2005	TN	90	102	1.1	76	3	0	9.1	8	0.1	24	15	0.2	46	7	0.1	21	0	0	0	91	135	1.5

Table 5. Largemouth bass mean relative weights (Wr) in Douglas reservoir, spring 2005.

Length Group	Mean Wr	Std. Error	N
150	85.556	3.775	9
175	86.264	1.539	48
200	90.677	1.617	86
225	94.563	4.188	52
250	91.613	3.776	22
275	91.859	1.402	34
300	92.935	0.765	85
325	90.850	1.144	62
350	90.552	1.020	59
375	92.705	1.069	40
400	97.315	2.645	17
425	97.565	1.517	23
450	101.044	2.706	15
475	101.147	2.706	14
500	112.439	6.487	2
525	109.332	5.970	3
550			
575	114.864		1
Total =			572

Table 6. Black crappie mean relative weights (Wr) in Douglas Reservoir fall 2005.

Length Group	Mean Wr	Std. Error	N
125	84.788	4.170	7
150	91.671	3.394	11
175	95.285	1.014	85
200	98.700	0.624	142
225	96.027	0.725	143
250	95.606	0.494	187
275	94.114	0.844	63
300	94.682	1.724	22
325	90.286	1.349	3
350	84.726	9.222	2
375			
400			
Total =			665

Table 7. White crappie mean relative weights (Wr) in Douglas Reservoir fall 2005.

Length Group	Mean Wr	Std. Error	N
125			
150	79.548		1
175	96.793	2.482	2
200	93.428	3.286	3
225	93.901	5.993	5
250	99.583	3.973	7
275	91.938	5.579	8
300	92.300	13.998	2
325	94.135	5.648	4
350	102.539		1
375			
400			
Total =			33

Table 8. Sauger mean relative weights in Douglas Reservoir December 2005.

Length Group	Mean Wr	Std. Error	N
150			
175			
200			
225			
250	84.710	3.142	3
275	89.510	5.976	3
300	88.819	2.640	7
325	92.553	1.560	12
350	93.757	1.568	18
375	91.032	1.743	21
400	92.893	1.233	20
425	99.241	2.537	5
450	97.639	1.524	2
475			
500			
Total =			91

Table 9. Douglas Reservoir fish habitat enhancement summary for 2005.

Location	New Sites			Renovated Sites			Expanded Sites		
	Number	Units	Acres	Number	Units	Acres	Number	Units	Acres
FBRM 34.25 L*				1	50	1.00			
FBRM 34.35 L*				1	50	1.00			
FBRM 34.45 L*				1	25	0.50			
FBRM 34.5 L*				1	50	1.00			
FBRM 34.75 L*				1	25	0.50			
FBRM 35.0 L*				1	100	2.00			
FBRM 35.1 L*				1	50	1.00			
FBRM 35.25 L*				1	50	1.00			
FBRM 42.25 L*				1	2000	20.00			
Total	0	0	0	9	2400	28	0	0	0

*Christmas Trees

Figures

Figure 1. Douglas Reservoir with sites sampled in 2005.

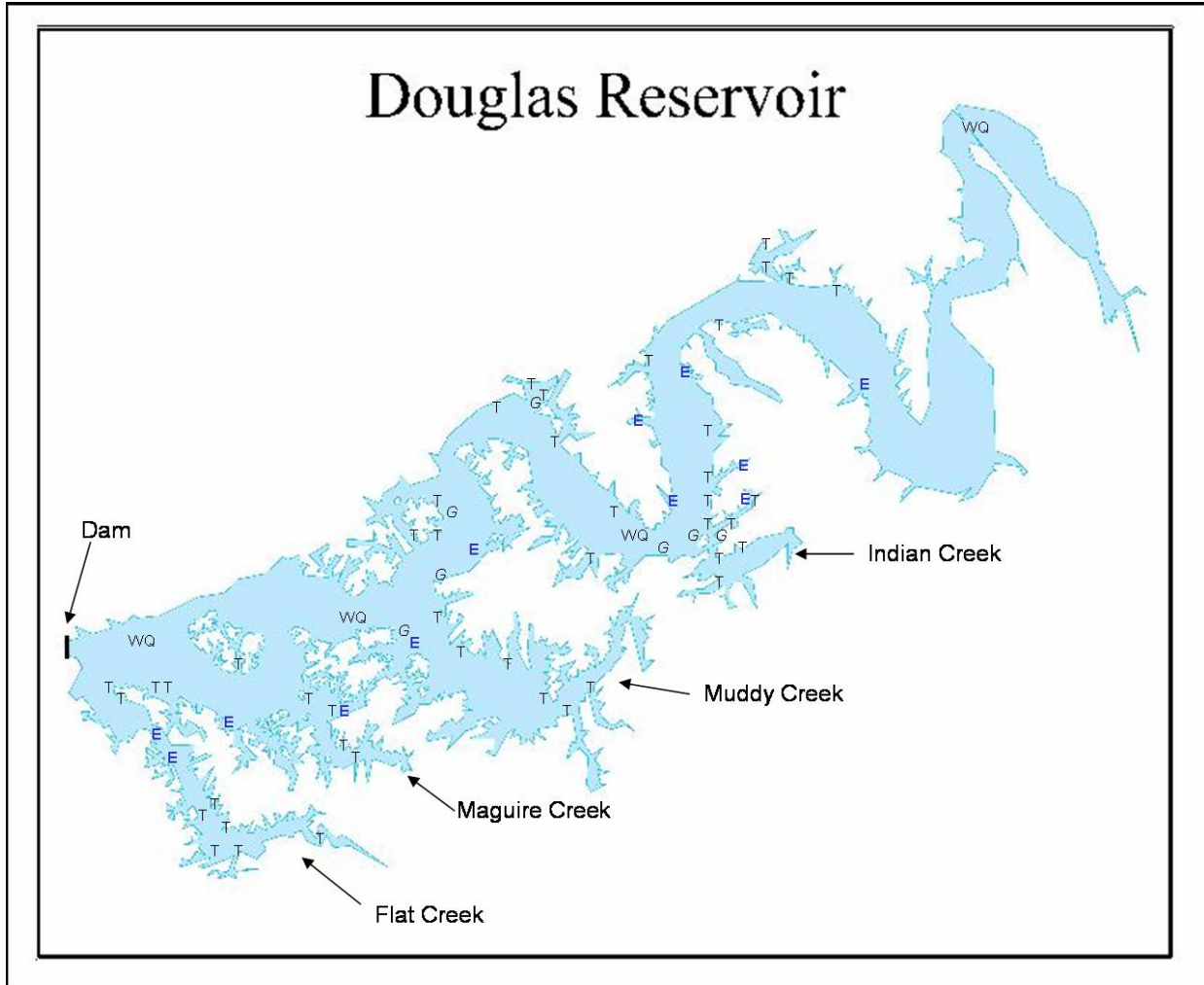


Figure 1

E = Electrofishing
G = Gill Netting
T = Trap Netting
WQ = Water Quality

Largemouth Bass

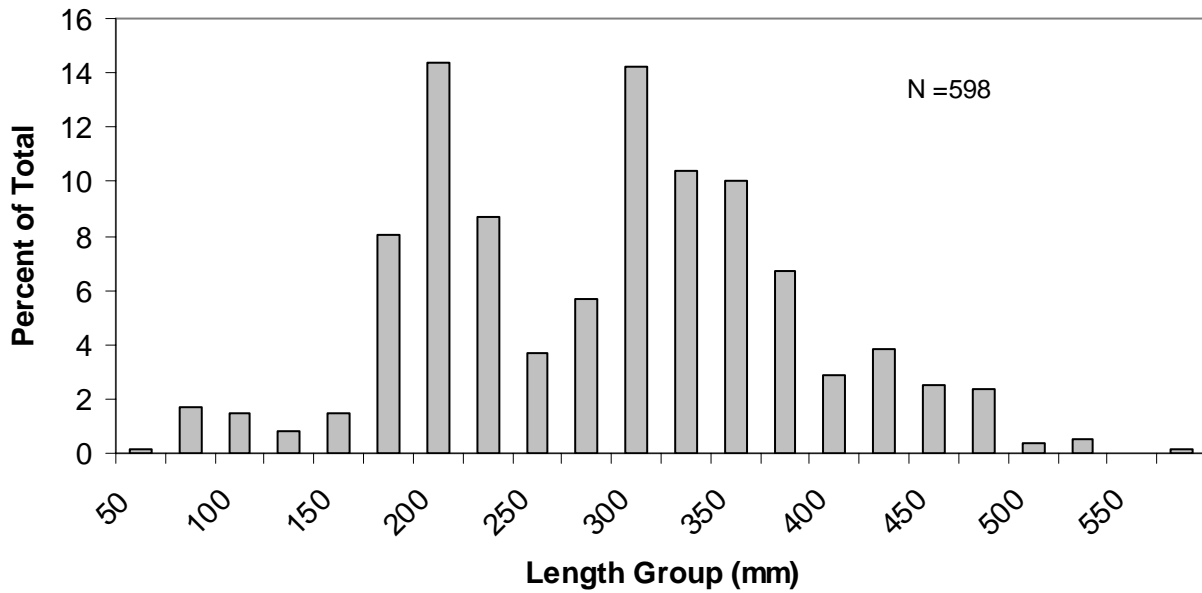


Figure 2. Largemouth bass length frequency in Douglas Reservoir, spring 2005.

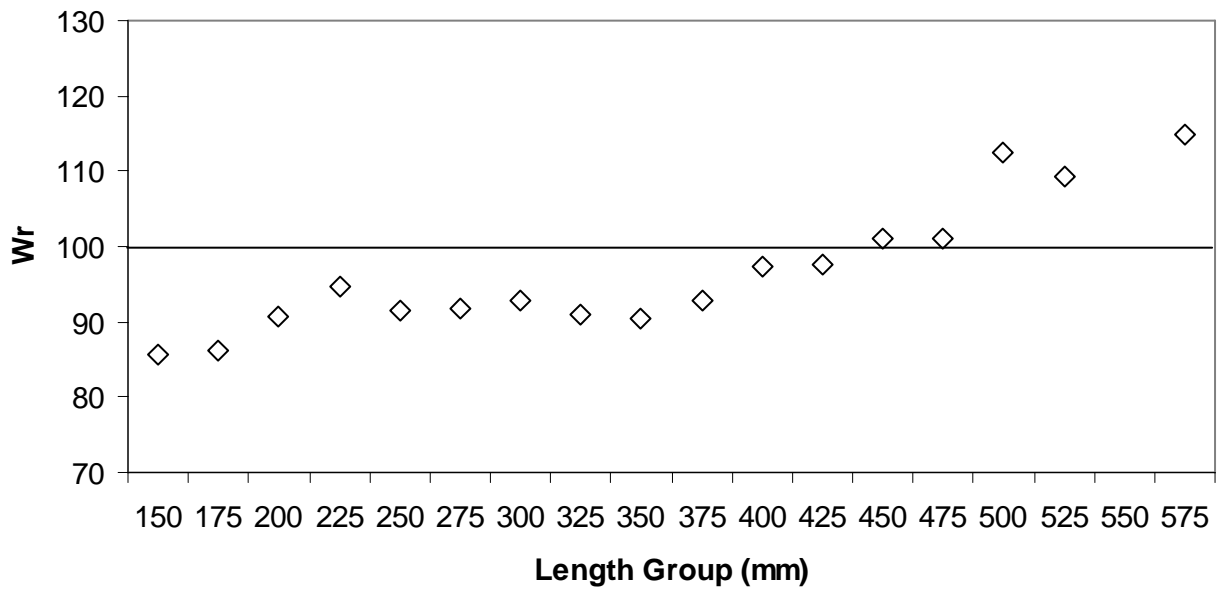


Figure 3. Largemouth bass mean relative weights (Wr) in Douglas Reservoir, spring 2005.

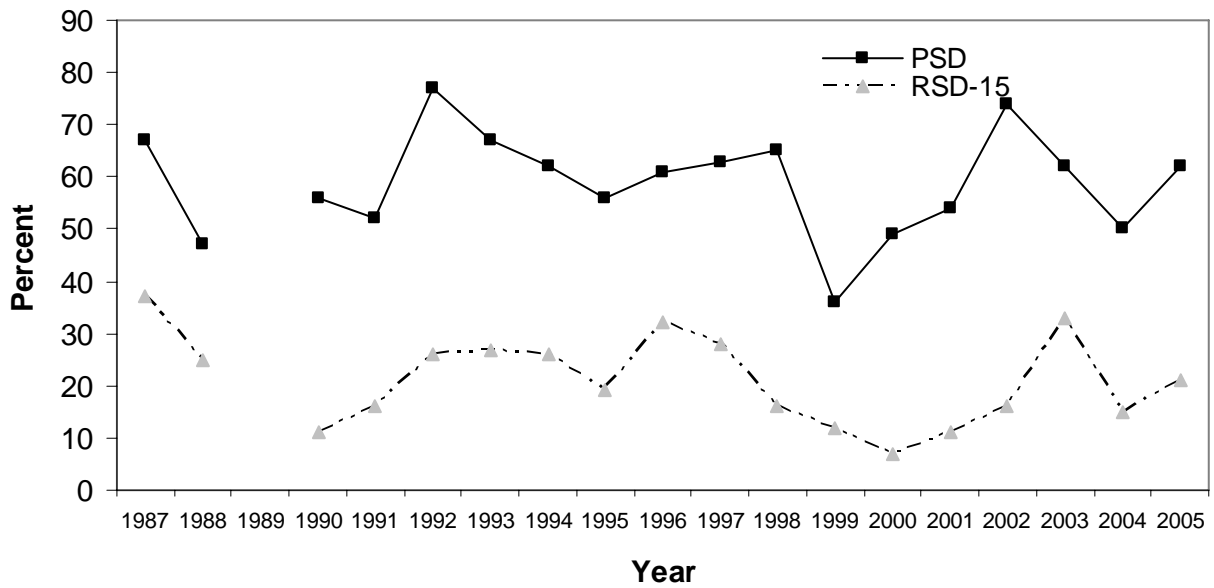


Figure 4. Largemouth bass traditional PSD and RSD-15 values in Douglas Reservoir 1986 – 2005.

