

TENNESSEE VALLEY AUTHORITY

Office of Natural Resources
Division of Air and Water Resources

AQUATIC ENVIRONMENTAL CONDITIONS
IN CHICKAMAUGA RESERVOIR DURING OPERATION
OF SEQUOYAH NUCLEAR PLANT, SECOND ANNUAL REPORT
(1982)

TVA/ONR/WRF--83/12(b)

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Knoxville, Tennessee
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APPENDIX A

SEQUOYAH NUCLEAR PLANT
CONDENSER COOLING WATER INTAKE AND DIFFUSER
WATER QUALITY DATA COLLECTED FROM
JULY 1979 THROUGH DECEMBER 1982

Appendix A. Sequoyah Nuclear Plant Condenser Cooling Water Intake and Diffuser Water
Quality Data Collected From July 1979 Through December 1982

SEQUOYAH INTAKE							9:59 TUESDAY, MAY 10, 1983
OBS	DATE	CHLORIDE	SODIUM	SULFATE	TSS	SETTLED	TDS
1	7907	< 0.2000	4.6000	15	5	< 1	96
2	7908	4.3000	5.3000	8	7	< 1	6
3	7909	3.6000	5.2000	6	11	< 1	3
4	7910	1.8000	0.4000	4	14	< 1	103
5	7911	2.0000	3.1000	13	3	< 1	120
6	7912	2.3000	8.1000	30	5	< 1	65
7	8001	3.0000	0.4000	10	416	< 1	42
8	8002	1.7000	7.2000	13	3	< 1	116
9	8003	0.6000	1.9000	12	3	< 1	45
10	8004	< 0.2000	6.3000	8	15	< 1	72
11	8005	3.0000	9.3000	8	4	< 1	96
12	8006	4.0000	0.5000	9	9	< 1	130
13	8009	3.8000	0.5000	7	5	< 1	47
14	8010	4.3000	0.4000	7	< 1	< 1	< 1
15	8011	9.8000	0.3000	< 1	2	< 1	92
16	8101	20.0000	14.0000	2	< 1	< 1	130
17	8103	2.0000	0.5000	22	3	< 1	141
18	8104	2.0000	0.4000	15	7	< 1	118
19	8106	1.2000	0.5000	15	3	< 1	< 1
20	8107	3.1000	1.9000	5	5	< 1	84
21	8107	0.6000	15.0000	12	2	< 1	120
22	8109	7.0000	9.3000	20	2	< 1	120
23	8109	5.0000	3.8000	8	9	< 1	92
24	8110	16.0000	10.0000	20	< 1	< 1	110
25	8112	4.8000	1.7000	17	< 1	< 1	9
26	8112	4.6000	9.9000	9	4	< 1	92
OBS	TSOLIDS	NH3	CU	FE	MN	ZN	
1	96	< 0.20000	< 0.050000	< 0.10000	2.50000	< 0.100000	
2	6	< 0.20000	< 0.050000	0.12000	< 0.10000	< 0.100000	
3	11	< 0.20000	< 0.050000	0.25000	< 0.10000	< 0.100000	
4	117	< 0.20000	0.060000	0.30000	< 0.10000	< 0.100000	
5	130	< 0.20000	< 0.050000	0.20000	< 0.10000	< 0.100000	
6	69	0.50000	< 0.050000	0.30000	< 0.10000	< 0.100000	
7	458	< 0.20000	< 0.050000	1.00000	0.90000	0.250000	
8	119	0.29000	< 0.050000	< 0.10000	< 0.10000	< 0.100000	
9	57	< 0.20000	< 0.050000	0.20000	< 0.10000	< 0.100000	
10	87	< 0.20000	0.070000	1.10000	< 0.10000	< 0.100000	
11	110	1.20000	< 0.050000	< 0.10000	< 0.10000	< 0.100000	
12	110	< 0.20000	< 0.050000	0.12000	0.53000	< 0.100000	
13	110	0.85000	0.100000	< 0.10000	< 0.10000	< 0.100000	
14	1	< 0.20000	< 0.050000	0.21000	< 0.10000	< 0.100000	
15	100	< 0.20000	< 0.050000	0.13000	< 0.10000	< 0.100000	
16	145	0.55000	< 0.050000	0.40000	< 0.10000	< 0.100000	
17	141	0.33000	< 0.050000	< 0.10000	< 0.10000	< 0.100000	
18	125	0.40000	< 0.050000	< 0.10000	< 0.10000	< 0.100000	
19	3	< 0.20000	< 0.050000	< 0.10000	0.10000	0.420000	
20	88	< 0.20000	< 0.050000	0.80000	< 0.10000	< 0.100000	
21	120	< 0.20000	< 0.050000	.	< 0.10000	.	
22	120	< 0.20000	< 0.050000	0.12000	< 0.10000	< 0.100000	
23	110	< 0.20000	< 0.050000	0.11000	< 0.10000	< 0.100000	
24	120	< 0.20000	< 0.050000	< 0.10000	< 0.10000	< 0.100000	
25	9	0.48000	0.200000	0.10000	< 0.10000	< 0.100000	
26	120	0.22000	< 0.050000	0.14000	< 0.10000	< 0.100000	

SEQUOYAH INTAKE

9:59 TUESDAY, MAY 10, 1983

OBS	DATE	CHLORIDE	SODIUM	SULFATE	TSS	SETTLED	TDS
27	8202	30.0000	7.10000	10	12	<1	72
28	8203	16.0000	6.60000	10	1	<1	46
29	8203	3.9000	0.70000	15	28	<1	22
30	8204	9.2000	2.70000	15	4	<1	5
31	8206	3.0000	0.60000	15	4	<1	2
32	8206	1.0000	0.30000	13	10	<1	82
33	8207	1.2000	3.00000	16	9	<1	7
34	8209	60.0000	7.40000	15	3	<1	110
35	8209	24.0000	0.30000	12	4	<1	39
36	8210	4.7000	8.50000	17	3	<1	140
37	8211	5.1000	0.40000	12	6	<1	260
38	8212	1.1000	0.30000	15	3	<1	120

OBS	TSOLIDS	NH3	CU	FE	MN	ZN
27	84	0.52000	<0.050000	0.50000	<0.100000	<0.100000
28	47	1.60000	<0.050000	0.12000	<0.100000	<0.100000
29	50	0.27000	0.200000	0.16000	<0.100000	<0.100000
30	10	0.32000	<0.050000	<0.10000	<0.100000	<0.100000
31	6	.	0.200000	0.28000	<0.100000	<0.100000
32	92	0.35000	0.050000	0.26000	<0.100000	<0.100000
33	39	0.22000	0.200000	0.30000	<0.100000	<0.100000
34	110	0.80000	0.200000	0.32000	<0.100000	<0.100000
35	100	<0.20000	0.050000	0.25000	<0.100000	<0.100000
36	150	0.34000	<0.050000	0.30000	<0.100000	<0.100000
37	270	0.46000	0.100000	2.80000	0.250000	.
38	120	<0.20000	0.080000	0.27000	<0.100000	<0.100000

SEQUOYAH DIFFUSER

9:59 TUESDAY, MAY 10, 1983

OBS	DATE	CHLORIDE	SODIUM	SULFATE	TSS	SETTLED	TDS
1	7907	< 0.2000	4.8000	22	13.0000	< 1	< 1.00
2	7908	4.1000	5.7000	10	11.0000	< 1	7.000
3	7909	2.3000	6.0000	9	10.0000	< 1	< 1.000
4	7910	1.8000	0.4000	3	3.0000	< 1	125.000
5	7911	2.4000	3.4000	12	5.0000	< 1	130.000
6	7912	2.6000	8.2000	22	2.0000	< 1	33.000
7	8001	2.8000	1.9000	12	3.0000	< 1	72.000
8	8002	1.0000	7.5000	14	3.0000	< 1	103.000
9	8003	0.7000	4.0000	20	9.0000	< 1	61.000
10	8004	< 0.2000	10.2000	11	4.0000	< 1	92.000
11	8005	3.5000	8.1000	29	11.0000	< 1	100.000
12	8006	3.0000	0.5000	12	10.0000	< 1	100.000
13	8007	5.0000	4.6000	2	5.0000	< 1	69.000
14	8009	4.6000	0.5000	4	6.0000	< 1	72.000
15	8010	3.2000	0.4000	4	< 1.0000	< 1	< 1.00
16	8011	11.0000	0.3000	< 1	< 1.0000	< 1	110.000
17	8012	2.9000	1.6000	15	6.0000	< 1	1.00
18	8012	4.6000	9.9000	9	4.0000	< 1	90.000
19	8101	20.0000	18.0000	10	11.0000	< 1	105.000
20	8103	2.2000	0.6000	32	6.0000	< 1	143.000
21	8104	2.1000	0.4000	27	22.0000	< 1	93.000
22	8106	1.8000	0.6000	15	5.0000	< 1	< 1.000
23	8107	3.5000	2.2000	4	3.0000	< 1	70.000
24	8107	0.6000	15.0000	10	2.0000	< 1	110.00
25	8109	6.3000	9.3000	13	5.0000	< 1	110.00
26	8109	4.2000	4.9000	10	3.0000	< 1	89.000

OBS	T SOLIDS	NH3	CU	FE	MN	ZN
1	10.000	< 0.20000	< 0.050000	< 0.10000	< 0.100000	< 0.100000
2	17.000	< 0.20000	< 0.050000	0.25000	< 0.100000	< 0.100000
3	11.000	< 0.20000	< 0.050000	0.25000	< 0.100000	< 0.100000
4	130.000	< 0.20000	< 0.050000	0.24000	< 0.100000	< 0.100000
5	130.000	< 0.20000	< 0.050000	0.30000	< 0.100000	< 0.100000
6	35.000	< 0.20000	< 0.050000	0.32000	< 0.100000	< 0.100000
7	75.000	< 0.20000	0.057000	1.60000	< 0.100000	0.140000
8	109.000	0.75000	< 0.050000	0.10000	< 0.100000	< 0.100000
9	65.000	0.26000	< 0.050000	0.23000	< 0.100000	< 0.100000
10	86.000	< 0.20000	< 0.050000	0.45000	< 0.100000	< 0.100000
11	110.000	1.20000	< 0.050000	< 0.10000	< 0.100000	< 0.100000
12	98.000	< 0.20000	< 0.050000	0.15000	0.630000	< 0.100000
13	80.000	0.30000	< 0.050000	0.22000	< 0.100000	< 0.100000
14	80.000	0.34000	< 0.050000	0.10000	< 0.100000	< 0.100000
15	< 1.000	0.25000	< 0.050000	0.11000	< 0.100000	< 0.100000
16	112.000	< 0.20000	0.060000	0.14000	< 0.100000	< 0.100000
17	7.000	0.95000	< 0.050000	< 0.10000	< 0.100000	< 0.100000
18	110.000	0.23000	< 0.050000	0.14000	< 0.100000	< 0.100000
19	120.000	0.89000	< 0.050000	0.50000	< 0.100000	< 0.100000
20	143.000	0.97000	< 0.050000	< 0.10000	< 0.100000	< 0.100000
21	115.000	0.99000	< 0.050000	< 0.10000	< 0.100000	< 0.100000
22	5.000	1.00000	0.100000	0.15000	< 0.100000	0.420000
23	73.000	< 0.20000	< 0.050000	0.10000	< 0.100000	< 0.100000
24	86.000	< 0.20000	< 0.050000	< 0.10000	< 0.100000	< 0.100000
25	130.000	< 0.20000	< 0.050000	0.12000	< 0.100000	< 0.100000
26	120.000	< 0.20000	< 0.050000	0.16000	< 0.100000	< 0.100000

SEQUOYAH DIFFUSER

9:59 TUESDAY, MAY 10, 1983

OBS	DATE	CHLORIDE	SODIUM	SULFATE	TSS	SETTLED	TDS
27	8110	12.0000	10.0000	13	4.00000	<1	160.000
28	8112	4.9000	1.7000	15	2.00000	<1	7.000
29	8112	5.5000	9.5000	11	4.00000	<1	2.100
30	8202	1.5000	7.3000	10	9.30000	<1	85.000
31	8203	5.0000	5.6000	14	3.30000	<1	75.000
32	8203	2.3000	0.7500	17	1.40000	<1	55.000
33	8204	8.5000	3.2000	15	1.00000	<1	7.300
34	8205	1.8000	0.4700	15	5.90000	<1	4.000
35	8206	4.5000	0.3300	13	9.20000	<1	69.000
36	8207	1.3000	2.9000	15	5.20000	<1	140.000
37	8208	60.0000	6.8000	14	3.60000	<1	62.000
38	8209	2.0000	2.6000	13	7.40000	<1	95.000
39	8210	4.5000	8.7000	16	2.50000	<1	130.000
40	8211	4.7000	0.4100	14	8.60000	<1	250.000
41	8212	1.1000	0.3200	10	3.20000	<1	110.000

OBS	TSOLIDS	NH3	CU	FE	MN	ZN
27	160.000	<0.200000	<0.050000	<0.10000	<0.100000	<0.100000
28	8.000	0.340000	<0.050000	0.10000	<0.100000	<0.100000
29	5.900	<0.200000	<0.050000	0.40000	<0.100000	0.110000
30	54.000	0.510000	<0.050000	0.50000	<0.100000	<0.100000
31	79.000	0.360000	<0.050000	0.31000	<0.100000	<0.100000
32	66.000	0.300000	0.200000	0.18000	<0.100000	<0.100000
33	8.500	0.270000	<0.050000	0.10000	<0.100000	<0.100000
34	5.900	0.750000	0.200000	0.43000	<0.100000	<0.100000
35	78.800	0.300000	0.060000	0.47000	<0.100000	<0.100000
36	140.000	0.220000	0.200000	0.30000	<0.100000	<0.100000
37	65.000	0.330000	0.200000	<0.10000	0.100000	<0.100000
38	100.000	<0.200000	0.150000	<0.10000	0.100000	<0.100000
39	142.000	0.330000	<0.050000	0.20000	<0.100000	<0.100000
40	260.000	0.540000	0.070000	3.10000	0.330000	.
41	110.000	<0.200000	<0.050000	0.29000	<0.100000	<0.100000

APPENDIX B

WATER QUALITY DATA COLLECTED
DURING OPERATIONAL MONITORING (1982),
SEQUOYAH NUCLEAR PLANT, CHICKAMAUGA RESERVOIR

TENNESSEE VALLEY AUTHORITY - DATA SERVICES BRANCH

STATION - 475303

CHICKAMAUGA RESERVOIR TENNESSEE RIVER #80.82

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00002 HSAMPLE % FROM RT BANK	00010 WATER TEMP CENT	00095 CONDUCTVY AT 25C MICROHMO	00098 VSAMPLE DEPTH METERS	00300 DO MG/L	00400 PH SU	00410 T ALK CACO3 MG/L	00415 PHEN-PH- LFIN ALK MG/L
820212	1130				74							
820224	0945			1	74	8.9	160	0.30	10.6	8.10	56.0	0
820224	0947			3	74	8.5	170	1.00	11.0	8.00	53.0	0
820224	0948			5	74	8.5	170	1.50	11.4	8.00		
820224	0950			10	74	8.3	170	3.00	11.6	8.00	53.0	0
820224	0952			16	74	8.3	170	5.00	11.6	8.00	54.0	0
820224	0953			26	74	8.3	170	8.00	11.7	7.90	53.0	0
820224	0955			39	74	8.3	170	12.00	11.8	7.90	55.0	0
820224	0956			41	74	8.3	170	12.50	11.8	7.80	53.0	0

820212												
NUMBER				8		8	8	8	8	8	7	7
MAXIMUM				41		8.9	170	12.50	11.8	8.10	56.0	0
MINIMUM				1		8.3	160	0.30	10.6	7.80	53.0	0
SUM				141		67.4	1350	43.30	91.5	63.70	377.0	0
SUM SQ.				4269		568.2	227900	401.59	1047.8	507.27	20313.0	0
MEAN				18		8.4	169	5.41	11.4	7.96	53.9	0
VARIANCE				255		0.0	13	23.89	0.2	0.01	1.5	0
STD.DEV.				16		0.2	4	4.89	0.4	0.09	1.2	0
STD.ERR.				6		0.1	1	1.73	0.2	0.03	0.5	0
COEF VAR				91		2.5	2	90.30	3.7	1.16	2.3	0
LOG MEAN				10		8.4	169	3.08	11.4	7.96	53.8	0

820224

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00605 ORG N MG/L	00610 NH3+NH4- N TOTAL MG/L	00630 NO2&NO3 N-TOTAL MG/L	00666 PHOS-DIS MG/L P	00680 T ORG C MG/L	00929 SODIUM NA,TOT MG/L	00940 CHLORIDE TOTAL MG/L	00945 SULFATE SO4-TOT MG/L
820224	0945			1	0.13	0.15	0.47	0.04	4.0			
820224	0947			3	0.14	0.12	0.47	0.03	19.0	4.60	6.0	17
820224	0950			10	0.19	0.10	0.47	0.03	3.3			
820224	0952			16	0.23	0.07	0.48	0.02	3.7			
820224	0955			39						4.50	6.0	16

820212												
NUMBER				8	4	4	4	4	4	2	2	2
MAXIMUM				41	0.23	0.15	0.48	0.04	19.0	4.60	6.0	17
MINIMUM				1	0.13	0.07	0.47	0.02	3.3	4.50	6.0	16
SUM				141	0.68	0.44	1.89	0.12	30.0	9.10	12.0	33
SUM SQ.				4269	0.12	0.05	0.89	0.00	401.6	41.41	72.0	545
MEAN				18	0.17	0.11	0.47	0.03	7.5	4.55	6.0	17
VARIANCE				255	0.00	0.00	0.00	0.00	58.9	0.01	0.0	1
STD.DEV.				16	0.05	0.03	0.01	0.01	7.7	0.07	0.0	1
STD.ERR.				6	0.02	0.02	0.00	0.00	3.8	0.05	0.0	1
COEF VAR				91	26.74	30.60	1.06	27.22	102.3	1.55	0.0	4
LOG MEAN				10	0.17	0.11	0.47	0.03	5.5	4.55	6.0	16

820224

TENNESSEE VALLEY AUTHORITY - DATA SERVICES BRANCH

STATION - 475303

CHICKAMAUGA RESERVOIR TENNESSEE RIVER 480.82

DATE	TIME	DATE	TIME	00003 DEPTH FEET	01042 COPPER CU,TOT UG/L	01045 IRON FE,TOT UG/L	01055 MANGNESE MN UG/L	01092 ZINC ZN,TOT UG/L	32211 CHLRPHYL A UG/L CORRECTD	32212 CHLRPHYL B UG/L	32214 CHLRPHYL C UG/L
820224	0945			1					2.00	1.5	2.5
820224	0947			3	11.00	870	68	19.00	1.60	1.9	2.9
820224	0950			10					1.87	1.8	3.0
820224	0952			16					2.54	2.2	3.4
820224	0955			39	8.00	770	78	22.00			

820212				NUMBER	8	2	2	2	2	4	4	4
				MAXIMUM	41	11.00	870	78	22.00	2.54	2.2	3.4
				MINIMUM	1	8.00	770	68	19.00	1.60	1.5	2.5
				SUM	141	19.00	1640	146	41.00	8.01	7.5	11.7
				SUM SQ.	4269	185.00	1349800	10708	845.00	16.51	14.4	34.7
				MEAN	18	9.50	820	73	20.50	2.00	1.9	2.9
				VARIANCE	255	4.50	5000	50	4.50	0.16	0.1	0.1
				STD.DEV.	16	2.12	71	7	2.12	0.40	0.3	0.4
				STD.ERR.	6	1.50	50	5	1.50	0.20	0.1	0.2
				COEF VAR	91	22.33	9	10	10.35	19.73	15.4	12.6
				LOG MEAN	10	9.38	818	73	20.45	1.97	1.9	2.9

