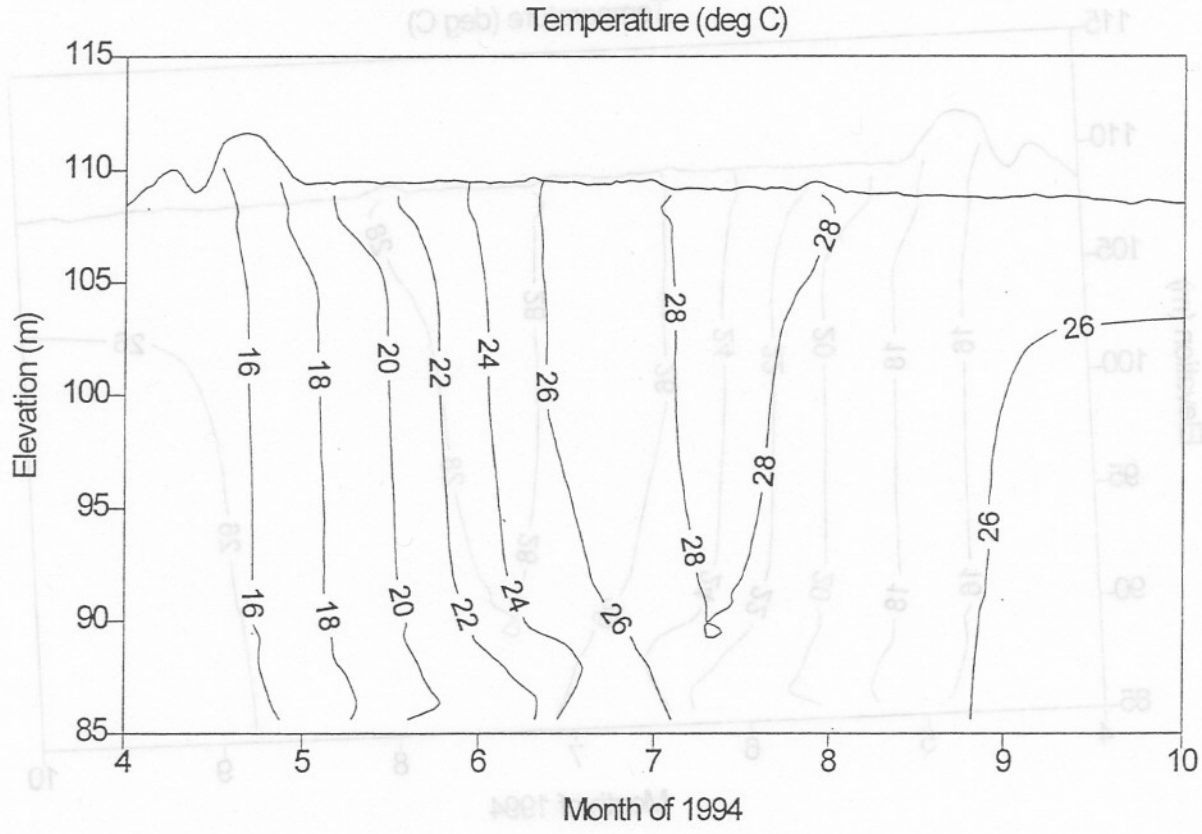
Section 2

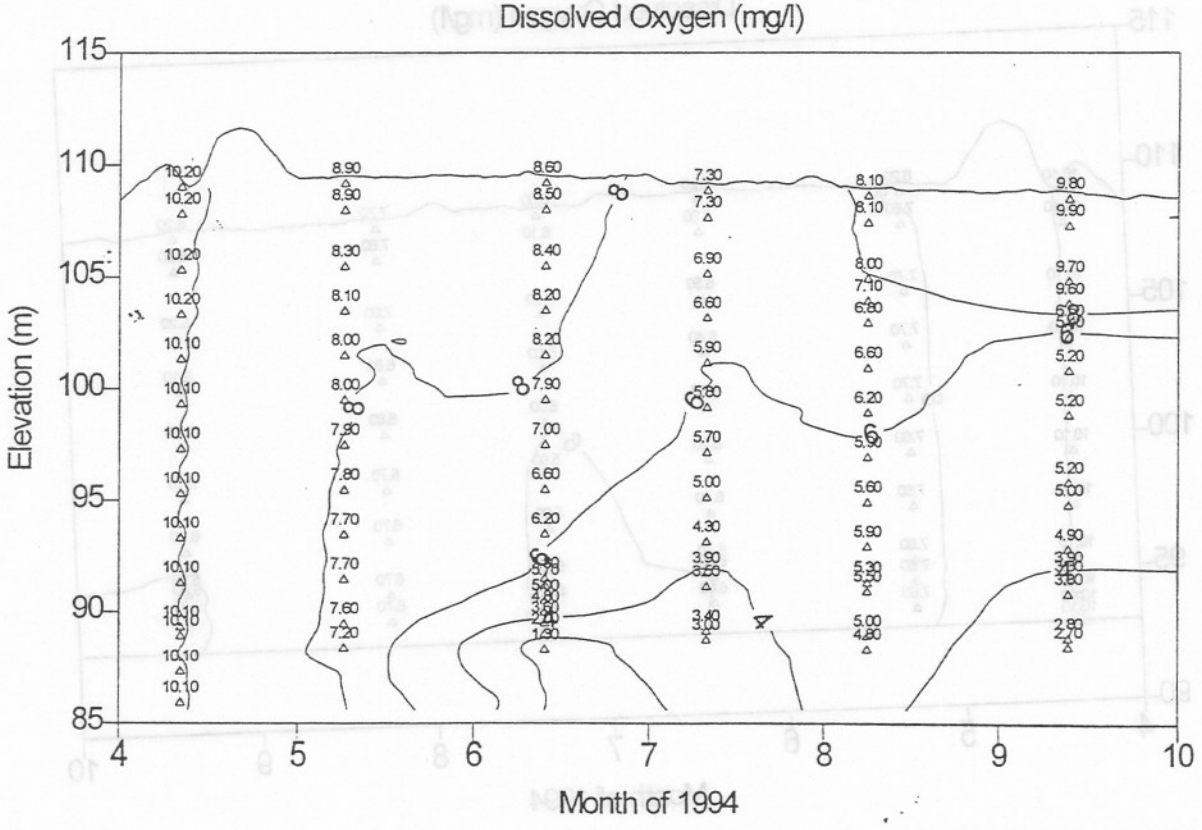
Dissolved Oxygen and Chlorophyll

Appendix A.

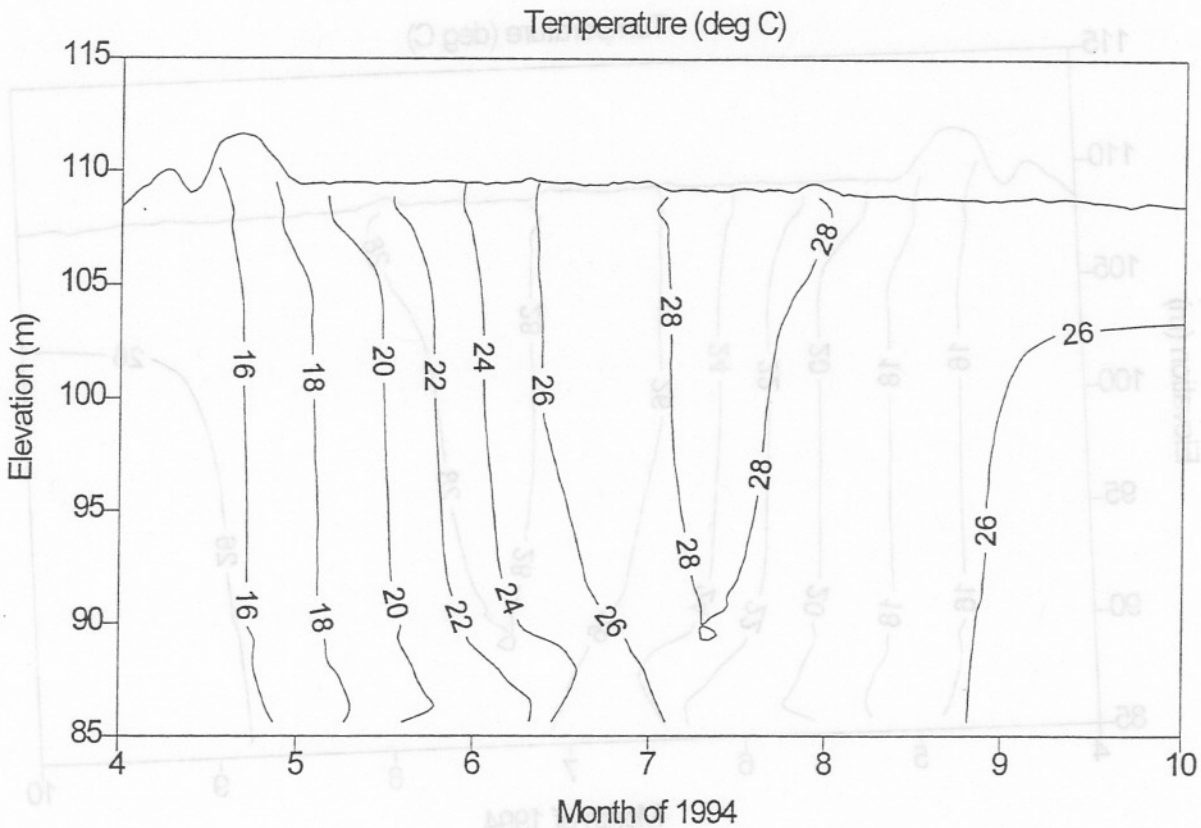
Temperature and Dissolved Oxygen Isopleths for Each Sample Location Throughout the 1994 Monitoring Period

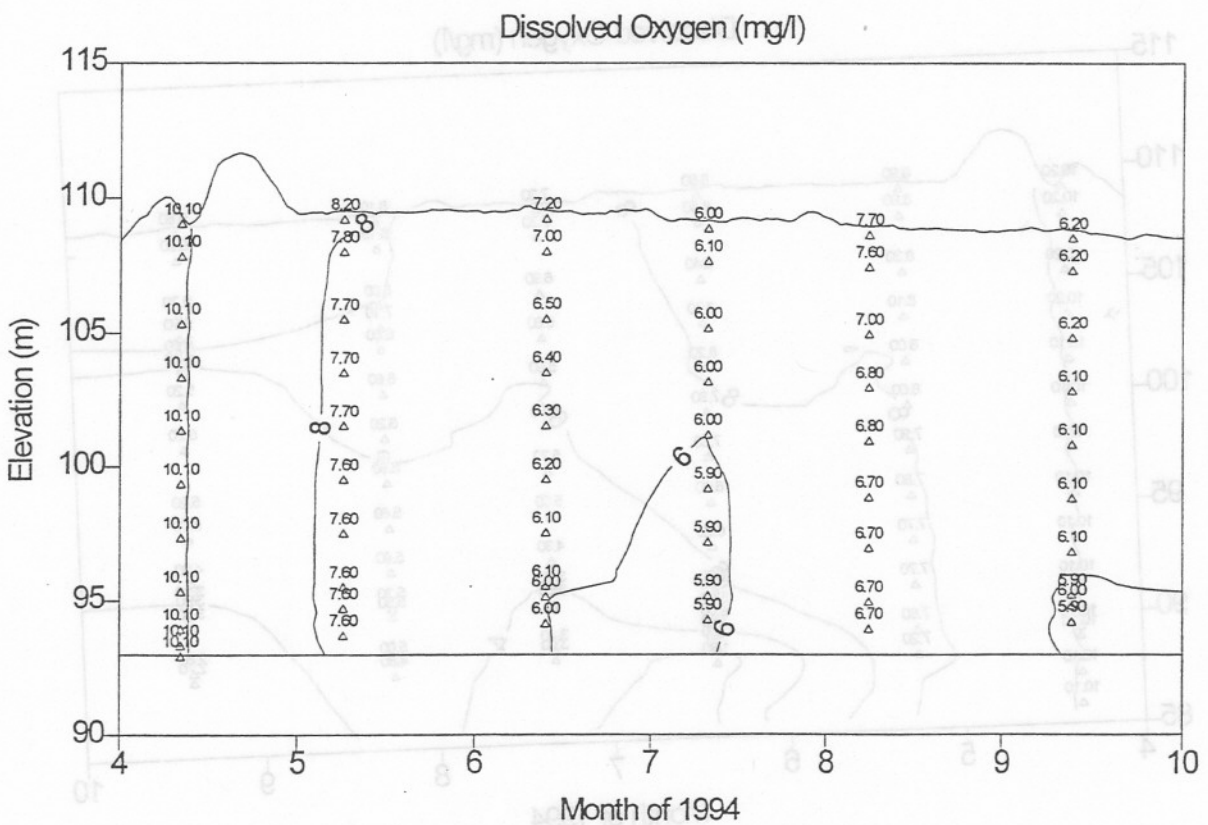
Kentucky Reservoir - TRM 23.0



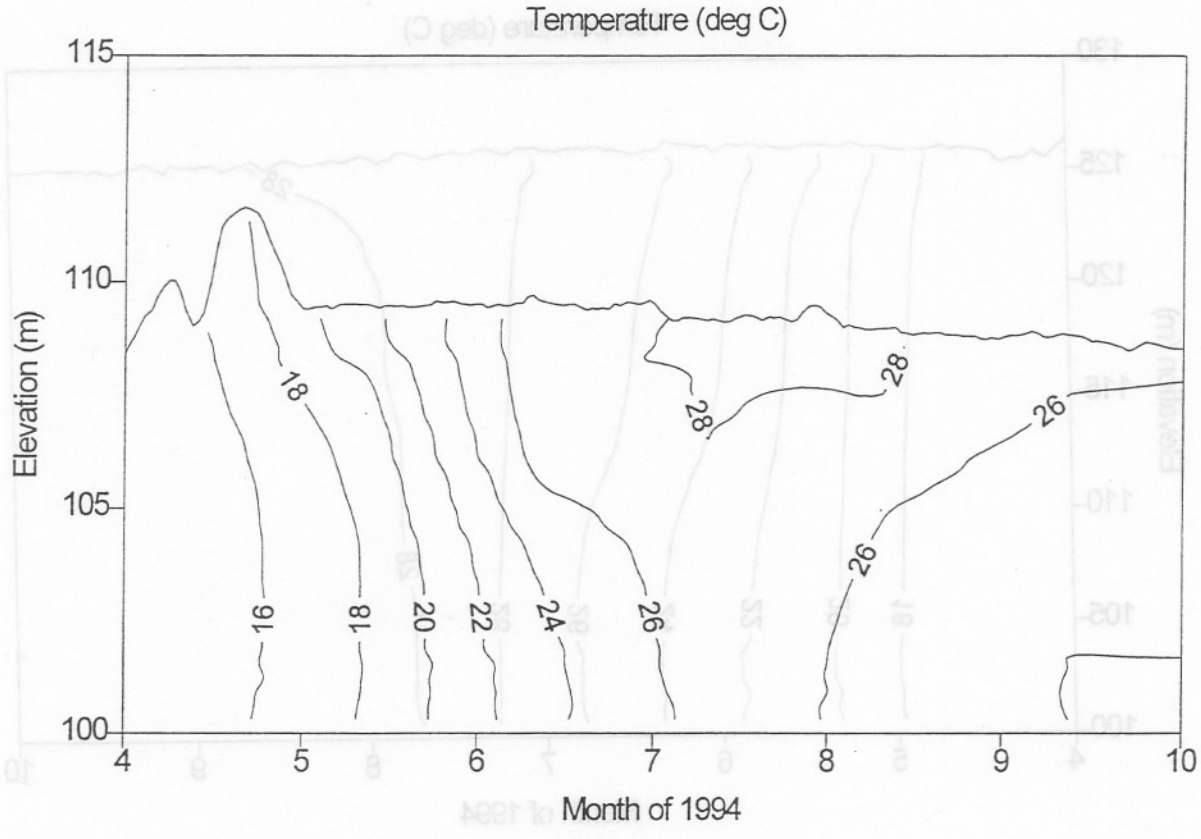


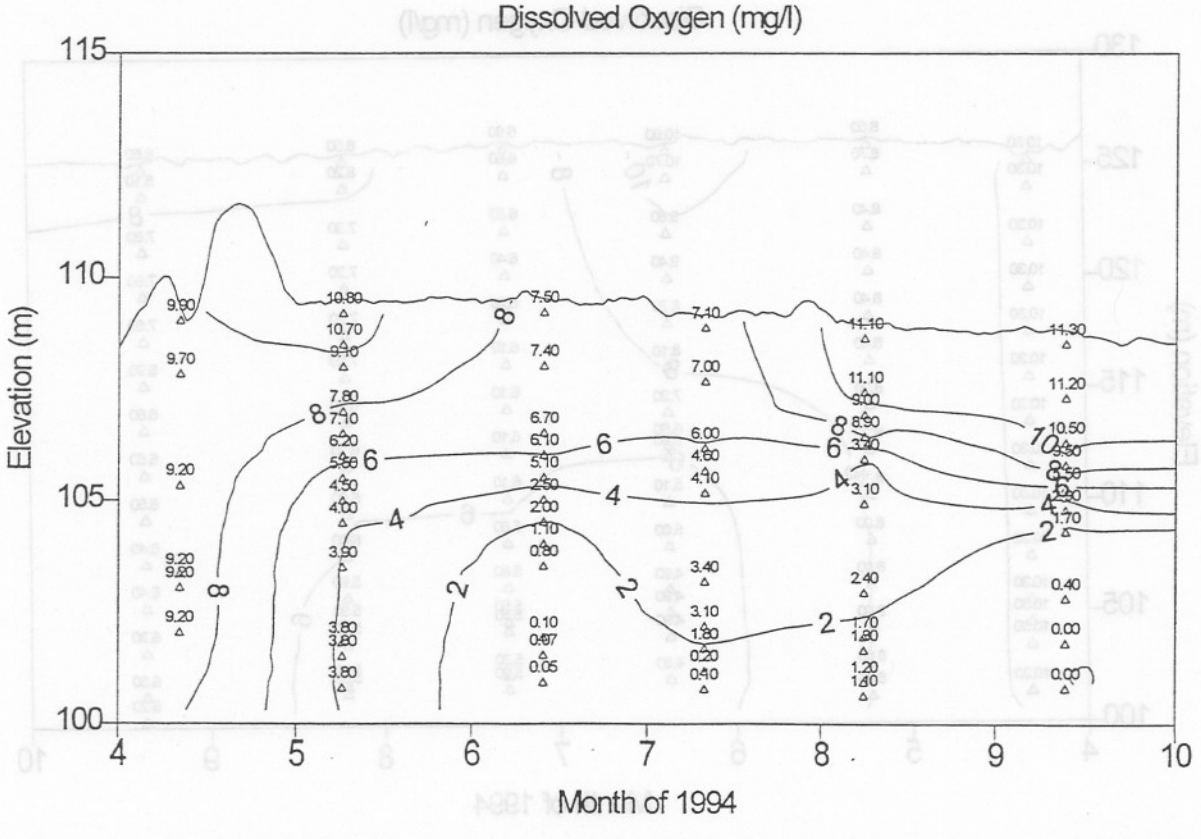
Kentucky Reservoir - TRM 85.0



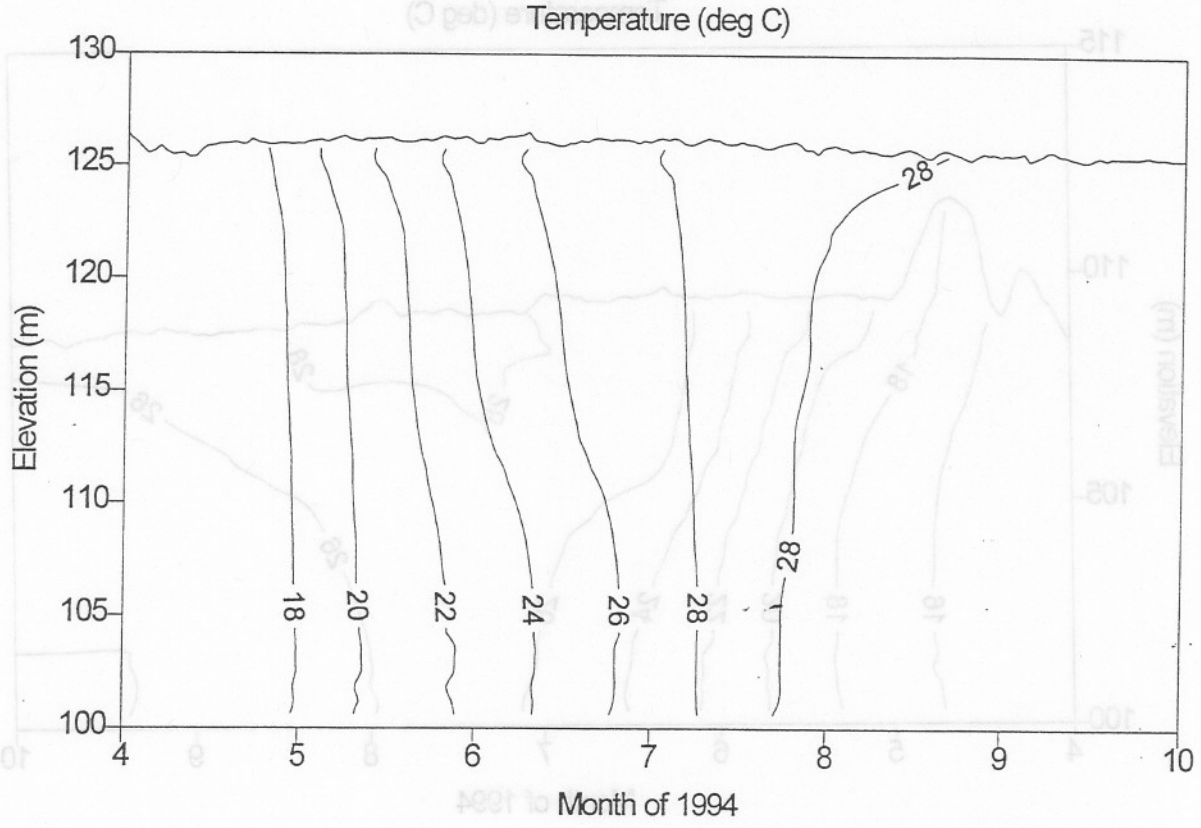


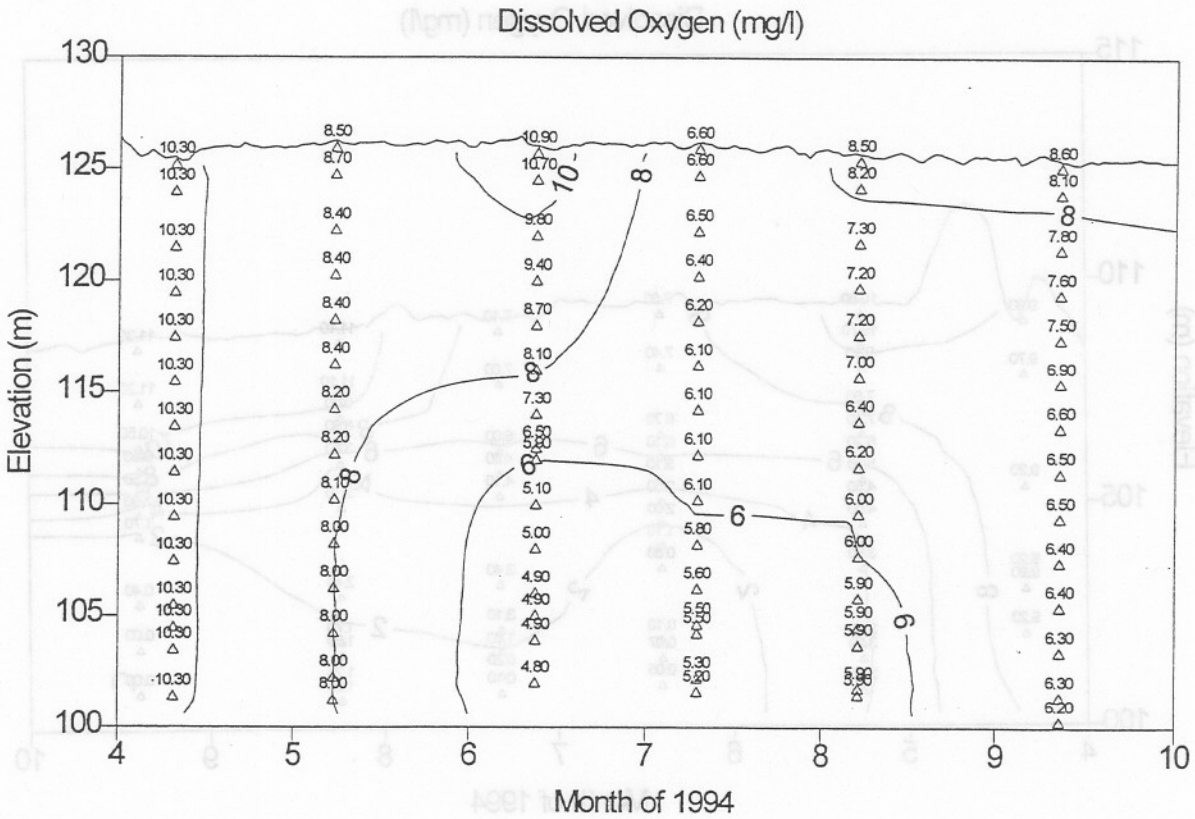
Kentucky Reservoir - Big Sandy River Mile 7.4



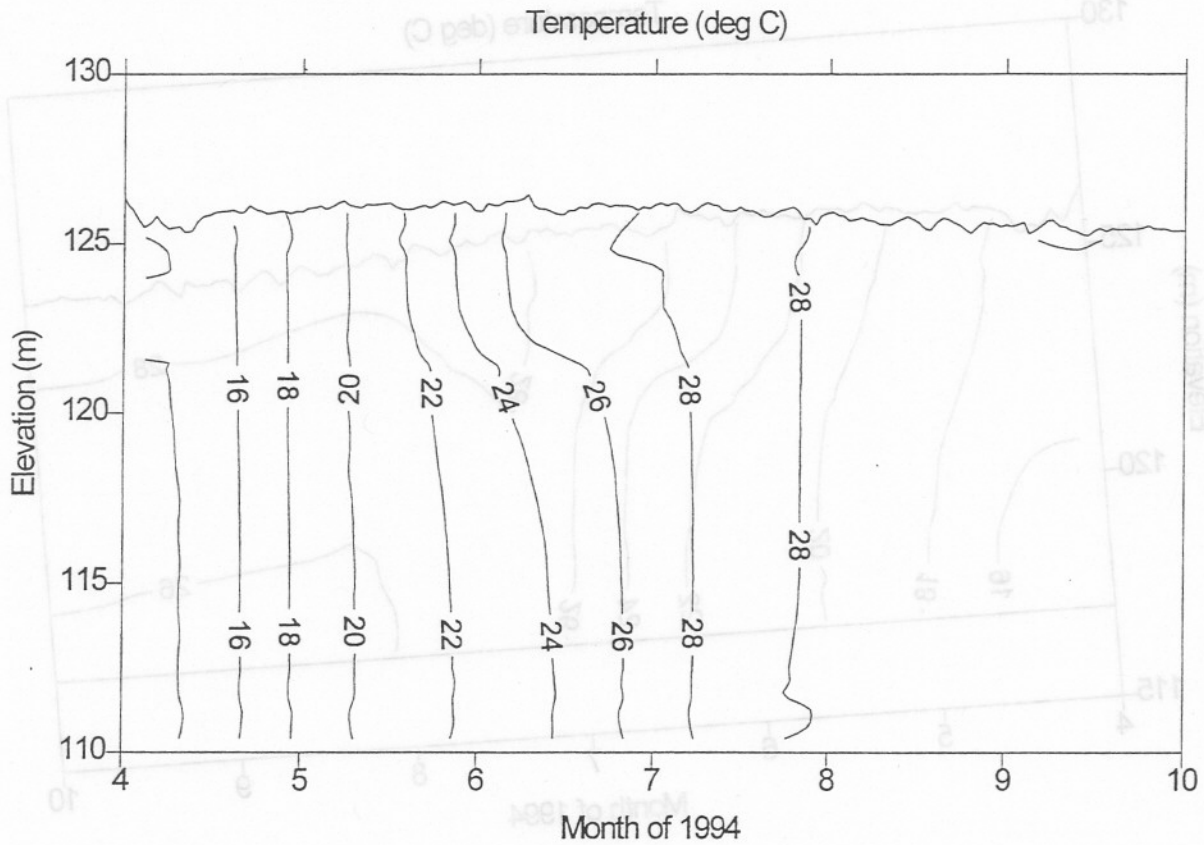


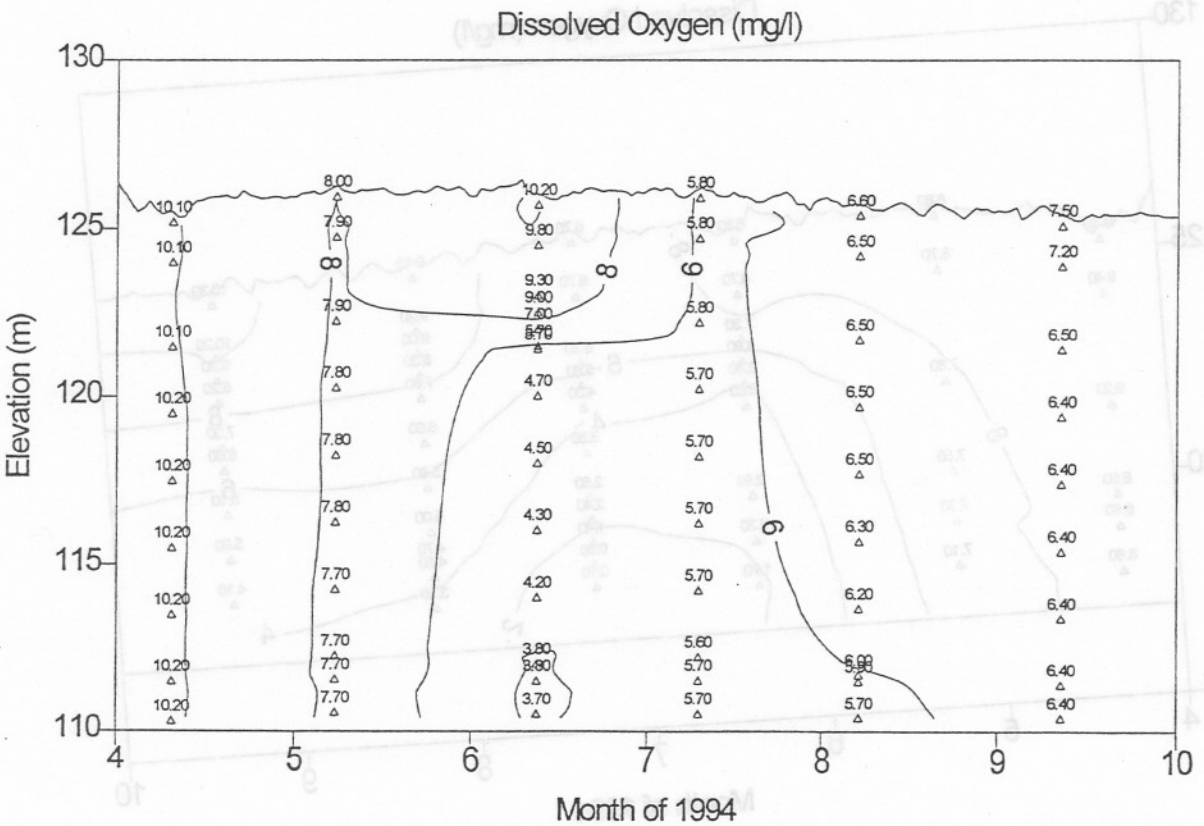
Pickwick Reservoir - TRM 207.3



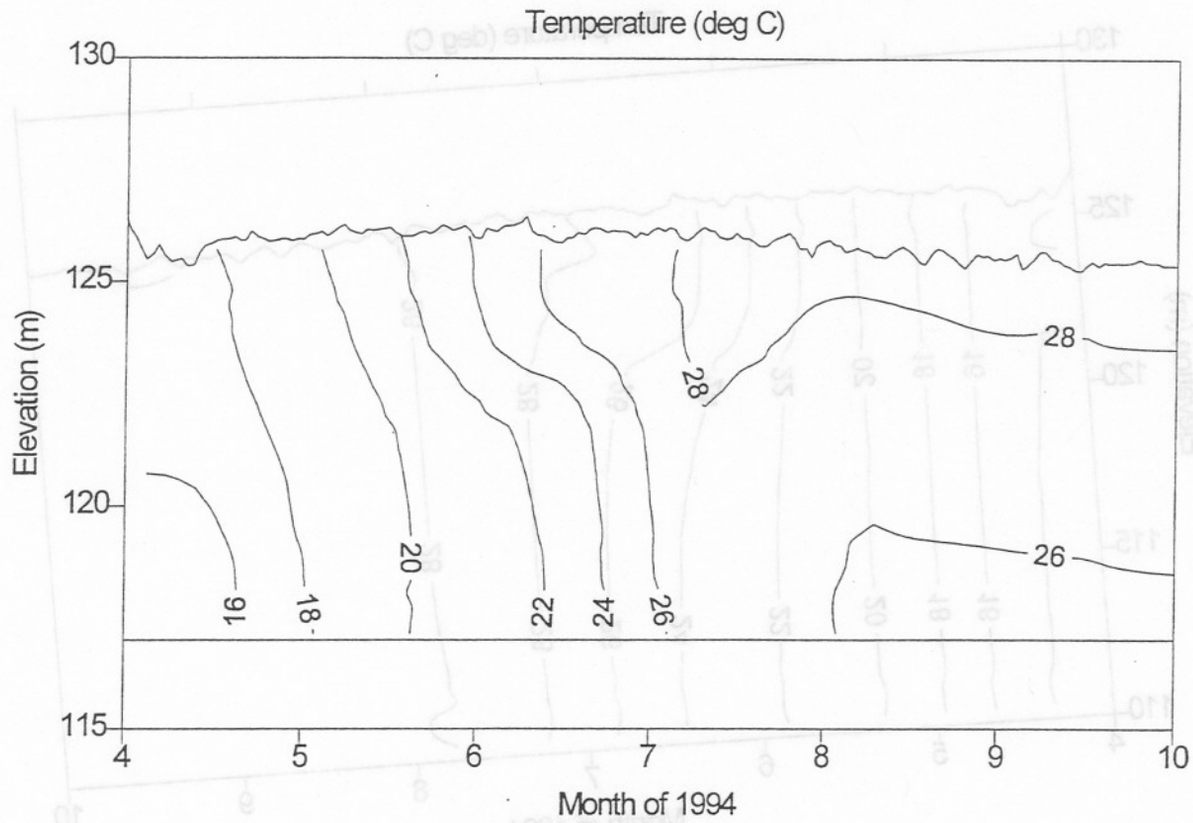


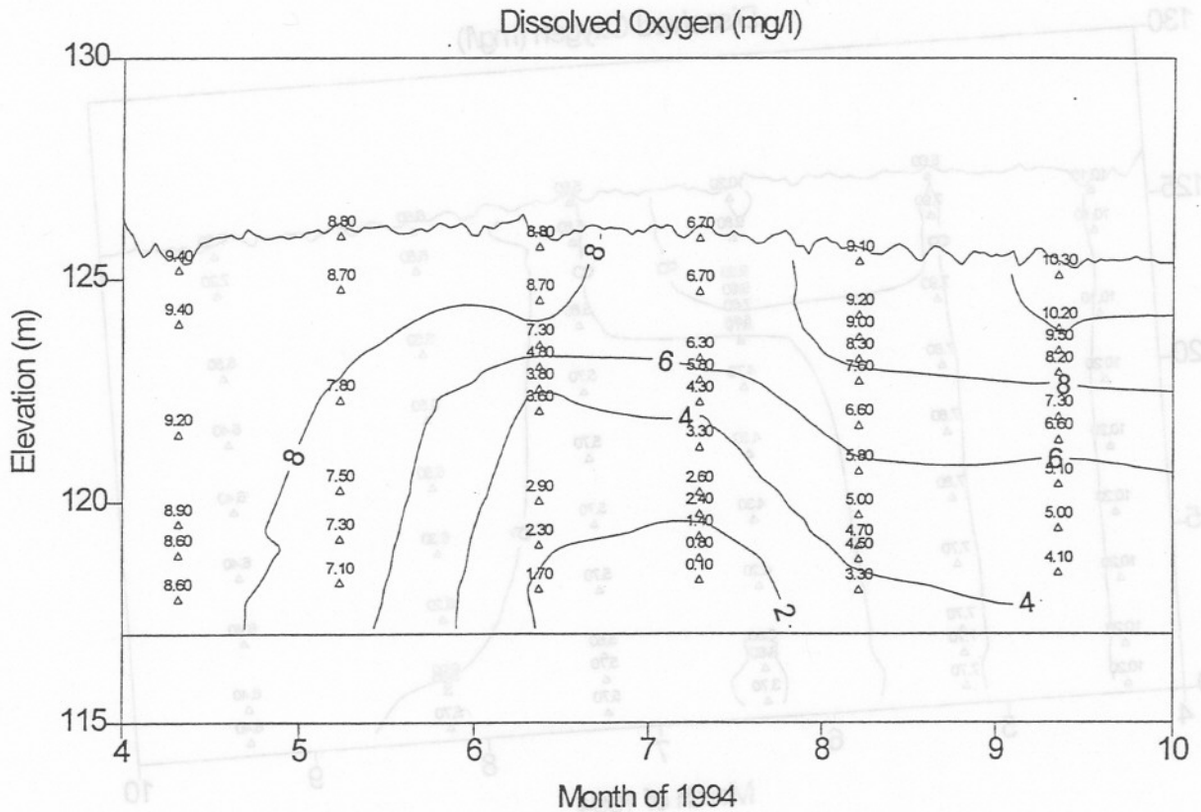
Pickwick Reservoir - TRM 230.3



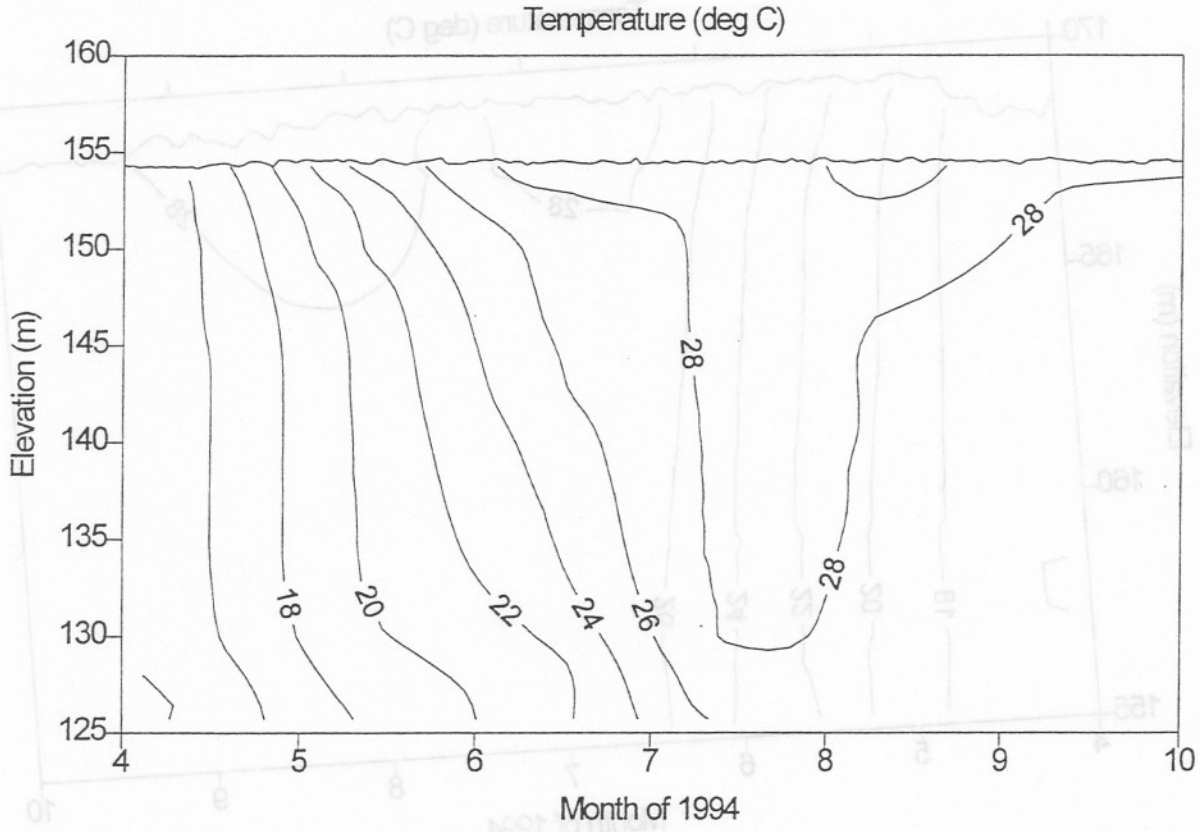


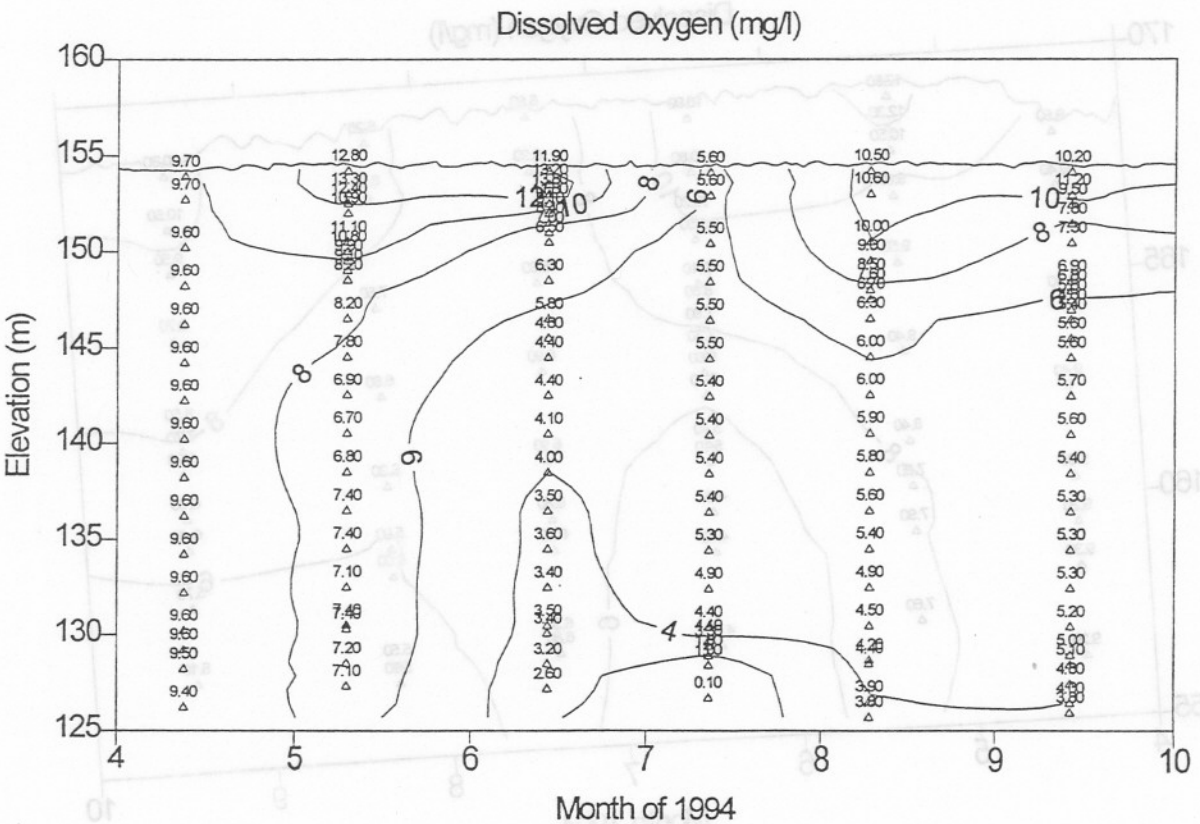
Pickwick Reservoir - Bear Creek Mile 8.4