Black Crappie

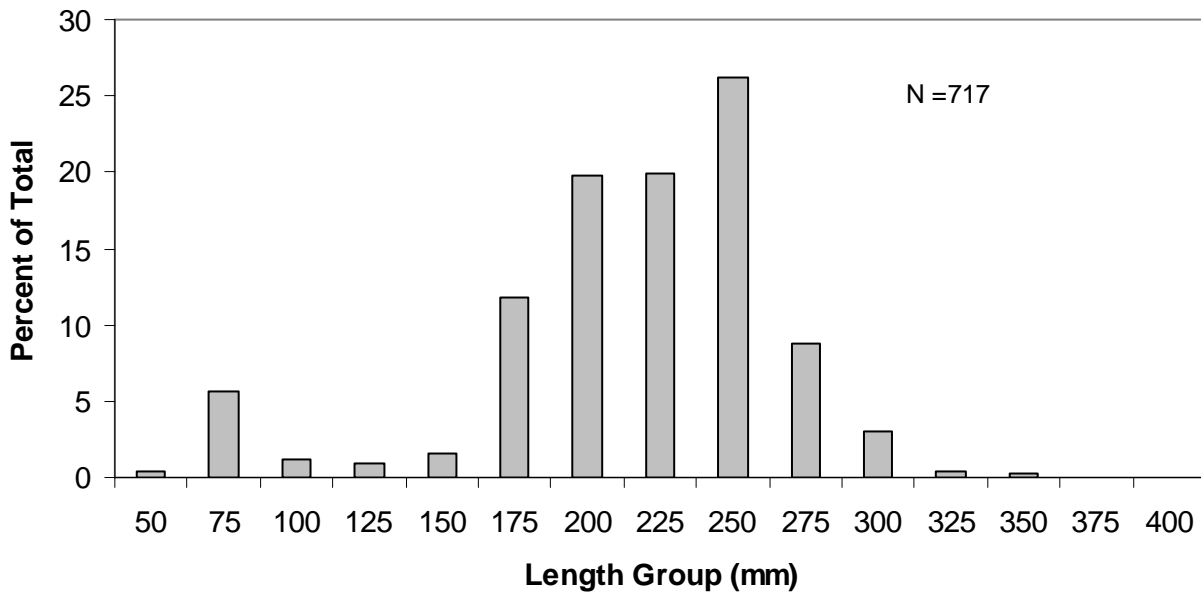


Figure 5. Black Crappie length frequency in Douglas Reservoir, fall 2005.

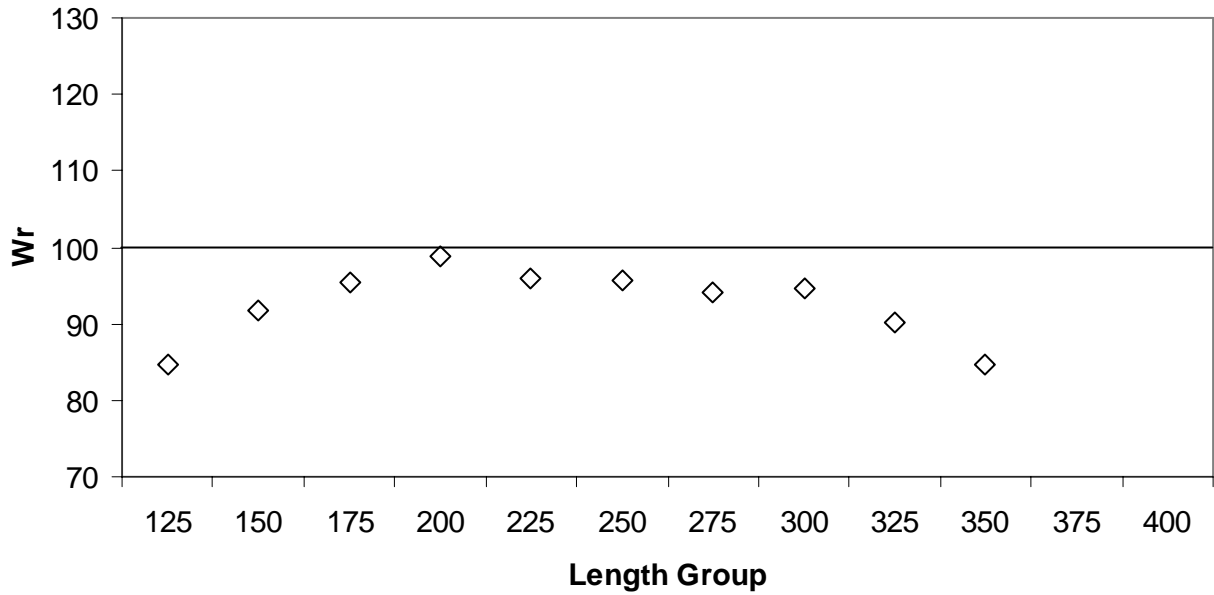


Figure 6. Black crappie mean relative weights (Wr) in Douglas Reservoir, fall 2005.

White Crappie

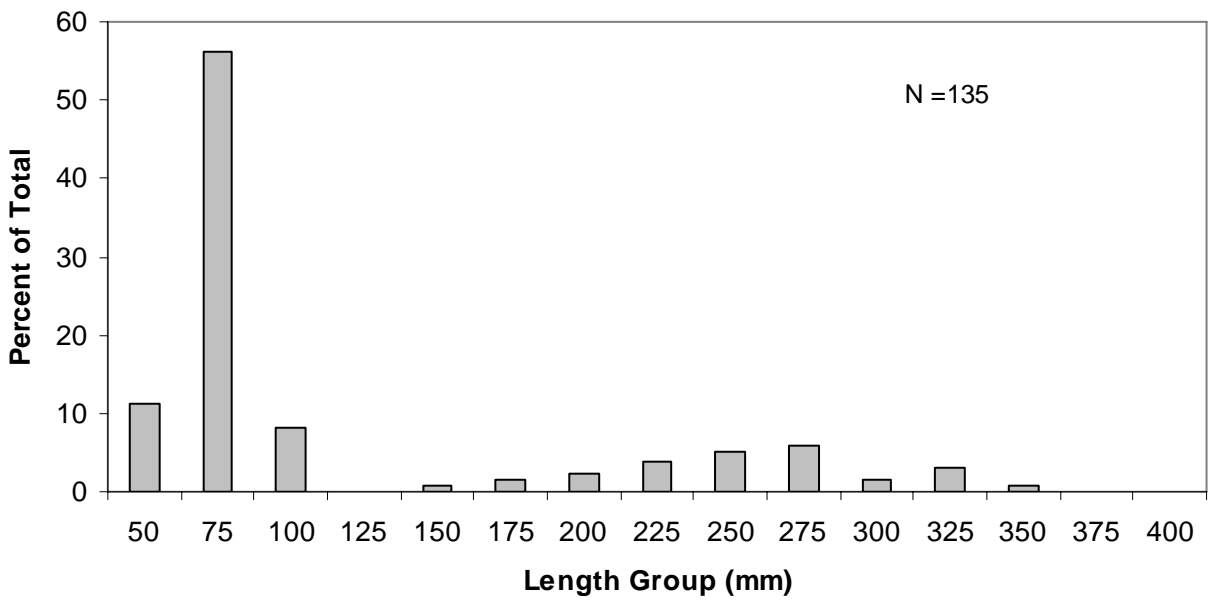


Figure 7. White Crappie length frequency in Douglas Reservoir, fall 2005.

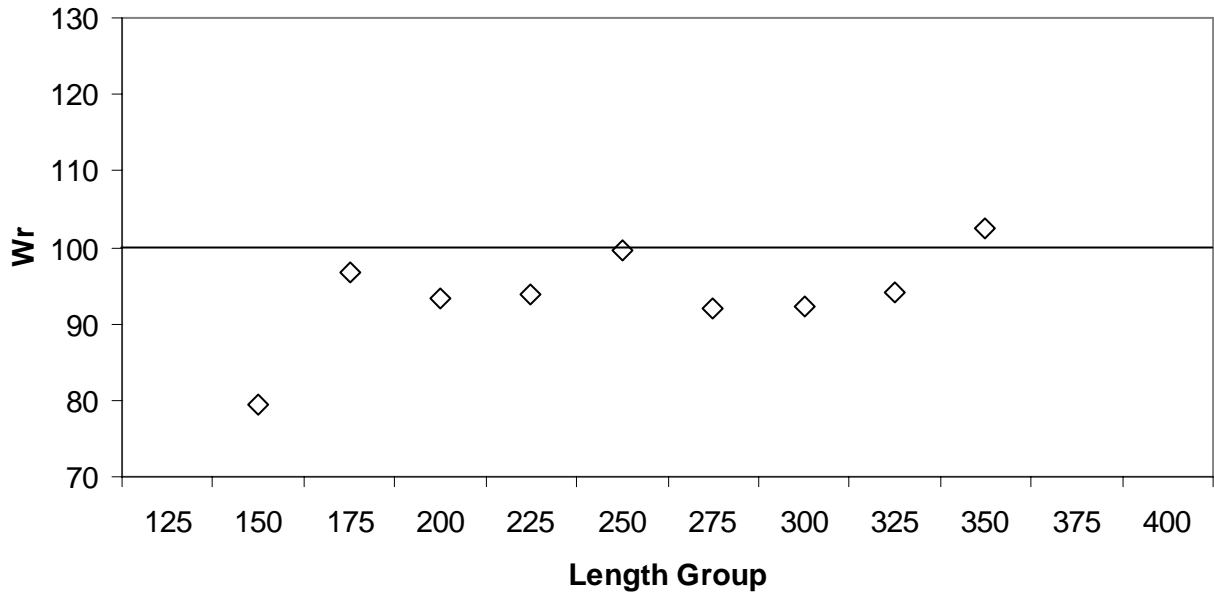


Figure 8. White crappie mean relative weights (Wr) in Douglas Reservoir, fall 2005.

Sauger

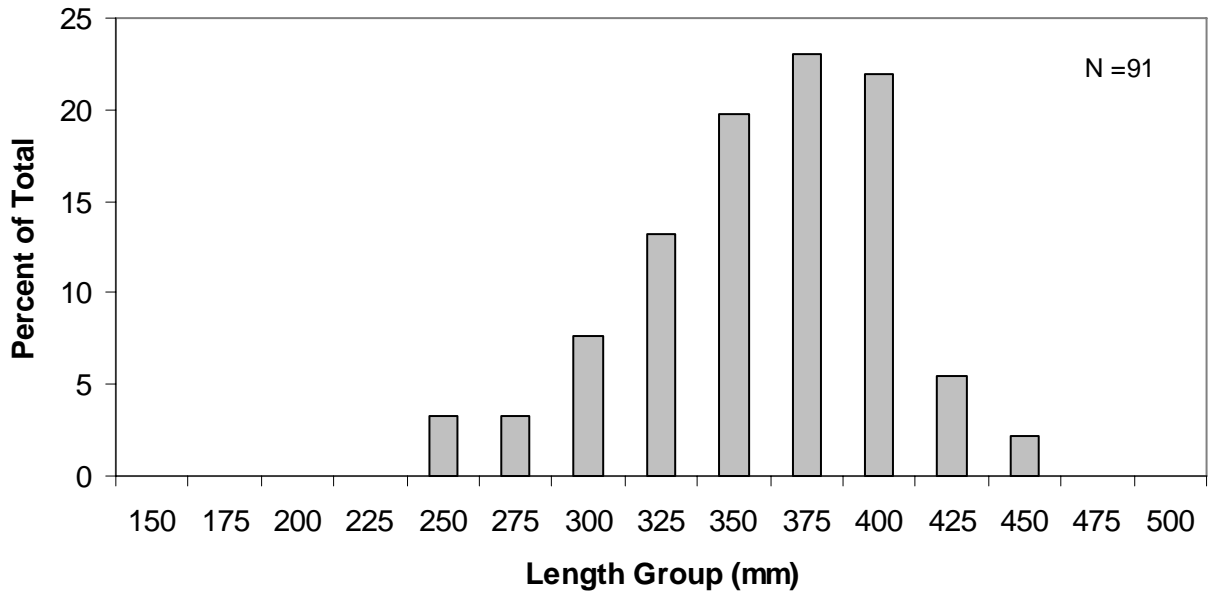


Figure 9. Sauger length frequency in Douglas Reservoir, winter 2005.