820224

DATE	TIME	DATE	TIME	00003 DEPTH FEET	32218 PHEOPHTN A UG/L	70300 RESIDUE DISS-180 C MG/L	70322 RESIDUE TOT VOL PERCENT	80203 TOT SED SIEVE X<.062MM	80204 TOT SED SIEVE X<.125MM	80206 TOT SED SIEVE X<.500MM	80208 TOT SED SIEVE X<2.00MM
820212	1130						5.1	45.6	47.6	63.8	94.8
820224	0945			1	1.74						
820224	0947			3	2.23	100					
820224	0950			10	2.43						
820224	0952			16	1.58						
820224	0955			39		80					

820212				NUMBER	8	4	2	1	1	1	1	1
				MAXIMUM	41	2.43	100					
				MINIMUM	1	1.58	80					
				SUM	141	7.98	180					
				SUM SQ.	4269	16.40	16400					
				MEAN	18	1.99	90					
				VARIANCE	255	0.16	200					
				STD.DEV.	16	0.40	14					
				STD.ERR.	6	0.20	10					
				COEF VAR	91	20.09	16					
				LOG MEAN	10	1.96	89					

820224

CHICKAMAUGA RESERVOIR TENNESSEE RIVER 483.40

CHICKAMAUGA RESERVOIR TENNESSEE RIVER 483.40

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00002 HSAMPLOC % FROM RT BANK	00010 WATER TEMP CENT	00095 CNDUCTVY AT 25C MICROMHO	00098 VSAMPLOC DEPTH METERS	00300 DO MG/L	00400 PH SU	00410 T ALK CAC03 MG/L	00415 PHEN-PH- LFIN ALK MG/L
820208	1437				17							
820224	1055			1	17	9.0	170	0.30	10.4	8.00	53.0	0
820224	1057			3	17	8.5	170	1.00	10.4	7.90	54.0	0
820224	1058			5	17	8.0	170	1.50	11.0	7.90		
820224	1100			10	17	7.5	180	3.00	11.0	7.80	54.0	0
820224	1102			16	17	7.5	180	5.00	11.0	7.70	54.0	0
820224	1103			26	17	7.5	180	8.00	11.2	7.80	54.0	0
820224	1105			39	17	7.5	180	12.00	11.4	7.80	54.0	0
820224	1106			49	17	7.5	180	15.00	11.6	7.70	53.0	0
820503	1115			1	17	19.0	180	0.30	8.9	6.70	53.0	0
820503	1117			3	17	20.0	185	1.00	8.7	6.70	52.0	0
820503	1118			5	17	20.0	185	1.50	8.7	6.70		
820503	1120			10	17	20.0	185	3.00	8.6	6.70	52.0	0
820503	1122			16	17	19.0	185	5.00	8.5	6.70	53.0	0
820503	1123			26	17	18.5	185	8.00	8.1	6.70	54.0	0
820503	1125			39	17	17.5	185	12.00	7.9	6.80	54.0	0
820503	1126			49	17	17.0	185	15.00	7.1	6.90	55.0	0
820505	1122				17							
820803	1029			1	17	27.5	200	0.30	4.6	7.20	69.0	0
820803	1030			3	17	27.4	200	1.00	4.4	7.20	66.0	0
820803	1032			5	17	27.4	200	1.50	4.5	7.20		
820803	1034			10	17	26.9	200	3.00	4.3	7.20	68.0	0
820803	1036			16	17	26.5	200	5.00	4.5	7.20	68.0	0
820803	1037			26	17	26.5	200	8.00	4.3	7.30	68.0	0
820803	1038			39	17	26.5	200	12.00	4.4	7.30	68.0	0
820803	1039			49	17	26.4	200	15.00	4.8	7.30	67.0	0
820805	1045				17							
821101	1214				17							
821116	1129			1	17	12.1	190	0.30	9.9	7.50	61.0	0
821116	1130			3	17	12.4	190	1.00	9.8	7.50	60.0	0
821116	1132			5	17	12.4	190	1.50	9.7	7.50		
821116	1134			10	17	12.4	190	3.00	9.7	7.50	61.0	0
821116	1136			16	17	12.1	190	5.00	9.7	7.50	61.0	0
821116	1137			26	17	12.1	190	8.00	9.6	7.50	61.0	0
821116	1139			39	17	12.1	190	12.00	9.4	7.50	60.0	0
821116	1140			49	17	12.1	190	15.00	9.2	7.50	61.0	0
820208												
NUMBER				32		32	32	32	32	32	28	28
MAXIMUM				49		27.5	210	15.00	11.6	8.00	69.0	0

CHICKAMAUGA RESERVOIR TENNESSEE RIVER 483.40

[illegible]

TENNESSEE VALLEY AUTHORITY - DATA SERVICES BRANCH

STATION - 475304

CHICKAMAUGA RESERVOIR TENNESSEE RIVER 483.40

DATE	TIME	DATE	TIME	00003 DEPTH FEET	01042 COPPER CU,TOT UG/L	01045 IRON FE,TOT UG/L	01055 MANGNESE MN UG/L	01092 ZINC ZN,TOT UG/L	32211 CHLRPHYL A UG/L CORRECTD	32212 CHLRPHYL B UG/L	32214 CHLRPHYL C UG/L	32218 PHEOPHTN A UG/L
820224	1055			1					2.40	2.0	3.0	2.27
820224	1057			3	3.00	830	58	13.00	2.14	0.2	3.2	1.42
820224	1100			10					2.00	1.8	2.9	2.11
820224	1102			16					2.40	1.9	2.9	1.80
820224	1105			39	3.00	760	74	15.00				
920503	1115			1					3.60	1.8	3.0	3.60
920503	1117			3	30.00	240	40	110.00	4.41	2.1	3.3	2.04
920503	1120			10					4.40	1.7	2.9	2.23
920503	1122			16					3.07	2.0	3.0	3.66
920503	1125			39	30.00	240	40	10.00<				
820803	1029			1					2.80	2.7	3.7	3.18
820803	1030			3	70.00	350	70	30.00	3.74	2.8	3.6	2.34
820803	1034			10					4.00	2.6	3.6	1.70
820803	1036			16					3.48	2.5	3.7	2.70
820803	1038			39	70.00	360	90	30.00				
821116	1129			1					2.27	0.5	0.5	0.16
821116	1130			3	20.00	250	40	150.00	2.00	0.4	0.5	0.52
821116	1134			10					1.60	0.1	0.2	0.73
821116	1136			16					1.60	0.0	0.4	0.74
821116	1139			39	30.00	260	40	10.00<				
820208												
NUMBER				32	8	8	8	8	16	16	16	16
MAXIMUM				49	70.00	830	90	150.00	4.41	2.8	3.7	3.66
MINIMUM				1	3.00	240	40	10.00<	1.60	0.0	0.2	0.16
SUM				596	256.00	3290	462	368.00	45.91	25.0	40.3	31.20
SUM SQ.				19956	12918.00	1763900	29500	36994.00	145.50	53.3	126.9	77.50
MEAN				19	32.00	411	58	46.00	2.87	1.6	2.5	1.95
VARIANCE				286	675.14	58698	403	2866.57	0.92	1.0	1.7	1.11
STD.DEV.				17	25.98	242	20	53.54	0.96	1.0	1.3	1.05
STD.ERR.				3	9.19	86	7	18.93	0.24	0.2	0.3	0.26
COEF VAR				91	81.20	59	35	116.39	33.39	62.7	51.6	54.04
LOG MEAN				10	19.82	362	55	27.08	2.72	1.0	1.9	1.55
821116												

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STATION - 475304

CHICKAMAUGA RESERVOIR TENNESSEE RIVER 483.40

[illegible]

TENNESSEE VALLEY AUTHORITY - DATA SERVICES BRANCH

STATION - 475306

CHICKAMAUGA RESERVOIR TENNESSEE RIVER 484.10

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00002 HSAMPLOC % FROM RT BANK	00010 WATER TEMP CENT	00095 CNDUCTVY AT 25C MICROMHO	00098 VSAMPLOC DEPTH METERS	00300 DO MG/L	00400 PH SU	00410 T ALK CAC03 MG/L	00415 PHEN-PH- LFIN ALK MG/L	00610 NH3+NH4- N TOTAL MG/L
820224	1230			1	66	8.5	180	0.30	10.6	7.80			
820224	1232			3	66	8.5	180	1.00	10.8	7.70	53.0	0	0.06
820224	1233			5	66	8.5	190	1.50	11.1	7.70			
820224	1234			13	66	8.5	190	4.00	11.4	7.70	52.0	0	
920224	1235			26	66	8.5	190	8.00	11.4	7.70	52.0	0	
820224	1236			39	66	8.5	190	12.00	11.4	7.70	53.0	0	0.12
920224	1238			46	66	8.5	190	14.00	11.4	7.60	52.0	0	
820503	1230			1	66	20.5	195	0.30	10.3	7.60			
820503	1232			3	66	20.0	195	1.00	10.1	7.50	53.0	0	0.62
820503	1233			5	66	19.5	190	1.50	9.6	7.50			
820503	1234			13	66	17.0	190	4.00	8.8	7.40			
820503	1235			26	66	16.2	190	8.00	8.2	7.20			
820503	1236			39	66	15.5	190	12.00	7.5	7.20	50.0	0	0.07
820503	1238			46	66	15.2	190	14.00	7.4	7.50			
820803	1204			1	66	28.5	200	0.30	6.7	7.60			
820803	1205			3	66	28.5	200	1.00	6.3	7.60	65.0	0	0.01<
820803	1206			5	66	28.0	200	1.50	5.8	7.50			
820803	1207			13	66	27.9	200	4.00	5.3	7.30	66.0	0	
820803	1208			26	66	25.1	200	8.00	4.4	7.20	65.0	0	
920803	1209			39	66	25.0	200	12.00	4.2	7.20	68.0	0	0.02
920803	1210			46	66	27.0	200	14.00	4.1	7.20	67.0	0	
821116	1535			1	66	12.5	200	0.30	10.6	7.60			
821116	1536			3	66	12.5	195	1.00	10.2	7.50			0.07
821116	1538			5	66	12.5	195	1.50	9.9	7.50			
821116	1539			13	66	12.5	195	4.00	9.6	7.50			
921116	1540			26	66	12.5	195	8.00	9.5	7.50			
821116	1542			39	66	12.5	195	12.00	9.3	7.50			0.07
821116	1543			46	66	12.5	195	14.00	9.3	7.50			
820224													
NUMBER				28		28	28	28	28	28	12	12	8
MAXIMUM				46		28.5	200	14.00	11.4	7.80	68.0	0	0.62
MINIMUM				1		8.5	180	0.30	4.1	7.20	50.0	0	0.01<
SUM				532		460.9	5420	163.20	245.2	210.00	696.0	0	1.04
SUM SQ.				18068		8993.6	1050000	1693.36	2298.9	1575.84	40958.0	0	0.42
MEAN				19		16.5	194	5.83	8.8	7.50	58.0	0	0.13
VARIANCE				255		52.1	31	27.49	5.6	0.03	53.6	0	0.04
STD.DEV.				17		7.2	6	5.24	2.4	0.18	7.3	0	0.20
STD.ERR.				3		1.4	1	0.99	0.4	0.03	2.1	0	0.07
COEF VAR				90		43.9	3	89.95	27.0	2.35	12.6	0	154.50
LOG MEAN				10		15.0	193	3.04	8.4	7.50	57.6	0	0.06
921116													

TENNESSEE VALLEY AUTHORITY - DATA SERVICES BRANCH

STATION - 475306

CHICKAMAUGA RESERVOIR TENNESSEE RIVER 484.10

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00680 T ORG C MG/L	00929 SODIUM NA,TOT MG/L	00940 CHLORIDE TOTAL MG/L	00945 SULFATE SO4-TOT MG/L	01042 COPPER CU,TOT UG/L	01045 IRON FE,TOT UG/L	01055 MANGNESE MN UG/L	01092 ZINC ZN,TOT UG/L	70300 RESIDUE DISS-160 C MG/L
920224	1232			3	4.2	4.80	6.0	17	2.00	940	68	16.00	90
820224	1236			39	8.9	4.80	7.0	15	5.00	908	74	26.00	70
820503	1232			3	2.3	6.70	9.0	15	20.00	70	10<	10.00<	110
820503	1236			39	2.6	7.00	10.0	15	20.00	190	50	10.00<	100
820803	1205			3		6.60	8.0	16	60.00	130	60	20.00	110
820803	1209			39		6.40	8.0	16	60.00	420	100	20.00	130
921116	1536			3		7.40	8.0	15	30.00	380	40	20.00	100
821116	1542			39		7.70	8.0	14	30.00	300	50	10.00<	110
820224													
NUMBER				28	4	8	8	8	8	8	8	8	8
MAXIMUM				46	8.9	7.70	10.0	17	60.00	940	100	26.00	130
MINIMUM				1	2.3	4.80	6.0	14	2.00	70	10<	10.00<	70
SUM				532	18.0	51.40	64.0	124	227.00	3338	452	132.00	820
SUM SQ.				18068	108.9	338.54	522.0	1928	9829.00	2176764	30400	2432.00	86200
MEAN				19	4.5	6.42	8.0	15	28.38	417	57	16.50	103
VARIANCE				295	9.3	1.19	1.4	1	483.98	111998	695	36.29	307
STD.DEV.				17	3.0	1.09	1.2	1	22.00	335	26	6.02	18
STD.ERR.				3	1.5	0.38	0.4	0	7.78	118	9	2.13	6
COEF VAR				90	67.8	16.94	14.9	6	77.53	80	47	36.51	17
LOG MEAN				10	3.9	6.34	7.9	15	18.37	303	48	15.50	101
921116													

TENNESSEE VALLEY AUTHORITY - DATA SERVICES BRANCH

STATION - 475265

CHICKAMAUGA RESERVOIR TENNESSEE RIVER 490.47

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00002 HSAMPLE % FROM RT BANK	00010 WATER TEMP CENT	00095 CONDUCTVY AT 25C MICRONHO	00098 VSAMPLE DEPT-1 METERS	00300 DO MG/L	00400 PH SU	00410 T ALK CAC03 MG/L	00415 PHEN-PH- LFIN ALK MG/L
820212	1315				85							
820224	1138			1	85	8.5	180	0.30	10.4	8.10	57.0	0
820224	1140			3	85	8.5	180	1.00	10.8	7.90	56.0	0
820224	1141			5	85	8.5	180	1.50	11.2	7.80		
820224	1142			10	85	8.0	180	3.00	11.4	7.80	57.0	0
820224	1144			16	85	8.0	190	5.00	11.4	7.80	55.0	0
820224	1145			23	85	8.0	190	7.00	11.6	7.70	54.0	0
820224	1146			30	85	8.0	190	9.00	11.6	7.70	56.0	0
820503	1015			1	85	19.0	180	0.30	11.4	8.20	52.0	0
820503	1017			3	85	18.5	180	1.00	11.2	8.20	49.0	0
820503	1018			5	85	18.5	180	1.50	11.2	8.20		
820503	1020			10	85	17.4	180	3.00	11.2	8.20	51.0	
820503	1022			16	85	16.9	190	5.00	9.7	7.80	53.0	0
820503	1023			23	85	16.7	190	7.00	10.2	7.80	55.0	0
820503	1024			30	85	15.2	190	9.00	7.8	7.50	55.0	0
820503	1025			36	85	15.0	190	11.00	7.8	7.40		
820505	0949				85							
820803	0923			1	85	26.0	200	0.30	5.2	7.30	67.0	0
820803	0925			3	85	26.0	200	1.00	4.6	7.30	67.0	0
820803	0926			5	85	26.0	200	1.50	4.5	7.30		
820803	0928			10	85	26.0	200	3.00	4.5	7.30	67.0	0
820803	0930			16	85	26.0	200	5.00	4.4	7.30	67.0	0
820803	0931			23	85	26.0	200	7.00	4.3	7.30	67.0	0
820803	0932			30	85	25.9	200	9.00	4.3	7.30	67.0	0
820803	0933			39	85	25.9	200	12.00	4.2	7.30	67.0	0
820805	0940				85							
921101	1333				85							
921116	1237			1	85	12.5	200	0.30	10.4	7.50	65.0	0
921116	1239			3	85	12.5	200	1.00	9.8	7.50	63.0	0
921116	1240			5	85	12.5	200	1.50	9.6	7.50		
921116	1242			10	85	12.5	200	3.00	9.5	7.50	63.0	0
921116	1244			16	85	12.5	200	5.00	9.5	7.50	63.0	0
921116	1245			23	85	12.5	200	7.00	9.4	7.50	64.0	0
921116	1246			30	85	12.5	200	9.00	9.3	7.50	64.0	0
820212												
NUMBER				30		30	30	30	30	30	25	24
MAXIMUM				39		26.0	200	12.00	11.6	8.20	67.0	0
MINIMUM				1		8.0	180	0.30	4.2	7.30	49.0	0
SUM				427		490.0	5770	130.23	262.4	229.00	1501.0	0
SUM SQ.				10097		9332.9	1111900	934.35	2519.8	1750.84	91023.0	0
MEAN				14		16.3	192	4.34	8.7	7.63	60.0	0
VARIANCE				139		45.8	74	12.73	7.7	0.10	37.6	0
STD.DEV.				12		6.8	9	3.57	2.8	0.31	6.1	0
STD.ERR.				2		1.2	2	0.65	0.5	0.06	1.2	0
COEF VAR				83		41.5	4	92.22	31.8	4.08	10.2	0
LOG MEAN				9		15.0	192	2.54	8.2	7.63	59.7	0
821116												

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TENNESSEE VALLEY AUTHORITY - DATA SERVICES BRANCH

STATION - 475265

CHICKAMAUGA RESERVOIR TENNESSEE RIVER 490.47

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00605 ORG N MG/L	00610 NH3+NH4- N TOTAL MG/L	00630 NO2&NO3 N-TOTAL MG/L	00555 PHOS-DIS MG/L P	00580 T ORG C MG/L	00929 SODIUM NA,TOT MG/L	00940 CHLORIDE TOTAL MG/L	00945 SULFATE SO4-TOT MG/L
820224	1138			1	0.10	0.13	0.52	0.03	3.4			
820224	1140			3	0.12	0.07	0.52	0.03	4.4	4.50	6.0	16
820224	1142			10	0.13	0.06	0.50	0.03	3.7			
820224	1144			16	0.09	0.07	0.50	0.03	3.7			
820503	1015			1	0.13	0.01	0.22	0.01	4.8			
820503	1017			3	0.12	0.06	0.24	0.01<	4.5	7.00	10.0	16
820503	1020			10	0.16	0.04	0.37	0.01	4.1			
820503	1022			16	0.14	0.04	0.23	0.01<	2.9			
820803	0923			1	0.19	0.07	0.38		3.1			
820803	0925			3	0.18	0.03	0.28	0.01	2.7	6.70	8.0	15
820803	0928			10	0.16	0.04	0.34		2.6			
820803	0930			16	0.23	0.04	0.29		2.8			
820803	0933			39		0.04				6.50	8.0	16
821116	1237			1	0.07	0.07	0.36	0.01	2.1			
821116	1239			3	0.05	0.07	0.30	0.02	2.7	7.30	8.0	15
821116	1242			10	0.07	0.09	0.30	0.02	2.2			
821116	1244			16	0.15	0.11	0.55	0.01	2.5			