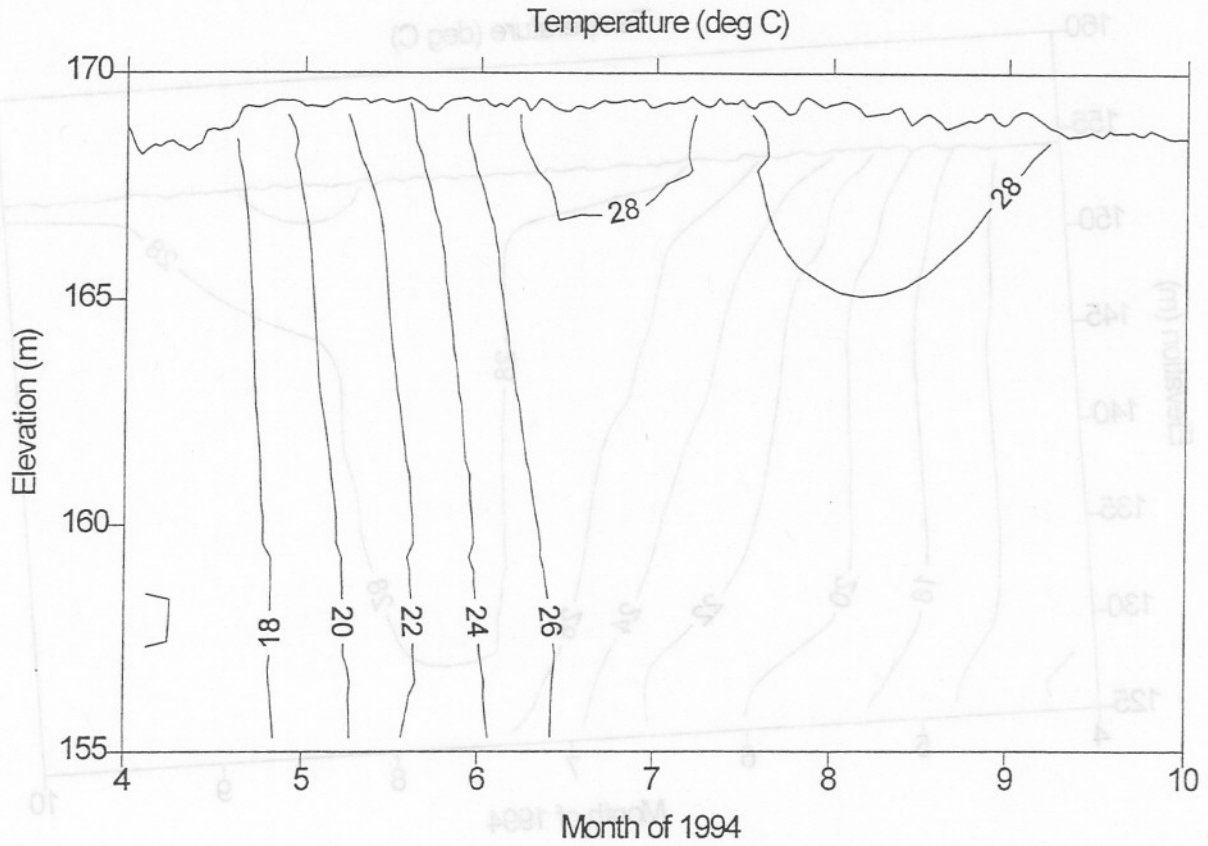


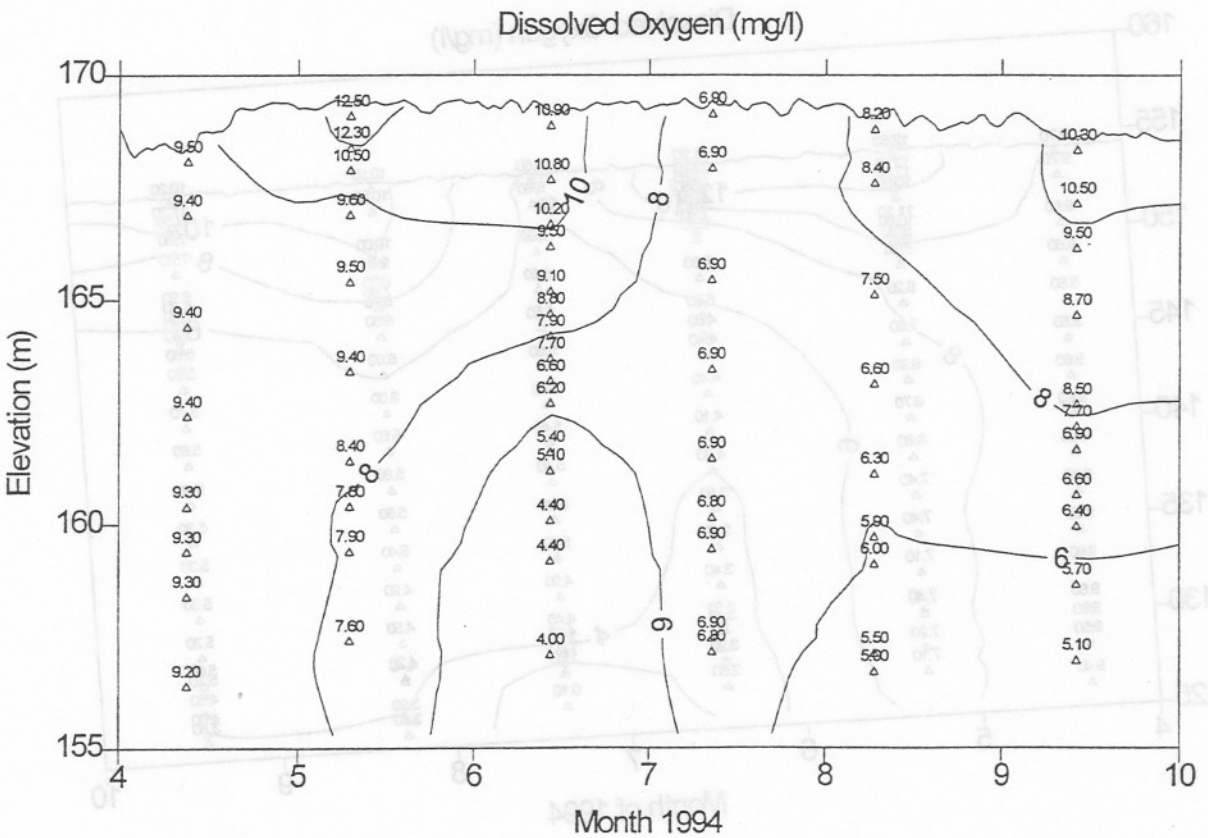
Wilson Reservoir - TRM 260.8



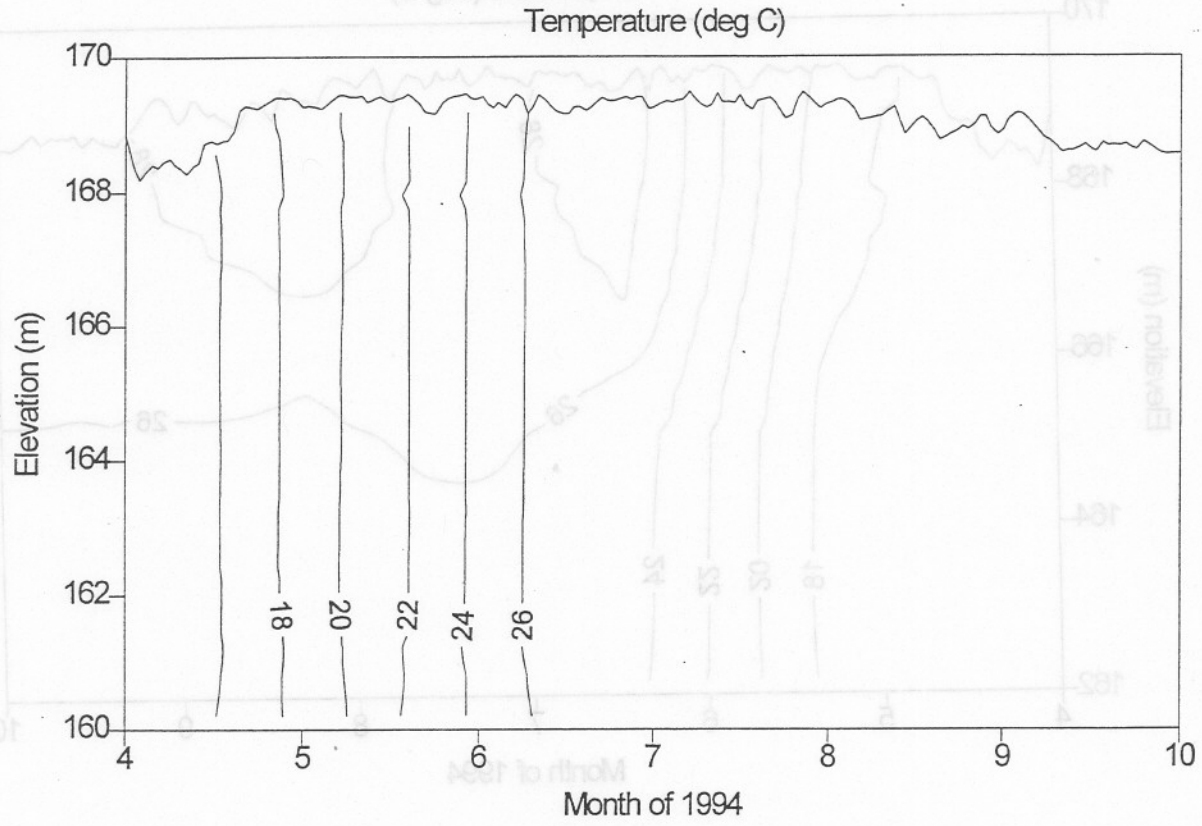


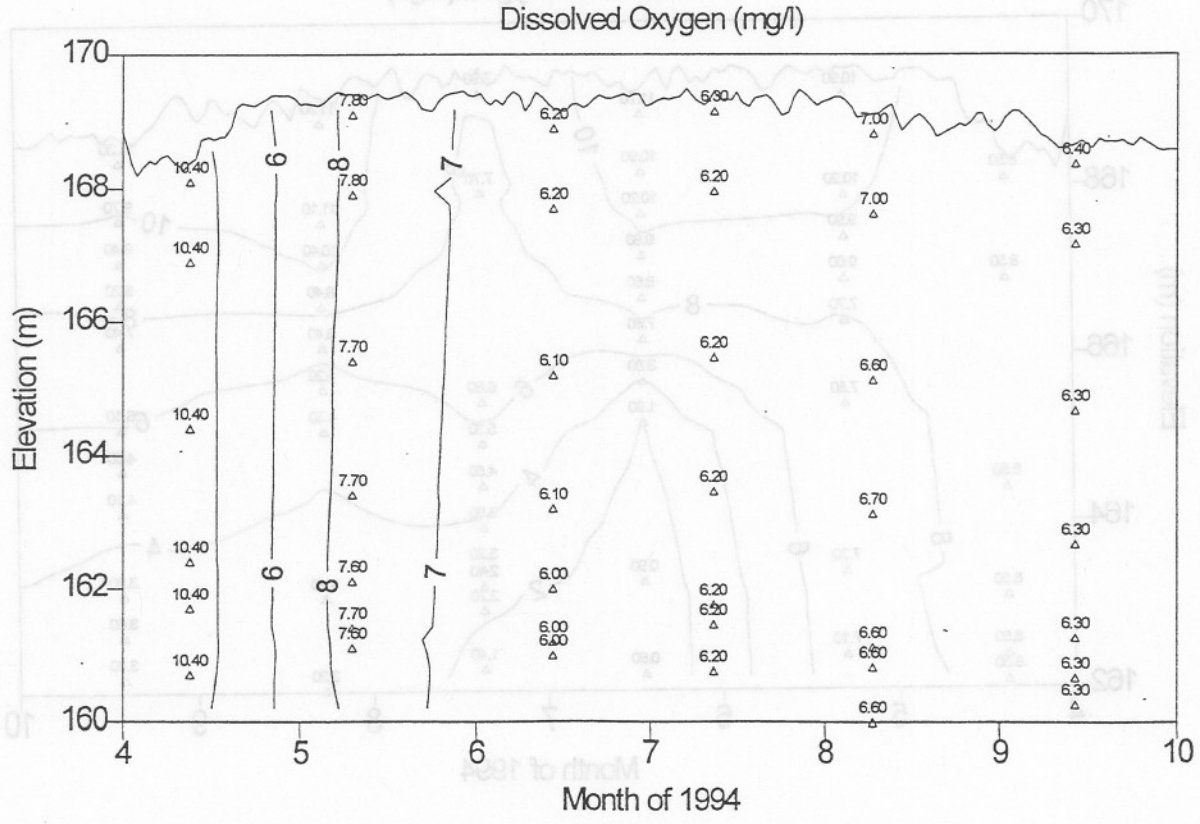
Wheeler Reservoir - TRM 277.0



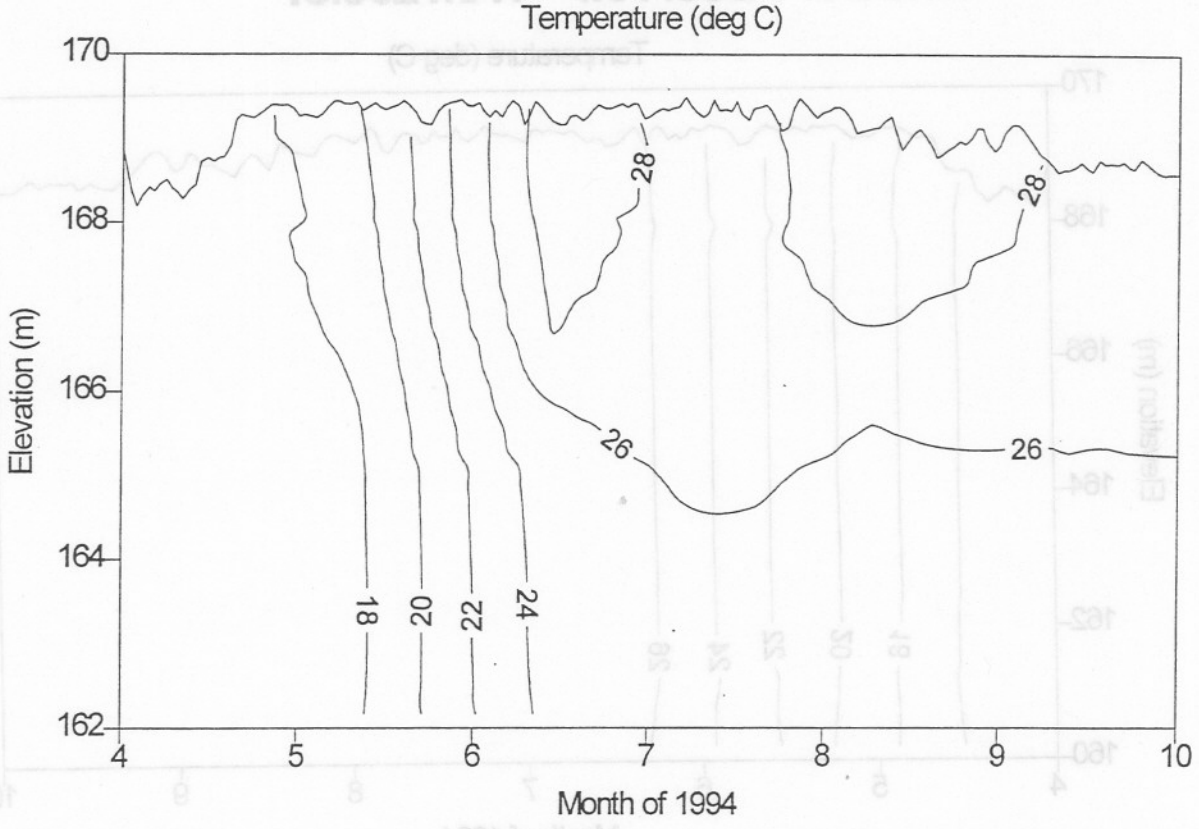


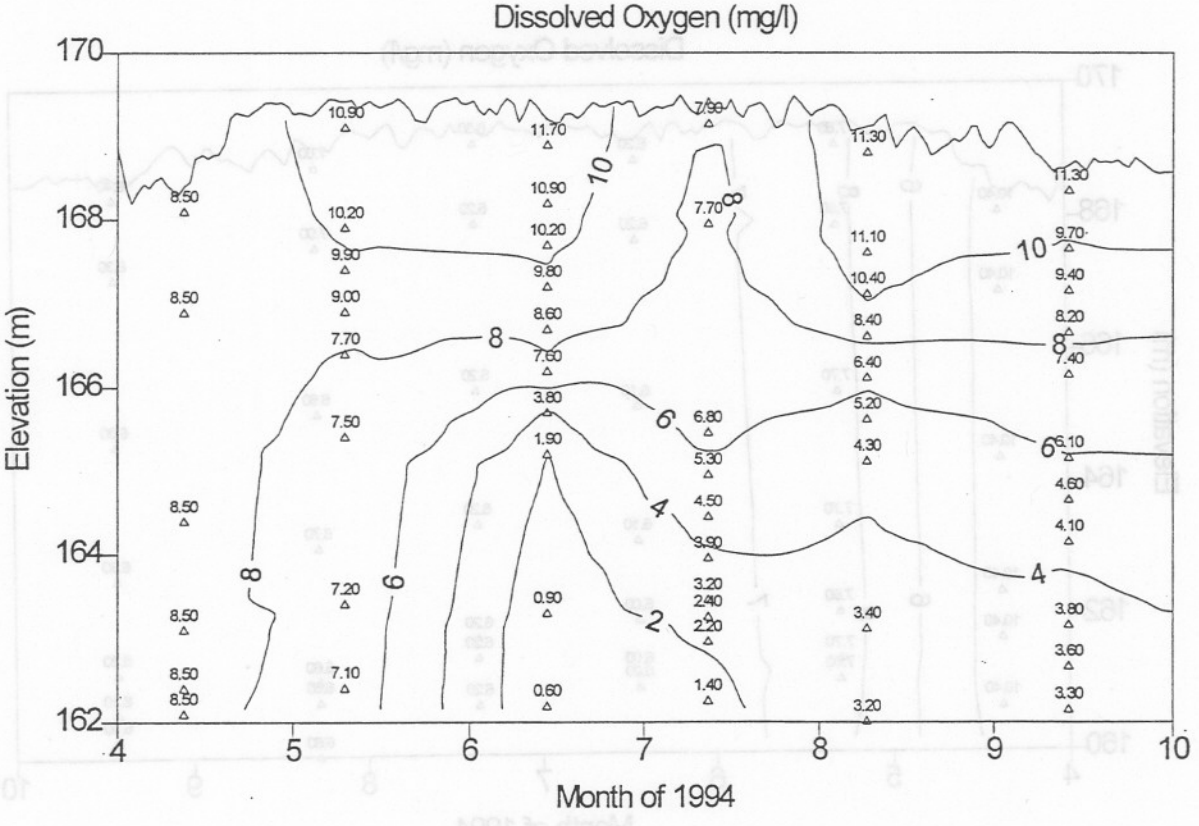
Wheeler Reservoir - TRM 295.87



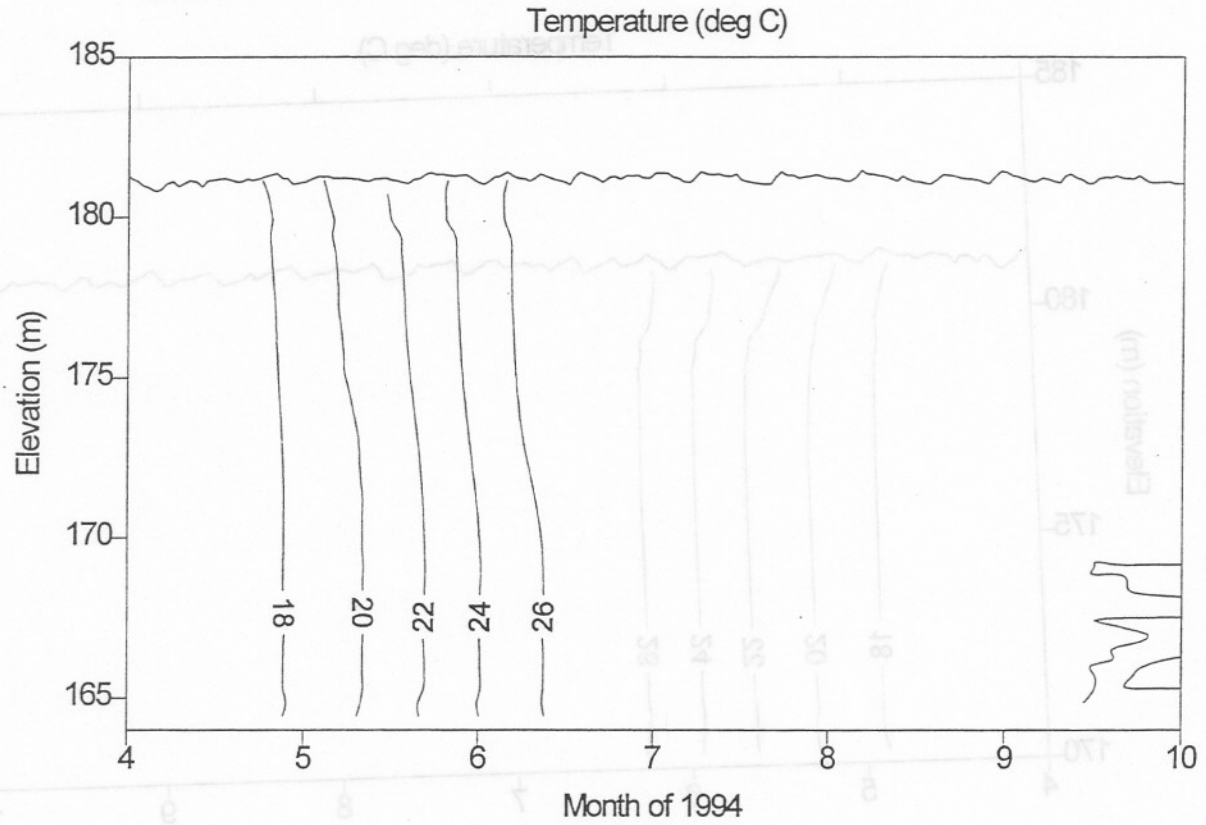


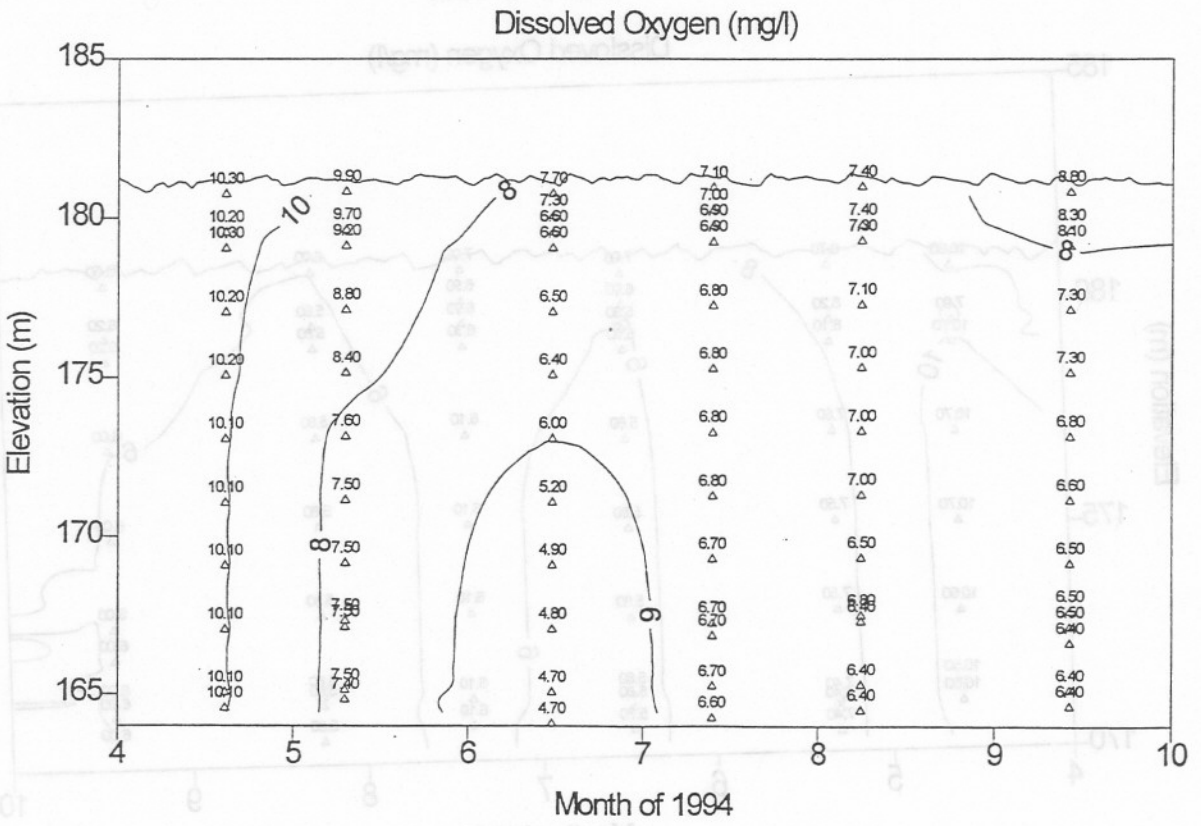
Wheeler Reservoir - Elk River Mile 6.0



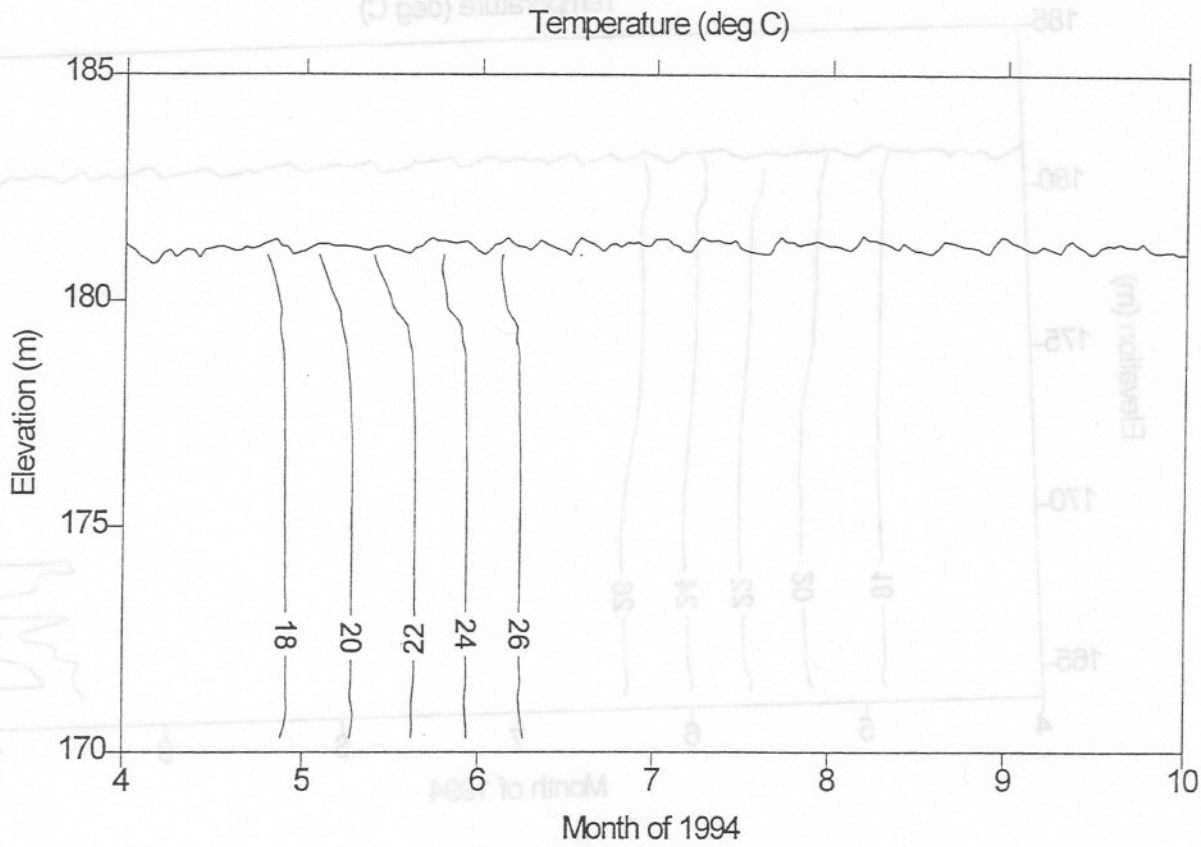


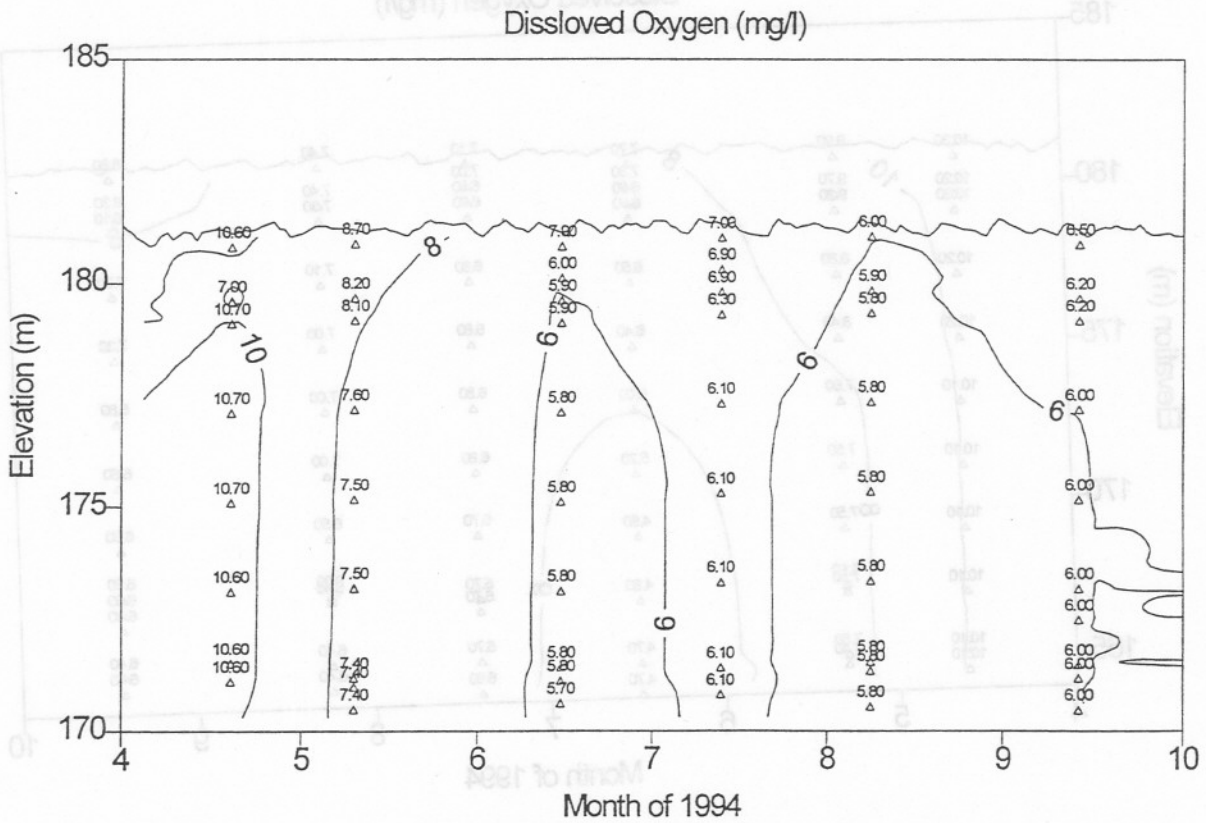
Guntersville Reservoir - TRM 350.0



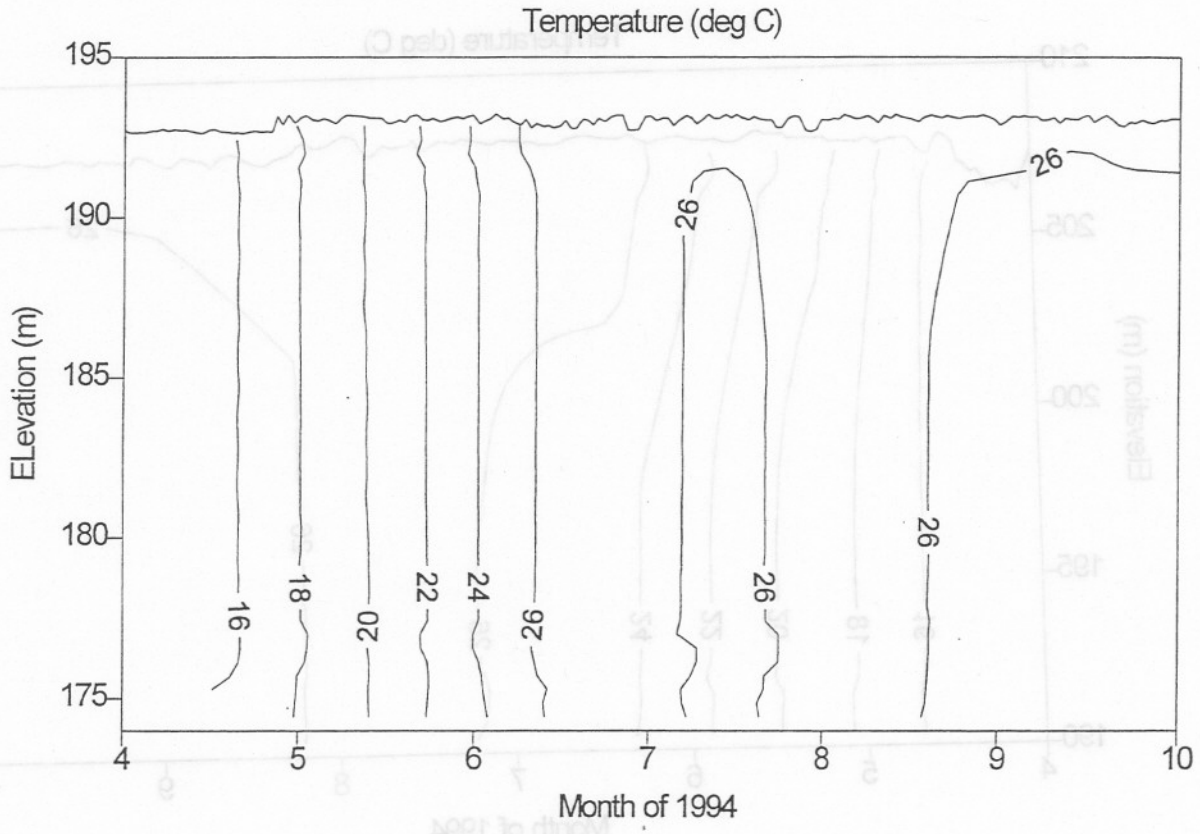


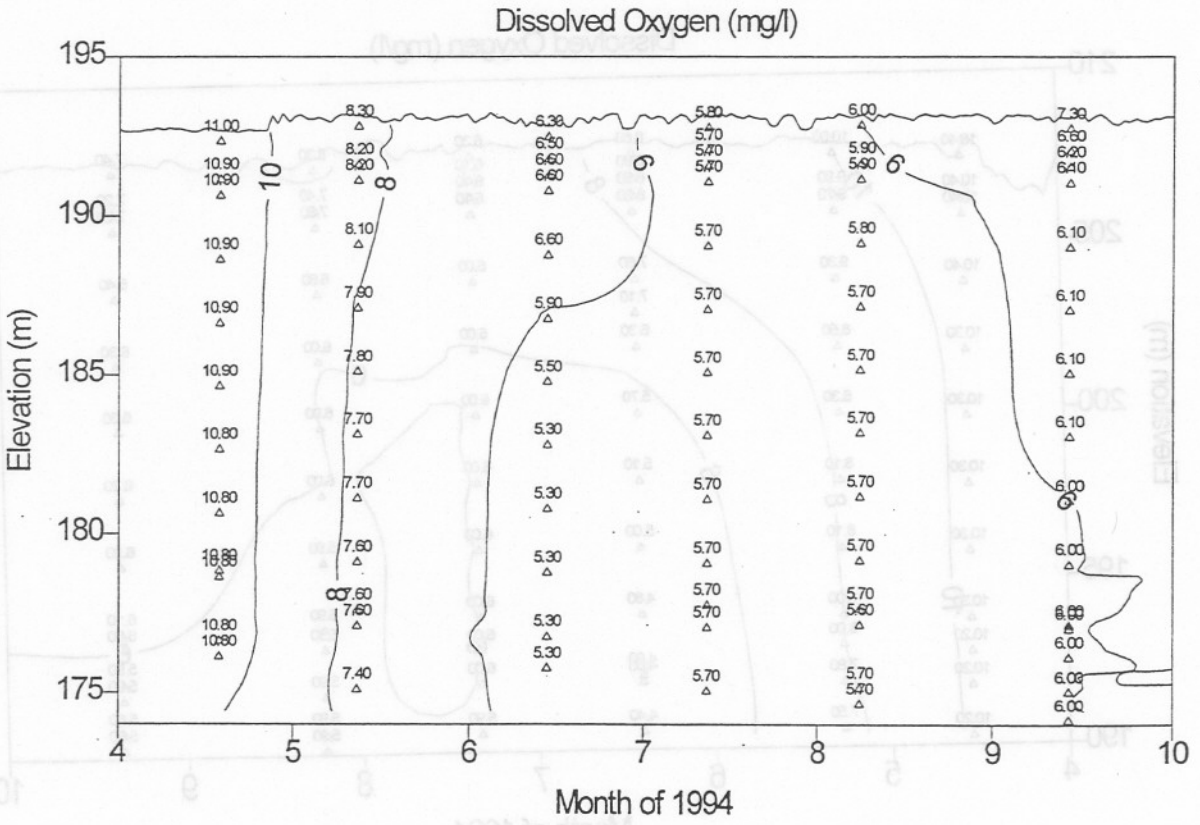
Guntersville Reservoir - TRM 375.2



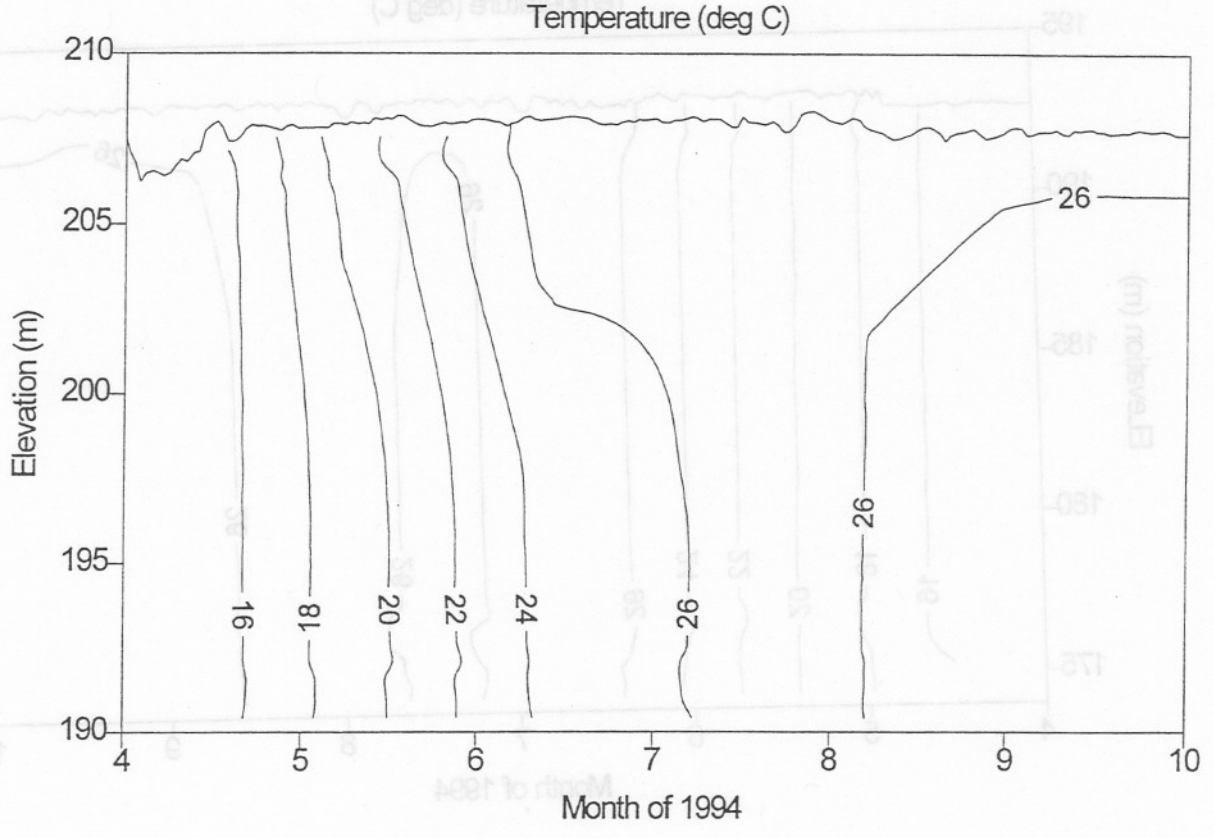


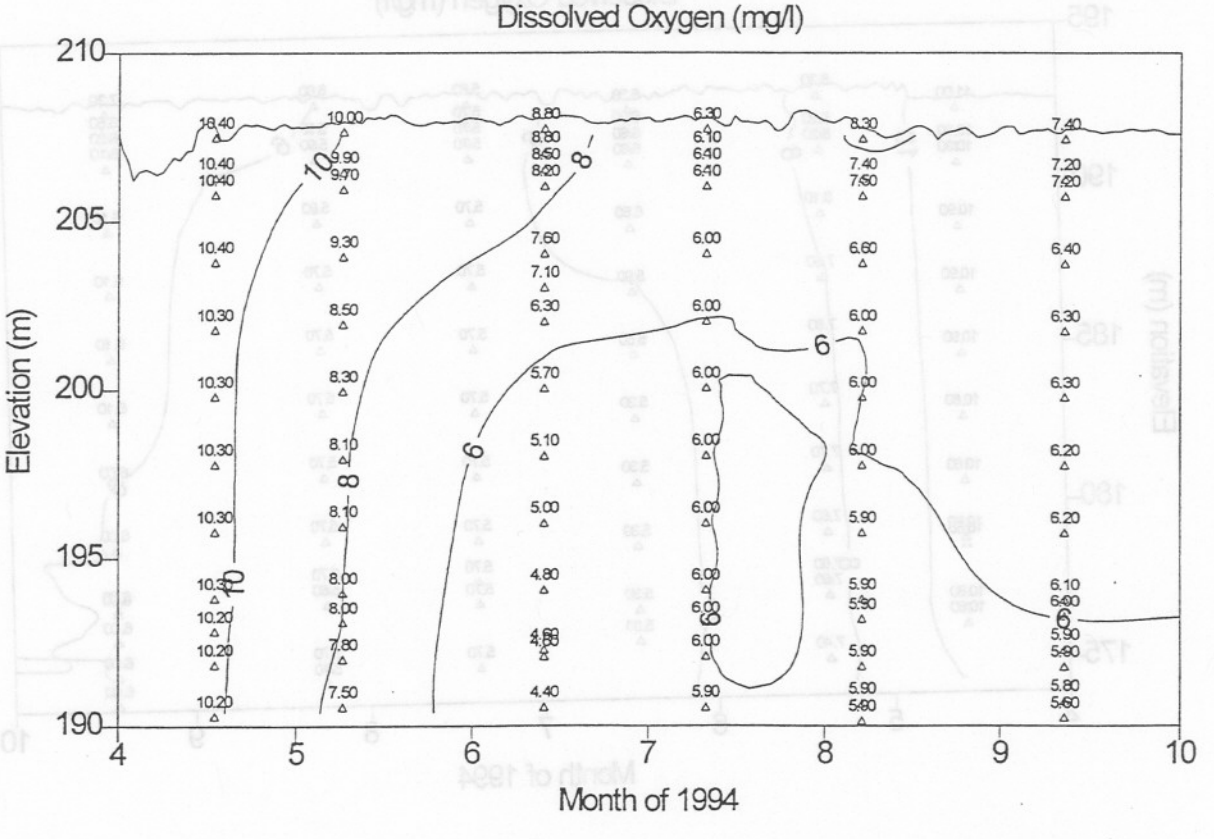
Nickajack Reservoir - TRM 425.5



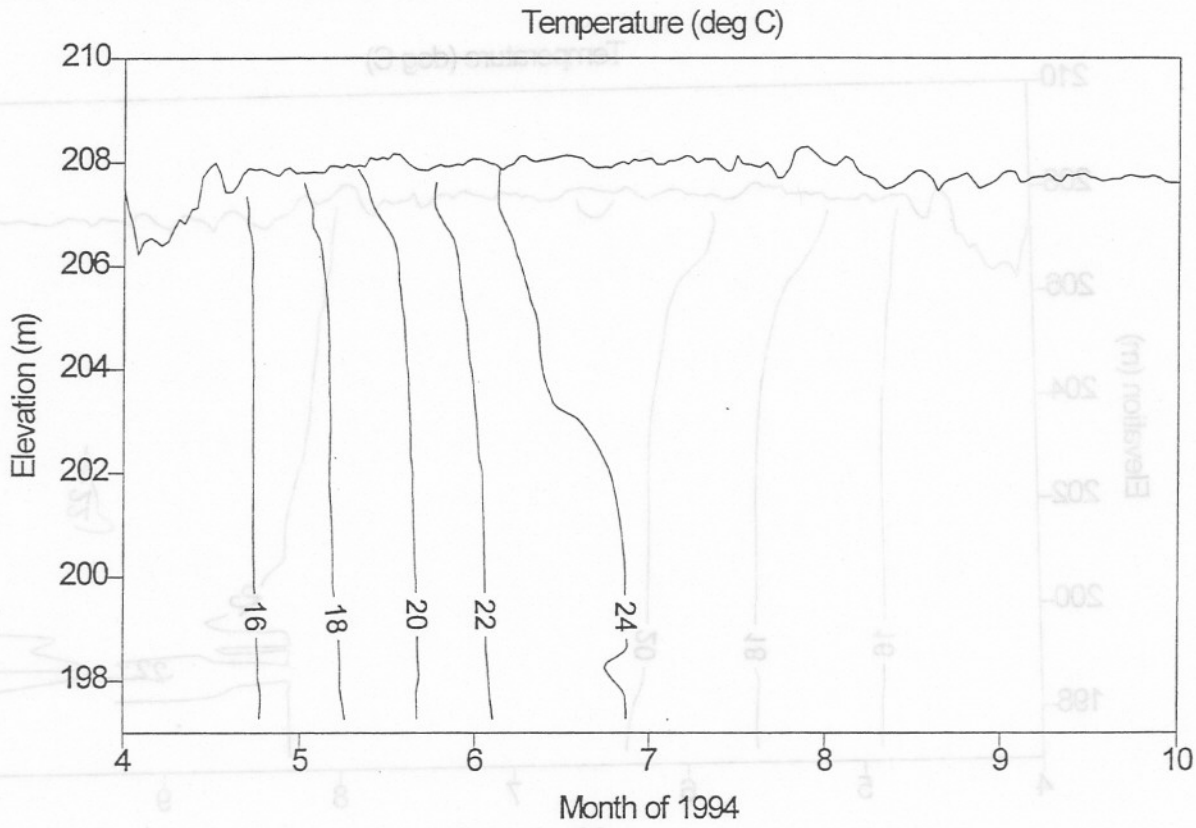


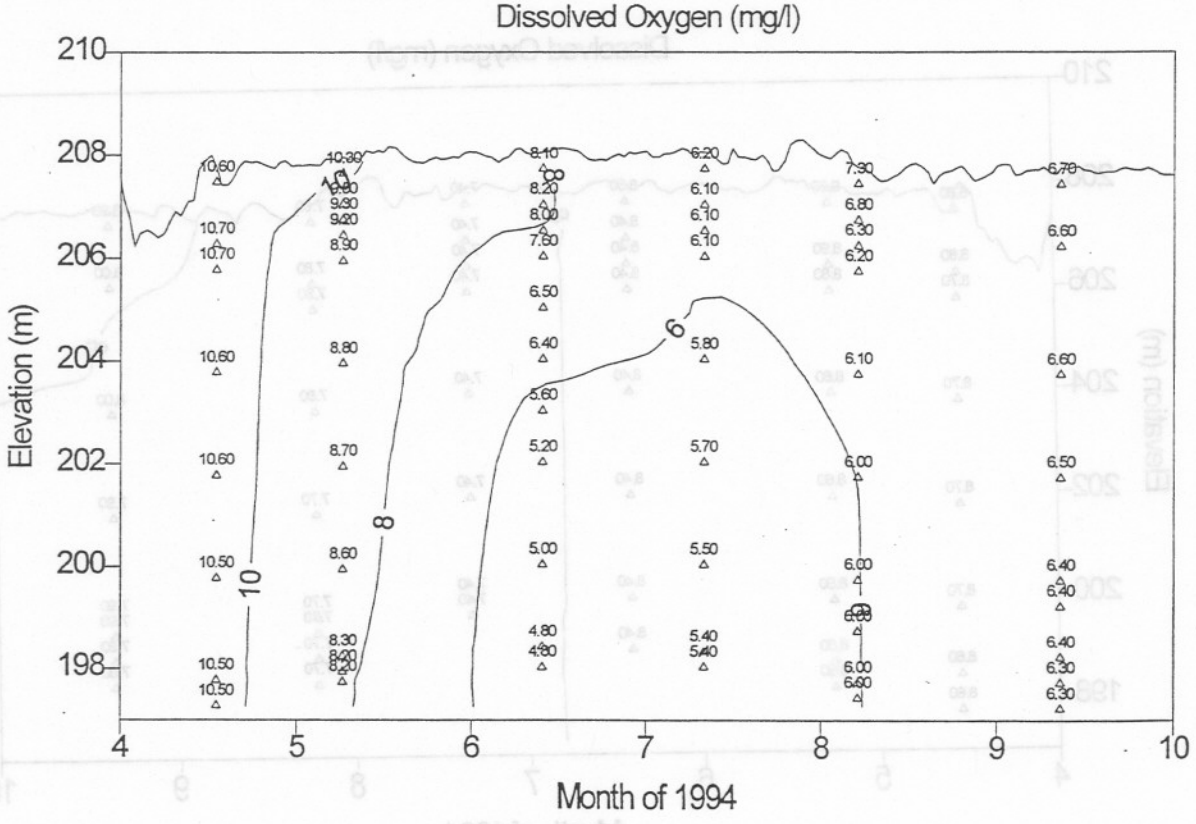
Chickamauga Reservoir - TRM 472.3



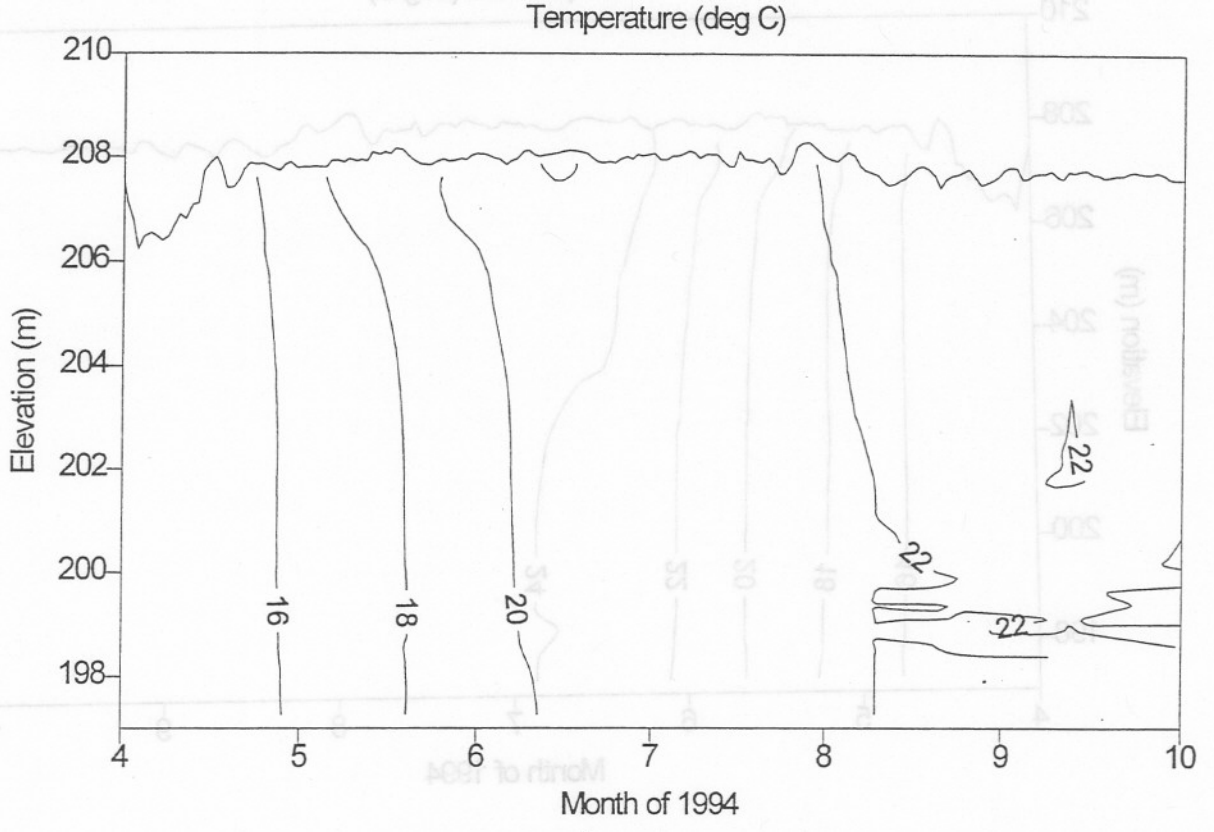


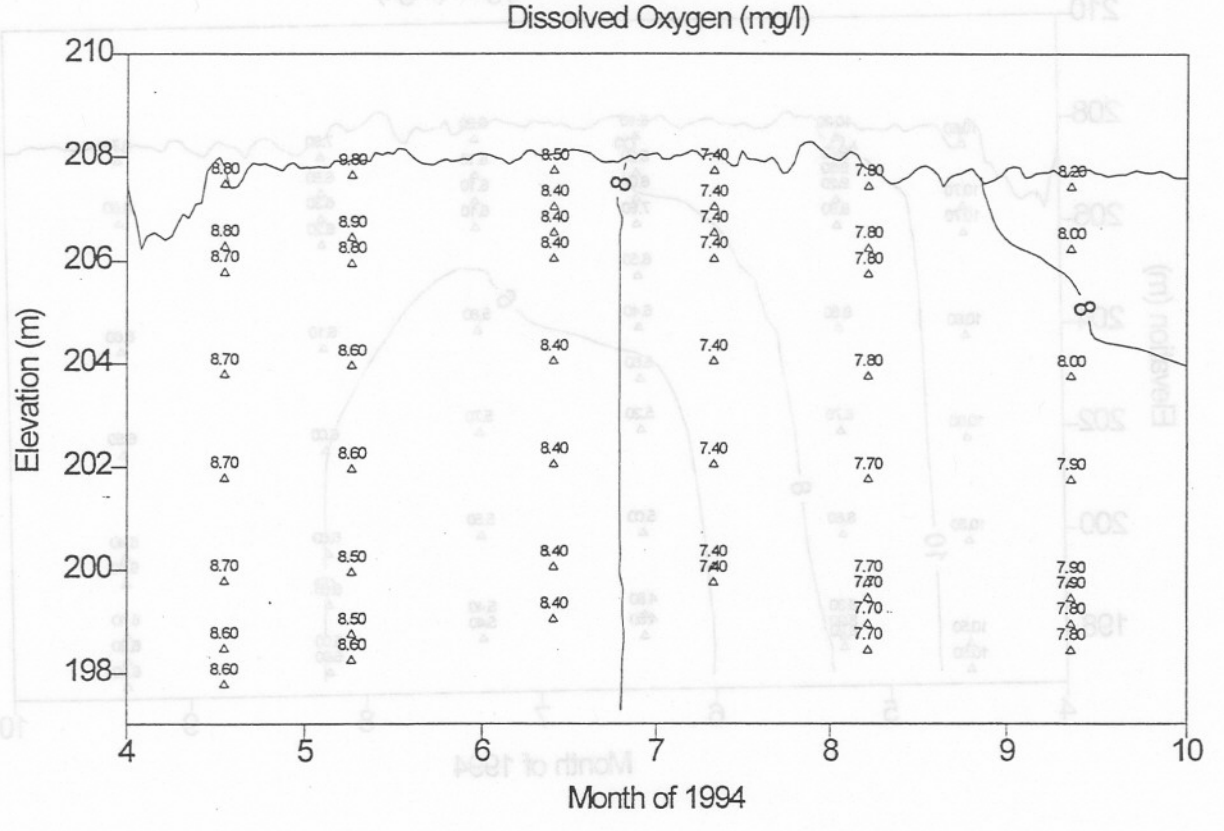
Chickamauga Reservoir - TRM 490.5



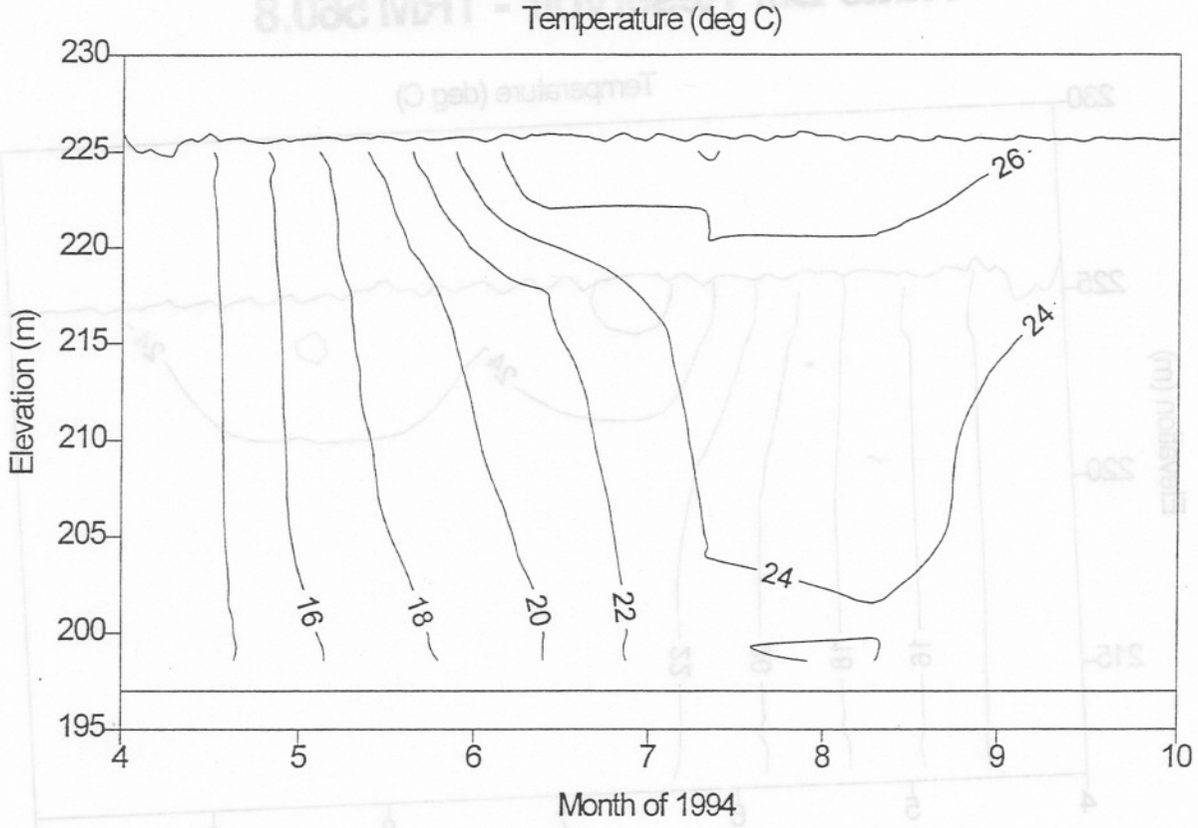


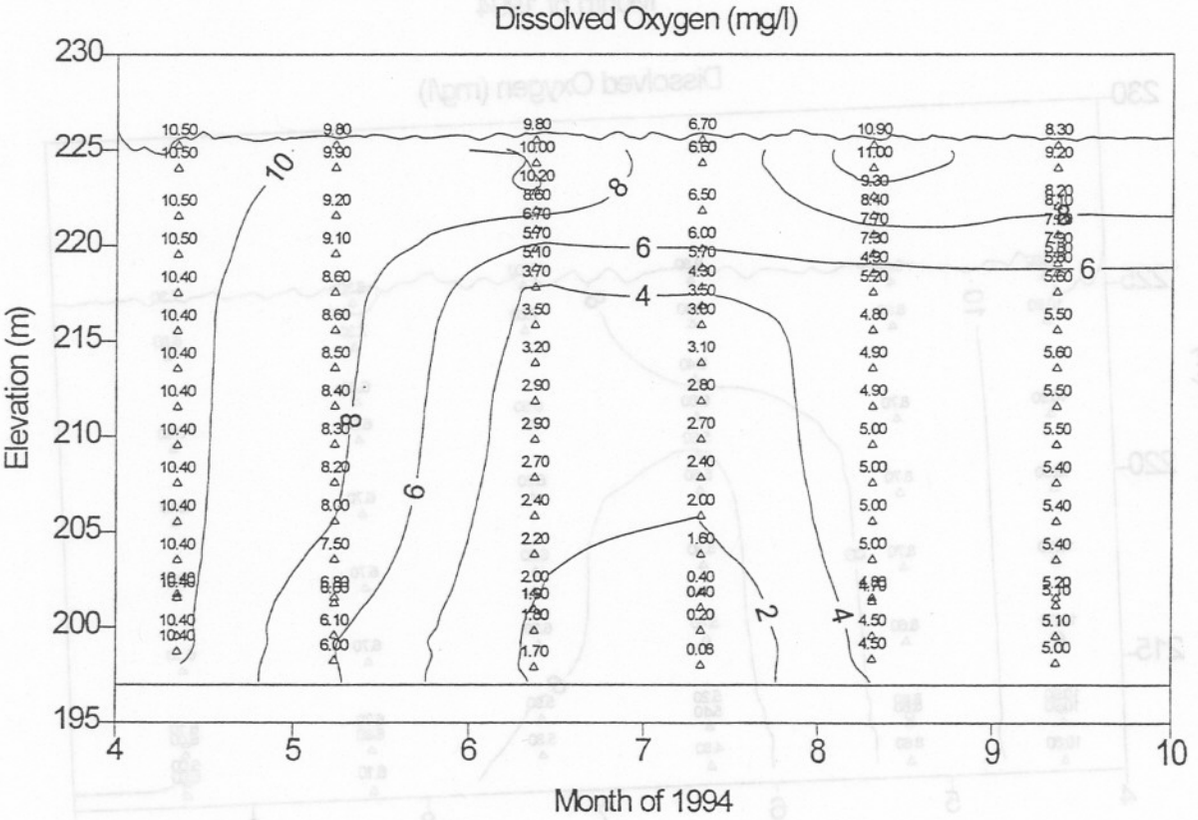
Chickamagua Reservoir - Hiwassee River Mile 8.5