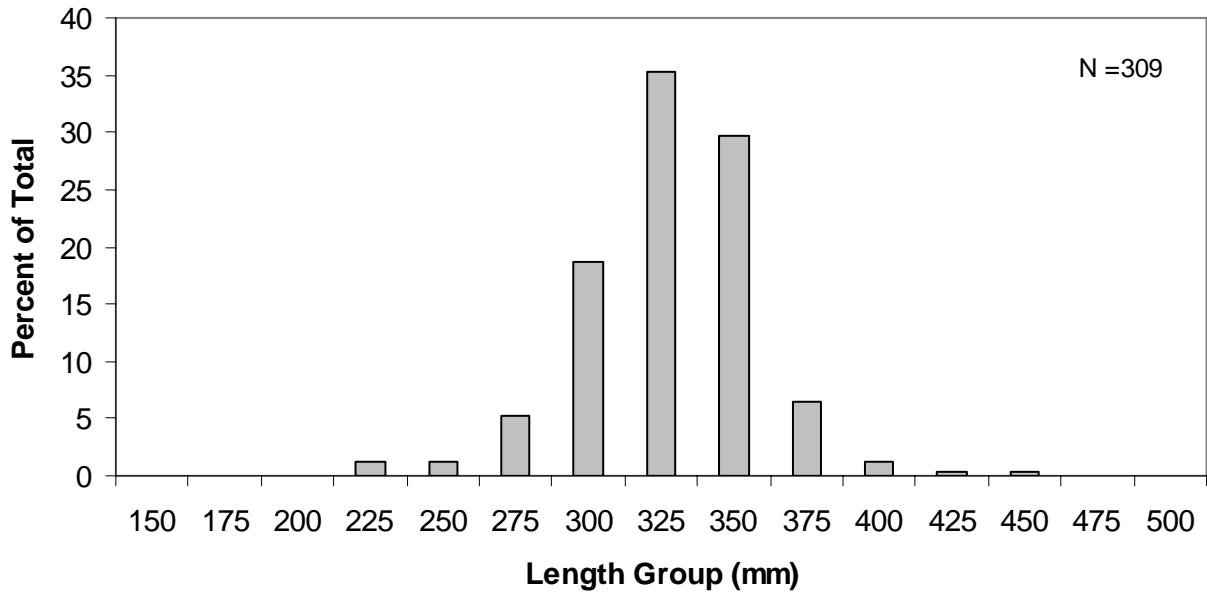


Figure 10. Sauger length frequency in Douglas Reservoir, spring 2005.

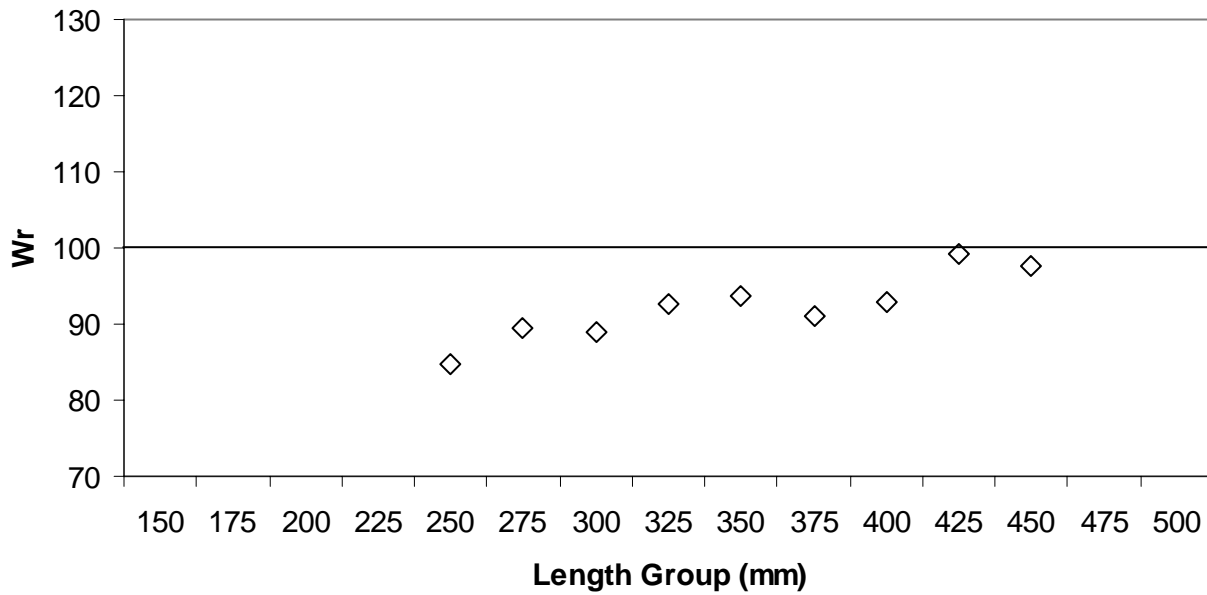


Figure 11. Sauger mean relative weights (Wr) in Douglas Reservoir, winter 2005.

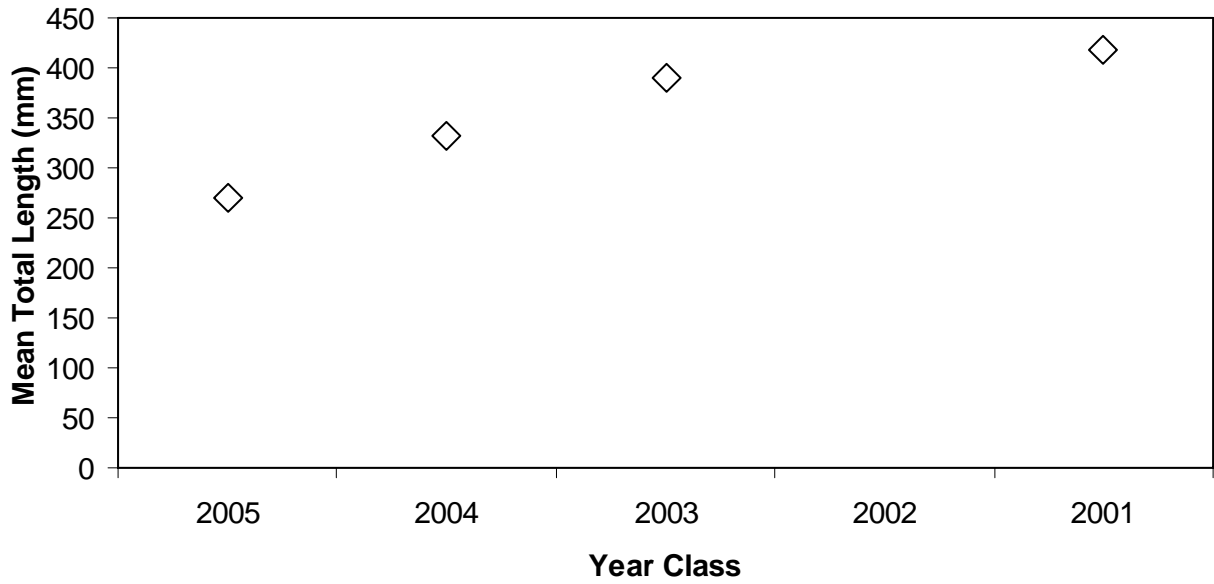


Figure 12. Sauger mean length at age in Douglas Reservoir, December 2005.

Appendix A
Water Quality

Table A1. Douglas Reservoir, water quality data at FB 34, July 14, 2005.

Depth (m)	Temp ©	Cond	DO	Site	Secchi (m)	Time
0	26.3	173	9.0	FB34	2.0	1330
1	26.3	174	9.1			
2	26.3	174	9.1			
3	26.2	174	9.1			
4	26.2	174	9.1			
5	26.1	174	9.0			
6	25.8	173	8.9			
7	25.5	168	8.6			
8	24.2	164	8.3			
9	22.7	150	8.0			
10	22.5	150	7.9			
11	22.0	163	7.8			
12	21.7	169	7.7			
13	21.5	171	7.6			
14	21.2	174	7.5			
15	21.1	176	7.5			
16	20.5	180	7.4			
17	20.0	182	7.4			
18	19.9	182	7.4			
19	19.7	182	7.3			
20	19.4	181	7.3			
21	19.0	182	7.3			
22	18.7	181	7.3			
23	18.4	182	7.3			
24	17.8	182	7.2			
25	17.3	181	7.2			
26	16.6	184	7.2			
27	16.2	184	7.2			
28	16.1	184	7.2			
29	15.9	184	7.2			
30	15.7	184	7.1			

Table A2. Douglas Reservoir, water quality data at FB 40, July 14, 2005.

Depth (m)	Temp ©	Cond	DO	Site	Secchi (m)	Time
0	26.1	166	9.0	FB40	1.8	1240
1	26.1	167	9.1			
2	26.1	167	9.1			
3	26.1	168	9.1			
4	25.9	167	9.0			
5	25.9	167	9.0			
6	25.8	166	8.9			
7	25.5	165	8.7			
8	23.0	153	8.2			
9	22.8	156	8.1			
10	22.5	158	7.9			
11	22.1	154	7.9			
12	22.1	153	7.8			
13	22.1	150	7.7			
14	21.2	152	7.7			
15	21.1	154	7.6			
16	20.5	162	7.5			
17	20.0	170	7.4			
18	19.9	171	7.4			
19	19.6	179	7.3			
20	19.1	180	7.3			
21	18.4	184	7.3			
22	18.0	185	7.2			
23	17.5	187	7.2			
24	17.1	188	7.2			
25	16.6	189	7.2			
26	16.4	190	7.1			
27	16.0	189	7.2			
28	15.7	190	7.1			
29	14.9	195	7.1			
30	14.9	197	7.0			

Table A3. Douglas Reservoir, water quality data at FB 50, July 14, 2005.

Depth (m)	Temp ©	Cond	DO	Site	Secchi (m)	Time
0	26.5	157	9.2	FB50	1.5	1112
1	26.3	156	9.2			
2	26.1	156	9.1			
3	26.1	155	9.0			
4	26.0	155	9.0			
5	26.0	155	9.0			
6	25.9	155	9.0			
7	24.8	147	8.6			
8	23.9	141	8.2			
9	22.9	134	8.0			
10	22.7	132	7.8			
11	22.1	129	7.7			
12	22.0	120	7.6			
13	21.8	130	7.5			
14	21.6	135	7.4			
15	21.2	142	7.3			
16	20.7	150	7.2			
17	20.2	159	7.1			
18	19.9	164	7.1			
19	18.7	180	7.0			
20	18.7	180	7.0			
21	Bottom					
22						
23						
24						
25						
26						
27						
28						
29						
30						

Table A4. Douglas Reservoir, water quality data at FB 60, July 14, 2005.

Depth (m)	Temp ©	Cond	DO	Site	Secchi (m)	Time
0	26.4	148	9.2	FB60	1.5	1208
1	26.4	148	9.2			
2	26.3	148	9.2			
3	26.2	148	9.2			
4	26.1	147	9.2			
5	26.0	145	9.1			
6	25.5	140	8.9			
7	24.5	132	8.7			
8	23.3	124	8.3			
9	23.1	122	8.2			
10	22.8	122	8.0			
11	22.5	124	7.9			
12	22.3	127	7.8			
13	22.1	127	7.7			
14	22.1	127	7.7			
15	21.8	137	6.9			
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

Table A5. Douglas Reservoir, water quality data at FB 34, August 3, 2005.

Depth (m)	Temp ©	Cond	DO	Site	Secchi (m)	Time
0	30.4	176	8.8	FB34	1.8	1250
1	29.8	177	8.9			
2	29.5	176	8.9			
3	29.4	176	8.9			
4	29.3	176	8.8			
5	28.7	176	8.6			
6	27.5	174	7.9			
7	25.5	155	7.2			
8	25.1	150	6.9			
9	24.5	144	6.8			
10	24.0	149	6.7			
11	23.7	143	6.7			
12	23.5	141	6.6			
13	23.2	147	6.6			
14	22.8	149	6.5			
15	22.5	149	6.5			
16	22.3	149	6.4			
17	22.2	152	6.4			
18	22.0	150	6.4			
19	21.8	153	6.4			
20	21.5	155	6.4			
21	21.3	160	6.4			
22	21.1	163	6.4			
23	20.9	167	6.4			
24	20.5	170	6.4			
25	20.3	174	6.5			
26	19.8	178	6.4			
27	19.5	183	6.5			
28	19.1	184	6.5			
29	18.6	189	6.5			
30	18.3	190	6.5			

Table A6. Douglas Reservoir, water quality data at FB 40, August 3, 2005.

Depth (m)	Temp ©	Cond	DO	Site	Secchi (m)	Time
0	30.2	168	8.9	FB40	1.8	1200
1	29.5	168	8.9			
2	29.2	168	8.7			
3	29.1	168	8.7			
4	29.0	169	8.7			
5	28.7	168	8.7			
6	27.6	164	8.0			
7	26.1	163	7.4			
8	25.3	150	7.1			
9	24.9	149	7.0			
10	24.5	141	6.9			
11	24.0	134	6.8			
12	23.6	133	6.8			
13	23.4	135	6.7			
14	23.0	144	6.6			
15	22.8	144	6.6			
16	22.5	142	6.5			
17	22.3	140	6.5			
18	22.1	137	6.5			
19	21.9	140	6.5			
20	21.7	150	6.5			
21	21.3	157	6.5			
22	21.1	152	6.5			
23	20.7	152	6.5			
24	20.4	155	6.4			
25	20.0	160	6.5			
26	19.7	166	6.4			
27	19.3	178	6.4			
28	18.7	186	6.5			
29	17.3	207	6.5			
30	16.5	240	6.5			

Table A7. Douglas Reservoir, water quality data at FB 50, August 3, 2005.