820212

NUMBER	30	16	17	16	13	16	5	5	5
MAXIMUM	39	0.23	0.13	0.65	0.03	4.8	7.30	10.0	16
MINIMUM	1	0.05	0.01	0.22	0.01<	2.1	4.50	6.0	15
SUM	427	2.09	1.04	6.00	0.23	52.2	32.00	40.0	78
SUM SQ.	10097	0.31	0.08	2.49	0.01	181.1	209.68	328.0	1218
MEAN	14	0.13	0.06	0.37	0.02	3.3	6.40	8.0	16
VARIANCE	139	0.00	0.00	0.02	0.00	0.7	1.22	2.0	0
STD.DEV.	12	0.05	0.03	0.13	0.01	0.8	1.10	1.4	1
STD.ERR.	2	0.01	0.01	0.03	0.00	0.2	0.49	0.6	0
COEF VAR	83	36.82	48.66	33.82	52.39	26.0	17.26	17.7	4
LOG MEAN	9	0.12	0.05	0.36	0.02	3.2	6.31	7.9	16

821116

DATE	TIME	DATE	TIME	00003 DEPTH FEET	01042 COPPER CU,TOT UG/L	01045 IRON FE,TOT UG/L	01055 MANGNESE MN UG/L	01092 ZINC ZN,TOT UG/L	32211 CHLRPHYL A UG/L CORRECTD	32212 CHLRPHYL B UG/L	32214 CHLRPHYL C UG/L	32218 PHEOPHTN A UG/L
820224	1138			1					2.67	2.2	3.3	1.72
820224	1140			3	2.00	610	66	16.00	2.40	1.9	3.1	1.90
820224	1142			10					2.14	1.9	3.2	2.07
820224	1144			16					2.53	1.4	2.3	1.30
820503	1015			1					5.48	1.7	3.1	2.38
820503	1017			3	10.00	90	20	10.00<	6.68	1.9	3.6	1.74
820503	1020			10					8.28	1.9	4.0	3.87
820503	1022			16					7.08	2.0	3.7	4.24
820803	0923			1					2.54	2.4	3.7	2.51
820803	0925			3	60.00	120	50	20.00	2.27	2.7	4.1	2.96
820803	0928			10					1.47	2.7	4.0	3.95
820803	0930			16					1.47	2.7	3.8	3.76
820803	0933			39	50.00	410	120	20.00				
821116	1237			1					1.87	0.2	0.3	1.03

TENNESSEE VALLEY AUTHORITY - DATA SERVICES BRANCH

STATION - 475265

CHICKAMAUGA RESERVOIR TENNESSEE RIVER 490.47

DATE	TIME	DATE	TIME	00003 DEPTH	01042 COPPER CU,TOT UG/L	01045 IRON FE,TOT UG/L	01055 MANGNESE MN UG/L	01092 ZINC ZN,TOT UG/L	32211 CHLRPHYL A UG/L CORRECTD	32212 CHLRPHYL B UG/L	32214 CHLRPHYL C UG/L	32216 PHEOPHTN A UG/L
821116	1239			3	20.00	200	40	80.00	1.34	0.0M	0.2	1.46
821116	1242			10					2.00	0.4	0.5	0.62
821116	1244			16					1.60	0.3	0.3	1.10

820212

NUMBER	30	5	5	5	5	16	16	16	16
MAXIMUM	39	60.00	610	120	80.00	8.28	2.7	4.1	4.24
MINIMUM	1	2.00	80	20	10.00	1.34	0.0	0.2	0.62
SUM	427	142.00	1420	296	146.00	51.82	26.3	43.1	36.51
SUM SQ.	10097	6604.00	601000	23256	7556.00	244.99	55.7	148.9	103.41
MEAN	14	28.40	284	59	29.20	3.24	1.6	2.7	2.28
VARIANCE	139	642.80	49430	1433	823.20	5.14	0.8	2.2	1.34
STD.DEV.	12	25.35	222	38	28.69	2.27	0.9	1.5	1.16
STD.ERR.	2	11.34	99	17	12.83	0.57	0.2	0.4	0.29
COEF VAR	83	89.27	78	54	98.25	70.03	55.4	54.8	50.73
LOG MEAN	9	16.44	217	50	21.97	2.69	1.1	1.9	2.00

821116

17

DATE	TIME	DATE	TIME	00003 DEPTH	70300 RESIDUE DISS-180 C MG/L	70322 RESIDUE TOT VOL PERCENT	80203 TOT SED SIEVE X<.062MM	80204 TOT SED SIEVE X<.125MM	80206 TOT SED SIEVE X<.500MM	80208 TOT SED SIEVE X<2.00MM	00031 INCDT LT REMNING PERCENT	00078 TRANSP SECCHI METERS
820212	1315					6.7	81.2	94.5	99.9	99.9		
820224	1140			3	100							
820503	1017			3	120							
820505	0949					6.3	83.1	96.2	99.2	100.0		
820803	0923			1							63.0	1.75
820803	0925			3	110						2.6	
820803	0928			10							2.6	
820803	0930			16							0.4	
820803	0931			23							0.0	
820803	0932			39							0.0<	
820803	0933			39	90							
820805	0940					6.3	85.6	96.9	100.0	100.0		
821101	1333					6.1	81.7	94.8	99.9	100.0		
821116	1237			1							68.0	1.75
821116	1239			3	110						23.0	
821116	1242			10							3.8	
821116	1244			16							0.9	
821116	1245			23							0.2	

TENNESSEE VALLEY AUTHORITY - DATA SERVICES BRANCH

STATION - 475265

CHICKAMAUGA RESERVOIR TENNESSEE RIVER 490.47

				00003	70300	70322	80203	80204	80206	80208	00031	00078	
				DEPTH	RESIDUE	RESIDUE	TOT SED	TOT SED	TOT SED	TOT SED	INCDT LT	TRANSP	
				DISS-180	TOT VOL	SIEVE	SIEVE	SIEVE	SIEVE	REMNING	SECCHI		
DATE	TIME	DATE	TIME	FEET	C	MG/L	PERCENT	X<.062MM	X<.125MM	X<.500MM	X<2.00MM	PERCENT	METERS
820212													
NUMBER				30	5	4	4	4	4	4	4	11	2
MAXIMUM				39	120	6.7	85.6	96.9	100.0	100.0	68.0	1.75	
MINIMUM				1	90	5.1	81.2	94.6	99.2	99.9	0.0<	1.75	
SUM				427	530	25.3	331.7	382.4	399.0	399.9	164.6	3.50	
SUM SQ.				10097	56700	160.5	27511.6	36570.8	39796.7	39980.0	9151.1	6.13	
MEAN				14	106	6.3	82.9	95.6	99.7	100.0	15.0	1.75	
VARIANCE				139	130	0.1	4.0	1.3	0.2	0.0	668.7	0.00	
STD.DEV.				12	11	0.3	2.0	1.1	0.4	0.1	25.9	0.00	
STD.ERR.				2	5	0.1	1.0	0.5	0.2	0.0	7.8	0.00	
COEF VAR				83	11	4.0	2.4	1.2	0.4	0.1	172.8	0.00	
LOG MEAN				9	105	6.3	82.9	95.6	99.7	100.0	1.5	1.75	

821116

TENNESSEE VALLEY AUTHORITY - DATA SERVICES BRANCH

STATION - 475302

CHICKAMAUGA RESERVOIR TENNESSEE RIVER 478.19

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00002 HSAMPLOC % FROM RT BANK	00010 WATER TEMP CENT	00095 CNDUCTVY AT 25C MICROMHO	00098 VSAMPLOC DEPTH METERS	00300 DO MG/L	00400 PH SU	00410 T ALK CAC03 MG/L	00415 PHEN-PH- LFIN ALK MG/L
820503	1212			1	74	20.4	180	0.30	9.7	7.30	55.0	0
820503	1214			3	74	19.6	180	1.00	9.3	7.30	54.0	0
820503	1215			5	74	19.5	180	1.50	9.1	7.10		
820503	1216			10	74	19.0	180	3.00	8.6	7.10	54.0	0
820503	1218			16	74	18.6	180	5.00	8.4	6.95	54.0	0
820503	1219			26	74	17.5	180	8.00	8.0	7.00	55.0	0
820503	1220			39	74	17.0	180	12.00	7.9	6.93	58.0	0
820503	1222			46	74	16.6	180	14.00	7.7	6.90	58.0	0
820505	1239				74							
820803	1125			1	74	28.5	200	0.30	6.0	7.40	64.0	0
820803	1126			3	74	26.9	200	1.00	6.2	7.30	68.0	0
820803	1128			5	74	26.7	200	1.50	6.1	7.30		
820803	1130			10	74	26.5	200	3.00	6.1	7.30	67.0	0
820803	1132			16	74	26.0	200	5.00	5.9	7.30	66.0	0
820803	1133			26	74	26.0	200	8.00	5.7	7.20	66.0	0
820803	1134			39	74	26.0	200	12.00	5.9	7.20	67.0	0
820803	1136			46	74	26.0	200	14.00	5.8	7.20	68.0	0
820805	1140				74							
821101	1107				74							
821116	1023			1	74	12.4	190	0.30	11.4	7.70	60.0	0
821116	1025			3	74	12.5	190	1.00	10.4	7.70	60.0	0
821116	1026			5	74	12.5	190	1.50	10.0	7.60		
821116	1028			10	74	12.5	190	3.00	9.8	7.60	61.0	0
821116	1030			16	74	12.5	190	5.00	9.7	7.50	61.0	0
821116	1031			26	74	12.5	190	8.00	9.7	7.50	62.0	0
821116	1033			39	74	12.5	190	12.00	9.6	7.50	62.0	0
821116	1034			46	74	12.5	190	14.00	9.5	7.50	62.0	0
820503												
NJMBER				24		24	24	24	24	24	21	21
MAXIMUM				46		28.5	200	14.00	11.4	7.70	68.0	0
MINIMUM				1		12.4	180	0.30	5.7	6.90	54.0	0
SUM				438		460.7	4560	134.40	196.5	175.38	1282.0	0
SUM SQ.				14112		9660.8	868000	1324.02	1683.0	1282.88	78734.0	0
MEAN				18		19.2	190	5.60	8.2	7.31	61.0	0
VARIANCE				266		35.5	70	24.84	3.2	0.06	23.5	0
STD.DEV.				16		6.0	8	4.98	1.8	0.24	4.9	0
STD.ERR.				3		1.2	2	1.02	0.4	0.05	1.1	0
COEF VAR				89		31.1	4	89.00	21.9	3.24	7.9	0
LOG MEAN				10		18.3	190	3.12	8.0	7.30	60.9	0
821116												

TENNESSEE VALLEY AUTHORITY - DATA SERVICES BRANCH

STATION - 475302

CHICKAMAUGA RESERVOIR TENNESSEE RIVER 478.19

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00605 ORG N MG/L	00610 NH3+NH4- N TOTAL MG/L	00630 NO2&NO3 N-TOTAL MG/L	00555 PHOS-DIS MG/L P	00680 T ORG C MG/L	00929 SODIUM NA,TOT MG/L	00940 CHLORIDE TOTAL MG/L	00945 SULFATE SO4-TOT MG/L
820503	1212			1	0.10	0.22	0.29	0.03	2.5			
820503	1214			3	0.84	0.76	0.22	0.22	3.1	6.60	10.0	16
820503	1216			10	0.08	0.06	0.29	0.01	2.7			
820503	1218			16	0.23	0.09	0.29	0.01<	9.7			
820503	1220			39		0.02			9.8	5.30	7.0	14
820803	1125			1	0.26	0.01	0.26		2.9			
820803	1126			3	0.19	0.01<	0.26	0.01<	2.9	6.60	8.0	16
820803	1130			10	0.23	0.01	0.26		9.6			
820803	1132			16	0.21	0.01	0.27		2.9			
820803	1134			39		0.01				6.40	8.0	16
821116	1023			1	0.07	0.07	0.29	0.01	2.4			
821116	1025			3	0.09	0.07	0.29	0.01	2.2	7.60	8.0	15
821116	1028			10	0.08	0.08	0.29	0.01	2.2			
821116	1030			16	0.08	0.08	0.29	0.02	2.2			
821116	1033			39		0.05				7.50	8.0	14

820503												
NUMBER				24	12	15	12	9	13	6	6	6
MAXIMUM				46	0.84	0.76	0.29	0.22	9.8	7.60	10.0	16
MINIMUM				1	0.07	0.01<	0.22	0.01<	2.2	5.30	7.0	14
SUM				438	2.46	1.55	3.30	0.33	55.1	40.00	49.0	91
SUM SQ.				14112	1.00	0.66	0.91	0.05	350.9	270.18	405.0	1385
MEAN				18	0.20	0.10	0.27	0.04	4.2	6.67	8.2	15
VARIANCE				266	0.05	0.04	0.00	0.00	9.8	0.70	1.0	1
STD.DEV.				16	0.21	0.19	0.02	0.07	3.1	0.84	1.0	1
STD.ERR.				3	0.06	0.05	0.01	0.02	0.9	0.34	0.4	0
COEF VAR				89	103.70	183.53	7.98	188.46	73.8	12.57	12.0	6
LOG MEAN				10	0.15	0.04	0.27	0.02	3.5	6.62	8.1	15

821116

DATE	TIME	DATE	TIME	00003 DEPTH FEET	01042 COPPER CU,TOT UG/L	01045 IRON FE,TOT UG/L	01055 MANGNESE MN UG/L	01092 ZINC ZN,TOT UG/L	32211 CHLRPHYL A UG/L CORRECTD	32212 CHLRPHYL B UG/L	32214 CHLRPHYL C UG/L	32218 PHEOPHTN A UG/L
820503	1212			1					5.34	2.0	3.4	2.42
820503	1214			3	20.00	160	20	10.00<	5.34	2.2	3.2	2.60
820503	1216			10					5.08	2.2	3.6	2.31
820503	1218			16					4.27	2.1	3.1	3.11
820503	1220			39	30.00	230	40	10.00<				
820803	1125			1					7.34	3.0	4.0	2.38
820803	1126			3	70.00	370	50	30.00	6.81	3.1	4.0	3.38
820803	1130			10					6.80	3.2	4.3	2.72
820803	1132			16					5.74	2.9	4.0	2.67
820803	1134			39	70.00	460	110	20.00				
821116	1023			1					1.47	0.1M	0.1M	0.58
821116	1025			3	30.00	250	40	10.00<	1.74	0.2	0.1	0.41
821116	1028			10					1.87	0.2	0.4	0.46
821116	1030			16					1.74	0.3	0.3	0.32
821116	1033			39	30.00	310	40	10.00<				

TENNESSEE VALLEY AUTHORITY - DATA SERVICES BRANCH

STATION - 475302

CHICKAMAUGA RESERVOIR TENNESSEE RIVER 473.19

DATE	TIME	DATE	TIME	00003 DEPTH FEET	01042 COPPER CU, TOT UG/L	01045 IRON FE, TOT UG/L	01055 MANGNESE MN UG/L	01092 ZINC ZN, TOT UG/L	32211 CHLRPHYL A UG/L CORRECTD	32212 CHLRPHYL B UG/L	32214 CHLRPHYL C UG/L	32215 PHOSPHATA A UG/L
820503												
NUMBER				24	6	6	6	6	12	12	12	12
MAXIMUM				45	70.00	460	110	30.00	7.34	3.2	4.3	3.39
MINIMUM				1	20.00	160	20	10.00	1.47	0.1	0.1	0.32
SUM				433	250.00	1780	310	90.00	53.54	21.5	30.5	23.36
SUM SQ.				14112	12900.00	585600	20900	1700.00	292.22	55.6	110.8	50.06
MEAN				18	41.67	297	52	15.00	4.46	1.8	2.5	1.95
VARIANCE				266	496.67	11507	977	70.00	4.85	1.6	3.0	1.33
STD. DEV.				16	22.29	107	31	8.37	2.20	1.2	1.7	1.15
STD. ERR.				3	9.10	44	13	3.42	0.64	0.4	0.5	0.33
COEF VAR				89	53.49	36	50	55.78	49.36	69.6	68.7	59.15
LOG MEAN				10	37.19	290	45	13.48	3.83	1.1	1.4	1.46

821116

DATE	TIME	DATE	TIME	00003 DEPTH FEET	70300 RESIDUE DISS-180 C MG/L	70322 RESIDUE TOT VOL PERCENT	80203 TOT SED SIEVE X<.062MM	80204 TOT SED SIEVE X<.125MM	80206 TOT SED SIEVE X<.500MM	80208 TOT SED SIEVE X<2.00MM	00031 INCDT LT REMNING PERCENT	00078 TRANSP SECCHI METERS
820503	1214			3	100							
820503	1220			39	100							
820505	1239					7.8	95.1	95.8	99.5	100.0		
820803	1125			1							60.0	1.50
820803	1126			3	110						19.0	
820803	1130			10							1.6	
820803	1132			16							0.2	
820803	1133			26							0.0	
820803	1134			39	120							
820805	1140					7.2	66.5	92.8	99.9	100.0		
821101	1107					5.4	66.0	67.4	93.7	100.0		
821116	1023			1							58.0	2.50
821116	1025			3	110						21.0	
821116	1028			10							2.6	
821116	1030			15							0.6	
821116	1031			26							0.1	
821116	1033			39	110							

820503

NUMBER	24	6	3	3	3	3	3	3	10	2
MAXIMUM	45	120	7.8	95.1	96.8	99.9	100.0	60.0	2.50	
MINIMUM	1	100	5.4	66.0	67.4	93.7	100.0	0.0	1.50	
SUM	433	650	20.4	247.6	257.0	253.1	300.0	163.0	4.00	
SUM SQ.	14112	70700	141.4	20991.3	22519.7	28659.5	30000.0	7775.7	8.50	
MEAN	18	109	6.2	82.5	85.7	97.7	100.0	16.3	2.00	
VARIANCE	266	57	1.6	223.9	253.4	11.8	0.0	568.7	0.50	
STD. DEV.	16	8	1.3	15.0	15.9	3.4	0.0	23.8	0.71	
STD. ERR.	3	3	0.7	8.6	9.2	2.0	0.0	7.5	0.50	
COEF VAR	89	7	18.7	18.1	18.6	3.5	0.0	146.3	35.36	
LOG MEAN	10	109	6.7	81.6	84.6	97.7	100.0	1.5	1.84	

821116

APPENDIX C

WATER QUALITY DATA COLLECTED CONCOMITANTLY
WITH BENTHIC MACROINVERTEBRATE SAMPLES,
SEQUOYAH NUCLEAR PLANT, CHICKAMAUGA RESERVOIR
IN 1982

Appendix C. Water Quality Data Collected Concomitantly with Benthic Macroinvertebrate Samples Sequoyah Nuclear Plant, Chickamauga Reservoir in 1982