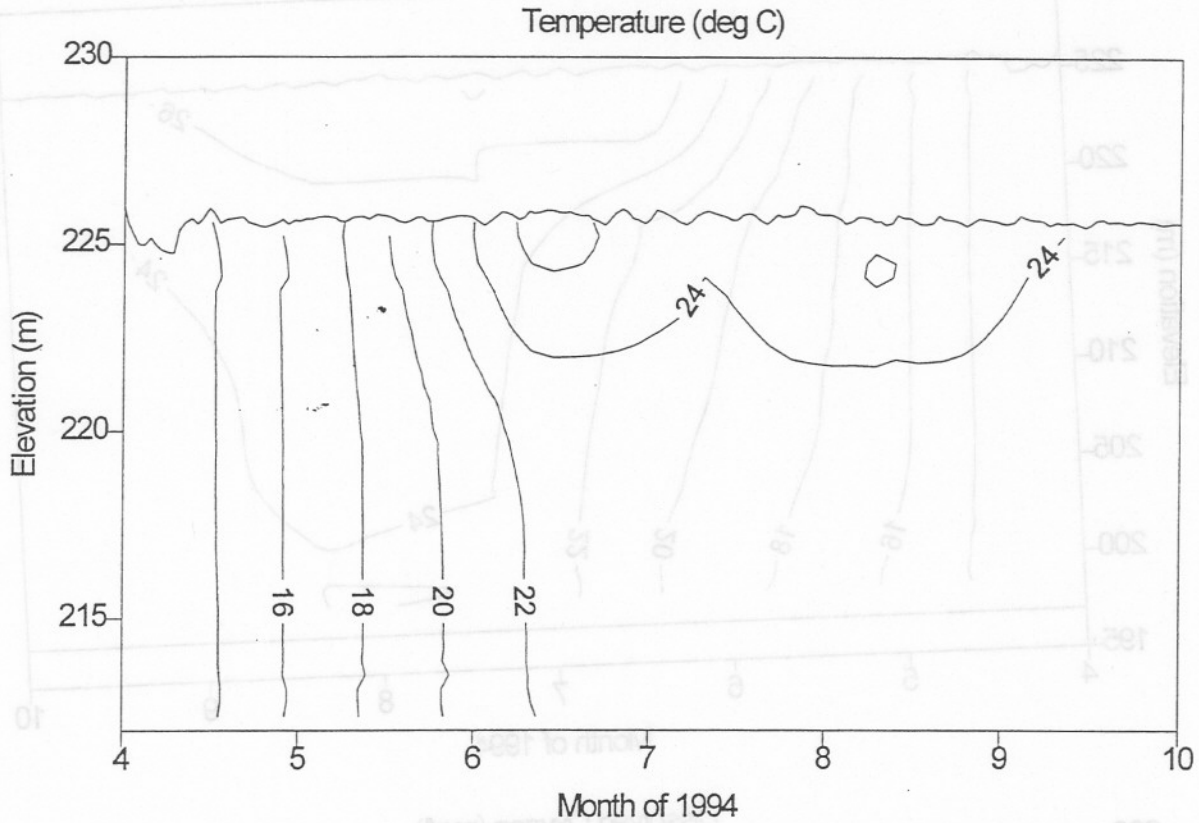


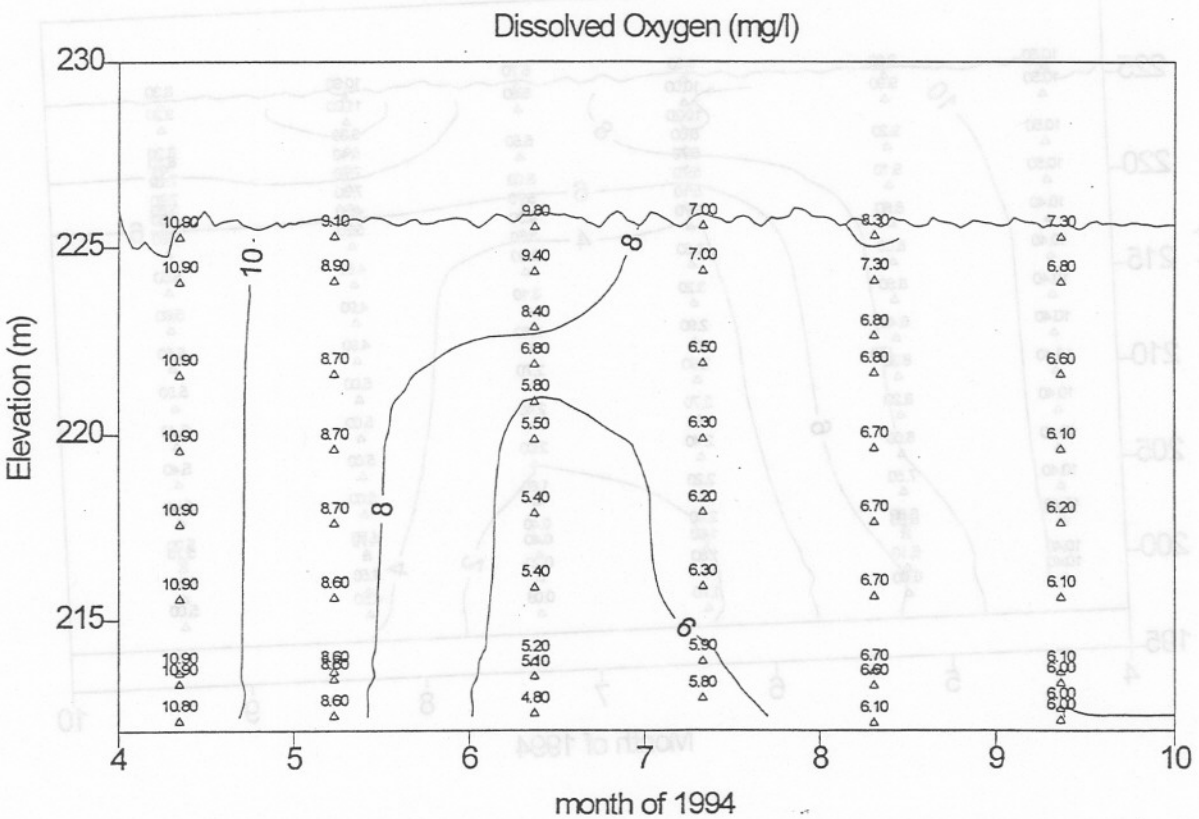
Watts Bar Reservoir - TRM 531.0



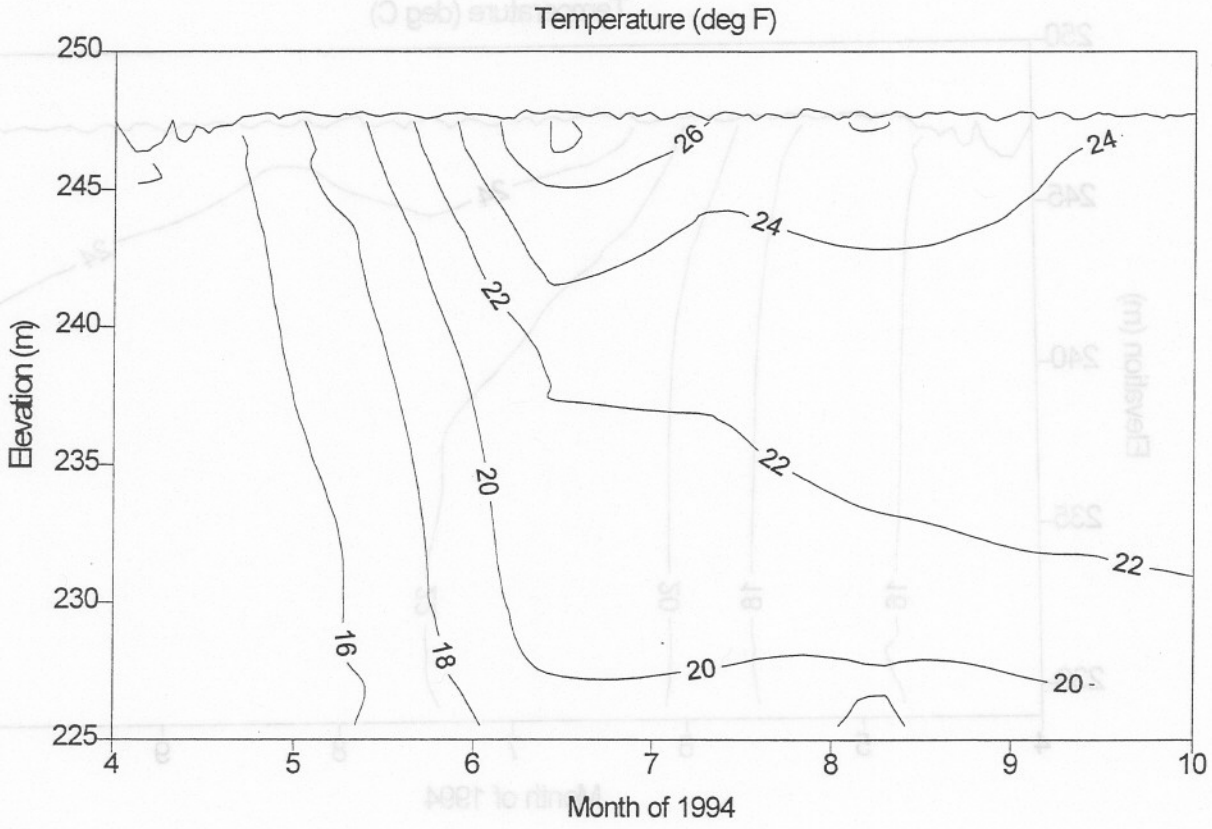


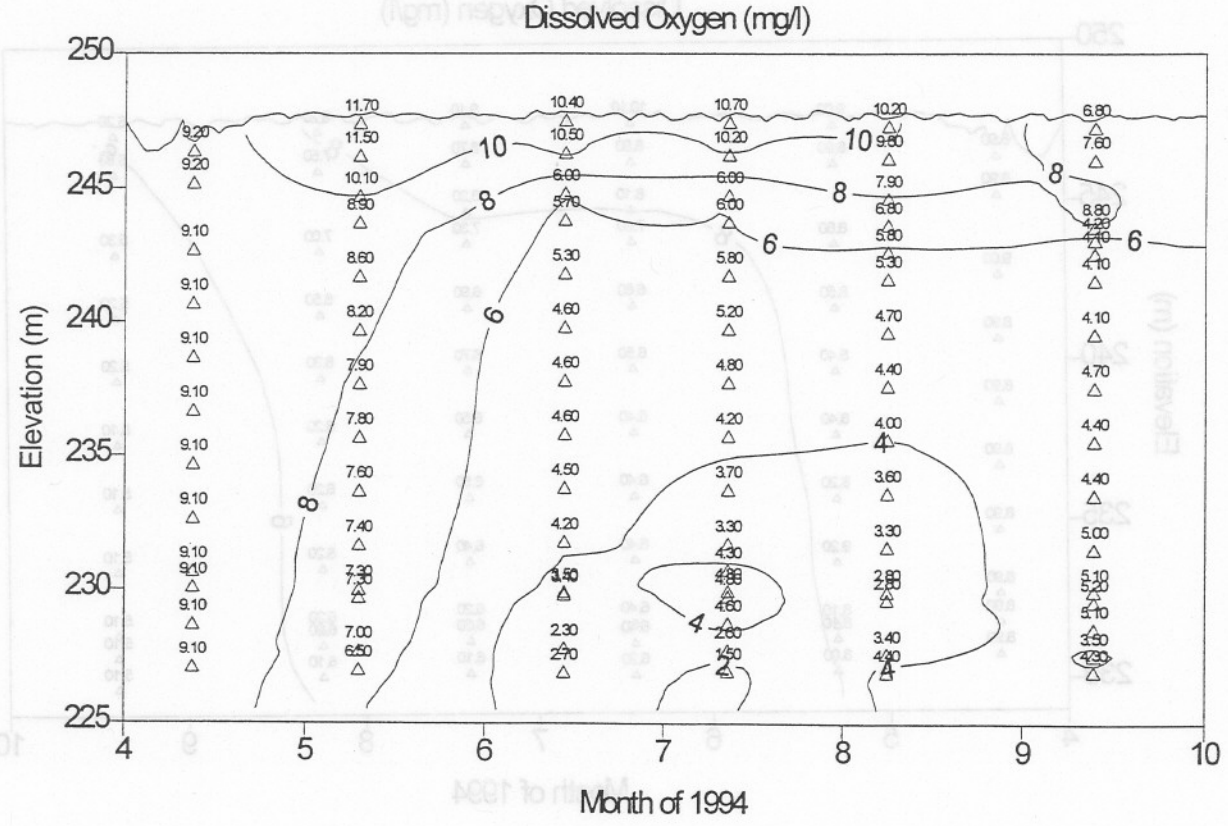
Watts Bar Reservoir - TRM 560.8



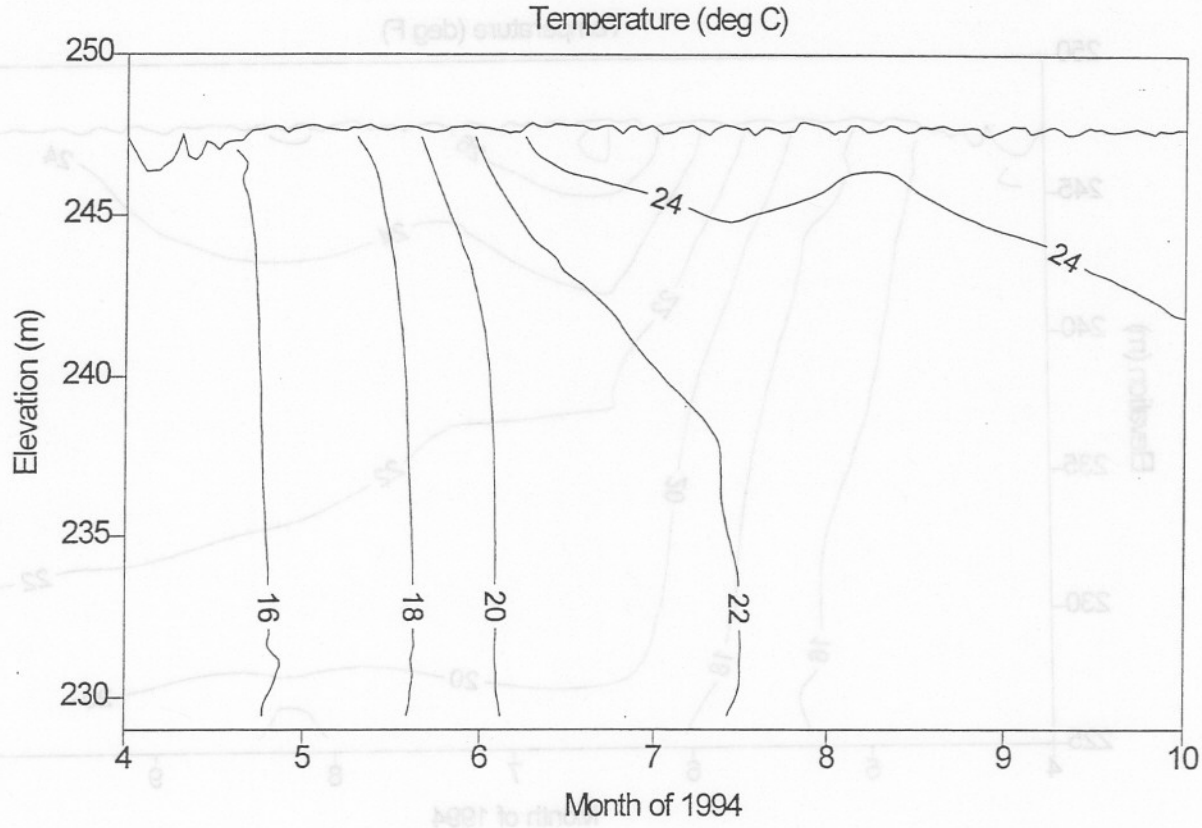


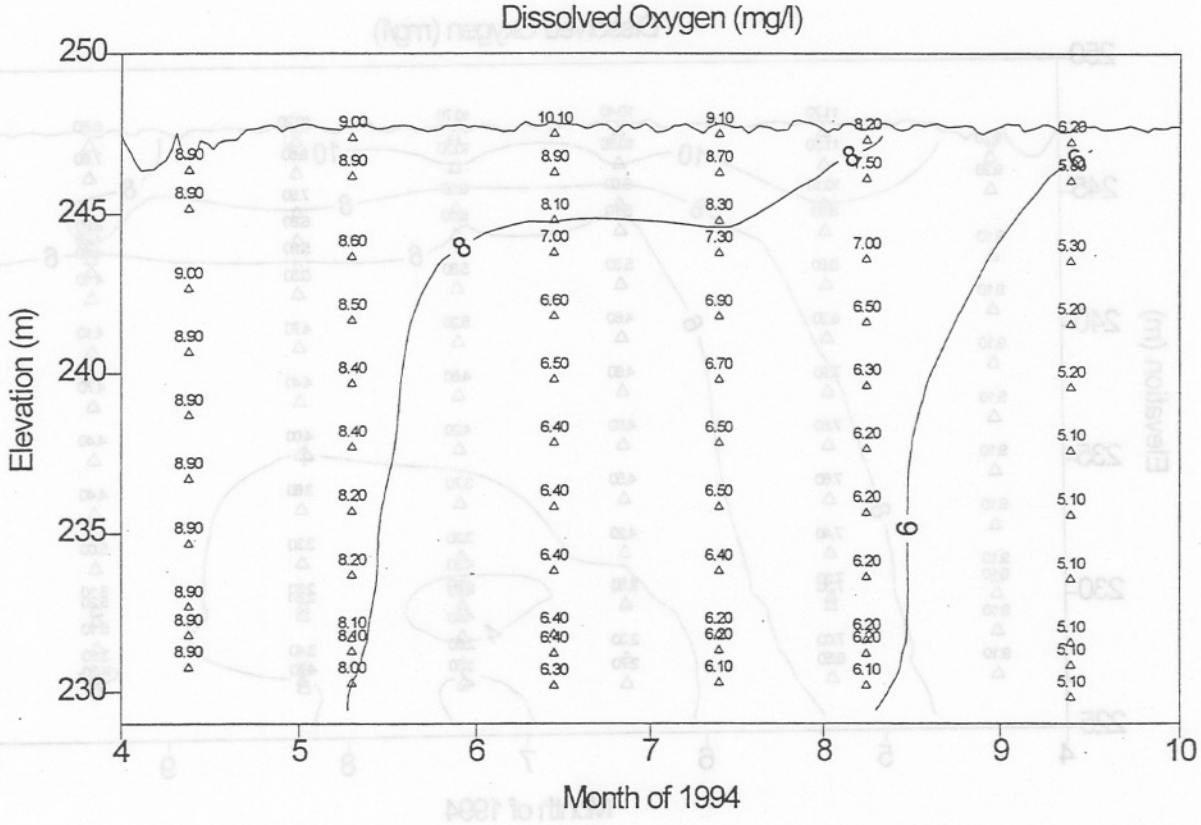
Fort Loudoun Reservoir - TRM 605.5



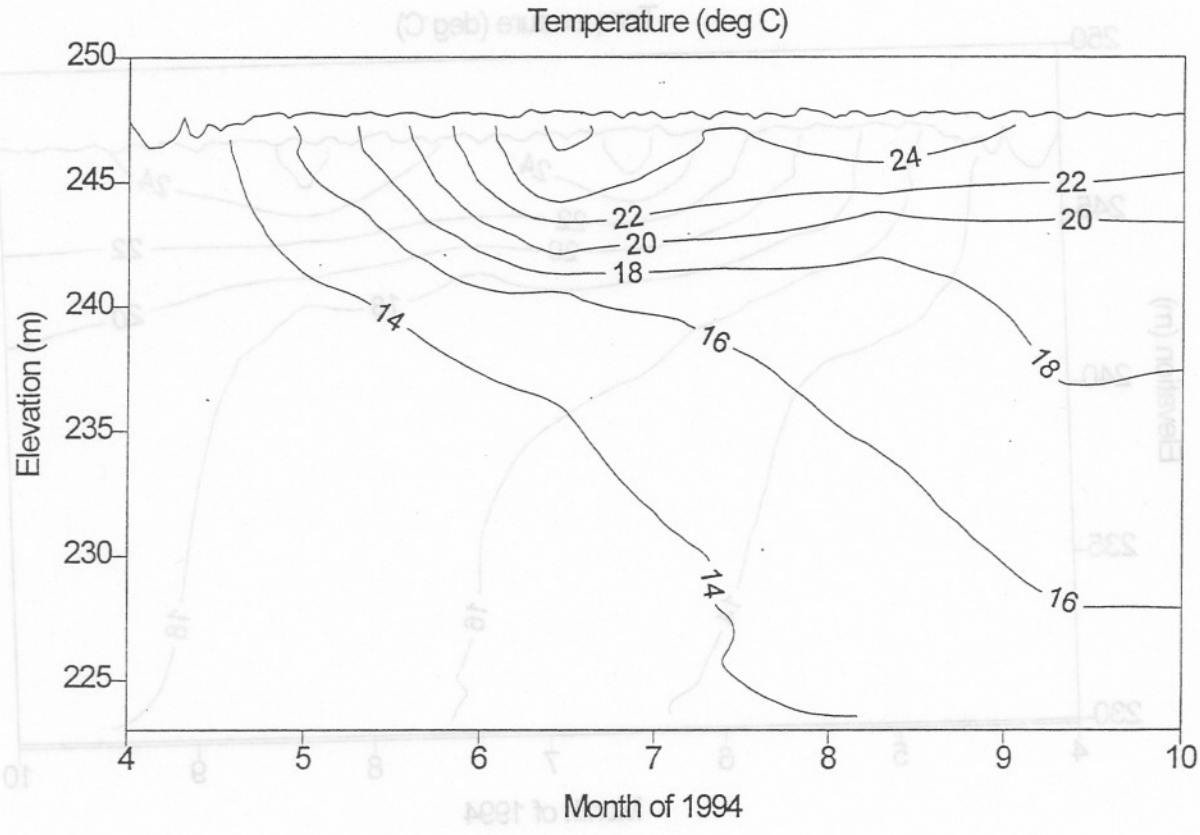


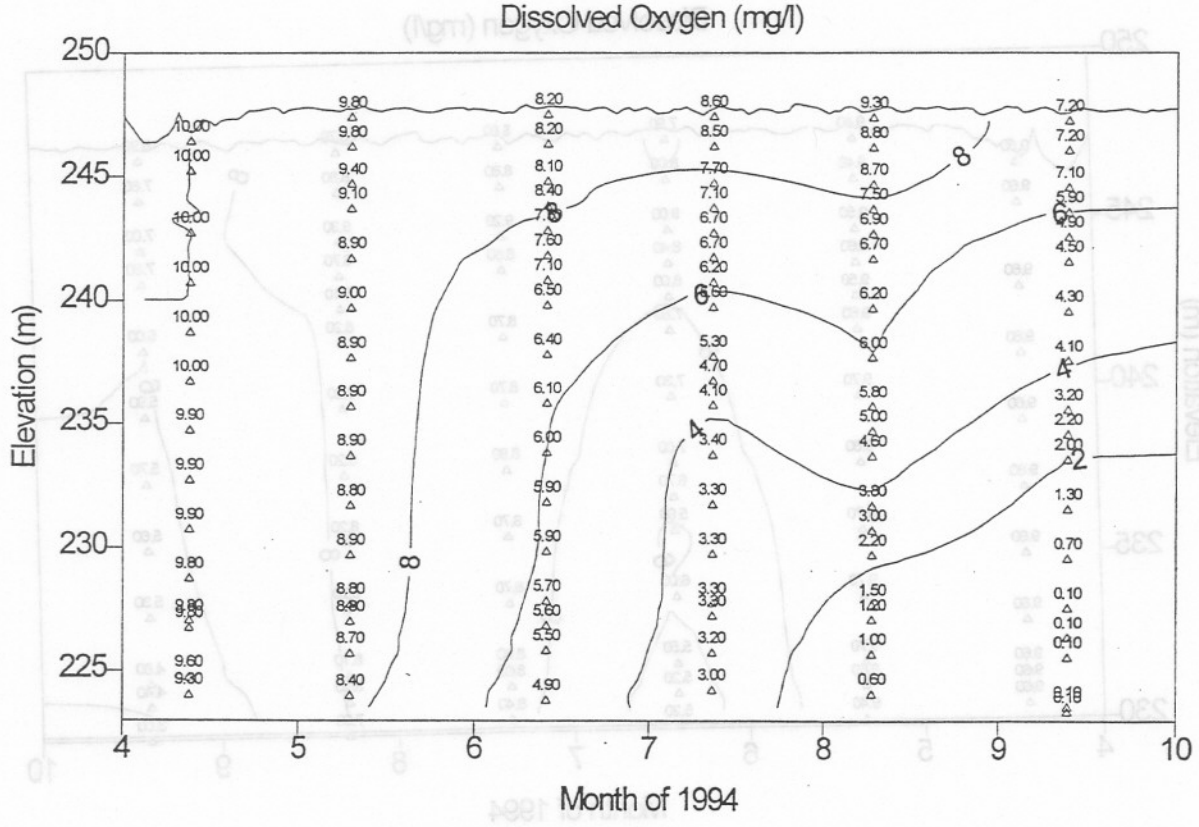
Fort Loudoun Reservoir - TRM 624.6



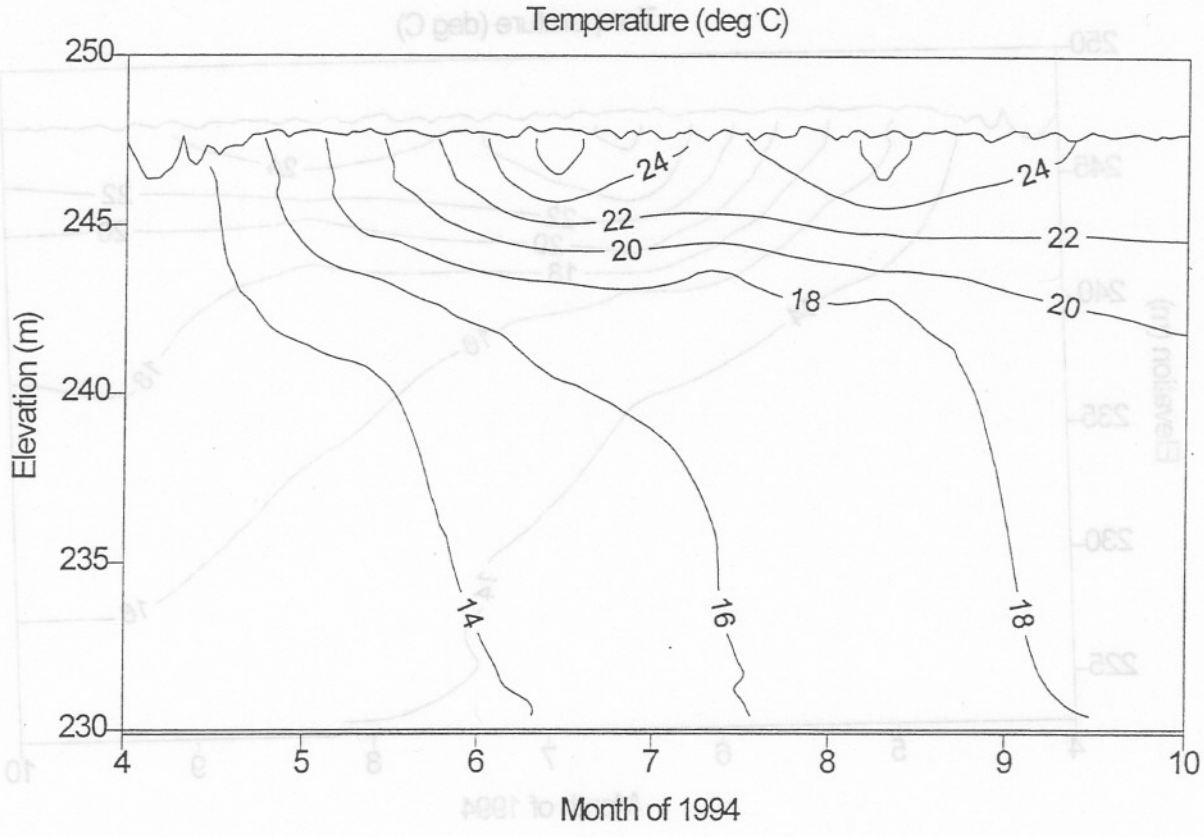


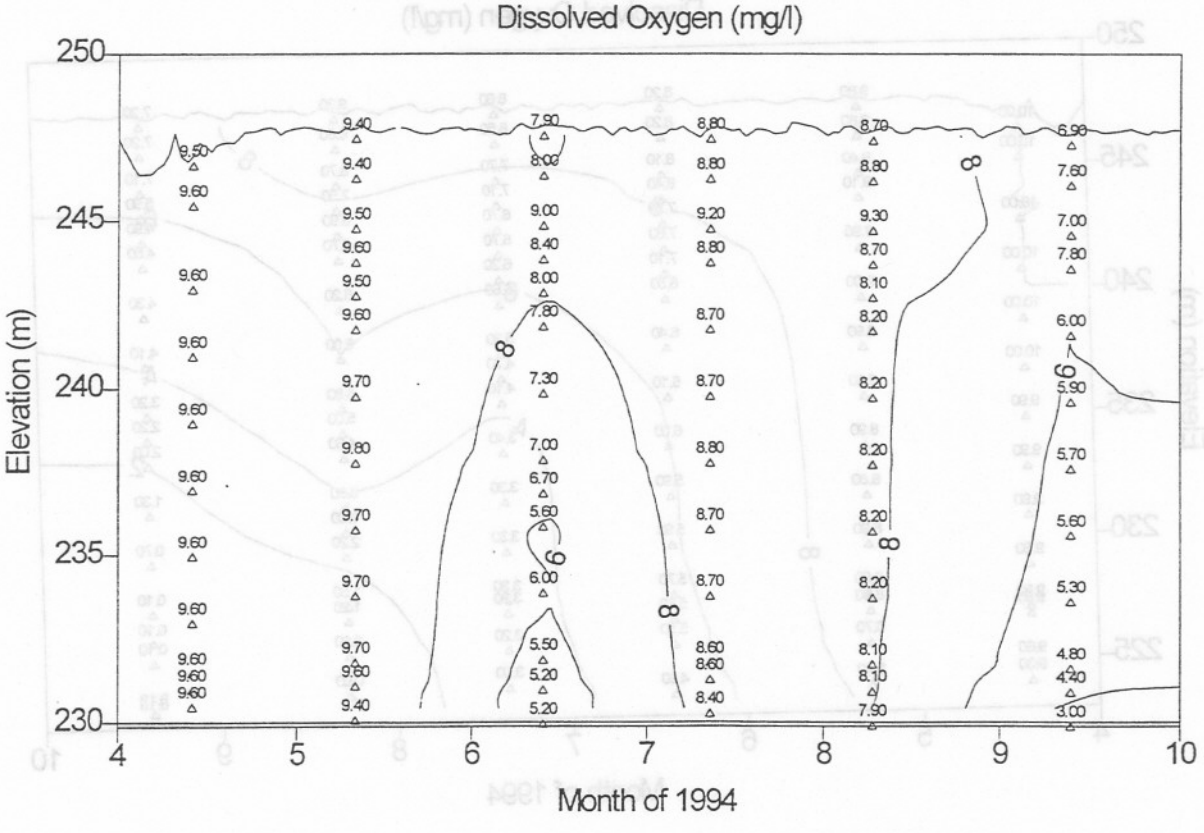
Tellico Reservoir - LTRM 1.0



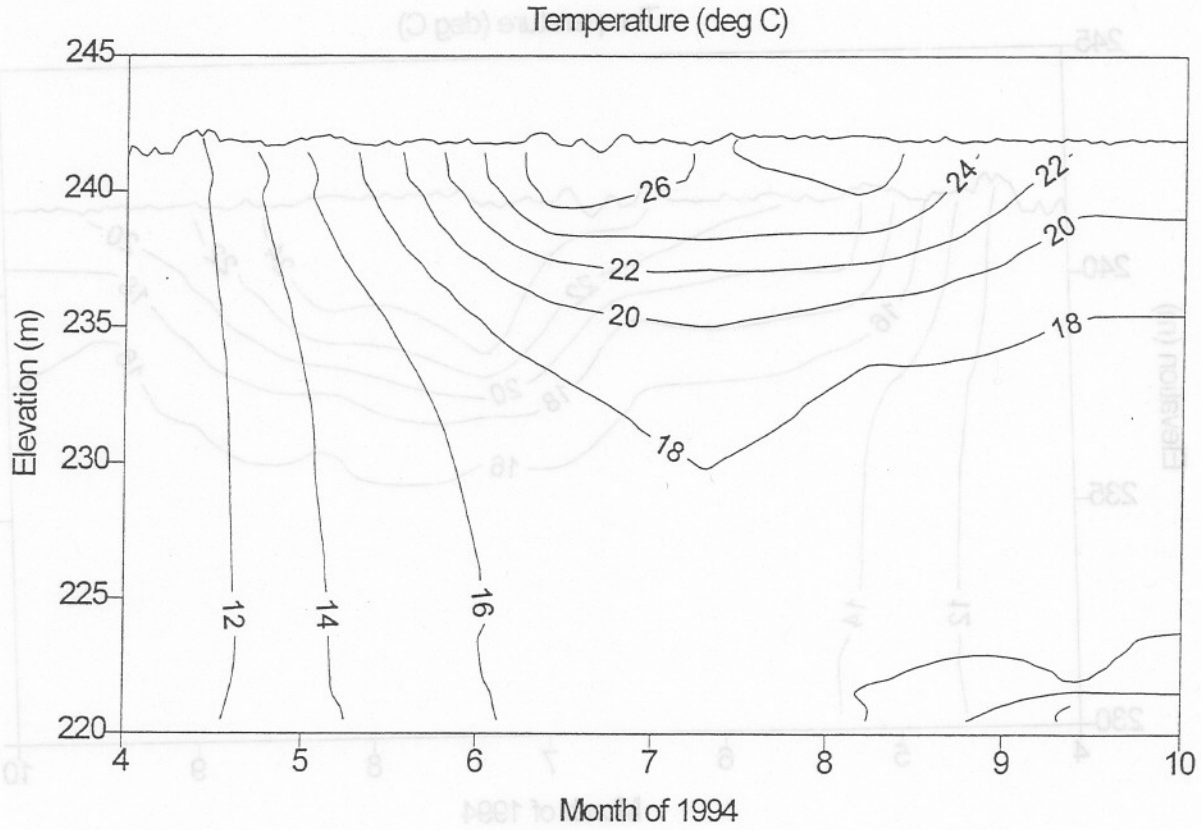


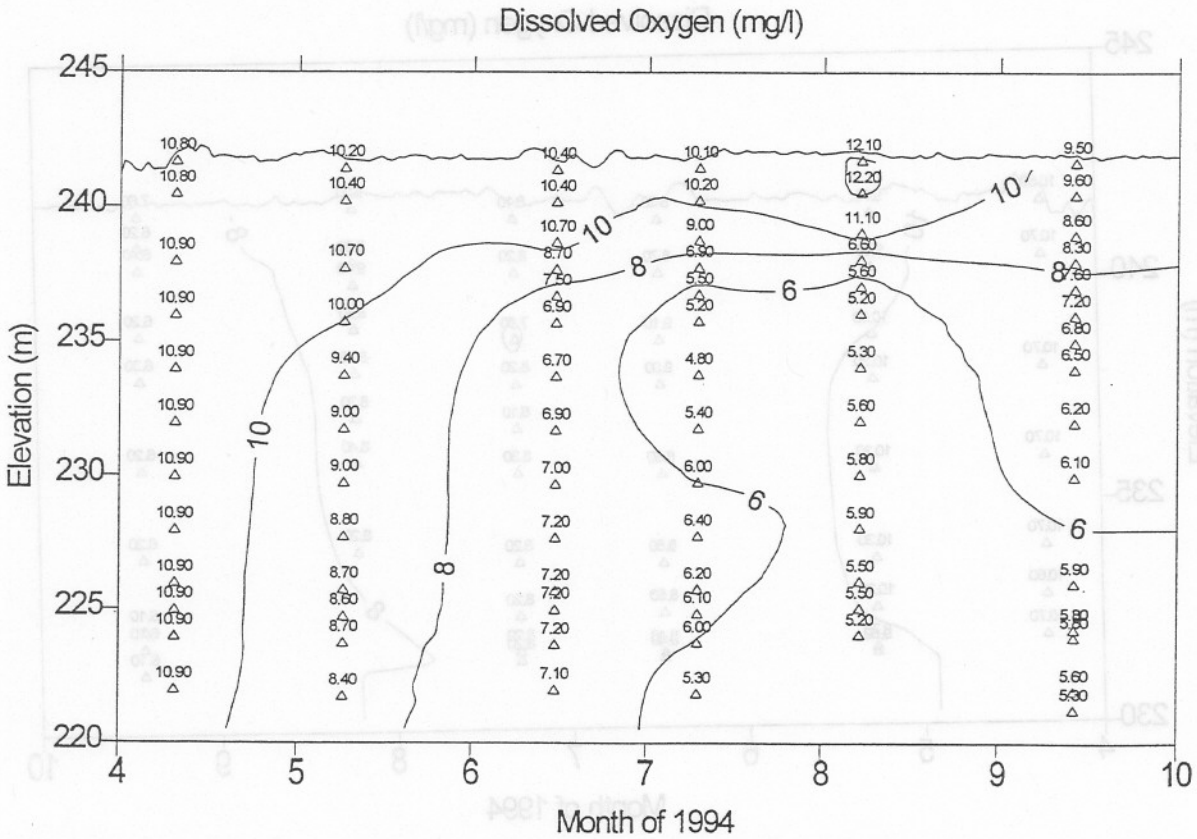
Tellico Reservoir - LTRM 15.0



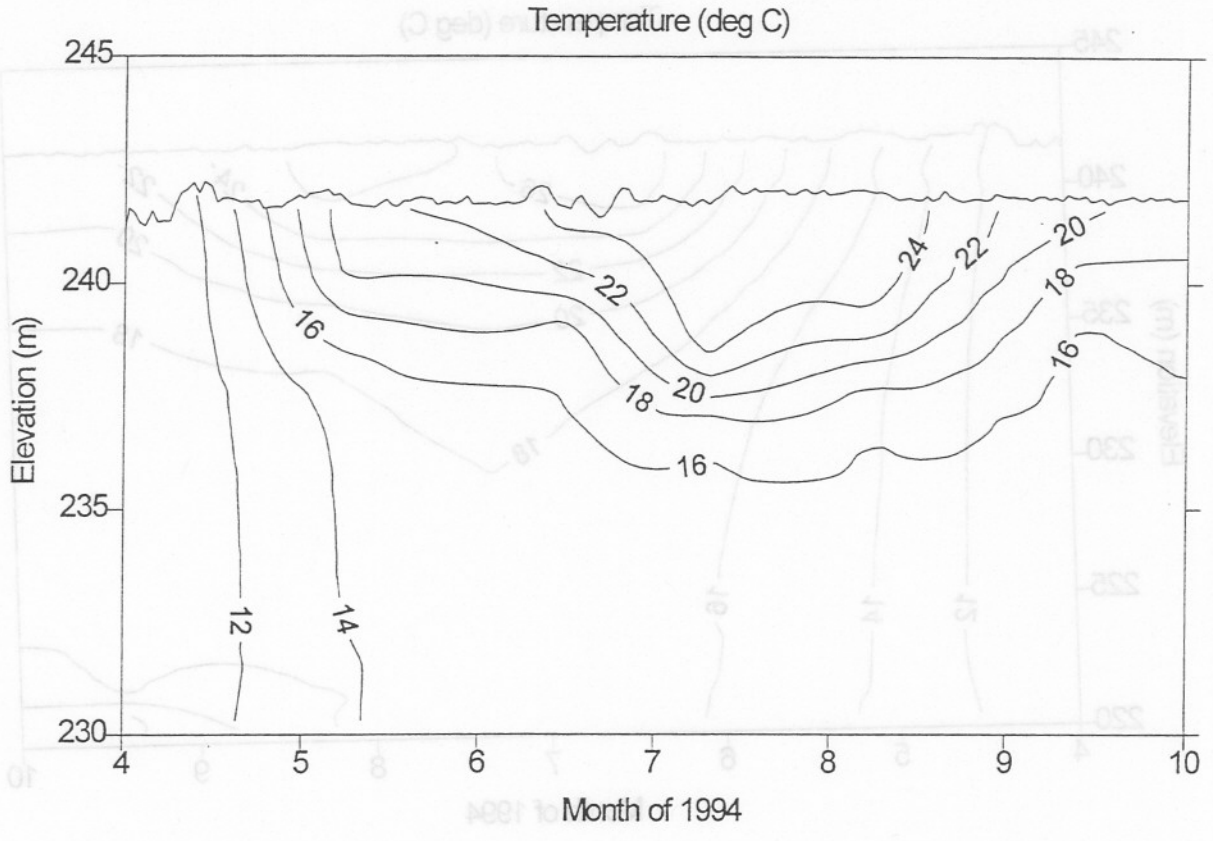


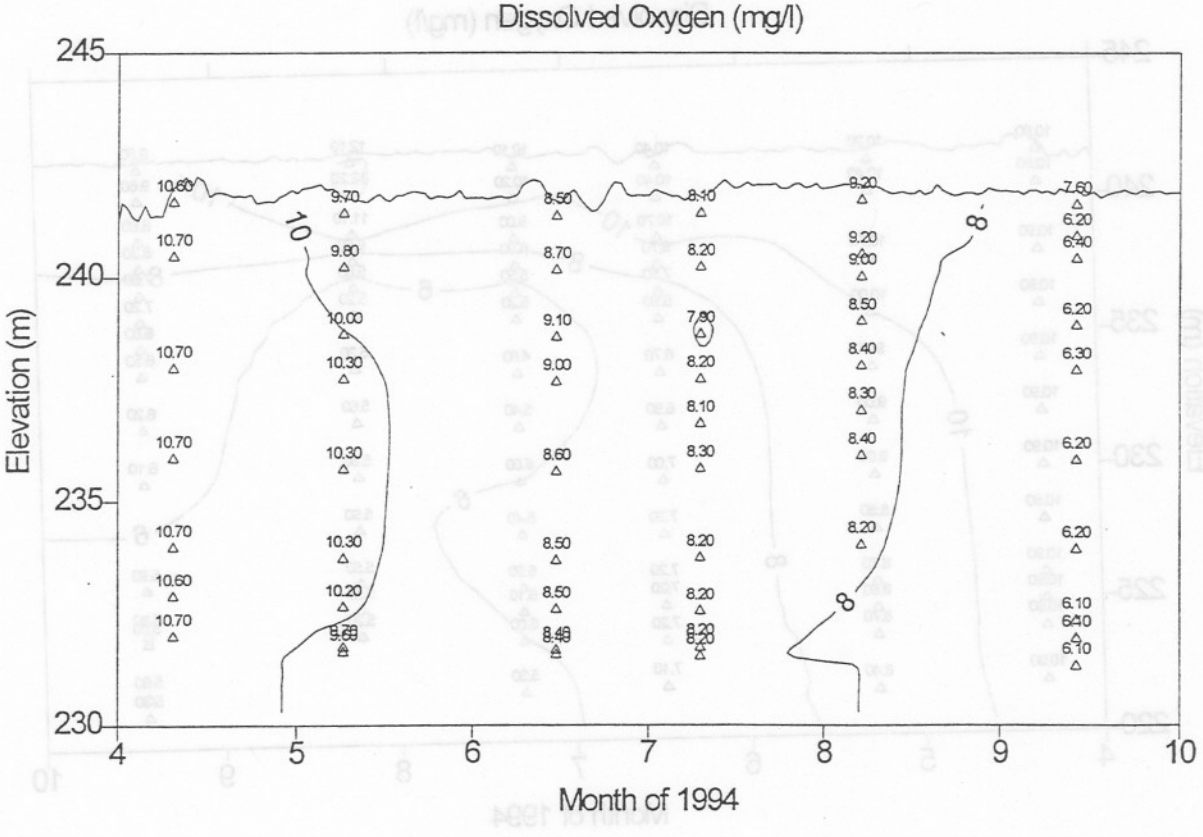
Melton Hill Reservoir - CRM 24.0



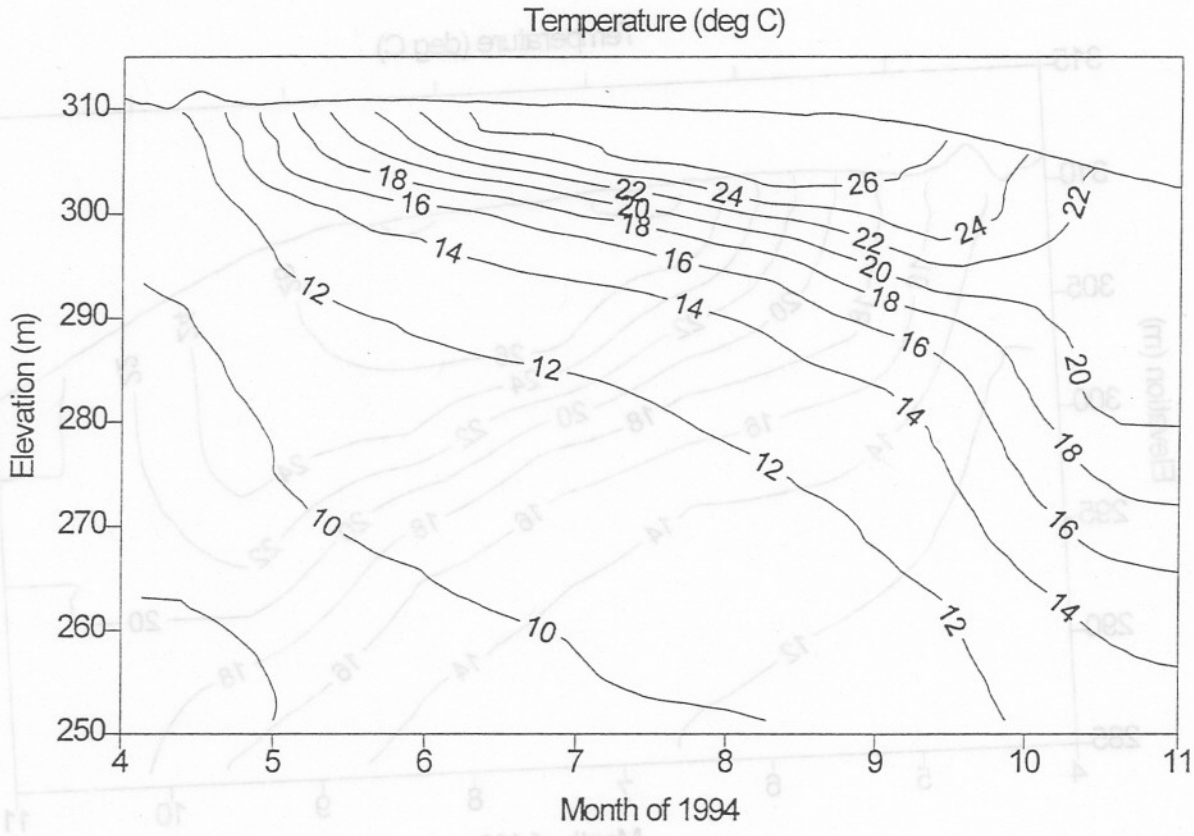


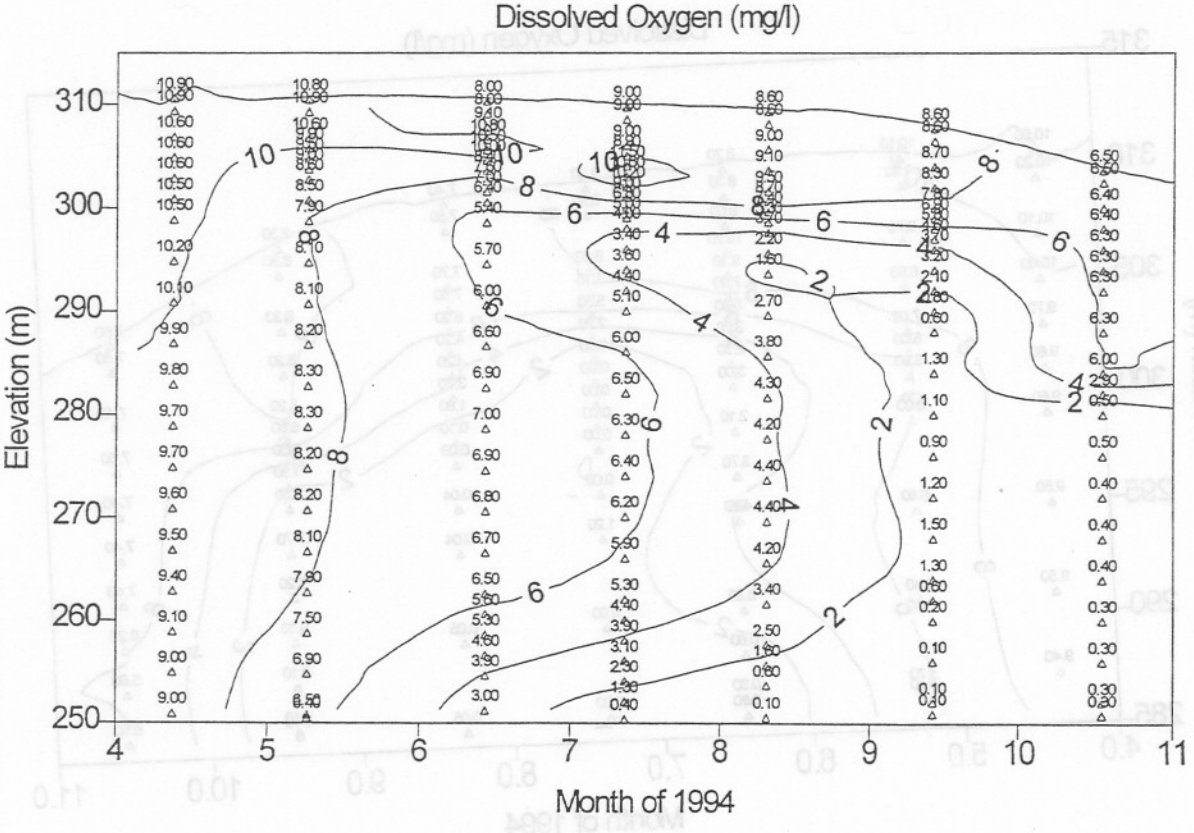
Melton Hill Reservoir - CRM 45.0



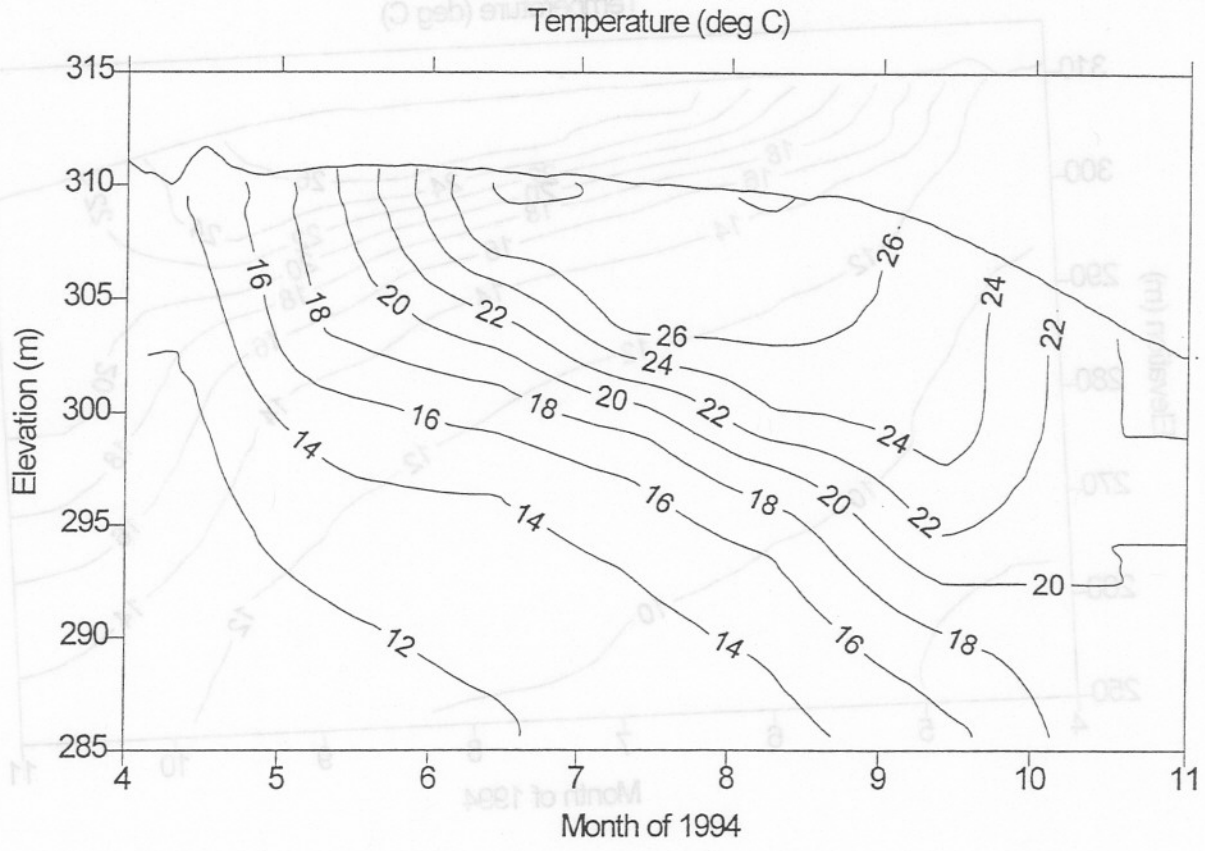


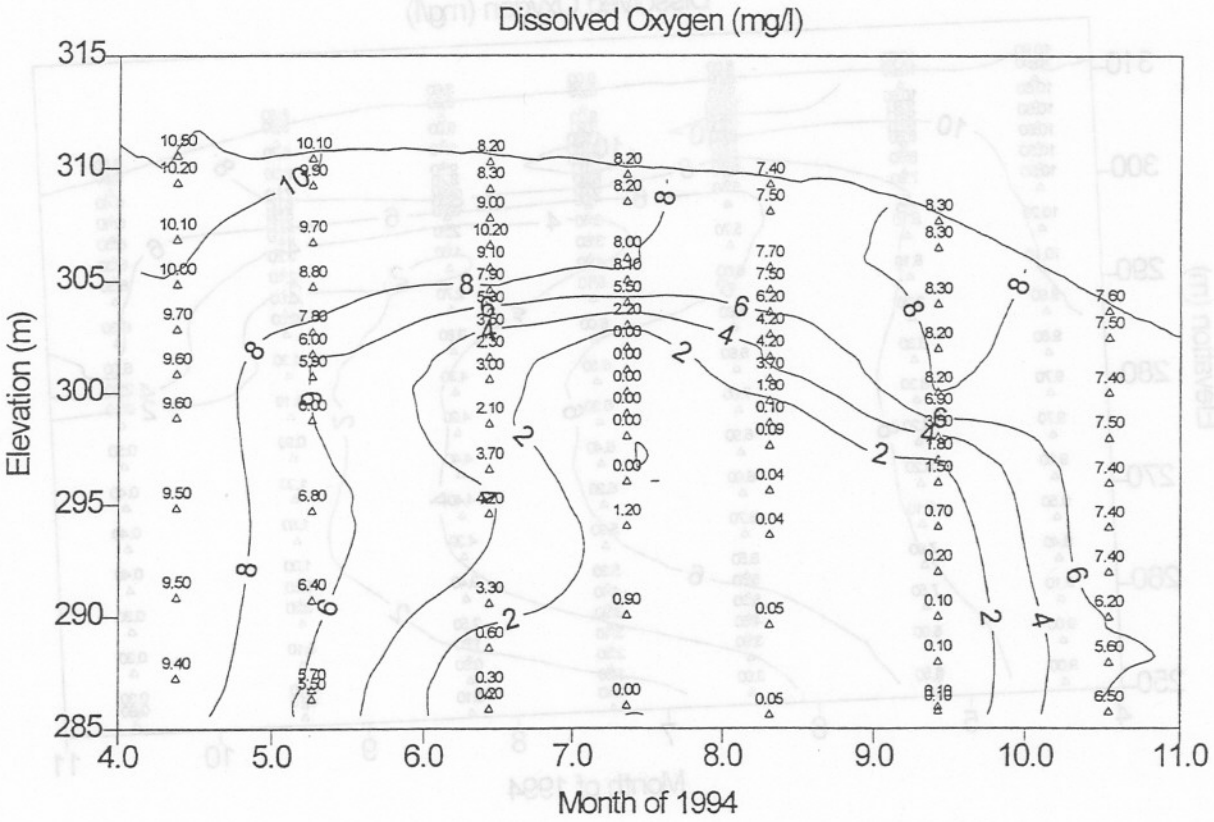
Norris Reservoir - CRM 80



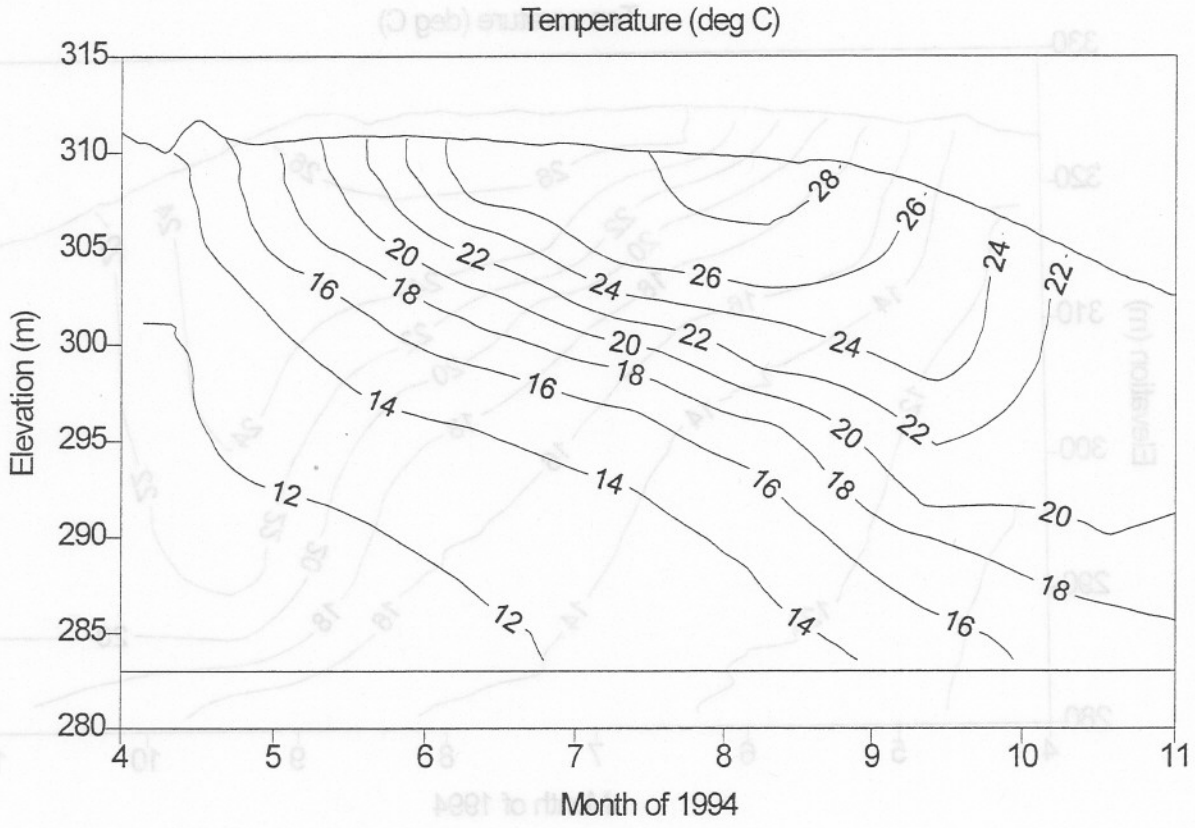


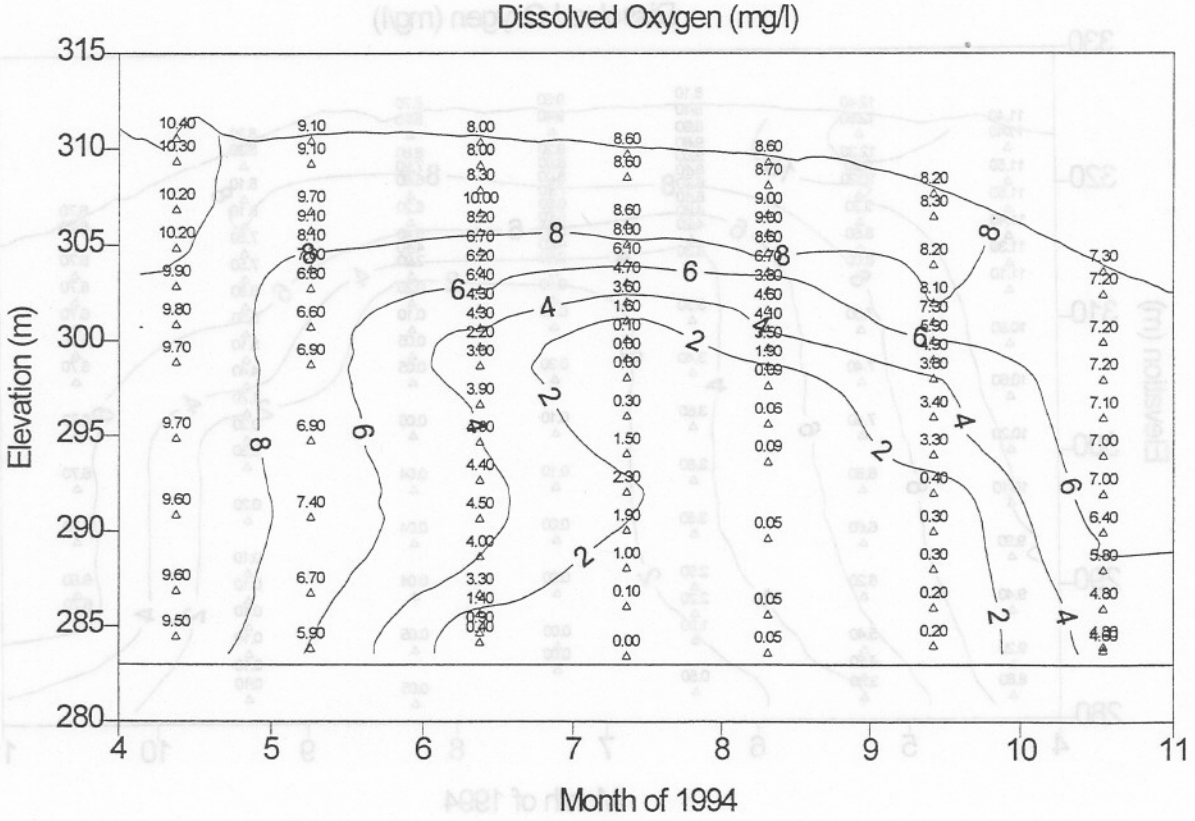
Norris Reservoir - CRM 125



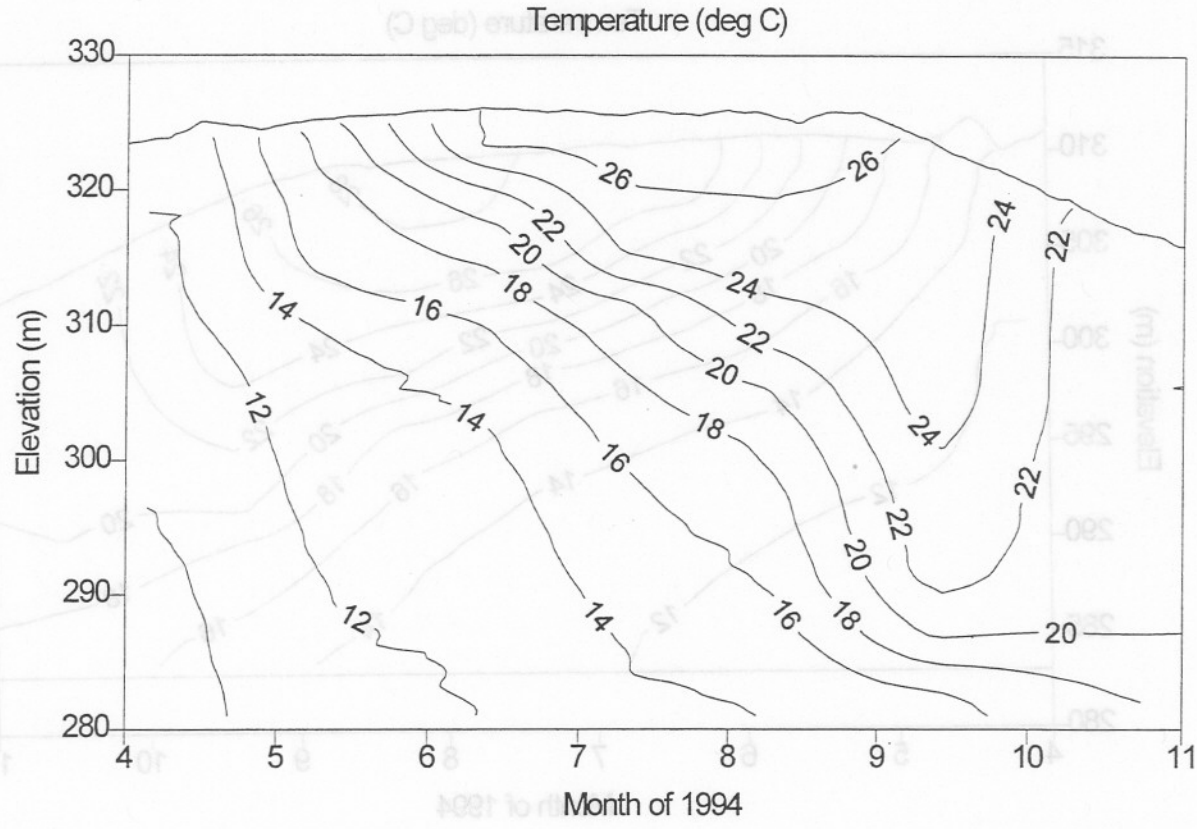


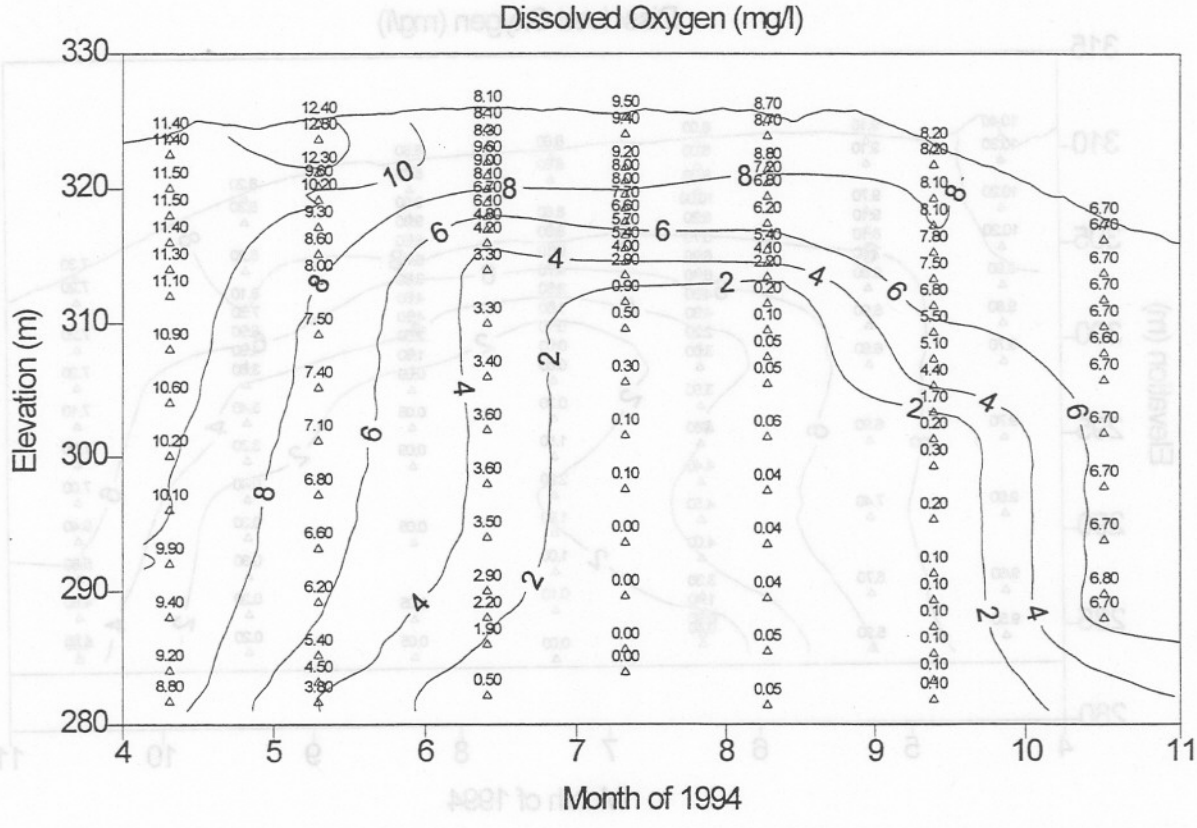
Norris Reservoir - PRM 30



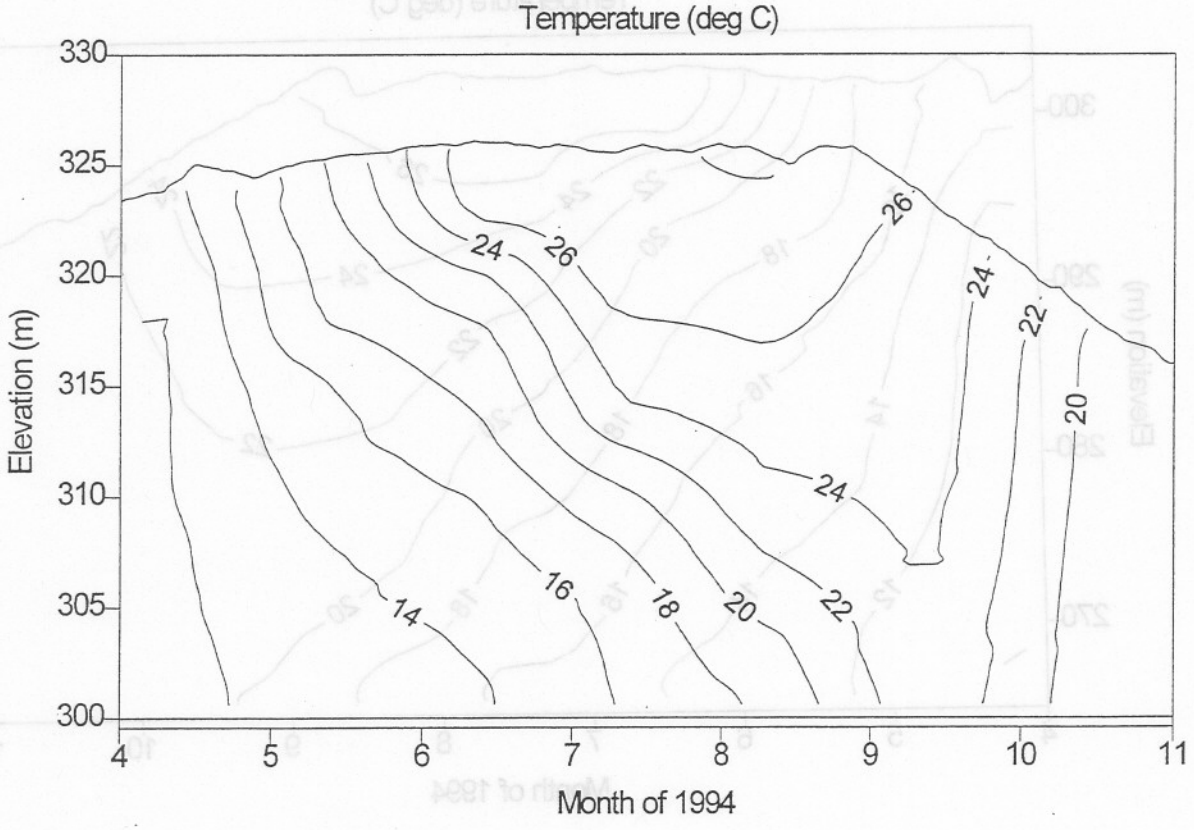


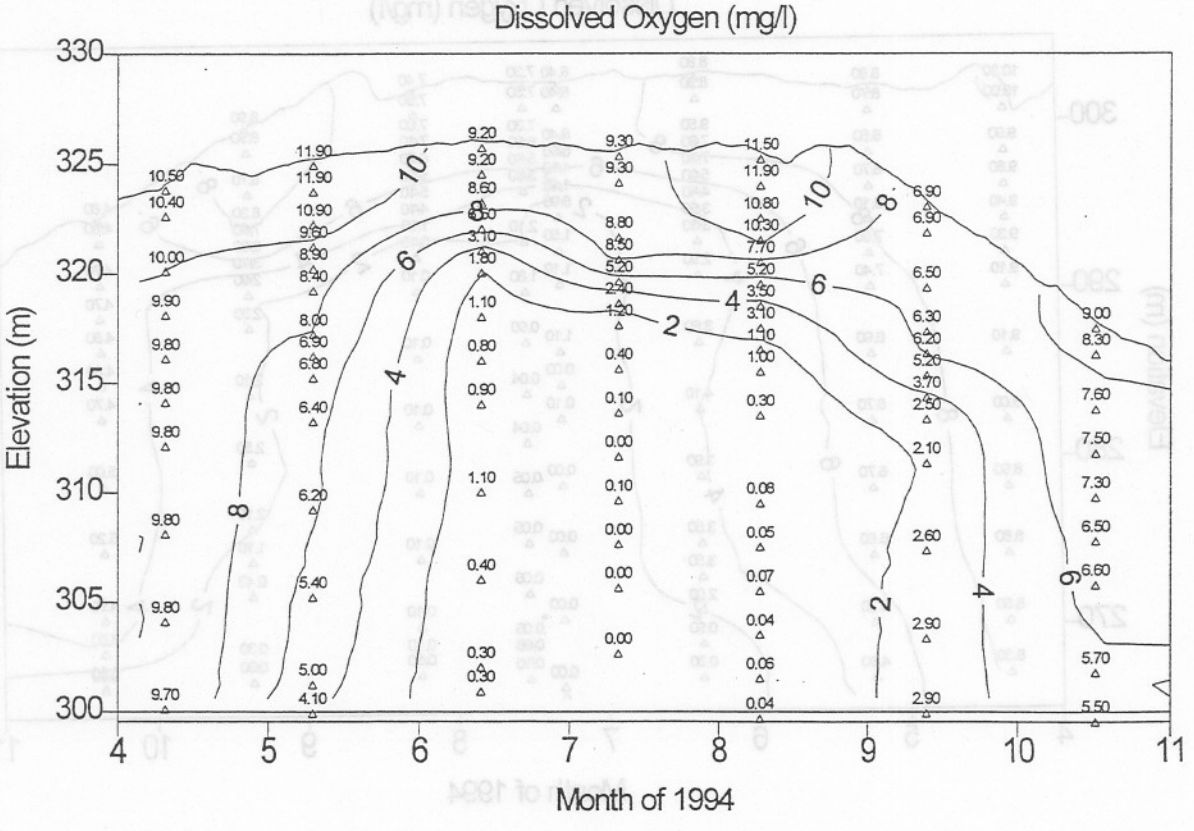
Cherokee Reservoir - HRM 53



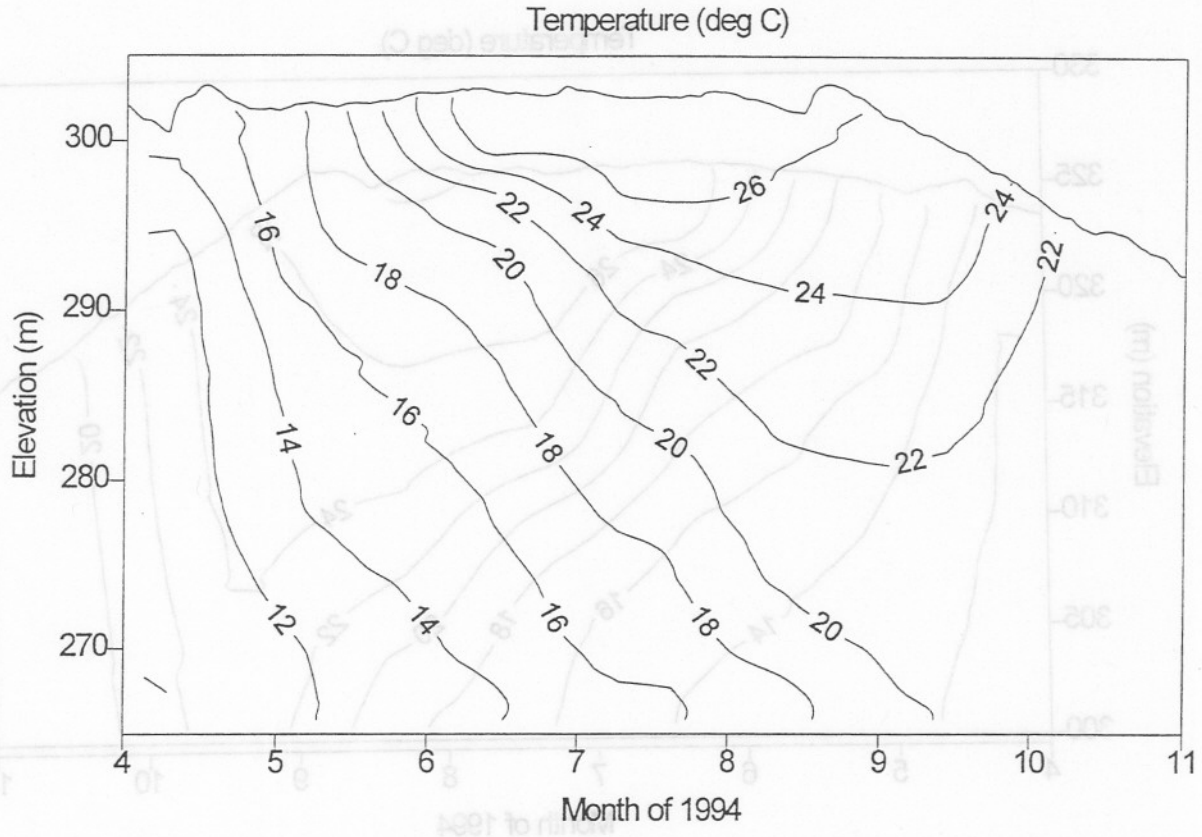


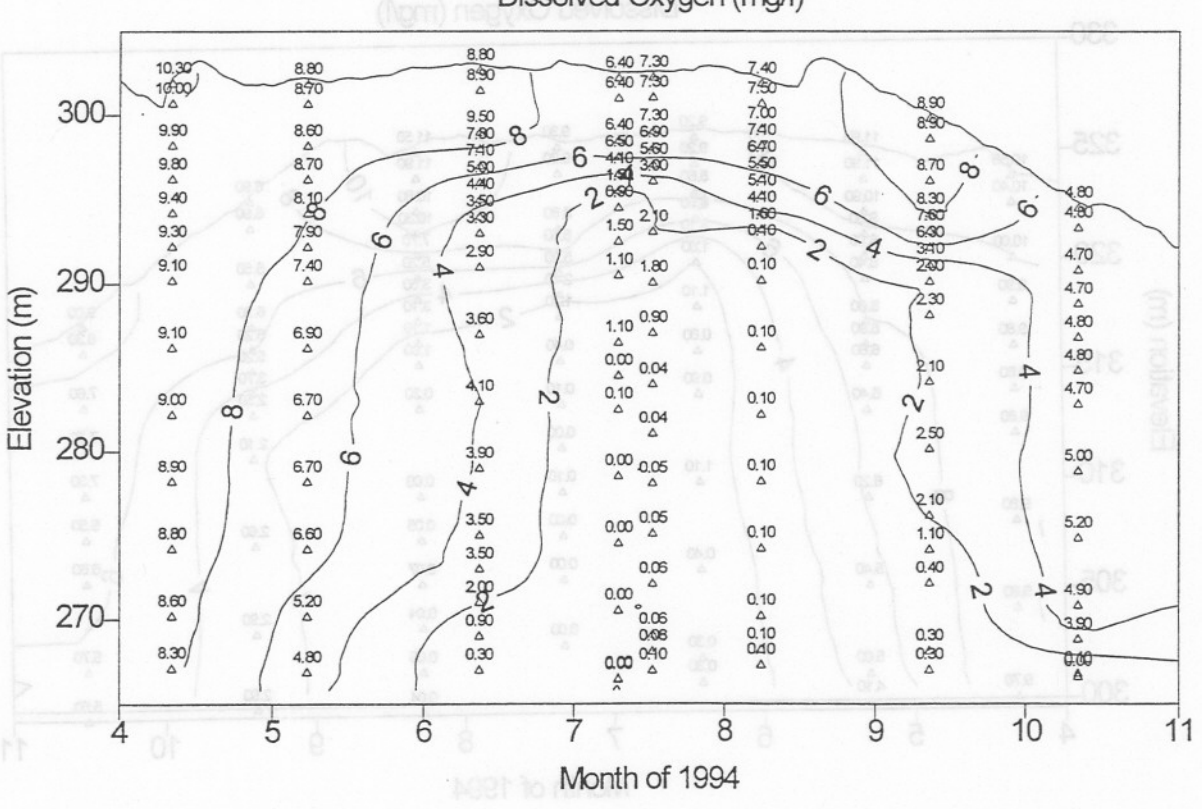
Cherokee Reservoir - HRM 76



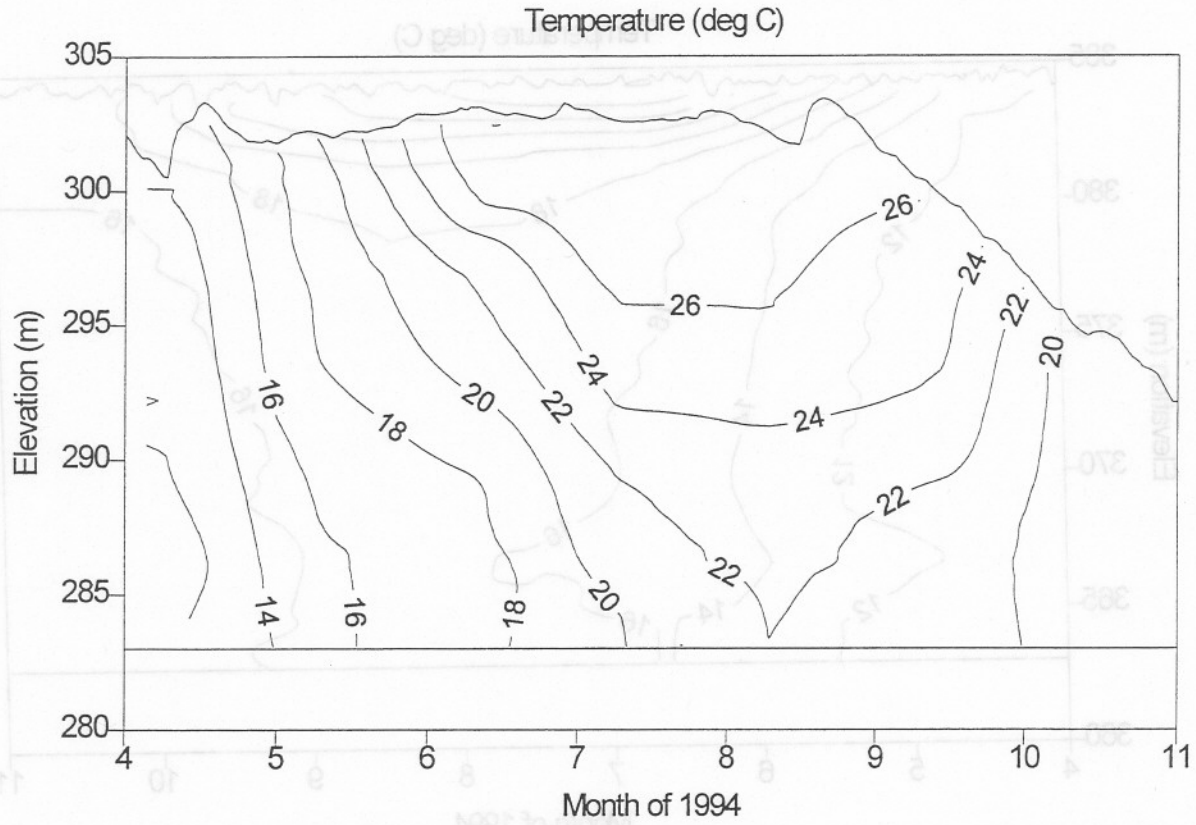


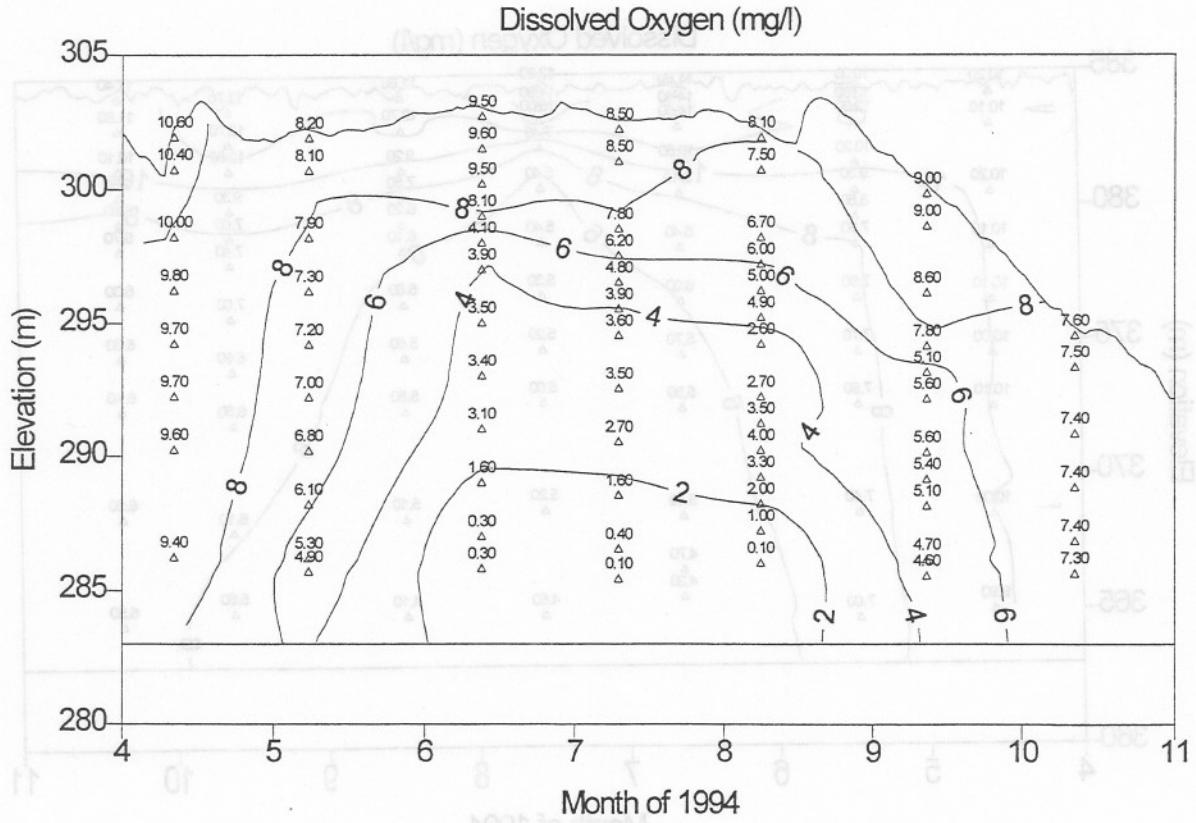
Douglas Reservoir - FBRM 33



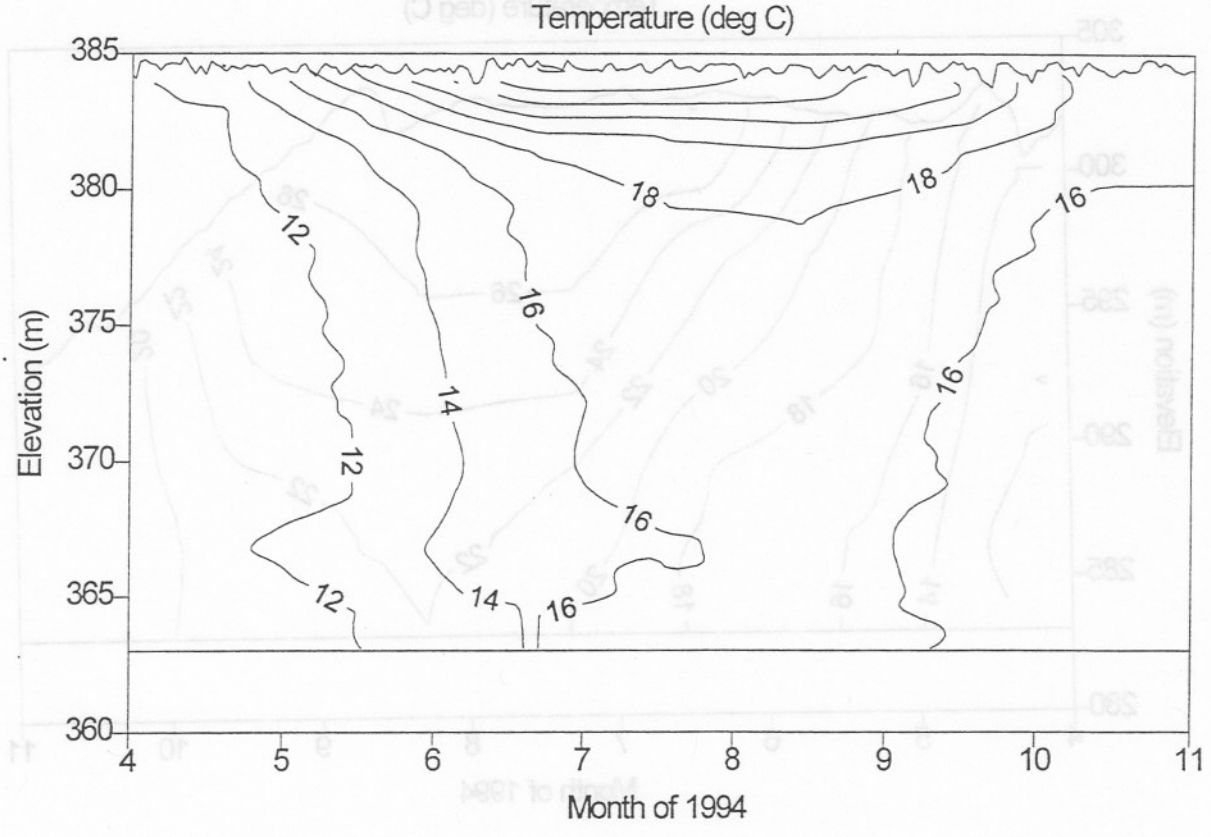


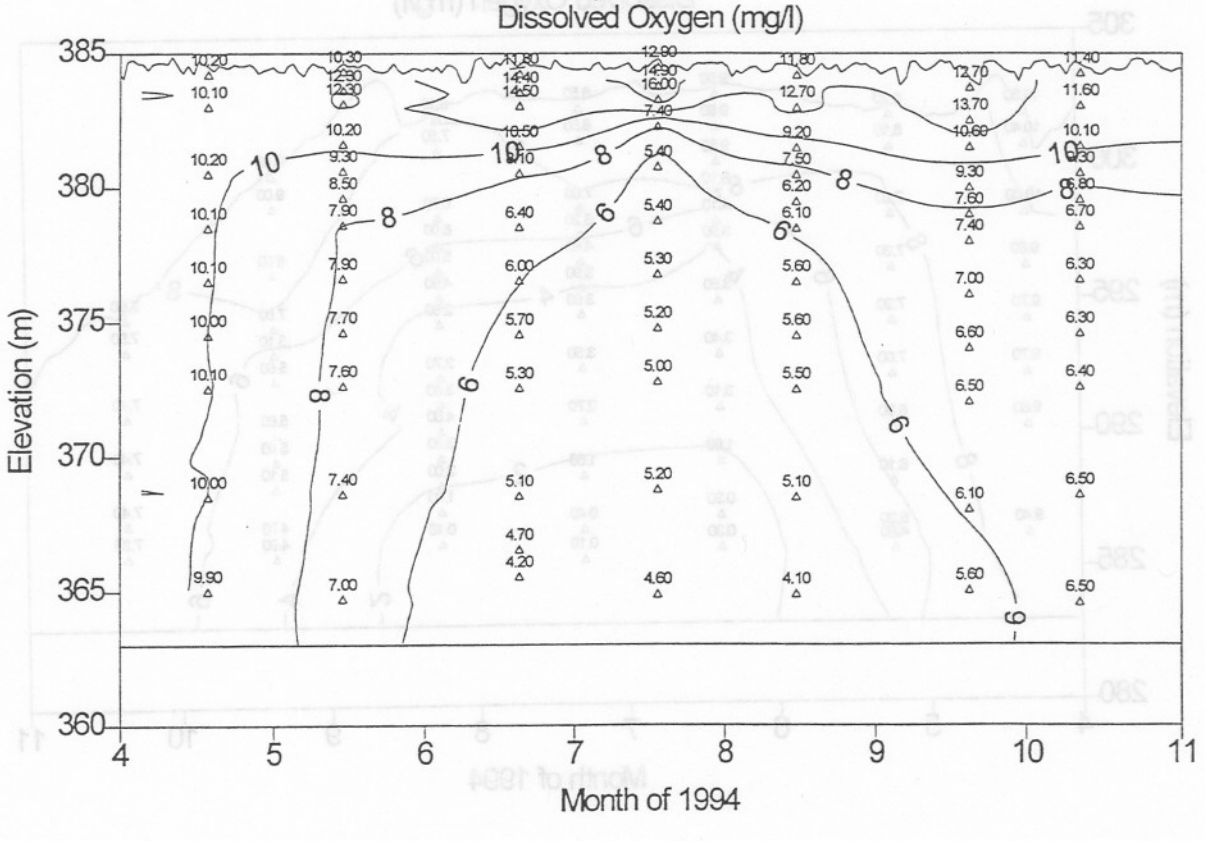
Douglas Reservoir - FBRM 51



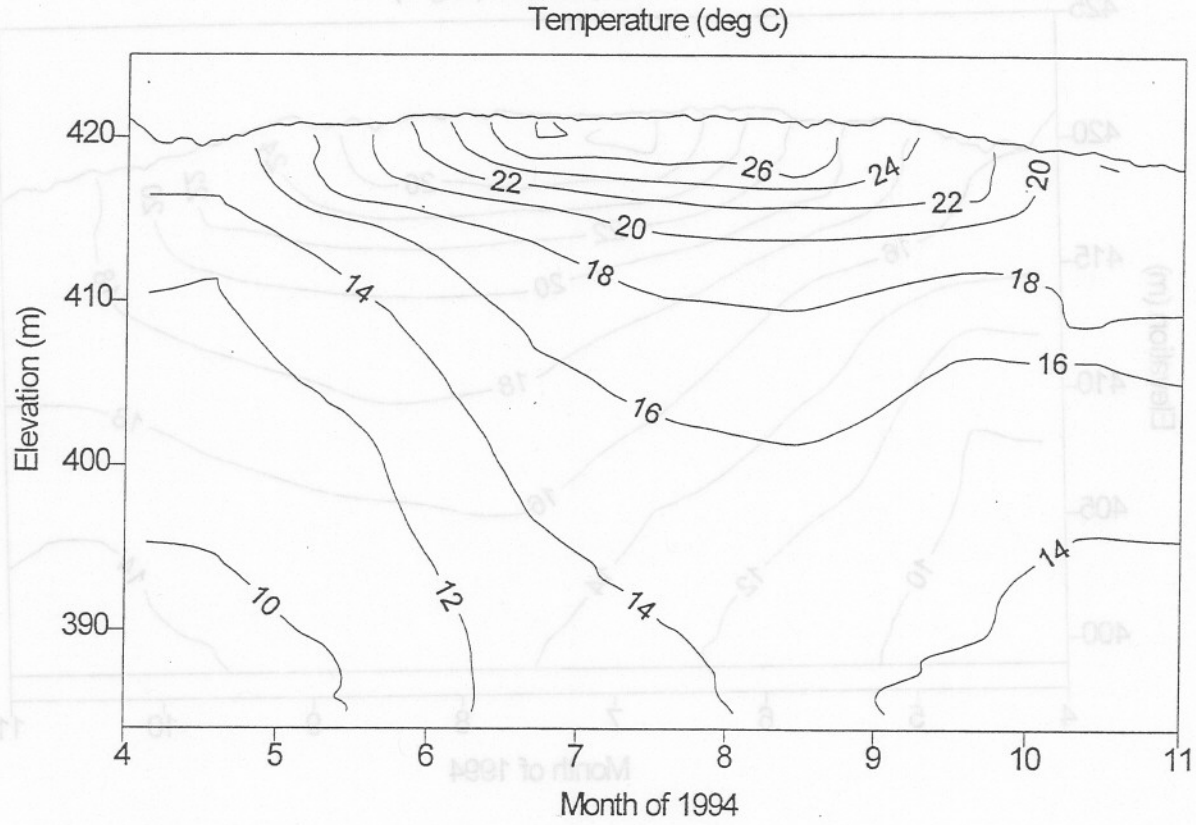


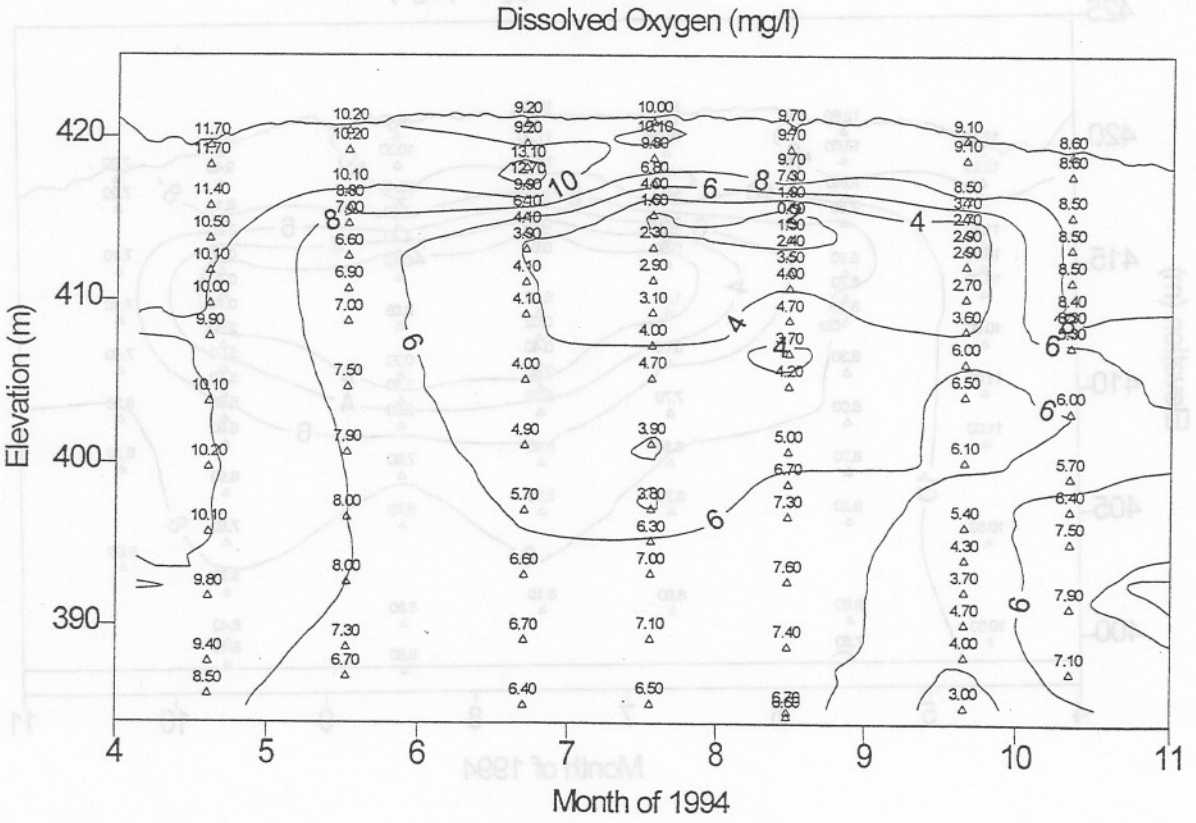
Fort Patrick Henry Reservoir - SFHRM 8.7