Depth (m)	Temp ©	Cond	DO	Site	Secchi (m)	Time
0	31.0	165	9.1	FB50	1.5	1350
1	30.7	164	9.1			
2	30.0	164	9.2			
3	29.7	164	9.0			
4	28.0	156	8.2			
5	27.4	151	7.5			
6	26.7	149	7.2			
7	25.5	139	7.0			
8	25.3	139	6.9			
9	24.8	137	6.8			
10	24.4	134	6.7			
11	24.1	134	6.6			
12	23.8	133	6.6			
13	23.6	134	6.5			
14	23.2	134	6.5			
15	22.8	138	6.4			
16	22.4	140	6.4			
17	22.1	141	6.3			
18	21.7	145	6.3			
19	21.0	156	6.3			
20	20.7	162	6.3			
21	19.8	186	6.4			
22	Bottom					
23						
24						
25						
26						
27						
28						
29						
30						

Table A8. Douglas Reservoir, water quality data at FB 60, August 3, 2005.

Depth (m)	Temp ©	Cond	DO	Site	Secchi (m)	Time
0	31.3	163	9.0	FB60	1.0	1430
1	30.1	161	8.9			
2	29.1	157	8.7			
3	27.6	148	7.4			
4	27.0	147	7.2			
5	26.2	154	7.0			
6	25.8	150	6.9			
7	25.0	137	6.8			
8	24.4	131	6.6			
9	24.3	133	6.6			
10	24.0	133	6.5			
11	23.9	133	6.5			
12	23.3	3138	6.4			
13	22.9	142	6.3			
14	22.4	146	6.3			
15	21.8	160	6.3			
16	Bottom					
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

Table A9. Douglas Reservoir, water quality data at FB 34, September 12, 2005.

Depth (m)	Temp ©	Cond	DO	Site	Secchi (m)	Time
0	27.2	184	8.4	FB34	2.3	1135
1	26.9	184	8.5			
2	26.8	184	8.4			
3	26.7	184	8.2			
4	26.7	185	8.0			
5	26.4	185	7.7			
6	26.3	185	7.6			
7	26.2	185	7.6			
8	26.1	185	7.4			
9	26.0	184	7.3			
10	25.8	183	7.1			
11	25.4	179	6.8			
12	25.2	180	6.8			
13	24.9	180	6.8			
14	24.8	176	6.7			
15	24.5	178	6.7			
16	24.2	174	6.7			
17	24.1	173	6.7			
18	24.0	173	6.7			
19	23.9	176	6.7			
20	23.8	170	6.7			
21	23.7	170	6.7			
22	23.5	171	6.7			
23	23.3	172	6.7			
24	23.1	172	6.7			
25	22.9	172	6.7			
26	22.6	171	6.7			
27	22.3	174	6.7			
28	21.9	175	6.7			
29	Bottom					
30						

Table A10. Douglas Reservoir, water quality data at FB 40, September 12, 2005.

Depth (m)	Temp ©	Cond	DO	Site	Secchi (m)	Time
0	26.5	184	8.5	FB40	1.9	1050
1	26.4	184	8.5			
2	26.3	184	8.5			
3	26.2	184	8.3			
4	26.2	184	8.3			
5	26.2	184	8.3			
6	26.2	184	8.4			
7	26.2	184	8.4			
8	26.1	184	8.0			
9	26.1	184	7.8			
10	25.8	183	7.2			
11	25.3	184	7.0			
12	25.1	183	6.8			
13	24.9	182	6.8			
14	24.8	180	6.7			
15	24.3	177	6.6			
16	24.3	176	6.6			
17	24.2	175	6.6			
18	24.0	173	6.6			
19	23.8	178	6.6			
20	23.8	171	6.6			
21	23.5	168	6.6			
22	23.5	168	6.6			
23	23.3	171	6.6			
24	22.8	179	6.7			
25	22.6	185	6.7			
26	22.3	208	6.8			
27	Bottom					
28						
29						
30						

Table A11. Douglas Reservoir, water quality data at FB 50, September 12, 2005.

Depth (m)	Temp ©	Cond	DO	Site	Secchi (m)	Time
0	27.3	187	9.0	FB50	1.8	1300
1	27.1	185	9.0			
2	26.2	184	8.8			
3	26.2	183	8.7			
4	26.1	183	8.0			
5	25.9	183	7.6			
6	25.8	184	7.4			
7	25.8	183	7.3			
8	25.8	183	7.3			
9	25.7	183	7.3			
10	25.4	183	7.1			
11	24.6	181	6.9			
12	24.4	179	6.8			
13	24.3	177	6.7			
14	23.6	170	6.6			
15	23.6	169	6.6			
16	23.5	17	6.5			
17	23.5	167	6.5			
18	Bottom					
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

No data taken for FB 60 in September, 2005.

Figure A1. Douglas Reservoir water quality data at FBRM 34, July 2005.

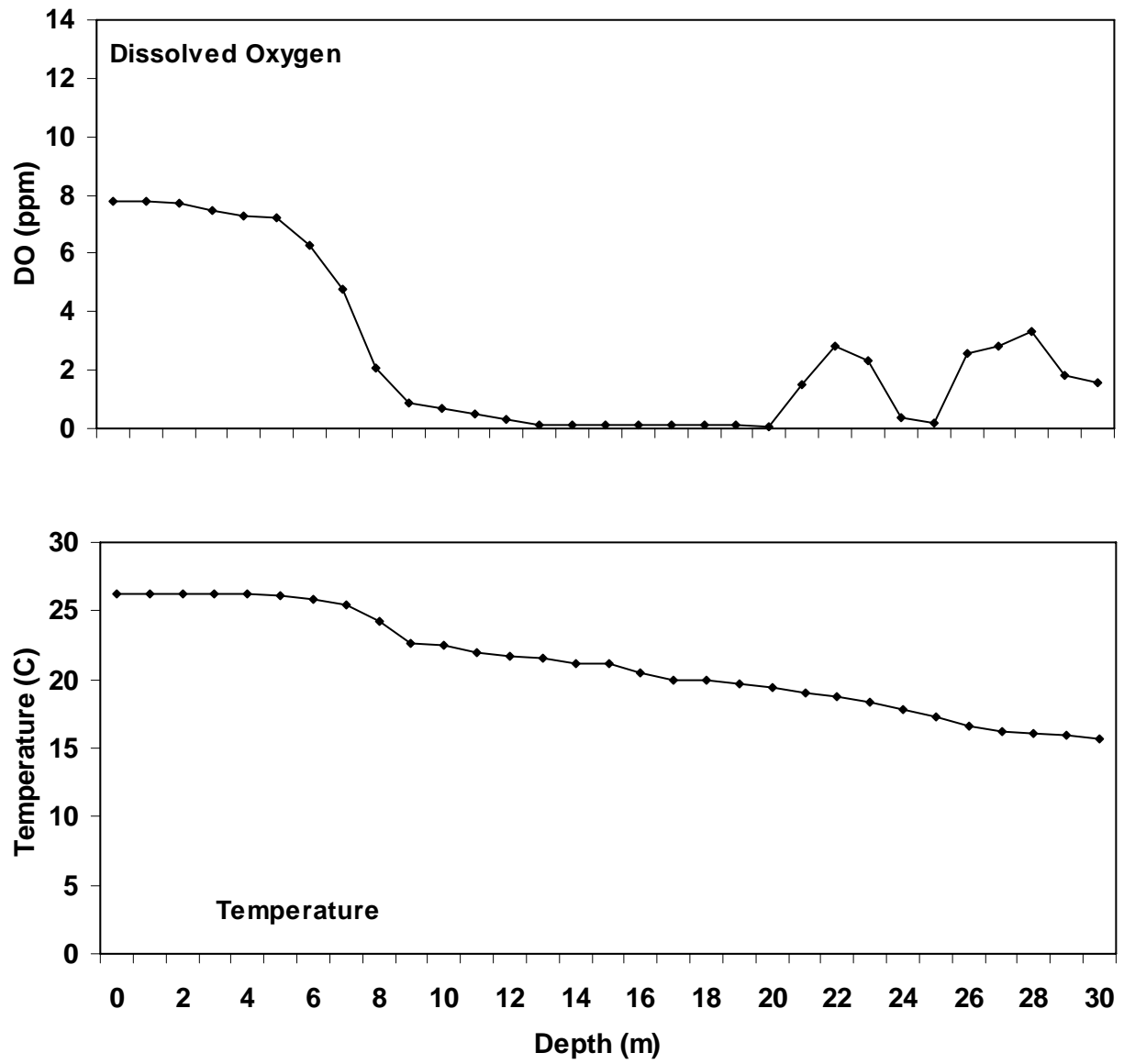


Figure A2. Douglas Reservoir water quality data at FBRM 40, July 2005.

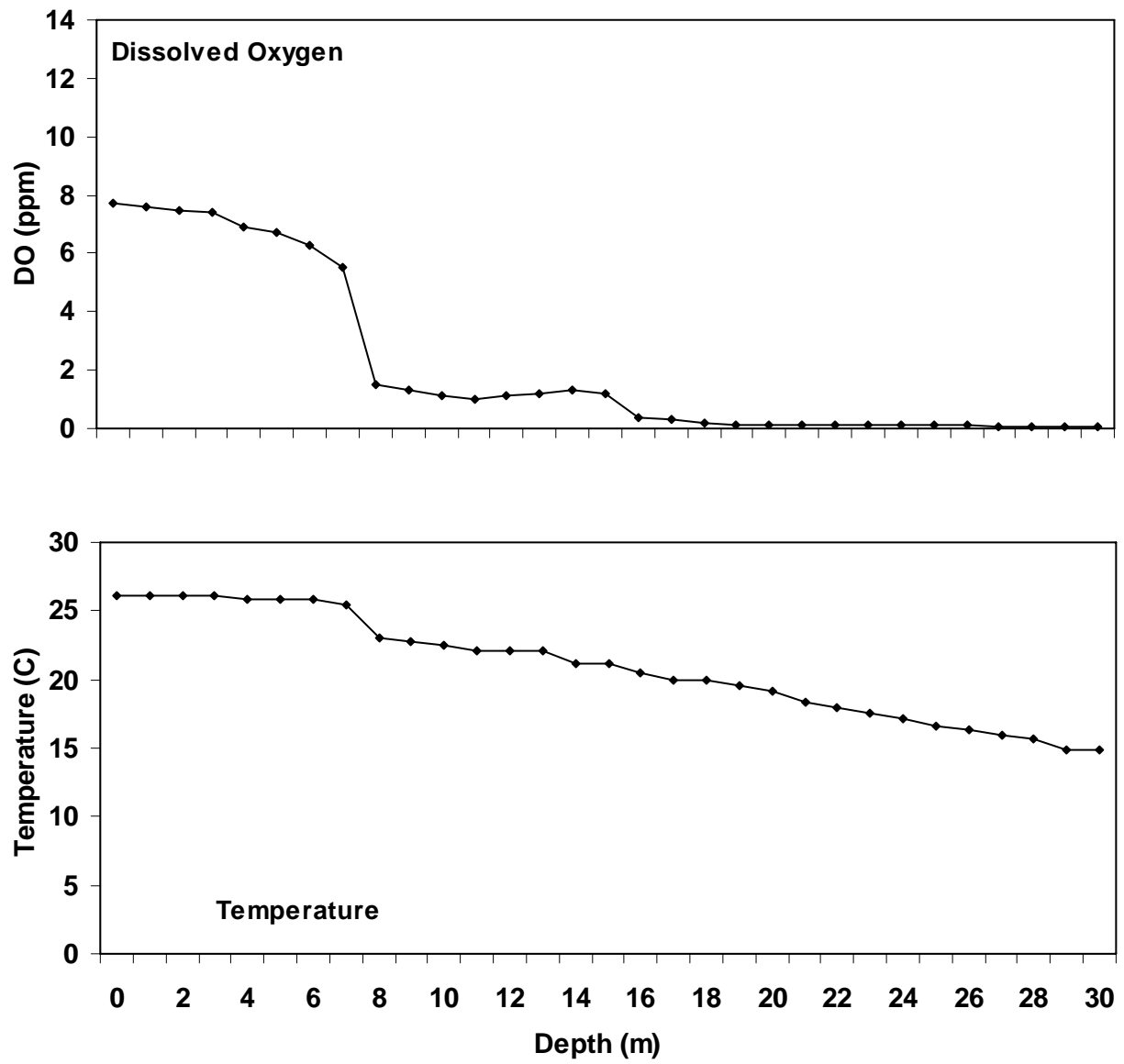


Figure A3. Douglas Reservoir water quality data at FBRM 50, July 2005.