TRM 478.2*					TRM 483.4					TRM 490.5				
Depth (m)	Temp. (°C)	DO (mg/l) (74%)	Cond. (µmhos/ cm)	pH	Depth (m)	Temp. (°C)	DO (mg/l) (90%)	Cond. (µmhos/ cm)	pH	Depth (m)	Temp. (°C)	DO (mg/l) (85%)	Cond. (µmhos/ cm)	pH
February 12, 1982														
0.3	6.0	11.8	150	8.2	0.3	5.2	14.8	156	7.4	0.3	6.0	13.6	165	7.5
1.0	6.0	13.2	160	7.7	1.0	5.2	14.7	156	7.3	1.0	6.0	13.8	190	7.5
1.5	6.0	13.6	160	7.7	2.0	5.3	14.6	156	7.4	2.0	6.0	14.1	190	7.5
3.0	6.0	13.9	160	7.6	3.0	5.3	14.4	156	7.4	3.0	6.0	14.3	190	7.4
5.0	6.0	14.2	155	7.6	4.0	5.3	14.3	155	7.4	5.0	6.0	14.3	190	7.4
8.0	6.0	14.2	155	7.6						8.0	6.0	14.4	190	7.4
12.0	6.0	14.4	155	7.6						9.5	6.0	14.4	190	7.4
13.5	6.0	14.4	155	7.6										
May 5, 1982														
0.3	21.2	9.6	185	7.6	0.3	21.0	9.2	190	8.0	0.3	19.4	12.2	190	8.3
1.0	20.2	8.4	180	7.4	1.0	21.0	8.9	190	8.1	1.0	19.4	12.0	190	8.3
2.0	20.0	8.3	185	7.4	2.0	20.5	8.8	190	7.9	2.0	19.4	11.8	185	8.2
3.0	19.8	8.0	185	7.3	3.0	20.5	8.7	190	7.9	3.0	19.4	11.4	185	8.2
4.0	19.8	8.0	185	7.4	4.0	20.5	8.6	190	7.8	4.0	18.7	11.2	185	8.2
5.0	19.3	8.0	185	7.4	5.0	20.5	8.4	190	7.8	5.0	17.6	9.3	180	7.9
6.0	19.3	8.1	185	7.4	6.0	20.5	8.2	190	7.7	6.0	17.2	9.0	185	7.6
7.0	19.4	8.2	185	7.4	7.0	20.5	8.1	190	7.7	7.0	16.4	8.2	185	7.6
8.0	19.2	8.0	185	7.3	8.0	20.0	8.0	190	7.7	8.0	15.9	7.9	180	7.4
9.0	18.5	7.9	185	7.3	9.0	20.0	8.0	190	7.7	9.0	15.6	7.9	180	7.4
10.0	18.5	7.8	190	7.3	10.0	20.0	7.4	190	7.7	10.0	15.5	7.4	180	7.3
11.0	17.9	7.7	190	7.3	11.0	19.5	7.8	190	7.6	11.0	15.3	7.3	180	7.3
12.0	17.5	7.7	185	7.3	12.0	19.5	7.8	190	7.6					
13.0	17.5	7.8	185	7.4	13.0	19.5	7.8	190	7.8					
14.0	17.4	7.8	180	7.3	14.0	19.5	7.7	190	7.6					
15.0	17.0	7.6	180	7.3	15.0	19.0	7.6	190	7.6					
16.0	16.5	6.5	180	7.1	16.0	19.0	6.6	190	7.6					
17.0	16.1	6.0	190	7.1	17.0	19.0	5.8	190	7.7					

Appendix C. (Continued)

TRM 478.2					TRM 483.4					TRM 490.5				
Depth (m)	Temp. (°C)	DO (74%) (mg/ℓ)	Cond. (μmhos/ cm)	pH	Depth (m)	Temp. (°C)	DO (90%) (mg/ℓ)	Cond. (μmhos/ cm)	pH	Depth (m)	Temp. (°C)	DO (85%) (mg/ℓ)	Cond. (μmhos/ cm)	pH
August 5, 1982														
0.3	27.9	7.2	220	7.6	0.3	27.8	5.2	220	7.3	0.3	26.1	5.3	220	7.3
1.0	27.6	6.8	220	7.4	1.0	27.5	5.0	220	7.1	1.0	26.1	5.0	220	7.2
2.0	27.5	6.1	220	7.3	2.0	27.4	4.9	220	7.1	2.0	26.0	4.8	220	7.1
3.0	27.3	5.1	220	7.1	3.0	27.3	4.9	220	7.1	3.0	25.9	4.8	220	7.1
4.0	27.1	4.9	220	7.1	4.0	26.9	4.9	220	7.1	4.0	25.9	4.7	220	7.1
5.0	27.0	4.8	220	7.0	5.0	26.6	4.9	220	7.1	5.0	25.9	4.7	220	7.1
6.0	26.9	4.8	220	7.0						6.0	25.9	4.7	220	7.1
7.0	26.9	4.7	220	7.0						7.0	25.9	4.7	220	7.1
8.0	26.9	4.6	220	7.0						8.0	25.9	4.7	220	7.0
9.0	26.9	4.6	220	7.0						9.0	25.9	4.7	220	7.0
10.0	26.8	4.6	220	7.0						10.0	25.9	4.6	220	7.0
11.0	26.8	4.6	220	7.0										
12.0	26.8	4.6	220	7.0										
13.0	26.7	4.5	220	6.9										
14.0	26.7	4.5	220	6.9										
0.3	17.6	9.2	200	7.6	0.3	18.1	9.0	200	7.6	0.3	17.6	7.7	205	7.5
1.0	17.5	8.9	200	7.5	1.0	17.9	8.7	200	7.6	1.0	17.0	7.6	205	7.5
2.0	17.3	8.7	200	7.5	2.0	17.9	8.6	200	7.5	2.0	16.8	7.6	205	7.5
3.0	17.2	8.7	200	7.5	3.0	17.5	8.5	200	7.5	3.0	16.6	7.7	205	7.5
4.0	17.1	8.7	200	7.5	4.0	17.5	8.5	200	7.5	4.0	16.6	7.8	205	7.5
5.0	17.1	8.8	200	7.5	5.0	17.5	8.5	200	7.5	5.0	16.6	7.8	205	7.5
6.0	17.1	8.8	200	7.5	6.0	17.5	8.6	200	7.5	6.0	16.6	7.8	205	7.5
7.0	17.0	8.6	200	7.6	7.0	17.5	8.6	200	7.5	7.0	16.6	7.8	205	7.5
8.0	17.0	8.4	200	7.5	8.0	17.5	8.6	200	7.5	8.0	16.6	7.9	205	7.5
9.0	17.0	8.4	200	7.5						9.0	16.6	7.9	205	7.5
10.0	17.0	8.3	200	7.5										
11.0	16.9	8.2	200	7.5										
12.0	16.8	8.1	200	7.5										

Appendix C. (Continued)

TRM 478.2					TRM 483.4					TRM 490.5				
Depth (m)	Temp. (°C)	(74%)	Cond. (µmhos/ cm)	pH	Depth (m)	Temp. (°C)	(90%)	Cond. (µmhos/ cm)	pH	Depth (m)	Temp. (°C)	(85%)	Cond. (µmhos/ cm)	pH
		DO (mg/l)					DO (mg/l)					DO (mg/l)		
13.0	16.7	8.1	200	7.5										
14.0	16.7	8.1	200	7.5										
15.0	16.6	8.1	200	7.5										

* During February 12, 1982, Survey Data Were Collected at TRM 480.8 Instead of 478.2.

APPENDIX D

MEAN, STANDARD DEVIATION, RANGE, AND
COEFFICIENT OF VARIATION OF CELL DENSITIES
FOR EACH ALGAL GENUS IN PHYTOPLANKTON SAMPLES
COLLECTED DURING OPERATIONAL MONITORING (1982),
SEQUOYAH NUCLEAR PLANT, CHICKAMAUGA RESERVOIR

Appendix D. Mean, Standard Deviation, Range, and Coefficient of Variation of Cell Densities
for Each Algal Genus in Phytoplankton Samples Collected During Operational Monitoring
(1982), Sequoyah Nuclear Plant, Chickamauga Reservoir

SEQUOYAH PHYTOPLANKTON CALCULATIONS									
FEBRUARY 1982 - NOVEMBER 1982									
STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER									
----- RIVER=TENNESSEE RIV_MILE=480.8 SAM_LOC=A0 DATE=24FEB82 DEPTH=0.3 -----									
TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
CHLAMYDOMONAS	CHLOROPHYTA	2	3175.0	4490	0	6350	6350	3175.0	141.421
CHLORELLA	CHLOROPHYTA	2	1587.5	2245	0	3175	3175	1587.5	141.421
SCENEDESMUS	CHLOROPHYTA	2	6350.0	8980	0	12700	12700	6350.0	141.421
CYMBELLA	CHRYSOPHYTA	2	1587.5	2245	0	3175	3175	1587.5	141.421
DINOBRYON	CHRYSOPHYTA	2	1587.5	2245	0	3175	3175	1587.5	141.421
GOMPHONEMA	CHRYSOPHYTA	2	3175.0	4490	0	6350	6350	3175.0	141.421
MELOSTRA	CHRYSOPHYTA	2	63500.0	22451	47625	79375	127000	15875.0	35.355
NAVICULA	CHRYSOPHYTA	2	1587.5	2245	0	3175	3175	1587.5	141.421
STEPHANODISCUS	CHRYSOPHYTA	2	3175.0	4490	0	6350	6350	3175.0	141.421
SYNEDRA	CHRYSOPHYTA	2	3175.0	0	3175	3175	6350	0.0	0.000
CYLINDROSFERMUM	CYANOPHYTA	2	63500.0	89803	0	127000	127000	63500.0	141.421
DACTYLOCOCCOPSIS	CYANOPHYTA	2	3175.0	0	3175	3175	6350	0.0	0.000
OSCILLATORIA	CYANOPHYTA	2	76200.0	107763	0	152400	152400	76200.0	141.421

SEQUOYAH PHYTOPLANKTON CALCULATIONS

FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE RIV_MILE=480.8 SAM_LOC=A0 DATE=24FEB82 DEPTH=1 -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ANKISTROODESMUS	CHLOROPHYTA	2	3175.0	0	3175	3175	6350	0.0	0.000
CHLORELLA	CHLOROPHYTA	2	1587.5	2245	0	3175	3175	1587.5	141.421
MICRACTINIUM	CHLOROPHYTA	2	6350.0	8980	0	12700	12700	6350.0	141.421
OOCYSTIS	CHLOROPHYTA	2	6350.0	8980	0	12700	12700	6350.0	141.421
SCENEDESMUS	CHLOROPHYTA	2	6350.0	8980	0	12700	12700	6350.0	141.421
DILOBRYON	CHRYSOPHYTA	2	12700.0	17961	0	25400	25400	12700.0	141.421
MELOSIRA	CHRYSOPHYTA	2	92075.0	17961	79375	104775	184150	12700.0	19.506
STEPHANODISCUS	CHRYSOPHYTA	2	7937.5	2245	6350	9525	15875	1587.5	28.284
SYNEDRA	CHRYSOPHYTA	2	1587.5	2245	0	3175	3175	1587.5	141.421
CYLINDROSPERMUM	CYANOPHYTA	2	76200.0	107763	0	152400	152400	76200.0	141.421
DACTYLOCOCCOPSIS	CYANOPHYTA	2	1587.5	2245	0	3175	3175	1587.5	141.421
TRACHELOMONAS	EUGLENOPHYTA	2	1587.5	2245	0	3175	3175	1587.5	141.421

SEQUOYAH PHYTOPLANKTON CALCULATIONS
FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE RIV_MILE=480.8 SAM_LOC=A0 DATE=24FEB82 DEPTH=3 -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ANKISTRODESMUS	CHLOROPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421
CHLAMYDOMONAS	CHLOROPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421
CHLORELLA	CHLOROPHYTA	2	4762.5	6735.2	0	9525	9525	4762.5	141.421
DINOBRYON	CHRYSOPTHYTA	2	9525.0	4490.1	6350	12700	19050	3175.0	47.140
MELOSIRA	CHRYSOPTHYTA	2	76200.0	4490.1	73025	79375	152400	3175.0	5.893
SYNEDRA	CHRYSOPTHYTA	2	11112.5	11225.3	3175	19050	22225	7937.5	101.015

SEGUOYAH PHYTOPLANKTON CALCULATIONS

FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

RIVER=TENNESSEE

RIV_MILE=480.8

SAM_LOC=A0

DATE=24FEB82

DEPTH=5

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ANKISTRODESMUS	CHLOROPHYTA	2	1587.5	2245.06	0	3175	3175	1587.5	141.421
CHLORELLA	CHLOROPHYTA	2	1587.5	2245.06	0	3175	3175	1587.5	141.421
ACHNANTHES	CHRYSOPTHYTA	2	1587.5	2245.06	0	3175	3175	1587.5	141.421
DINORRYON	CHRYSOPTHYTA	2	4762.5	6735.19	0	9525	9525	4762.5	141.421
MELOSIRA	CHRYSOPTHYTA	2	66675.0	4490.13	63500	69850	133350	3175.0	6.734
SYNEDRA	CHRYSOPTHYTA	2	9525.0	4490.13	6350	12700	19050	3175.0	47.140
DACTYLOCOCCOPSIS	CYANOPHYTA	2	1587.5	2245.06	0	3175	3175	1587.5	141.421

SEQUOYAH PHYTOPLANKTON CALCULATIONS
FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE RIV_MILE=483.4 SAM_LOC=AC DATE=24FEB82 DEPTH=0.3 -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ANKISTRODESMUS	CHLOROPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421
CYMBELLA	CHRYSOPTHYTA	2	3175.0	4490.1	0	6350	6350	3175.0	141.421
DINOBYRON	CHRYSOPTHYTA	2	14287.5	2245.1	12700	15875	28575	1587.5	15.713
MELOSIRA	CHRYSOPTHYTA	2	82550.0	35221.0	57150	107950	165100	25400.0	43.514
SYNEDRA	CHRYSOPTHYTA	2	4762.5	2245.1	3175	6350	9525	1587.5	47.140
DACTYLOCOCCOPSIS	CYANOPHYTA	2	3175.0	4490.1	0	6350	6350	3175.0	141.421

SEQUOYAH PHYTOPLANKTON CALCULATIONS

FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE

RIV_MILE=483.4

SAM_LOC=AC

DATE=24FEB82

DEPTH=1 -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
CHLAMYDOMONAS	CHLOROPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421
ASTERIONELLA	CHRYSOPHYTA	2	19050.0	26940.8	0	38100	38100	19050.0	141.421
MELOSIRA	CHRYSOPHYTA	2	85725.0	4490.1	82550	88900	171450	3175.0	5.238
NAVICULA	CHRYSOPHYTA	2	3175.0	0.0	3175	3175	6350	0.0	0.000
STEPHANODISCUS	CHRYSOPHYTA	2	3175.0	4490.1	0	6350	6350	3175.0	141.421
SYNEDRA	CHRYSOPHYTA	2	3175.0	0.0	3175	3175	6350	0.0	0.000
DACTYLOCOCCOPSIS	CYANOPHYTA	2	3175.0	4490.1	0	6350	6350	3175.0	141.421

SEQUOYAH PHYTOPLANKTON CALCULATIONS
FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE RIV_MILE=483.4 SAM_LOC=AC DATE=24FEB82 DEPTH=3 -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ANKISTRODESMUS	CHLOROPHYTA	2	6350.0	8980.3	0	12700	12700	6350.0	141.421
CHLORELLA	CHLOROPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421
ASTERIONELLA	CHRYSOPHYTA	2	3175.0	4490.1	0	6350	6350	3175.0	141.421
DINOBRYON	CHRYSOPHYTA	2	3175.0	4490.1	0	6350	6350	3175.0	141.421
MFLOSIRA	CHRYSOPHYTA	2	87312.5	6735.2	82550	92075	174625	4762.5	7.714
NAVICULA	CHRYSOPHYTA	2	7937.5	2245.1	6350	9525	15875	1587.5	28.284
STEPHANODISCUS	CHRYSOPHYTA	2	6350.0	4490.1	3175	9525	12700	3175.0	70.711
SYNEDRA	CHRYSOPHYTA	2	6350.0	8980.3	0	12700	12700	6350.0	141.421
DACTYLOCOCCOPSIS	CYANOPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421
SPIRULINA	CYANOPHYTA	2	38100.0	53881.5	0	76200	76200	38100.0	141.421

SEQUOYAH PHYTOPLANKTON CALCULATIONS

FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE

RIV_MILE=483.4

SAM_LOC=AC

DATE=24FEB82

DEPTH=5 -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
CHLAMYDOMONAS	CHLOROPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421
SCENEDESMUS	CHLOROPHYTA	2	9525.0	4490.1	6350	12700	19050	3175.0	47.140
ACHNANTHES	CHRYSOPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421
ASTERIONELLA	CHRYSOPHYTA	2	6350.0	8980.3	0	12700	12700	6350.0	141.421
DINOBRYON	CHRYSOPHYTA	2	7937.5	2245.1	6350	9525	15875	1587.5	28.284
MELOSIRA	CHRYSOPHYTA	2	61912.5	15715.4	50800	73025	123825	11112.5	25.363
STEPHANODISCUS	CHRYSOPHYTA	2	7937.5	2245.1	6350	9525	15875	1587.5	28.284
SYNEDRA	CHRYSOPHYTA	2	9525.0	4490.1	6350	12700	19050	3175.0	47.140
CRYPTOMONAS	CRYPTOPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421
DACTYLOCOCCOPSIS	CYANOPHYTA	2	3175.0	4490.1	0	6350	6350	3175.0	141.421

SEQUOYAH PHYTOPLANKTON CALCULATIONS

FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE RIV_MILE=490.5 SAM_LOC=AQ DATE=24FEB82 DEPTH=0.3 -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ANKISTRODESMUS	CHLOROPHYTA	2	11112.5	6735.2	6350	15875	22225	4762.5	60.6092
CHLORELLA	CHLOROPHYTA	2	4762.5	2245.1	3175	6350	9525	1587.5	47.1405
ASTERIONELLA	CHRYSOPHYTA	2	41275.0	13470.4	31750	50800	82550	9525.0	32.6357
MELOSIRA	CHRYSOPHYTA	2	79375.0	4490.1	76200	82550	158750	3175.0	5.6569
STEPHANODISCUS	CHRYSOPHYTA	2	6350.0	0.0	6350	6350	12700	0.0	0.0000
SYNEDRA	CHRYSOPHYTA	2	14287.5	2245.1	12700	15875	28575	1587.5	15.7135

SEQUOYAH PHYTOPLANKTON CALCULATIONS
FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE RIV_MILE=490.5 SAM_LOC=AQ DATE=24FEB82 DEPTH=1 -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ANKISTRODESMUS	CHLOROPHYTA	2	11112.5	2245.1	9525	12700	22225	1587.5	20.203
CHLORELLA	CHLOROPHYTA	2	3175.0	4490.1	0	6350	6350	3175.0	141.421
SCENEDESMUS	CHLOROPHYTA	2	4762.5	6735.2	0	9525	9525	4762.5	141.421
ASTERIONELLA	CHRYSOPTHYTA	2	25400.0	17960.5	12700	36100	50800	12700.0	70.711
DINOBRYON	CHRYSOPTHYTA	2	4762.5	6735.2	0	9525	9525	4762.5	141.421
MELOSIRA	CHRYSOPTHYTA	2	84137.5	2245.1	82550	85725	168275	1587.5	2.668
NAVICULA	CHRYSOPTHYTA	2	4762.5	2245.1	3175	6350	9525	1587.5	47.140
STEPHANODISCUS	CHRYSOPTHYTA	2	6350.0	4490.1	3175	9525	12700	3175.0	70.711
SYNEDRA	CHRYSOPTHYTA	2	6350.0	0.0	6350	6350	12700	0.0	0.000

SEQUOYAH PHYTOPLANKTON CALCULATIONS
FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE RIV_MILE=490.5 SAM_LOC=AQ DATE=24FEB82 DEPTH=3 -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ANKISTRODESMUS	CHLOROPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421
CHLORELLA	CHLOROPHYTA	2	3175.0	0.0	3175	3175	6350	0.0	0.000
CRUCIGENIA	CHLOROPHYTA	2	4762.5	6735.2	0	9525	9525	4762.5	141.421
SCENEDESMUS	CHLOROPHYTA	2	3175.0	4490.1	0	6350	6350	3175.0	141.421
ASTERIONELLA	CHRYSOPHYTA	2	20637.5	6735.2	15875	25400	41275	4762.5	32.636
CYMBELLA	CHRYSOPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421
DINOBRYON	CHRYSOPHYTA	2	3175.0	4490.1	0	6350	6350	3175.0	141.421
MEIOSIRA	CHRYSOPHYTA	2	88900.0	35921.0	63500	114300	177800	25400.0	40.406
STEPHANODISCUS	CHRYSOPHYTA	2	6350.0	0.0	6350	6350	12700	0.0	0.000
SYNEURA	CHRYSOPHYTA	2	11112.5	2245.1	9525	12700	22225	1587.5	20.203