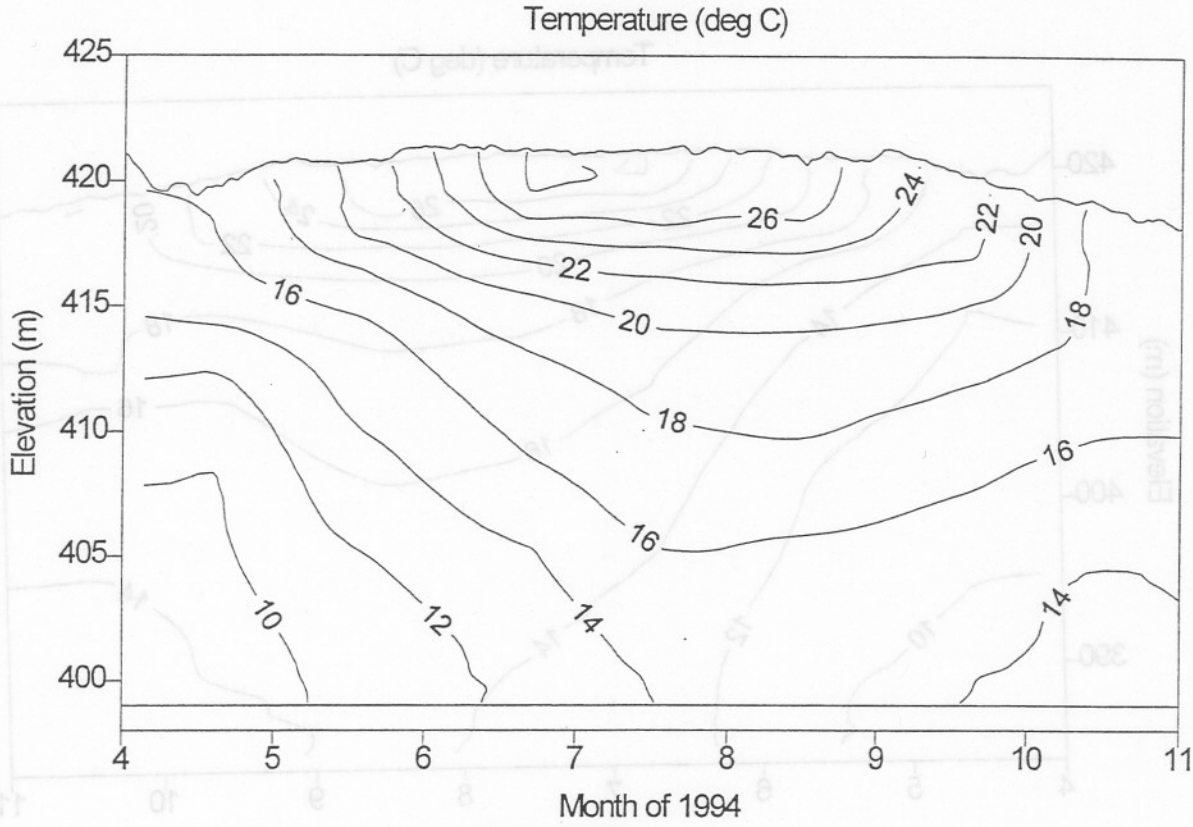


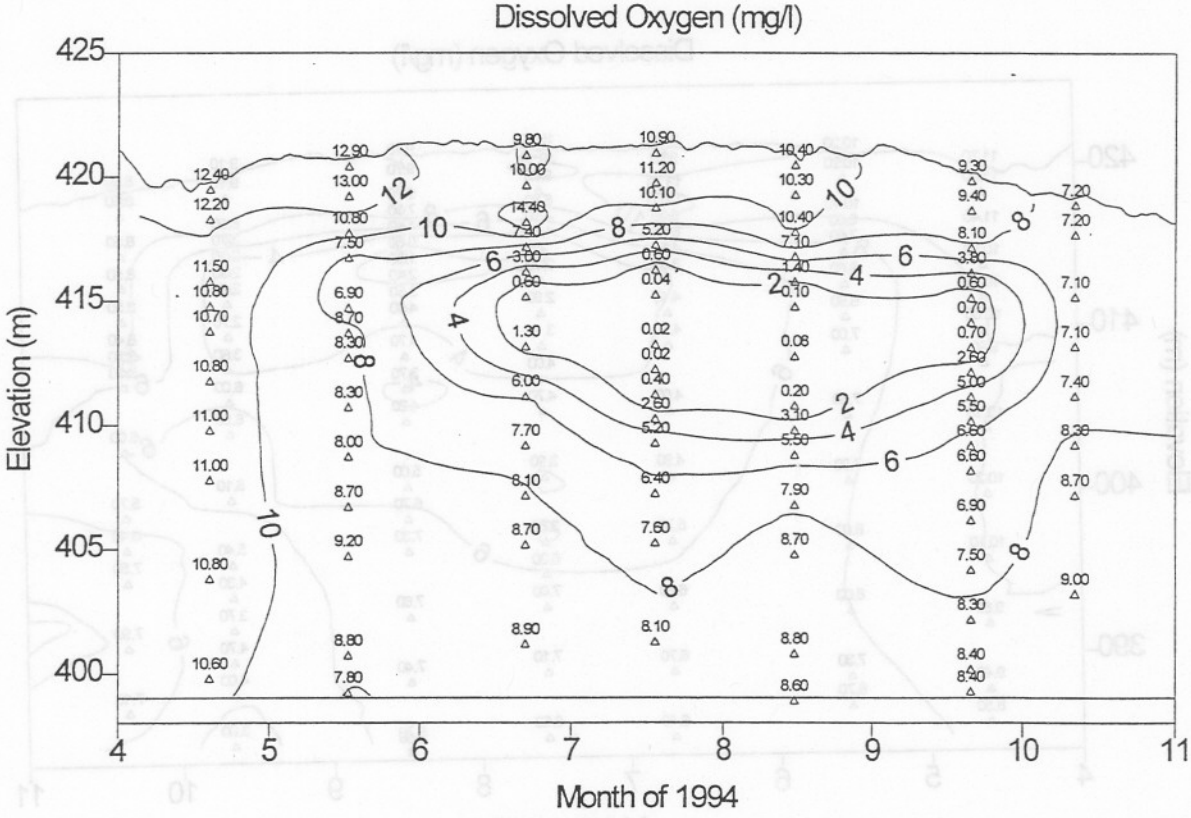
Boone Reservoir - SFHRM 19



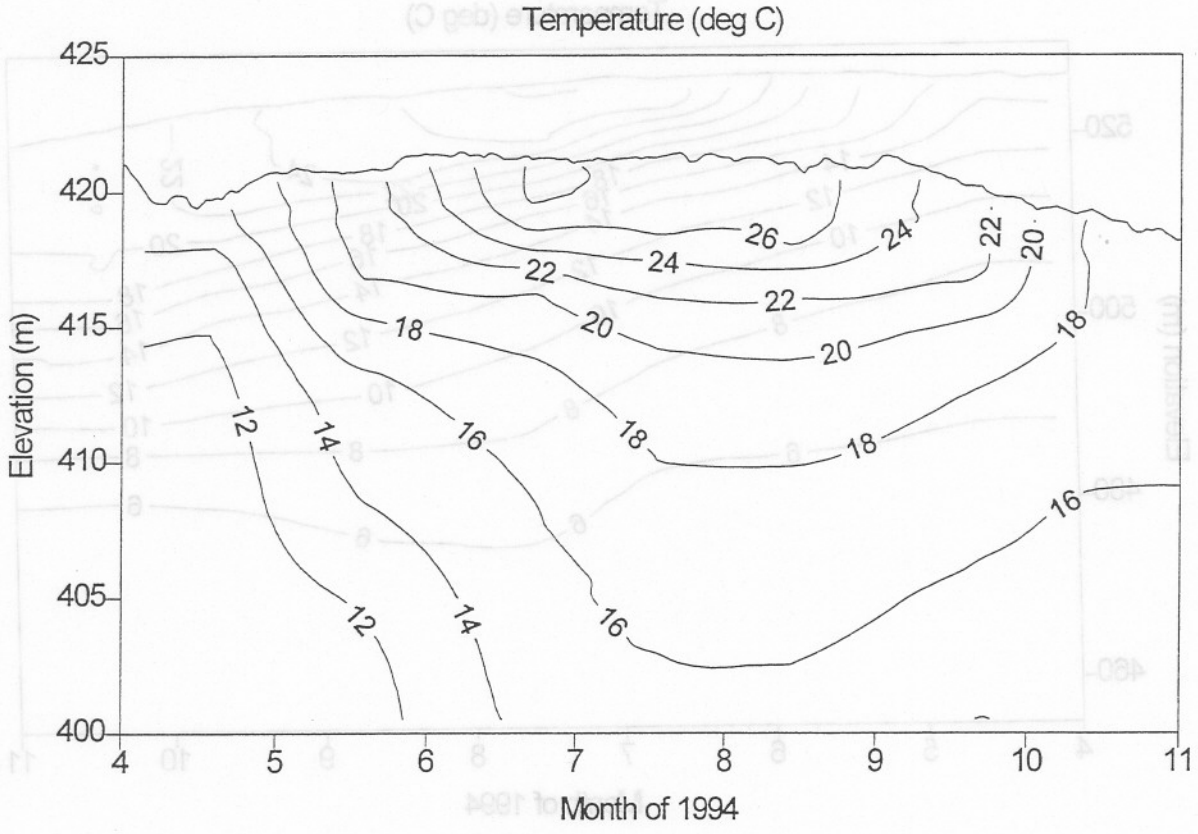


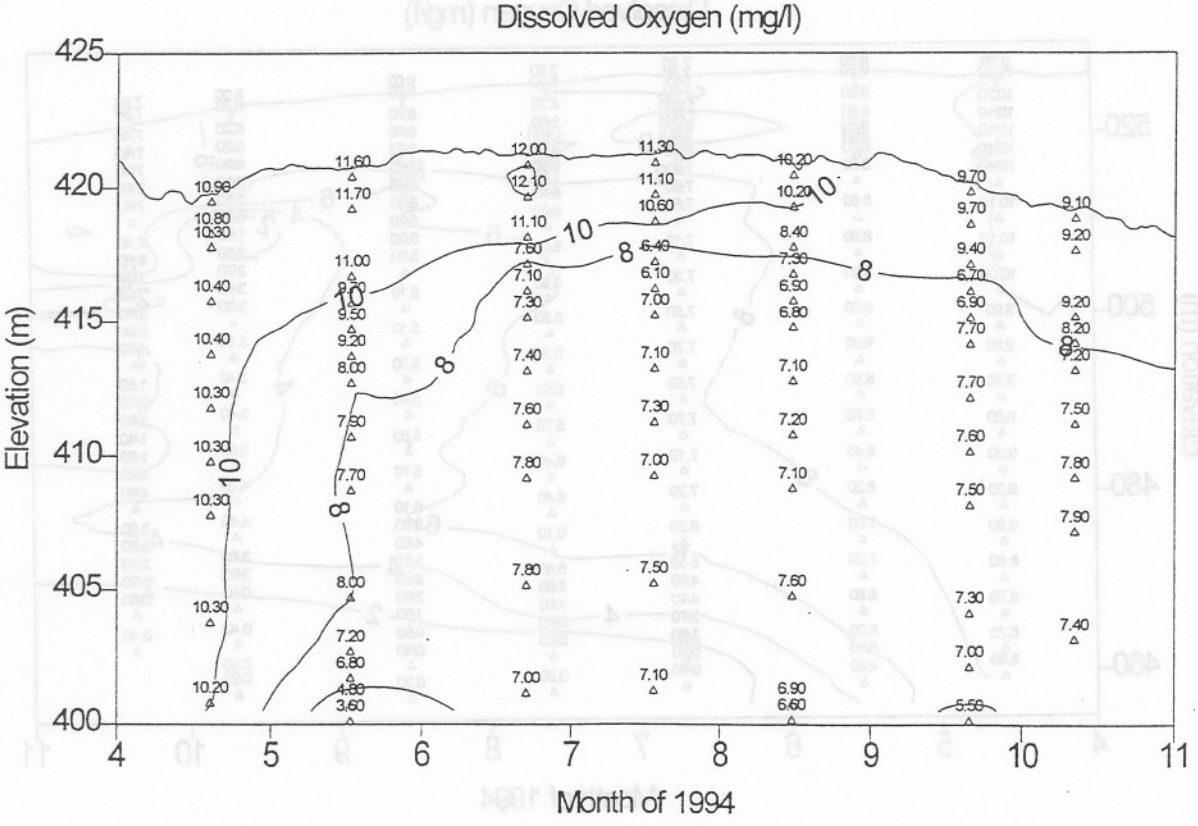
Boone Reservoir - SFHRM 27.0



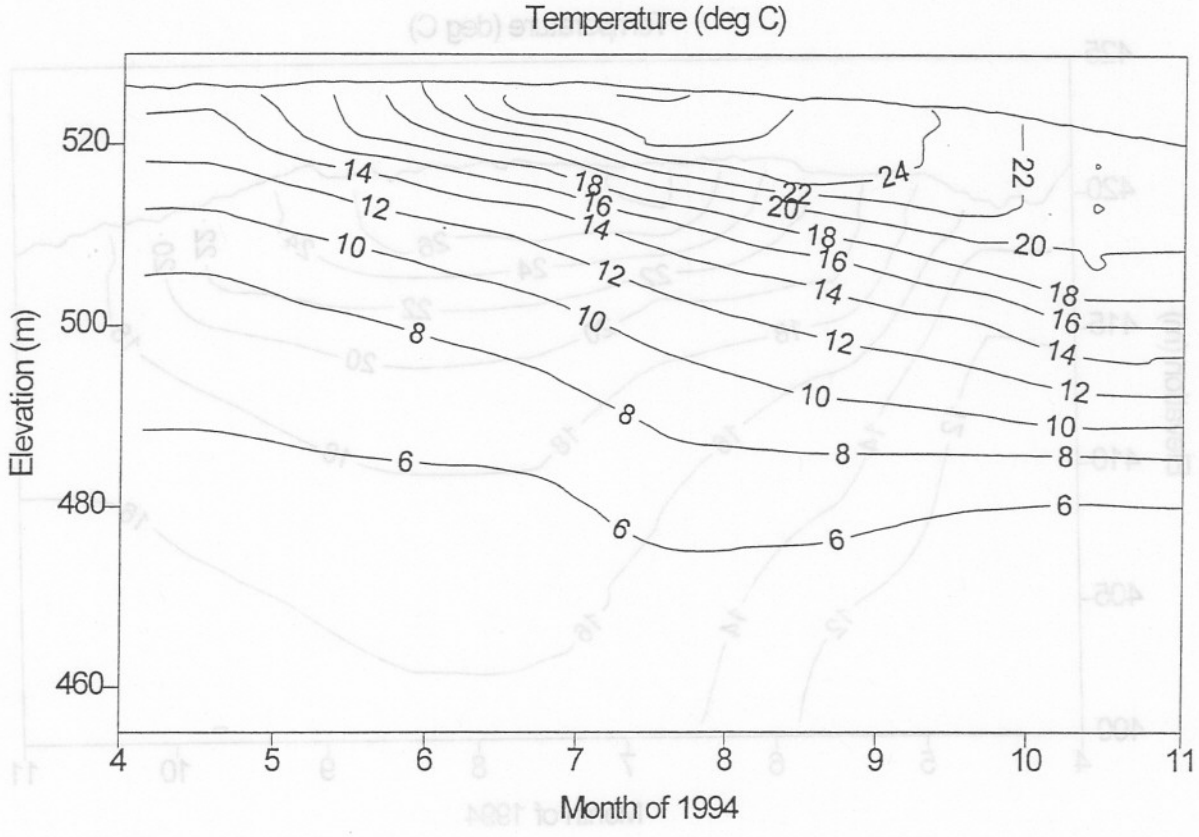


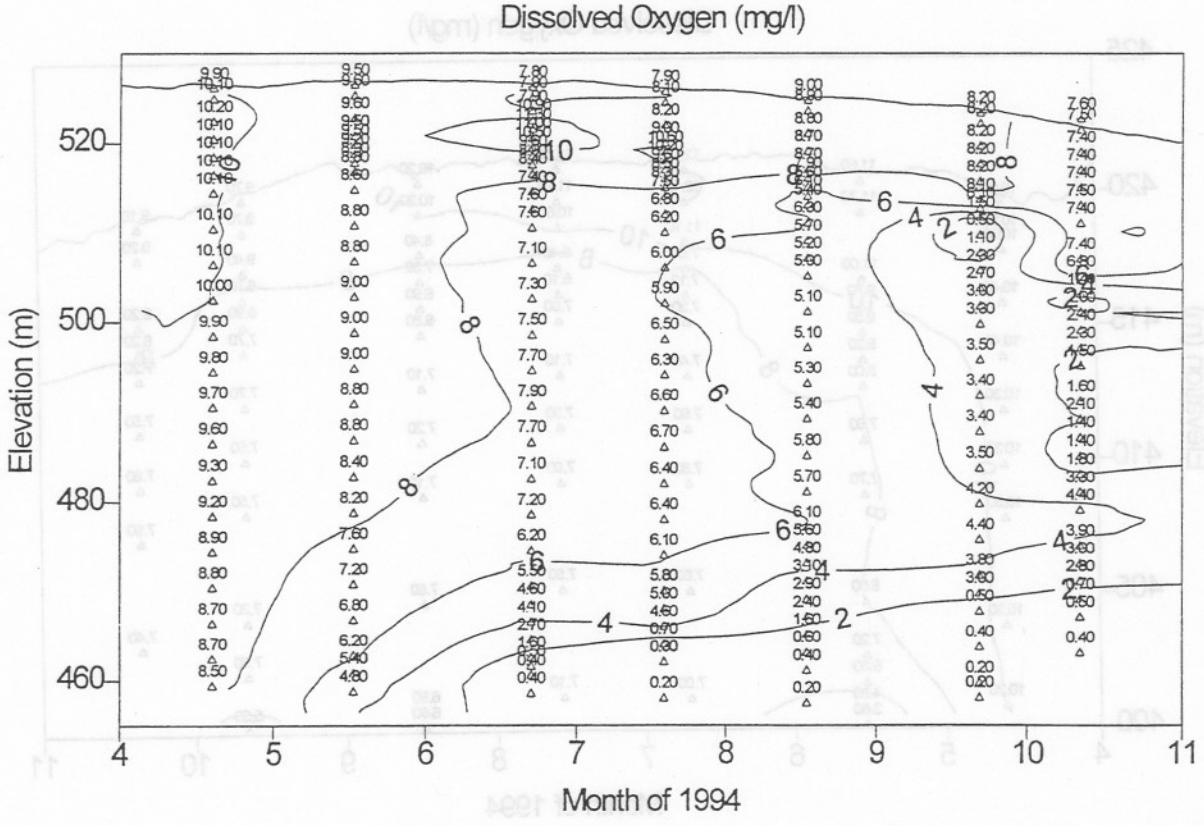
Boone Reservoir - WRM 6.5



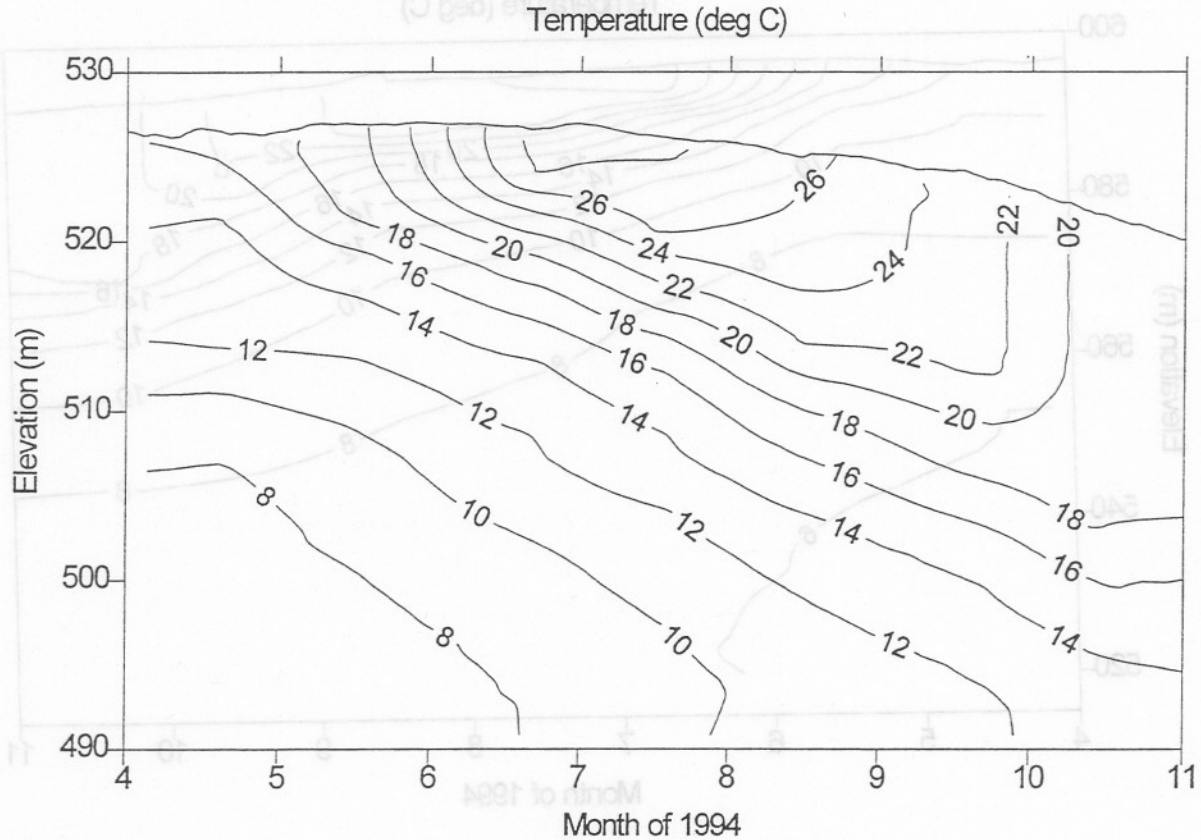


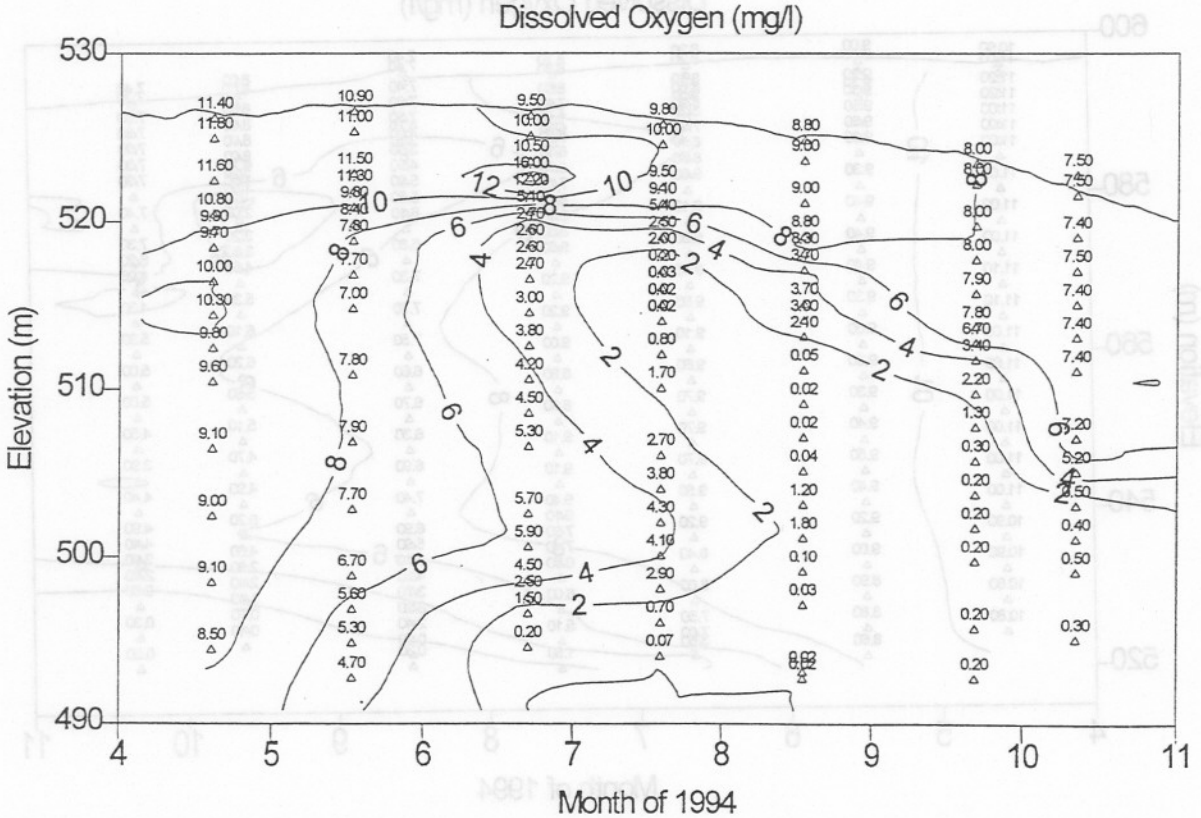
South Holston Reservoir - SFHRM 51



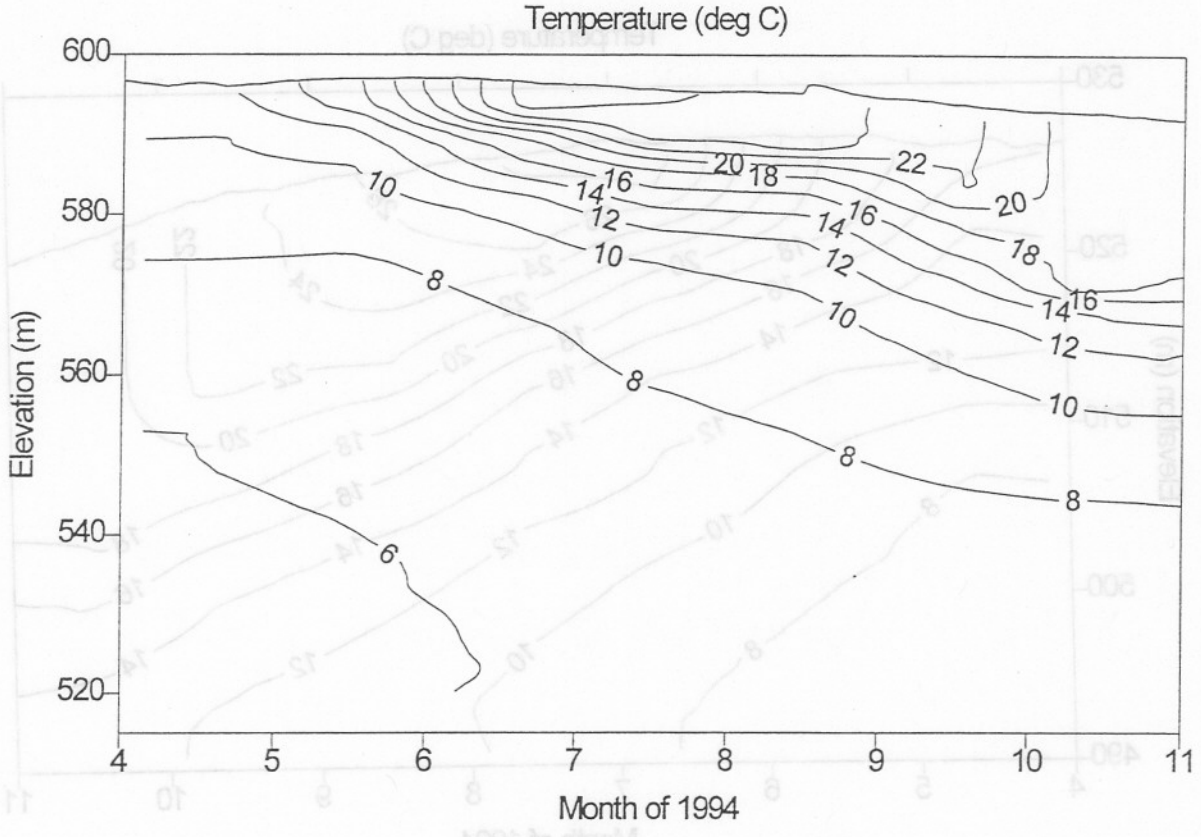


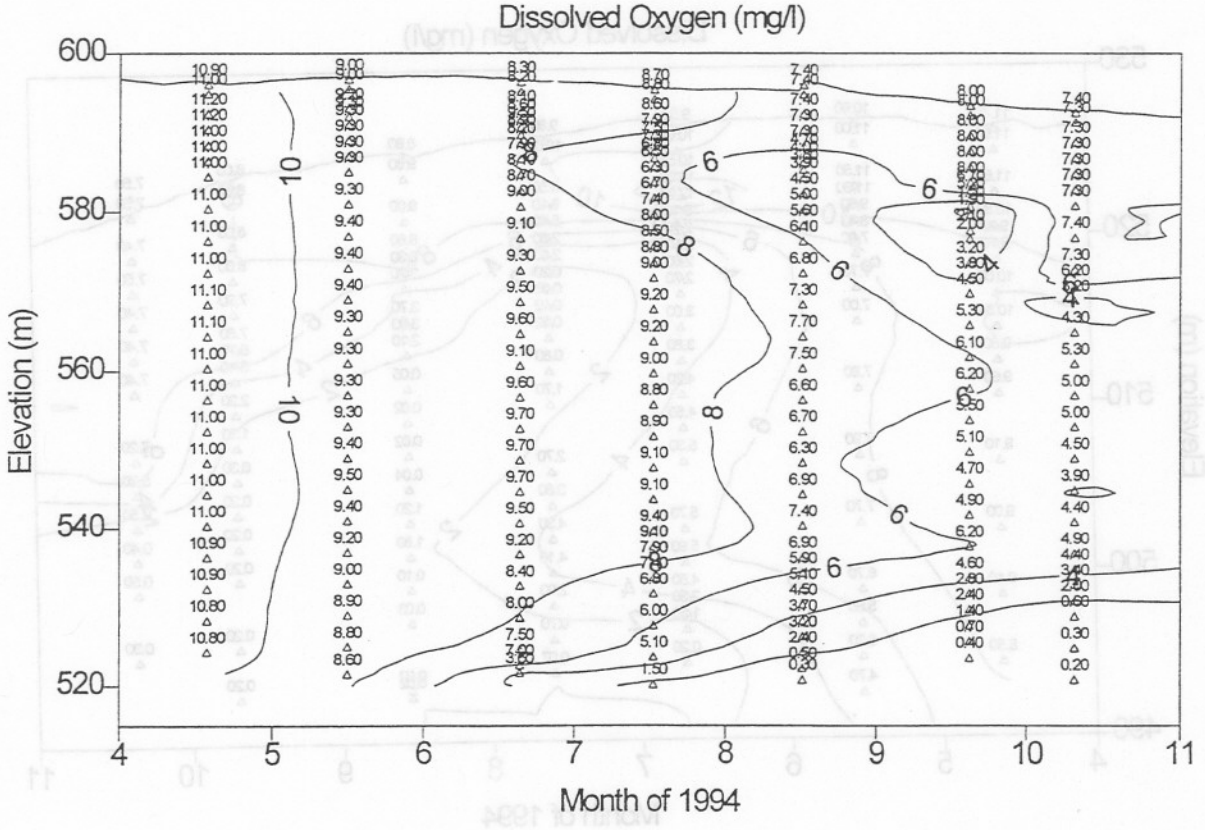
South Holston Reservoir - SFHRM 62.5



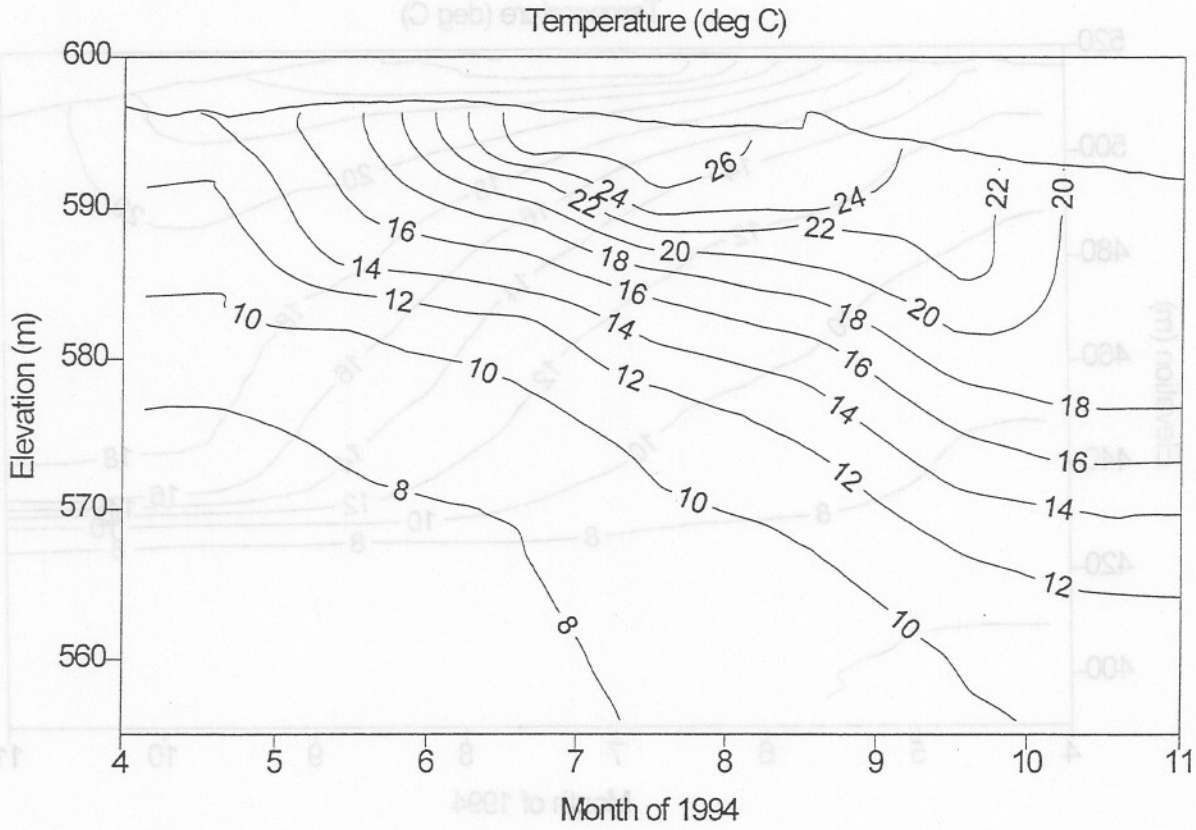


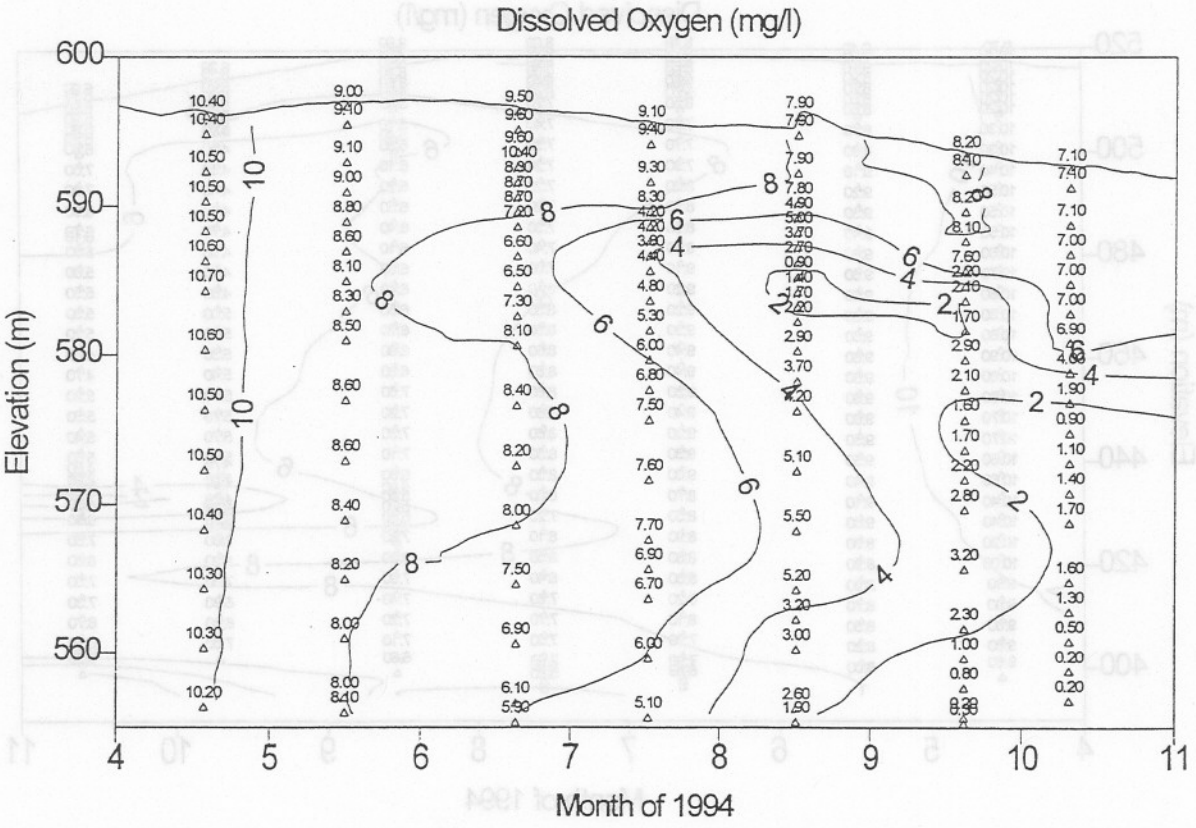
Watauga Reservoir - WRM 37.4



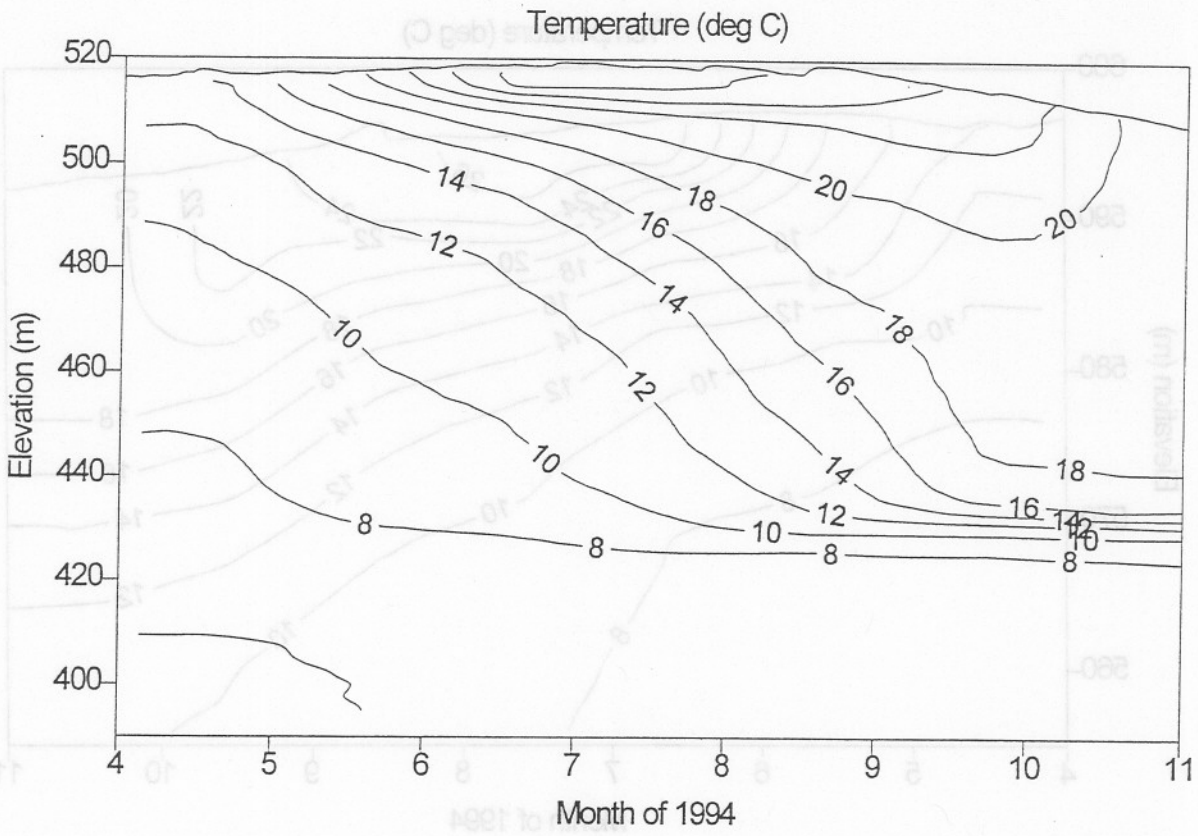


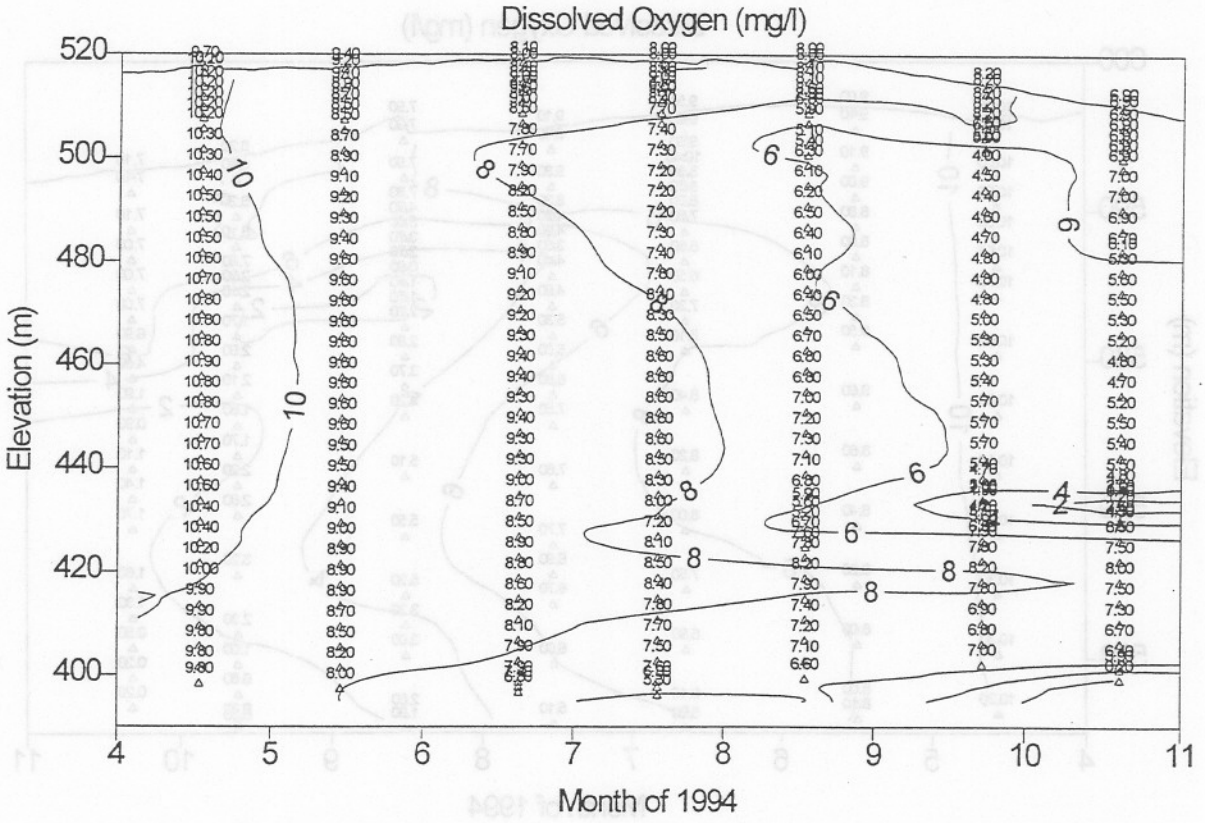
Watauga Reservoir - WRM 45.5



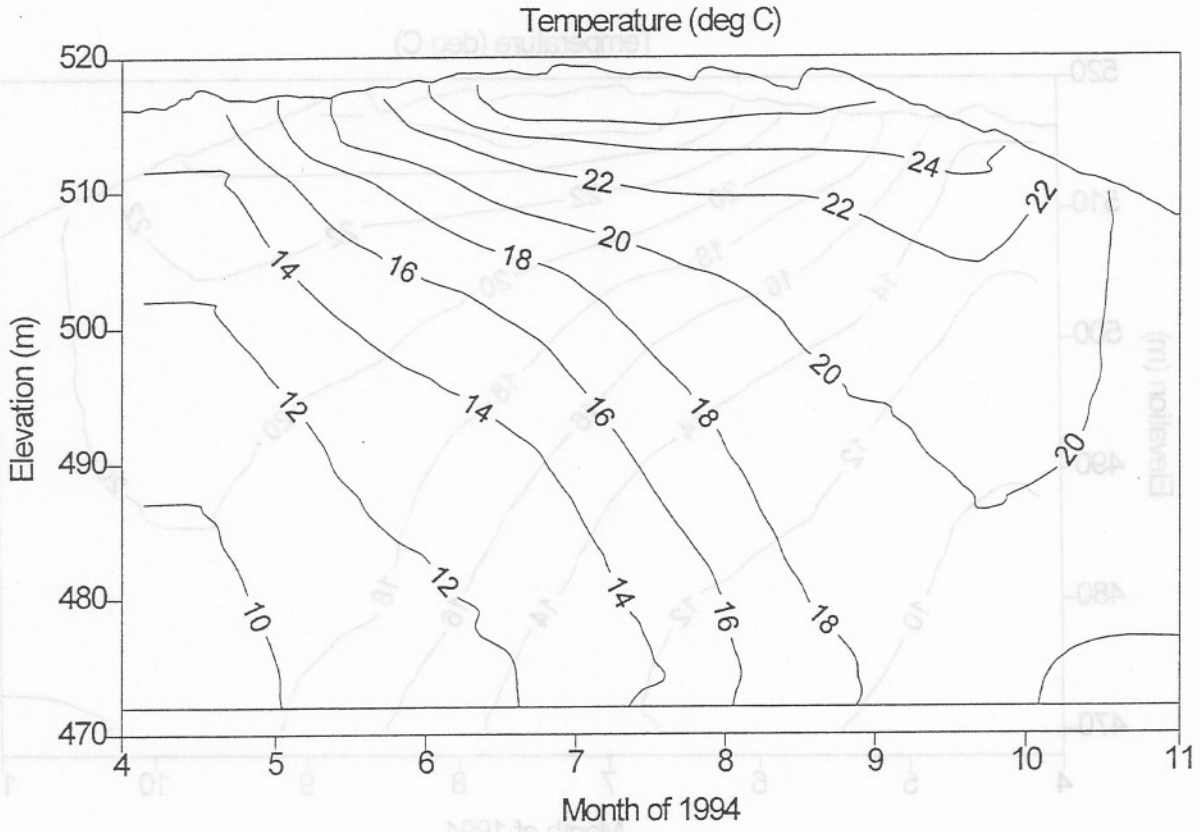


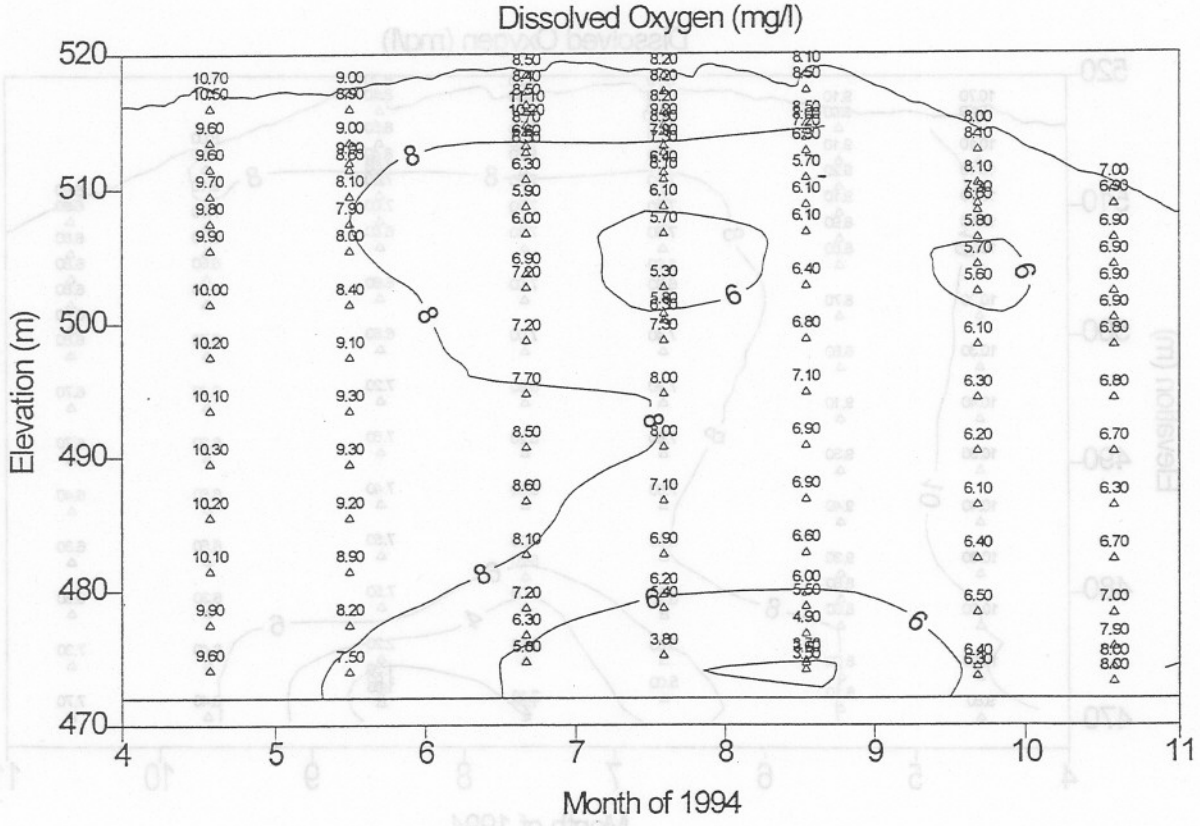
Fontana Reservoir - LTRM 62



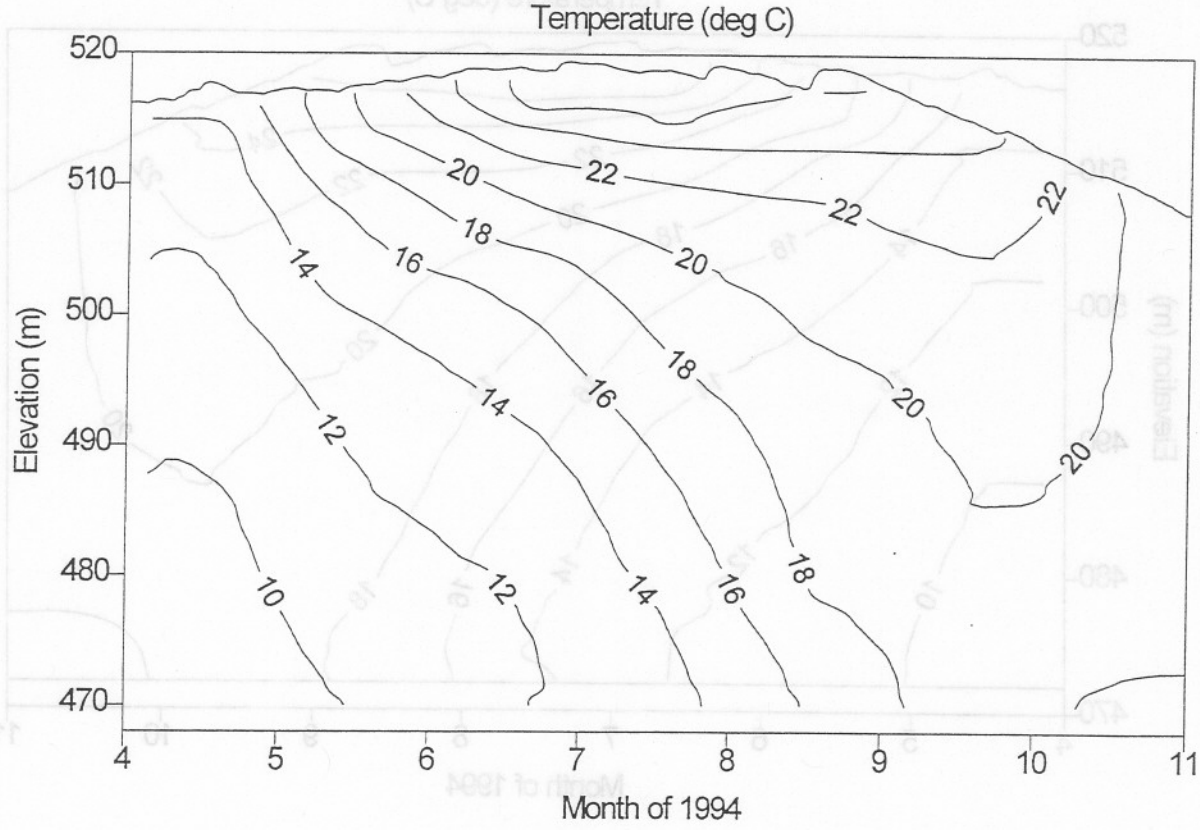


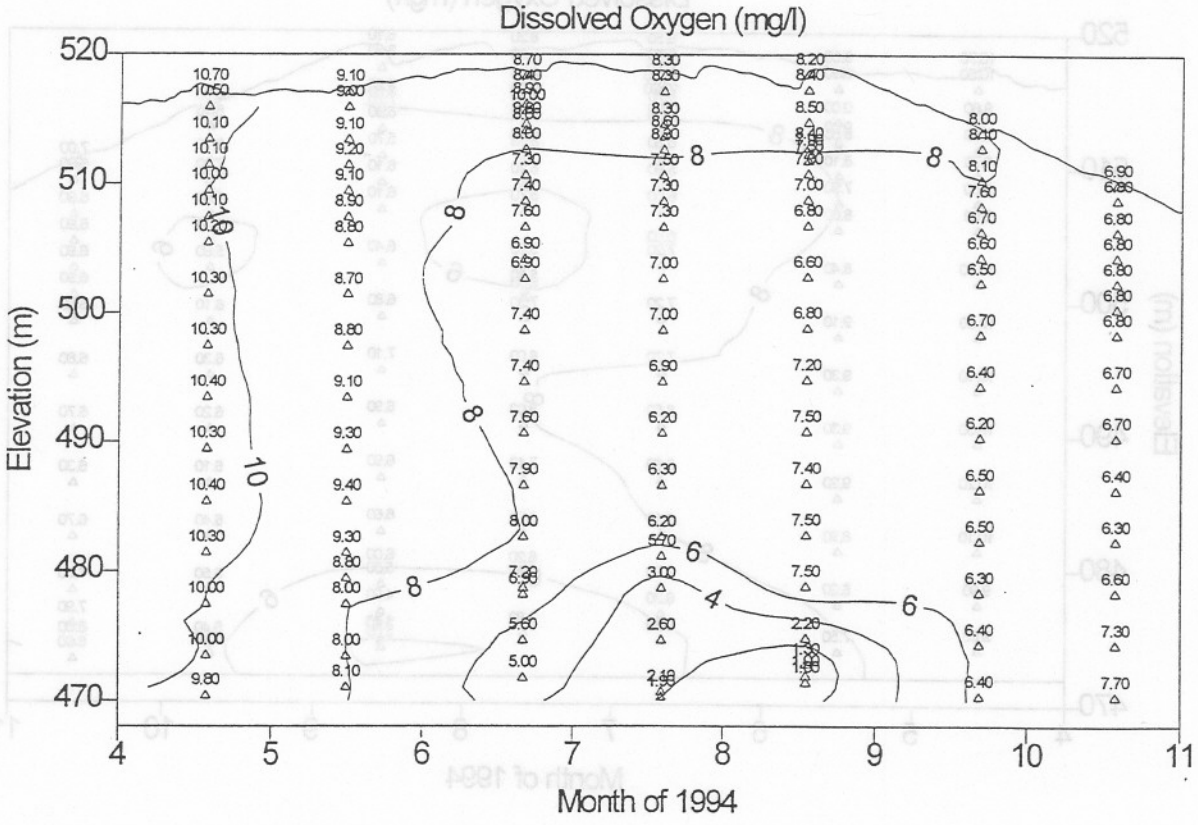
Fontana Reservoir - LTRM 81.5



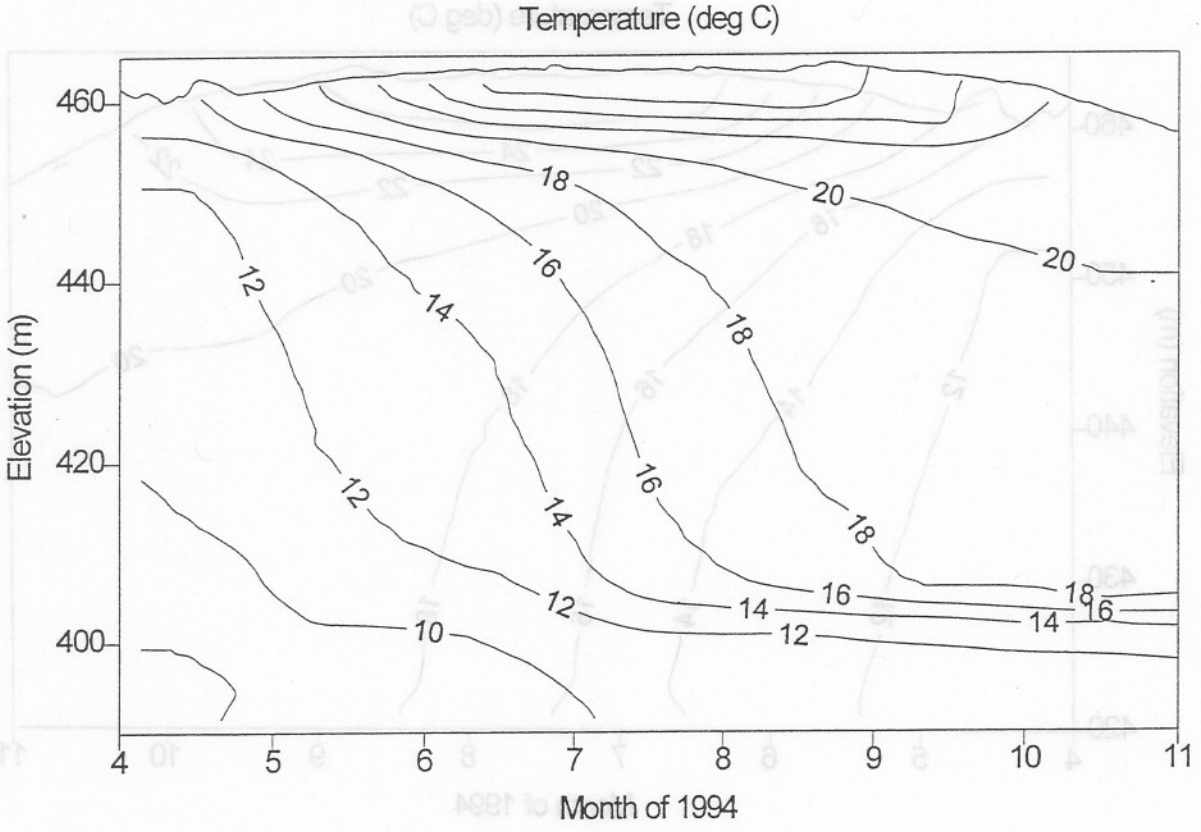


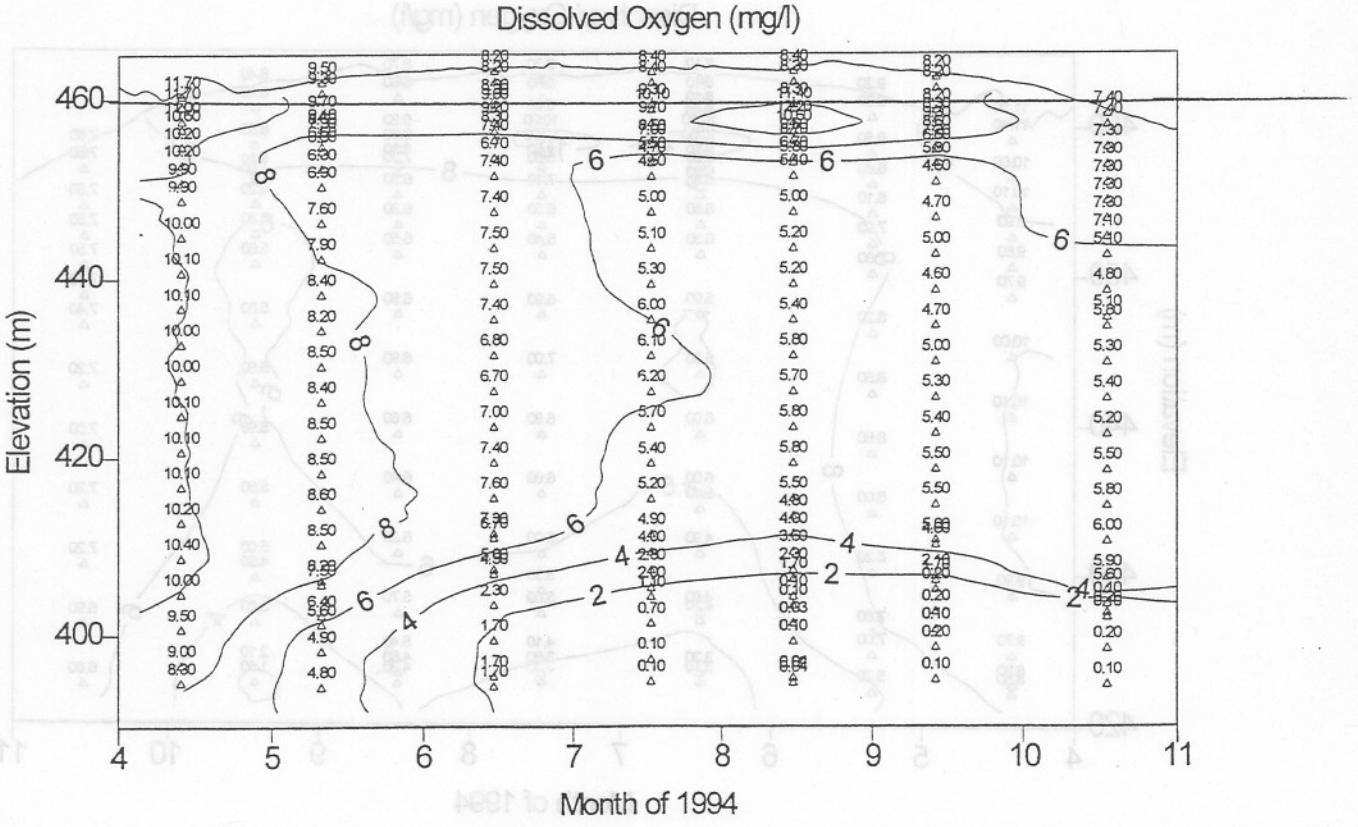
Fontana Reservoir - Tuckaseegee River Mile 3