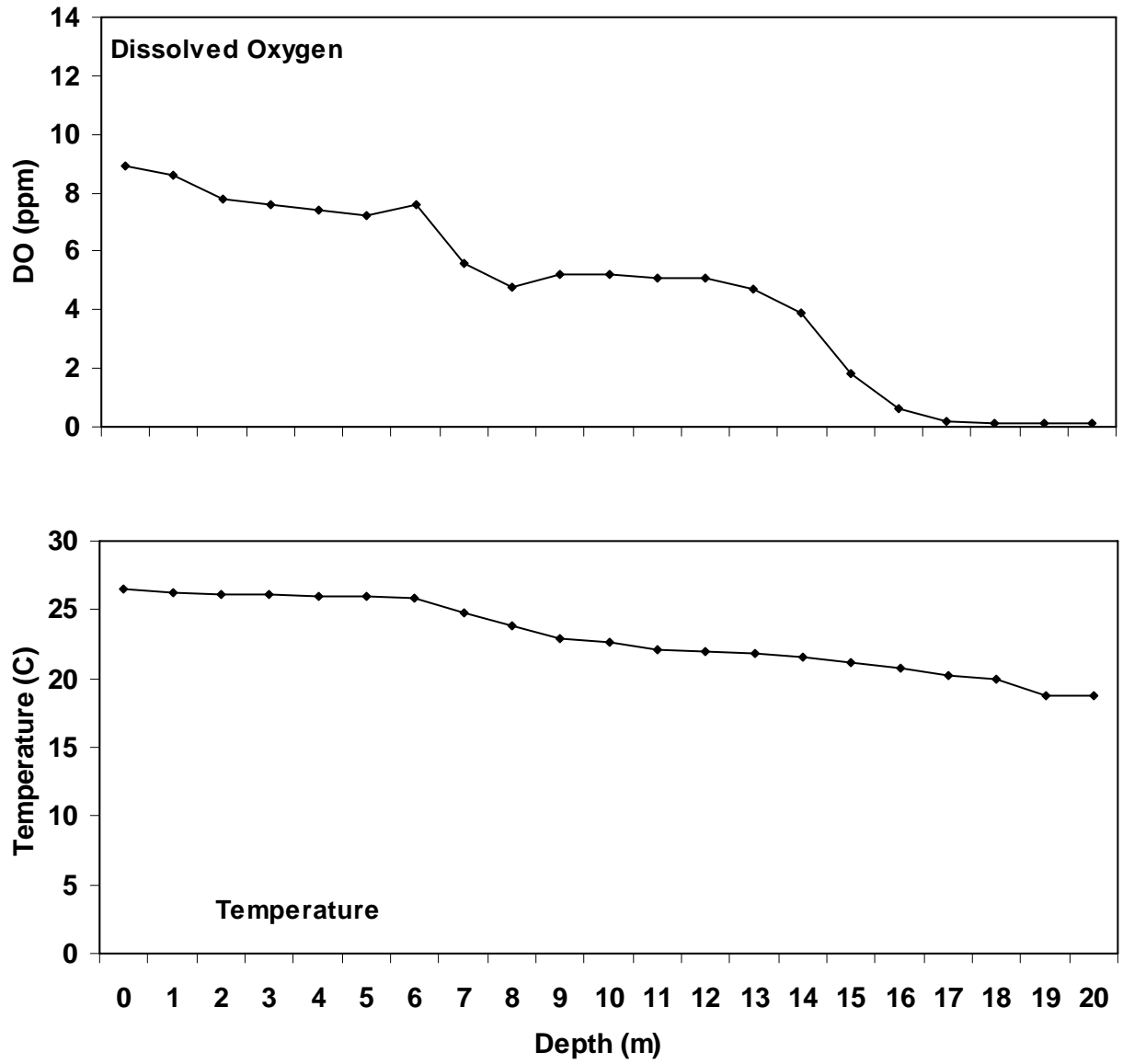


Figure A4. Douglas Reservoir water quality data at FBRM 60, July 2005.

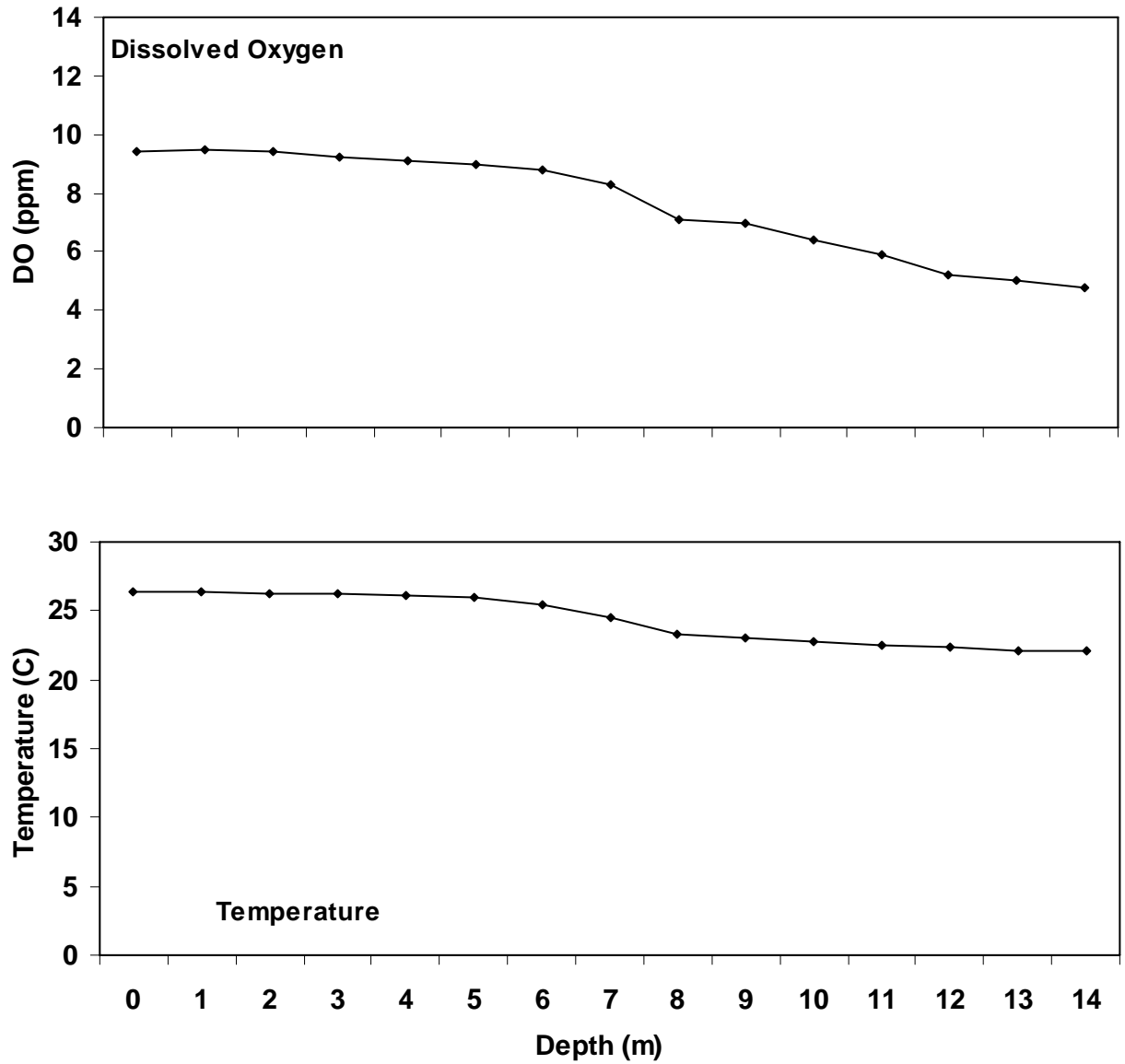


Figure A5. Douglas Reservoir water quality data at FBRM 34, August 2005.

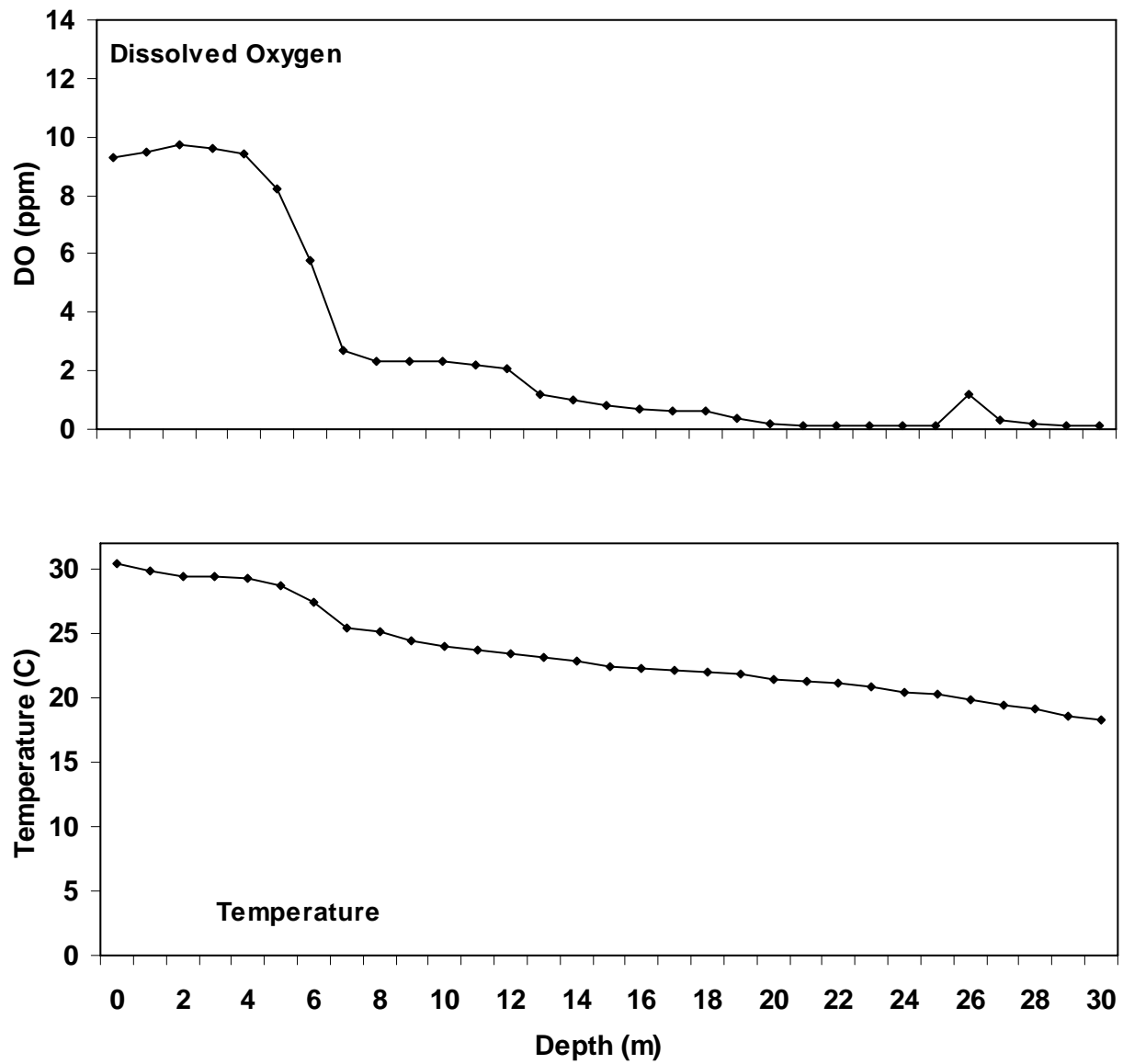


Figure A6. Douglas Reservoir water quality data at FBRM 40, August 2005.

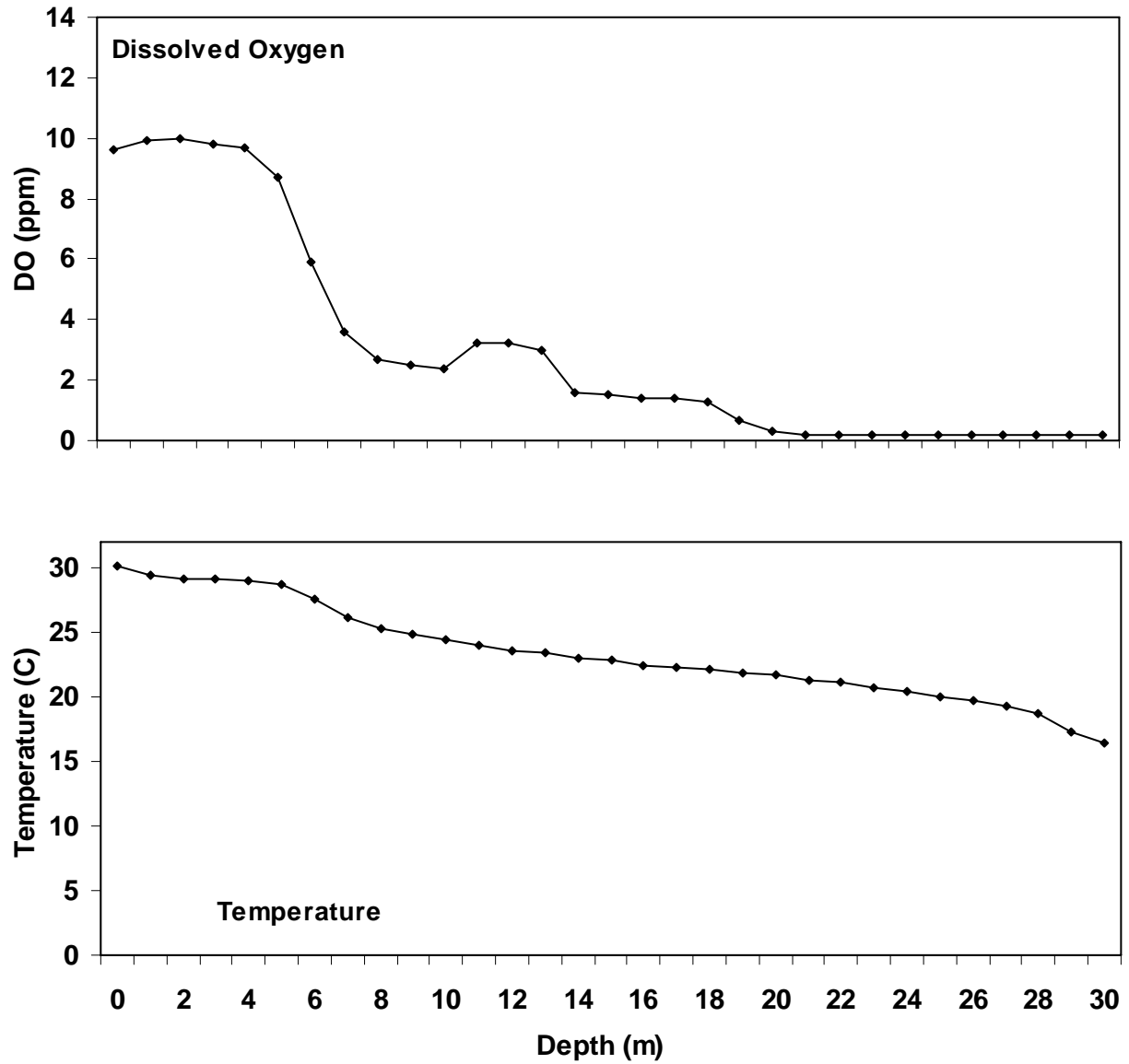


Figure A7. Douglas Reservoir water quality data at FBRM 50, August 2005.