SEQUOYAH PHYTOPLANKTON CALCULATIONS

FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

RIVER=TENNESSEE

RIV_MILE=490.5

SAM_LOC=AQ

DATE=24FEB82

DEPTH=5

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ACTINASTRUM	CHLOROPHYTA	2	23812.5	33676.0	0	47625	47625	23812.5	141.421
ANKISTRODESMUS	CHLOROPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421
CHLORELLA	CHLOROPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421
SCENEDESMUS	CHLOROPHYTA	2	3175.0	4490.1	0	6350	6350	3175.0	141.421
DINOBRYON	CHLOROPHYTA	2	3175.0	4490.1	0	6350	6350	3175.0	141.421
MELOSIRA	CHRYSOPHYTA	2	61912.5	6735.2	57150	66675	123825	4762.5	10.879
STEPHANODISCUS	CHRYSOPHYTA	2	3175.0	0.0	3175	3175	6350	0.0	0.000
SYNEDRA	CHRYSOPHYTA	2	4762.5	2245.1	3175	6350	9525	1587.5	47.140

SEQUOYAH PHYTOPLANKTON CALCULATIONS
FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE RIV_MILE=478.2 SAM_LOC=A0 DATE=03MAY82 DEPTH=0.3 -----									
TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ANKISTRODESMUS	CHLOROPHYTA	2	50800	4490	47625	53975	101600	3175.0	8.839
CHLAMYDOMONAS	CHLOROPHYTA	2	1588	2245	0	3175	3175	1587.5	141.421
CHLORELLA	CHLOROPHYTA	2	11113	15715	0	22225	22225	11112.5	141.421
CHODATELLA	CHLOROPHYTA	2	3175	4490	0	6350	6350	3175.0	141.421
EUASTRUM	CHLOROPHYTA	2	63500	89803	0	127000	127000	63500.0	141.421
EUDORINA	CHLOROPHYTA	2	79375	112253	0	158750	158750	79375.0	141.421
SCENEDESMUS	CHLOROPHYTA	2	12700	8980	6350	19050	25400	6350.0	70.711
ASTERIONELLA	CHRYSOPHYTA	2	22225	4490	19050	25400	44450	3175.0	20.203
DINOBRYON	CHRYSOPHYTA	2	20638	29186	0	41275	41275	20637.5	141.421
MELOSIRA	CHRYSOPHYTA	2	53975	0	53975	53975	107950	0.0	0.000
RHIZOSOLENIA	CHRYSOPHYTA	2	1588	2245	0	3175	3175	1587.5	141.421
STEPHANODISCUS	CHRYSOPHYTA	2	6350	0	6350	6350	12700	0.0	0.000
SYNEDRA	CHRYSOPHYTA	2	9525	0	9525	9525	19050	0.0	0.000
CHROOMONAS	CRYPTOPHYTA	2	61913	2245	60325	63500	123825	1587.5	3.626
CRYPTOMONAS	CRYPTOPHYTA	2	20638	2245	19050	22225	41275	1587.5	10.579
ANACYSTIS	CYANOPHYTA	2	106363	11225	98425	114300	212725	7937.5	10.554
EUGLENA	EUGLENOPHYTA	2	1588	2245	0	3175	3175	1587.5	141.421
TRACHELOMONAS	EUGLENOPHYTA	2	1588	2245	0	3175	3175	1587.5	141.421

SEQUOYAH PHYTOPLANKTON CALCULATIONS

FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE RIV_MILE=478.2 SAM_LOC=A0 DATE=03MAY82 DEPTH=1 -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ANKISTRODESMUS	CHLOROPHYTA	2	44450	8980	36100	50800	88900	6350.0	20.203
CHLAMYDOMONAS	CHLOROPHYTA	2	6350	8980	0	12700	12700	6350.0	141.421
CHLORELLA	CHLOROPHYTA	2	4763	6735	0	9525	9525	4762.5	141.421
EUASTRUM	CHLOROPHYTA	2	76200	107763	0	152400	152400	76200.0	141.421
EUDORINA	CHLOROPHYTA	2	58738	83067	0	117475	117475	58737.5	141.421
ASTERIONELLA	CHRYSOPTHYTA	2	15875	13470	6350	25400	31750	9525.0	84.853
CYMBELLA	CHRYSOPTHYTA	2	1588	2245	0	3175	3175	1587.5	141.421
DIATOMA	CHRYSOPTHYTA	2	1588	2245	0	3175	3175	1587.5	141.421
DINOBRYON	CHRYSOPTHYTA	2	9525	13470	0	19050	19050	9525.0	141.421
MELOSIRA	CHRYSOPTHYTA	2	79375	17961	66675	92075	158750	12700.0	22.627
STEPHANODISCUS	CHRYSOPTHYTA	2	1588	2245	0	3175	3175	1587.5	141.421
SYNEDRA	CHRYSOPTHYTA	2	9525	4490	6350	12700	19050	3175.0	47.143
CHROOMONAS	CRYPTOPHYTA	2	95250	26941	76200	114300	190500	19050.0	28.284
CRYPTOMONAS	CRYPTOPHYTA	2	23813	15715	12700	34925	47625	11112.5	65.997
ANACYSTIS	CYANOPHYTA	2	122238	24696	104775	139700	244475	17462.5	20.203
DACTYLOCOCCOPSIS	CYANOPHYTA	2	3175	4490	0	6350	6350	3175.0	141.421
MERISMOPEDIA	CYANOPHYTA	2	36513	2245	34925	38100	73025	1587.5	6.149
EUGLENA	EUGLENOPHYTA	2	3175	4490	0	6350	6350	3175.0	141.421
TRACHELOMONAS	EUGLENOPHYTA	2	1588	2245	0	3175	3175	1587.5	141.421

SEQUOYAH PHYTOPLANKTON CALCULATIONS
FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE RIV_MILE=478.2 SAM_LOC=A0 DATE=03MAY82 DEPTH=3 -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ANKISTRODESMUS	CHLOROPHYTA	2	44450	8980.3	38100	50800	88900	6350.0	20.203
CHLAMYDOMONAS	CHLOROPHYTA	2	20638	2245.1	19050	22225	41275	1587.5	10.879
CHLORELLA	CHLOROPHYTA	2	3175	4490.1	0	6350	6350	3175.0	141.421
EUDORINA	CHLOROPHYTA	2	130175	8980.3	123825	136525	260350	6350.0	6.899
SCENEDESMUS	CHLOROPHYTA	2	6350	8980.3	0	12700	12700	6350.0	141.421
ASTERIONELLA	CHRYSOPHYTA	2	22225	4490.1	19050	25400	44450	3175.0	20.203
CYMBELLA	CHRYSOPHYTA	2	7938	2245.1	6350	9525	15875	1587.5	28.284
DIATOMA	CHRYSOPHYTA	2	1588	2245.1	0	3175	3175	1587.5	141.421
GOMPHONEMA	CHRYSOPHYTA	2	3175	4490.1	0	6350	6350	3175.0	141.421
MELOSIRA	CHRYSOPHYTA	2	123825	22450.6	107950	139700	247650	15875.0	18.131
NAVICULA	CHRYSOPHYTA	2	14288	6735.2	9525	19050	28575	4762.5	47.140
RHIZOSOLENIA	CHRYSOPHYTA	2	1588	2245.1	0	3175	3175	1587.5	141.421
STEPHANODISCUS	CHRYSOPHYTA	2	12700	8980.3	6350	19050	25400	6350.0	70.711
SYNEDRA	CHRYSOPHYTA	2	19050	8980.3	12700	25400	38100	6350.0	47.140
CHROOMONAS	CRYPTOPHYTA	2	98425	17960.5	85725	111125	196850	12700.0	18.248
CRYPTOMONAS	CRYPTOPHYTA	2	23813	6735.2	19050	28575	47625	4762.5	28.284
ANACYSTIS	CYANOPHYTA	2	103188	24695.7	85725	120650	206375	17462.5	23.933
DACTYLOCOCCOPSIS	CYANOPHYTA	2	6350	0.0	6350	6350	12700	0.0	0.000
MERISMOPEDIA	CYANOPHYTA	2	12700	17960.5	0	25400	25400	12700.0	141.421
EUGLENA	EUGLENOPHYTA	2	3175	4490.1	0	6350	6350	3175.0	141.421
TRACHELOMONAS	EUGLENOPHYTA	2	1588	2245.1	0	3175	3175	1587.5	141.421

SEQUOYAH PHYTOPLANKTON CALCULATIONS

FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE RIV_MILE=478.2 SAM_LOC=A0 DATE=03MAY82 DEPTH=5 -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ANKISTRODESMUS	CHLOROPHYTA	2	47625.0	13470.4	38100	57150	95250	9525.0	28.284
CHLAMYDOMONAS	CHLOROPHYTA	2	11112.5	6735.2	6350	15875	22225	4762.5	66.609
CHLORELLA	CHLOROPHYTA	2	4762.5	2245.1	3175	6350	9525	1587.5	47.140
EUDORINA	CHLOROPHYTA	2	66675.0	4490.1	63500	69850	133350	3175.0	6.734
SCENEDESMUS	CHLOROPHYTA	2	6350.0	8980.3	0	12700	12700	6350.0	141.421
ASTERIONELLA	CHRYSOPTHYTA	2	12700.0	17960.5	0	25400	25400	12700.0	141.421
CYMBELLA	CHRYSOPTHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421
MELOSIRA	CHRYSOPTHYTA	2	12700.0	4490.1	9525	15875	25400	3175.0	35.355
STEPHANODISCUS	CHRYSOPTHYTA	2	3175.0	4490.1	0	6350	6350	3175.0	141.421
SYNEDRA	CHRYSOPTHYTA	2	22225.0	0.0	22225	22225	44450	0.0	0.000
CHROOMONAS	CRYPTOPHYTA	2	61912.5	6735.2	57150	66675	123825	4762.5	10.879
CRYPTOMONAS	CRYPTOPHYTA	2	12700.0	4490.1	9525	15875	25400	3175.0	35.355
DACTYLOCOCCOPSIS	CYANOPHYTA	2	3175.0	4490.1	0	6350	6350	3175.0	141.421

SEQUOYAH PHYTOPLANKTON CALCULATIONS

FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE RIV_MILE=483.4 SAM_LOC=AC DATE=03MAY82 DEPTH=0.3 -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ANKISTRODESMUS	CHLOROPHYTA	2	15875	4490	12700	19050	31750	3175	28.264
CHLORELLA	CHLOROPHYTA	2	1588	2245	0	3175	3175	1588	141.421
CHODATELLA	CHLOROPHYTA	2	1588	2245	0	3175	3175	1588	141.421
EUASTRUM	CHLOROPHYTA	2	185738	262672	0	371475	371475	185738	141.421
EUDORINA	CHLOROPHYTA	2	209550	296348	0	419100	419100	209550	141.421
ASTERIONELLA	CHRYSOPHYTA	2	19050	4490	15875	22225	38100	3175	23.570
MELOSIRA	CHRYSOPHYTA	2	96838	29186	76200	117475	193675	20638	30.135
NAVICULA	CHRYSOPHYTA	2	3175	4490	0	6350	6350	3175	141.421
NITZSCHIA	CHRYSOPHYTA	2	1588	2245	0	3175	3175	1588	141.421
RHIZOLENIA	CHRYSOPHYTA	2	3175	4490	0	6350	6350	3175	141.421
STEPHANODISCUS	CHRYSOPHYTA	2	1588	2245	0	3175	3175	1588	141.421
SYNEDRA	CHRYSOPHYTA	2	12700	4490	9525	15875	25400	3175	35.355
CHROOMONAS	CRYPTOPHYTA	2	90488	24696	73025	107950	180975	17463	27.292
CRYPTOMONAS	CRYPTOPHYTA	2	39688	20206	25400	53975	79375	14288	50.912
ANACYSTIS	CYANOPHYTA	2	100013	51636	63500	136525	200025	36513	51.630
EUGLENA	EUGLENOPHYTA	2	4763	2245	3175	6350	9525	1588	47.140
TRACHELOMONAS	EUGLENOPHYTA	2	1588	2245	0	3175	3175	1588	141.421

SEQUOYAH PHYTOPLANKTON CALCULATIONS

FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE RIV_MILE=483.4 SAM_LOC=AC DATE=03MAY82 DEPTH=1 -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ANKISTRODESMUS	CHLOROPHYTA	2	53975	4490.1	50800	57150	107950	3175.0	8.319
CHLAMYDOMONAS	CHLOROPHYTA	2	1588	2245.1	0	3175	3175	1587.5	141.421
CHLORELLA	CHLOROPHYTA	2	1588	2245.1	0	3175	3175	1587.5	141.421
DICTYOSPHAERIUM	CHLOROPHYTA	2	11113	15715.4	0	22225	22225	11112.5	141.421
EUDORINA	CHLOROPHYTA	2	211138	24695.7	193675	228600	422275	17462.5	11.697
SCENEDESMUS	CHLOROPHYTA	2	15875	4490.1	12700	19050	31750	3175.0	26.284
ASTERIONELLA	CHRYSOPHYTA	2	6350	8980.3	0	12700	12700	6350.0	141.421
GOMPHONEMA	CHRYSOPHYTA	2	1588	2245.1	0	3175	3175	1587.5	141.421
MELOSIRA	CHRYSOPHYTA	2	123825	26940.8	104775	142875	247650	19050.0	21.757
NAVICULA	CHRYSOPHYTA	2	6350	4490.1	3175	9525	12700	3175.0	70.711
STEPHANODISCUS	CHRYSOPHYTA	2	3175	0.0	3175	3175	6350	0.0	0.000
SYNEDRA	CHRYSOPHYTA	2	44450	22450.6	28575	60325	66900	15875.0	50.558
CHROOMONAS	CRYPTOPHYTA	2	123825	4490.1	120650	127000	247650	3175.0	3.626
CRYPTOMONAS	CRYPTOPHYTA	2	74613	15715.4	63500	85725	149225	11112.5	21.063
ANACYSTIS	CYANOPHYTA	2	150813	60616.7	107950	193675	301625	42862.5	40.193
MERISMOPEDIA	CYANOPHYTA	2	30163	42656.2	0	60325	60325	30162.5	141.421
EUGLENA	EUGLENOPHYTA	2	12700	8980.3	6350	19050	25400	6350.0	70.711
TRACHELOMONAS	EUGLENOPHYTA	2	4763	2245.1	3175	6350	9525	1587.5	47.140

SEQUOYAH PHYTOPLANKTON CALCULATIONS

FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE RIV_MILE=483.4 SAM_LOC=AC DATE=03MAY82 DEPTH=3 -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ANKISTRODESMUS	CHLOROPHYTA	2	42863	2245.1	41275	44450	85725	1587.5	5.238
CHLAMYDOMONAS	CHLOROPHYTA	2	3175	4490.1	0	6350	6350	3175.0	141.421
CHLORELLA	CHLOROPHYTA	2	3175	0.0	3175	3175	6350	0.0	0.000
CHODATELLA	CHLOROPHYTA	2	1588	2245.1	0	3175	3175	1587.5	141.421
DICTYOSPHAERIUM	CHLOROPHYTA	2	4763	6735.2	0	9525	9525	4762.5	141.421
EUDORINA	CHLOROPHYTA	2	123825	35921.0	98425	149225	247650	25460.0	29.010
OOCYSTIS	CHLOROPHYTA	2	6350	8980.3	0	12700	12700	6350.0	141.421
ASTERIONELLA	CHRYSOPHYTA	2	36513	20205.6	22225	56800	73025	14287.5	55.339
DIATOMA	CHRYSOPHYTA	2	1588	2245.1	0	3175	3175	1587.5	141.421
DINOBRYON	CHRYSOPHYTA	2	4763	6735.2	0	9525	9525	4762.5	141.421
MELOSIRA	CHRYSOPHYTA	2	65098	24695.7	47625	82550	130175	17462.5	37.942
NAVICULA	CHRYSOPHYTA	2	6350	4490.1	3175	9525	12700	3175.0	70.711
RHIZOSOLENIA	CHRYSOPHYTA	2	1588	2245.1	0	3175	3175	1587.5	141.421
SYNEDRA	CHRYSOPHYTA	2	22225	17960.5	9525	34925	44450	12700.0	80.812
CHROMONAS	CRYPTOPHYTA	2	93663	15715.4	82550	104775	187325	11112.5	16.779
CRYPTOMONAS	CRYPTOPHYTA	2	28575	17960.5	15875	41275	57150	12700.0	62.854
ANACYSTIS	CYANOPHYTA	2	103188	2245.1	101600	104775	206375	1587.5	2.176
EUGLENA	EUGLENOPHYTA	2	1588	2245.1	0	3175	3175	1587.5	141.421

SEQUOYAH PHYTOPLANKTON CALCULATIONS

FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

RIVER=TENNESSEE

RIV_MILE=483.4

SAM_LOC=AC

DATE=03MAY82

DEPTH=5

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ANKISTRODESMUS	CHLOROPHYTA	2	47625	26940.8	28575	66675	95250	19050.0	56.565
CHLORELLA	CHLOROPHYTA	2	1588	2245.1	0	3175	3175	1587.5	141.421
CHODATELLA	CHLOROPHYTA	2	4763	6735.2	0	9525	9525	4762.5	141.421
EUDORINA	CHLOROPHYTA	2	180975	17960.5	168275	193675	361950	12700.0	9.924
SCENEDESMUS	CHLOROPHYTA	2	6350	0.0	6350	6350	12700	0.0	0.000
ASTERIONELLA	CHRYSOPTOPHYTA	2	61913	11225.3	53975	69850	123825	7937.5	18.131
COCCONEIS	CHRYSOPTOPHYTA	2	1588	2245.1	0	3175	3175	1587.5	141.421
CYMBELLA	CHRYSOPTOPHYTA	2	1588	2245.1	0	3175	3175	1587.5	141.421
MELOSIRA	CHRYSOPTOPHYTA	2	190500	13470.4	180975	200025	381000	9525.0	7.071
NAVICULA	CHRYSOPTOPHYTA	2	4763	6735.2	0	9525	9525	4762.5	141.421
RHIZOSOLENIA	CHRYSOPTOPHYTA	2	1588	2245.1	0	3175	3175	1587.5	141.421
STEPHANODISCUS	CHRYSOPTOPHYTA	2	3175	0.0	3175	3175	6350	0.0	0.000
SYNEDRA	CHRYSOPTOPHYTA	2	25400	0.0	25400	25400	50800	0.0	0.000
CHROOMONAS	CRYPTOPHYTA	2	82550	4490.1	79375	85725	165100	3175.0	5.439
CRYPTOMONAS	CRYPTOPHYTA	2	36513	11225.3	28575	44450	73025	7937.5	30.744
ANACYSTIS	CYANOPHYTA	2	107950	62861.8	63500	152400	215900	44450.0	58.232
MERISMOPEDIA	CYANOPHYTA	2	12700	17960.5	0	25400	25400	12700.0	141.421
EUGLENA	EUGLENOPHYTA	2	1588	2245.1	0	3175	3175	1587.5	141.421
TRACHELOMONAS	EUGLENOPHYTA	2	1588	2245.1	0	3175	3175	1587.5	141.421