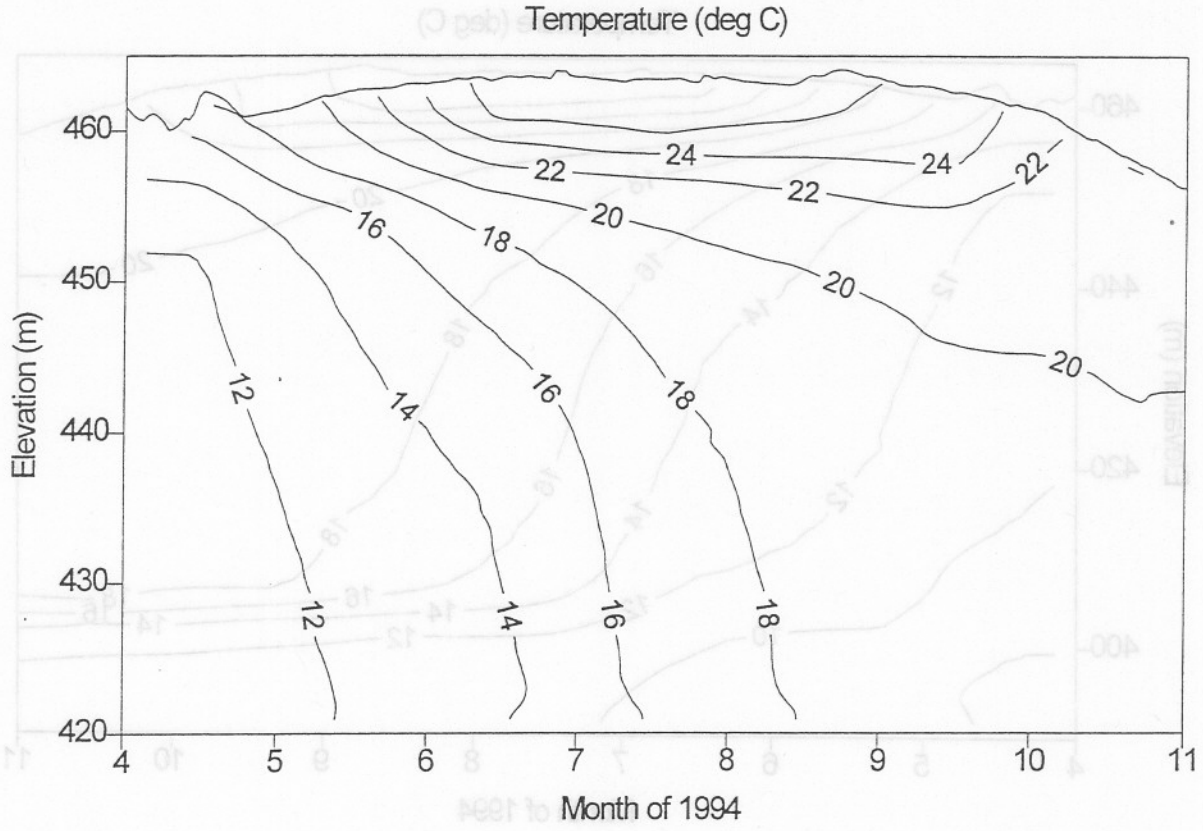


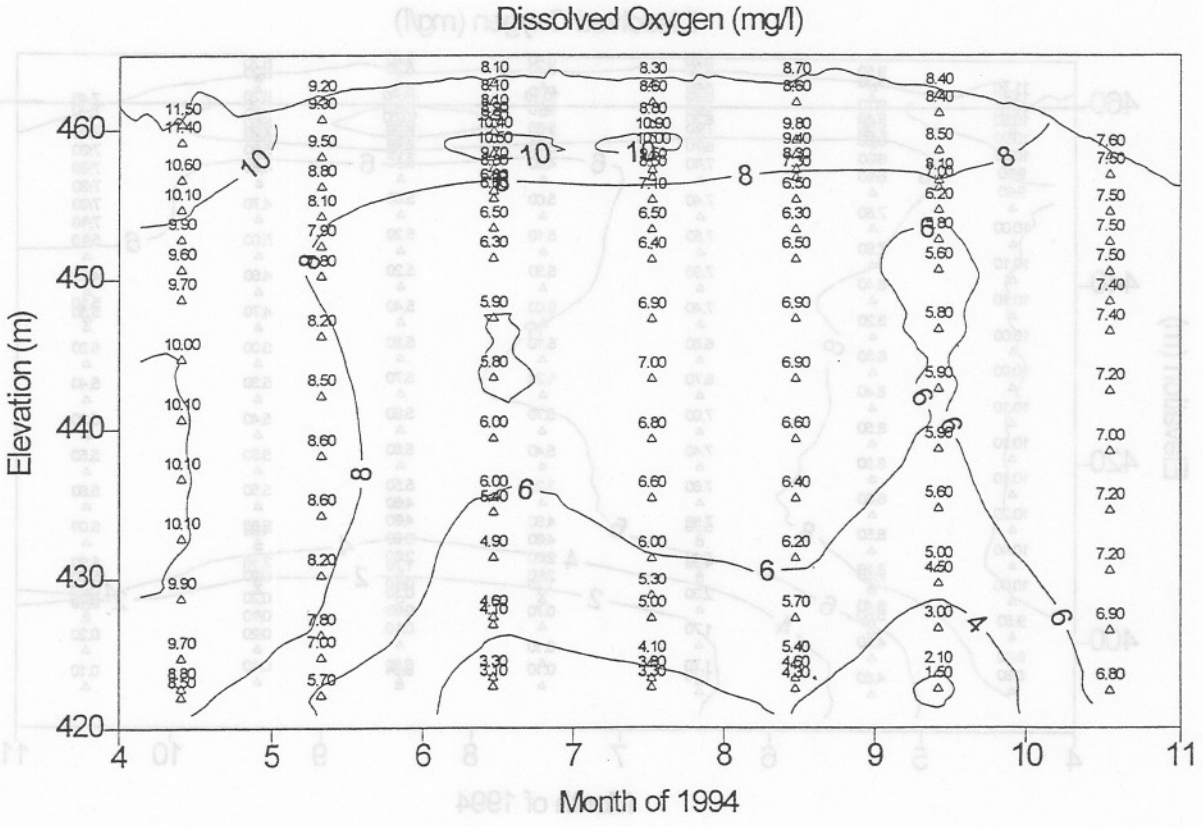
Hiwassee Reservoir - HiRM 77



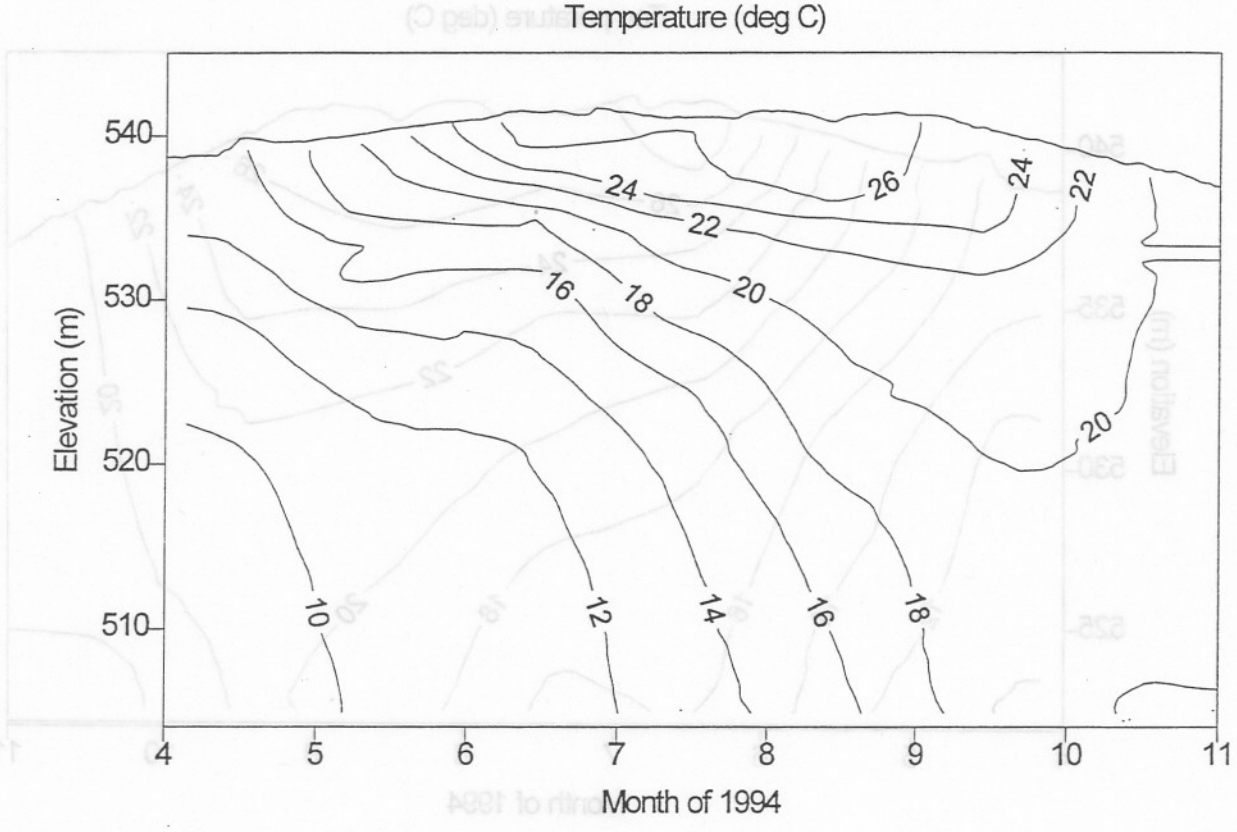


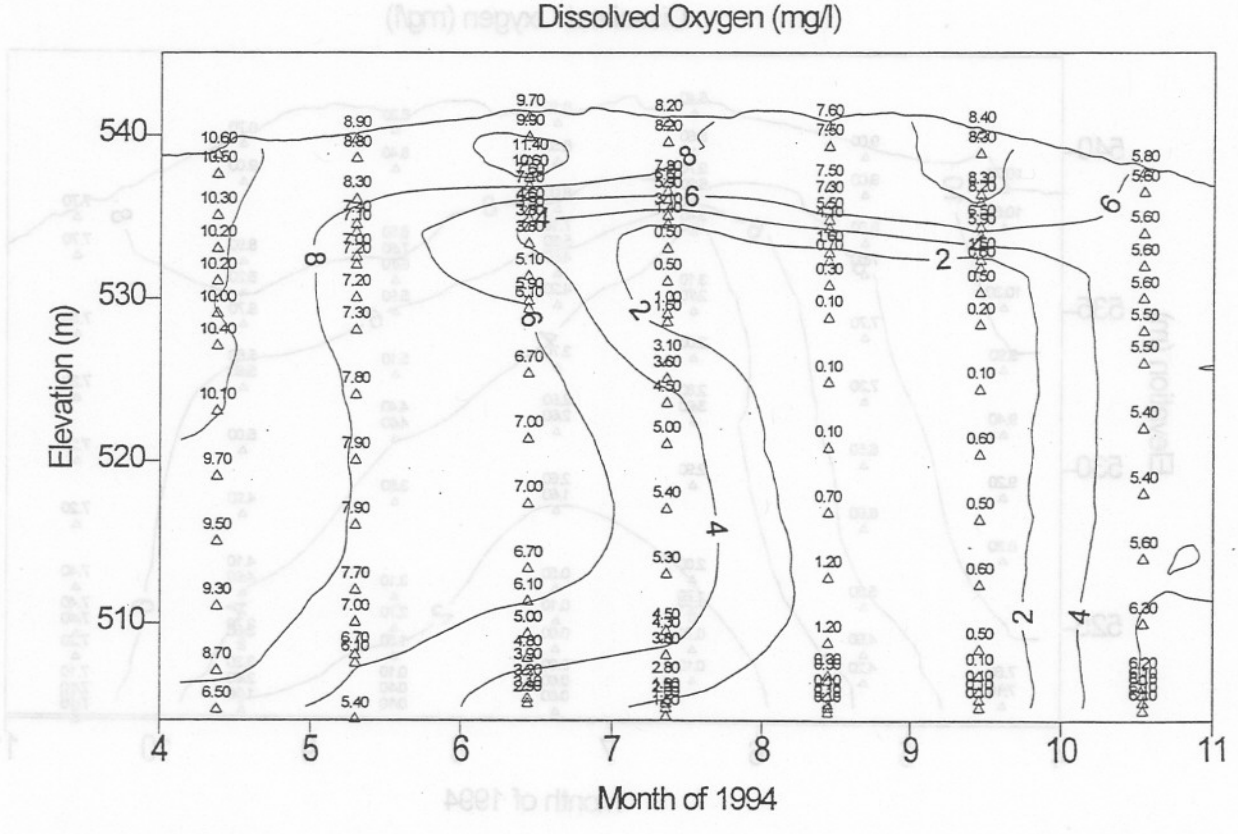
Hiwassee Reservoir - HiRM 85





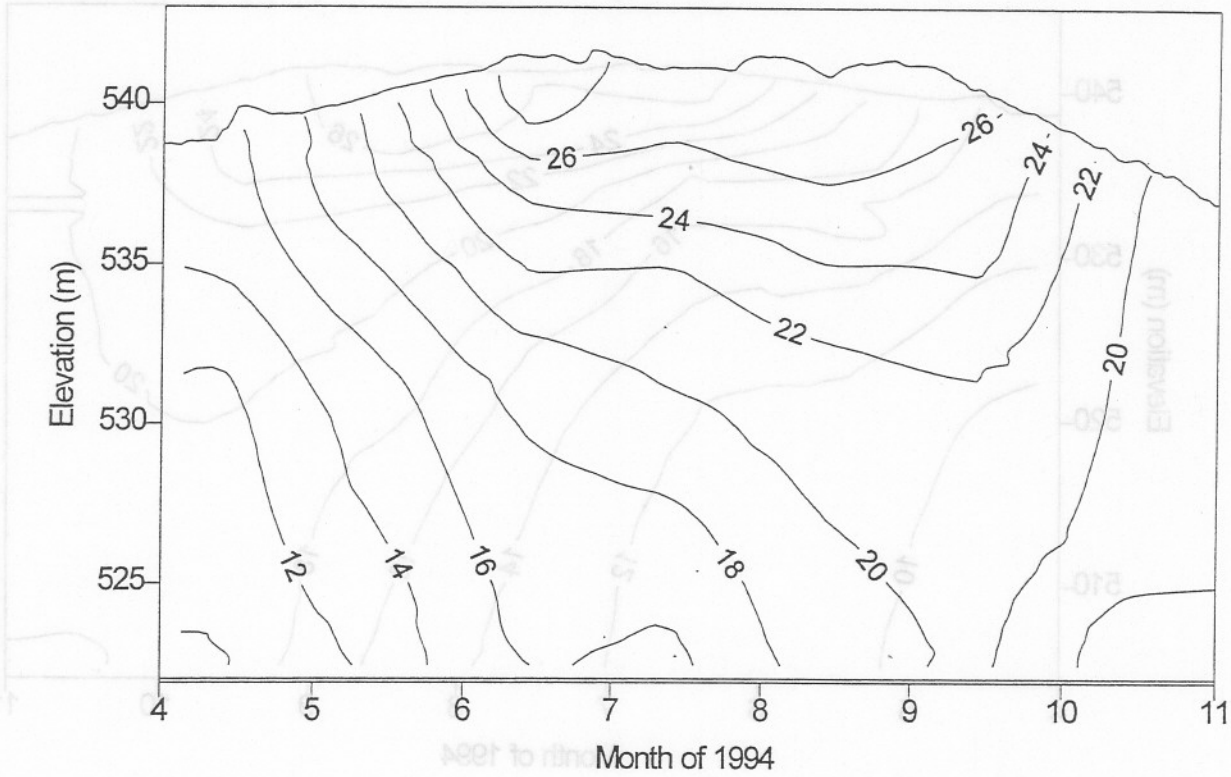
Nottely Reservoir - NRM 23.5



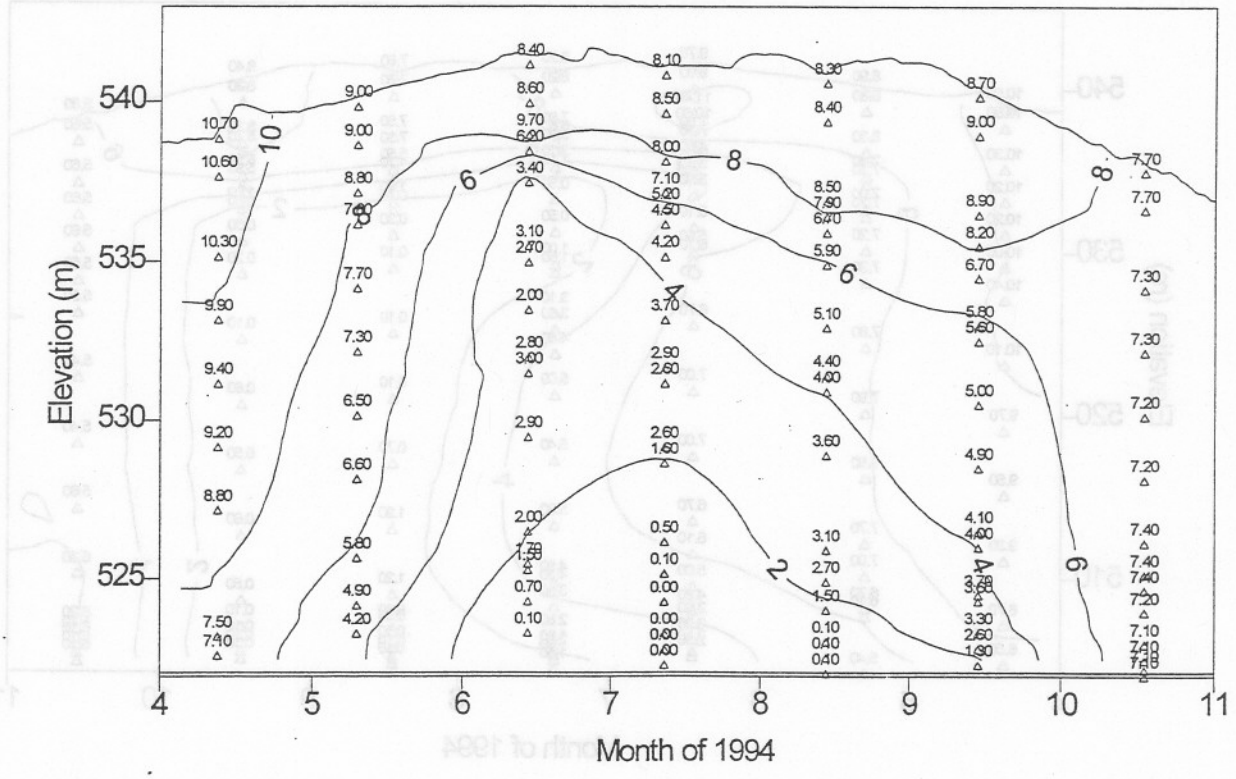


Nottely Reservoir - NRM 31.0

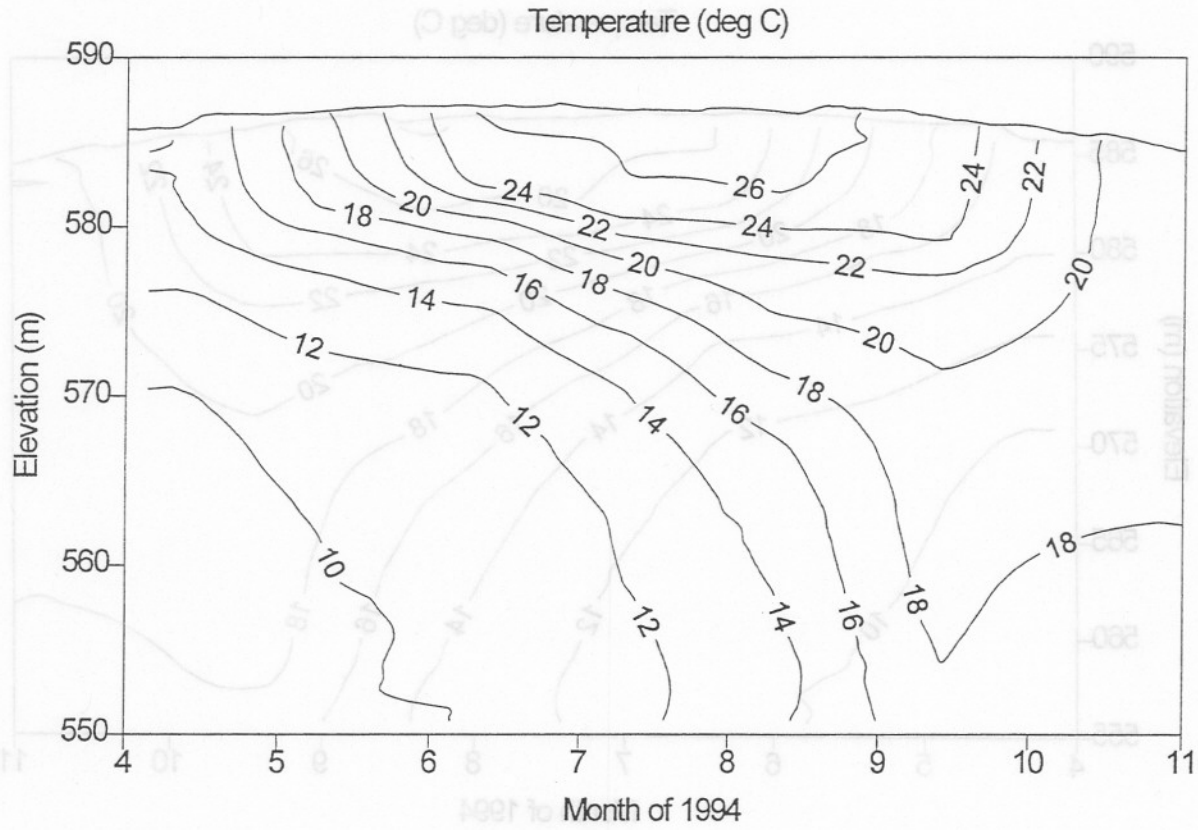
Temperature (deg C)

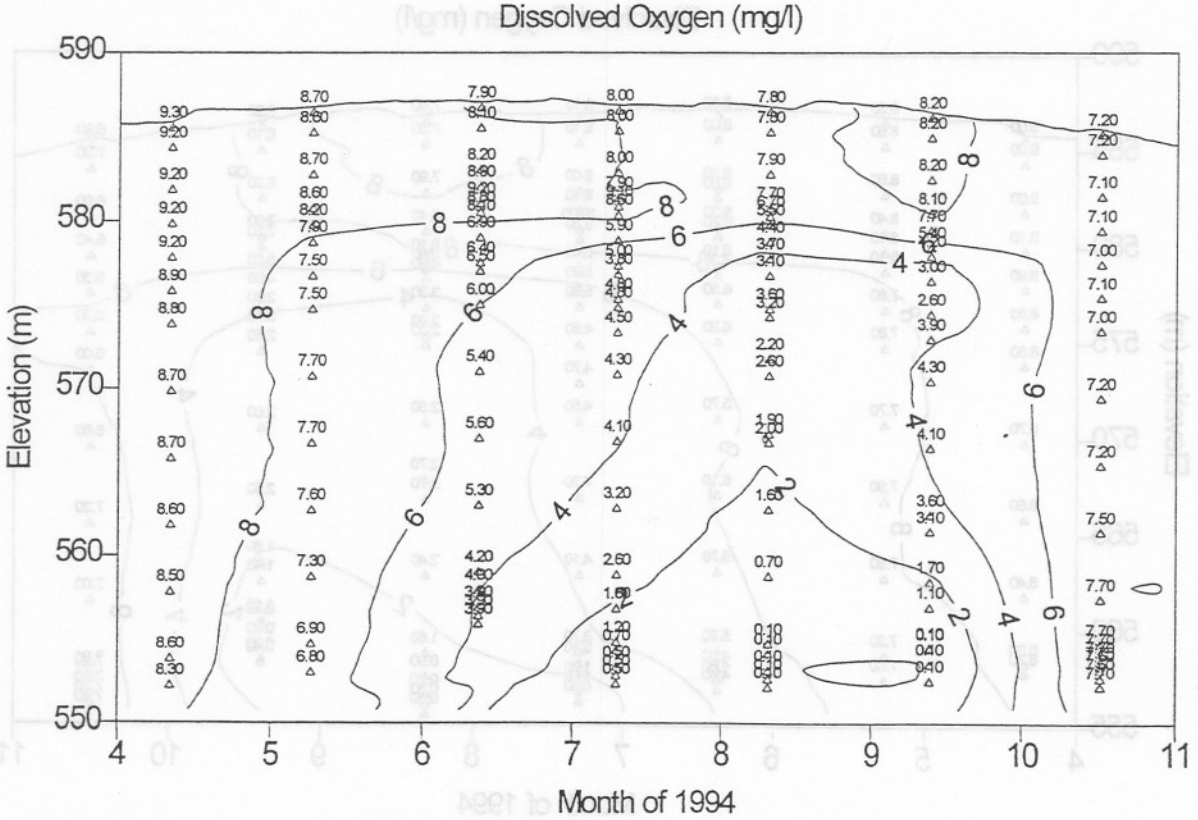


Dissolved Oxygen (mg/l)

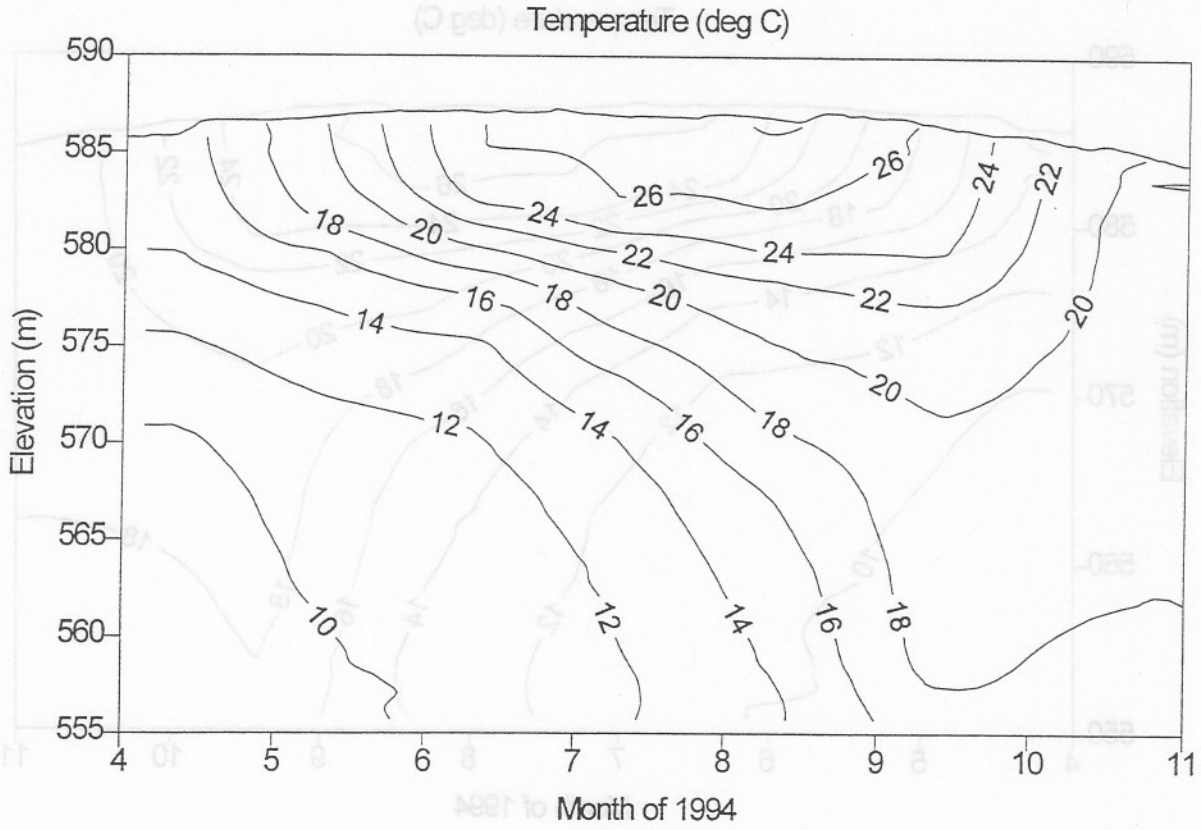


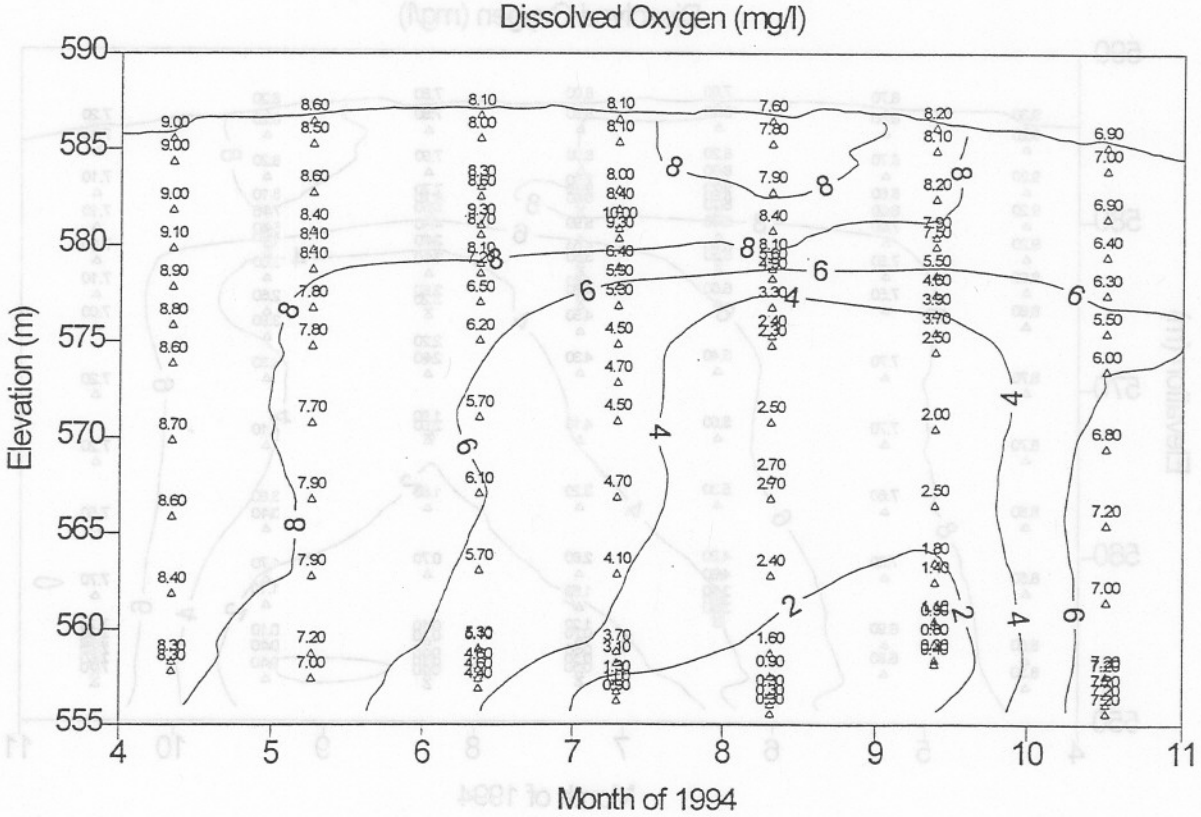
Chatuge Reservoir - HiRM 122



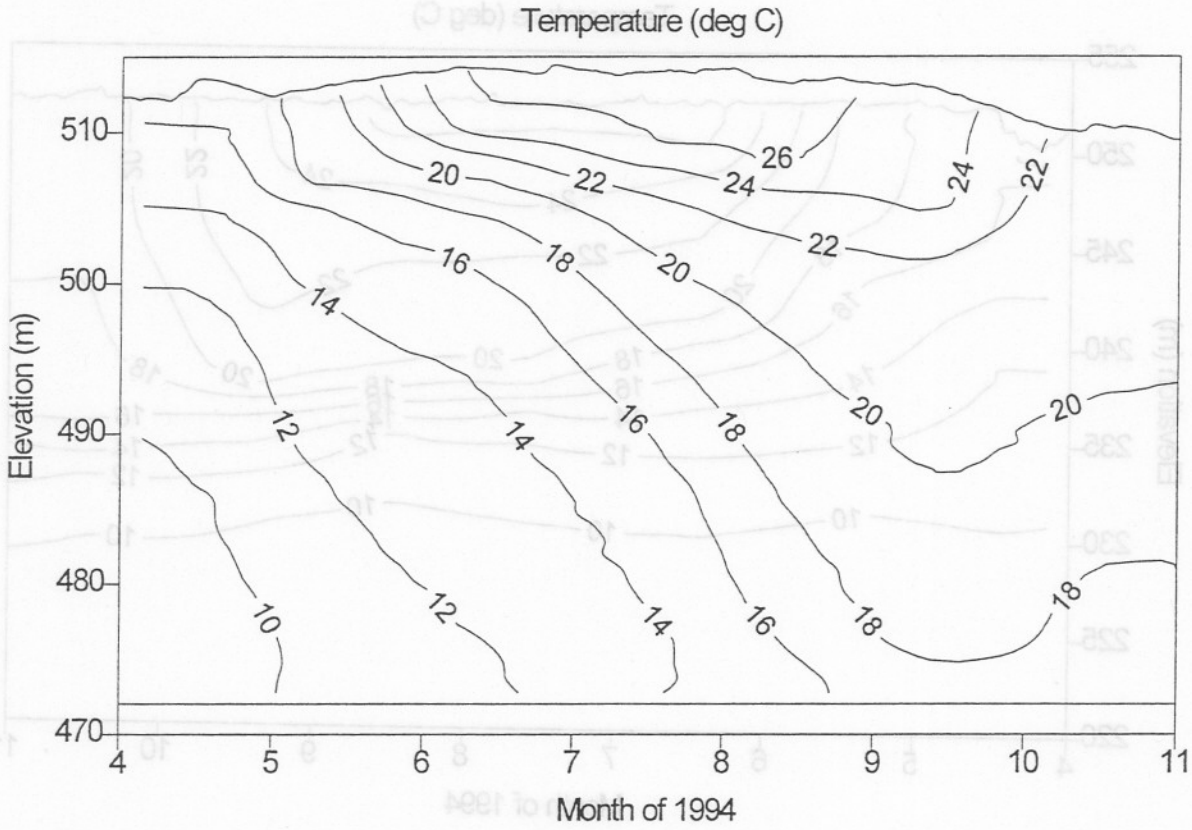


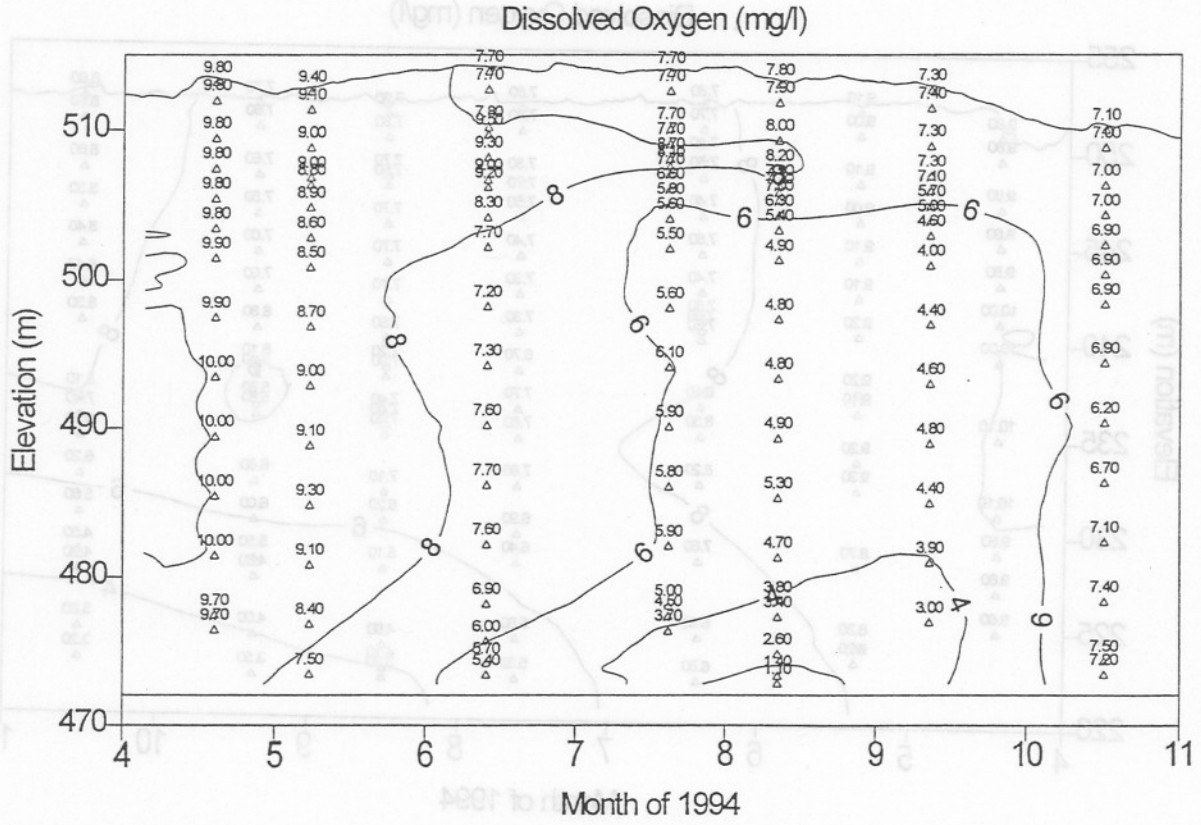
Chatuge Reservoir - Shooting Creek Mile 1.5



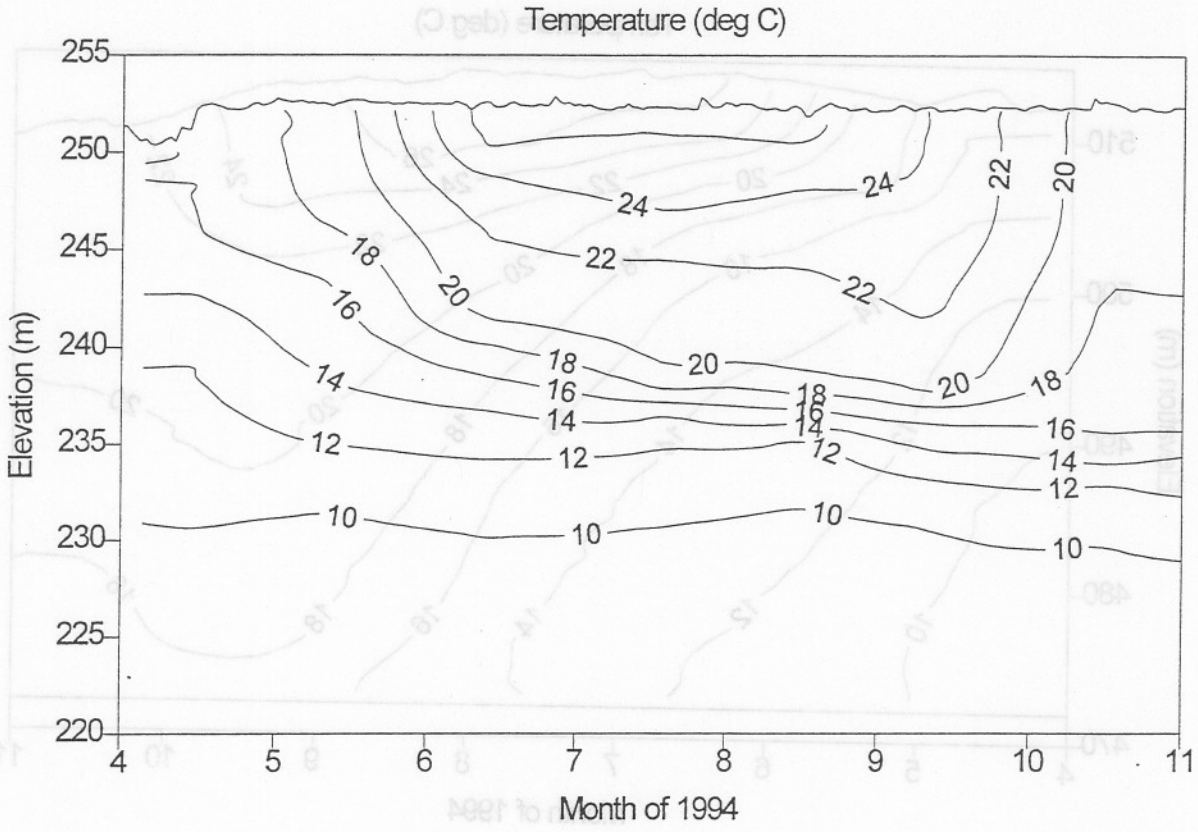


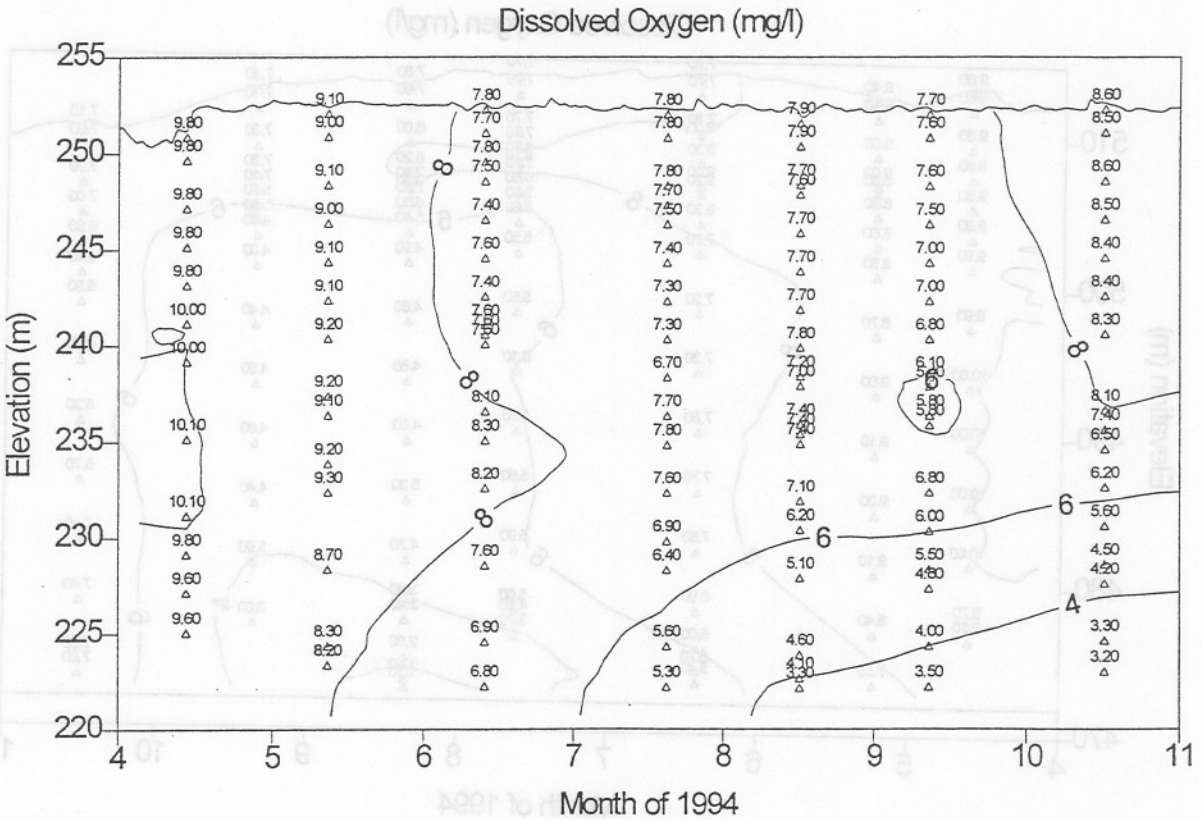
Blue Ridge Reservoir - ToRM 54.1





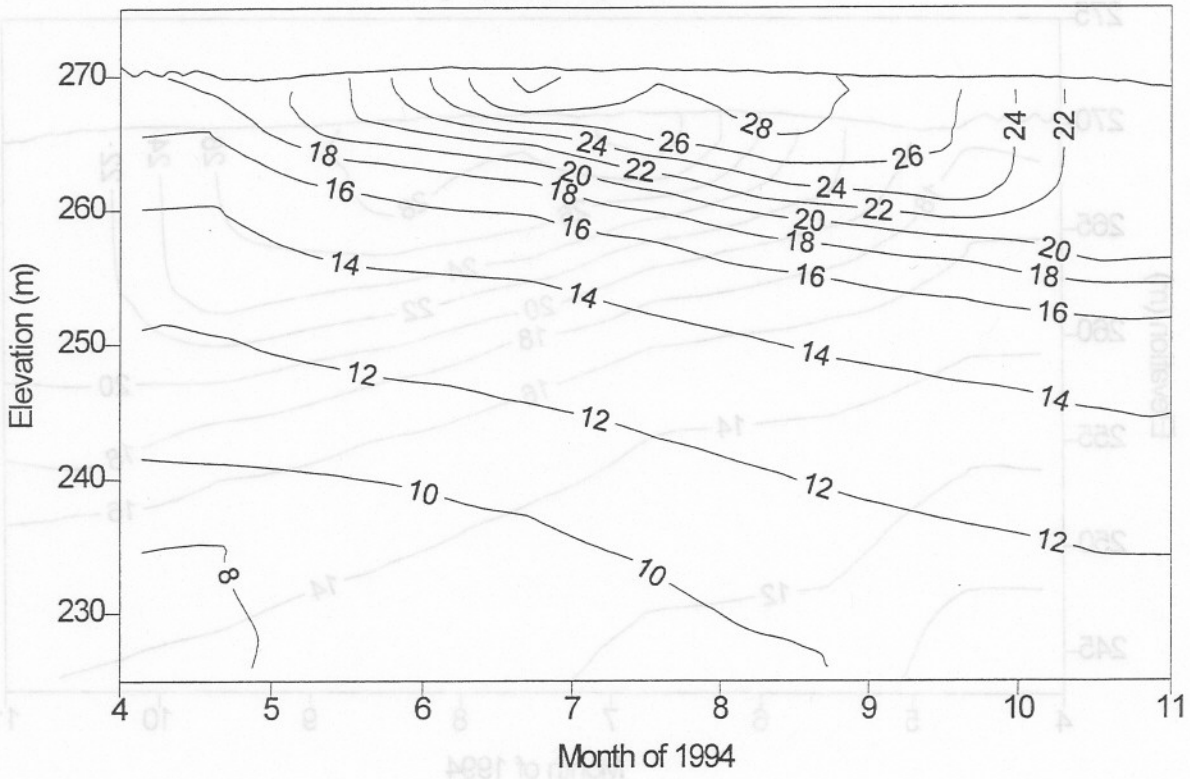
Ocoee #1 Reservoir - ORM 12.5



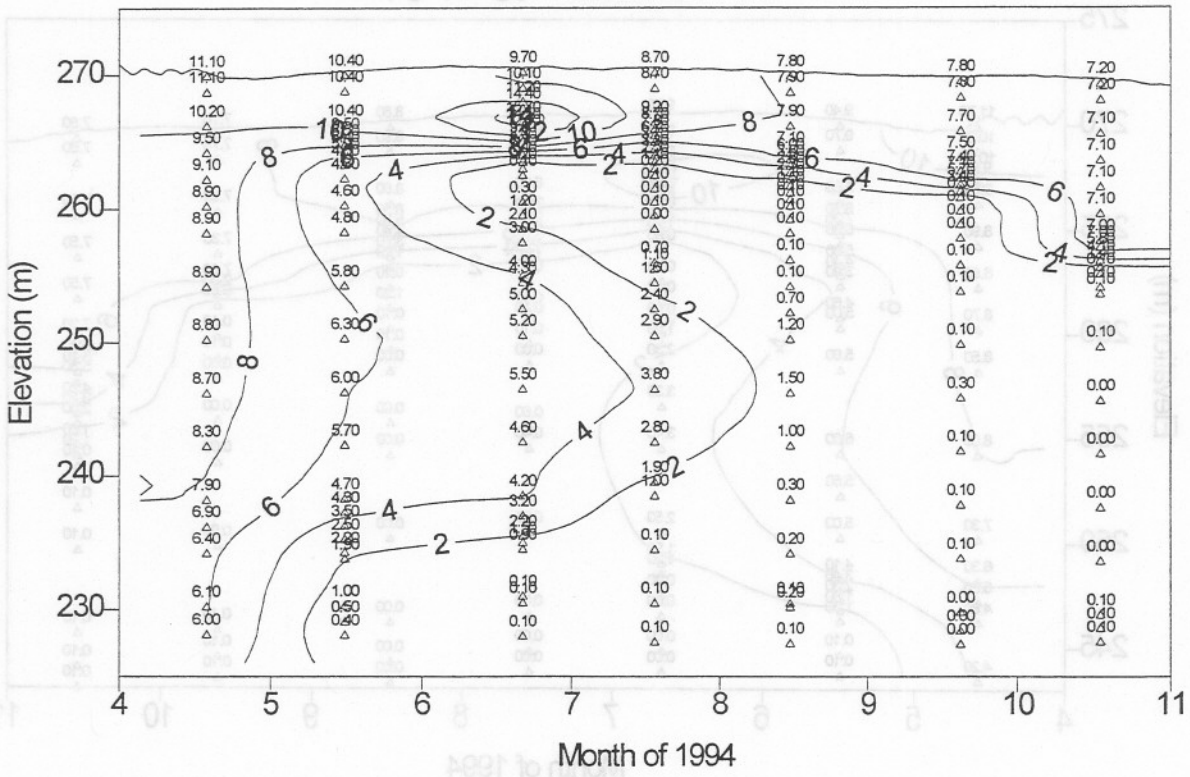


Tims Ford Reservoir - ERM 135

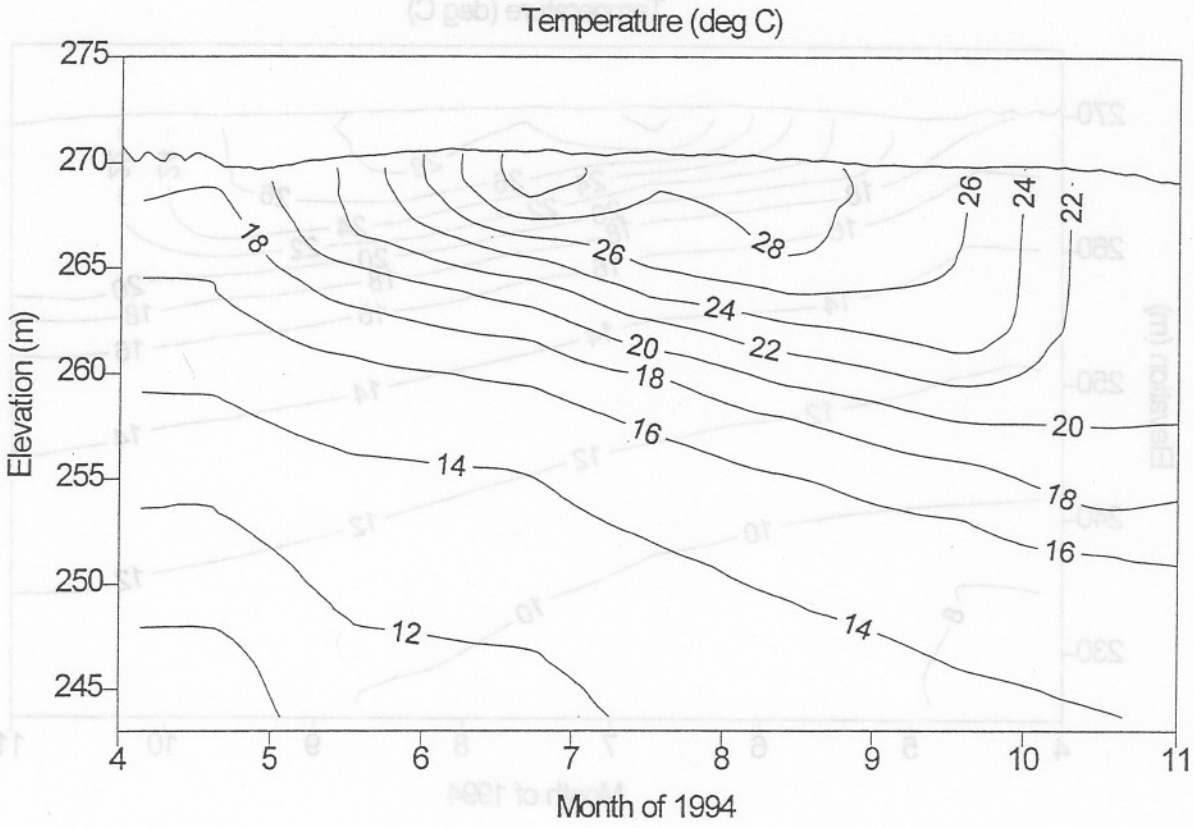
Temperature (deg C)

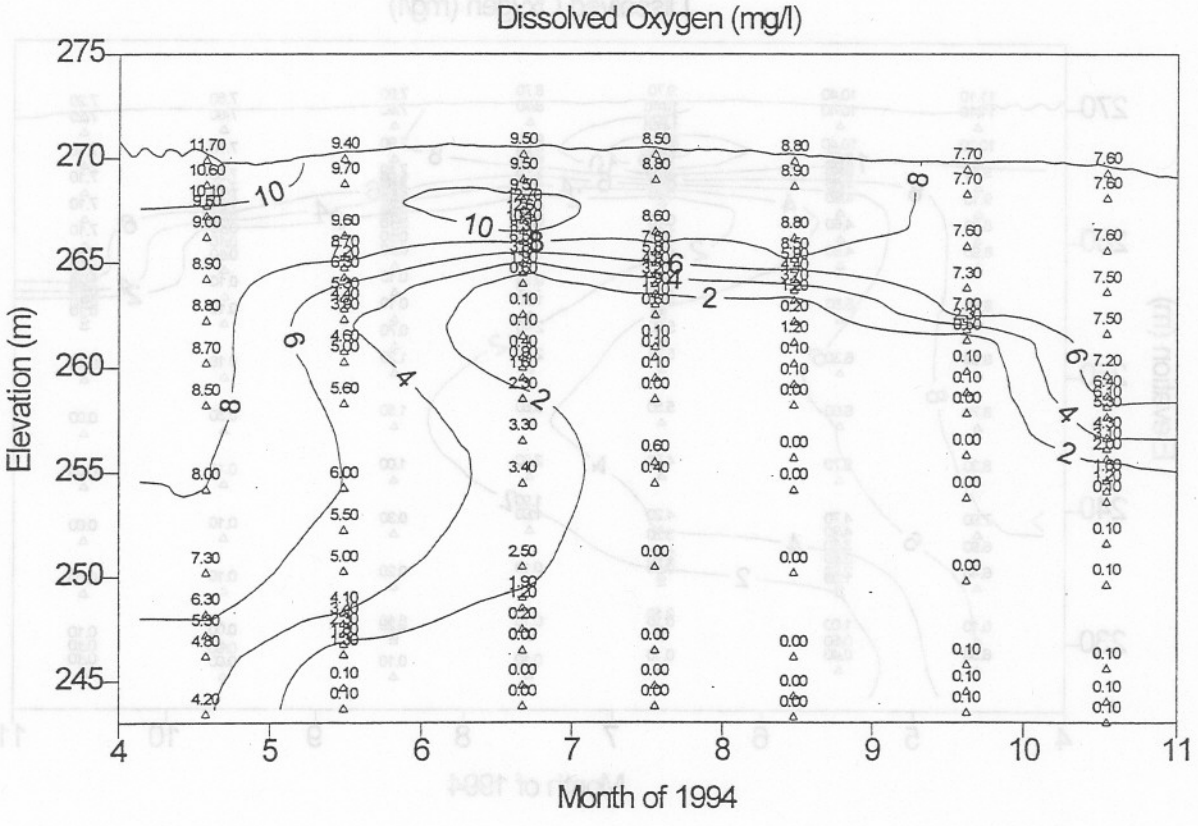


Dissolved Oxygen (mg/l)

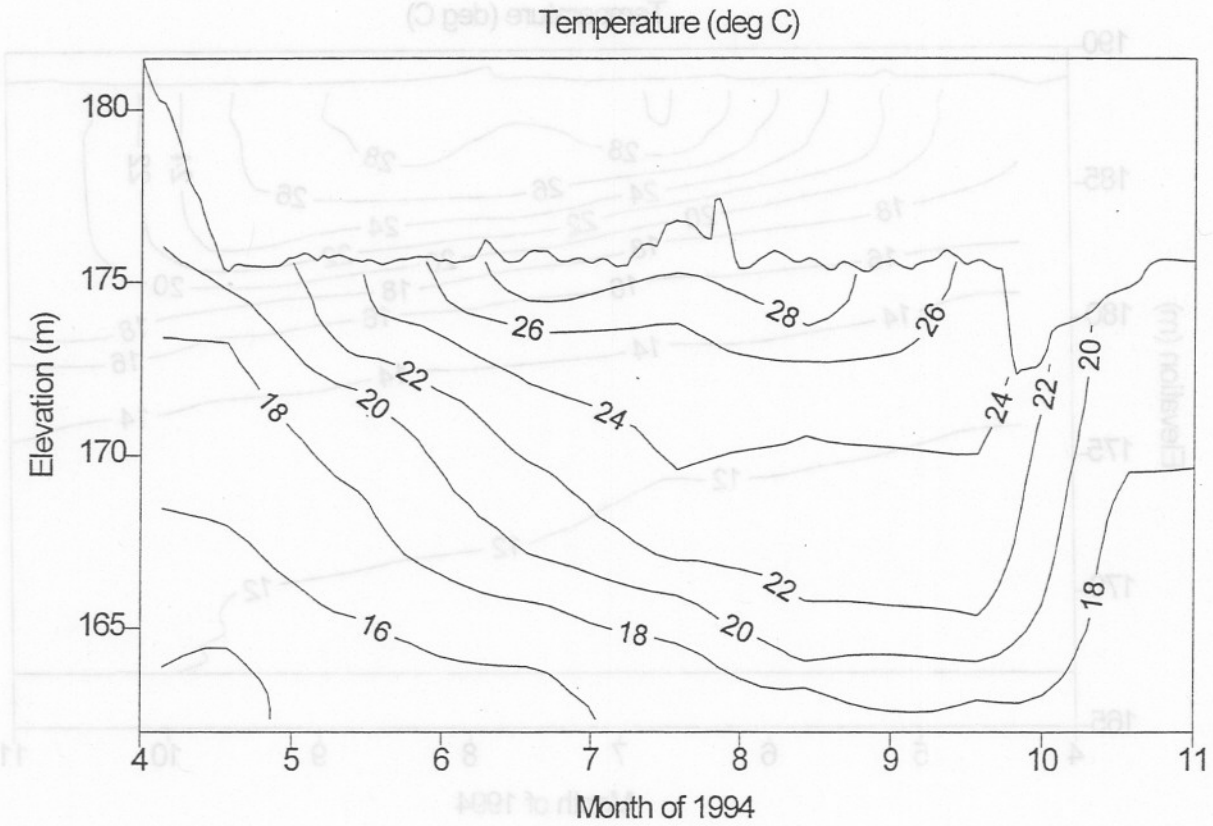


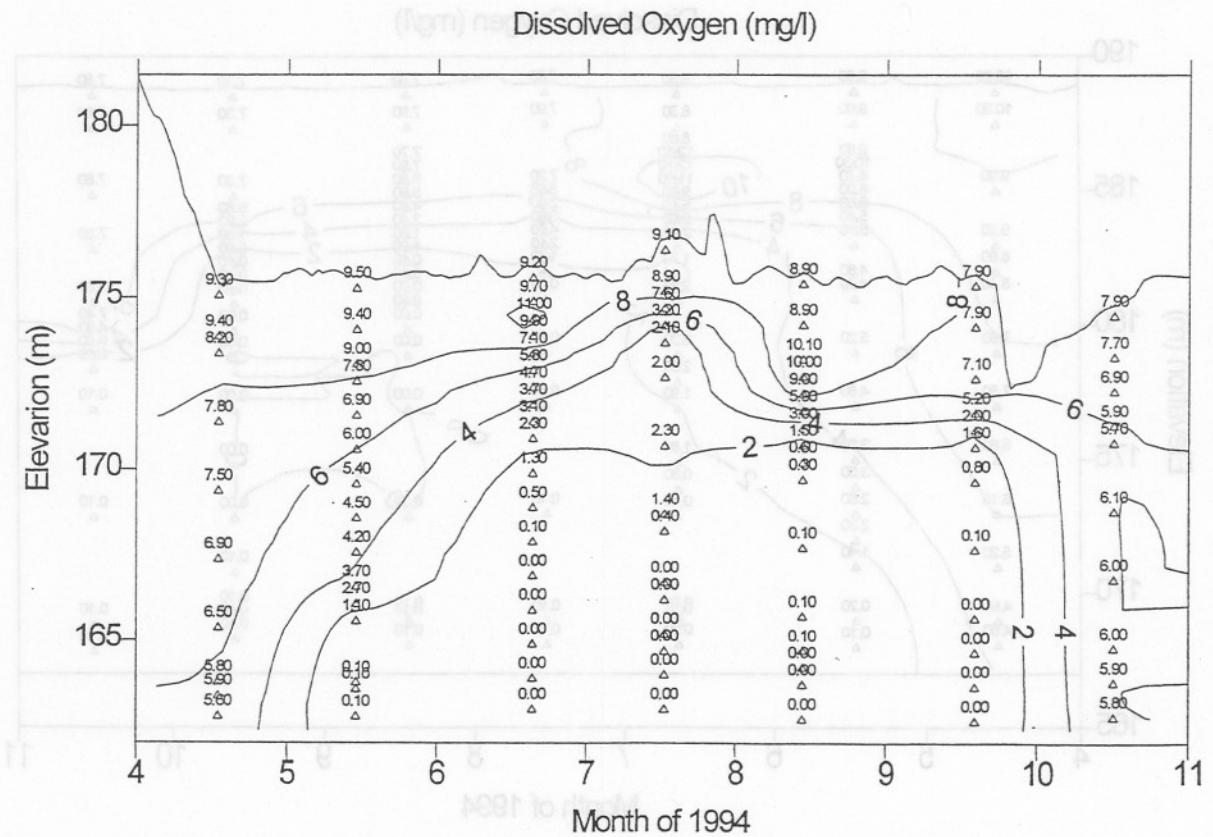
Tims Ford Reservoir - ERM 150



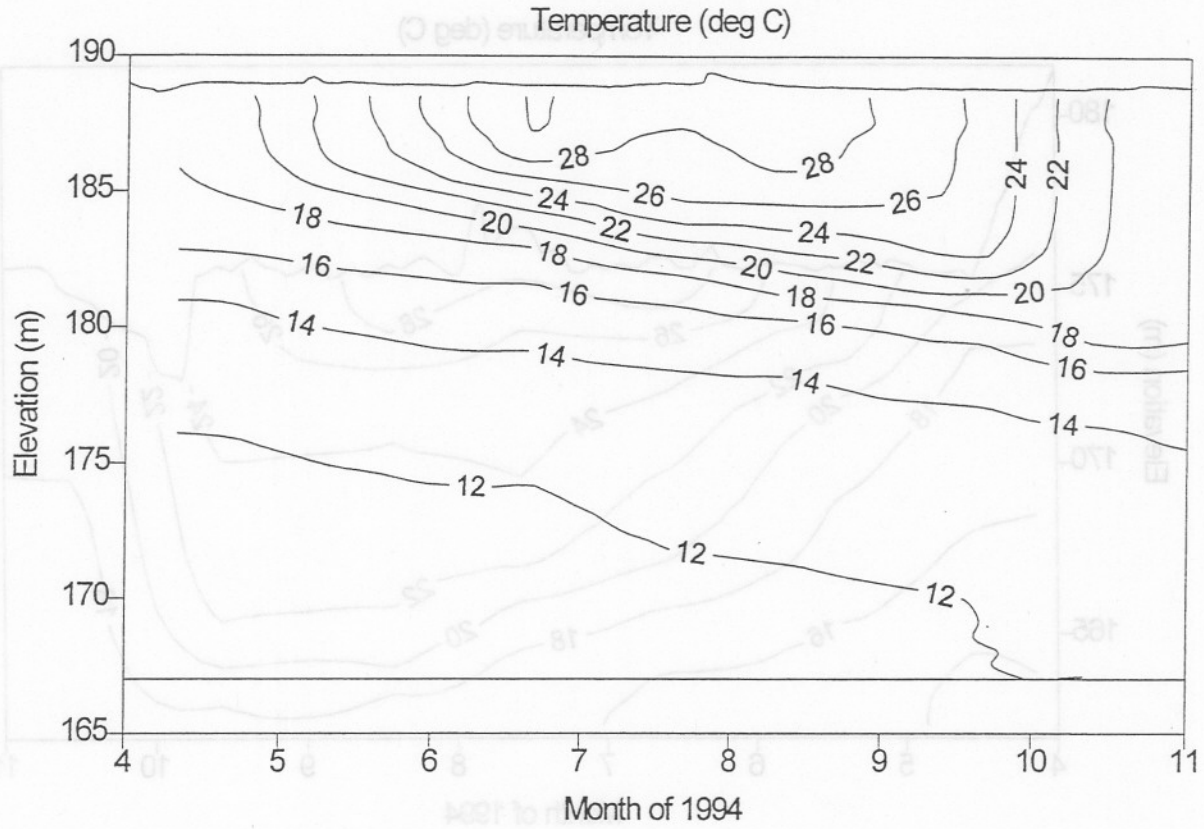


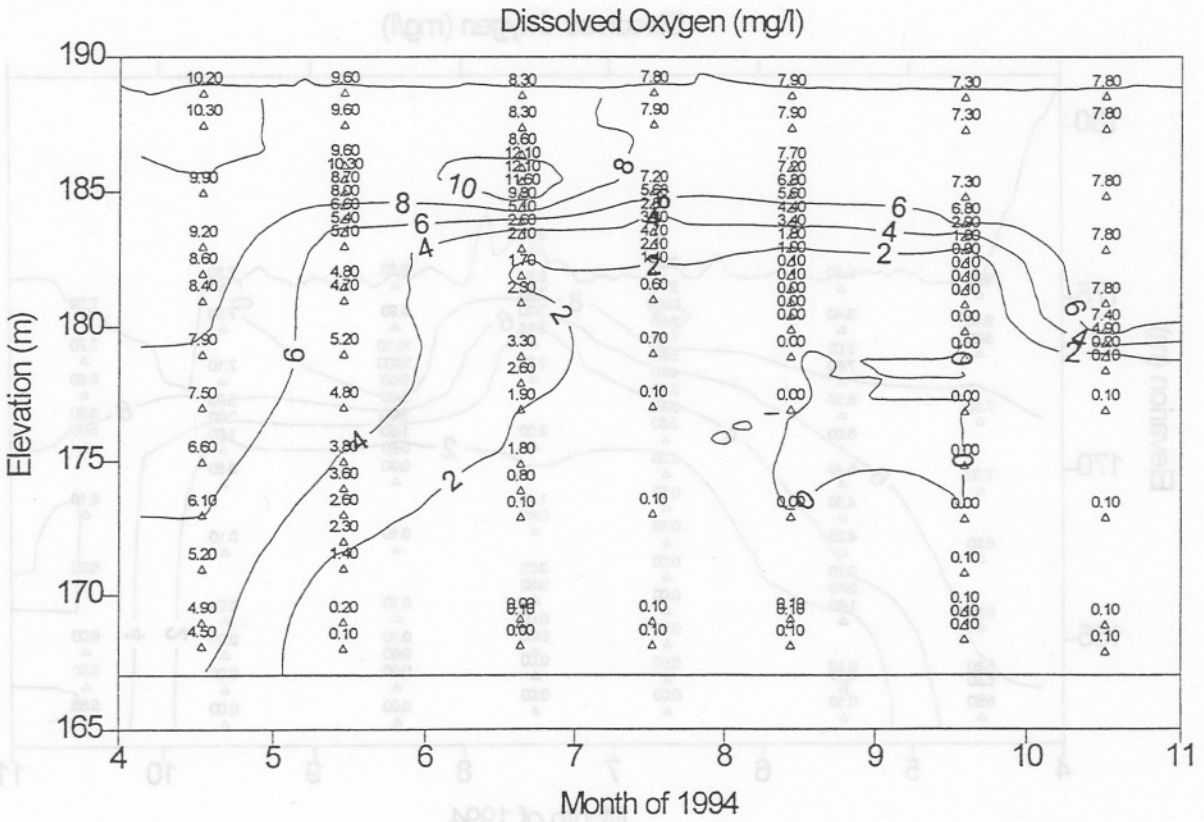
Bear Creek Reservoir - BCM 75.0



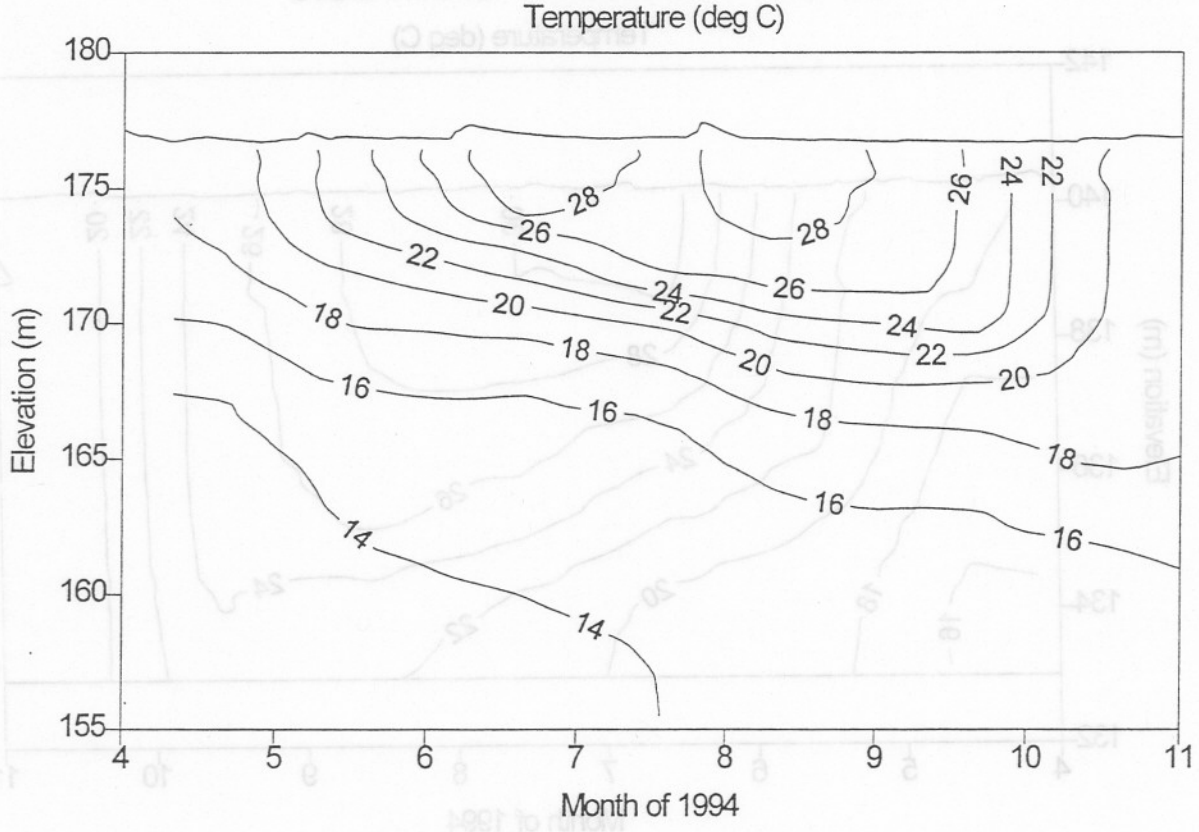


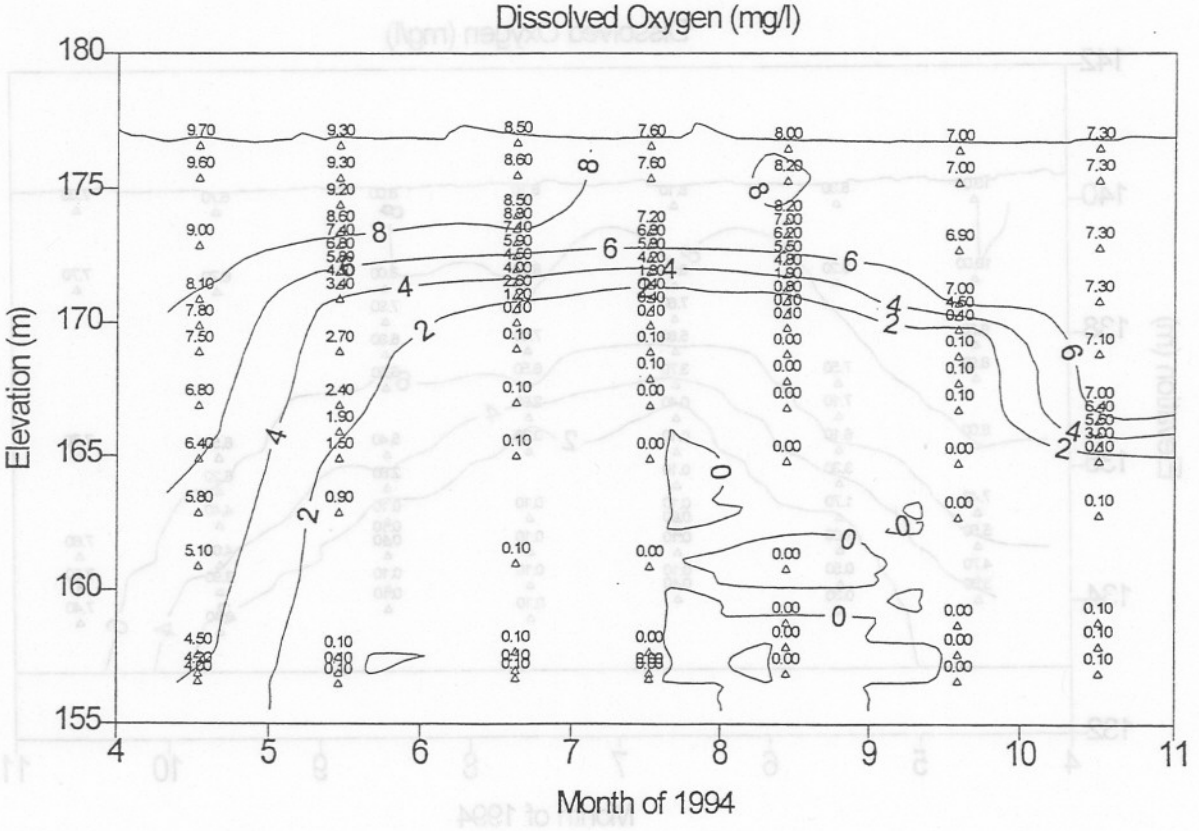
Little Bear Creek Reservoir - LBCM 12.5





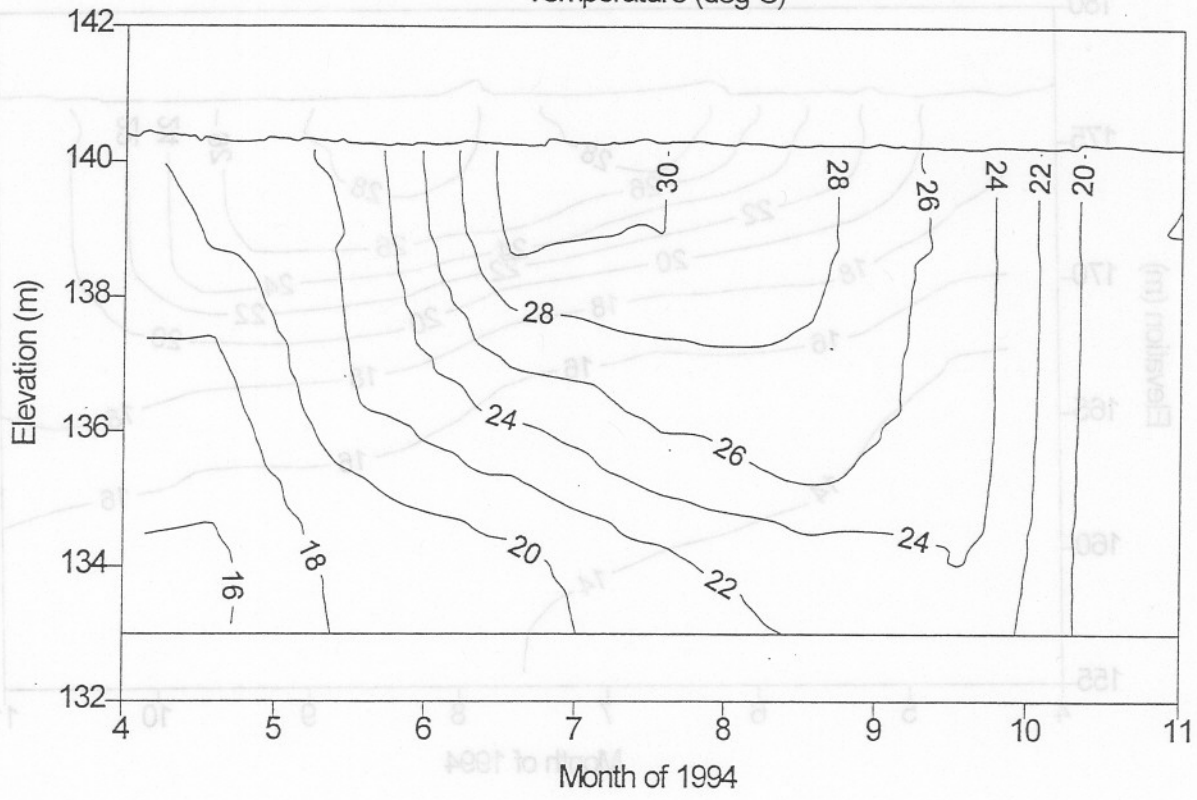
Cedar Creek Reservoir - CCM 25.2



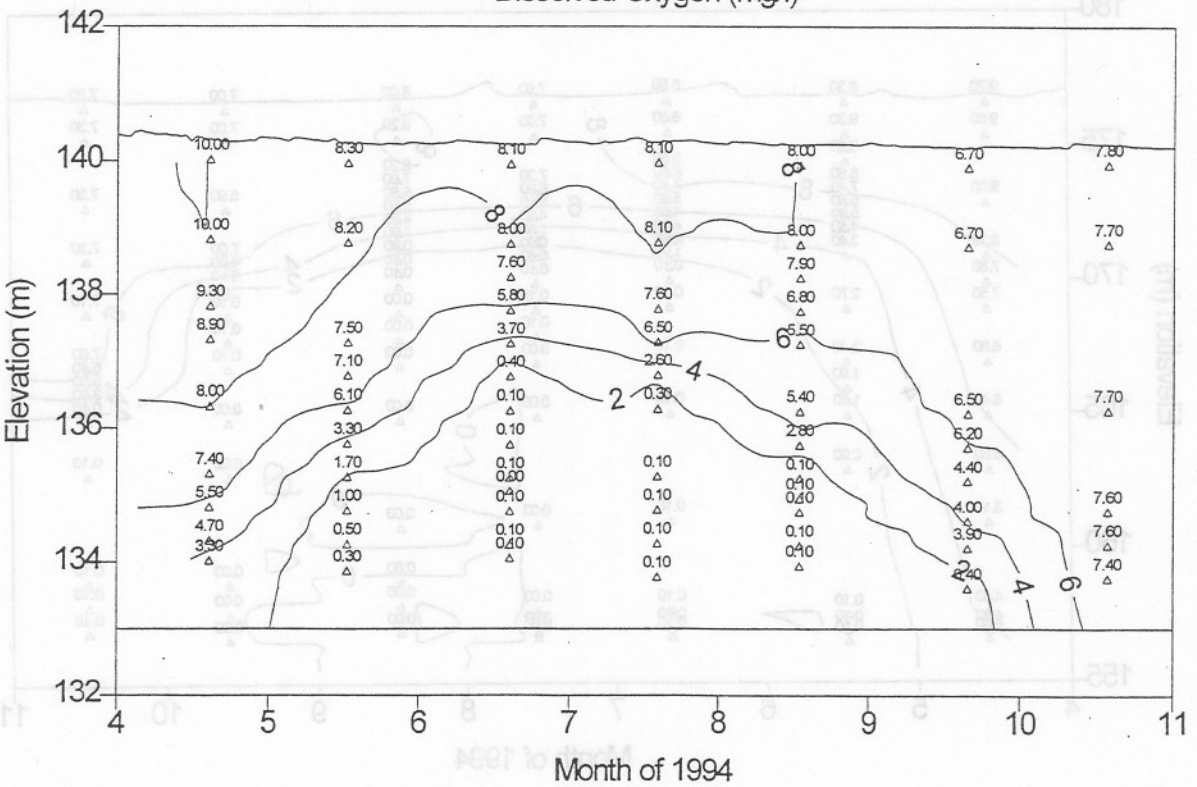


Beech Reservoir - BCM 36.0

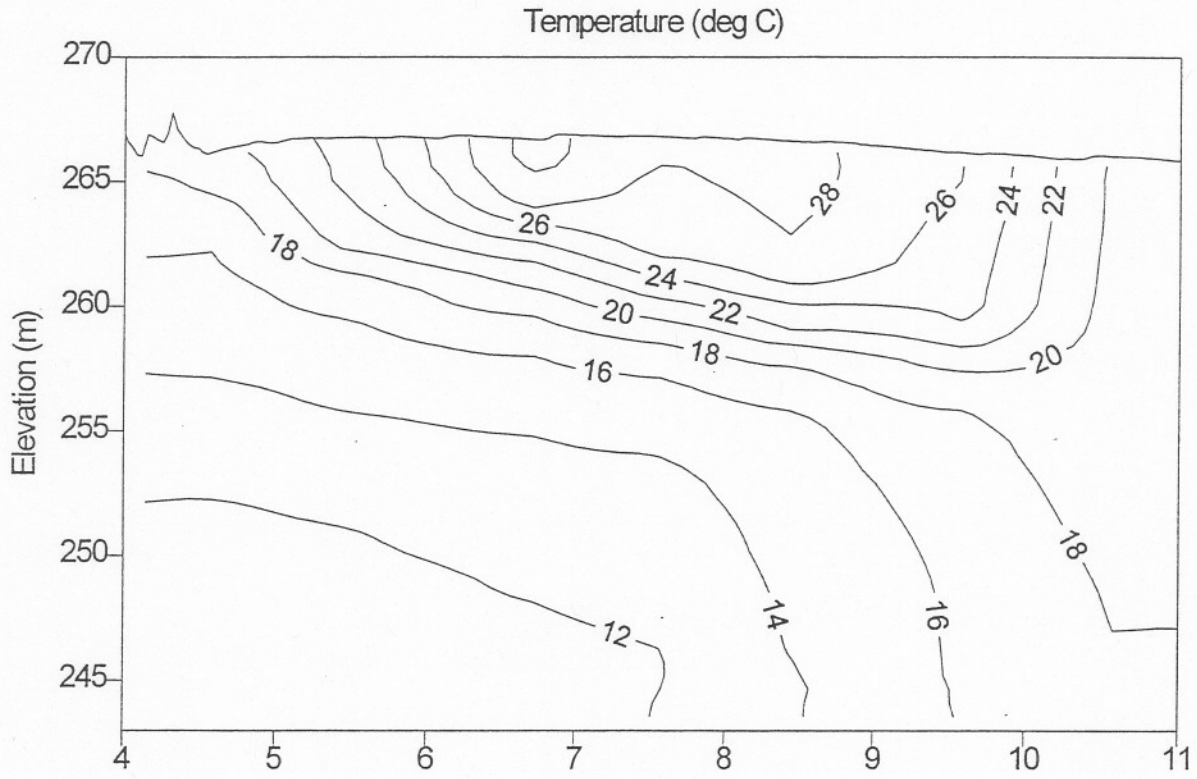
Temperature (deg C)

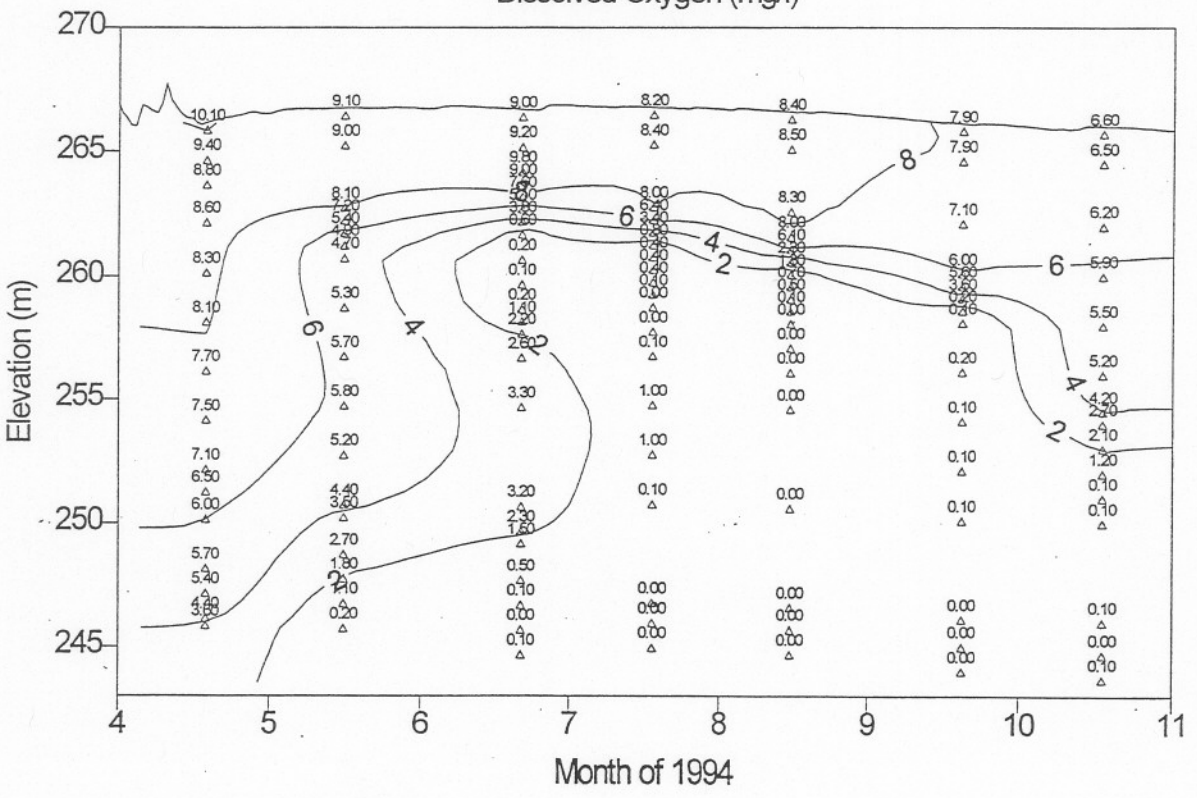


Dissolved Oxygen (mg/l)



Normandy Reservoir - DRM 249.5





Section 4

Benthic Macroinvertebrate Community

Appendix A.