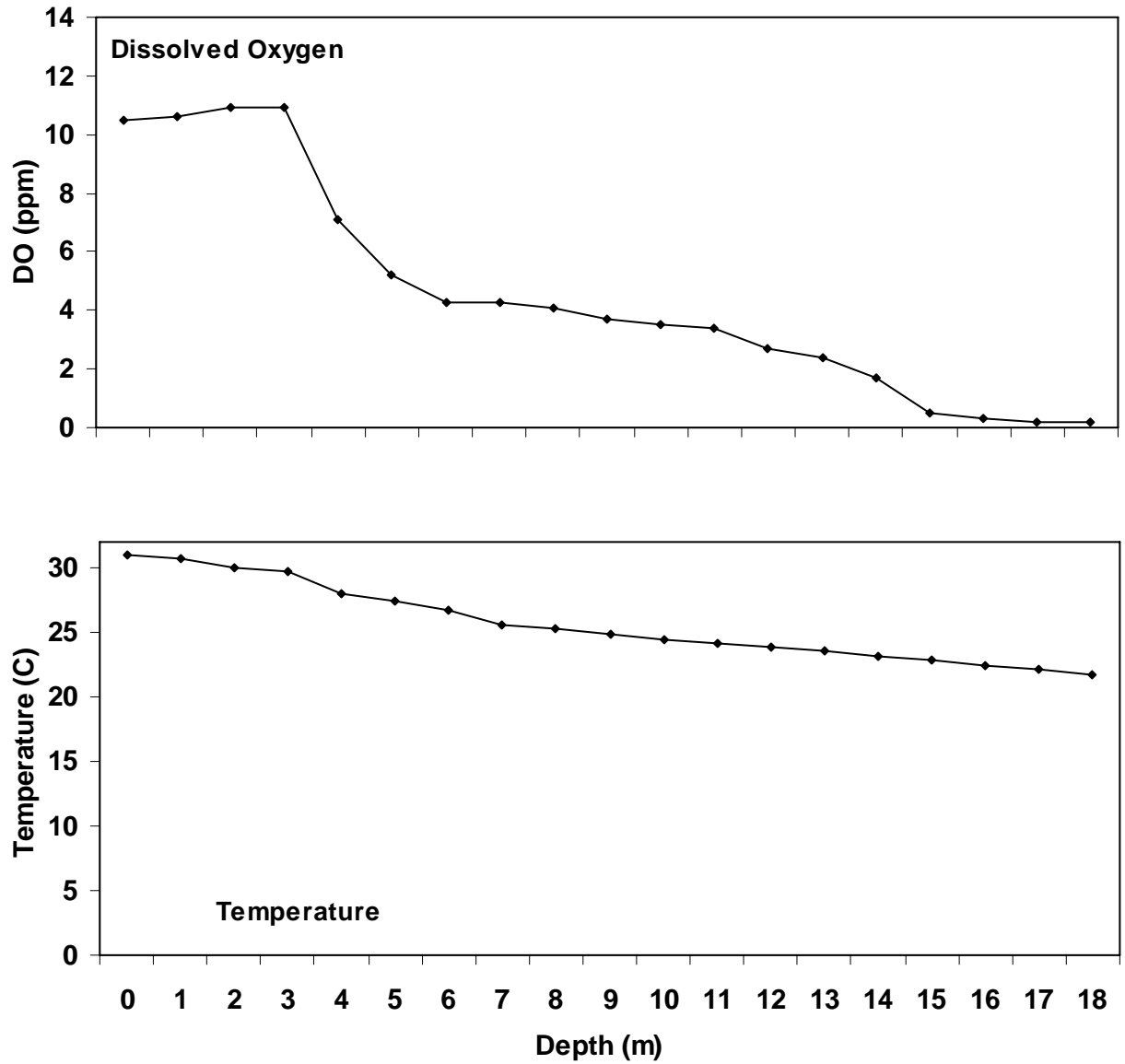


Figure A8. Douglas Reservoir water quality data at FBRM 60, August 2005.

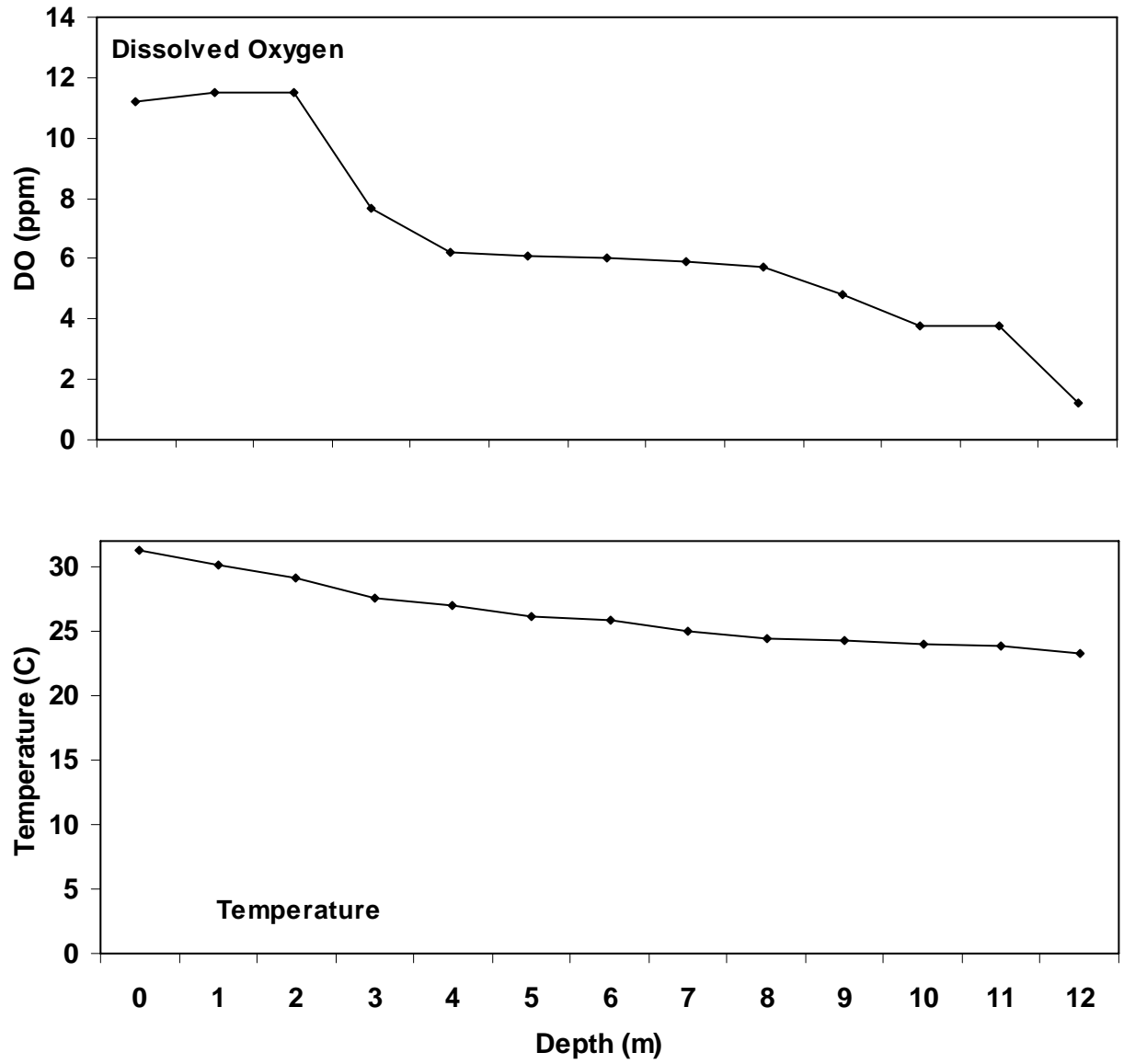


Figure A9. Douglas Reservoir water quality data at FBRM 34, September 2005.

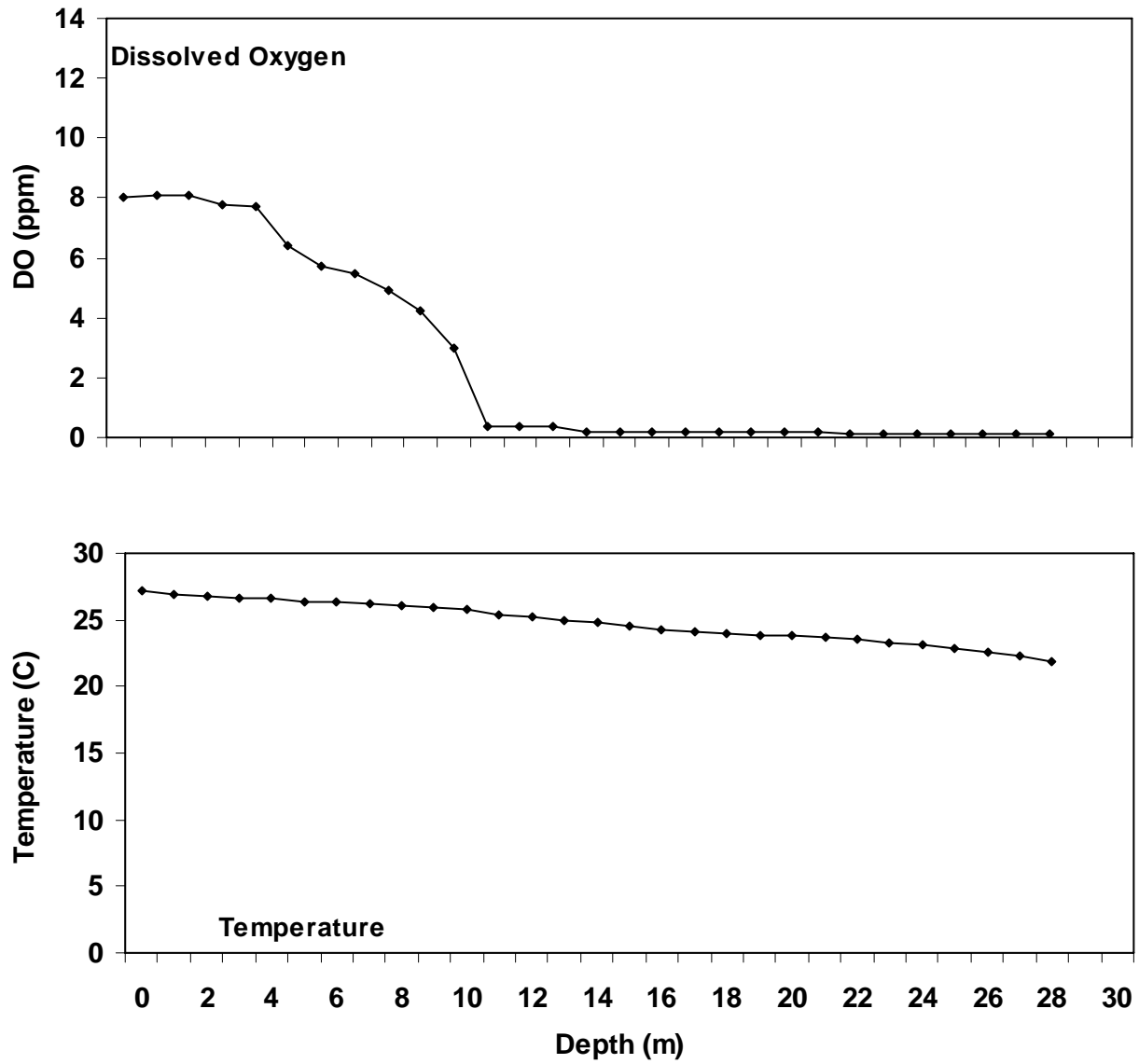


Figure A10. Douglas Reservoir water quality data at FBRM 40, September 2005.