SEQUOYAH PHYTOPLANKTON CALCULATIONS
FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE RIV_MILE=490.5 SAM_LOC=AQ DATE=03MAY82 DEPTH=0.3 -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ANKISTRODESMUS	CHLOROPHYTA	2	41275	0	41275	41275	82550	0.0	0.000
CHLAMYDOMONAS	CHLOROPHYTA	2	22225	0	22225	22225	44450	0.0	0.000
CHLOPELLA	CHLOROPHYTA	2	11113	6735	6350	15875	22225	4762.5	60.609
DICTYOSPHAERIUM	CHLOROPHYTA	2	49213	24696	31750	66675	98425	17462.5	50.142
EUDORINA	CHLOROPHYTA	2	1979613	118988	1895475	2063750	3959225	84137.5	6.011
PANDORINA	CHLOROPHYTA	2	25400	35921	0	50800	50800	25400.0	141.421
SCENEDESMUS	CHLOROPHYTA	2	22225	4490	19050	25400	44450	3175.0	20.203
TREUBARIA	CHLOROPHYTA	2	1588	2245	0	3175	3175	1587.5	141.421
ASTERIONELLA	CHRYSOPTHYTA	2	36513	20206	22225	50800	73025	14287.5	55.339
DIATOMA	CHRYSOPTHYTA	2	1588	2245	0	3175	3175	1587.5	141.421
DICHOTOMOCOCCUS	CHRYSOPTHYTA	2	25400	35921	0	50800	50800	25400.0	141.421
DINOBYRON	CHRYSOPTHYTA	2	428625	67352	381300	476250	857250	47625.0	15.713
MELOSIRA	CHRYSOPTHYTA	2	23813	6735	19050	28575	47625	4762.5	28.284
SYNEDRA	CHRYSOPTHYTA	2	15875	4490	12700	19050	31750	3175.0	28.284
CHROOMONAS	CRYPTOPHYTA	2	71439	29186	50800	92075	142875	20637.5	40.855
CRYPTOMONAS	CRYPTOPHYTA	2	19050	13470	9525	28575	38100	9525.0	70.711
ANACYSTIS	CYANOPHYTA	2	296863	24696	279400	314325	593725	17462.5	8.319
APHANOCAPSA	CYANOPHYTA	2	95250	134704	0	190500	190500	95250.0	141.421
GLOEOTHECE	CYANOPHYTA	2	225425	94293	158750	292100	450850	66675.0	41.829
MERISMOPEDIA	CYANOPHYTA	2	82550	44901	50800	114300	165100	31750.0	54.393
OSCILLATORIA	CYANOPHYTA	2	152400	71842	101600	203200	304800	50800.0	47.140
EUGLENA	EUGLENOPHYTA	2	6350	4490	3175	9525	12700	3175.0	70.711
TRACHELOMONAS	EUGLENOPHYTA	2	3175	0	3175	3175	6350	0.0	0.000

SEQUOYAH PHYTOPLANKTON CALCULATIONS
FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE RIV_MILE=490.5 SAM_LOC=AQ DATE=03MAY82 DEPTH=1 -----									
TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ANKISTRODESMUS	CHLOROPHYTA	2	49213	2245	47625	50800	98425	1588	4.562
CHLAMYDOMONAS	CHLOROPHYTA	2	15875	8980	9525	22225	31750	6350	56.569
CHLORELLA	CHLOROPHYTA	2	7938	2245	6350	9525	15875	1588	28.284
DICTYOSPHAERIUM	CHLOROPHYTA	2	22225	31431	0	44450	44450	22225	141.421
EUDORINA	CHLOROPHYTA	2	1778000	188585	1644650	1911350	3556000	133350	10.607
KIRCHNERIELLA	CHLOROPHYTA	2	1588	2245	0	3175	3175	1588	141.421
PANDORINA	CHLOROPHYTA	2	25400	35921	0	50800	50800	25400	141.421
SCENEDESMUS	CHLOROPHYTA	2	3175	4490	0	6350	6350	3175	141.421
ASTERIONELLA	CHRYSOPTHYTA	2	12700	17961	0	25400	25400	12700	141.421
DIATOMA	CHRYSOPTHYTA	2	306388	433297	0	612775	612775	306388	141.421
DINOBRYON	CHRYSOPTHYTA	2	339725	480444	0	679450	679450	339725	141.421
MELOSIRA	CHRYSOPTHYTA	2	44450	13470	34925	53975	88900	9525	30.305
SYNEDRA	CHRYSOPTHYTA	2	36513	2245	34925	38100	73025	1588	6.149
CHROOMONAS	CRYPTOPHYTA	2	157163	24696	139700	174625	314325	17463	15.713
CRYPTOMONAS	CRYPTOPHYTA	2	79375	0	79375	79375	158750	0	0.000
ANACYSTIS	CYANOPHYTA	2	498475	13470	488950	508000	996950	9525	2.702
APHANOCAPSA	CYANOPHYTA	2	100013	33676	76200	123825	200025	23813	33.672
DACYLOCOCOPSIS	CYANOPHYTA	2	3175	4490	0	6350	6350	3175	141.421
GLOEOCAPSA	CYANOPHYTA	2	130175	184095	0	260350	260350	130175	141.421
GLOEOTHECE	CYANOPHYTA	2	217488	145929	114300	320675	434975	103188	67.098
MERISMOPEDIA	CYANOPHYTA	2	71438	6735	66675	76200	142875	4763	9.428
OSCILLATORIA	CYANOPHYTA	2	63500	89803	0	127000	127000	63500	141.421

SEQUOYAH PHYTOPLANKTON CALCULATIONS

FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE RIV_MILE=490.5 SAM_LOC=AQ DATE=03MAY82 DEPTH=3 -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ACTINASTRUM	CHLOROPHYTA	2	9525	13470	0	19050	19050	9525	141.421
ANKISTRODESMUS	CHLOROPHYTA	2	58738	11225	50800	66675	117475	7938	19.111
CHLAMYDOMONAS	CHLOROPHYTA	2	28575	13470	19050	38100	57150	9525	47.140
CHLORELLA	CHLOROPHYTA	2	9525	0	9525	9525	19050	0	0.000
CHODATELLA	CHLOROPHYTA	2	1588	2245	0	3175	3175	1588	141.421
DICTYOSPHAERIUM	CHLOROPHYTA	2	19050	26941	0	38100	38100	19050	141.421
EUDORINA	CHLOROPHYTA	2	173813	204301	1593850	1882775	3476625	144463	11.753
OOCYSTIS	CHLOROPHYTA	2	3175	4490	0	6350	6350	3175	141.421
SCENEDESMUS	CHLOROPHYTA	2	9525	4490	6350	12700	19050	3175	47.140
ASTERIONELLA	CHRYSOPHYTA	2	47625	17961	34925	60325	95250	12700	37.712
CHAETOCEROS	CHRYSOPHYTA	2	9525	13470	0	19050	19050	9525	141.421
DINOBYRON	CHRYSOPHYTA	2	671513	29186	650875	692150	1343025	27638	4.346
MELOSIRA	CHRYSOPHYTA	2	79375	49391	44450	114300	158750	34925	62.225
RHIZOSOLENIA	CHRYSOPHYTA	2	12700	8980	6350	19050	25400	6350	70.711
STEPHANODISCUS	CHRYSOPHYTA	2	1588	2245	0	3175	3175	1588	141.421
SYNEDRA	CHRYSOPHYTA	2	26988	2245	25400	28575	53975	1588	8.319
CHROOMONAS	CRYPTOPHYTA	2	198438	15715	187325	209550	396875	11113	7.920
CRYPTOMONAS	CRYPTOPHYTA	2	96488	6735	85725	95250	180975	4763	7.443
ANACYSTIS	CYANOPHYTA	2	412750	58372	371475	454025	825500	41275	14.142
APHANOCAPSA	CYANOPHYTA	2	146050	26941	127000	165100	292100	19050	18.446
DACTYLOCOCCOPSIS	CYANOPHYTA	2	3175	4490	0	6350	6350	3175	141.421
GLOEOTHECE	CYANOPHYTA	2	346075	49391	311150	381000	692150	34925	14.272
MERISMOPEDIA	CYANOPHYTA	2	88900	17961	76200	101600	177800	12700	20.283
EUGLENA	EUGLENOPHYTA	2	7938	2245	6350	9525	15875	1588	28.284
TRACHELOMONAS	EUGLENOPHYTA	2	3175	4490	0	6350	6350	3175	141.421

SEQUOYAH PHYTOPLANKTON CALCULATIONS

FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE RIV_MILE=490.5 SAM_LOC=AQ DATE=03MAY82 DEPTH=5 -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ACTINASTRUM	CHLOROPHYTA	2	61913	6735	57150	66675	123825	4763	10.679
ANKISTRODESMUS	CHLOROPHYTA	2	44450	8980	38100	50800	88900	6350	20.203
CHLAMYDOMONAS	CHLOROPHYTA	2	30163	6735	25400	34925	60325	4763	22.330
CHLORELLA	CHLOROPHYTA	2	25490	8980	19050	31750	50800	6350	35.355
DICTYOSPHAERIUM	CHLOROPHYTA	2	65088	29186	44450	85725	130175	20638	44.841
EUASTRUM	CHLOROPHYTA	2	1149350	233487	984250	1314450	2298700	165100	20.315
SCENEDESMUS	CHLOROPHYTA	2	9525	4490	6350	12700	19050	3175	47.140
ACHNANTHES	CHRYSOPTHYTA	2	1598	2245	0	3175	3175	1588	141.421
ASTERIONELLA	CHRYSOPTHYTA	2	61913	67617	19050	104775	123825	42863	97.907
DINOBYRON	CHRYSOPTHYTA	2	196850	44901	165100	228600	393700	31750	22.810
MELOSIRA	CHRYSOPTHYTA	2	112713	20206	98425	127000	225425	14288	17.927
NAVICULA	CHRYSOPTHYTA	2	6350	8980	0	12700	12700	6350	141.421
RHIZOSOLENIA	CHRYSOPTHYTA	2	12700	4490	9525	15875	25400	3175	35.355
STEPHANODISCUS	CHRYSOPTHYTA	2	4763	6735	0	9525	9525	4763	141.421
SYNEDRA	CHRYSOPTHYTA	2	50800	13470	41275	60325	101600	9525	26.517
CHROOMONAS	CRYPTOPHYTA	2	174625	40411	146050	203200	349250	28575	23.142
CRYPTOMONAS	CRYPTOPHYTA	2	68263	6735	63500	73025	136525	4763	9.867
ANACYSTIS	CYANOPHYTA	2	396875	71842	346075	447675	793750	50800	18.102
APHANOCAPSA	CYANOPHYTA	2	23813	33676	0	47625	47625	23813	141.421
APHANOTHECE	CYANOPHYTA	2	47625	67352	0	95250	95250	47625	141.421
DACTYLOCOCCOPSIS	CYANOPHYTA	2	19050	17961	6350	31750	38100	12700	94.281
GLOEOTHECE	CYANOPHYTA	2	138113	24696	120650	155575	276225	17463	17.881
MERISMOPEDIA	CYANOPHYTA	2	112713	20206	98425	127000	225425	14288	17.927
EUGLENA	EUGLENOPHYTA	2	4763	6735	0	9525	9525	4763	141.421
TRACHELOMONAS	EUGLENOPHYTA	2	3175	4490	0	6350	6350	3175	141.421

SEQUOYAH PHYTOPLANKTON CALCULATIONS
FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

RIVER=TENNESSEE RIV_MILE=478.2 SAM_LOC=A0 DATE=03AUG82 DEPTH=0.3

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ACTINASTRUM	CHLOROPHYTA	2	41275	4490	38100	44450	82550	3175	10.879
ANKISTRODESMUS	CHLOROPHYTA	2	7938	2245	6350	9525	15875	1588	28.264
CHLAMYDOMONAS	CHLOROPHYTA	2	33338	2245	31750	34925	66675	1588	6.734
CHLORELLA	CHLOROPHYTA	2	107950	13470	98425	117475	215900	9525	12.476
CHODATELLA	CHLOROPHYTA	2	22225	31431	0	44450	44450	22225	141.421
COELASTRUM	CHLOROPHYTA	2	79375	26941	66325	98425	158750	19050	33.941
CRUCIGENIA	CHLOROPHYTA	2	57150	8980	50800	63500	114300	6350	15.713
DICTYOSPHAERIUM	CHLOROPHYTA	2	68263	51636	31750	104775	136525	36513	75.644
ELAKATOTHRIX	CHLOROPHYTA	2	3175	4490	0	6350	6350	3175	141.421
EUASTRUM	CHLOROPHYTA	2	12700	0	12700	12700	25400	0	0.000
FRANCEIA	CHLOROPHYTA	2	1588	2245	0	3175	3175	1588	141.421
GOLENKINIA	CHLOROPHYTA	2	44450	13470	34925	53975	88900	9525	30.305
GONIUM	CHLOROPHYTA	2	25400	35921	0	50800	50800	25400	141.421
KIRCHNERIELLA	CHLOROPHYTA	2	90488	38166	63500	117475	180975	26948	42.178
MICRACTINIUM	CHLOROPHYTA	2	79375	8980	73025	85725	158750	6350	11.314
MOUGEOTIA	CHLOROPHYTA	2	17463	24696	0	34925	34925	17463	141.421
OOCYSTIS	CHLOROPHYTA	2	12700	17961	0	25400	25400	12700	141.421
PANDORINA	CHLOROPHYTA	2	50800	71842	0	101600	101600	50800	141.421
PEDIASTRUM	CHLOROPHYTA	2	63500	17961	50800	76200	127000	12700	28.264
PLATYDORINA	CHLOROPHYTA	2	127000	107763	50800	203200	254000	76200	84.853
PTEROMONAS	CHLOROPHYTA	2	9525	8980	3175	15875	19050	6350	94.281
SCENEDESMUS	CHLOROPHYTA	2	457200	8980	450850	463550	914400	6350	1.964
SCHROEDERIA	CHLOROPHYTA	2	11113	6735	6350	15875	22225	4763	60.609
STAUSTRUM	CHLOROPHYTA	2	1588	2245	0	3175	3175	1588	141.421
TETRAEDRON	CHLOROPHYTA	2	17463	2245	15875	19050	34925	1588	12.956
TETRASTRUM	CHLOROPHYTA	2	6350	8980	0	12700	12700	6350	141.421
TREUBARIA	CHLOROPHYTA	2	7938	11225	0	15875	15875	7938	141.421
ACHNANTHES	CHRYSOPHYTA	2	117475	22451	101600	133350	234950	15875	19.111
ATTHEYA	CHRYSOPHYTA	2	9525	13470	0	19050	19050	9525	141.421
CHAETOCEROS	CHRYSOPHYTA	2	242888	24696	225425	260350	485775	17463	10.168
DINOBYRON	CHRYSOPHYTA	2	26988	11225	19050	34925	53975	7938	41.555
MELOSIRA	CHRYSOPHYTA	2	211138	60617	168275	254000	422275	42863	28.710
NAVICULA	CHRYSOPHYTA	2	79375	26941	60325	98425	158750	19050	33.941
RHIZOSOLENIA	CHRYSOPHYTA	2	60325	8980	53975	66675	120650	6350	14.886
STEPHANODISCUS	CHRYSOPHYTA	2	14288	6735	9525	19050	28575	4763	47.140
SYNEDRA	CHRYSOPHYTA	2	234950	44901	203200	266700	469900	31750	19.111
CRYPTOMONAS	CRYPTOPHYTA	2	6350	4490	3175	9525	12700	3175	70.711
ANABAENOPSIS	CYANOPHYTA	2	39688	56127	0	79375	79375	39688	141.421
ANACYSTIS	CYANOPHYTA	2	1562100	143684	1460500	1663700	3124200	101600	9.198
CYLINDROSPERMUM	CYANOPHYTA	2	596900	484934	254000	939800	1193800	342900	81.242
DACTYLOCOCCOPSIS	CYANOPHYTA	2	7938	2245	6350	9525	15875	1588	28.264
LYNGBYA	CYANOPHYTA	2	165100	233487	0	330200	330200	165100	141.421
MERISMOPEDIA	CYANOPHYTA	2	1141413	491669	793750	1489075	2282825	347663	43.075
OSCILLATORIA	CYANOPHYTA	2	1155700	305329	939800	1371600	2311400	215900	26.419
RAPHIDIOPSIS	CYANOPHYTA	2	15875	22451	0	31750	31750	15875	141.421
EUGLENA	EUGLENOPHYTA	2	9525	0	9525	9525	19050	0	0.000
TRACHELOMONAS	EUGLENOPHYTA	2	6350	4490	3175	9525	12700	3175	70.711
CERATIUM	PYRROPHYTA	2	1588	2245	0	3175	3175	1588	141.421
GYMNODINIUM	PYRROPHYTA	2	22225	22451	6350	38100	44450	15875	101.015

SEQUOYAH PHYTOPLANKTON CALCULATIONS
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STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE RIV_MILE=478.2 SAM_LOC=AO DATE=03AUG82 DEPTH=1 -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ACTINASTRUM	CHLOROPHYTA	2	12700	17961	0	25400	25400	12700	141.421
ANKISTRODESMUS	CHLOROPHYTA	2	14288	2245	12700	15875	28575	1588	15.713
CHLAMYDOMONAS	CHLOROPHYTA	2	19050	17961	6350	31750	38100	12700	94.281
CHLORELLA	CHLOROPHYTA	2	46930	6735	41275	50800	92075	4763	14.630
CHODATELLA	CHLOROPHYTA	2	20630	2245	19050	22225	41275	1588	10.879
COELASTRUM	CHLOROPHYTA	2	28575	40411	0	57150	57150	28575	141.421
CRUCIGENIA	CHLOROPHYTA	2	36513	51636	0	73025	73025	36513	141.421
ELAKATOTHRIX	CHLOROPHYTA	2	6350	8980	0	12700	12700	6350	141.421
EUASTRUM	CHLOROPHYTA	2	9525	4490	6350	12700	19050	3175	47.140
FRANCEIA	CHLOROPHYTA	2	9525	0	9525	9525	19050	0	0.000
GOLENKINIA	CHLOROPHYTA	2	12700	0	12700	12700	25400	0	0.000
GONIUM	CHLOROPHYTA	2	55563	65107	9525	101600	111125	46030	117.178
KIRCHNERIELLA	CHLOROPHYTA	2	55563	24696	38100	73025	111125	17463	44.447
MICRACTINIUM	CHLOROPHYTA	2	6350	8980	0	12700	12700	6350	141.421
OOCYSTIS	CHLOROPHYTA	2	15875	22451	0	31750	31750	15875	141.421
PANGORINA	CHLOROPHYTA	2	101600	0	101600	101600	203200	0	0.000
PTEROMONAS	CHLOROPHYTA	2	17463	2245	15875	19050	34925	1588	12.856
SCENEDESMUS	CHLOROPHYTA	2	311150	85312	250825	371475	622300	60325	27.419
SCHROEDERIA	CHLOROPHYTA	2	17463	24696	0	34925	34925	17463	141.421
STAUSTRUM	CHLOROPHYTA	2	3175	4490	0	6350	6350	3175	141.421
TETRAEDRON	CHLOROPHYTA	2	6350	8980	0	12700	12700	6350	141.421
TETRASTRUM	CHLOROPHYTA	2	3175	4490	0	6350	6350	3175	141.421
TREUBARIA	CHLOROPHYTA	2	17463	6735	12700	22225	34925	4763	38.569
ACHNANTHES	CHRYSOPHYTA	2	127000	22451	111125	142875	254000	15875	17.678
ATTHEYA	CHRYSOPHYTA	2	6350	8980	0	12700	12700	6350	141.421
CHAETOCEROS	CHRYSOPHYTA	2	201613	60617	158750	244475	403225	42863	30.066
CYMBELLA	CHRYSOPHYTA	2	1588	2245	0	3175	3175	1588	141.421
DINOBRYON	CHRYSOPHYTA	2	23813	11225	15875	31750	47625	7938	47.140
MELOSIRA	CHRYSOPHYTA	2	180975	22451	165100	196850	361950	15875	12.405
NAVICULA	CHRYSOPHYTA	2	82550	8980	76200	88900	165100	6350	10.879
RHIZOSOLENIA	CHRYSOPHYTA	2	42863	11225	34925	50800	85725	7938	26.189
STEPHANODISCUS	CHRYSOPHYTA	2	3175	4490	0	6350	6350	3175	141.421
SYNEDRA	CHRYSOPHYTA	2	300030	217771	146050	454025	600075	153988	72.581
CRYPTOMONAS	CRYPTOPHYTA	2	6350	0	6350	6350	12700	0	0.000
ANACYSTIS	CYANOPHYTA	2	982663	114498	901700	1063625	1965325	80963	11.652
CHROOCOCCUS	CYANOPHYTA	2	6350	8980	0	12700	12700	6350	141.421
CYLINDROSPERMUM	CYANOPHYTA	2	50800	71842	0	101600	101600	50800	141.421
DACTYLOCOCCOPSIS	CYANOPHYTA	2	11113	11225	3175	19050	22225	7938	101.015
MERISMOPEDIA	CYANOPHYTA	2	577850	44901	546100	609600	1155700	31750	7.770
OSCILLATORIA	CYANOPHYTA	2	546100	125724	457200	635000	1092200	88900	23.022
RAPHIDIOPSIS	CYANOPHYTA	2	39685	2245	38100	41275	79375	1588	5.657
SPIRULINA	CYANOPHYTA	2	25400	35921	0	50800	50800	25400	141.421
EUGLENA	EUGLENOPHYTA	2	20630	2245	19050	22225	41275	1588	10.879
CERATIUM	PYRROPHYTA	2	1588	2245	0	3175	3175	1588	141.421
GYMNODINIUM	PYRROPHYTA	2	11113	2245	9525	12700	22225	1588	20.203