Reservoir Benthic Macroinvertebrate Sampling -- Late Fall Versus Early Spring Collections

Reservoir Benthic Macroinvertebrate Sampling -- Late Fall vs Early Spring Collections

Summary: The TVA expecience has shown that late winter/early spring sampling period is not acceptable for benthic macroinvertebrates because results are reflective of conditions which occurred the previous year. This causes results from this indicator to be out of synch with the other four indicators. Thorough evaluation showed late fall/early winter collection and use of field identification to the family and order levels would negate problems resulting from early spring sampling and would not impact the contribution of this important community to the overall evaluation.

Detail: Initially, benthic macroinvertebrate sampling was conducted in late winter/early spring (February - April) to avoid aquatic insect emergence. Late fall/early winter was not considered feasible because the required reporting date of mid-January would not allow processing time in the laboratory. Also, there was concern that insect instars would be so small that they could pass through the collection screen and or be difficult to identify.

A potential weakness in this approach was that samples would be collected so early in the year that results would be representative of conditions which had occurred the previous year causing them to be out of synch with results for the other four indicators. This potential was manifested in the TVA monitoring program during consecutive years when dissolved oxygen conditions were good in year one and two, poor the third year, then good again the fourth year. Benthos results were good in years one, two, and three, and poor the fourth year. The overall ecological health score should have been lowest in year three and high again in year four. This difference was not as discernable as it should have been because the good score for the benthos collected late winter the third year (actually representing the good DO in the second year) off-set the poor DO scores which resulted from very low DOs during the summer of the third year. Improved conditions the fourth year were not as evident in the overall score because of the poor rating for benthos.

A thorough evaluation was conducted to examine the feasibility of late fall/early winter sample collection.

- For data to be available by the Mid-January reporting data, rapid bioassessment techniques would have to be used. This would require field identification of specimens; to the family or order level, depending on the group. During years three and four, field identifications had been made in addition to detailed laboratory processing to evaluate the potential for using field identification as a cost cutting effort. Benthic index results based on field identications were compared to corresponding results from the laboratory using correlation analysis. Results were very favorable: for the run-of-the river reservoirs r values were 0.80, 0.93, and 0.87 for forebays, transitions zones, and inflows.
- To test the validity of late fall sampling, special collections were conducted during late fall the fourth year. Benthic index scores based on field identifications during both spring and fall showed very little difference:

	Spring	Fall
Chickmauga Reservoir forebay	34	38
Nickajack Reservoir forebay	36	38
Chickmauga Reservoir inflow	26	26
Nickajack Reservoir inflow	38	38
Chickamauga Reservoir embayment	18	36
Chickamauga Reservoir transition zone	38	38

  There was only one location with a substantial difference between the two sample periods. Interestingly, results for fall sampling the fourth year were similar to results for spring sampling the third year, indicating unstable conditions which need to be watched closely in future sampling events.
- Concerns about size of insect instars and ability to identify them satisfactorily were allayed by the successful efforts during the fall test period described above.
- One further test to compare fall versus spring collections was to use Sorensen's Quotient of Similarity to examine taxa present during the two periods. Results of the above test samples showed that taxa present in the fall were as comparable to those collected in the spring as replicate spring sample sets were to each other.

Package Subject: Reservoir Benthics

Item Title: Reservoir Benthics

.ring the past year, steps have been taken to determine if the cost and timeliness of the Reservoir Benthic Vital Signs data could be improved. Using statistics on past data, we have decided to go from a full laboratory analysis of the samples (approx. $88,000/year lab cost) to a rapid bioassessment (approx $10,000/year lab cost). This will drastically reduce our turn-around time of the data. The Benthic Vital Signs datalogger program already in place will be further implemented to add to the timeliness of the data. We've also decided to move the sampling season from early spring to early winter, so that when RiverPulse comes out in the spring, the benthic information won't be a year old and will correspond with the rest of the ecological health indicators. If you would like more information or would like to discuss these decisions please contact Amy Wales, Anita Masters, Tom McDonough, or Don Dycus.

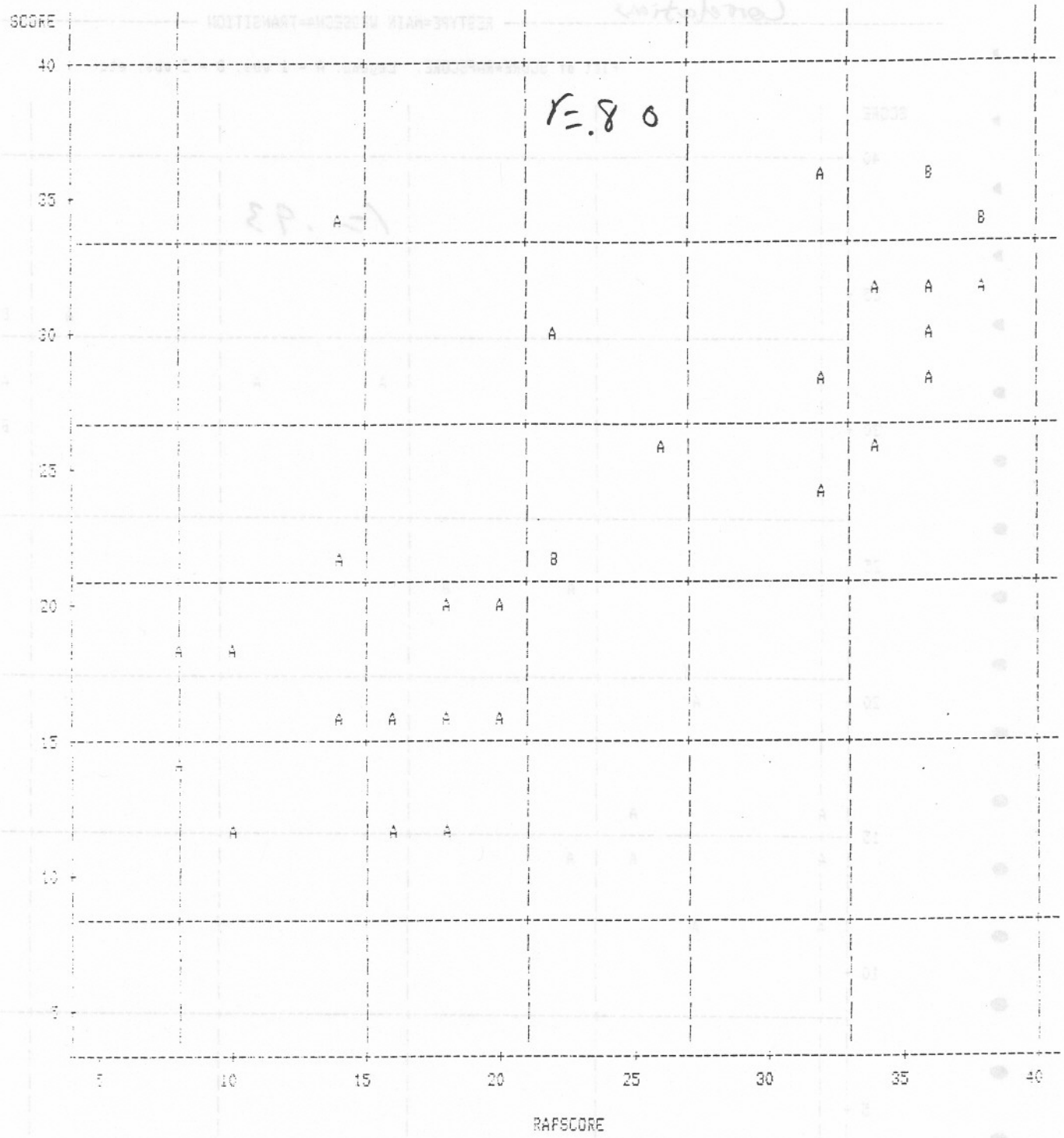
Combined Q3 + Q4 RAPid ISIC vs Standard

Figure 1. Run-of-River, Forebays (Spring Sampling)

Correlations

RESTYPE=MAIN WBDSECNA=FOREBAY

Plot of SCORE*RAPSCORE. Legend: A = 1 obs, B = 2 obs, etc.



Combined 93 & 94 Rapid Bio vs Standard

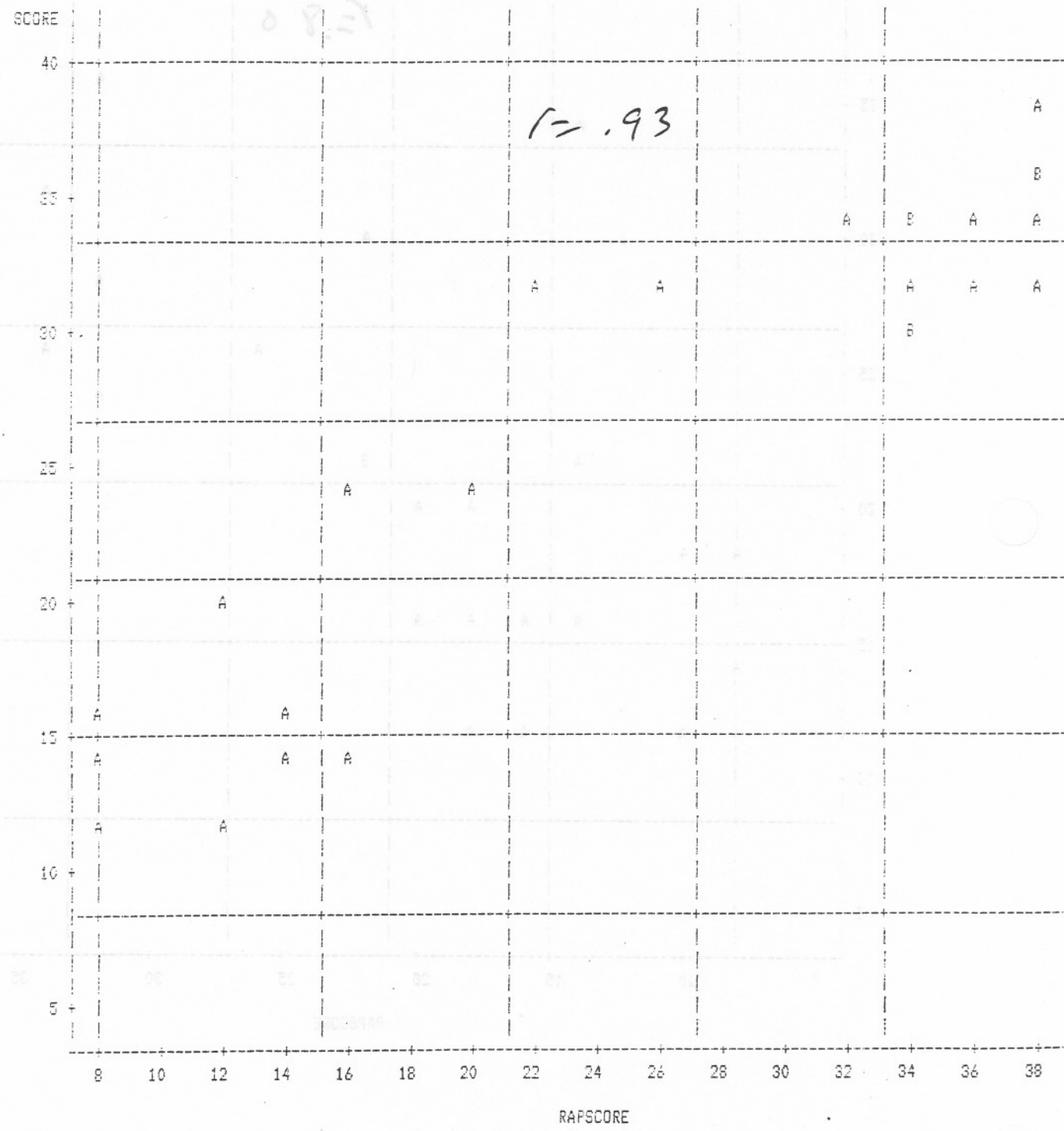
Figure 2. Run-of-River Reservoirs, Transition Zones (Spring collections)

The SAS System 10:23 Tuesday, Feb ... 14

Correlations

RESTYPE=MAIN WBDSECNA=TRANSITION

Plot of SCORE*RAPSCORE. Legend: A = 1 obs, B = 2 obs, etc.



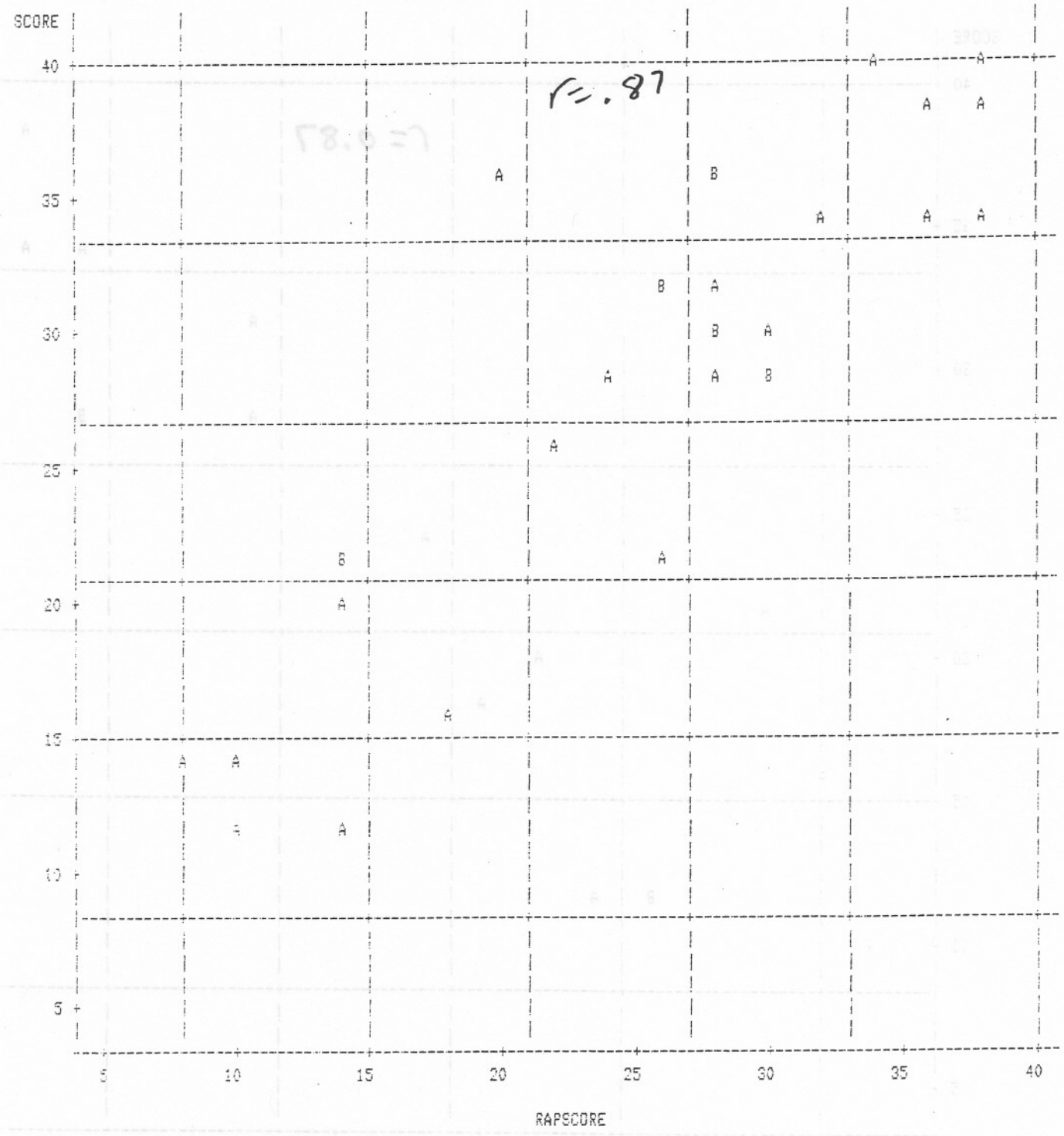
Combined 93 & 94 Rapid Bio vs Standard

Figure 3. Run-of-River Reservoirs, Inflows (Spring Sampling)

Correlations

RESTYPE=MAIN WBDSECNA=INFLOW

Plot of SCORE*RAPSCORE. Legend: A = 1 obs, B = 2 obs, etc.



NOTE: 1 obs had missing values.

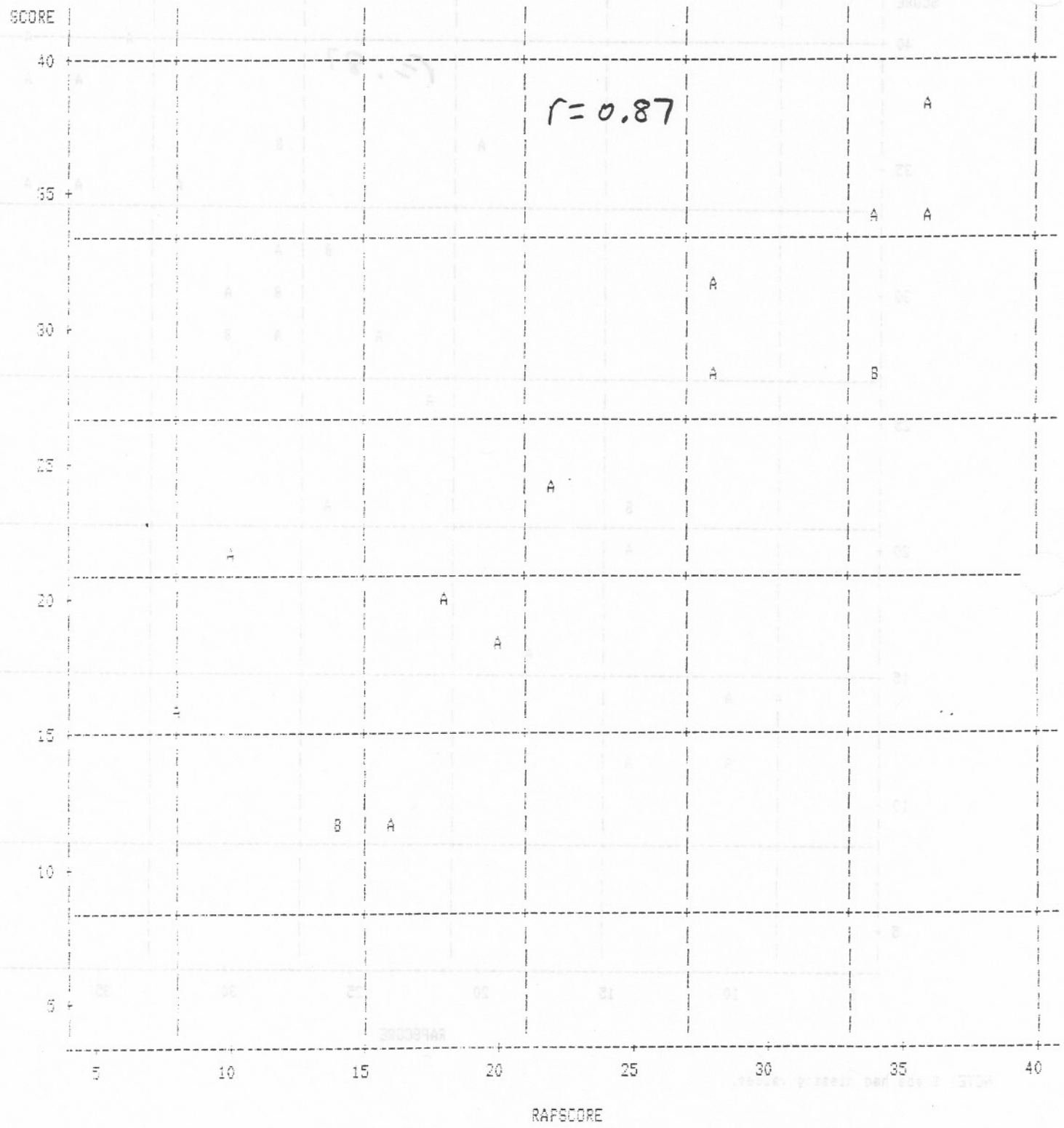
1994 Rapid [illegible]

Figure 4. Run-of-River Reservoirs, Forebays (Spring Sampling)

Correlations

RESTYPE=MAIN W8DSECNA=FOREBAY

Plot of SCORE*RAPSCORE. Legend: A = 1 obs, B = 2 obs, etc.



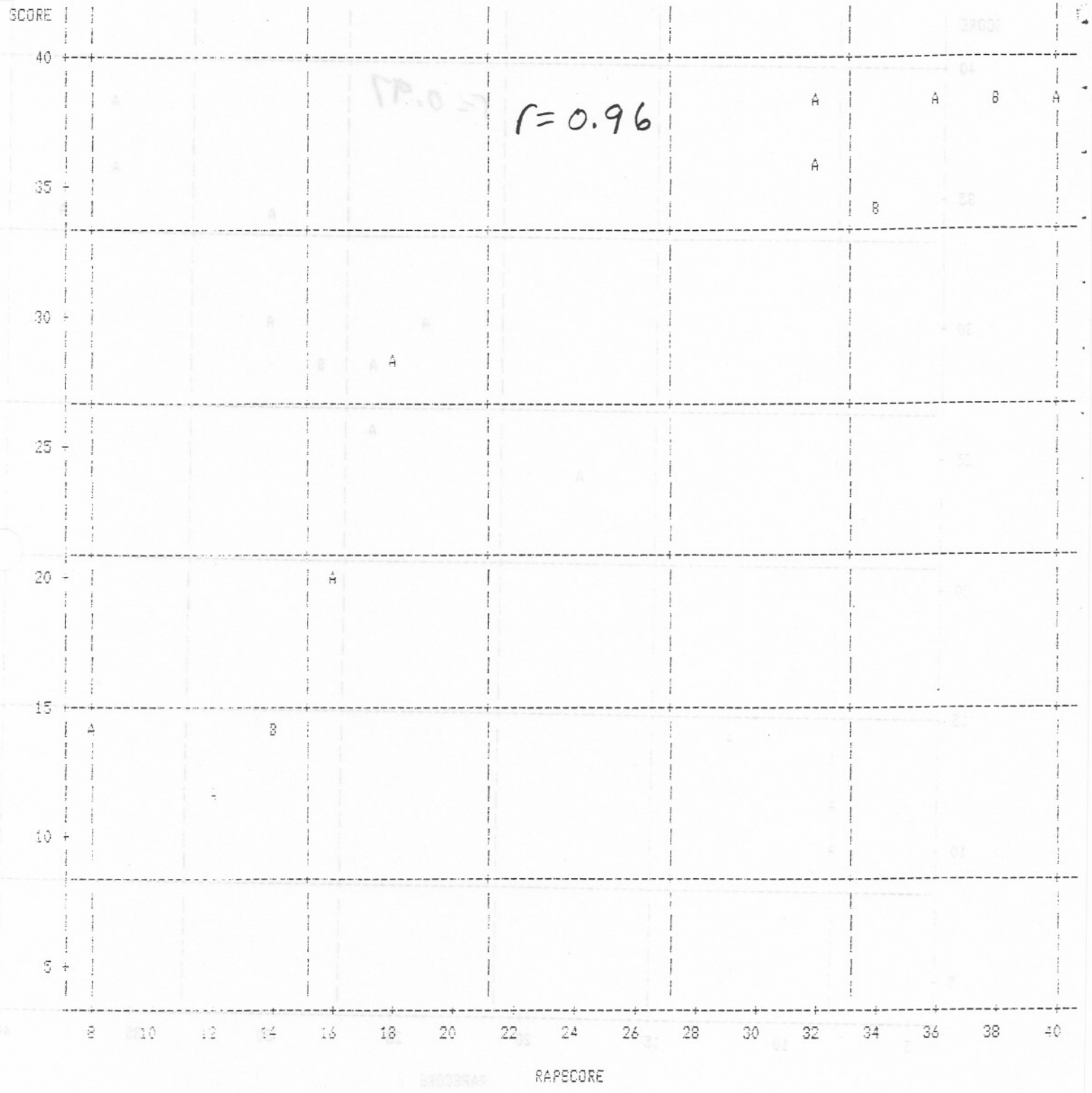
1994 Rapid Bio vs Standard

Figure 5. Run-of-River Reservoirs, Transition Zones (Spring Collections)

Correlations

RESTYPE=MAIN WBDSECNA=TRANSITION

Plot of SCORE*RAPSCORE. Legend: A = 1 obs, B = 2 obs, etc.



1994 Rapid Bio vs Standard

Figure 6. Run-of-River Reservoirs, Inflows

Correlations

RESTYPE=MAIN WBDSECNA=INFLOW

Plot of SCORE*RAPSCORE. Legend: A = 1 obs, B = 2 obs, etc.

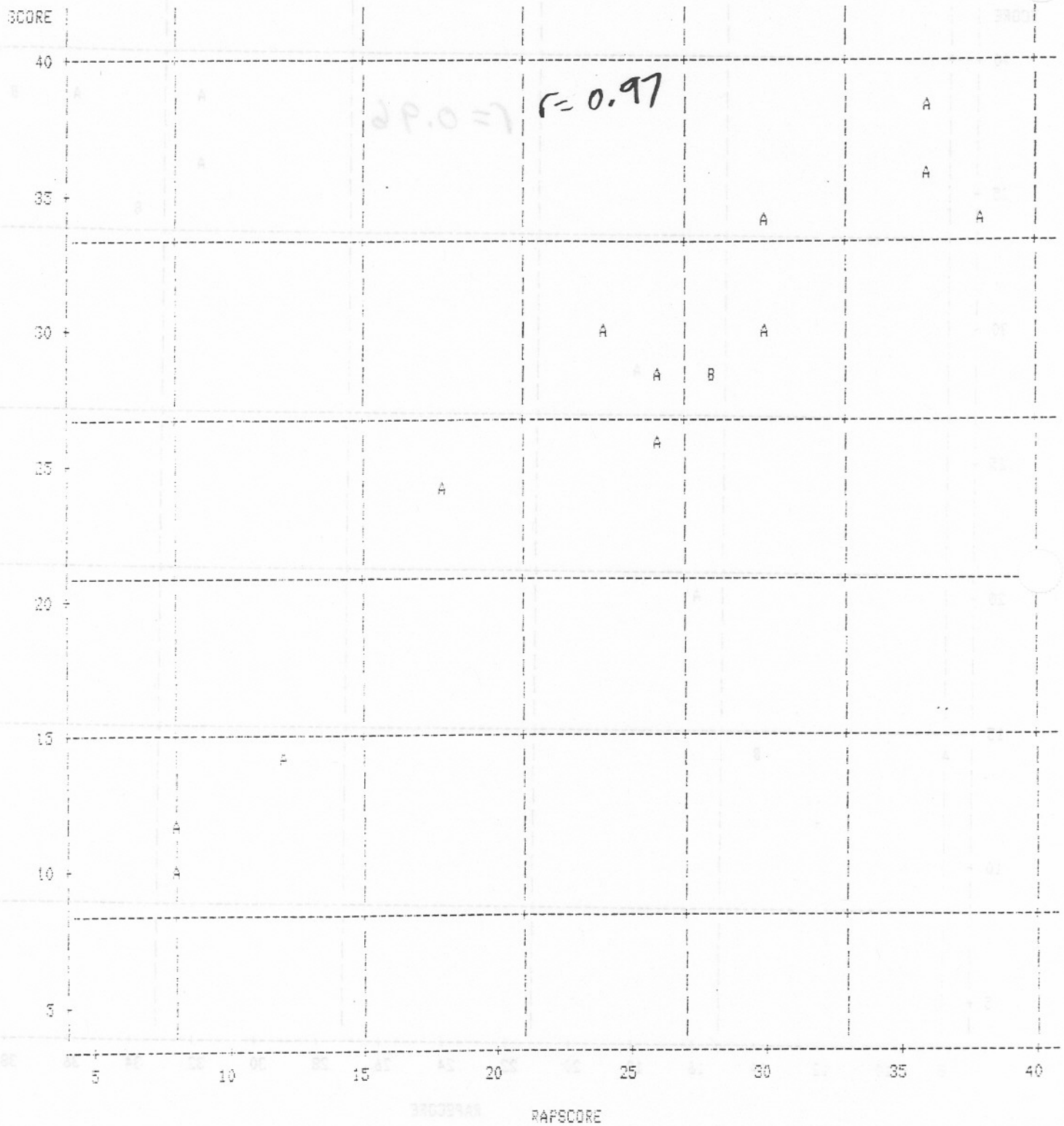


Table 1. Comparison of Benthos Scores -- Fall 1994 Sampling and Spring 1994 Sampling -- For Specific Reservoirs

RESTYPE=MAIN W8DSECNA=FOREBAY

RESVORNA	SITE		YEAR	BENIBI	RAPSCORE	TAXRAP	LONRAP	EPTRAP	NCTRAP	CHIRAP	TUBRAP	DOMRAP	ZERRAP
BEAR CREEK	PICK_EMBA_	8.4	94		16	3	1	1	1	1	3	1	5
CHICKAMAUGA	CHIC_FORE_	472.3	94		34	5	5	3	3	3	5	5	5
CHICKAMAUGA	CHIC_FORE_	472.3	94	FALL	38	5	5	3	5	5	5	5	5
CHICKAMAUGA	CHIC_FOREQ	472.3	94		34	5	5	3	5	5	1	5	5
FORT LOUDOUN	FORT_FORE_	605.5	94		14	1	1	1	1	3	1	1	5
GUNTERSVILLE	GUNT_FORE_	350	94		28	3	5	3	3	3	3	3	5
KENTUCKY	KENT_EMBA_	7.4	94		22	5	3	1	1	1	5	1	5
KENTUCKY	KENT_FORE_	23	94		28	5	5	1	3	3	1	5	5
MELTON HILL	MELT_FORE_	24	94		14	1	3	3	1	1	3	1	1
NICKAJACK	NICK_FORE_	425.5	94		36	3	5	5	3	5	5	5	5
NICKAJACK	NICK_FORE_	425.5	94	FALL	38	5	5	3	5	5	5	5	5
NICKAJACK	NICK_FOREQ	425.5	94		36	3	5	5	3	5	5	5	5
PICKWICK	PICK_FORE_	207.3	94		34	3	3	3	5	5	5	5	5
TELLICO	TELL_FORE_	1	94		8	1	1	1	1	1	1	1	1
WATTS BAR	WATT_FORE_	531	94		10	1	3	1	1	1	1	1	1
WHEELER	WHEE_FORE_	277	94		18	3	3	1	1	1	3	1	5
WILSON	WILS_FORE_	260.8	94		20	3	3	1	1	1	5	1	5

RESTYPE=MAIN W8DSECNA=INFLOW

RESVORNA	SITE		YEAR	BENIBI	RAPSCORE	TAXRAP	LONRAP	EPTRAP	NCTRAP	CHIRAP	TUBRAP	DOMRAP	ZERRAP
CHICKAMAUGA	CHIC_INFL_	518	94		26	1	5	1	3	5	5	1	5
CHICKAMAUGA	CHIC_INFL_	518	94	FALL	26	1	5	1	3	5	5	1	5
FORT LOUDOUN	FORT_INFL_	652	94		8	1	1	1	1	1	1	1	1
GUNTERSVILLE	GUNT_INFL_	420	94		30	3	5	1	3	5	5	3	5
KENTUCKY	KENT_INFL_	15	94		26	3	5	1	1	5	3	3	5
KENTUCKY	KENT_INFL_	200	94		28	3	5	1	1	5	3	5	5
MELTON HILL	MELT_INFL_	58.8	94		8	1	1	1	1	1	1	1	1
NICKAJACK	NICK_INFL_	469	94		38	5	5	5	5	5	5	3	5
NICKAJACK	NICK_INFL_	469	94	FALL	38	5	5	5	5	5	5	3	5
NICKAJACK	NICK_INFLQ	469	94		36	5	5	5	3	5	5	3	5
PICKWICK	PICK_INFL_	253.2	94		28	3	3	3	1	5	5	3	5
PICKWICK	PICK_INFLQ	253.2	94		24	3	3	1	1	5	5	1	5
WATTS BAR	WATT_INFL_	19	94		12	1	3	1	1	1	3	1	1
WATTS BAR	WATT_INFL_	600	94		18	1	1	1	1	3	5	1	5
WHEELER	WHEE_INFL_	347	94		36	5	5	3	3	5	5	5	5
WILSON	WILS_INFL_	270	94		30	3	5	1	3	5	5	3	5

RESTYPE=MAIN W8DSECNA=TRANSITION

RESVORNA	SITE		YEAR	BENIBI	RAPSCORE	TAXRAP	LONRAP	EPTRAP	NCTRAP	CHIRAP	TUBRAP	DOMRAP	ZERRAP
CHICKAMAUGA	CHIC_EMBA_	8.5	94		18	1	3	3	1	5	1	3	1
CHICKAMAUGA	CHIC_EMBA_	8.5	94	FALL	36	5	5	5	3	5	3	5	5
CHICKAMAUGA	CHIC_EMBAQ	8.5	94		16	1	3	1	1	5	1	3	1
CHICKAMAUGA	CHIC_TRAN_	490.5	94		38	5	5	5	3	5	5	5	5
CHICKAMAUGA	CHIC_TRAN_	490.5	94	FALL	38	5	5	5	5	5	5	5	5
CHICKAMAUGA	CHIC_TRANQ	490.5	94		40	5	5	5	5	5	5	5	5
FORT LOUDOUN	FORT_TRAN_	624.3	94		14	1	3	1	1	1	1	1	5
GUNTERSVILLE	GUNT_TRAN_	375.2	94		38	5	5	5	5	5	5	5	5
KENTUCKY	KENT_TRAN_	35	94		34	3	5	3	3	5	5	5	5

All scores based on field identifications (rapid bioassessment protocols)

Table 2. Sorensen's Quotient of Similarity

Sheet1

		CHIC	CHIF				
		IN	IN				
CHIC	IN	1.00					
CHIF	IN	0.42	1.00				
		CHIC	CHIF	CHIQ			
		EM	EM	EM			
CHIC	EM	1.00					
CHIF	EM	0.63	1.00				
CHIQ	EM	0.68	0.76	1.00			
		CHIC	CHIF	CHIQ			
		FO	FO	FO			
CHIC	FO	1.00					
CHIF	FO	0.52	1.00				
CHIQ	FO	0.75	0.62	1.00			
		CHIC	CHIF	CHIQ			
		TR	TR	TR			
CHIC	TR	1.00					
CHIF	TR	0.68	1.00				
CHIQ	TR	0.75	0.67	1.00			
		NICF	NICK	NICQ			
		FO	FO	FO			
NICF	FO	1.00					
NICK	FO	0.61	1.00				
NICQ	FO	0.69	0.65	1.00			
		NICF	NICK	NICQ			
		IN	IN	IN			
NICF	IN	1.00					
NICK	IN	0.57	1.00				
NICQ	IN	0.55	0.62	1.00			

Section 4

Benthic Macroinvertebrate Community

Appendix B.

Mean Density for Each Species at Each Sample Location in 1994

OBS	STREAM	STREAMMI	STREAMMI	SAMCNT	SITECNT	SUMAREA	LATD	LATM	LATS	LONGD	LONGM
1	BEAR CR	8.4	8.4	10	1	0.60	34	49	12	88	5
2	BEAR CR	75.0	75.0	10	2	0.60	34	23	56	87	58
3	BEECH R	36.0	36.0	10	3	0.60	35	40	31	88	25
4	TOCCOA R	54.1	54.1	20	4	1.20	34	52	12	84	16
5	S FK HOLSTON R	19.0	19.0	10	5	0.85	36	26	18	82	26
6	S FK HOLSTON R	27.0	27.0	10	6	1.10	36	28	9	82	20
7	WATAUGA R	6.5	6.5	10	7	0.65	36	24	48	82	22
8	CEDAR CR	25.2	25.2	10	8	0.60	34	32	14	87	57
9	HIWASSEE R	122.0	122.0	10	9	0.70	35	0	21	83	47
10	SHOOTING CR	1.5	1.5	10	10	0.70	35	1	14	83	46
11	HOLSTON R	53.0	53.0	10	11	0.60	36	10	1	83	29
12	HOLSTON R	91.0	91.0	10	12	0.60	36	21	29	83	10
13	TENNESSEE	472.3	472.3	20	13	1.20	35	6	13	85	12
14	TENNESSEE	490.5	490.5	20	14	1.20	35	17	55	85	4
15	TENNESSEE	518.0	518.0	10	15	0.60	35	32	16	84	52
16	HIWASSEE R	8.5	8.5	20	16	1.20	35	21	38	84	53
17	FRENCH BROAD R	33.0	33.0	10	17	0.60	35	57	52	83	31
18	FRENCH BROAD R	51.0	51.0	10	18	0.60	35	59	49	83	15
19	LITTLE TENNESSEE R	81.5	81.5	10	19	0.65	35	24	36	83	33
20	TUCKASEGEE R	3.0	3.0	10	20	0.60	35	26	27	83	33
21	TENNESSEE	605.5	605.5	10	21	0.65	35	45	46	84	12
22	TENNESSEE	624.6	624.6	10	22	0.60	35	49	49	84	3
23	TENNESSEE	652.0	652.0	10	23	1.10	35	57	31	83	51
24	S FK HOLSTON R	8.7	8.7	10	24	0.60	36	30	10	82	30
25	TENNESSEE	350.0	350.0	10	25	0.60	34	25	25	86	22
26	TENNESSEE	375.2	375.2	10	26	0.60	34	33	15	86	7
27	TENNESSEE	420.0	420.0	10	27	1.10	35	1	45	85	40
28	HIWASSEE R	77.0	77.0	10	28	0.70	35	9	58	84	10
29	HIWASSEE R	85.0	85.0	20	29	1.55	35	6	27	84	8
30	HIWASSEE R	90.0	90.0	10	30	0.60	35	5	31	84	5
31	TENNESSEE	15.0	15.0	10	31	1.10	37	3	37	88	22
32	TENNESSEE	23.0	23.0	10	32	0.60	37	0	12	88	15
33	TENNESSEE	85.0	85.0	20	33	1.20	36	12	33	87	56
34	TENNESSEE	200.0	200.0	10	34	1.10	35	7	39	88	18
35	BIG SANDY R	7.4	7.4	10	35	0.60	36	20	31	88	5
36	LITTLE BEAR CR	12.5	12.5	20	36	1.20	34	27	14	87	58
37	CLINCH R	24.0	24.0	10	37	0.60	35	52	43	84	17
38	CLINCH R	45.0	45.0	10	38	0.60	35	59	30	84	10
39	CLINCH R	58.8	58.8	10	39	1.00	36	5	45	84	7
40	TENNESSEE	425.5	425.5	20	40	1.20	35	0	3	85	36
41	TENNESSEE	469.0	469.0	20	41	2.20	35	5	46	85	15
42	DUCK R	249.5	249.5	10	42	0.60	35	28	21	86	14
43	CLINCH R	80.4	80.4	10	43	1.10	36	13	46	84	5
44	CLINCH R	125.0	125.0	10	44	0.65	36	21	37	83	41
45	POWELL R	30.0	30.0	10	45	0.60	36	24	36	83	50
46	NOTTELY R	23.5	23.5	10	46	0.85	34	56	17	84	5
47	NOTTELY R	31.0	31.0	20	47	2.20	34	54	31	84	2
48	OCOEE R	12.5	12.5	20	48	1.20	35	5	54	84	38
49	TENNESSEE	207.3	207.3	10	49	0.60	35	4	14	88	14
50	TENNESSEE	230.0	230.0	10	50	0.70	34	53	49	88	0
51	TENNESSEE	253.2	253.2	20	51	2.20	34	45	43	87	43
52	S FK HOLSTON R	51.0	51.0	10	52	1.10	36	31	31	82	4
53	S FK HOLSTON R	62.5	62.5	10	53	1.05	36	35	26	82	0
54	LITTLE TENNESSEE R	1.0	1.0	10	54	0.60	35	46	21	84	15
55	LITTLE TENNESSEE R	15.0	15.0	10	55	0.60	35	38	0	84	15
56	ELK R	135.0	135.0	10	56	0.60	35	13	4	86	16
57	ELK R	150.0	150.0	10	57	0.60	35	12	58	86	11
58	WATAUGA R	37.4	37.4	10	58	1.10	36	18	53	82	7
59	WATAUGA R	45.5	45.5	20	59	1.20	36	19	52	81	59
60	TENNESSEE	531.0	531.0	10	60	0.60	35	36	10	84	47
61	TENNESSEE	560.8	560.8	10	61	0.60	35	49	50	84	36
62	TENNESSEE	600.0	600.0	10	62	1.10	35	46	30	84	16
63	CLINCH R	19.0	19.0	10	63	1.10	35	53	57	84	21
64	TENNESSEE	277.0	277.0	10	64	0.60	34	48	42	87	20
65	TENNESSEE	295.9	295.9	10	65	0.60	34	40	58	87	6
66	TENNESSEE	347.0	347.0	10	66	1.10	34	26	24	86	25
67	ELK R	6.0	6.0	10	67	0.60	34	48	53	87	12
68	TENNESSEE	260.8	260.8	10	68	0.60	34	48	55	87	36
69	TENNESSEE	273.0	273.0	10	69	0.65	34	48	2	87	24

VS 94 DENSITY/SQ.METER BY SITE

RESVORNA	BEAR C	BEAR C
STREAM	BEAR C	BEAR C
STREAMMI	8.4	75.0
SPECIES		
Nematoda	7	23
Oligochaeta		
Haplotaxida		
Tubificidae	280	40
Branchiura sowerbyi	43	.
Limnodrilus hoffmeisteri	7	.
Insecta		
Ephemeroptera		
Ephemeridae		
Hexagenia limbata	.	3
Trichoptera		
Leptoceridae		
Ceraclea sp.	.	2
Oecetis sp.	.	2
Diptera		
Ceratopogonidae		
Bezzia sp.	3	3
Chironomidae	2	13
Ablabesmyia annulata	2	3
Ablabesmyia sp.	.	2
Chironomus sp.	167	62
Coelotanypus tricolor	168	.
Einfeldia sp.	447	.
Glyptotendipes sp.	.	2
Nilotanypus sp.	.	2
Pagastiella sp.	.	2
Phaenopsectra sp.	.	12
Procladius sp.	65	68
Zalutschia zalutschicola	.	2
Arachnoidea		
Hydrachnellae		
Hygrobatidae		
Atractides sp.	2	.
Unionicolidae		
Unionicola sp.	2	.
Bivalvia		
Veneroida		
Corbiculidae		
Corbicula fluminea	2	.
Sphaeriidae	5	.
Number of samples	10	10
Sum	1202	241
Number of species	15	16
Number of ept taxa	0	3
Sum of area	0.60	0.60

VS 94 DENSITY/SQ.METER BY SITE

	RESVORNA	BEECH
	STREAM	BEECH
	STREAMMI	36.0
SPECIES		
ɔmatoda		27
igochaeta		
Haplotaxida		
Tubificidae		67
Limnodrilus hoffmeisteri		13
Insecta		
Ephemeroptera		
Ephemeridae		
Hexagenia limbata		3
Trichoptera		
Leptoceridae		
Oecetis sp.		3
Diptera		
Ceratopogonidae		
Bezzia sp.		30
Chironomidae		10
Ablabesmyia annulata		3
Chironomus sp.		848
Coelotanypus sp.		35
Cryptochironomus fulvus		15
Glyptotendipes sp.		507
Procladius sp.		53
Arachnoidea		
Hydrachnellae		8
Bivalvia		
Veneroida		
Sphaeriidae		22
Number of samples		10
Sum		1644
Number of species		15
Number of ept taxa		2
Sum of area		0.60

VS 94 DENSITY/SQ.METER BY SITE

	RESVORNA STREAM STREAMMI	BLUE R TOCCOA 54.1
SPECIES		
Nematoda		3
Oligochaeta		
Haplotaxida		
Tubificidae		106
Limnodrilus hoffmeisteri		18
Quistadrilus multisetosus		10
Crustacea		
Amphipoda		
Crangonyctidae		
Crangonyx sp.		2
Insecta		
Ephemeroptera		
Ephemeridae		
Hexagenia limbata		13
Trichoptera		
Leptoceridae		
Oecetis sp.		1
Diptera		
Ceratopogonidae		
Bezzia sp.		8
Chironomidae		
Chironomus sp.		71
Cryptochironomus sp.		1
Dicrotendipes sp.		1
Polypedilum halterale		1
Procladius sp.		42
Bivalvia		
Veneroida		
Sphaeriidae		136
Number of samples		20
Sum		413
Number of species		14
Number of ept taxa		2
Sum of area		1.20

VS 94 DENSITY/SQ.METER BY SITE

SPECIES	RESVORNA STREAM STREAMMI	BOONE S FK H 19.0	BOONE S FK H 27.0	BOONE WATAUG 6.5
›matoda		1	.	2
.igochaeta				
Haplotaxida				
Tubificidae		431	134	102
Limnodrilus sp.		114	.	.
Limnodrilus hoffmeisteri		255	180	35
Crustacea				
Amphipoda				
Gammaridae				
Gammarus sp.		1	.	.
Insecta				
Diptera				
Chironomidae		.	1	.
Chironomus sp.		28	136	25
Cryptochironomus sp.		.	1	3
Dicrotendipes sp.		.	1	.
Harnischia sp.		.	.	2
Phaenopsectra sp.		.	.	2
Polypedilum sp.		.	1	.
Procladius sp.		13	3	38
Tanytarsus sp.		.	1	2
Tribelos sp.		.	2	.
Arachnoidea				
Hydrachnellae				
Hygrobatidae				
Atractides sp.		1	.	2
Gastropoda				
Basommatophora				
Physidae				
Physella sp.		1	.	.
Bivalvia				
Veneroida				
Corbiculidae				
Corbicula fluminea		.	.	17
Sphaeriidae		.	.	6
Number of samples		10	10	10
Sum		845	460	236
Number of species		9	10	12
Number of ept taxa		0	0	0
Sum of area		0.85	1.10	0.65

VS 94 DENSITY/SQ.METER BY SITE

	RESVORNA STREAM STREAMMI	CEDAR CEDAR 25.2
SPECIES		
Nematoda		17
Oligochaeta		
Haplotaxida		
Naididae		
Nais communis		2
Tubificidae		147
Branchiura sowerbyi		12
Limnodrilus hoffmeisteri		18
Insecta		
Ephemeroptera		
Ephemeridae		
Hexagenia limbata		25
Trichoptera		
Leptoceridae		
Oecetis sp.		2
Diptera		
Ceratopogonidae		
Bezzia sp.		5
Chironomidae		8
Ablabesmyia sp.		3
Axarus sp.		3
Chironomus sp.		70
Coelotanypus tricolor		2
Cryptochironomus sp.		13
Dicrotendipes sp.		2
Pagastiella sp.		7
Polypedilum sp.		18
Procladius sp.		7
Tanytarsus sp.		3
Tribelos sp.		2
Bivalvia		
Veneroida		
Corbiculidae		
Corbicula fluminea		3
Sphaeriidae		75
Number of samples		10
Sum		444
Number of species		22
Number of ept taxa		2
Sum of area		0.60

VS 94 DENSITY/SQ.METER BY SITE

SPECIES	RESVORNA STREAM STREAMMI 122.0	CHATUG HIWASS 1.5
:matoda	1	19
Oligochaeta		
Haplotaxida		
Naididae		
Arcteonais lomondi	.	20
Tubificidae	127	141
Aulodrilus pigueti	1	.
Limnodrilus hoffmeisteri	9	6
Insecta		
Ephemeroptera		
Ephemeridae		
Hexagenia limbata	4	6
Trichoptera		
Leptoceridae		
Oecetis sp.	.	1
Megaloptera		
Sialidae		
Sialis sp.	.	3
Diptera		
Ceratopogonidae		
Bezzia sp.	.	1
Chironomidae		
Ablabesmyia annulata	.	1
Chironomus sp.	27	80
Cladotanytarsus sp.	3	4
Coelotanypus tricolor	4	9
Cryptochironomus sp.	6	.
Polypedilum sp.	.	1
Procladius sp.	31	51
Tanytarsus sp.	3	4
Zalutschia zalutschicola	71	141
Bivalvia		
Veneroida		
Sphaeriidae	.	1
Number of samples	10	10
Sum	287	489
Number of species	12	17
Number of ept taxa	1	2
Sum of area	0.70	0.70

VS 94 DENSITY/SQ.METER BY SITE

SPECIES	RESVORNA STREAM STREAMMI	CHEROK HOLSTO 53.0	CHEROK HOLSTO 91.0
Nematoda		2	.
Oligochaeta			
Haplotaxida			
Enchytraeidae		.	2
Tubificidae		158	205
Branchiura sowerbyi		2	2
Limnodrilus sp.		.	35
Limnodrilus hoffmeisteri		38	2
Insecta			
Odonata			
Gomphidae			
Gomphus sp.		.	2
Ephemeroptera			
Ephemeridae			
Hexagenia limbata		2	95
Diptera			
Ceratopogonidae			
Bezzia sp.		2	.
Chironomidae		3	3
Ablabesmyia annulata		2	8
Chironomus sp.		198	17
Coelotanypus tricolor		.	7
Cryptochironomus sp.		3	17
Epoicocladius sp.		.	7
Polypedilum sp.		.	3
Procladius sp.		40	10
Tipulidae			
Pseudolimnophila sp.		.	2
Coleoptera			
Elmidae			
Dubiraphia sp.		.	2
Arachnoidea			
Hydrachnellae			
Hygrobatidae			
Atractides sp.		.	3
Bivalvia			
Veneroida			
Sphaeriidae		.	5
Number of samples		10	10
Sum		450	427
Number of species		11	19
Number of ept taxa		1	1
Sum of area		0.60	0.60

VS 94 DENSITY/SQ.METER BY SITE

SPECIES	RESVORNA STREAM STREAMMI 472.3	CHICKA TENNE 490.5	CHICKA TENNE 518.0	CHICKA HIWASS 8.5
Nematoda	.	.	.	6
Hydrozoa				
Hydroida				
Hydridae				
Hydra americana	.	.	7	.
Turbellaria				
Tricladida				
Planariidae				
Dugesia tigrina	.	.	12	.
Oligochaeta				
Haplotaxida				
Naididae				
Nais sp.	.	1	.	.
Nais bretscheri	.	.	.	1
Tubificidae	219	148	10	168
Aulodrilus pigueti	1	.	.	.
Branchiura sowerbyi	15	10	.	9
Limnodrilus sp.	.	.	.	18
Limnodrilus hoffmeisteri	.	.	5	.
Hirudinea	1	.	.	1
Rhynchobdellida				
Glossiphoniidae				
Helobdella stagnalis	.	2	.	.
Pharyngobdellida				
Erpobdellidae	.	.	.	2
Crustacea				
Isopoda				
Asellidae				
Lirceus sp.	.	.	.	1
Amphipoda				
Gammaridae				
Gammarus sp.	5	3	302	.
Talitridae				
Hyalella azteca	.	1	.	.
Insecta				
Ephemeroptera				
Baetidae				
Baetis sp.	.	.	.	2
Caenidae				
Caenis sp.	.	1	.	.
Ephemeridae				
Hexagenia sp.	.	.	.	1
Hexagenia limbata	77	371	.	103
Trichoptera				
Leptoceridae				
Oecetis sp.	.	.	.	1
Polycentropodidae				
Cyrnellus fraternus	.	2	.	.
Megaloptera				
Sialidae				
Sialis sp.	.	1	.	.
Diptera				
Ceratopogonidae				
Bezzia sp.	.	.	.	4
Chironomidae	1	2	.	3
Ablabesmyia annulata	34	37	.	9
Axarus sp.	3	.	.	.
Chironomus sp.	6	36	.	8
Coelotanypus sp.	54	6	.	.
Coelotanypus tricolor	261	190	.	7
Cricotopus sp.	.	1	.	1
Cryptochironomus sp.	6	11	.	9
Dicrotendipes sp.	1	8	.	.
Einfeldia sp.	38	.	.	.
Epoicocladius sp.	.	2	.	5
Microtendipes sp.	.	1	.	1
Parachironomus sp.	.	.	.	1
Polypedilum sp.	.	.	.	8
Procladius sp.	42	86	.	1
Rheotanytarsus sp.	.	1	.	.
Stictochironomus sp.	.	.	2	.
Tanytarsus sp.	.	.	.	4
Tribelos sp.	.	.	2	.
Simuliidae				
Simulium sp.	.	.	.	4
Coleoptera				
Elmidae				
Dubiraphia sp.	.	1	.	.
Arachnoidea				
Hydrachnellae				
Eylaidae				
Eylais sp.	.	9	.	.
Hygrobatidae				
Hygrobates sp.	1	.	.	.
Unionicolidae				
Unionicola sp.	2	.	.	.
Gastropoda				
Mesogastropoda				
Pleuroceridae				
Leptoxis praerosa	5	.	.	1
Viviparidae				
Viviparus sp.	2	.	.	.
Bivalvia				

Veneroida				
Corbiculidae				
Corbicula fluminea	145	174	115	13
Sphaeriidae	4	83	.	158
Musculium transversum	48	77	2	.
Number of samples	20	20	10	20
Sum	971	1265	457	550
Number of species	23	27	9	29
Number of ept taxa	1	3	0	4
Sum of area	1.20	1.20	0.60	1.20

VS 94 DENSITY/SQ.METER BY SITE

SPECIES	RESVORNA STREAM FRENCH STREAMMI 33.0	DOUGLA FRENCH 51.0
ematoda	2	.
Oligochaeta		
Haplotaxida		
Tubificidae	97	100
Branchiura sowerbyi	.	8
Limnodrilus hoffmeisteri	27	10
Insecta		
Diptera		
Chironomidae	5	2
Chironomus sp.	117	147
Cryptochironomus sp.	.	5
Dicrotendipes sp.	.	2
Phaenopsectra sp.	.	7
Procladius sp.	110	25
Rheotanytarsus sp.	.	2
Number of samples	10	10
Sum	358	308
Number of species	6	10
Number of ept taxa	0	0
Sum of area	0.60	0.60

VS 94 DENSITY/SQ.METER BY SITE

SPECIES	RESVORNA STREAM STREAMMI	FONTAN LITTLE 81.5	FONTAN TUCKAS 3.0
Oligochaeta			
Haplotaxida			
Tubificidae		335	1057
Branchiura sowerbyi		5	.
Limnodrilus hoffmeisteri		43	15
Crustacea			
Amphipoda			
Crangonyctidae			
Crangonyx sp.		.	3
Insecta			
Diptera			
Chironomidae			
Chironomus sp.		454	460
Cryptochironomus sp.		2	.
Polypedilum sp.		3	8
Procladius sp.		17	33
Arachnoidea			
Hydrachnellae			
Hygrobatidae			
Atractides sp.		2	.
Number of samples		10	10
Sum		861	1576
Number of species		8	6
Number of ept taxa		0	0
Sum of area		0.65	0.60

VS 94 DENSITY/SQ.METER BY SITE

RESVORNA STREAM STREAMMI	FORT L TENNE 605.5	FORT L TENNE 624.6	FORT L TENNE 652.0
SPECIES			
ematoda	.	.	2
ligochaeta			
Haplotaxida			
Tubificidae	89	72	62
Branchiura sowerbyi	5	17	.
Limnodrilus hoffmeisteri	12	28	24
Lumbriculida			
Lumbriculidae	2	.	5
Crustacea			
Amphipoda			
Gammaridae			
Gammarus sp.	.	.	2
Insecta			
Odonata			
Gomphidae	.	2	.
Gomphus sp.	.	.	2
Ephemeroptera			
Ephemeridae			
Hexagenia limbata	5	15	.
Heteroptera			
Corixidae	.	2	.
Trichoptera			
Brachycentridae			
Brachycentrus sp.	.	.	1
Hydropsychidae			
Cheumatopsyche sp.	.	.	1
Psychomyiidae			
Psychomyia flavida	.	.	1
Diptera			
Ceratopogonidae			
Bezzia sp.	.	2	.
Chironomidae			
Ablabesmyia annulata	2	23	.
Chironomus sp.	228	342	.
Coelotanypus sp.	2	.	.
Coelotanypus tricolor	57	17	.
Cricotopus sp.	.	.	1
Cryptochironomus sp.	11	8	3
Epoicocladius sp.	.	2	.
Glyptotendipes sp.	2	.	.
Phaenopsectra sp.	.	.	2
Polypedilum sp.	.	.	7
Procladius sp.	55	62	.
Xenochironomus xenolabis	.	.	1
Simuliidae			
Simulium sp.	.	.	1
Bivalvia			
Veneroida			
Corbiculidae			
Corbicula fluminea	17	10	151
Sphaeriidae			
Musculium transversum	.	50	.
Number of samples	10	10	10
Sum	487	652	266
Number of species	13	15	16
Number of ept taxa	1	1	3
Sum of area	0.65	0.60	1.10

VS 94 DENSITY/SQ.METER BY SITE

	RESVORNA STREAM STREAMMI	FORT P S FK H 8.7
SPECIES		
Oligochaeta		
Haplotaxida		
Tubificidae		107
Limnodrilus hoffmeisteri		77
Crustacea		
Isopoda		
Asellidae		
Caecidotea sp.		3
Insecta		
Diptera		
Chironomidae		
Chironomus sp.		137
Cryptochironomus sp.		2
Glyptotendipes sp.		2
Procladius sp.		70
Bivalvia		
Veneroida		
Corbiculidae		
Corbicula fluminea		3
Number of samples		10
Sum		401
Number of species		8
Number of ept taxa		0
Sum of area		0.60

VS 94 DENSITY/SQ.METER BY SITE

SPECIES	RESVORNA STREAM STREAMMI 350.0	GUNTER TENNE 375.2	GUNTER TENNE 420.0
ydrozoa			
Hydroida			
Hydridae			
Hydra americana	.	.	1
Turbellaria			
Tricladida			
Planariidae			
Dugesia tigrina	.	.	64
Oligochaeta			
Haplotaxida			
Naididae	.	.	7
Tubificidae	102	52	49
Branchiura sowerbyi	10	12	.
Limnodrilus hoffmeisteri	3	.	3
Lumbriculida			
Lumbriculidae	.	3	.
Hirudinea	.	.	5
Rhynchobdellida			
Glossiphoniidae			
Helobdella stagnalis	10	15	.
Placobdella montifera	3	2	.
Crustacea			
Isopoda			
Asellidae			
Lirceus sp.	.	.	8
Amphipoda			
Gammaridae			
Gammarus sp.	.	7	160
Talitridae			
Hyalella azteca	.	218	.
Insecta			
Ephemeroptera			
Ephemeridae			
Hexagenia limbata	68	195	4
Heptageniidae			
Stenacron interpunctatum	.	.	5
Trichoptera			
Leptoceridae			
Ceraclea sp.	.	.	2
Megaloptera			
Sialidae			
Sialis sp.	.	.	2
Diptera			
Ceratopogonidae			
Bezzia sp.	.	.	4
Chironomidae	2	2	5
Ablabesmyia annulata	33	18	1
Ablabesmyia mallochi	.	3	.
Chironomus sp.	.	5	3
Coelotanypus tricolor	278	127	4
Cryptochironomus sp.	8	33	3
Dicrotendipes sp.	5	60	3
Einfeldia sp.	43	5	.
Epoicocladius sp.	2	2	.
Harnischia sp.	.	.	1
Polypedilum sp.	.	.	5
Procladius sp.	32	47	3
Pseudochironomus sp.	.	.	4
Rheotanytarsus sp.	.	3	.
Coleoptera			
Elmidae			
Dubiraphia sp.	.	.	1
Arachnoidea			
Hydrachnellae			
Unionicolidae			
Unionicola sp.	.	3	.
Gastropoda			
Mesogastropoda			
Pleuroceridae			
Lithasia verrucosa	.	.	5
Pleurocera sp.	.	.	2
Viviparidae			
Campeloma sp.	.	.	3
Viviparus sp.	.	2	.
Basommatophora			
Physidae			
Physella sp.	.	2	.
Bivalvia			
Unionoida			
Unionidae			
Cyclonaias tuberculata	.	2	.
Potamilus alatus	.	2	.
Veneroida			
Corbiculidae			
Corbicula fluminea	127	328	196
Sphaeriidae			
Eupera cubensis	12	13	.
Musculium transversum	.	123	.
Number of samples	10	10	10
Sum	738	1284	553
Number of species	16	27	28
Number of ept taxa	1	1	3

Sum of area	0.60	0.60	1.10

VS 94 DENSITY/SQ.METER BY SITE

RESVORNA STREAM HIWASS STREAMMI 77.0	HIWASS 85.0	HIWASS 90.0
SPECIES		
igochaeta		
Haplotaxida		
Naididae	.	1	.
Slavina appendiculata	.	1	.
Stylaria lacustris	1	1	.
Tubificidae	51	385	167
Limnodrilus hoffmeisteri	.	1	30
Crustacea			
Amphipoda			
Corophiidae			
Corophium lacustre	.	1	.
Crangonyctidae			
Crangonyx sp.	10	4	.
Insecta			
Odonata			
Macromiidae			
Macromia sp.	.	1	.
Ephemeroptera			
Ephemeridae			
Hexagenia limbata	.	1	2
Trichoptera			
Leptoceridae			
Oecetis sp.	.	1	.
Diptera			
Ceratopogonidae			
Bezzia sp.	.	.	2
Chironomidae			
Chironomus sp.	3	37	260
Cryptochironomus sp.	1	1	2
Microtendipes sp.	.	.	2
Phaenopsectra sp.	.	.	3
Polypedilum sp.	.	1	.
Polypedilum halterale	.	1	.
Procladius sp.	9	26	87
Tanytarsus sp.	1	.	.
Arachnoidea			
Hydrachnellae			
Hygrobatidae			
Atractides sp.	.	.	2
Gastropoda			
Basommatophora			
Planorbidae	.	1	.
alvia			
eneroida			
Corbiculidae			
Corbicula fluminea	.	.	2
Sphaeriidae	1	3	.
Number of samples	10	20	10
Sum	77	467	559
Number of species	8	17	11
Number of ept taxa	0	2	1
Sum of area	0.70	1.55	0.60

VS 94 DENSITY/SQ.METER BY SITE

SPECIES	RESVORNA STREAM STREAMMI	KENTUC TENNE 15.0	KENTUC TENNE 23.0	KENTUC TENNE 85.0	KENTUC TENNE 200.0	KENTUC BIG SA 7.4
Nematoda		2	.	5	.	15
Hydrozoa						
Hydroida						
Hydridae						
Hydra americana		.	.	.	1	.
Turbellaria						
Tricladida						
Planariidae						
Dugesia tigrina		.	.	.	7	.
Oligochaeta						
Haplotaxida						
Naididae						
Nais communis		.	.	.	1	.
Nais simplex		.	.	1	.	.
Tubificidae		8	205	193	5	62
Aulodrilus pigueti		.	.	.	.	2
Branchiura sowerbyi		.	.	2	.	45
Limnodrilus hoffmeisteri		.	20	11	.	.
Lumbriculida						
Lumbriculidae		14	.	1	18	.
Hirudinea		.	.	.	1	.
Rhynchobdellida						
Glossiphoniidae						
Helobdella stagnalis		.	10	.	.	.
Crustacea						
Isopoda						
Asellidae						
Caecidotea sp.		.	.	1	15	.
Lirceus sp.		4	.	.	.	.
Amphipoda						
Corophiidae						
Corophium lacustre		.	.	41	.	.
Talitridae						
Hyalella azteca		.	.	2	.	.
Decapoda						
Cambaridae		1	.	.	.	.
Insecta						
Odonata						
Macromiidae						
Macromia sp.		1	.	.	.	.
Ephemeroptera						
Caenidae						
Caenis sp.		.	.	2	.	.
Ephemeridae						
Hexagenia limbata		1	12	176	.	.
Heptageniidae						
Stenacron sp.		4	.	1	.	.
Stenacron interpunctatum		27	.	.	7	.
Trichoptera						
Leptoceridae						
Ceraclea sp.		3	.	.	2	.
Oecetis sp.		.	.	3	.	7
Polycentropodidae						
Cyrnellus fraternus		.	.	4	.	.
Megaloptera						
Sialidae						
Sialis sp.		.	.	.	.	2
Diptera						
Ceratopogonidae						
Bezzia sp.		.	.	.	.	35
Chironomidae		.	.	3	5	.
Ablabesmyia annulata		.	7	32	4	5
Ablabesmyia mallochi		.	.	2	.	.
Axarus sp.		14	.	2	.	.
Chironomus sp.		1	2	5	.	180
Coelotanypus tricolor		1	200	153	.	277
Cricotopus sp.		.	.	.	3	.
Cryptochironomus sp.		.	3	7	3	.
Dicrotendipes sp.		3	.	6	5	3
Einfeldia sp.		2	295	1	.	332
Epoicocladius sp.		.	.	2	.	.
Glyptotendipes sp.		.	.	.	2	2
Harnischia sp.		.	.	.	1	.
Hydrobaenus sp.		.	.	1	.	.
Nanocladius sp.		.	.	.	28	.
Parachironomus sp.		.	.	1	.	.
Polypedilum sp.		.	.	.	1	.
Procladius sp.		.	22	28	.	162
Psectrocladius sp.		.	.	5	.	.
Rheotanytarsus sp.		.	.	.	1	.
Tanytarsus sp.		.	2	.	.	10
Arachnoidea						
Hydrachnellae		.	.	2	.	.
Krendowskiidae						
Krendowskia similis		.	.	.	.	7
Unionicolidae						
Unionicola sp.		.	.	3	1	.
Gastropoda						
Mesogastropoda						
Hydrobiidae		.	.	1	.	.
Somatogyrus sp.		110	7	1	.	.
Pleuroceridae						
Leptoxis praerosa		.	7	.	18	.