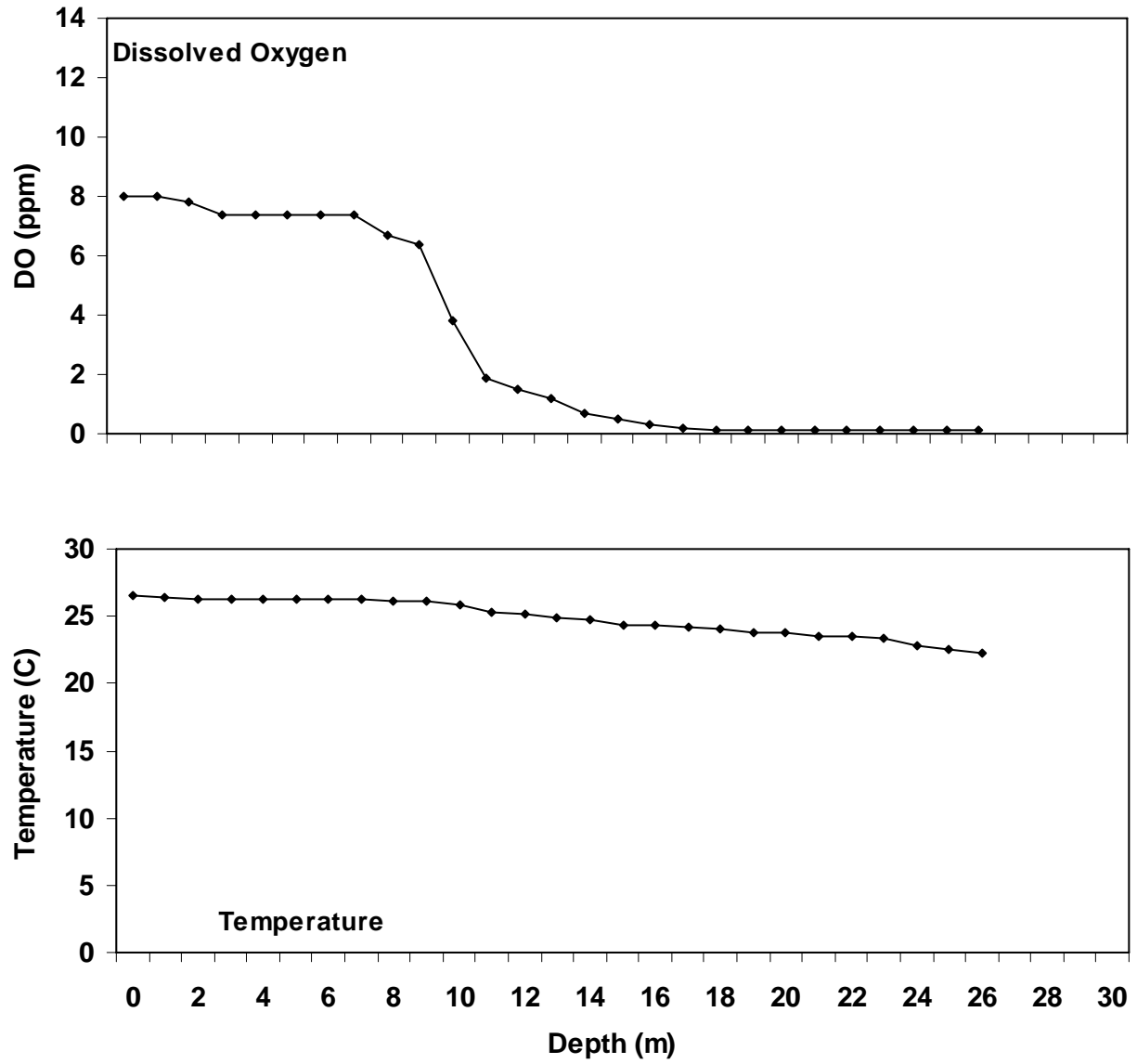
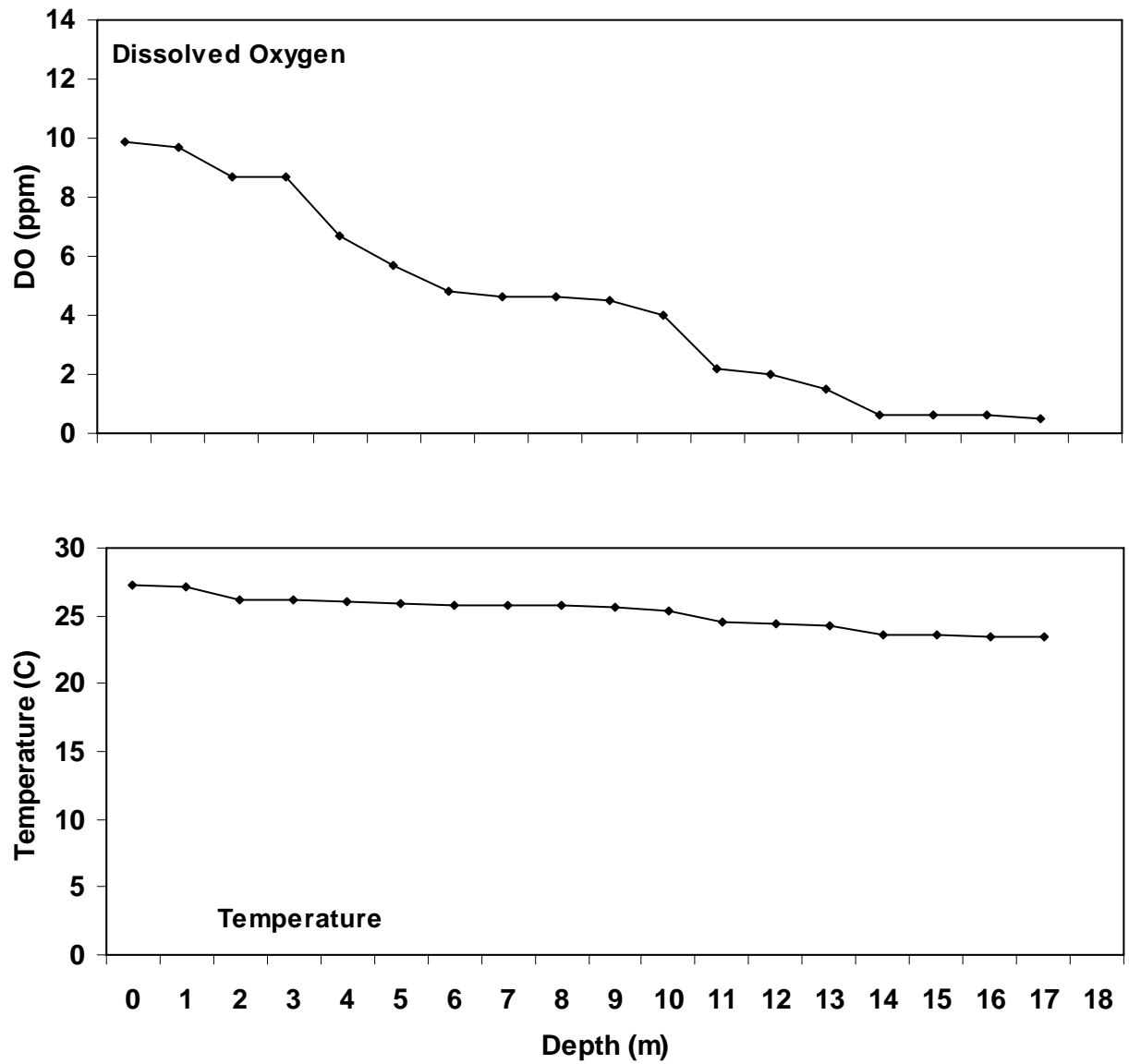


Figure A11. Douglas Reservoir water quality data at FBRM 50, September 2005.



Appendix B
Elevation Data

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

Elevation	Month	Day	Elevation	Month	Day	Elevation	Month	Day
957.91	January	1	957.14	February	24	983.70	April	19
957.50	January	2	957.12	February	25	984.12	April	20
956.44	January	3	957.06	February	26	984.61	April	21
955.52	January	4	956.99	February	27	985.13	April	22
954.69	January	5	957.13	February	28	985.64	April	23
953.99	January	6	956.71	March	1	986.17	April	24
953.18	January	7	956.17	March	2	986.20	April	25
953.75	January	8	955.70	March	3	986.25	April	26
954.36	January	9	955.08	March	4	986.15	April	27
953.27	January	10	955.52	March	5	986.17	April	28
953.01	January	11	955.94	March	6	986.48	April	29
952.70	January	12	956.11	March	7	987.51	April	30
951.72	January	13	956.75	March	8	988.47	May	1
952.28	January	14	957.03	March	9	989.12	May	2
954.22	January	15	957.52	March	10	989.59	May	3
955.12	January	16	957.93	March	11	989.83	May	4
955.42	January	17	958.91	March	12	989.99	May	5
955.27	January	18	959.79	March	13	990.05	May	6
955.17	January	19	959.83	March	14	990.48	May	7
954.89	January	20	960.23	March	15	990.77	May	8
954.76	January	21	959.73	March	16	991.05	May	9
954.84	January	22	959.31	March	17	991.48	May	10
954.16	January	23	959.52	March	18	991.91	May	11
952.95	January	24	960.27	March	19	991.91	May	12
952.33	January	25	960.93	March	20	991.84	May	13
952.48	January	26	961.57	March	21	992.27	May	14
952.64	January	27	962.25	March	22	992.65	May	15
952.44	January	28	963.14	March	23	993.01	May	16
951.69	January	29	964.26	March	24	993.20	May	17
951.51	January	30	965.32	March	25	993.17	May	18
951.56	January	31	966.23	March	26	992.62	May	19
951.61	February	1	967.06	March	27	993.46	May	20
951.89	February	2	968.01	March	28	994.23	May	21
952.21	February	3	969.68	March	29	994.80	May	22
952.72	February	4	971.16	March	30	994.97	May	23
953.59	February	5	972.03	March	31	994.59	May	24
954.27	February	6	972.81	April	1	994.33	May	25
954.13	February	7	974.19	April	2	993.86	May	26
954.18	February	8	975.87	April	3	994.01	May	27
954.40	February	9	977.19	April	4	994.17	May	28
954.11	February	10	978.01	April	5	994.36	May	29
953.77	February	11	978.47	April	6	994.21	May	30
953.90	February	12	979.05	April	7	993.97	May	31
954.14	February	13	979.44	April	8	993.99	June	1
954.05	February	14	979.83	April	9	994.12	June	2
954.53	February	15	980.19	April	10	994.15	June	3
954.48	February	16	980.18	April	11	994.11	June	4
954.27	February	17	980.25	April	12	993.90	June	5
954.02	February	18	980.68	April	13	994.04	June	6
954.03	February	19	981.46	April	14	993.76	June	7
954.00	February	20	982.16	April	15	993.88	June	8
954.56	February	21	982.76	April	16	993.94	June	9
955.88	February	22	983.20	April	17	993.88	June	10
956.80	February	23	983.51	April	18	993.90	June	11

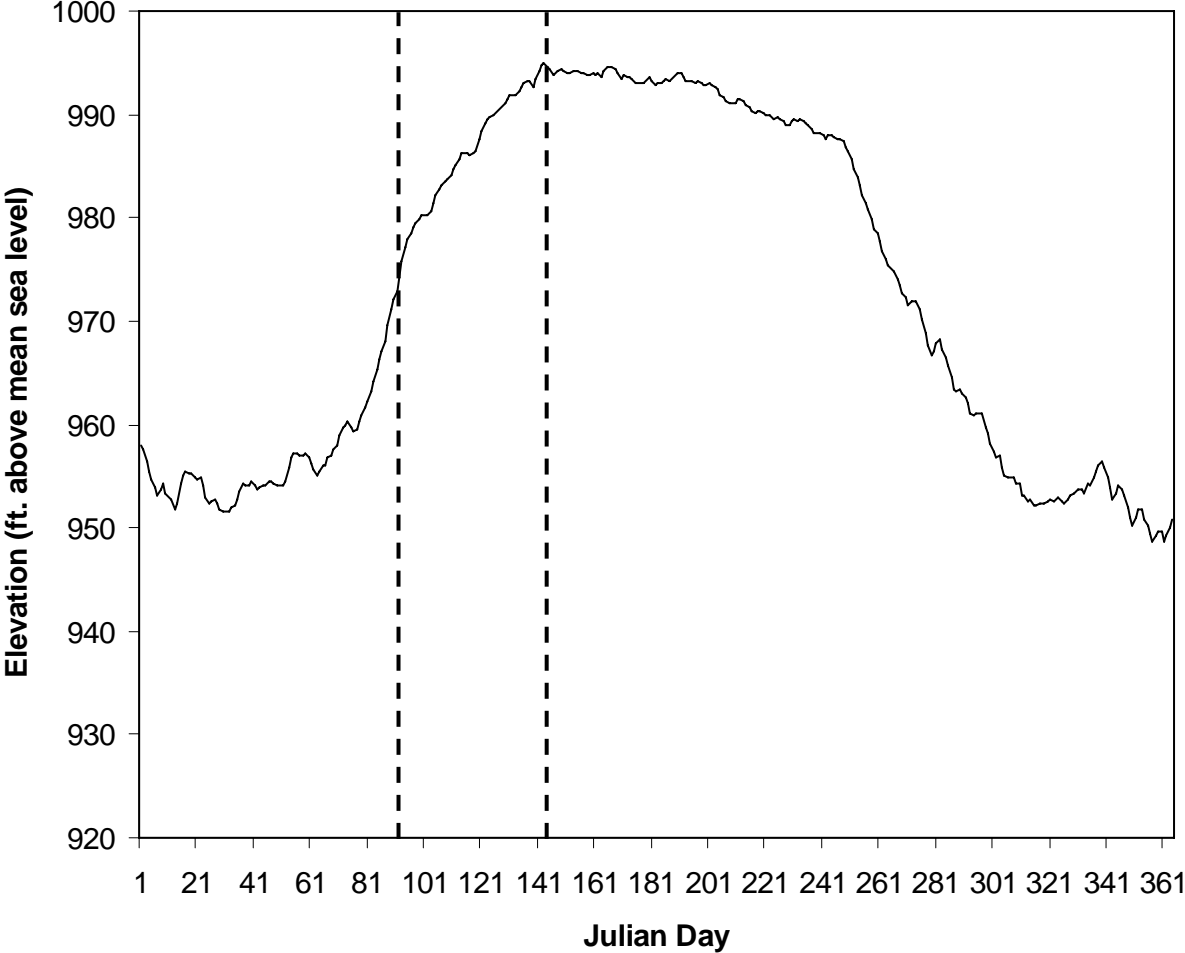
Table B1. Continued.