SEQUOYAH PHYTOPLANKTON CALCULATIONS

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STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE RIV_MILE=478.2 SAM_LOC=A0 DATE=03AUG82 DEPTH=3 -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ACTINASTRUM	CHLOROPHYTA	2	26988	11225	19050	34925	53975	7938	41.595
ANKISTRODESMUS	CHLOROPHYTA	2	15875	8980	9525	22225	31750	6350	56.569
CHLAMYDOMONAS	CHLOROPHYTA	2	4763	6735	0	9525	9525	4763	141.421
CHLORELLA	CHLOROPHYTA	2	52388	20206	38100	66675	104775	14288	38.569
CHODATELLA	CHLOROPHYTA	2	12700	8980	6350	19050	25400	6350	70.711
COELASTRUM	CHLOROPHYTA	2	41275	58372	0	82550	82550	41275	141.421
CRUCIGENIA	CHLOROPHYTA	2	11113	2245	9525	12700	22225	1588	20.203
DICTYOSPHAERIUM	CHLOROPHYTA	2	136525	67352	88900	184150	273050	47625	49.333
ELAKATOTHRIX	CHLOROPHYTA	2	3175	4490	0	6350	6350	3175	141.421
EUASTRUM	CHLOROPHYTA	2	3175	4490	0	6350	6350	3175	141.421
EUDORINA	CHLOROPHYTA	2	101600	143684	0	203200	203200	101600	141.421
FRANCEIA	CHLOROPHYTA	2	6350	8980	0	12700	12700	6350	141.421
GOLENKINIA	CHLOROPHYTA	2	30163	24696	12700	47625	60325	17463	81.876
GONIUM	CHLOROPHYTA	2	25400	35921	0	50800	50800	25400	141.421
KIRCHNERIELLA	CHLOROPHYTA	2	63500	0	63500	63500	127000	0	0.000
MICRACTINIUM	CHLOROPHYTA	2	12700	17961	0	25400	25400	12700	141.421
OOCYSTIS	CHLOROPHYTA	2	6350	8980	0	12700	12700	6350	141.421
PANDORINA	CHLOROPHYTA	2	101600	0	101600	101600	203200	0	0.000
PEDIASTRUM	CHLOROPHYTA	2	12700	17961	0	25400	25400	12700	141.421
PTEROMONAS	CHLOROPHYTA	2	6350	8980	0	12700	12700	6350	141.421
SCENEDESMUS	CHLOROPHYTA	2	420688	29186	400050	441325	841375	20638	6.938
SCHROEDERIA	CHLOROPHYTA	2	19050	17961	6350	31750	38100	12700	94.281
TETRAEDRON	CHLOROPHYTA	2	4763	6735	0	9525	9525	4763	141.421
TREUBARIA	CHLOROPHYTA	2	6350	8980	0	12700	12700	6350	141.421
ACHNANTHES	CHRYSOPHYTA	2	141288	15715	130175	152400	282575	11113	11.123
ATTHEYA	CHRYSOPHYTA	2	6350	0	6350	6350	12700	0	0.000
CHAETOCEROS	CHRYSOPHYTA	2	185738	24696	168275	203200	371475	17463	13.296
CYCLOTELLA	CHRYSOPHYTA	2	1588	2245	0	3175	3175	1588	141.421
MELOSIRA	CHRYSOPHYTA	2	219075	134704	123625	314325	438150	95250	61.488
NAVICULA	CHRYSOPHYTA	2	106363	38166	79375	133350	212725	26988	35.883
RHIZOSOLENIA	CHRYSOPHYTA	2	68263	24696	50800	85725	136525	17463	36.178
STEPHANODISCUS	CHRYSOPHYTA	2	19050	0	19050	19050	38100	0	0.000
SYNEDRA	CHRYSOPHYTA	2	179388	253692	0	358775	358775	179388	141.421
CHROOMONAS	CRYPTOPHYTA	2	14288	6735	9525	19050	28575	4763	47.140
CRYPTOMONAS	CRYPTOPHYTA	2	23813	11225	15875	31750	47625	7938	47.140
ANACYSTIS	CYANOPHYTA	2	839788	29186	819150	860425	1679575	20638	3.475
CHROOCOCCUS	CYANOPHYTA	2	19050	26941	0	38100	38100	19050	141.421
DACTYLOCOCCOPSIS	CYANOPHYTA	2	7938	2245	6350	9525	15875	1588	28.284
MERISMOPEDIA	CYANOPHYTA	2	665163	105518	590550	739775	1330325	74613	15.863
OSCILLATORIA	CYANOPHYTA	2	673100	17961	660400	685800	1346200	12700	2.668
RAPHIDIOPSIS	CYANOPHYTA	2	30163	24696	12700	47625	60325	17463	81.876
EUGLENA	EUGLENOPHYTA	2	9525	4490	6350	12700	19050	3175	47.140
TRACHELOMONAS	EUGLENOPHYTA	2	12700	8980	6350	19050	25400	6350	70.711
CERATIUM	PYRRROPHYTA	2	3175	4490	0	6350	6350	3175	141.421
GYMNODINIUM	PYRRROPHYTA	2	38100	22451	22225	53975	76200	15875	58.926
PERIDINIUM	PYRRROPHYTA	2	1588	2245	0	3175	3175	1588	141.421

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

RIVER=TENNESSEE

RIV_MILE=478.2

SAM_LOC=A0

DATE=03AUG82

DEPTH=5

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ACANTHOSPHAERA	CHLOROPHYTA	2	1588	2245	0	3175	3175	1588	141.421
ACTINASTRUM	CHLOROPHYTA	2	46038	11225	38100	53975	92075	7938	24.383
ANKISTRODESMUS	CHLOROPHYTA	2	6350	8980	0	12700	12700	6350	141.421
ARTHRODESMUS	CHLOROPHYTA	2	1588	2245	0	3175	3175	1588	141.421
CHLAMYDOMONAS	CHLOROPHYTA	2	12700	4490	9525	15875	25400	3175	35.355
CHLORELLA	CHLOROPHYTA	2	6350	8980	0	12700	12700	6350	141.421
CHODATELLA	CHLOROPHYTA	2	9525	13470	0	19050	19050	9525	141.421
COLLASTRUM	CHLOROPHYTA	2	109538	29186	88900	130175	219075	20638	26.645
CRUCIGENIA	CHLOROPHYTA	2	44450	8980	38100	50800	88900	6350	20.203
DICTYOSPHAERIUM	CHLOROPHYTA	2	14288	20206	0	28575	28575	14288	141.421
ELAKATOTHRIX	CHLOROPHYTA	2	6350	8980	0	12700	12700	6350	141.421
EUASTRUM	CHLOROPHYTA	2	6350	0	6350	6350	12700	0	0.000
EUDORINA	CHLOROPHYTA	2	101600	143684	0	203200	203200	101600	141.421
FRANCEIA	CHLOROPHYTA	2	4763	6735	0	9525	9525	4763	141.421
GOLENKINIA	CHLOROPHYTA	2	12700	17961	0	25400	25400	12700	141.421
GONIUM	CHLOROPHYTA	2	25400	35921	0	50800	50800	25400	141.421
KIRCHNERIELLA	CHLOROPHYTA	2	88900	17961	76200	101600	177800	12700	20.203
MICRACTINIUM	CHLOROPHYTA	2	19050	8980	12700	25400	38100	6350	47.140
OOCYSTIS	CHLOROPHYTA	2	12700	17961	0	25400	25400	12700	141.421
PANDORINA	CHLOROPHYTA	2	76200	35921	50800	101600	152400	25400	47.140
PEDIASTRUM	CHLOROPHYTA	2	76200	35921	50800	101600	152400	25400	47.140
PLATYDORINA	CHLOROPHYTA	2	50800	71842	0	101600	101600	50800	141.421
POLYEDRIOPSIS	CHLOROPHYTA	2	1588	2245	0	3175	3175	1588	141.421
PTEROMONAS	CHLOROPHYTA	2	11113	15715	0	22225	22225	11113	141.421
SCENEDESMUS	CHLOROPHYTA	2	319088	2245	317500	320675	638175	1588	0.704
SCHROEDERIA	CHLOROPHYTA	2	7938	6735	3175	12700	15875	4763	84.853
STAUSTRUM	CHLOROPHYTA	2	3175	0	3175	3175	6350	0	0.000
TETRAEDRON	CHLOROPHYTA	2	6350	8980	0	12700	12700	6350	141.421
TETRASTRUM	CHLOROPHYTA	2	9525	4490	6350	12700	19050	3175	47.140
TREUBARIA	CHLOROPHYTA	2	3175	4490	0	6350	6350	3175	141.421
ACHNANTHES	CHRYSOPHYTA	2	69850	17961	57150	82550	139700	12700	25.713
CHAETOCEROS	CHRYSOPHYTA	2	217488	20206	203200	231775	434975	14288	9.290
COCCONEIS	CHRYSOPHYTA	2	1588	2245	0	3175	3175	1588	141.421
CYMBELLA	CHRYSOPHYTA	2	1588	2245	0	3175	3175	1588	141.421
MELOSIRA	CHRYSOPHYTA	2	146050	17961	133350	158750	292100	12700	12.298
NAVICULA	CHRYSOPHYTA	2	128588	29186	107950	149225	257175	20638	22.657
RHIZOSOLENIA	CHRYSOPHYTA	2	28575	8980	22225	34925	57150	6350	31.427
STEPHANODISCUS	CHRYSOPHYTA	2	7938	6735	3175	12700	15875	4763	84.853
SYNEDRA	CHRYSOPHYTA	2	187325	40411	158750	215900	374650	28575	21.573
CHROOMONAS	CRYPTOPHYTA	2	14288	6735	9525	19050	28575	4763	47.140
CRYPTOMONAS	CRYPTOPHYTA	2	9525	4490	6350	12700	19050	3175	47.140
ANABAENOPSIS	CYANOPHYTA	2	31750	44901	0	63500	63500	31750	141.421
ANACYSTIS	CYANOPHYTA	2	782638	289613	577850	987425	1565275	204788	37.005
CHROOCOCCUS	CYANOPHYTA	2	3175	4490	0	6350	6350	3175	141.421
CYLINDROSPERMUM	CYANOPHYTA	2	50800	71842	0	101600	101600	50800	141.421
DACTYLOCOCCOPSIS	CYANOPHYTA	2	7938	11225	0	15875	15875	7938	141.421
LYNGBYA	CYANOPHYTA	2	139700	197566	0	279400	279400	139700	141.421
MERISMOPEDIA	CYANOPHYTA	2	842963	139811	701675	984250	1685925	141288	23.703
OSCELLATORIA	CYANOPHYTA	2	520700	17961	508000	533400	1041400	12700	3.449
RAPHIDIOPSIS	CYANOPHYTA	2	44450	8980	38100	50800	88900	6350	20.203
EUGLENA	EUGLENOPHYTA	2	1588	2245	0	3175	3175	1588	141.421

SEGUOYAH PHYTOPLANKTON CALCULATIONS
FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE RIV_MILE=478.2 SAM_LOC=A0 DATE=03AUG82 DEPTH=5 -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
GYMNODINIUM	PYRROPHYTA	2	6350	0	6350	6350	12700	0	0.

SEQUOYAH PHYTOPLANKTON CALCULATIONS

FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE RIV_MILE=483.4 SAM_LOC=AC DATE=03AUG82 DEPTH=0.3 -----									
TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ANKISTRODESMUS	CHLOROPHYTA	2	15875	17961	3175	28575	31750	12700	113.137
CHLAMYDOMONAS	CHLOROPHYTA	2	3175	4490	0	6350	6350	3175	141.421
CHLORELLA	CHLOROPHYTA	2	30163	6735	25400	34925	60325	4763	22.330
CHODATELLA	CHLOROPHYTA	2	7938	11225	0	15875	15875	7938	141.421
COELASTRUM	CHLOROPHYTA	2	39688	11225	31750	47625	79375	7938	28.284
CRUCIGENIA	CHLOROPHYTA	2	65088	24696	47625	82550	130175	17463	37.942
DICTYOSPHAERIUM	CHLOROPHYTA	2	31750	26941	12700	50800	63500	19050	84.853
EUASTRUM	CHLOROPHYTA	2	7938	2245	6350	9525	15875	1588	28.264
FRANCEIA	CHLOROPHYTA	2	1588	2245	0	3175	3175	1588	141.421
GOLENKINIA	CHLOROPHYTA	2	1588	2245	0	3175	3175	1588	141.421
KIRCHNERIELLA	CHLOROPHYTA	2	74613	24696	57150	92075	149225	17463	33.099
MICRACTINIUM	CHLOROPHYTA	2	4763	6735	0	9525	9525	4763	141.421
OOCYSTIS	CHLOROPHYTA	2	19050	8980	12700	25400	38100	6350	47.140
PEDIASTRUM	CHLOROPHYTA	2	25400	35921	0	50800	50800	25400	141.421
PTEROMONAS	CHLOROPHYTA	2	1588	2245	0	3175	3175	1588	141.421
SCENEDESMUS	CHLOROPHYTA	2	311150	13470	301625	320675	622300	9525	4.329
SCHROEDERIA	CHLOROPHYTA	2	3175	4490	0	6350	6350	3175	141.421
STAUSTRUM	CHLOROPHYTA	2	3175	4490	0	6350	6350	3175	141.421
TETRAEDRON	CHLOROPHYTA	2	3175	4490	0	6350	6350	3175	141.421
TREUBARIA	CHLOROPHYTA	2	1588	2245	0	3175	3175	1588	141.421
ACHNANTHES	CHRYSOPHYTA	2	17463	6735	12700	22225	34925	4763	38.569
ATTHEYA	CHRYSOPHYTA	2	1588	2245	0	3175	3175	1588	141.421
CHAETOCEROS	CHRYSOPHYTA	2	74613	2245	73025	76200	149225	1588	3.009
DINOBYRON	CHRYSOPHYTA	2	6350	0	6350	6350	12700	0	0.000
MELOSIRA	CHRYSOPHYTA	2	77788	15715	66675	88900	155575	11113	20.203
NAVICULA	CHRYSOPHYTA	2	33338	29186	12700	53975	66675	20638	87.547
RHIZOSOLENIA	CHRYSOPHYTA	2	1588	2245	0	3175	3175	1588	141.421
STEPHANODISCUS	CHRYSOPHYTA	2	6350	0	6350	6350	12700	0	0.000
SYNEDRA	CHRYSOPHYTA	2	131763	2245	130175	133350	263525	1588	1.704
CHROOMONAS	CRYPTOPHYTA	2	4763	6735	0	9525	9525	4763	141.421
CRYPTOMONAS	CRYPTOPHYTA	2	7938	2245	6350	9525	15875	1588	28.284
ANACYSTIS	CYANOPHYTA	2	971550	62862	927100	1016000	1943100	44450	6.470
DACTYLOCOCCOPSIS	CYANOPHYTA	2	4763	6735	0	9525	9525	4763	141.421
MERISMOPEDIA	CYANOPHYTA	2	563563	127969	473075	654050	1127125	90488	22.707
OSCILLATORIA	CYANOPHYTA	2	584200	323289	355600	812800	1168400	228600	55.339
RAPHIDIOPSIS	CYANOPHYTA	2	50800	4490	47625	53975	101600	3175	8.839
TRACHELOMONAS	EUGLENOPHYTA	2	1588	2245	0	3175	3175	1588	141.421
CERATIUM	PYRROPHYTA	2	1588	2245	0	3175	3175	1588	141.421
GYMNODINIUM	PYRROPHYTA	2	1588	2245	0	3175	3175	1588	141.421

SEQUOYAH PHYTOPLANKTON CALCULATIONS

FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE RIV_MILE=483.4 SAM_LOC=AC DATE=03AUG82 DEPTH=1 -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ACTINASTRUM	CHLOROPHYTA	2	25400	0	25400	25400	50800	0	0.000
ANKISTRODESMUS	CHLOROPHYTA	2	11113	15715	0	22225	22225	11113	141.421
CHLAMYDOMONAS	CHLOROPHYTA	2	1588	2245	0	3175	3175	1588	141.421
CHLORELLA	CHLOROPHYTA	2	15875	4490	12700	19050	31750	3175	28.284
CHODATELLA	CHLOROPHYTA	2	6350	8980	0	12700	12700	6350	141.421
COELASTRUM	CHLOROPHYTA	2	26988	38166	0	53975	53975	26988	141.421
CRUCIGENIA	CHLOROPHYTA	2	74613	69597	25400	123825	149225	49213	93.278
ELAKATOTHRIX	CHLOROPHYTA	2	12700	0	12700	12700	25400	0	0.000
FRANCEIA	CHLOROPHYTA	2	9525	4490	6350	12700	19050	3175	47.140
GONIUM	CHLOROPHYTA	2	30163	42656	0	60325	60325	30163	141.421
KIRCHNERIELLA	CHLOROPHYTA	2	79375	4490	76200	82550	158750	3175	5.657
MICRACTINIUM	CHLOROPHYTA	2	9525	13470	0	19050	19050	9525	141.421
OOCYSTIS	CHLOROPHYTA	2	6350	8980	0	12700	12700	6350	141.421
PEDIASTRUM	CHLOROPHYTA	2	25400	35921	0	50800	50800	25400	141.421
PTEROMONAS	CHLOROPHYTA	2	4763	6735	0	9525	9525	4763	141.421
SCENEDESMUS	CHLOROPHYTA	2	317500	22451	301625	333375	635000	15875	7.071
SCHROEDERIA	CHLOROPHYTA	2	14288	2245	12700	15875	28575	1588	15.713
STAUSTRUM	CHLOROPHYTA	2	6350	0	6350	6350	12700	0	0.000
TETRASTRUM	CHLOROPHYTA	2	6350	8980	0	12700	12700	6350	141.421
TREUBARIA	CHLOROPHYTA	2	1588	2245	0	3175	3175	1588	141.421
ACHNANTHES	CHRYSOPHYTA	2	19050	13470	9525	28575	38100	9525	70.711
CHAETOCEROS	CHRYSOPHYTA	2	66675	40411	38100	95250	133350	28575	60.609
CYMBELLA	CHRYSOPHYTA	2	3175	0	3175	3175	6350	0	0.000
DINOBRYON	CHRYSOPHYTA	2	3175	0	3175	3175	6350	0	0.000
MELOSIRA	CHRYSOPHYTA	2	76200	4490	73025	79375	152400	3175	5.893
NAVICULA	CHRYSOPHYTA	2	22225	17961	9525	34925	44450	12700	80.812
STEPHANODISCUS	CHRYSOPHYTA	2	6350	0	6350	6350	12700	0	0.000
SYNEDRA	CHRYSOPHYTA	2	101600	13470	92075	111125	203200	9525	13.258
CHROOMONAS	CRYPTOPHYTA	2	1588	2245	0	3175	3175	1588	141.421
CRYPTOMONAS	CRYPTOPHYTA	2	3175	4490	0	6350	6350	3175	141.421
ANACYSTIS	CYANOPHYTA	2	503238	83067	444500	561975	1006475	58738	16.507
DACTYLOCOCCOPSIS	CYANOPHYTA	2	4763	2245	3175	6350	9525	1588	47.140
MERISOMEDIA	CYANOPHYTA	2	401638	132459	307975	495300	803275	93663	32.980
OSCILLATORIA	CYANOPHYTA	2	609600	215526	457200	762000	1219200	152400	35.355
RAPHIDIOPSIS	CYANOPHYTA	2	36513	2245	34925	38100	73025	1588	6.149
EUGLENA	EUGLENOPHYTA	2	1588	2245	0	3175	3175	1588	141.421
CERATIUM	PYRROPHYTA	2	1588	2245	0	3175	3175	1588	141.421
GYMNODINIUM	PYRROPHYTA	2	1588	2245	0	3175	3175	1588	141.421