Lithasia armigera	3	.	.	1	.
Lithasia sp.	6	.	.	.	.
Lithasia verrucosa	.	.	.	10	.
Pleurocera sp.	.	.	.	4	.
Pleurocera canaliculata	.	.	11	.	.
Viviparidae					
Campeloma sp.	3	.	6	.	.
Basommatophora					
Ancylidae					
Ferrissia rivularis	2	.	.	.	.
Planorbidae	.	.	.	.	10
Bivalvia					
Unionoida					
Unionidae					
Amblema plicata	1	.	.	.	.
Cyclonaias tuberculata	.	.	.	1	.
Ellipsaria lineolata	.	.	.	1	.
Fusconaia ebena	2	.	1	5	.
Megalonaias nervosa	.	2	.	.	.
Obliquaria reflexa	1	.	.	5	.
Pleurobema sp.	.	.	1	.	.
Quadrula metanevra	1	.	.	1	.
Quadrula pustulosa pustulo	1	.	.	4	.
Quadrula quadrula	1	.	.	.	.
Tritogonia verrucosa	.	.	.	1	.
Truncilla donaciformis	2	.	.	.	.
Truncilla truncata	1	.	.	.	.
Veneroida					
Corbiculidae					
Corbicula fluminea	113	55	219	49	.
Dreissenidae					
Dreissena polymorpha	.	2	.	.	.
Sphaeriidae	.	122	5	.	5
Musculium transversum	1	43	33	.	58
Pisidium sp.	.	25	.	.	.
Number of samples	10	10	20	10	10
Sum	334	1041	974	211	1219
Number of species	30	19	39	32	19
Number of ept taxa	4	1	5	2	1
Sum of area	1.10	0.60	1.20	1.10	0.60

VS 94 DENSITY/SQ.METER BY SITE

	RESVORNA	LITTLE
	STREAM	LITTLE
	STREAMMI	12.5
SPECIES		
Nematoda		5
Oligochaeta		
Haplotaxida		
Tubificidae		2132
Limnodrilus sp.		24
Limnodrilus hoffmeisteri		10
Crustacea		
Amphipoda		
Corophiidae		
Corophium lacustre		1
Insecta		
Ephemeroptera		
Caenidae		
Caenis sp.		1
Ephemeridae		
Hexagenia limbata		28
Megaloptera		
Sialidae		
Sialis sp.		2
Diptera		
Ceratopogonidae		
Bezzia sp.		1
Chironomidae		3
Ablabesmyia sp.		1
Chironomus sp.		98
Coelotanypus tricolor		3
Cryptochironomus sp.		2
Cryptochironomus fulvus		4
Dicrotendipes sp.		1
Epoicocladius sp.		1
Pagastiella sp.		6
Paramerina sp.		1
Polypedilum sp.		8
Procladius sp.		4
Tanytarsus sp.		2
Gastropoda		
Mesogastropoda		
Pleuroceridae		6
Pleurocera sp.		3
Bivalvia		
Veneroida		
Corbiculidae		
Corbicula fluminea		3
Sphaeriidae		3
Number of samples		20
Sum		2353
Number of species		26
Number of ept taxa		2
Sum of area		1.20

VS 94 DENSITY/SQ.METER BY SITE

RESVORNA STREAM STREAMMI	MELTON CLINCH 24.0	MELTON CLINCH 45.0	MELTON CLINCH 58.8
SPECIES			
ıatoda	18	5	7
igochaeta			
Haplotaxida			
Enchytraeidae	.	2	.
Naididae	.	2	.
Nais communis	.	5	.
Nais simplex	.	2	.
Vejdovskyella intermedia	.	2	.
Tubificidae	83	117	99
Branchiura sowerbyi	2	48	.
Limnodrilus hoffmeisteri	8	.	29
Insecta			
Ephemeroptera			
Ephemeridae			
Hexagenia limbata	12	5	.
Trichoptera			
Leptoceridae			
Oecetis sp.	.	2	.
Megaloptera			
Sialidae			
Sialis sp.	.	2	.
Diptera			
Ceratopogonidae			
Bezzia sp.	.	2	.
Chironomidae	2	5	.
Ablabesmyia annulata	13	2	.
Ablabesmyia sp.	.	2	.
Chaetocladius sp.	.	3	.
Chironomus sp.	177	135	73
Conchapelopia sp.	.	2	.
Cryptochironomus sp.	13	15	.
Dicrotendipes sp.	.	10	4
Glyptotendipes sp.	.	2	.
Harnischia sp.	12	.	.
Microtendipes sp.	2	.	1
Paratendipes sp.	.	.	10
Phaenopsectra sp.	.	.	47
Polypedilum sp.	.	62	3
Polypedilum halterale	.	7	.
Procladius sp.	55	77	.
Psectrocladius sp.	.	.	1
Rheotanytarsus sp.	.	2	.
Tanytarsus sp.	5	12	3
Tribelos sp.	.	2	.
Tvetenia discoloripes sp.	.	.	1
Coleoptera			
Ptilodactylidae			
Anchytarsus bicolor	.	2	.
Arachnoidea			
Hydrachnellae	2	.	.
Unionicolidae			
Neumania sp.	.	2	.
Bivalvia			
Veneroida			
Corbiculidae			
Corbicula fluminea	2	2	.
Sphaeriidae	.	5	.
Number of samples	10	10	10
Sum	406	543	278
Number of species	15	31	12
Number of ept taxa	1	2	0
Sum of area	0.60	0.60	1.00

VS 94 DENSITY/SQ.METER BY SITE

	RESVORNA STREAM STREAMMI	NICKAJ TENNE 425.5	NICKAJ TENNE 469.0
SPECIES			
Turbellaria			
Tricladida			
Planariidae			
Dugesia tigrina		.	89
Oligochaeta			
Haplotaxida			
Naididae			
Chaetogaster sp.		.	14
Tubificidae		63	11
Branchiura sowerbyi		9	.
Limnodrilus hoffmeisteri		.	.
Hirudinea		.	1
Pharyngobdellida			
Erpobdellidae			
Erpobdella punctata		.	4
Crustacea			
Isopoda			
Asellidae			
Lirceus sp.		.	5
Amphipoda			
Crangonyctidae			
Crangonyx sp.		1	29
Gammaridae		1	.
Gammarus sp.		3	35
Talitridae			
Hyalella azteca		3	.
Insecta			
Odonata			
Gomphidae		1	.
Ephemeroptera			
Ephemeridae			
Hexagenia limbata		96	.
Heptageniidae			
Stenacron sp.		.	3
Stenacron interpunctatum		.	10
Trichoptera			
Hydropsychidae		.	17
Cheumatopsyche sp.		1	136
Leptoceridae			
Ceraclea sp.		.	9
Polycentropodidae			
Cyrnellus fraternus		.	1
Diptera			
Ceratopogonidae			
Bezzia sp.		1	.
Chironomidae		1	.
Ablabesmyia annulata		25	.
Chironomus sp.		48	.
Coelotanypus sp.		3	.
Coelotanypus tricolor		103	.
Cryptochironomus sp.		8	.
Dicrotendipes sp.		3	.
Einfeldia sp.		28	.
Procladius sp.		53	.
Tanytarsus sp.		1	.
Xenochironomus xenolabis		.	1
Arachnoidea			
Hydrachnellae			
Hygrobatidae			
Hygrobates sp.		1	.
Unionicolidae			
Unionicola sp.		3	.
Gastropoda			
Mesogastropoda			
Hydrobiidae		.	23
Somatogyrus sp.		.	35
Pleuroceridae			
Elimia sp.		.	2
Elimia laqueata		.	.
Leptoxis praerosa		.	12
Pleurocera sp.		.	1
Pleurocera canaliculata		.	6
Viviparidae			
Campeloma sp.		.	3
Viviparus georgianus		.	1
Basommatophora			
Ancylidae			
Ferrissia rivularis		.	4
Planorbidae			
Gyraulus sp.		.	.
Bivalvia			
Unionoida			
Unionidae			
Quadrula pustulosa pustulo		.	.
Veneroida			
Corbiculidae			
Corbicula fluminea		73	503
Sphaeriidae		2	.
Eupera cubensis		.	38
Musculium transversum		18	2
Number of samples		20	20
Sum		549	995

Number of species	25	27
Number of ept taxa	2	6
Sum of area	1.20	2.20

VS 94 DENSITY/SQ.METER BY SITE

	RESVORNA	NORMAN
	STREAM	DUCK R
	STREAMMI	249.5
SPECIES		
Nematoda		2
Oligochaeta		
Haplotaxida		
Tubificidae		103
Branchiura sowerbyi		2
Limnodrilus sp.		33
Insecta		
Diptera		
Ceratopogonidae		
Bezzia sp.		2
Chironomidae		
Chironomus sp.		33
Chironomus attenuatus gp.		122
Procladius sp.		5
Number of samples		10
Sum		302
Number of species		8
Number of ept taxa		0
Sum of area		0.60

VS 94 DENSITY/SQ.METER BY SITE

SPECIES	RESVORNA STREAM STREAMMI	NORRIS CLINCH 80.4	NORRIS CLINCH 125.0	NORRIS POWELL 30.0
.ematoda		2	.	2
Oligochaeta				
Haplotaxida				
Tubificidae		198	363	613
Branchiura sowerbyi		.	3	2
Limnodrilus sp.		3	.	.
Limnodrilus hoffmeisteri		78	48	198
Insecta				
Ephemeroptera				
Caenidae				
Caenis sp.		.	2	2
Ephemeridae				
Hexagenia limbata		.	11	2
Trichoptera				
Leptoceridae				
Oecetis sp.		.	2	.
Diptera				
Ceratopogonidae				
Bezzia sp.		2	14	.
Chironomidae		.	.	3
Ablabesmyia annulata		.	6	.
Chironomus sp.		.	351	335
Coelotanypus sp.		1	2	.
Coelotanypus tricolor		.	5	.
Cryptochironomus sp.		.	34	28
Cryptochironomus fulvus		2	.	.
Dicrotendipes sp.		.	3	.
Phaenopsectra sp.		.	.	5
Procladius sp.		2	154	118
Gastropoda				
Basommatophora				
Planorbidae		.	2	.
Bivalvia				
Veneroida				
Corbiculidae				
Corbicula fluminea		45	.	.
Sphaeriidae		2	12	8
Musculium transversum		.	8	50
Number of samples		10	10	10
Sum		335	1020	1366
Number of species		10	17	13
Number of ept taxa		0	3	2
Sum of area		1.10	0.65	0.60

VS 94 DENSITY/SQ.METER BY SITE

	RESVORNA	NOTTEL	NOTTEL
	STREAM	NOTTEL	NOTTEL
	STREAMMI	23.5	31.0
SPECIES			
Nematoda		1	6
Oligochaeta			
Haplotaxida			
Naididae			
Stylaria lacustris		2	.
Tubificidae		155	18
Limnodrilus hoffmeisteri		4	4
Insecta			
Ephemeroptera			
Ephemeridae			
Hexagenia limbata		.	14
Trichoptera			
Leptoceridae			
Oecetis sp.		1	.
Megaloptera			
Sialidae			
Sialis sp.		.	1
Diptera			
Ceratopogonidae			
Bezzia sp.		.	19
Chironomidae			
Chironomus sp.		181	270
Cladotanytarsus sp.		.	1
Cryptochironomus sp.		.	2
Cryptochironomus fulvus		2	4
Harnischia sp.		1	.
Phaenopsectra sp.		1	7
Procladius sp.		14	28
Tribelos sp.		.	1
Zalutschia zalutschicola		7	.
Arachnoidea			
Hydrachnellae			
Hygrobatidae			
Atractides sp.		.	.
Number of samples		10	20
Sum		369	375
Number of species		11	13
Number of ept taxa		1	1
Sum of area		0.85	2.20

VS 94 DENSITY/SQ.METER BY SITE

	RESVORNA	PARKSV
	STREAM	OCOEE
	STREAMMI	12.5
SPECIES		
matoda		1
Oligochaeta		
Haplotaxida		
Tubificidae		48
Branchiura sowerbyi		1
Limnodrilus hoffmeisteri		7
Crustacea		
Amphipoda		
Crangonyctidae		
Crangonyx sp.		5
Insecta		
Trichoptera		
Polycentropodidae		
Polycentropus sp.		1
Diptera		
Chironomidae		
Procladius sp.		1
Stenochironomus sp.		1
Number of samples		20
Sum		65
Number of species		8
Number of ept taxa		1
Sum of area		1.20

VS 94 DENSITY/SQ.METER BY SITE

SPECIES	RESVORNA STREAM STREAMMI 207.3	PICKWI TENNE 230.0	PICKWI TENNE 253.2
Nematoda	2	1	.
Hydrozoa			
Hydroida			
Hydridae			
Hydra americana	2	.	1
Turbellaria			
Tricladida			
Planariidae			
Dugesia tigrina	7	1	81
Oligochaeta			
Hzplotaxida			
Tubificidae	145	114	35
Branchiura sowerbyi	8	7	.
Limnodrilus hoffmeisteri	2	6	3
Lumbriculida			
Lumbriculidae	2	.	40
Hirudinea			
Rhynchobdellida			
Glossiphoniidae	.	1	.
Helobdella stagnalis	2	1	.
Placobdella sp.	.	.	2
Pharyngobdellida			
Erpobdellidae	2	.	.
Crustacea			
Isopoda			
Asellidae			
Caecidotea sp.	.	1	.
Lirceus sp.	2	.	45
Amphipoda			
Corophiidae			
Corophium lacustre	2	.	.
Crangonyctidae			
Crangonyx sp.	2	.	5
Gammaridae			
Gammarus sp.	.	3	1
Talitridae			
Hyalella azteca	2	.	.
Insecta			
Odonata			
Coenagrionidae			
Argia sp.	.	1	.
Ephemeroptera			
Caenidae			
Caenis sp.	.	7	1
Ephemeridae			
Hexagenia limbata	35	163	.
Heptageniidae	.	.	1
Stenacron sp.	.	.	.
Stenacron interpunctatum	.	.	21
Stenonema sp.	.	.	.
Trichoptera			
Hydropsychidae	.	.	.
Cheumatopsyche sp.	.	.	.
Hydropsyche sp.	.	.	.
Leptoceridae	2	1	.
Ceraclea sp.	.	.	6
Oecetis sp.	5	3	.
Polycentropodidae			
Cyrnellus fraternus	2	3	.
Diptera			
Ceratopogonidae			
Bezzia sp.	.	1	.
Chironomidae	7	.	1
Ablabesmyia annulata	12	33	.
Chironomus sp.	23	41	7
Cladotanytarsus sp.	.	.	.
Coelotanypus tricolor	128	291	.
Cryptochironomus sp.	3	1	.
Cryptochironomus fulvus	.	.	.
Dicrotendipes sp.	.	10	.
Einfeldia sp.	25	.	.
Glyptotendipes sp.	.	1	2
Harnischia sp.	2	.	.
Larsia sp.	.	.	.
Nanocladius sp.	.	.	1
Phaenopsectra sp.	.	.	1
Polypedilum sp.	.	.	1
Procladius sp.	25	29	.
Pseudochironomus sp.	.	.	.
Rheotanytarsus sp.	.	.	.
Stenochironomus sp.	.	1	.
Tanytarsus sp.	.	1	.
Arachnoidea			
Hydrachnellae			
Unionicolidae			
Unionicola sp.	2	.	.
Gastropoda			
Mesogastropoda			
Hydrobiidae	.	3	1
Somatogyrus sp.	15	.	.
Pleuroceridae	.	.	1
Leptoxis praerosa	.	11	.
Lithasia armigera	.	.	.

Lithasia sp.	.	.	.
Lithasia verrucosa	.	.	6
Pleurocera sp.	.	.	3
Pleurocera canaliculata	5	11	.
Viviparidae			
Campeloma sp.	32	16	.
Basommatophora			
Ancylidae			
Ferrissia rivularis	.	1	.
Planorbidae	.	.	1
Bivalvia			
Unionoida			
Unionidae			
Fusconaia ebena	.	.	.
Fusconaia flava	.	.	.
Obliquaria reflexa	.	.	.
Quadrula pustulosa pustulo	.	.	.
Veneroida			
Corbiculidae			
Corbicula fluminea	80	83	264
Dreissenidae			
Dreissena polymorpha	2	.	.
Sphaeriidae	283	6	.
Eupera cubensis	8	.	1
Musculium transversum	133	79	.
Number of samples	10	10	20
Sum	1009	932	532
Number of species	34	33	26
Number of ept taxa	4	5	4
Sum of area	0.60	0.70	2.20

VS 94 DENSITY/SQ.METER BY SITE

RESVORNA STREAM STREAMMI	SOUTH S FK H 51.0	SOUTH S FK H 62.5
SPECIES		
Oligochaeta		
Haplotaxida		
Tubificidae	111	160
Branchiura sowerbyi	2	.
Limnodrilus hoffmeisteri	23	42
Crustacea		
Isopoda		
Asellidae		
Caecidotea sp.	1	.
Insecta		
Ephemeroptera		
Ephemeridae		
Hexagenia limbata	6	.
Diptera		
Ceratopogonidae		
Bezzia sp.	1	.
Chironomidae	.	2
Ablabesmyia annulata	2	.
Chironomus sp.	15	74
Cryptochironomus sp.	.	3
Dicrotendipes sp.	.	3
Polypedilum halterale	.	2
Procladius sp.	6	6
Tanytarsus sp.	2	3
Bivalvia		
Veneroida		
Corbiculidae		
Corbicula fluminea	3	.
Number of samples	10	10
Sum	172	295
Number of species	11	9
Number of ept taxa	1	0
Sum of area	1.10	1.05

VS 94 DENSITY/SQ.METER BY SITE

SPECIES	RESVORNA STREAM STREAMMI	TELLIC LITTLE 1.0	TELLIC LITTLE 15.0
matoda		.	2
Oligochaeta			
Haplotaxida			
Naididae		2	.
Tubificidae		155	25
Branchiura sowerbyi		.	2
Limnodrilus hoffmeisteri		18	.
Lumbriculida			
Lumbriculidae		.	2
Insecta			
Ephemeroptera			
Ephemeridae			
Hexagenia limbata		.	8
Trichoptera			
Leptoceridae			
Oecetis sp.		2	.
Diptera			
Chironomidae			
Ablabesmyia annulata		2	3
Chironomus sp.		13	17
Cryptochironomus sp.		.	2
Parachironomus sp.		.	2
Procladius sp.		23	10
Stictochironomus sp.		.	15
Tanytarsus sp.		.	20
Zalutschia zalutschicola		.	60
Bivalvia			
Veneroida			
Corbiculidae			
Corbicula fluminea		23	2
Sphaeriidae		2	.
Number of samples		10	10
Sum		240	170
Number of species		9	14
Number of ept taxa		1	1
Sum of area		0.60	0.60

VS 94 DENSITY/SQ.METER BY SITE

	RESVORNA STREAM ELK R STREAMMI 135.0	TIMS F ELK R 150.0
SPECIES		
Oligochaeta		
Haplotaxida		
Tubificidae	33	2
Limnodrilus hoffmeisteri	5	.
Insecta		
Ephemeroptera		
Ephemeridae		
Hexagenia limbata	.	2
Diptera		
Chironomidae		
Chironomus sp.	2	20
Cryptochironomus sp.	.	2
Polypedilum sp.	.	2
Polypedilum halterale	15	.
Procladius sp.	.	3
Tanytarsus sp.	.	2
Number of samples	10	10
Sum	55	33
Number of species	4	7
Number of ept taxa	0	1
Sum of area	0.60	0.60

VS 94 DENSITY/SQ.METER BY SITE

	RESVORNA STREAM WATAUG STREAMMI	WATAUG WATAUG 37.4	WATAUG WATAUG 45.5
SPECIES			
Turbellaria			
Tricladida			
Planariidae			
Dugesia tigrina		.	8
Oligochaeta			
Haplotaxida			
Tubificidae		14	463
Limnodrilus hoffmeisteri		.	38
Lumbriculida			
Lumbriculidae		.	3
Crustacea			
Isopoda			
Asellidae			
Caecidotea sp.		.	75
Amphipoda			
Crangonyctidae			
Crangonyx sp.		.	131
Insecta			
Ephemeroptera			
Ephemeridae			
Hexagenia limbata		.	2
Diptera			
Chironomidae			
Ablabesmyia annulata		.	1
Chironomus sp.		.	323
Cryptochironomus sp.		.	6
Microtendipes sp.		2	.
Procladius sp.		.	3
Tanytarsus sp.		2	16
Zalutschia zalutschicola		.	1
Simuliidae		1	.
Bivalvia			
Veneroida			
Corbiculidae			
Corbicula fluminea		2	2
Sphaeriidae		2	.
Number of samples		10	20
Sum		23	1072
Number of species		6	14
Number of ept taxa		0	1
Sum of area		1.10	1.20

VS 94 DENSITY/SQ.METER BY SITE

SPECIES	RESVORNA STREAM STREAMMI	WATTS TENNE 531.0	WATTS TENNE 560.8	WATTS TENNE 600.0	WATTS CLINCH 19.0
Nematoda		2	2	.	.
Hydrozoa					
Hydroida					
Hydridae					
Hydra americana		.	.	4	.
Turbellaria					
Tricladida					
Planariidae					
Dugesia tigrina		.	.	1	2
Oligochaeta					
Haplotaxida					
Enchytraeidae		.	2	.	.
Tubificidae		58	177	26	.
Branchiura sowerbyi		20	3	.	.
Limnodrilus hoffmeisteri		3	12	1	.
Lumbriculida					
Lumbriculidae		.	.	2	.
Hirudinea		.	.	.	1
Crustacea					
Isopoda					
Asellidae					
Caecidotea sp.		.	.	1	1
Lirceus sp.		.	.	2	3
Amphipoda					
Corophiidae					
Corophium lacustre		.	.	3	.
Crangonyctidae					
Crangonyx sp.		.	.	.	1
Gammaridae					
Gammarus sp.		.	.	32	.
Talitridae					
Hyalella azteca		.	.	.	1
Insecta					
Odonata					
Cordulegastridae					
Cordulegaster sp.		.	2	.	.
Ephemeroptera					
Ephemeridae					
Hexagenia limbata		10	410	.	.
Heptageniidae					
Stenacron interpunctatum		.	.	2	3
Trichoptera					
Leptoceridae					
Ceraclea sp.		2	.	6	6
Polycentropodidae					
Cyrnellus fraternus		.	2	8	4
Diptera					
Ceratopogonidae					
Bezzia sp.		.	2	.	.
Chironomidae		.	.	19	5
Ablabesmyia annulata		2	95	.	.
Axarus sp.		.	.	1	1
Chironomus sp.		292	180	8	.
Coelotanypus tricolor		67	122	.	.
Cricotopus sp.		.	.	.	4
Cryptochironomus sp.		5	15	.	.
Dicrotendipes sp.		.	.	20	6
Einfeldia sp.		.	13	.	.
Epoicocladius sp.		.	10	.	.
Glyptotendipes sp.		.	2	.	6
Harnischia sp.		.	2	.	.
Microtendipes sp.		.	2	.	.
Nanocladius sp.		.	.	24	1
Paratendipes sp.		.	.	1	.
Procladius sp.		18	117	1	.
Pseudochironomus sp.		.	2	1	.
Rheotanytarsus sp.		.	.	14	4
Stenochironomus sp.		.	2	.	.
Tanytarsus sp.		.	.	1	3
Tvetenia bavarica sp. gp.		.	.	.	1
Empididae					
Hemerodromia sp.		.	.	.	1
Simuliidae					
Prosimulium sp.		.	2	.	.
Coleoptera					
Elmidae					
Dubiraphia sp.		.	2	.	.
Arachnoidea					
Hydrachnellae					
Unionicolidae					
Unionicola sp.		.	2	.	.
Gastropoda					
Mesogastropoda					
Hydrobiidae		.	.	.	4
Bivalvia					
Unionoida					
Unionidae					
Obliquaria reflexa		.	.	1	.
Truncilla truncata		.	.	1	.
Veneroida					
Corbiculidae					
Corbicula fluminea		20	.	103	35
Sphaeriidae		15	267	.	.

Musculium transversum	5	7	.	.
Number of samples	10	10	10	10
Sum	519	1454	283	93
Number of species	14	26	25	21
Number of ept taxa	2	2	3	3
Sum of area	0.60	0.60	1.10	1.10

VS 94 DENSITY/SQ.METER BY SITE

SPECIES	RESVORNA STREAM STREAMMI	WHEELE TENNE 277.0	WHEELE TENNE 295.9	WHEELE TENNE 347.0	WHEELE ELK R 6.0
Nematoda		.	.	.	15
Hydrozoa					
Hydroida					
Hydridae					
Hydra americana		.	.	7	.
Turbellaria					
Tricladida					
Planariidae					
Dugesia tigrina		.	.	30	.
Oligochaeta					
Haplotaxida					
Naididae		.	2	.	.
Nais communis		.	.	1	.
Nais simplex		.	2	.	.
Tubificidae		125	98	.	2555
Branchiura sowerbyi		2	12	.	92
Limnodrilus hoffmeisteri		5	.	.	163
Lumbriculida					
Lumbriculidae		.	3	5	.
Hirudinea					
Rhynchobdellida					
Glossiphoniidae					
Helobdella stagnalis		42	.	.	.
Helobdella triserialis		.	.	1	.
Crustacea					
Isopoda					
Asellidae					
Lirceus sp.		.	.	8	.
Amphipoda					
Crangonyctidae					
Crangonyx sp.		.	.	17	.
Gammaridae					
Gammarus sp.		.	.	42	.
Talitridae					
Hyalella azteca		.	15	.	.
Insecta					
Odonata					
Coenagrionidae					
Enallagma sp.		.	.	1	.
Ephemeroptera					
Caenidae					
Caenis sp.		.	3	2	.
Ephemerellidae					
Ephemerella sp.		.	.	1	.
Ephemeridae					
Hexagenia limbata		2	175	.	5
Heptageniidae					
Stenacron interpunctatum		.	.	23	.
Trichoptera					
Leptoceridae		.	.	1	.
Ceraclea sp.		.	.	9	.
Oecetis sp.		.	2	.	.
Polycentropodidae					
Cyrnellus fraternus		.	2	4	.
Diptera					
Ceratopogonidae					
Bezzia sp.		.	.	.	23
Chironomidae		.	.	5	.
Ablabesmyia annulata		2	17	3	.
Axarus sp.		.	2	.	2
Chironomus sp.		210	27	.	657
Coelotanypus sp.		.	35	.	58
Coelotanypus tricolor		217	103	1	122
Cryptochironomus sp.		.	27	3	18
Dicrotendipes sp.		.	27	4	2
Einfeldia sp.		17	13	.	190
Glyptotendipes sp.		.	.	.	2
Nanocladius sp.		.	.	7	.
Parachironomus sp.		.	.	3	.
Paralauterborniella sp.		.	.	.	2
Phaenopsectra sp.		.	.	.	2
Procladius sp.		60	42	.	347
Tanytarsus sp.		.	.	1	3
Tribelos sp.		.	.	.	2
Coleoptera					
Hydrophilidae					
Berosus sp.		.	.	1	.
Arachnoidea					
Hydrachnellae		.	.	.	2
Hygrobatidae					
Atractides sp.		2	.	.	.
Unionicolidae					
Unionicola sp.		3	2	.	3
Gastropoda					
Mesogastropoda					
Hydrobiidae		.	3	21	.
Somatogyrus sp.		2	.	.	.
Pleuroceridae		.	.	3	.
Elimia sp.		.	2	.	.
Pleurocera sp.		.	3	9	.
Pleurocera canaliculata		.	8	.	2
Viviparidae					
Campeloma sp.		5	2	.	.

Viviparus sp.	.	7	2	.
Basommatophora				
Ancylidae				
Ferrissia rivularis	.	.	12	.
Planorbidae	.	3	.	.
Bivalvia				
Unionoida				
Unionidae				
Ellipsaria lineolata	.	.	1	.
Elliptio crassidens	.	.	2	.
Quadrula pustulosa pustulo	.	.	2	.
Veneroida				
Corbiculidae				
Corbicula fluminea	20	130	203	.
Sphaeriidae	23	2	.	2
Eupera cubensis	.	.	1	.
Musculium transversum	3	30	.	5
Pisidium compressum	.	.	.	3
Number of samples	10	10	10	10
Sum	740	799	436	4277
Number of species	17	30	34	25
Number of ept taxa	1	4	6	1
Sum of area	0.60	0.60	1.10	0.60

VS 94 DENSITY/SQ.METER BY SITE

SPECIES	RESVORNA STREAM STREAMMI	WILSON TENNE 260.8	WILSON TENNE 273.0
Turbellaria			
Tricladida			
Planariidae			
Dugesia tigrina		.	6
Oligochaeta			
Haplotaxida			
Tubificidae		78	158
Limnodrilus sp.		8	.
Limnodrilus hoffmeisteri		.	6
Hirudinea		.	22
Rhynchobdellida			
Glossiphoniidae			
Helobdella stagnalis		52	8
Pharyngobdellida			
Erpobdellidae		.	2
Erpobdella sp.		.	8
Crustacea			
Isopoda			
Asellidae			
Caecidotea sp.		.	3
Lirceus sp.		.	14
Amphipoda			
Crangonyctidae			
Crangonyx sp.		.	29
Gammaridae			
Gammarus sp.		.	45
Talitridae			
Hyalella azteca		2	3
Insecta			
Odonata			
Coenagrionidae			
Enallagma sp.		.	3
Ephemeroptera			
Caenidae			
Caenis sp.		.	3
Ephemeridae			
Hexagenia limbata		.	2
Heptageniidae			
Stenacron sp.		.	3
Stenacron interpunctatum		.	2
Trichoptera			
Hydroptilidae			
Hydroptila sp.		.	2
Leptoceridae			
Ceraclea sp.		.	3
Oecetis sp.		.	9
Polycentropodidae			
Cyrnellus fraternus		.	48
Diptera			
Chironomidae		3	.
Ablabesmyia sp.		.	25
Chironomus sp.		485	.
Coelotanypus sp.		7	.
Coelotanypus tricolor		20	.
Cryptochironomus fulvus		.	3
Glyptotendipes sp.		.	9
Nanocladius sp.		.	2
Procladius sp.		27	3
Stenochironomus sp.		.	2
Xenochironomus xenolabis		.	2
Coleoptera			
Elmidae			
Ancyronyx variegatus		.	2
Gastropoda			
Mesogastropoda			
Hydrobiidae		.	2
Pleuroceridae		.	25
Pleurocera sp.		.	3
Pleurocera canaliculata		.	3
Viviparidae			
Campeloma sp.		.	15
Viviparus sp.		.	3
Basommatophora			
Ancylidae			
Ferrissia rivularis		.	2
Physidae			
Physella sp.		.	3
Bivalvia			
Unionoida			
Unionidae		.	8
Anodonta imbecillis		.	8
Veneroida			
Corbiculidae			
Corbicula fluminea		.	315
Sphaeriidae		30	69
Eupera cubensis		.	20
Musculium transversum		8	100
Number of samples		10	10
Sum		720	1003
Number of species		11	43
Number of ept taxa		0	8
Sum of area		0.60	0.65

Section 5

Fish Community

Appendix A.

Results and Ratings for Individual Metrics and Final RFAI Score for Each Sample Location in 1994

Table 1 . 1994 scoring results for the tweleve metrics and overall Reservoir Fish Assemblage Index (RFAI) for Beach Lake Reservoir.

Metric		Forebay Obs.	Score
A. Species richness and composition			
1. Number of species		18	3
2. Piscivore species		6	3
3. Sunfish species		6	5
4. Sucker species		1	1
5. Intolerant species		1	1
6. Percent tolerant species	electrofishing	27.8%	1.5
	gill netting	54.3%	0.5
7. Dominance *	electrofishing	32.9%	2.5
	gill netting	50.7%	0.5
B. Trophic compostion			
8. Percent omnivores	electrofishing	28.7%	0.5
	gill netting	60.1%	0.5
9. Percent insectivores	electrofishing	39.5%	0.5
	gill netting	0.4%	0.5
C. Reproductive composition			
10. Lithophilic spawning species		1	1
D. Fish abundance and health			
11. Average number of individuals	electrofishing	35.3	0.5
	gill netting	27.6	2.5
12. Percent anomalies		1.5%	5
RFAI			29 poor

* Percent composition of most abundant species.

Table 2 . 1994 scoring results for the tweleve metrics and overall Reservoir Fish Assemblage Index (RFAI) for Bear Creek Reservoir.

Metric		Forebay Obs.	Score
A. Species richness and composition			
1. Number of species		23	5
2. Piscivore species		6	3
3. Sunfish species		5	5
4. Sucker species		7	5
5. Intolerant species		3	5
6. Percent tolerant species	electrofishing	38.8%	0.5
	gill netting	27.2%	1.5
7. Dominance *	electrofishing	33.5%	2.5
	gill netting	26.5%	2.5
B. Trophic compostion			
8. Percent omnivores	electrofishing	36.1%	0.5
	gill netting	55.8%	1.5
9. Percent insectivores	electrofishing	39.5%	0.5
	gill netting	16.3%	2.5
C. Reproductive composition			
10. Lithophilic spawning species		6	3
D. Fish abundance and health			
11. Average number of individuals	electrofishing	43.0	1.5
	gill netting	14.7	1.5
12. Percent anomalies		2.7%	3
RFAI			44 good

* Percent composition of most abundant species.

Table 3 . 1994 scoring results for the tweleve metrics and overall Reservoir Fish Assemblage Index (RFAI) for Blue Ridge Reservoir.

Metric		Forebay Obs.	Score
A. Species richness and composition			
1. Number of species		16	5
2. Piscivore species		6	5
3. Sunfish species		4	5
4. Sucker species		3	3
5. Intolerant species		2	3
6. Percent tolerant species	electrofishing	6.0%	2.5
	gill netting	35.8%	0.5
7. Dominance *	electrofishing	45.8%	1.5
	gill netting	35.8%	1.5
B. Trophic compostion			
8. Percent omnivores	electrofishing	0.0%	2.5
	gill netting	40.3%	0.5
9. Percent insectivores	electrofishing	81.7%	1.5
	gill netting	4.5%	1.5
C. Reproductive composition			
10. Lithophilic spawning species		5	5
D. Fish abundance and health			
11. Average number of individuals	electrofishing	18.9	0.5
	gill netting	6.7	0.5
12. Percent anomalies		2.5%	3
RFAI			42 good

* Percent composition of most abundant species.

Table 4 . 1994 scoring results for the tweleve metrics and overall Reservoir Fish Assemblage Index (RFAI) for Boone Reservoir.

Metric		Transition 1 Obs.	Transition 1 Score	Transition 2 Obs.	Transition 2 Score	Forebay Obs.	Forebay Score
A. Species richness and composition							
1. Number of species		20	3	21	5	19	3
2. Piscivore species		9	5	9	5	7	5
3. Sunfish species		4	5	3	3	4	5
4. Sucker species		3	3	2	1	2	1
5. Intolerant species		1	1	0	1	0	1
6. Percent tolerant species	electrofishing	29.1%	1.5	14.9%	2.5	30.3%	0.5
	gill netting	54.8%	0.5	59.2%	0.5	39.3%	1.5
7. Dominance *	electrofishing	31.9%	2.5	50.7%	1.5	39.6%	2.5
	gill netting	32.2%	1.5	37.4%	1.5	29.5%	2.5
B. Trophic compostion							
8. Percent omnivores	electrofishing	27.6%	0.5	13.5%	1.5	22.4%	1.5
	gill netting	61.0%	0.5	88.3%	0.5	51.6%	1.5
9. Percent insectivores	electrofishing	64.4%	1.5	67.0%	1.5	67.1%	1.5
	gill netting	3.4%	1.5	1.7%	0.5	4.1%	1.5
C. Reproductive composition							
10. Lithophilic spawning species		5	3	3	3	3	3
D. Fish abundance and health							
11. Average number of individuals	electrofishing	88.0	2.5	81.0	2.5	57.9	1.5
	gill netting	14.6	0.5	17.9	1.5	12.2	0.5
12. Percent anomalies		2.4%	3	1.2%	5	5.7%	1
RFAI			36 fair		37 fair		34 fair

* Percent composition of most abundant species.

Table 5 . 1994 scoring results for the tweleve metrics and overall Reservoir Fish Assemblage Index (RFAI) for Cedar Creek Reservoir.

Metric		Forebay Obs.	Score
A. Species richness and composition			
1. Number of species		28	5
2. Piscivore species		9	5
3. Sunfish species		4	5
4. Sucker species		7	5
5. Intolerant species		3	5
6. Percent tolerant species	electrofishing	13.4%	2.5
	gill netting	26.9%	1.5
7. Dominance *	electrofishing	55.4%	1.5
	gill netting	22.6%	2.5
B. Trophic compostion			
8. Percent omnivores	electrofishing	12.5%	1.5
	gill netting	39.2%	2.5
9. Percent insectivores	electrofishing	76.3%	1.5
	gill netting	6.6%	2.5
C. Reproductive composition			
10. Lithophilic spawning species		8	5
D. Fish abundance and health			
11. Average number of individuals	electrofishing	39.3	0.5
	gill netting	21.2	2.5
12. Percent anomalies		6.3%	1
RFAI			50 good

* Percent composition of most abundant species.

Table 6 . 1994 scoring results for the tweleve metrics and overall Reservoir Fish Assemblage Index (RFAI) for Chatuge Reservoir.

		Forebay		Shooting Creek	
Metric		Obs.	Score	Obs.	Score
A. Species richness and composition					
1. Number of species		18	5	16	5
2. Piscivore species		8	5	7	5
3. Sunfish species		4	5	4	5
4. Sucker species		1	1	0	1
5. Intolerant species		0	1	0	1
6. Percent tolerant species	electrofishing	10.7%	2.5	7.6%	2.5
	gill netting	12.8%	1.5	13.4%	1.5
7. Dominance *	electrofishing	47.8%	1.5	57.0%	1.5
	gill netting	29.7%	2.5	31.7%	1.5
B. Trophic compostion					
8. Percent omnivores	electrofishing	0.5%	2.5	0.8%	2.5
	gill netting	15.4%	1.5	14.8%	2.5
9. Percent insectivores	electrofishing	76.8%	1.5	84.2%	1.5
	gill netting	10.3%	2.5	4.2%	1.5
C. Reproductive composition					
10. Lithophilic spawning species		3	3	2	1
D. Fish abundance and health					
11. Average number of individuals	electrofishing	37.4	1.5	42.1	1.5
	gill netting	19.5	2.5	14.2	1.5
12. Percent anomalies		2.5%	3	3.5%	3
RFAI			43 good		39 fair

* Percent composition of most abundant species.

Table 7 . 1994 scoring results for the tweleve metrics and overall Reservoir Fish Assemblage Index (RFAI) for Cherokee Reservoir.

Metric		Transition Obs.	Transition Score	Forebay Obs.	Forebay Score
A. Species richness and composition					
1. Number of species		23	5	23	5
2. Piscivore species		10	5	7	5
3. Sunfish species		3	3	2	3
4. Sucker species		2	1	4	3
5. Intolerant species		0	1	0	1
6. Percent tolerant species	electrofishing	11.8%	2.5	4.0%	2.5
	gill netting	40.1%	1.5	17.1%	2.5
7. Dominance *	electrofishing	49.1%	1.5	51.2%	1.5
	gill netting	31.1%	1.5	41.7%	1.5
B. Trophic compostion					
8. Percent omnivores	electrofishing	11.9%	1.5	13.6%	1.5
	gill netting	68.2%	0.5	65.9%	0.5
9. Percent insectivores	electrofishing	82.9%	2.5	78.8%	1.5
	gill netting	3.4%	1.5	3.3%	1.5
C. Reproductive composition					
10. Lithophilic spawning species		3	3	4	3
D. Fish abundance and health					
11. Average number of individuals	electrofishing	85.6	2.5	36.7	0.5
	gill netting	26.7	1.5	21.1	1.5
12. Percent anomalies		3.9%	3	4.0%	3
RFAI			38 fair		38 fair

* Percent composition of most abundant species.

Table 8 . 1994 scoring results for the tweleve metrics and overall Reservoir Fish Assemblage Index (RFAI) for Chickamauga Reservoir.

Metric		Inflow Obs.	Inflow Score	Transition Obs.	Transition Score	Forebay Obs.	Forebay Score
A. Species richness and composition							
1. Number of species		36	5	29	3	27	3
2. Piscivore species		10	5	10	5	9	5
3. Sunfish species		6	5	6	5	5	5
4. Sucker species		5	3	2	1	2	1
5. Intolerant species		4	3	3	3	3	3
6. Percent tolerant species	electrofishing	15.3%	5	27.2%	1.5	10.5%	2.5
	gill netting	.	.	18.7%	2.5	45.9%	0.5
7. Dominance *	electrofishing	28.8%	5	32.1%	2.5	33.6%	2.5
	gill netting	.	.	40.0%	1.5	41.5%	1.5
B. Trophic compostion							
8. Percent omnivores	electrofishing	14.7%	5	26.1%	1.5	7.1%	2.5
	gill netting	.	.	23.9%	2.5	56.3%	0.5
9. Percent insectivores	electrofishing	67.8%	5	61.0%	2.5	77.9%	2.5
	gill netting	.	.	13.5%	1.5	10.4%	1.5
C. Reproductive composition							
10. Lithophilic spawning species		9	5	6	3	6	3
D. Fish abundance and health							
11. Average number of individuals	electrofishing	111.7	5	45.1	0.5	71.8	1.5
	gill netting	.	.	15.5	1.5	13.5	0.5
12. Percent anomalies		8.6%	1	3.1%	3	1.7%	5
RFAI			52 excellent		41 good		41 good

* Percent composition of most abundant species.

Table 9 . 1994 scoring results for the tweleve metrics and overall Reservoir Fish Assemblage Index (RFAI) for Douglas Reservoir.

Metric		Transition Obs.	Transition Score	Forebay Obs.	Forebay Score
A. Species richness and composition					
1. Number of species		24	5	24	5
2. Piscivore species		8	5	8	5
3. Sunfish species		4	5	3	3
4. Sucker species		6	3	6	5
5. Intolerant species		1	1	1	1
6. Percent tolerant species	electrofishing	12.0%	2.5	28.2%	1.5
	gill netting	33.8%	1.5	62.2%	0.5
7. Dominance *	electrofishing	52.8%	1.5	33.6%	2.5
	gill netting	30.8%	1.5	60.9%	0.5
B. Trophic compostion					
8. Percent omnivores	electrofishing	11.8%	1.5	27.6%	0.5
	gill netting	62.7%	0.5	65.5%	0.5
9. Percent insectivores	electrofishing	73.8%	2.5	61.0%	1.5
	gill netting	7.5%	2.5	3.4%	1.5
C. Reproductive composition					
10. Lithophilic spawning species		6	3	7	5
D. Fish abundance and health					
11. Average number of individuals	electrofishing	76.0	1.5	40.1	1.5
	gill netting	20.1	1.5	32.5	2.5
12. Percent anomalies		1.4%	5	0.6%	5
RFAI			44 good		42 good

* Percent composition of most abundant species.

Table 10 . 1994 scoring results for the tweleve metrics and overall Reservoir Fish Assemblage Index (RFAI) for Fontana Reservoir.

Metric		Transition 1 Obs.	Transition 1 Score	Transition 2 Obs.	Transition 2 Score	Forebay Obs.	Forebay Score
A. Species richness and composition							
1. Number of species		19	5	14	3	18	5
2. Piscivore species		6	5	6	5	6	5
3. Sunfish species		2	3	2	3	2	3
4. Sucker species		4	5	2	3	2	3
5. Intolerant species		2	3	1	1	2	3
6. Percent tolerant species	electrofishing	49.0%	0.5	65.3%	0.5	25.3%	1.5
	gill netting	19.0%	1.5	7.9%	2.5	5.2%	2.5
7. Dominance *	electrofishing	46.5%	1.5	65.0%	0.5	51.5%	1.5
	gill netting	39.5%	1.5	34.1%	1.5	40.9%	1.5
B. Trophic compostion							
8. Percent omnivores	electrofishing	2.4%	2.5	0.3%	2.5	0.8%	2.5
	gill netting	23.8%	1.5	9.8%	2.5	8.7%	2.5
9. Percent insectivores	electrofishing	78.7%	1.5	91.0%	2.5	89.5%	2.5
	gill netting	7.5%	2.5	6.1%	2.5	6.1%	2.5
C. Reproductive composition							
10. Lithophilic spawning species		6	5	4	3	4	3
D. Fish abundance and health							
11. Average number of individuals	electrofishing	19.1	0.5	23.6	0.5	43.2	1.5
	gill netting	14.7	1.5	16.4	1.5	11.5	1.5
12. Percent anomalies		5.7%	1	1.4%	5	11.7%	1
RFAI			42 good		40 fair		43 good

* Percent composition of most abundant species.

Table 11 . 1994 scoring results for the tweleve metrics and overall Reservoir Fish Assemblage Index (RFAI) for Fort Loudoun Reservoir.

Metric		Inflow Obs.	Inflow Score	Transition Obs.	Transition Score	Forebay Obs.	Forebay Score
A. Species richness and composition							
1. Number of species		29	5	30	5	27	3
2. Piscivore species		7	5	9	5	8	5
3. Sunfish species		4	3	5	5	5	5
4. Sucker species		8	5	3	1	4	3
5. Intolerant species		2	3	2	3	1	1
6. Percent tolerant species	electrofishing	68.6%	1	63.1%	0.5	66.8%	0.5
	gill netting	.	.	30.8%	1.5	17.4%	2.5
7. Dominance *	electrofishing	56.4%	3	54.8%	1.5	63.4%	0.5
	gill netting	.	.	19.7%	2.5	47.6%	1.5
B. Trophic compostion							
8. Percent omnivores	electrofishing	71.5%	1	65.5%	0.5	67.2%	0.5
	gill netting	.	.	47.9%	0.5	25.1%	2.5
9. Percent insectivores	electrofishing	21.9%	1	28.0%	0.5	24.5%	0.5
	gill netting	.	.	13.7%	1.5	6.4%	1.5
C. Reproductive composition							
10. Lithophilic spawning species		10	5	6	3	5	3
D. Fish abundance and health							
11. Average number of individuals	electrofishing	32.5	1	71.6	1.5	118.8	2.5
	gill netting	.	.	11.7	0.5	31.1	1.5
12. Percent anomalies		2.2%	3	1.7%	5	2.2%	3
RFAI			36 fair		38 fair		37 fair

* Percent composition of most abundant species.

Table 12 . 1994 scoring results for the tweleve metrics and overall Reservoir Fish Assemblage Index (RFAI) for Fort Patrick Henry Reservoir.

Metric		Forebay Obs.	Forebay Score
A. Species richness and composition			
1. Number of species		19	3
2. Piscivore species		7	5
3. Sunfish species		4	5
4. Sucker species		2	1
5. Intolerant species		2	3
6. Percent tolerant species	electrofishing	34.1%	0.5
	gill netting	86.4%	0.5
7. Dominance *	electrofishing	32.4%	2.5
	gill netting	59.9%	0.5
B. Trophic compostion			
8. Percent omnivores	electrofishing	33.2%	0.5
	gill netting	93.2%	0.5
9. Percent insectivores	electrofishing	55.7%	0.5
	gill netting	0.7%	0.5
C. Reproductive composition			
10. Lithophilic spawning species		2	3
D. Fish abundance and health			
11. Average number of individuals	electrofishing	72.2	1.5
	gill netting	14.7	0.5
12. Percent anomalies		1.0%	5
RFAI			33 fair

* Percent composition of most abundant species.

Table 13 . 1994 scoring results for the tweleve metrics and overall Reservoir Fish Assemblage Index (RFAI) for Guntersville Reservoir.

Metric		Inflow		Transition		Forebay	
		Obs.	Score	Obs.	Score	Obs.	Score
A. Species richness and composition							
1. Number of species		30	5	24	3	24	3
2. Piscivore species		10	5	8	5	10	5
3. Sunfish species		5	5	4	3	4	3
4. Sucker species		5	3	1	1	1	1
5. Intolerant species		3	3	3	3	3	3
6. Percent tolerant species	electrofishing	32.8%	3	64.3%	0.5	20.8%	1.5
	gill netting	.	.	27.7%	1.5	57.7%	0.5
7. Dominance *	electrofishing	22.6%	5	62.5%	0.5	46.5%	1.5
	gill netting	.	.	41.5%	1.5	57.7%	0.5
B. Trophic compostion							
8. Percent omnivores	electrofishing	39.5%	3	64.2%	0.5	19.7%	2.5
	gill netting	.	.	37.4%	1.5	63.5%	0.5
9. Percent insectivores	electrofishing	41.2%	3	30.3%	1.5	65.2%	1.5
	gill netting	.	.	8.7%	1.5	5.1%	1.5
C. Reproductive composition							
10. Lithophilic spawning species		7	3	6	3	5	3
D. Fish abundance and health							
11. Average number of individuals	electrofishing	41.9	1	64.2	1.5	44.6	0.5
	gill netting	.	.	19.5	1.5	13.7	0.5
12. Percent anomalies		5.0%	3	1.4%	5	6.8%	1
RFAI			42 good		35 fair		30 poor

* Percent composition of most abundant species.

Table 14 . 1994 scoring results for the tweleve metrics and overall Reservoir Fish Assemblage Index (RFAI) for Hiwassee Reservoir.

Metric		Transition Obs.	Transition Score	Forebay Obs.	Forebay Score
A. Species richness and composition					
1. Number of species		17	5	23	5
2. Piscivore species		7	5	7	5
3. Sunfish species		2	3	3	3
4. Sucker species		4	5	6	5
5. Intolerant species		1	1	3	5
6. Percent tolerant species	electrofishing	6.9%	2.5	42.9%	0.5
	gill netting	20.1%	0.5	11.5%	1.5
7. Dominance *	electrofishing	76.9%	0.5	42.9%	1.5
	gill netting	24.8%	2.5	23.1%	2.5
B. Trophic compostion					
8. Percent omnivores	electrofishing	0.8%	2.5	3.2%	2.5
	gill netting	20.1%	1.5	13.7%	2.5
9. Percent insectivores	electrofishing	84.1%	1.5	84.3%	1.5
	gill netting	8.7%	2.5	18.1%	2.5
C. Reproductive composition					
10. Lithophilic spawning species		6	5	8	5
D. Fish abundance and health					
11. Average number of individuals	electrofishing	26.0	0.5	31.4	1.5
	gill netting	14.9	1.5	18.2	2.5
12. Percent anomalies		2.4%	3	1.7%	5
RFAI			43 good		52 excellent

* Percent composition of most abundant species.

Table 15 . 1994 scoring results for the tweleve metrics and overall Reservoir Fish Assemblage Index (RFAI) for Kentucky Reservoir.

Metric		Inflow Obs.	Inflow Score	Transition Obs.	Transition Score	Forebay Obs.	Forebay Score
A. Species richness and composition							
1. Number of species		34	5	39	5	39	5
2. Piscivore species		14	5	12	5	14	5
3. Sunfish species		3	3	5	5	5	5
4. Sucker species		7	3	4	3	6	3
5. Intolerant species		4	3	4	3	3	3
6. Percent tolerant species	electrofishing	84.2%	1	72.2%	0.5	94.1%	0.5
	gill netting	.	.	34.7%	1.5	63.9%	0.5
7. Dominance *	electrofishing	84.0%	1	71.3%	0.5	93.6%	0.5
	gill netting	.	.	30.0%	2.5	62.6%	0.5
B. Trophic compostion							
8. Percent omnivores	electrofishing	84.7%	1	72.5%	0.5	94.2%	0.5
	gill netting	.	.	38.0%	1.5	72.4%	0.5
9. Percent insectivores	electrofishing	4.1%	1	21.1%	0.5	4.0%	0.5
	gill netting	.	.	19.3%	2.5	4.2%	0.5
C. Reproductive composition							
10. Lithophilic spawning species		9	5	9	5	8	5
D. Fish abundance and health							
11. Average number of individuals	electrofishing	548.1	5	134.9	2.5	756.9	2.5
	gill netting	.	.	33.7	1.5	62.0	2.5
12. Percent anomalies		9.0%	1	2.6%	3	2.4%	3
RFAI			34 fair		43 good		38 fair

* Percent composition of most abundant species.

Table 16 . 1994 scoring results for the tweleve metrics and overall Reservoir Fish Assemblage Index (RFAI) for Little Bear Creek Reservoir.

Metric		Forebay Obs.	Forebay Score
A. Species richness and composition			
1. Number of species		23	5
2. Piscivore species		6	3
3. Sunfish species		4	5
4. Sucker species		4	3
5. Intolerant species		3	5
6. Percent tolerant species	electrofishing	2.9%	2.5
	gill netting	35.6%	0.5
7. Dominance *	electrofishing	63.7%	0.5
	gill netting	31.9%	1.5
B. Trophic compostion			
8. Percent omnivores	electrofishing	16.5%	1.5
	gill netting	47.2%	1.5
9. Percent insectivores	electrofishing	80.2%	2.5
	gill netting	29.4%	2.5
C. Reproductive composition			
10. Lithophilic spawning species		6	3
D. Fish abundance and health			
11. Average number of individuals	electrofishing	105.2	2.5
	gill netting	16.3	1.5
12. Percent anomalies		1.6%	5
RFAI			46 good

* Percent composition of most abundant species.

Table 17 . 1994 scoring results for the tweleve metrics and overall Reservoir Fish Assemblage Index (RFAI) for Melton Hill Reservoir.

Metric		Inflow Obs.	Inflow Score	Transition Obs.	Transition Score	Forebay Obs.	Forebay Score
A. Species richness and composition							
1. Number of species		15	3	31	5	25	5
2. Piscivore species		2	1	9	5	9	5
3. Sunfish species		3	3	5	5	4	3
4. Sucker species		4	3	7	5	4	3
5. Intolerant species		0	1	2	3	2	3
6. Percent tolerant species	electrofishing	57.7%	1	43.9%	1.5	17.1%	2.5
	gill netting	.	.	24.1%	1.5	10.2%	2.5
7. Dominance *	electrofishing	49.7%	3	40.0%	2.5	55.3%	1.5
	gill netting	.	.	21.8%	2.5	22.6%	2.5
B. Trophic compostion							
8. Percent omnivores	electrofishing	69.1%	1	46.5%	1.5	17.1%	2.5
	gill netting	.	.	59.8%	0.5	20.4%	2.5
9. Percent insectivores	electrofishing	28.0%	3	44.9%	1.5	78.4%	2.5
	gill netting	.	.	9.2%	1.5	5.3%	1.5
C. Reproductive composition							
10. Lithophilic spawning species		3	3	7	3	4	3
D. Fish abundance and health							
11. Average number of individuals	electrofishing	11.7	1	47.2	0.5	111.3	2.5
	gill netting	.	.	8.7	0.5	22.6	1.5
12. Percent anomalies		0.0%	5	3.9%	3	2.0%	5
RFAI			28 poor		43 good		49 good

* Percent composition of most abundant species.

Table 18. 1994 scoring results for the tweleve metrics and overall Reservoir Fish Assemblage Index (RFAI) for Nickajack Reservoir.

Metric		Inflow Obs.	Inflow Score	Forebay Obs.	Forebay Score
A. Species richness and composition					
1. Number of species		33	5	30	5
2. Piscivore species		11	5	9	5
3. Sunfish species		5	5	6	5
4. Sucker species		5	3	3	1
5. Intolerant species		5	5	4	3
6. Percent tolerant species	electrofishing	18.1%	5	21.7%	1.5
	gill netting	.	.	27.1%	1.5
7. Dominance *	electrofishing	17.0%	5	37.9%	2.5
	gill netting	.	.	28.0%	2.5
B. Trophic compostion					
8. Percent omnivores	electrofishing	27.3%	5	14.4%	2.5
	gill netting	.	.	39.8%	1.5
9. Percent insectivores	electrofishing	39.5%	3	71.6%	2.5
	gill netting	.	.	11.9%	1.5
C. Reproductive composition					
10. Lithophilic spawning species		9	5	7	5
D. Fish abundance and health					
11. Average number of individuals	electrofishing	70.5	3	50.0	1.5
	gill netting	.	.	11.8	0.5
12. Percent anomalies		6.8%	1	4.8%	3
RFAI			50 good		45 good

* Percent composition of most abundant species.

Table 19 . 1994 scoring results for the tweleve metrics and overall Reservoir Fish Assemblage Index (RFAI) for Normandy Reservoir.

Metric		Forebay Obs.	Forebay Score
A. Species richness and composition			
1. Number of species		23	5
2. Piscivore species		10	5
3. Sunfish species		3	3
4. Sucker species		3	3
5. Intolerant species		4	5
6. Percent tolerant species	electrofishing	21.4%	1.5
	gill netting	37.8%	0.5
7. Dominance *	electrofishing	34.4%	2.5
	gill netting	27.0%	2.5
B. Trophic compostion			
8. Percent omnivores	electrofishing	7.2%	2.5
	gill netting	41.3%	1.5
9. Percent insectivores	electrofishing	80.2%	2.5
	gill netting	12.8%	2.5
C. Reproductive composition			
10. Lithophilic spawning species		6	3
D. Fish abundance and health			
11. Average number of individuals	electrofishing	39.0	0.5
	gill netting	19.6	2.5
12. Percent anomalies		3.5%	3
RFAI			46 good

* Percent composition of most abundant species.

Table 20 . 1994 scoring results for the tweleve metrics and overall Reservoir Fish Assemblage Index (RFAI) for Norris Reservoir.

Metric		Transition Clinch		Transition Powell		Forebay	
		Obs.	Score	Obs.	Score	Obs.	Score
A. Species richness and composition							
1. Number of species		28	5	31	5	17	3
2. Piscivore species		12	5	11	5	7	5
3. Sunfish species		2	3	1	1	1	1
4. Sucker species		6	3	8	5	3	3
5. Intolerant species		4	5	3	5	2	3
6. Percent tolerant species	electrofishing	10.2%	2.5	3.4%	2.5	2.0%	2.5
	gill netting	27.2%	2.5	30.6%	1.5	26.5%	2.5
7. Dominance *	electrofishing	39.1%	2.5	37.6%	2.5	79.6%	0.5
	gill netting	24.7%	2.5	24.4%	2.5	46.9%	1.5
B. Trophic compostion							
8. Percent omnivores	electrofishing	10.0%	1.5	3.9%	2.5	2.0%	2.5
	gill netting	55.1%	1.5	35.0%	2.5	26.5%	2.5
9. Percent insectivores	electrofishing	65.7%	1.5	81.3%	2.5	87.9%	2.5
	gill netting	6.3%	2.5	26.9%	2.5	8.0%	2.5
C. Reproductive composition							
10. Lithophilic spawning species		9	5	10	5	6	5
D. Fish abundance and health							
11. Average number of individuals	electrofishing	32.9	0.5	27.4	0.5	33.7	0.5
	gill netting	15.8	1.5	16.0	1.5	11.3	0.5
12. Percent anomalies		1.6%	5	0.7%	5	1.3%	5
RFAI			50 good		52 excellent		43 good

* Percent composition of most abundant species.

Table 21 . 1994 scoring results for the tweleve metrics and overall Reservoir Fish Assemblage Index (RFAI) for Nottely Reservoir.

Metric		Transition Obs.	Transition Score	Forebay Obs.	Forebay Score
A. Species richness and composition					
1. Number of species		19	5	21	5
2. Piscivore species		8	5	9	5
3. Sunfish species		4	5	3	3
4. Sucker species		1	1	1	1
5. Intolerant species		0	1	0	1
6. Percent tolerant species	electrofishing	13.7%	2.5	8.9%	2.5
	gill netting	29.5%	0.5	21.0%	0.5
7. Dominance *	electrofishing	71.0%	0.5	78.9%	0.5
	gill netting	24.2%	2.5	17.8%	2.5
B. Trophic compostion					
8. Percent omnivores	electrofishing	4.0%	2.5	6.6%	1.5
	gill netting	34.4%	0.5	26.2%	1.5
9. Percent insectivores	electrofishing	86.0%	2.5	83.1%	1.5
	gill netting	0.8%	0.5	0.9%	0.5
C. Reproductive composition					
10. Lithophilic spawning species		3	3	3	3
D. Fish abundance and health					
11. Average number of individuals	electrofishing	56.7	1.5	32.3	1.5
	gill netting	24.4	2.5	21.4	2.5
12. Percent anomalies		10.3%	1	1.3%	5
RFAI			37 fair		38 fair

* Percent composition of most abundant species.

Table 22 . 1994 scoring results for the tweleve metrics and overall Reservoir Fish Assemblage Index (RFAI) for Parksville - ocoee no 1 Reservoir.

Metric		Forebay Obs.	Score
A. Species richness and composition			
1. Number of species		18	5
2. Piscivore species		5	3
3. Sunfish species		5	5
4. Sucker species		1	1
5. Intolerant species		2	3
6. Percent tolerant species	electrofishing	0.6%	2.5
	gill netting	0.0%	2.5
7. Dominance *	electrofishing	79.5%	0.5
	gill netting	41.5%	1.5
B. Trophic compostion			
8. Percent omnivores	electrofishing	0.5%	2.5
	gill netting	18.9%	1.5
9. Percent insectivores	electrofishing	96.0%	2.5
	gill netting	32.1%	2.5
C. Reproductive composition			
10. Lithophilic spawning species		2	1
D. Fish abundance and health			
11. Average number of individuals	electrofishing	98.7	2.5
	gill netting	5.3	0.5
12. Percent anomalies		1.3%	5
RFAI			42 good

* Percent composition of most abundant species.

Table 23 . 1994 scoring results for the tweleve metrics and overall Reservoir Fish Assemblage Index (RFAI) for Pickwick Reservoir.

Metric		Inflow Obs.	Inflow Score	Transition Obs.	Transition Score	Forebay Obs.	Forebay Score
A. Species richness and composition							
1. Number of species		35	5	38	5	34	5
2. Piscivore species		13	5	10	5	11	5
3. Sunfish species		3	3	4	5	5	5
4. Sucker species		8	5	6	3	4	3
5. Intolerant species		8	5	6	5	3	3
6. Percent tolerant species	electrofishing	40.2%	3	23.8%	2.5	38.6%	1.5
	gill netting	.	.	44.2%	0.5	34.5%	1.5
7. Dominance *	electrofishing	33.7%	5	22.9%	2.5	35.2%	2.5
	gill netting	.	.	43.4%	1.5	33.4%	1.5
B. Trophic compostion							
8. Percent omnivores	electrofishing	50.4%	3	25.8%	1.5	38.5%	1.5
	gill netting	.	.	56.6%	0.5	40.3%	1.5
9. Percent insectivores	electrofishing	35.3%	3	67.8%	2.5	53.6%	1.5
	gill netting	.	.	20.2%	2.5	6.5%	1.5
C. Reproductive composition							
10. Lithophilic spawning species		13	5	9	5	7	5
D. Fish abundance and health							
11. Average number of individuals	electrofishing	88.3	3	58.7	1.5	92.7	1.5
	gill netting	.	.	12.9	0.5	29.3	1.5
12. Percent anomalies		7.9%	1	3.3%	3	22.3%	1
RFAI			46 good		47 good		43 good

* Percent composition of most abundant species.

Table 24 . 1994 scoring results for the tweleve metrics and overall Reservoir Fish Assemblage Index (RFAI) for South Holston Reservoir.

Metric		Transition Obs.	Transition Score	Forebay Obs.	Forebay Score
A. Species richness and composition					
1. Number of species		22	5	21	5
2. Piscivore species		6	3	8	5
3. Sunfish species		2	3	2	3
4. Sucker species		7	5	4	3
5. Intolerant species		2	3	1	1
6. Percent tolerant species	electrofishing	25.3%	1.5	4.9%	2.5
	gill netting	33.6%	1.5	41.9%	1.5
7. Dominance *	electrofishing	53.2%	1.5	75.9%	0.5
	gill netting	22.1%	2.5	31.6%	1.5
B. Trophic compostion					
8. Percent omnivores	electrofishing	25.5%	0.5	9.2%	2.5
	gill netting	52.2%	1.5	45.6%	1.5
9. Percent insectivores	electrofishing	70.2%	2.5	87.4%	2.5
	gill netting	3.2%	1.5	0.7%	0.5
C. Reproductive composition					
10. Lithophilic spawning species		8	5	5	5
D. Fish abundance and health					
11. Average number of individuals	electrofishing	38.5	0.5	94.6	2.5
	gill netting	25.3	1.5	13.6	0.5
12. Percent anomalies		1.6%	5	1.3%	5
RFAI			44 good		43 good

* Percent composition of most abundant species.

Table 25 . 1994 scoring results for the tweleve metrics and overall Reservoir Fish Assemblage Index (RFAI) for Tellico Reservoir.

Metric		Transition Obs.	Transition Score	Forebay Obs.	Forebay Score
A. Species richness and composition					
1. Number of species		30	5	33	5
2. Piscivore species		11	5	12	5
3. Sunfish species		5	5	4	3
4. Sucker species		5	3	5	3
5. Intolerant species		2	3	3	3
6. Percent tolerant species	electrofishing	16.1%	2.5	8.7%	2.5
	gill netting	30.3%	1.5	16.7%	2.5
7. Dominance *	electrofishing	31.8%	2.5	33.8%	2.5
	gill netting	22.5%	2.5	24.8%	2.5
B. Trophic compostion					
8. Percent omnivores	electrofishing	16.2%	2.5	7.8%	2.5
	gill netting	47.2%	0.5	26.6%	2.5
9. Percent insectivores	electrofishing	78.0%	2.5	84.7%	2.5
	gill netting	3.9%	0.5	6.3%	1.5
C. Reproductive composition					
10. Lithophilic spawning species		7	3	8	5
D. Fish abundance and health					
11. Average number of individuals	electrofishing	36.9	0.5	67.7	1.5
	gill netting	17.8	1.5	22.2	1.5
12. Percent anomalies		3.0%	3	6.9%	1
RFAI			44 good		47 good

* Percent composition of most abundant species.