Elevation	Month	Day	Elevation	Month	Day	Elevation	Month	Day
994.16	June	12	990.15	August	5	971.60	September	28
994.56	June	13	990.27	August	6	971.84	September	29
994.62	June	14	990.39	August	7	971.89	September	30
994.62	June	15	990.12	August	8	971.89	October	1
994.36	June	16	990.00	August	9	971.22	October	2
993.90	June	17	989.91	August	10	970.09	October	3
993.33	June	18	989.75	August	11	968.90	October	4
993.71	June	19	989.51	August	12	967.68	October	5
993.68	June	20	989.73	August	13	966.71	October	6
993.63	June	21	989.53	August	14	967.09	October	7
993.50	June	22	989.28	August	15	967.78	October	8
993.02	June	23	988.93	August	16	968.16	October	9
993.00	June	24	988.90	August	17	967.32	October	10
992.98	June	25	989.25	August	18	966.40	October	11
992.93	June	26	989.62	August	19	965.64	October	12
993.42	June	27	989.41	August	20	964.52	October	13
993.58	June	28	989.63	August	21	963.44	October	14
993.29	June	29	989.35	August	22	963.28	October	15
992.81	June	30	989.11	August	23	963.35	October	16
993.02	July	1	988.88	August	24	963.09	October	17
993.07	July	2	988.61	August	25	962.61	October	18
993.24	July	3	988.26	August	26	961.94	October	19
993.35	July	4	988.19	August	27	961.16	October	20
993.26	July	5	988.20	August	28	960.87	October	21
993.38	July	6	988.05	August	29	961.02	October	22
993.85	July	7	987.68	August	30	961.06	October	23
994.08	July	8	987.93	August	31	961.00	October	24
994.00	July	9	987.98	September	1	959.65	October	25
993.59	July	10	987.74	September	2	959.22	October	26
993.23	July	11	987.54	September	3	958.24	October	27
993.24	July	12	987.53	September	4	957.32	October	28
993.14	July	13	987.36	September	5	956.90	October	29
992.95	July	14	986.89	September	6	956.94	October	30
993.15	July	15	986.36	September	7	955.88	October	31
992.94	July	16	985.65	September	8	955.10	November	1
992.90	July	17	984.74	September	9	954.85	November	2
992.86	July	18	983.99	September	10	954.84	November	3
992.95	July	19	983.18	September	11	954.84	November	4
992.90	July	20	982.26	September	12	954.35	November	5
992.66	July	21	981.33	September	13	954.37	November	6
992.52	July	22	980.80	September	14	953.18	November	7
991.84	July	23	979.80	September	15	953.09	November	8
991.66	July	24	978.89	September	16	952.48	November	9
991.30	July	25	978.49	September	17	952.67	November	10
991.10	July	26	977.81	September	18	952.22	November	11
991.14	July	27	976.80	September	19	952.25	November	12
991.14	July	28	976.05	September	20	952.29	November	13
991.48	July	29	975.42	September	21	952.34	November	14
991.55	July	30	975.07	September	22	952.29	November	15
991.24	July	31	974.83	September	23	952.47	November	16
990.90	August	1	974.07	September	24	952.78	November	17
990.64	August	2	973.50	September	25	952.60	November	18
990.34	August	3	972.73	September	26	952.73	November	19
990.15	August	4	972.35	September	27	952.96	November	20

Table B1. Continued.

Elevation	Month	Day
952.48	November	21
952.38	November	22
952.65	November	23
953.10	November	24
953.27	November	25
953.48	November	26
953.61	November	27
953.75	November	28
953.38	November	29
954.27	November	30
954.01	December	1
954.79	December	2
955.52	December	3
956.12	December	4
956.45	December	5
955.82	December	6
954.90	December	7
953.89	December	8
952.65	December	9
953.37	December	10
954.01	December	11
953.64	December	12
953.21	December	13
952.04	December	14
951.00	December	15
950.15	December	16
950.96	December	17
951.78	December	18
951.80	December	19
950.82	December	20
950.30	December	21
949.41	December	22
948.67	December	23
949.19	December	24
949.59	December	25
949.57	December	26
948.66	December	27
949.29	December	28
950.05	December	29
950.86	December	30
951.57	December	31

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



Appendix C
Angler Creel Survey

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2005

LAKE=DOUGLAS

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	34681	25.8	1.1	7612	0.2	6.2
02 FEBRUARY	22634	26.5	0.7	5257	0.2	4.1
03 MARCH	29712	38.5	1.0	6962	0.2	5.3
04 APRIL	54491	17.1	1.8	9797	0.3	9.8
05 MAY	92629	12.0	3.0	15473	0.5	16.6
06 JUNE	70317	13.4	2.3	13717	0.4	12.6
07 JULY	39978	22.6	1.3	7466	0.2	7.2
08 AUGUST	49760	19.4	1.6	9864	0.3	8.9
09 SEPTEMBER	53755	22.1	1.8	10735	0.4	9.6
10 OCTOBER	43692	14.1	1.4	8565	0.3	7.8
11 NOVEMBER	41001	15.5	1.3	8263	0.3	7.3
12 DECEMBER	26098	27.6	0.9	6042	0.2	4.7
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TOTAL	558748			109753		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2005

LAKE=DOUGLAS

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	58264	30.8	1.68	16.4	17687	38.5	0.51	27.5
02 FEBRUARY	18334	36.3	0.81	24.0	1811	50.3	0.08	41.6
03 MARCH	29415	44.0	0.99	19.8	6834	48.5	0.23	26.9
04 APRIL	61575	24.5	1.13	17.3	14168	32.0	0.26	26.7
05 MAY	168585	14.8	1.82	8.6	64840	17.0	0.70	12.1
06 JUNE	106882	17.5	1.52	11.3	34455	23.7	0.49	19.6
07 JULY	49173	25.3	1.23	11.2	14792	31.7	0.37	21.7
08 AUGUST	87578	25.5	1.76	16.2	20899	29.4	0.42	21.7
09 SEPTEMBER	110198	23.4	2.05	7.5	31178	26.7	0.58	14.8
10 OCTOBER	76898	17.8	1.76	10.8	25341	21.6	0.58	16.1
11 NOVEMBER	79132	17.5	1.93	8.0	29111	21.6	0.71	14.9
12 DECEMBER	47498	31.5	1.82	14.6	20095	38.0	0.77	25.3
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TOTAL	893532				281211			

SUMMARY OF SPECIES CATCH STATISTICS - 2005

LAKE=DOUGLAS

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
CARP	113	1777.8	0.0	0	0	.	0.0	0	100.0	.	0
BLACK BULLHEAD	1773	323.5	0.2	1773	1773	323.5	0.6	1773	0.0	2.05	31
YELLOW BULLHEAD	681	896.4	0.1	681	385	926.0	0.1	385	43.5	2.85	10
CHANNEL CATFISH	46829	22.5	5.2	34184	29947	24.9	10.6	22817	36.1	1.75	504
FLATHEAD CATFISH	1817	286.2	0.2	1752	1683	295.7	0.6	1618	7.4	2.66	26
ANY TEMPERATE BASS	1749	651.7	0.2	0	269	1110.8	0.1	0	84.6	0.76	0
WHITE BASS	61692	22.6	6.9	42105	14764	34.6	5.3	12705	76.1	0.81	294
SMALLMOUTH BASS	10952	80.6	1.2	0	84	681.5	0.0	0	99.2	2.00	1
LARGEMOUTH BASS	222535	8.1	24.9	186889	11556	22.1	4.1	4768	94.8	1.33	205
WHITE CRAPPIE	300161	7.7	33.6	287849	109623	11.6	39.0	106735	63.5	0.68	2835
BLACK CRAPPIE	21406	53.9	2.4	20694	10221	60.6	3.6	9929	52.3	0.74	245
BLACKNOSE CRAPPIE	2172	363.9	0.2	2172	1193	368.0	0.4	1193	45.1	0.69	31
SAUGER	15487	61.8	1.7	2854	2687	88.7	1.0	477	82.6	0.92	62
WALLEYE	17437	71.8	1.9	13051	2490	113.7	0.9	1311	85.7	1.36	57
FRESHWATER DRUM	10117	92.7	1.1	1089	4021	114.5	1.4	766	60.3	1.80	63

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

LAKE=DOUGLAS

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	46630	11.6	8792	8.3	1.05	15.4	0.73	15.6	96
WHITE BASS	16945	17.8	3218	3.0	2.40	20.2	0.82	37.2	37
ANY SUNFISH	26311	14.7	4784	4.7	4.65	14.3	2.66	14.7	53
ANY BLACK BASS	330	105.8	77	0.1	0.58		0.00		1
LARGEMOUTH BASS	188941	6.8	36223	33.8	0.95	8.9	0.02	89.8	497
ANY CRAPPIE	231877	7.2	47266	41.5	1.81	11.4	0.76	15.0	625
SAUGER	11140	25.7	2355	2.0	0.36	31.9	0.07	78.7	26
WALLEYE	9499	23.1	1861	1.7	1.93	71.8	0.25	33.1	25
ANY SPECIES	27075	13.8	5174	4.8	1.48	23.6	0.81	26.2	44
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TOTAL	558748		109750						

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

LAKE=DOUGLAS

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH	BLACK BULLHEAD	0.05	0.05
	YELLOW BULLHEAD	0.02	0.01
	CHANNEL CATFISH	0.93	0.63
	FLATHEAD CATFISH	0.05	0.04
ANY SUNFISH	ANY SUNFISH	0.00	0.00
ANY BLACK BASS	SMALLMOUTH BASS	0.00	0.00
	LARGEMOUTH BASS	0.99	0.03
ANY CRAPPIE	ANY CRAPPIE	0.00	0.00
	WHITE CRAPPIE	1.68	0.69
	BLACK CRAPPIE	0.12	0.06
	BLACKNOSE CRAPPIE	0.01	0.01

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=DOUGLAS

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	0.79	15
02 FEBRUARY	13	0.55	2	0.53	15
03 MARCH	12	0.64	2	0.62	14
04 APRIL	29	0.56	8	0.76	35
05 MAY	28	1.16	23	1.05	60
06 JUNE	20	0.85	10	0.93	55
07 JULY	34	0.72	6	0.79	36
08 AUGUST	10	1.32	4	0.98	56
09 SEPTEMBER	16	1.32	7	1.33	41
10 OCTOBER	27	1.24	10	0.96	43
11 NOVEMBER	32	0.80	8	1.00	25
12 DECEMBER	40	1.09	5	1.31	16

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

LAKE=DOUGLAS

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	25100	40960	66060	93
WHITE BASS	19830	30240	50080	37
ANY SUNFISH	5970	25780	31760	53
ANY BLACK BASS	960	770	1730	1
LARGEMOUTH BASS	697960	655560	1353530	488
ANY CRAPPIE	171420	351550	522970	607
SAUGER	13150	22000	35150	26
WALLEYE	11110	18200	29320	25
ANY SPECIES	3510	24920	28100	39
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TOTAL	949010	1169980	2118700	1369

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2005

LAKE=DOUGLAS

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
KY	160	5.5
TN	2626	90.9
OTHERS	103	3.6

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
COCKE	544	20.8
GREENE	198	7.6
HAMBLEN	233	8.9
JEFFERSON	643	24.5
KNOX	372	14.2
SEVIER	315	12.0
SULLIVAN	136	5.2
OTHERS IN TN	179	6.8

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	1972	68.4
B) 26-100	819	28.4
C) 101-250	80	2.8
D) > 250	10	0.3

DISTRIBUTION OF REASONS WHY INTERVIEWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	1395	99.5
B) VACATION	7	0.5

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	1341	95.6
B) 2-5	62	4.4