Table 26 . 1994 scoring results for the tweleve metrics and overall Reservoir Fish Assemblage Index (RFAI) for Tims Ford Reservoir.

Metric		Transition Obs.	Transition Score	Forebay Obs.	Forebay Score
A. Species richness and composition					
1. Number of species		24	5	23	5
2. Piscivore species		8	5	10	5
3. Sunfish species		2	3	4	5
4. Sucker species		6	3	4	3
5. Intolerant species		2	3	3	5
6. Percent tolerant species	electrofishing	22.4%	1.5	7.1%	2.5
	gill netting	13.5%	2.5	19.0%	2.5
7. Dominance *	electrofishing	46.2%	1.5	74.9%	0.5
	gill netting	24.0%	2.5	19.0%	2.5
B. Trophic compostion					
8. Percent omnivores	electrofishing	12.6%	1.5	1.8%	2.5
	gill netting	42.1%	1.5	30.6%	2.5
9. Percent insectivores	electrofishing	81.1%	2.5	92.6%	2.5
	gill netting	3.5%	1.5	4.1%	1.5
C. Reproductive composition					
10. Lithophilic spawning species		8	5	5	3
D. Fish abundance and health					
11. Average number of individuals	electrofishing	61.7	1.5	100.7	2.5
	gill netting	17.1	1.5	12.1	1.5
12. Percent anomalies		1.8%	5	4.3%	3
RFAI			47 good		50 good

* Percent composition of most abundant species.

Table 27 . 1994 scoring results for the tweleve metrics and overall Reservoir Fish Assemblage Index (RFAI) for Watauga Reservoir.

Metric		Transition Obs.	Transition Score	Forebay Obs.	Forebay Score
A. Species richness and composition					
1. Number of species		14	3	15	3
2. Piscivore species		6	5	5	3
3. Sunfish species		1	1	1	1
4. Sucker species		2	3	3	3
5. Intolerant species		2	3	2	3
6. Percent tolerant species	electrofishing	9.5%	2.5	3.1%	2.5
	gill netting	12.2%	1.5	46.3%	0.5
7. Dominance *	electrofishing	60.3%	0.5	54.4%	1.5
	gill netting	61.5%	0.5	37.0%	1.5
B. Trophic compostion					
8. Percent omnivores	electrofishing	11.6%	0.5	5.7%	1.5
	gill netting	12.2%	2.5	50.0%	0.5
9. Percent insectivores	electrofishing	75.1%	1.5	66.3%	0.5
	gill netting	0.0%	0.5	0.0%	0.5
C. Reproductive composition					
10. Lithophilic spawning species		3	3	4	3
D. Fish abundance and health					
11. Average number of individuals	electrofishing	24.7	0.5	23.5	0.5
	gill netting	14.8	1.5	5.4	0.5
12. Percent anomalies		1.2%	5	0.7%	5
RFAI			35 fair		31 poor

* Percent composition of most abundant species.

Table 28 . 1994 scoring results for the tweleve metrics and overall Reservoir Fish Assemblage Index (RFAI) for Watts Bar Reservoir.

Metric		Inflow Clinch Obs.	Inflow Clinch Score	Inflow Tennessee Obs.	Inflow Tennessee Score	Transition Obs.	Transition Score	Forebay Obs.	Forebay Score
A. Species richness and composition									
1. Number of species		29	5	33	5	32	5	31	5
2. Piscivore species		8	5	12	5	10	5	11	5
3. Sunfish species		4	3	4	3	6	5	4	3
4. Sucker species		5	3	6	3	3	1	3	1
5. Intolerant species		4	3	4	3	3	3	2	3
6. Percent tolerant species	electrofishing	46.7%	3	28.6%	5	8.8%	2.5	5.7%	2.5
	gill netting	.	.	.	.	5.1%	2.5	10.7%	2.5
7. Dominance *	electrofishing	44.1%	3	23.1%	5	33.0%	2.5	69.1%	0.5
	gill netting	.	.	.	.	31.4%	1.5	46.4%	1.5
B. Trophic compostion									
8. Percent omnivores	electrofishing	48.5%	3	30.1%	3	9.5%	2.5	5.3%	2.5
	gill netting	.	.	.	.	17.7%	2.5	15.7%	2.5
9. Percent insectivores	electrofishing	20.5%	1	48.2%	3	74.5%	2.5	91.3%	2.5
	gill netting	.	.	.	.	4.0%	0.5	4.3%	0.5
C. Reproductive composition									
10. Lithophilic spawning species		8	5	11	5	6	3	7	5
D. Fish abundance and health									
11. Average number of individuals	electrofishing	61.5	3	54.1	3	124.0	2.5	157.9	2.5
	gill netting	.	.	.	.	17.5	1.5	14.0	0.5
12. Percent anomalies		2.3%	3	3.2%	3	3.1%	3	2.9%	3
RFAI			40 fair		46 good		46 good		43 good

* Percent composition of most abundant species.

Table 29 . 1994 scoring results for the tweleve metrics and overall Reservoir Fish Assemblage Index (RFAI) for Wheeler Reservoir.

Metric		Inflow Obs.	Inflow Score	Transition Obs.	Transition Score	Forebay Obs.	Forebay Score
A. Species richness and composition							
1. Number of species		34	5	33	5	26	3
2. Piscivore species		12	5	11	5	10	5
3. Sunfish species		4	3	5	5	4	5
4. Sucker species		9	5	6	3	4	3
5. Intolerant species		4	3	4	3	4	3
6. Percent tolerant species	electrofishing	22.3%	5	26.4%	1.5	50.7%	0.5
	gill netting	.	.	30.1%	1.5	21.6%	1.5
7. Dominance *	electrofishing	26.2%	5	30.1%	2.5	50.6%	1.5
	gill netting	.	.	28.9%	2.5	39.9%	1.5
B. Trophic compostion							
8. Percent omnivores	electrofishing	26.6%	5	26.8%	1.5	51.4%	0.5
	gill netting	.	.	45.8%	0.5	26.8%	2.5
9. Percent insectivores	electrofishing	29.3%	3	58.4%	1.5	42.4%	1.5
	gill netting	.	.	18.1%	2.5	14.4%	1.5
C. Reproductive composition							
10. Lithophilic spawning species		11	5	9	5	7	5
D. Fish abundance and health							
11. Average number of individuals	electrofishing	82.3	3	55.7	1.5	81.1	1.5
	gill netting	.	.	8.3	0.5	15.3	1.5
12. Percent anomalies		7.3%	1	8.0%	1	3.5%	3
RFAI			48 good		43 good		41 good

* Percent composition of most abundant species.

Table 30 . 1994 scoring results for the tweleve metrics and overall Reservoir Fish Assemblage Index (RFAI) for Wilson Reservoir.

Metric		Inflow Obs.	Inflow Score	Forebay Obs.	Forebay Score
A. Species richness and composition					
1. Number of species		31	5	29	5
2. Piscivore species		12	5	10	5
3. Sunfish species		5	5	4	5
4. Sucker species		4	3	4	3
5. Intolerant species		4	3	4	3
6. Percent tolerant species	electrofishing	42.4%	3	40.8%	1.5
	gill netting	.	.	17.6%	2.5
7. Dominance *	electrofishing	41.8%	3	40.4%	1.5
	gill netting	.	.	17.6%	2.5
B. Trophic compostion					
8. Percent omnivores	electrofishing	47.0%	3	41.5%	1.5
	gill netting	.	.	35.2%	1.5
9. Percent insectivores	electrofishing	41.8%	3	48.8%	1.5
	gill netting	.	.	14.8%	1.5
C. Reproductive composition					
10. Lithophilic spawning species		6	3	8	5
D. Fish abundance and health					
11. Average number of individuals	electrofishing	87.2	3	77.5	1.5
	gill netting	.	.	10.8	0.5
12. Percent anomalies		7.8%	1	4.0%	3
RFAI			40 fair		45 good

* Percent composition of most abundant species.

Section 5

Fish Community

Appendix B.

Mean Catch Per Effort by Species
for Electrofishing and Gill Netting Efforts
at Each Location in 1994

Section 5

Fish Community

Appendix B.

Mean Catch Per Effort by Species
for Electrofishing and Gill Netting Efforts
at Each Location in 1994

Table 1. Species listing and catch per unit effort at the transition during fall electrofishing and gill netting on Bear Creek, 1994 (electrofishing effort = 300 meters of shoreline and gill netting effort = net-nights).

Comman name	Electrofishing Forebay	Gill Netting Forebay
Gizzard shad	14.4	3.9
Threadfin shad	2.8	.
Common carp	.	0.1
River carpsucker	.	0.1
Quillback carpsucker	0.1	2.7
Northern hogsucker	0.6	.
Black buffalo	0.6	0.4
Spotted sucker	0.8	1.2
Black redhorse	2.9	0.6
Golden redhorse	0.6	0.3
Channel catfish	0.5	1.0
Flathead catfish	0.1	0.4
Blackspotted topminnow	2.1	.
White bass	.	0.6
Striped x white bass	.	0.1
Warmouth	0.1	0.1
Green sunfish	2.3	.
Bluegill	6.6	0.2
Longear sunfish	0.7	.
Redear sunfish	0.1	.
Spotted bass	8.5	0.2
Largemouth bass	4.1	0.1
White crappie	2.2	2.7
Logperch	0.5	.
Total	50.6	14.7
Number of samples	15	10
Number collected	759	147
Species collected	20	17

Table 2. Species listing and catch per unit effort at the transition during fall electrofishing and gill netting on Beech lake, 1994 (electrofishing effort = 300 meters of shoreline and gill netting effort = net-nights).

Comman name	Electrofishing Forebay	Gill Netting Forebay
Gizzard shad	8.7	14.0
Hybrid shad	3.8	.
Common carp	1.0	0.3
Golden shiner	.	0.2
Pugnose minnow	0.7	.
Lake chubsucker	0.1	.
Yellow bullhead	.	0.5
Channel catfish	0.4	1.6
Yellow bass	0.5	8.4
Striped x white bass	.	0.1
Warmouth	0.3	.
Green sunfish	0.1	.
Orangespotted sunfish	0.1	.
Bluegill	30.8	0.1
Longear sunfish	0.5	.
Redear sunfish	0.8	.
Smallmouth bass	0.1	.
Largemouth bass	9.7	1.0
White crappie	.	0.5
Black crappie	0.1	0.9
Total	57.5	27.6
Number of samples	15	10
Number collected	863	276
Species collected	16	11

Table 3. Species listing and catch per unit effort at the transition during fall electrofishing and gill netting on Blue Ridge, 1994 (electrofishing effort = 300 meters of shoreline and gill netting effort = net-nights).

Comman name	Electrofishing Forebay	Gill Netting Forebay
Gizzard shad	.	2.4
Whitetail shiner	5.5	.
Northern hogsucker	0.1	.
River redhorse	.	0.1
Black redhorse	.	0.1
Channel catfish	1.2	0.3
Flathead catfish	0.1	0.5
White bass	.	0.7
Warmouth	0.1	.
Redbreast sunfish	4.0	.
Green sunfish	0.3	.
Bluegill	10.4	0.1
Smallmouth bass	3.3	1.8
Largemouth bass	3.9	.
Black crappie	1.3	.
Walleye	.	0.7
Total	30.1	6.7
Number of samples	15	10
Number collected	452	67
Species collected	11	9

Table 4. Species listing and catch per unit effort at the transition during fall electrofishing and gill netting on Boone, 1994 (electrofishing effort = 300 meters of shoreline and gill netting effort = net-nights).

Comman name	Electrofishing Transition Watauga	Electrofishing Transition South Fork of the Holston	Electrofishing Forebay	Gill Netting Transition Watauga	Gill Netting Transition South Fork of the Holston	Gill Netting Forebay
Longnose gar	.	.	.	.	0.8	.
Alewife	.	.	.	.	.	0.1
Gizzard shad	4.9	21.8	11.7	3.9	4.7	3.0
Threadfin shad	5.3	.	0.1	.	.	.
Common carp	5.5	2.3	0.9	6.7	2.5	1.8
Spotfin shiner	10.0	28.1	9.5	.	.	.
Bluntnose minnow	0.1	.	0.4	.	.	.
Quillback carpsucker	0.3	.	.	0.5	.	.
Northern hogsucker	.	0.2	0.1	.	.	.
Black redhorse	.	0.5	.	.	.	.
Golden redhorse	0.1	1.3	0.1	.	0.1	.
Blue catfish	.	.	.	1.2	0.1	.
Channel catfish	0.1	0.1	.	3.5	1.6	1.5
Flathead catfish	0.1	0.1	0.2	0.3	0.5	0.4
White bass	.	.	.	0.3	0.1	0.1
Striped bass	0.1	.	.	0.2	.	0.7
Striped x white bass	.	.	0.1	0.7	2.2	3.6
Warmouth	0.1	0.2	1.3	.	.	.
Redbreast sunfish	.	0.3	0.1	.	.	.
Green sunfish	1.6	1.6	4.8	.	.	.
Bluegill	42.2	25.0	30.7	0.3	0.4	0.5
Hybrid sunfish	.	0.1	0.1	.	.	.
Smallmouth bass	6.3	3.4	4.1	0.3	1.2	0.3
Spotted bass	0.2	.	.	.	.	.
Largemouth bass	11.3	3.9	3.7	.	0.1	.
White crappie	0.1	0.3	.	.	0.1	.
Black crappie	0.7	0.2	.	.	0.1	0.2
Logperch	1.3	.	.	.	.	.
Walleye	.	.	.	.	0.1	.
Total	90.5	89.5	67.9	17.9	14.6	12.2
Number of samples	15	15	15	10	10	10
Number collected	1357	1343	1018	179	146	122
Species collected	19	17	16	11	15	11

Table 5. Species listing and catch per unit effort at the transition during fall electrofishing and gill netting on Cedar Creek, 1994 (electrofishing effort = 300 meters of shoreline and gill netting effort = net-nights).

Comman name	Electrofishing Forebay	Gill Netting Forebay
Longnose gar	.	0.2
Gizzard shad	2.6	4.2
Hybrid shad	0.1	.
Common carp	2.1	1.3
Spotfin shiner	0.1	.
Bluntnose minnow	0.1	.
Quillback carpsucker	.	2.0
Black buffalo	0.1	.
Spotted sucker	0.7	0.6
Silver redhorse	.	0.1
Shorthead redhorse	0.1	.
Black redhorse	0.1	.
Golden redhorse	0.5	0.4
Channel catfish	0.1	0.8
Flathead catfish	0.1	0.1
Blackspotted topminnow	3.6	.
White bass	0.1	4.8
Yellow bass	.	0.4
Striped x white bass	.	0.5
Green sunfish	0.6	.
Bluegill	28.0	0.1
Longear sunfish	1.2	.
Redear sunfish	0.1	.
Smallmouth bass	0.1	0.1
Spotted bass	3.9	4.5
Largemouth bass	1.9	0.7
White crappie	0.1	0.2
Logperch	1.3	.
Freshwater drum	.	0.2
Brook silverside	0.1	.
Total	47.3	21.2
Number of samples	15	10
Number collected	710	212
Species collected	24	18

Table 6. Species listing and catch per unit effort at the transition during fall electrofishing and gill netting on Chatuge, 1994 (electrofishing effort = 300 meters of shoreline and gill netting effort = net-nights).

Comman name	Electrofishing Forebay	Electrofishing Shooting Creek	Gill Netting Forebay	Gill Netting Shooting Creek
Gizzard shad	.	0.3	2.1	1.6
Hybrid shad	.	.	0.2	0.2
Common carp	0.1	0.1	0.4	0.3
Whitetail shiner	6.5	7.1	.	.
Northern hogsucker	0.1	.	0.1	.
Channel catfish	0.1	0.1	0.5	0.2
Snail bullhead	.	0.1	1.5	0.5
White bass	.	.	5.8	3.0
Striped x white bass	.	.	4.6	4.5
Warmouth	0.3	1.3	.	.
Redbreast sunfish	3.9	5.1	.	.
Bluegill	21.9	44.4	0.4	0.1
Redear sunfish	0.1	0.1	.	.
Smallmouth bass	0.2	0.3	0.4	0.1
Spotted bass	15.9	7.1	3.2	3.1
Largemouth bass	2.0	3.5	.	.
Black crappie	.	0.3	0.2	0.2
Yellow perch	0.1	0.1	.	.
Walleye	.	.	0.1	0.4
Total	51.1	69.7	19.5	14.2
Number of samples	15	15	10	10
Number collected	766	1046	195	142
Species collected	12	14	13	12

Table 7. Species listing and catch per unit effort at the transition during fall electrofishing and gill netting on Cherokee, 1994 (electrofishing effort = 300 meters of shoreline and gill netting effort = net-nights).

Comman name	Electrofishing Transition	Electrofishing Forebay	Gill Netting Transition	Gill Netting Forebay
Longnose gar	.	.	0.1	.
Alewife	.	0.1	.	.
Gizzard shad	8.6	0.9	8.3	2.7
Threadfin shad	.	.	.	0.4
Hybrid shad	.	.	.	0.1
Common carp	1.3	0.5	2.3	0.9
Spotfin shiner	45.1	9.1	.	.
Bluntnose minnow	0.1	3.4	.	.
River carpsucker	.	.	2.6	0.8
Quillback carpsucker	.	.	3.8	8.8
Smallmouth buffalo	.	.	.	0.1
Golden redhorse	.	0.1	.	.
Blue catfish	.	.	.	0.2
Channel catfish	0.2	0.1	1.3	0.4
Flathead catfish	0.3	0.2	0.8	0.5
White bass	.	0.1	1.0	.
Striped bass	.	0.1	2.1	3.4
Warmouth	1.3	0.1	.	.
Green sunfish	0.2	.	.	.
Bluegill	19.3	22.6	0.8	0.2
Smallmouth bass	0.8	0.3	.	.
Spotted bass	0.1	.	.	.
Largemouth bass	4.5	2.3	0.5	0.4
White crappie	0.1	.	0.2	.
Black crappie	0.1	0.1	1.6	0.4
Logperch	8.1	0.9	.	.
Walleye	.	.	1.3	1.7
Freshwater drum	0.6	0.1	0.1	0.5
Brook silverside	2.1	.	.	.
Total	92.9	40.8	26.8	21.5
Number of samples	15	15	10	10
Number collected	1393	612	268	215
Species collected	17	17	15	16

Table 8. Species listing and catch per unit effort at the transition during fall electrofishing and gill netting on Chickamauga, 1994 (electrofishing effort = 300 meters of shoreline and gill netting effort = net-nights).

Comman name	Electrofishing Inflow	Electrofishing Transition	Electrofishing Forebay	Electrofishing Embayment	Gill Netting Transition	Gill Netting Forebay	Gill Netting Embayment
Chestnut lamprey	.	0.2	.	0.1	.	.	.
Spotted gar	.	.	.	0.2	.	.	.
Skipjack herring	0.7	.	0.1	.	0.8	1.7	.
Gizzard shad	12.4	10.1	4.1	4.3	2.8	5.6	0.8
Threadfin shad	7.1	.	.	.	.	.	.
Central stoneroller	0.4	.	.	.	.	.	.
Common carp	0.9	1.4	1.0	2.1	.	0.1	0.5
Golden shiner	0.4	0.1	.	2.9	0.1	0.5	.
Emerald shiner	4.0	5.8	6.3	2.5	.	.	.
Spotfin shiner	0.8	1.9	.	0.1	.	.	.
Steelcolor shiner	6.2	.	0.1	.	.	.	.
Bluntnose minnow	1.6	.	.	.	.	.	.
Bullhead minnow	.	0.1	.	.	.	.	.
River carpsucker	.	0.1	.	.	.	.	.
Northern hogsucker	0.1	.	0.2	.	.	.	.
Smallmouth buffalo	0.3	.	.	.	.	.	0.1
Spotted sucker	1.9	0.3	0.4	2.3	0.5	.	1.3
Black redhorse	0.4	.	.	.	.	.	.
Golden redhorse	0.5	.	.	.	.	.	0.4
Blue catfish	0.1	.	.	.	0.4	0.7	.
Channel catfish	0.7	.	0.1	.	0.4	0.7	0.6
Flathead catfish	0.5	0.1	0.3	.	0.5	0.3	0.4
White bass	0.4	0.1	.	.	.	.	0.3
Yellow bass	4.9	0.3	.	0.7	6.2	1.4	1.2
Striped bass	.	.	.	.	.	0.1	.
Warmouth	0.6	0.1	.	0.2	.	.	.
Redbreast sunfish	3.4	0.5	2.0	0.2	.	.	.
Green sunfish	0.5	0.1	0.7	.	.	.	.
Bluegill	33.2	14.5	26.3	24.1	0.1	0.3	0.1
Longear sunfish	0.1	0.1	0.2	.	.	.	.
Redear sunfish	18.3	3.7	5.3	7.3	1.0	0.2	0.8
Hybrid sunfish	0.1	.	0.1	.	.	.	.
Smallmouth bass	3.6	0.5	2.1	.	0.1	.	.
Spotted bass	4.3	3.5	8.8	0.9	1.3	0.2	0.5
Largemouth bass	7.7	1.0	2.1	3.5	0.1	0.4	.
White crappie	0.1	0.1	.	.	0.2	.	.
Black crappie	0.5	0.2	0.1	0.5	.	0.2	.
Yellow perch	0.2	0.3	0.1	1.9	.	.	.
Logperch	4.5	.	1.7	0.1	.	.	.
Sauger	0.1	.	.	0.1	0.5	0.2	0.2
Walleye	.	.	.	.	.	.	1.5
Freshwater drum	0.5	0.3	0.7	0.5	0.5	0.9	0.2
Brook silverside	1.9	.	17.3	.	.	.	.
Total	123.9	45.3	80.0	54.5	15.5	13.5	8.9
Number of samples	15	15	15	15	10	10	10
Number collected	1858	680	1200	818	155	135	89
Species collected	37	25	23	20	16	16	15

Table 9. Species listing and catch per unit effort at the transition during fall electrofishing and gill netting on Douglas, 1994 (electrofishing effort = 300 meters of shoreline and gill netting effort = net-nights).

Comman name	Electrofishing Transition	Electrofishing Forebay	Gill Netting Transition	Gill Netting Forebay
Gizzard shad	8.9	16.5	6.2	19.8
Threadfin shad	.	.	6.4	.
Common carp	0.2	0.4	0.6	0.4
Spotfin shiner	11.1	3.3	.	.
River carpsucker	.	.	2.0	0.1
Quillback carpsucker	.	.	3.1	0.2
Northern hogsucker	0.1	0.3	.	.
Smallmouth buffalo	.	.	0.3	0.3
Shorthead redhorse	0.3	.	.	0.3
River redhorse	.	0.1	.	.
Black redhorse	0.1	.	.	.
Blue catfish	.	.	.	0.1
Channel catfish	0.1	0.1	0.4	0.4
Flathead catfish	0.7	0.1	0.2	.
White bass	0.3	0.1	3.2	6.2
Striped bass	.	.	0.1	.
Warmouth	0.1	0.3	.	.
Redbreast sunfish	0.1	.	.	.
Green sunfish	0.1	0.3	.	.
Bluegill	10.4	14.5	.	0.7
Smallmouth bass	.	.	.	0.1
Largemouth bass	31.0	11.7	1.5	0.7
White crappie	0.7	0.7	0.3	0.6
Black crappie	0.9	0.7	.	2.3
Hybrid crappie	0.1	.	.	.
Logperch	40.1	6.8	.	.
Sauger	.	.	0.7	0.1
Walleye	.	.	.	0.1
Freshwater drum	0.1	.	1.5	0.1
Total	105.5	55.7	26.5	32.5
Number of samples	15	15	10	10
Number collected	1582	835	265	325
Species collected	19	15	14	17

Table 10. Species listing and catch per unit effort at the transition during fall electrofishing and gill netting on Fontana, 1994 (electrofishing effort = 300 meters of shoreline and gill netting effort = net-nights).

Comman name	Electrofishing Transition Little Tennessee	Electrofishing Transition Tuckasegee	Electrofishing Forebay	Gill Netting Transition Little Tennessee	Gill Netting Transition Tuckasegee	Gill Netting Forebay
Gizzard shad	0.5	0.1	0.3	1.8	0.7	0.3
Threadfin shad	0.8	.	.	.	.	.
Rainbow trout	.	.	.	0.1	.	0.4
Common carp	.	.	.	1.0	0.6	0.3
Golden shiner	.	.	0.1	.	.	.
Whitetail shiner	.	.	22.3	.	.	.
Silver shiner	0.1	.	.	.	.	.
Northern hogsucker	0.1	.	.	.	.	.
Silver redhorse	.	.	.	0.2	0.2	.
River redhorse	0.6	.	.	0.5	0.8	0.2
Golden redhorse	0.1	.	.	0.3	.	.
Sicklefin redhorse	.	.	.	.	.	0.1
Channel catfish	0.1	0.1	0.3	0.7	0.3	0.4
Flathead catfish	0.9	1.0	1.3	0.5	0.5	0.7
White bass	.	.	.	0.8	5.6	0.4
Green sunfish	10.7	16.0	11.0	.	.	.
Bluegill	14.3	6.7	5.7	.	.	.
Smallmouth bass	4.3	4.9	5.5	0.9	2.3	3.4
Largemouth bass	1.8	1.1	0.9	1.3	0.3	0.4
Black crappie	0.1	.	.	0.8	0.4	0.2
Tangerine darter	0.8	0.1	0.2	.	.	.
Walleye	.	.	.	5.8	4.7	4.7
Total	35.2	30.0	47.5	14.7	16.4	11.5
Number of samples	15	15	15	10	10	10
Number collected	528	450	713	147	164	115
Species collected	14	8	10	13	11	12

Table 11. Species listing and catch per unit effort at the transition during fall electrofishing and gill netting on Fort Loudoun, 1994 (electrofishing effort = 300 meters of shoreline and gill netting effort = net-nights).

Comman name	Electrofishing Inflow	Electrofishing Transition	Electrofishing Forebay	Gill Netting Transition	Gill Netting Forebay
Chestnut lamprey	0.1	.	.	.	.
Spotted gar	0.3	0.1	.	.	.
Skipjack herring	.	.	0.1	1.4	14.8
Gizzard shad	18.5	41.2	115.3	2.3	4.1
Threadfin shad	8.9	0.3	2447.1	.	0.1
Hybrid shad	.	.	0.3	.	.
Common carp	3.4	5.5	3.6	1.3	1.3
Golden shiner	.	0.1	.	.	.
Emerald shiner	0.3	1.0	.	.	.
Spotfin shiner	1.9	1.7	1.4	.	.
Bullhead minnow	.	0.1	.	.	.
River carpsucker	0.3	.	.	.	.
Quillback carpsucker	.	.	.	.	0.1
Northern hogsucker	0.1	.	0.3	.	.
Smallmouth buffalo	0.4	1.6	0.7	0.2	0.8
Black buffalo	0.1	0.1	0.1	0.2	0.1
Spotted sucker	.	0.1	.	.	.
Silver redhorse	0.3	.	.	.	.
River redhorse	0.1	.	.	.	.
Black redhorse	0.1	.	.	.	.
Golden redhorse	1.1	.	.	.	.
Blue catfish	0.1	.	.	0.8	0.6
Channel catfish	0.6	0.3	0.1	0.9	0.8
Flathead catfish	0.1	.	.	0.8	0.8
White bass	0.1	0.1	0.5	1.3	4.0
Yellow bass	0.1	0.1	0.1	0.6	0.8
Striped bass	.	.	0.1	.	0.1
Warmouth	.	0.3	.	.	0.1
Redbreast sunfish	0.4	0.3	0.4	.	.
Green sunfish	0.2	0.2	0.1	.	.
Bluegill	0.6	15.3	23.7	0.4	0.9
Redear sunfish	0.1	0.1	0.1	.	0.1
Hybrid sunfish	.	0.1	.	.	.
Smallmouth bass	0.1	0.9	1.2	.	0.4
Spotted bass	1.1	.	.	.	.
Largemouth bass	0.8	3.3	8.1	.	.
White crappie	.	0.2	.	0.1	.
Yellow perch	0.1	0.1	0.3	.	.
Logperch	1.9	0.7	2.7	.	.
Sauger	.	.	.	0.3	0.4
Freshwater drum	.	0.4	0.3	1.2	0.9
Brook silverside	.	0.2	0.1	.	.
Total	42.0	74.4	2606.7	11.8	31.2
Number of samples	15	15	15	10	10
Number collected	630	1116	39101	118	312
Species collected	29	27	23	14	19

Table 12. Species listing and catch per unit effort at the transition during fall electrofishing and gill netting on Fort Patrick Henry, 1994 (electrofishing effort = 300 meters of shoreline and gill netting effort = net-nights).

Comman name	Electrofishing Forebay	Gill Netting Forebay
Alewife	.	0.4
Gizzard shad	19.9	8.8
Common carp	3.9	3.0
Spotfin shiner	23.4	.
White sucker	.	0.8
Northern hogsucker	0.3	.
Blue catfish	.	0.3
Yellow bullhead	0.1	0.1
Channel catfish	0.1	0.7
Striped bass	0.1	.
Striped x white bass	0.1	.
Rock bass	0.1	0.4
Warmouth	0.9	.
Green sunfish	0.8	.
Bluegill	13.7	0.1
Longear sunfish	1.2	.
Hybrid sunfish	0.2	.
Smallmouth bass	3.2	0.1
Largemouth bass	4.6	.
White crappie	0.1	.
Black crappie	0.1	.
Total	72.5	14.7
Number of samples	15	10
Number collected	1088	147
Species collected	18	10

Table 13. Species listing and catch per unit effort at the transition during fall electrofishing and gill netting on Guntersville, 1994 (electrofishing effort = 300 meters of shoreline and gill netting effort = net-nights).

Comman name	Electrofishing Inflow	Electrofishing Transition	Electrofishing Forebay	Gill Netting Transition	Gill Netting Forebay
Spotted gar	0.6	1.3	1.0	0.4	.
Longnose gar	3.5	.	.	0.1	.
Bowfin	0.1	.	.	.	.
Skipjack herring	0.1	0.3	.	1.4	2.3
Gizzard shad	9.5	40.1	8.3	5.2	7.9
Threadfin shad	.	.	1.7	0.1	2.0
Mooneye	.	.	.	0.1	.
Common carp	0.3	0.6	0.3	.	.
Golden shiner	.	0.3	.	0.1	.
Emerald shiner	2.1	12.7	.	.	.
Spotfin shiner	0.5	.	0.9	.	.
Steelcolor shiner	0.2	.	.	.	.
Smallmouth buffalo	0.6	0.1	.	.	.
Bigmouth buffalo	0.1	.	.	.	.
Black buffalo	0.1	.	.	.	.
Spotted sucker	0.1	.	0.6	.	.
Golden redhorse	0.7	.	.	.	.
Blue catfish	2.6	.	.	0.2	0.3
Channel catfish	3.4	0.1	0.2	1.8	0.5
Flathead catfish	.	.	1.1	.	.
White bass	0.2	.	0.1	0.1	.
Yellow bass	1.3	0.1	0.1	8.1	1.6
Striped bass	.	.	.	.	0.1
Warmouth	0.1	.	.	.	.
Redbreast sunfish	0.5	0.3	0.7	.	.
Bluegill	7.8	7.7	20.9	0.4	0.1
Longear sunfish	0.3	0.2	1.4	.	.
Redear sunfish	3.3	0.9	1.4	1.1	.
Hybrid sunfish	.	0.1	.	.	.
Smallmouth bass	0.3	.	0.1	.	.
Spotted bass	1.2	0.1	3.5	0.2	0.1
Largemouth bass	1.1	2.1	1.4	0.1	.
Yellow perch	.	0.2	.	.	.
Logperch	0.8	0.7	2.9	.	.
Dusky darter	.	.	0.1	.	.
Sauger	0.3	0.1	0.1	0.1	0.2
Freshwater drum	0.6	0.5	0.3	0.1	0.6
Brook silverside	2.3	.	.	.	.
Total	44.4	68.5	47.1	19.6	15.7
Number of samples	15	15	15	10	10
Number collected	666	1027	707	196	157
Species collected	30	20	21	17	11

Table 14. Species listing and catch per unit effort at the transition during fall electrofishing and gill netting on Hiwassee, 1994 (electrofishing effort = 300 meters of shoreline and gill netting effort = net-nights).

Comman name	Electrofishing Transition	Electrofishing Forebay	Gill Netting Transition	Gill Netting Forebay
Gizzard shad	0.1	.	2.3	1.9
Threadfin shad	.	0.1	.	.
Hybrid shad	.	.	0.1	.
Rainbow trout	.	.	.	0.1
Common carp	0.1	0.9	0.6	0.2
Whitetail shiner	.	0.2	.	.
Northern hogsucker	0.2	.	.	.
Silver redhorse	.	.	1.0	1.2
Shorthead redhorse	.	.	.	0.1
River redhorse	.	0.1	.	0.2
Black redhorse	0.1	0.1	.	0.2
Golden redhorse	.	0.1	0.2	.
Sicklefin redhorse	.	.	.	0.8
Channel catfish	0.1	0.1	0.1	0.4
Flathead catfish	0.5	0.3	0.7	0.5
White bass	.	.	3.7	2.3
Redbreast sunfish	.	0.4	.	.
Green sunfish	2.1	16.2	0.1	.
Bluegill	27.6	14.9	.	0.2
Smallmouth bass	3.5	1.7	3.5	4.2
Spotted bass	2.2	1.1	0.1	1.5
Largemouth bass	1.2	1.4	1.1	0.5
Black crappie	0.3	0.7	0.3	0.9
Yellow perch	0.1	.	.	0.5
Walleye	0.1	.	1.1	2.5
Total	38.3	38.1	14.9	18.2
Number of samples	15	15	10	10
Number collected	574	572	149	182
Species collected	14	15	14	18

Table 15. Species listing and catch per unit effort at the transition during fall electrofishing and gill netting on Kentucky, 1994 (electrofishing effort = 300 meters of shoreline and gill netting effort = net-nights).

Comman name	Electrofishing Inflow	Electrofishing Transition	Electrofishing Forebay	Electrofishing Embayment	Gill Netting Transition	Gill Netting Forebay	Gill Netting Embayment
Chestnut lamprey	0.1	0.1	0.1	.	0.1	.	.
Longnose gar	.	.	0.1	.	.	.	.
Bowfin	0.5	.	.	.	.	.	.
Skipjack herring	4.6	28.1	0.2	3.9	5.0	7.3	1.3
Gizzard shad	463.9	166.1	741.8	114.3	10.1	38.8	6.5
Threadfin shad	181.4	1997.5	43.1	56.4	1.1	.	0.2
Goldeye	.	.	.	.	.	0.2	.
Chain pickerel	.	0.1	.	.	0.1	.	.
Common carp	0.9	0.5	3.7	0.5	0.6	0.8	0.1
Golden shiner	.	0.2	.	.	0.7	.	.
Emerald shiner	.	1.5	3.9	0.3	.	.	.
Spotfin shiner	0.1	0.3	.	.	.	.	.
Steelcolor shiner	.	0.1	.	.	.	.	.
Bullhead minnow	0.7	0.1	.	.	.	.	.
Grass carp	.	.	0.3	.	.	0.2	.
Bighead carp	.	.	.	.	.	0.1	.
River carpsucker	0.1	.	0.1	.	.	1.3	.
Quillback carpsucker	.	.	.	.	.	0.4	.
Smallmouth buffalo	0.7	.	0.2	0.1	0.4	1.8	.
Bigmouth buffalo	0.1	.	.	.	.	0.5	.
Black buffalo	.	.	.	.	.	0.3	.
Spotted sucker	0.3	3.2	3.1	0.3	2.4	1.0	0.2
Shorthead redhorse	0.1	.	.	.	.	.	.
Black redhorse	0.5	0.1	.	.	.	.	.
Golden redhorse	0.2	0.1	.	.	.	.	.
Blue catfish	.	.	.	.	0.1	0.1	2.2
Yellow bullhead	.	.	.	.	0.3	.	.
Channel catfish	2.2	1.0	0.7	0.4	0.6	1.4	2.2
Flathead catfish	0.3	.	0.7	.	.	0.4	.
American eel	0.1	.	0.1	.	.	.	.
Blackstripe topminnow	.	0.1	.	.	.	.	.
Mosquitofish	.	0.6	.	.	.	.	.
White bass	36.1	0.1	0.5	0.4	0.5	0.6	.
Yellow bass	9.0	0.6	4.1	3.2	3.4	3.4	4.0
Striped bass	0.1	.	0.1	.	0.1	.	.
Striped x white bass	0.3	.	.	.	.	0.1	.
Warmouth	.	0.3	0.1	.	.	.	.
Green sunfish	.	0.1	0.1	.	.	.	.
Bluegill	11.6	11.7	13.7	7.1	0.4	0.2	.
Longear sunfish	4.3	16.1	7.9	0.5	0.1	0.1	.
Redear sunfish	2.6	2.0	1.3	0.5	2.8	0.6	.
Hybrid sunfish	.	0.1	.	.	.	.	.
Smallmouth bass	1.8	0.6	1.6	.	.	.	.
Spotted bass	0.4	0.1	0.1	0.3	0.8	0.2	.
Largemouth bass	7.9	3.2	5.1	0.9	0.4	0.3	0.1
White crappie	0.3	0.6	0.1	0.1	0.1	0.3	1.0
Black crappie	0.3	0.4	1.0	.	.	0.3	.
Yellow perch	.	0.3	0.2	2.3	0.2	.	.
Logperch	1.4	1.3	0.1	0.1	.	.	.
Sauger	0.4	0.3	.	0.1	3.7	0.8	0.1
Hybrid walleye x sauger	.	.	.	.	0.1	.	.
Freshwater drum	0.7	1.1	1.5	2.8	0.6	0.5	3.4
Striped mullet	0.1	.	.	.	0.1	.	.
Brook silverside	0.1	.	0.3	.	.	.	.
Inland silverside	.	0.8	0.1	.	.	.	.
Total	733.9	2239.1	836.0	194.7	34.8	62.0	21.3
Number of samples	15	15	15	15	10	10	10
Number collected	11009	33587	12540	2920	348	620	213
Species collected	35	35	32	20	26	27	12

Table 16. Species listing and catch per unit effort at the transition during fall electrofishing and gill netting on Little Bear Creek, 1994 (electrofishing effort = 300 meters of shoreline and gill netting effort = net-nights).

Comman name	Electrofishing Forebay	Gill Netting Forebay
Gizzard shad	0.1	5.2
Central stoneroller	0.1	.
Common carp	0.1	0.6
Rosefin shiner	0.2	.
Whitetail shiner	4.0	.
Striped shiner	8.7	.
Bluntnose minnow	8.1	.
Northern hogsucker	0.1	.
Spotted sucker	0.3	3.7
Black redhorse	0.1	0.1
Golden redhorse	0.1	0.6
Channel catfish	0.3	1.9
Flathead catfish	0.4	0.2
White bass	.	0.3
Green sunfish	2.8	.
Bluegill	85.7	0.2
Longear sunfish	8.9	.
Redear sunfish	2.3	0.2
Smallmouth bass	1.6	0.7
Spotted bass	0.7	0.4
Largemouth bass	1.7	2.1
White crappie	.	0.1
Logperch	3.5	.
Total	129.9	16.3
Number of samples	15	10
Number collected	1948	163
Species collected	21	14

Table 17. Species listing and catch per unit effort at the transition during fall electrofishing and gill netting on Melton Hill, 1994 (electrofishing effort = 300 meters of shoreline and gill netting effort = net-nights).

Comman name	Electrofishing Inflow	Electrofishing Transition	Electrofishing Forebay	Gill Netting Transition	Gill Netting Forebay
Longnose gar	.	.	.	0.1	.
Skipjack herring	.	.	.	0.2	5.0
Gizzard shad	5.8	18.9	9356.0	1.9	1.4
Threadfin shad	.	.	9650.9	.	.
Common carp	0.9	1.5	0.9	0.1	0.9
Spotfin shiner	.	1.5	15.4	.	.
Bluntnose minnow	0.2	0.2	.	.	.
Grass carp	.	0.1	.	.	.
River carpsucker	0.8	0.1	.	.	.
Quillback carpsucker	0.1	0.2	.	1.6	0.9
Northern hogsucker	.	0.2	.	.	.
Smallmouth buffalo	0.3	1.1	0.5	0.1	0.4
Black buffalo	.	.	.	.	0.1
Spotted sucker	.	0.1	.	.	.
Silver redhorse	.	.	.	0.6	0.4
Golden redhorse	0.3	0.3	.	.	.
Channel catfish	.	0.1	.	1.5	0.9
Flathead catfish	.	.	.	0.2	0.1
White bass	0.1	.	0.1	0.4	5.1
Yellow bass	.	.	0.1	1.6	3.6
Striped bass	.	.	.	.	0.5
Striped x white bass	.	.	.	.	1.9
Rock bass	.	.	.	.	0.2
Warmouth	.	0.1	0.1	.	.
Redbreast sunfish	0.1	0.3	.	.	.
Green sunfish	.	0.1	0.5	.	.
Bluegill	1.1	6.1	9.0	0.1	0.6
Redear sunfish	0.4	0.3	0.5	0.1	.
Smallmouth bass	.	0.4	1.2	.	0.4
Spotted bass	.	0.1	.	0.1	.
Largemouth bass	0.3	4.6	3.9	0.1	.
White crappie	.	0.1	.	.	.
Yellow perch	0.9	0.6	0.1	.	.
Logperch	0.5	0.7	0.2	.	.
Freshwater drum	.	0.1	0.1	.	0.2
Brook silverside	0.1	11.2	61.6	.	.
Total	11.7	48.7	19101	8.7	22.6
Number of samples	15	15	15	10	10
Number collected	175	730	286514	87	226
Species collected	15	25	17	15	17

Table 18. Species listing and catch per unit effort at the transition during fall electrofishing and gill netting on Nickajack, 1994 (electrofishing effort = 300 meters of shoreline and gill netting effort = net-nights).

Comman name	Electrofishing Inflow	Electrofishing Forebay	Gill Netting Forebay
Chestnut lamprey	0.2	0.2	.
Spotted gar	.	0.4	0.1
Longnose gar	0.6	.	.
Skipjack herring	0.2	0.3	1.5
Gizzard shad	10.2	5.7	3.1
Threadfin shad	0.1	5.1	0.1
Mooneye	.	.	0.2
Common carp	1.3	1.1	.
Golden shiner	.	0.2	0.1
Emerald shiner	2.1	18.9	.
Steelcolor shiner	0.1	.	.
Smallmouth buffalo	0.1	0.1	0.3
Bigmouth buffalo	0.1	0.1	.
Spotted sucker	0.4	0.4	0.5
Black redhorse	0.1	.	.
Golden redhorse	0.2	.	.
Blue catfish	0.3	.	0.5
Channel catfish	7.4	0.1	0.7
Flathead catfish	0.1	0.7	0.3
White bass	0.5	0.1	0.1
Yellow bass	12.0	0.1	3.3
Striped bass	.	0.1	.
Rock bass	0.6	.	.
Warmouth	0.1	0.2	.
Redbreast sunfish	0.6	5.6	.
Green sunfish	.	0.1	.
Bluegill	11.9	18.9	0.2
Longear sunfish	0.2	0.6	.
Redear sunfish	4.2	1.3	0.2
Smallmouth bass	3.7	.	.
Spotted bass	6.5	2.8	0.3
Largemouth bass	1.8	3.3	.
White crappie	.	.	0.1
Black crappie	0.3	.	.
Yellow perch	0.1	.	.
Logperch	6.7	0.8	.
Dusky darter	0.1	.	.
Sauger	0.1	.	.
Freshwater drum	1.2	0.1	0.3
Brook silverside	.	0.1	.
Total	74.1	67.3	11.9
Number of samples	15	15	10
Number collected	1111	1010	119
Species collected	33	27	18

Table 19. Species listing and catch per unit effort at the transition during fall electrofishing and gill netting on Normandy, 1994 (electrofishing effort = 300 meters of shoreline and gill netting effort = net-nights).

Comman name	Electrofishing Forebay	Gill Netting Forebay
Longnose gar	.	0.1
Gizzard shad	1.5	5.3
Common carp	1.1	2.0
Spotfin shiner	3.7	.
Striped shiner	0.2	.
Spotted sucker	0.4	1.0
Silver redhorse	0.1	0.7
River redhorse	.	0.1
Black redhorse	.	0.2
Channel catfish	0.1	0.8
Flathead catfish	0.1	0.3
White bass	.	4.0
Rock bass	0.1	0.1
Green sunfish	6.0	.
Bluegill	14.1	0.5
Longear sunfish	8.3	.
Smallmouth bass	3.5	0.1
Spotted bass	0.7	1.1
Largemouth bass	1.7	0.5
Black crappie	.	0.8
Logperch	0.3	.
Walleye	.	1.6
Hybrid walleye x sauger	0.1	0.4
Total	41.8	19.6
Number of samples	15	10
Number collected	627	196
Species collected	17	18

Table 20. Species listing and catch per unit effort at the transition during fall electrofishing and gill netting on Norris, 1994 (electrofishing effort = 300 meters of shoreline and gill netting effort = net-nights).

Comman name	Electrofishing Transition Clinch	Electrofishing Transition Powell	Electrofishing Forebay	Gill Netting Transition Clinch	Gill Netting Transition Powell	Gill Netting Forebay
Longnose gar	0.1	0.1	.	0.2	0.3	.
Gizzard shad	3.0	0.7	0.6	2.7	3.9	2.6
Common carp	0.1	0.3	0.1	1.2	0.7	0.4
Popeye shiner	.	0.1	.	.	.	.
Spotfin shiner	3.2	4.1	1.5	.	.	.
Steelcolor shiner	0.6	.	.	.	.	.
Bluntnose minnow	.	0.1	.	.	.	.
River carpsucker	.	.	.	.	0.1	.
Quillback carpsucker	.	.	.	2.7	0.6	.
Northern hogsucker	0.1	0.1	.	.	.	.
Silver redhorse	.	.	.	.	1.2	.
Shorthead redhorse	0.1	0.2	.	0.1	0.1	0.2
River redhorse	0.1	0.1	0.1	.	.	.
Black redhorse	1.1	1.9	.	.	0.5	.
Golden redhorse	0.3	0.2	0.1	0.5	2.0	0.1
Channel catfish	.	0.1	.	1.0	0.3	.
Flathead catfish	0.2	0.1	.	.	0.5	.
White bass	.	.	.	1.2	0.2	0.1
Striped bass	0.1	.	.	0.2	0.4	0.3
Rock bass	0.1	.	0.5	.	.	0.8
Bluegill	12.1	10.9	29.4	0.1	.	.
Longear sunfish	0.3	.	.	.	.	.
Smallmouth bass	4.7	1.7	1.5	0.1	0.1	0.7
Spotted bass	1.1	1.5	1.5	0.1	0.5	0.2
Largemouth bass	1.5	1.3	0.5	.	.	.
White crappie	.	.	.	0.2	0.5	.
Black crappie	0.2	0.3	.	0.3	1.3	.
Logperch	1.9	4.9	1.1	.	.	.
Sauger	.	.	.	0.1	0.2	.
Walleye	0.1	0.1	0.1	2.3	2.1	5.3
Freshwater drum	0.1	0.1	.	0.1	0.5	0.6
Brook silverside	0.5	1.0	0.1	.	.	.
Total	31.4	29.7	36.9	13.1	16.0	11.3
Number of samples	15	15	15	10	10	10
Number collected	471	446	554	131	160	113
Species collected	23	22	13	17	20	11

Table 21. Species listing and catch per unit effort at the transition during fall electrofishing and gill netting on Nottely, 1994 (electrofishing effort = 300 meters of shoreline and gill netting effort = net-nights).

Comman name	Electrofishing Transition	Electrofishing Forebay	Gill Netting Transition	Gill Netting Forebay
Gizzard shad	0.1	0.1	4.3	2.1
Hybrid shad	0.3	.	3.1	.
Goldfish	.	0.2	.	.
Common carp	2.1	1.6	2.6	1.8
Northern hogsucker	0.2	0.1	.	.
White catfish	.	.	0.4	0.1
Yellow bullhead	.	.	.	0.2
Brown bullhead	0.1	0.1	0.3	.
Channel catfish	0.1	0.3	0.8	0.9
Snail bullhead	.	.	.	0.2
Flathead catfish	0.1	0.2	0.8	0.4
White bass	.	0.1	2.5	3.2
Striped bass	.	.	0.4	3.0
Striped x white bass	.	.	.	0.3
Warmouth	2.3	.	0.2	.
Redbreast sunfish	0.8	0.1	.	.
Green sunfish	6.9	0.7	.	.
Bluegill	45.1	27.7	.	.
Hybrid sunfish	0.5	0.1	.	.
Smallmouth bass	1.2	0.3	.	2.8
Spotted bass	15.9	3.9	1.2	3.3
Largemouth bass	1.1	0.7	0.4	0.3
Black crappie	3.1	0.9	5.9	0.3
Yellow perch	0.5	0.3	.	.
Walleye	.	.	1.5	0.7
Total	80.4	37.3	24.4	19.6
Number of samples	15	15	10	10
Number collected	1206	559	244	196
Species collected	17	17	14	15

Table 22. Species listing and catch per unit effort at the transition during fall electrofishing and gill netting on Parksville - ocoee no 1, 1994 (electrofishing effort = 300 meters of shoreline and gill netting effort = net-nights).

Comman name	Electrofishing Forebay	Gill Netting Forebay
Gizzard shad	0.4	.
Hybrid shad	0.3	.
Rainbow trout	0.1	.
Common carp	0.1	.
Northern hogsucker	0.1	.
Channel catfish	.	1.0
Flathead catfish	.	0.1
Warmouth	0.3	.
Green sunfish	0.3	.
Bluegill	20.6	.
Longear sunfish	0.3	.
Redear sunfish	0.3	.
Largemouth bass	3.5	2.2
White crappie	.	0.1
Black crappie	.	0.1
Yellow perch	1.3	1.7
Sauger	.	0.1
Brook silverside	78.5	.
Total	106.0	5.3
Number of samples	15	10
Number collected	1590	53
Species collected	13	7

Table 23. Species listing and catch per unit effort at the transition during fall electrofishing and gill netting on Pickwick, 1994 (electrofishing effort = 300 meters of shoreline and gill netting effort = net-nights).

Comman name	Electrofishing Inflow	Electrofishing Transition	Electrofishing Forebay	Electrofishing Embayment	Gill Netting Transition	Gill Netting Forebay	Gill Netting Embayment
Chestnut lamprey	0.1	0.1	0.4	0.2	.	.	.
Spotted gar	.	0.1	0.1	0.1	0.1	.	0.1
Longnose gar	0.1	.	0.1	0.1	.	.	.
Skipjack herring	3.2	0.1	0.1	0.5	0.3	1.5	0.8
Gizzard shad	30.5	11.4	32.6	60.4	5.6	9.8	17.4
Threadfin shad	53.8	20.9	9.5	76.1	3.1	0.1	7.2
Hybrid shad	0.1	.	0.1	.	.	9.7	.
Mooneye	0.1	.	.	.	.	.	.
Common carp	5.6	0.9	2.1	1.5	0.1	0.1	0.3
Golden shiner	0.1	1.7	.	.	.	0.2	.
Emerald shiner	.	3.2	6.7	.	.	.	.
Spotfin shiner	0.9	1.7	2.1	0.3	.	.	.
Mimic shiner	.	4.9	.	.	.	.	.
Pugnose minnow	.	3.1	.	0.4	.	.	.
Bullhead minnow	.	0.1	.	.	.	.	.
River carpsucker	.	.	.	.	0.1	.	.
Quillback carpsucker	.	.	.	.	.	.	0.5
Blue sucker	0.1	.	.	.	.	.	.
Northern hogsucker	0.3	.	.	0.1	.	.	.
Smallmouth buffalo	2.3	0.1	0.1	0.7	0.1	.	0.2
Bigmouth buffalo	.	.	0.1	.	.	.	.
Black buffalo	.	.	.	.	.	0.2	.
Spotted sucker	0.1	3.7	2.6	1.8	0.7	0.6	2.9
Silver redhorse	.	.	.	.	.	.	0.2
Shorthead redhorse	0.7	0.1	.	0.2	0.1	.	.
River redhorse	0.3	0.1	.	0.1	0.3	.	0.1
Black redhorse	1.2	0.3	.	0.2	0.2	.	.
Golden redhorse	0.2	.	.	2.4	.	.	0.5
Blue catfish	1.4	0.1	.	.	0.5	0.1	1.2
Black bullhead	.	.	.	.	.	.	0.1
Channel catfish	5.4	1.0	0.9	0.5	0.9	1.4	0.6
Flathead catfish	0.1	.	0.1	.	0.2	0.3	0.3
Blackspotted topminnow	.	.	0.3	.	.	.	.
White bass	2.2	.	.	0.2	.	0.3	0.1
Yellow bass	2.5	0.1	0.1	1.2	0.7	3.1	5.7
Striped x white bass	0.2	.	.	.	.	.	.
Rock bass	0.3	.	.	.	.	.	.
Warmouth	.	0.1	.	.	.	0.1	0.1
Green sunfish	.	.	1.0	.	.	.	.
Bluegill	16.9	9.5	16.0	10.5	0.2	0.3	0.4
Longear sunfish	3.0	23.7	23.0	11.2	.	0.1	.
Redear sunfish	1.7	3.7	2.2	1.6	0.5	0.3	.
Hybrid sunfish	0.1	.	.	.	.	.	.
Smallmouth bass	3.0	1.3	4.0	1.3	0.3	0.1	.
Spotted bass	0.6	0.3	0.4	0.1	0.2	0.1	0.1
Largemouth bass	1.7	2.1	2.9	4.2	0.1	0.1	0.2
White crappie	0.1	0.1	0.2	.	0.1	.	.
Black crappie	0.1	0.1	.	.	.	.	.
Yellow perch	.	0.1	.	.	.	.	.
Logperch	0.1	1.3	0.5	1.1	.	.	.
Sauger	0.1	0.1	0.1	0.1	1.0	0.4	1.6
Freshwater drum	5.7	.	1.2	0.5	0.6	0.5	1.2
Striped mullet	.	0.1	.	.	.	.	.
Brook silverside	0.2	0.9	0.7	1.5	.	.	.
Inland silverside	.	0.1	0.5	0.3	.	.	.
Total	144.9	97.1	110.7	179.3	16.0	29.4	41.8
Number of samples	15	15	15	15	10	10	10
Number collected	2173	1456	1660	2690	160	294	418
Species collected	38	35	30	30	23	22	23

Table 24. Species listing and catch per unit effort at the transition during fall electrofishing and gill netting on South Holston, 1994 (electrofishing effort = 300 meters of shoreline and gill netting effort = net-nights).

Comman name	Electrofishing Transition	Electrofishing Forebay	Gill Netting Transition	Gill Netting Forebay
Gizzard shad	8.1	3.5	5.6	4.3
Threadfin shad	.	0.1	.	.
Goldfish	.	.	.	0.2
Common carp	1.7	1.1	2.9	1.2
Spotfin shiner	20.5	78.5	.	.
Bluntnose minnow	0.1	4.1	.	.
River carpsucker	.	.	0.6	.
Quillback carpsucker	.	.	3.3	0.3
Northern hogsucker	0.1	0.1	.	.
Silver redhorse	.	0.1	.	.
Shorthead redhorse	.	.	0.3	.
River redhorse	0.1	.	0.2	.
Black redhorse	0.4	.	.	.
Golden redhorse	.	0.1	0.2	.
Channel catfish	0.1	.	0.8	0.2
Flathead catfish	.	0.1	0.7	0.4
White bass	.	0.1	4.6	2.0
Rock bass	.	0.5	.	0.4
Warmouth	0.1	0.2	.	.
Bluegill	8.1	17.8	0.1	0.1
Smallmouth bass	1.3	4.7	1.1	0.5
Largemouth bass	1.1	1.0	0.7	0.1
White crappie	.	.	.	0.1
Black crappie	0.3	0.3	1.3	1.5
Logperch	1.1	.	.	.
Walleye	.	.	2.9	2.3
Total	43.0	112.1	25.3	13.6
Number of samples	15	15	10	10
Number collected	645	1682	253	136
Species collected	14	16	15	14

Table 25. Species listing and catch per unit effort at the transition during fall electrofishing and gill netting on Tellico, 1994 (electrofishing effort = 300 meters of shoreline and gill netting effort = net-nights).

Comman name	Electrofishing Transition	Electrofishing Forebay	Gill Netting Transition	Gill Netting Forebay
Skipjack herring	.	.	2.5	5.5
Alewife	.	.	0.1	0.6
Gizzard shad	2.5	2.9	4.0	3.1
Threadfin shad	.	0.1	.	.
Hybrid shad	0.1	0.2	0.4	1.0
Mooneye	.	.	.	0.1
Common carp	2.1	1.4	1.4	0.6
Spotfin shiner	5.6	22.3	.	.
Northern hogsucker	0.1	0.2	.	0.1
Smallmouth buffalo	0.8	0.7	1.2	0.7
Bigmouth buffalo	.	0.1	.	.
Black buffalo	0.5	0.1	0.2	0.3
Spotted sucker	0.4	0.1	0.1	.
Golden redhorse	.	.	0.2	.
Blue catfish	.	.	0.1	0.1
Channel catfish	0.1	0.1	1.5	1.1
Flathead catfish	.	0.3	.	0.1
White bass	.	0.1	1.9	3.8
Yellow bass	.	.	1.5	2.3
Striped bass	.	.	0.3	0.1
Striped x white bass	.	.	0.1	.
Warmouth	0.2	0.1	.	.
Redbreast sunfish	1.3	1.4	.	.
Green sunfish	0.1	0.3	.	.
Bluegill	12.8	26.3	.	0.4
Redear sunfish	0.1	.	.	.
Hybrid sunfish	0.1	.	.	.
Smallmouth bass	1.5	2.1	0.2	0.7
Spotted bass	0.8	0.1	.	.
Largemouth bass	0.6	2.6	0.6	0.1
White crappie	.	.	0.1	0.1
Black crappie	0.1	.	.	0.3
Yellow perch	0.1	0.3	.	0.4
Logperch	0.6	0.5	.	.
Sauger	.	.	.	0.2
Walleye	.	.	1.0	0.1
Freshwater drum	0.1	0.2	0.4	0.4
Brook silverside	9.2	10.0	.	.
Total	39.8	72.4	17.8	22.2
Number of samples	15	15	10	10
Number collected	597	1086	178	222
Species collected	23	24	20	24

Table 26. Species listing and catch per unit effort at the transition during fall electrofishing and gill netting on Tims Ford, 1994 (electrofishing effort = 300 meters of shoreline and gill netting effort = net-nights).

Comman name	Electrofishing Transition	Electrofishing Forebay	Gill Netting Transition	Gill Netting Forebay
Longnose gar	.	0.1	.	0.4
Gizzard shad	3.3	0.5	2.0	1.4
Common carp	4.0	1.2	0.3	0.5
Spotfin shiner	12.1	9.1	.	.
River carpsucker	.	.	.	0.1
Quillback carpsucker	.	.	2.6	0.5
Smallmouth buffalo	0.3	.	1.6	0.6
Spotted sucker	0.2	.	.	.
Silver redhorse	.	.	0.1	.
Black redhorse	0.1	0.1	.	0.4
Golden redhorse	0.4	.	0.1	.
Channel catfish	0.4	0.1	0.7	0.6
Flathead catfish	0.3	1.2	0.2	0.2
White bass	0.1	0.1	1.4	0.6
Yellow bass	.	.	4.1	2.3
Striped bass	.	.	0.9	1.5
Rock bass	.	0.1	.	.
Warmouth	.	0.1	.	.
Green sunfish	6.7	5.4	.	.
Bluegill	28.5	77.5	0.3	0.1
Longear sunfish	.	0.4	.	.
Smallmouth bass	3.2	5.3	0.2	0.7
Spotted bass	.	0.1	.	.
Largemouth bass	0.9	0.3	0.4	.
Black crappie	0.1	.	.	.
Logperch	0.7	2.9	.	.
Walleye	0.1	.	2.1	2.2
Freshwater drum	0.1	.	0.1	.
Brook silverside	1.5	.	.	.
Total	63.1	104.4	17.1	12.1
Number of samples	15	15	10	10
Number collected	946	1566	171	121
Species collected	19	17	16	15

Table 27. Species listing and catch per unit effort at the transition during fall electrofishing and gill netting on Watauga, 1994 (electrofishing effort = 300 meters of shoreline and gill netting effort = net-nights).

Comman name	Electrofishing Transition	Electrofishing Forebay	Gill Netting Transition	Gill Netting Forebay
Gizzard shad	1.7	0.3	1.0	2.0
Common carp	0.5	0.4	0.8	0.5
Silver shiner	.	0.3	.	.
Spotfin shiner	3.5	2.2	.	.
Bluntnose minnow	0.5	0.6	.	.
Northern hogsucker	.	0.1	.	.
Shorthead redhorse	.	0.1	.	.
Black redhorse	0.1	0.1	.	.
Golden redhorse	0.1	.	.	.
Yellow bullhead	0.1	.	.	.
Channel catfish	.	.	.	0.2
Flathead catfish	.	0.1	0.5	0.4
Rock bass	0.3	5.7	0.4	0.5
Bluegill	28.2	25.9	.	.
Smallmouth bass	2.6	2.5	2.5	0.4
Spotted bass	0.5	.	0.4	.
Largemouth bass	2.0	0.7	0.1	.
Walleye	.	0.7	9.1	1.4
Total	40.1	39.7	14.8	5.4
Number of samples	15	15	10	10
Number collected	602	596	148	54
Species collected	12	14	8	7

Table 28. Species listing and catch per unit effort at the transition during fall electrofishing and gill netting on Watts Bar, 1994 (electrofishing effort = 300 meters of shoreline and gill netting effort = net-nights).

Comman name	Electrofishing Inflow Clinch	Electrofishing Inflow Tennessee	Electrofishing Transition	Electrofishing Forebay	Gill Netting Transition	Gill Netting Forebay
Longnose gar	.	0.6	.	.	.	.
Skipjack herring	12.1	0.7	1.1	0.1	5.5	6.5
Gizzard shad	27.1	12.5	8.3	5.5	0.7	1.5
Threadfin shad	32.9	264.0	27.9	1.0	.	.
Hybrid shad	.	.	.	.	.	0.3
Mooneye	.	0.1	.	.	.	.
Common carp	1.5	2.1	2.1	1.9	0.2	.
Golden shiner	.	.	0.1	0.9	.	.
Emerald shiner	1.2	1.1	42.6	109.2	.	.
Spotfin shiner	.	1.3	13.9	3.8	.	.
Steelcolor shiner	.	0.5	4.3	2.3	.	.
Striped shiner	0.5	.	.	.	.	.
Bluntnose minnow	0.5	.	4.6	0.1	.	.
Quillback carpsucker	.	.	.	.	0.1	.
Northern hogsucker	0.3	1.1	.	0.5	.	.
Smallmouth buffalo	0.1	0.7	0.1	0.1	0.1	.
Spotted sucker	0.4	1.0	1.3	0.1	.	.
Shorthead redhorse	.	0.1	.	.	.	.
Black redhorse	2.3	0.9	.	.	.	.
Golden redhorse	1.7	0.7	.	.	.	.
Blue catfish	.	0.1	.	.	1.4	0.4
Channel catfish	0.1	0.9	0.2	0.1	0.6	0.3
Flathead catfish	.	.	.	0.2	0.7	0.7
White bass	3.3	2.9	0.2	0.2	0.8	1.1
Yellow bass	1.4	0.8	.	.	2.4	0.8
Striped bass	0.1	0.1	.	0.1	0.3	0.1
Striped x white bass	.	0.1	.	.	.	0.4
Rock bass	0.1	.	.	.	.	.
Warmouth	0.1	.	0.1	.	.	.
Redbreast sunfish	0.1	0.1	0.1	0.5	.	.
Green sunfish	.	0.2	0.3	0.3	.	.
Bluegill	4.3	6.9	30.5	28.7	0.2	0.3
Longear sunfish	.	.	0.1	.	.	.
Redear sunfish	0.7	0.1	4.1	3.1	.	0.2
Smallmouth bass	0.1	0.5	4.3	1.8	.	0.3
Spotted bass	0.5	1.5	.	0.5	.	0.3
Largemouth bass	1.9	3.7	4.7	3.0	0.1	0.1
White crappie	.	0.8	0.5	.	0.4	.
Black crappie	.	0.2	0.2	0.1	.	.
Yellow perch	0.9	0.9	0.2	0.3	.	.
Logperch	0.4	11.2	2.1	0.2	.	.
Sauger	.	0.1	.	.	3.5	0.6
Freshwater drum	0.3	0.3	0.6	0.3	0.5	0.1
Banded sculpin	0.2	.	.	.	.	.
Brook silverside	0.5	.	0.2	0.4	.	.
Total	95.5	318.5	154.8	165.2	17.5	14.0
Number of samples	15	15	15	15	10	10
Number collected	1432	4777	2322	2478	175	140
Species collected	29	34	27	28	16	17

Table 29. Species listing and catch per unit effort at the transition during fall electrofishing and gill netting on Wheeler, 1994 (electrofishing effort = 300 meters of shoreline and gill netting effort = net-nights).

Comman name	Electrofishing Inflow	Electrofishing Transition	Electrofishing Forebay	Gill Netting Transition	Gill Netting Forebay
Chestnut lamprey	0.2	0.1	.	.	.
Spotted gar	0.5	0.1	0.1	.	.
Longnose gar	1.3	.	.	.	.
Bowfin	0.1	.	.	.	.
Skipjack herring	6.3	8.8	1.3	0.3	6.1
Gizzard shad	15.9	13.4	41.0	2.4	3.3
Threadfin shad	2.1	26.7	.	.	1.5
Common carp	1.4	0.3	0.1	.	.
Golden shiner	.	0.1	.	0.1	.
Emerald shiner	4.9	5.8	0.6	.	.
Ghost shiner	.	0.1	.	.	.
Steelcolor shiner	.	.	0.1	.	.
River carpsucker	0.1	.	.	.	.
Quillback carpsucker	0.1	.	.	.	.
Northern hogsucker	.	0.1	.	.	.
Smallmouth buffalo	1.4	0.1	0.1	0.3	.
Bigmouth buffalo	0.1	0.1	.	.	.
Black buffalo	.	.	.	0.2	.
Spotted sucker	0.2	0.6	2.1	0.1	0.6
Silver redhorse	0.1	.	.	.	.
Shorthead redhorse	0.1	.	.	.	.
Black redhorse	0.4	0.1	0.1	0.1	0.1
Golden redhorse	1.4	.	0.1	.	.
Blue catfish	0.8	0.3	.	.	0.1
Channel catfish	2.3	0.7	0.5	0.8	0.7
Flathead catfish	.	0.1	.	0.3	0.5
White bass	0.8	0.3	.	0.1	.
Yellow bass	22.1	2.0	.	1.0	0.7
Striped x white bass	.	.	0.1	0.2	0.3
Warmouth	.	1.3	.	.	0.3
Green sunfish	0.1	1.1	.	.	.
Bluegill	13.3	25.0	28.5	0.6	0.1
Longear sunfish	0.8	2.5	1.5	.	.
Redear sunfish	1.7	4.2	3.1	0.4	0.4
Hybrid sunfish	.	.	0.1	.	.
Smallmouth bass	0.3	0.8	1.5	.	0.2
Spotted bass	5.3	0.3	0.1	0.1	0.2
Largemouth bass	2.1	2.5	3.0	0.1	0.1
White crappie	0.1	0.1	.	.	0.1
Black crappie	0.5	.	.	.	.
Logperch	1.5	.	0.3	.	.
Sauger	0.1	0.3	.	0.9	0.8
Freshwater drum	0.9	1.7	1.7	0.3	0.7
Brook silverside	.	0.5	.	.	.
Inland silverside	.	0.1	.	.	.
Total	89.3	100.2	85.7	8.3	16.8
Number of samples	15	15	15	10	10
Number collected	1340	1503	1286	83	168
Species collected	34	32	21	18	19

Table 30. Species listing and catch per unit effort at the transition during fall electrofishing and gill netting on Wilson, 1994 (electrofishing effort = 300 meters of shoreline and gill netting effort = net-nights).

Comman name	Electrofishing Inflow	Electrofishing Forebay	Gill Netting Forebay
Chestnut lamprey	0.1	0.1	0.1
Spotted gar	0.1	0.1	0.1
Longnose gar	0.1	.	.
Bowfin	0.1	.	.
Skipjack herring	0.1	0.1	1.4
Gizzard shad	36.5	31.3	1.9
Threadfin shad	.	.	0.5
Hybrid shad	.	.	0.1
Common carp	0.3	.	.
Golden shiner	0.1	0.1	.
Emerald shiner	4.4	0.1	.
Spotfin shiner	0.6	.	.
Smallmouth buffalo	.	0.1	.
Bigmouth buffalo	0.3	0.1	.
Spotted sucker	1.5	0.6	0.2
Black redhorse	1.1	0.1	.
Golden redhorse	1.0	.	.
Blue catfish	0.1	.	1.8
Channel catfish	4.1	0.7	0.1
Flathead catfish	0.3	0.2	0.3
White bass	0.3	0.8	.
Yellow bass	.	.	0.4
Striped bass	0.1	.	.
Warmouth	0.1	.	.
Green sunfish	0.1	0.5	.
Bluegill	26.9	24.5	0.2
Longear sunfish	1.4	2.9	.
Redear sunfish	2.5	1.5	0.5
Smallmouth bass	3.3	3.3	0.3
Spotted bass	0.1	.	1.0
Largemouth bass	5.9	3.5	0.5
White crappie	0.1	.	0.1
Black crappie	0.1	.	.
Logperch	.	0.5	.
Sauger	.	0.1	1.1
Freshwater drum	1.4	0.6	0.7
Brook silverside	.	8.1	.
Inland silverside	0.1	0.1	.
Total	93.1	79.9	11.3
Number of samples	15	15	10
Number collected	1396	1198	113
Species collected	31	24	19