SEQUOYAH PHYTOPLANKTON CALCULATIONS
FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE RIV_MILE=483.4 SAM_LOC=AC DATE=03AUG82 DEPTH=3 -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ACTINASTRUM	CHLOROPHYTA	2	39688	20205.6	25400	53975	79375	14287.5	50.912
ANKISTRODESMUS	CHLOROPHYTA	2	6350	8980.3	0	12700	12700	6350.0	141.421
ARTHRODESMUS	CHLOROPHYTA	2	1588	2245.1	0	3175	3175	1587.5	141.421
CHLAMYDOMONAS	CHLOROPHYTA	2	1588	2245.1	0	3175	3175	1587.5	141.421
CHLORELLA	CHLOROPHYTA	2	31750	0.0	31750	31750	63500	0.0	0.000
CHODATELLA	CHLOROPHYTA	2	17463	11225.3	9525	25400	34925	7937.5	64.282
COELASTRUM	CHLOROPHYTA	2	38100	17960.5	25400	50800	76200	12700.0	47.140
CRUCIGENIA	CHLOROPHYTA	2	19050	8980.3	12700	25400	38100	6350.0	47.140
DICTYOSPHAERIUM	CHLOROPHYTA	2	28575	26940.8	9525	47625	57150	19050.0	94.281
ELAKATOTHRIX	CHLOROPHYTA	2	12700	0.0	12700	12700	25400	0.0	0.000
FRANCEIA	CHLOROPHYTA	2	7938	2245.1	6350	9525	15875	1587.5	28.284
GOLENKINIA	CHLOROPHYTA	2	1588	2245.1	0	3175	3175	1587.5	141.421
GONIUM	CHLOROPHYTA	2	31750	26940.8	12700	50800	63500	19050.0	84.853
KIRCHNERIELLA	CHLOROPHYTA	2	77788	33676.0	53975	101600	155575	23812.5	43.292
MICRACTINIUM	CHLOROPHYTA	2	50800	13470.4	41275	60325	101600	9525.0	26.517
OOCYSTIS	CHLOROPHYTA	2	12700	0.0	12700	12700	25400	0.0	0.000
PANDORINA	CHLOROPHYTA	2	25400	35921.0	0	50800	50800	25400.0	141.421
PEDIASTRUM	CHLOROPHYTA	2	25400	35921.0	0	50800	50800	25400.0	141.421
POLYEDRIOPSIS	CHLOROPHYTA	2	3175	4490.1	0	6350	6350	3175.0	141.421
SCENEDESMUS	CHLOROPHYTA	2	309563	11225.3	301625	317500	619125	7937.5	3.626
SCHROEDERIA	CHLOROPHYTA	2	20638	11225.3	12700	28575	41275	7937.5	54.393
STAUSTRUM	CHLOROPHYTA	2	3175	4490.1	0	6350	6350	3175.0	141.421
TETRAEDRON	CHLOROPHYTA	2	3175	4490.1	0	6350	6350	3175.0	141.421
TETRASTRUM	CHLOROPHYTA	2	12700	17960.5	0	25400	25400	12700.0	141.421
TREUBARIA	CHLOROPHYTA	2	3175	0.0	3175	3175	6350	0.0	0.000
ACHNANTHES	CHRYSOPTHYTA	2	19050	8980.3	12700	25400	38100	6350.0	47.140
CHAETOCEROS	CHRYSOPTHYTA	2	125413	33676.0	101600	149225	250825	23812.5	26.852
COCCONEIS	CHRYSOPTHYTA	2	1588	2245.1	0	3175	3175	1587.5	141.421
CYMBELLA	CHRYSOPTHYTA	2	4763	2245.1	3175	6350	9525	1587.5	47.140
DINOBRYON	CHRYSOPTHYTA	2	3175	4490.1	0	6350	6350	3175.0	141.421
FRAGILARIA	CHRYSOPTHYTA	2	28575	40411.2	0	57150	57150	28575.0	141.421
MELOSIRA	CHRYSOPTHYTA	2	84138	29185.8	63500	104775	168275	20637.5	34.688
NAVICULA	CHRYSOPTHYTA	2	6350	8980.3	0	12700	12700	6350.0	141.421
RHIZOSOLENIA	CHRYSOPTHYTA	2	6350	8980.3	0	12700	12700	6350.0	141.421
STEPHANODISCUS	CHRYSOPTHYTA	2	7938	2245.1	6350	9525	15875	1587.5	28.284
SYNEDRA	CHRYSOPTHYTA	2	160338	11225.3	152400	168275	320675	7937.5	7.001
CHROOMONAS	CRYPTOPHYTA	2	1588	2245.1	0	3175	3175	1587.5	141.421
CRYPTOMONAS	CRYPTOPHYTA	2	7938	2245.1	6350	9525	15875	1587.5	28.284
ANACYSTIS	CYANOPHYTA	2	928688	47146.3	895350	962025	1857375	33337.5	5.077
DACTYLOCOCCOPSIS	CYANOPHYTA	2	6350	4490.1	3175	9525	12700	3175.0	70.711
MERISMOPEDIA	CYANOPHYTA	2	387350	40411.2	358775	415925	774700	28575.0	10.433
OSCILLATORIA	CYANOPHYTA	2	952500	17960.5	939800	965200	1905000	12700.0	1.886
RAPHIDIOPSIS	CYANOPHYTA	2	46038	11225.3	38100	53975	92075	7937.5	24.363
SPIRULINA	CYANOPHYTA	2	25400	35921.0	0	50800	50800	25400.0	141.421
EUGLENA	EUGLENOPHYTA	2	6350	4490.1	3175	9525	12700	3175.0	70.711
TRACHELOMONAS	EUGLENOPHYTA	2	1588	2245.1	0	3175	3175	1587.5	141.421
CERATIUM	PYRROPHYTA	2	1588	2245.1	0	3175	3175	1587.5	141.421
GYMNODINIUM	PYRROPHYTA	2	4763	2245.1	3175	6350	9525	1587.5	47.140

SEQUOYAH PHYTOPLANKTON CALCULATIONS

FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE RIV_MILE=483.4 SAM_LOC=AC DATE=03AUG82 DEPTH=5 -----									
TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ACANTHOSPHAERA	CHLOROPHYTA	2	3175	0	3175	3175	6350	0	0.000
ARTHRODESMUS	CHLOROPHYTA	2	4763	6735	0	9525	9525	4763	141.421
CHLAMYDOMONAS	CHLOROPHYTA	2	1588	2245	0	3175	3175	1588	141.421
CHLORELLA	CHLOROPHYTA	2	19050	4490	15875	22225	38100	3175	23.570
CHODATELLA	CHLOROPHYTA	2	9525	0	9525	9525	19050	0	0.000
CRUCIGENIA	CHLOROPHYTA	2	25400	17961	12700	38100	50800	12700	70.711
DICTYOSPHAERIUM	CHLOROPHYTA	2	44450	8980	38100	50800	89900	6350	20.203
EUASTRUM	CHLOROPHYTA	2	1588	2245	0	3175	3175	1588	141.421
FRANCEIA	CHLOROPHYTA	2	6350	4490	3175	9525	12700	3175	70.711
GOLENKINIA	CHLOROPHYTA	2	3175	4490	0	6350	6350	3175	141.421
GONIUM	CHLOROPHYTA	2	20638	6735	15875	25400	41275	4763	32.636
KIRCHNERIELLA	CHLOROPHYTA	2	30163	24696	12700	47625	60325	17463	81.876
MICRACTINIUM	CHLOROPHYTA	2	9525	13470	0	19050	19050	9525	141.421
OOCYSTIS	CHLOROPHYTA	2	6350	8980	0	12700	12700	6350	141.421
PANDORINA	CHLOROPHYTA	2	76200	35921	50800	101600	152400	25400	47.140
PEDIASTRUM	CHLOROPHYTA	2	25400	35921	0	50800	50800	25400	141.421
SCENEDESMUS	CHLOROPHYTA	2	246963	83067	187325	304800	492125	58738	33.759
SCHROEDERIA	CHLOROPHYTA	2	23813	6735	19050	28575	47625	4763	28.284
STAUSTRUM	CHLOROPHYTA	2	1588	2245	0	3175	3175	1588	141.421
TETRAEDRON	CHLOROPHYTA	2	4763	6735	0	9525	9525	4763	141.421
TETRASTRUM	CHLOROPHYTA	2	6350	8980	0	12700	12700	6350	141.421
TREUBARIA	CHLOROPHYTA	2	1588	2245	0	3175	3175	1588	141.421
ACHNANTHES	CHRYSOPHYTA	2	34925	26941	15875	53975	69850	19050	77.139
CHAETOCEROS	CHRYSOPHYTA	2	84138	42656	53975	114300	168275	30163	50.698
CYMBELLA	CHRYSOPHYTA	2	3175	4490	0	6350	6350	3175	141.421
DINOBYRON	CHRYSOPHYTA	2	4763	6735	0	9525	9525	4763	141.421
MELOSIRA	CHRYSOPHYTA	2	47625	8980	41275	53975	95250	6350	18.856
NAVICULA	CHRYSOPHYTA	2	1588	2245	0	3175	3175	1588	141.421
RHIZOSOLENIA	CHRYSOPHYTA	2	1588	2245	0	3175	3175	1588	141.421
STEPHANODISCUS	CHRYSOPHYTA	2	3175	4490	0	6350	6350	3175	141.421
SYNEDRA	CHRYSOPHYTA	2	107950	13470	98425	117475	215900	9525	12.478
CRYPTOMONAS	CRYPTOPHYTA	2	3175	0	3175	3175	6350	0	0.000
ANACYSTIS	CYANOPHYTA	2	481013	56127	441325	520700	962025	39688	11.668
DACYLOCOCCOPSIS	CYANOPHYTA	2	6350	8980	0	12700	12700	6350	141.421
LYNGBYA	CYANOPHYTA	2	25400	35921	0	50800	50800	25400	141.421
MERISMOPEDIA	CYANOPHYTA	2	258763	29186	238125	279400	517525	20638	11.279
OSCILLATORIA	CYANOPHYTA	2	482600	251447	304800	660400	965200	177800	52.103
RAPHIDIOPSIS	CYANOPHYTA	2	39688	11225	31750	47625	79375	7938	28.284
CRYPTOGLAENA	EUGLENOPHYTA	2	1588	2245	0	3175	3175	1588	141.421
EUGLENA	EUGLENOPHYTA	2	1588	2245	0	3175	3175	1588	141.421
TRACHELOMONAS	EUGLENOPHYTA	2	1588	2245	0	3175	3175	1588	141.421
GYMNODINIUM	PYRROPHYTA	2	4763	2245	3175	6350	9525	1588	47.140
PERIDINIUM	PYRROPHYTA	2	1588	2245	0	3175	3175	1588	141.421

SEQUOYAH PHYTOPLANKTON CALCULATIONS

FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE RIV_MILE=490.5 SAM_LOC=AQ DATE=03AUG82 DEPTH=0.3 -----									
TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ANKISTRODESMUS	CHLOROPHYTA	2	1588	2245	0	3175	3175	1588	141.421
CHLAMYDOMONAS	CHLOROPHYTA	2	1588	2245	0	3175	3175	1588	141.421
CHLORELLA	CHLOROPHYTA	2	33338	2245	31750	34925	66675	1588	6.734
CHODATELLA	CHLOROPHYTA	2	3175	4490	0	6350	6350	3175	141.421
CRUCIGENIA	CHLOROPHYTA	2	92075	130214	0	184150	184150	92075	141.421
EUASTRUM	CHLOROPHYTA	2	3175	4490	0	6350	6350	3175	141.421
FRANCEIA	CHLOROPHYTA	2	3175	4490	0	6350	6350	3175	141.421
GLOEOACTINIUM	CHLOROPHYTA	2	6350	8980	0	12700	12700	6350	141.421
GOLENKINIA	CHLOROPHYTA	2	3175	4490	0	6350	6350	3175	141.421
KISCHNERIFELLA	CHLOROPHYTA	2	28575	22451	12700	44450	57150	15875	78.567
PANDORINA	CHLOROPHYTA	2	25400	35921	0	50800	50800	25400	141.421
PEDIASTRUM	CHLOROPHYTA	2	127000	107763	50800	203200	254000	76200	84.853
SCENEDESMUS	CHLOROPHYTA	2	193675	13470	184150	203200	387350	9525	6.955
STAUSTRUM	CHLOROPHYTA	2	3175	0	3175	3175	6350	0	0.000
TETRAEDRON	CHLOROPHYTA	2	1588	2245	0	3175	3175	1588	141.421
ACHNANTHES	CHRYSOPHYTA	2	31750	4490	28575	34925	63500	3175	14.142
CHAETOCEROS	CHRYSOPHYTA	2	47625	49391	12700	82550	95250	34925	103.709
COCCONEIS	CHRYSOPHYTA	2	1588	2245	0	3175	3175	1588	141.421
MELOSIRA	CHRYSOPHYTA	2	47625	35921	22225	73025	95250	25400	75.425
NAVICULA	CHRYSOPHYTA	2	6350	8980	0	12700	12700	6350	141.421
RHIZOSOLENIA	CHRYSOPHYTA	2	4763	2245	3175	6350	9525	1588	47.140
STEPHANODISCUS	CHRYSOPHYTA	2	11113	2245	9525	12700	22225	1588	20.203
SYNEDRA	CHRYSOPHYTA	2	98425	8980	92075	104775	196850	6350	9.124
CRYPTOMONAS	CRYPTOPHYTA	2	6350	0	6350	6350	12700	0	0.000
ANACYSTIS	CYANOPHYTA	2	420688	51636	384175	457200	841375	36513	12.274
DACTYLOCOCCOPSIS	CYANOPHYTA	2	3175	0	3175	3175	6350	0	0.000
LYNGBYA	CYANOPHYTA	2	25400	35921	0	50800	50800	25400	141.421
MERISMOPEDIA	CYANOPHYTA	2	346075	175115	222250	469900	692150	123825	50.600
OSCILLATORIA	CYANOPHYTA	2	584200	35921	558800	609600	1168400	25400	6.149
RAFHIDIOPSIS	CYANOPHYTA	2	50800	4490	47625	53975	101600	3175	8.839
EUGLENA	EUGLENOPHYTA	2	7938	2245	6350	9525	15875	1588	28.284
CERATIUM	PYRRROPHYTA	2	1588	2245	0	3175	3175	1588	141.421
GYMNODINIUM	PYRRROPHYTA	2	1588	2245	0	3175	3175	1588	141.421
PERIDINIUM	PYRRROPHYTA	2	1588	2245	0	3175	3175	1588	141.421

SEQUOYAH PHYTOPLANKTON CALCULATIONS

FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE RIV_MILE=490.5 SAM_LOC=AQ DATE=03AUG82 DEPTH=1 -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ACTINASTRUM	CHLOROPHYTA	2	25400	0	25400	25400	50800	0	0.000
ANKISTRODESMUS	CHLOROPHYTA	2	14288	6735	9525	19050	28575	4763	47.140
CHLORELLA	CHLOROPHYTA	2	30163	11225	22225	38100	60325	7938	37.216
CHODATELLA	CHLOROPHYTA	2	9525	4490	6350	12700	19050	3175	47.140
COELASTRUM	CHLOROPHYTA	2	20638	29186	0	41275	41275	20638	141.421
CRUCIGENIA	CHLOROPHYTA	2	55563	29186	34925	76200	111125	20638	52.528
DICTYOSPHAERIUM	CHLOROPHYTA	2	25400	0	25400	25400	50800	0	0.000
FRANCEIA	CHLOROPHYTA	2	7938	6735	3175	12700	15875	4763	84.853
GOLENKINIA	CHLOROPHYTA	2	19050	8980	12700	25400	38100	6350	47.140
KIRCHNERIELLA	CHLOROPHYTA	2	47625	31431	25400	69850	95250	22225	65.997
MICRACTINIUM	CHLOROPHYTA	2	20638	2245	19050	22225	41275	1588	10.879
OOCYSTIS	CHLOROPHYTA	2	6350	8980	0	12700	12700	6350	141.421
PANDORINA	CHLOROPHYTA	2	76200	35921	50800	101600	152400	25400	47.140
PEDIASTRUM	CHLOROPHYTA	2	31750	26941	12700	50800	63500	19050	84.853
PTEROMONAS	CHLOROPHYTA	2	4763	2245	3175	6350	9525	1588	47.140
SCENEDESMUS	CHLOROPHYTA	2	354013	78577	298450	409575	708025	55563	22.196
SCHROEDERIA	CHLOROPHYTA	2	15875	13470	6350	25400	31750	9525	84.853
TETRAEDRON	CHLOROPHYTA	2	4763	6735	0	9525	9525	4763	141.421
TREUBARIA	CHLOROPHYTA	2	3175	0	3175	3175	6350	0	0.000
ACHNANTHES	CHRYSOPHYTA	2	25400	13470	15875	34925	50800	9525	53.033
CHAETOCEROS	CHRYSOPHYTA	2	52388	11225	44450	60325	104775	7938	21.427
DINOBYRON	CHRYSOPHYTA	2	7938	6735	3175	12700	15875	4763	84.853
MELOSIRA	CHRYSOPHYTA	2	66675	26941	47625	85725	133350	19050	40.406
NAVICULA	CHRYSOPHYTA	2	1588	2245	0	3175	3175	1588	141.421
RHIZOSOLENIA	CHRYSOPHYTA	2	1588	2245	0	3175	3175	1588	141.421
STEPHANODISCUS	CHRYSOPHYTA	2	7938	6735	3175	12700	15875	4763	84.853
SYNEDRA	CHRYSOPHYTA	2	136525	26941	117475	155575	273050	19050	19.733
CHROOMONAS	CRYPTOPHYTA	2	1588	2245	0	3175	3175	1588	141.421
CRYPTOMONAS	CRYPTOPHYTA	2	3175	0	3175	3175	6350	0	0.000
ANACYSTIS	CYANOPHYTA	2	773113	47146	739775	806450	1546225	33338	6.096
DACTYLOCOCCOPSIS	CYANOPHYTA	2	6350	0	6350	6350	12700	0	0.000
LYNGBYA	CYANOPHYTA	2	63500	89803	0	127000	127000	63500	141.421
MERISMOPEDIA	CYANOPHYTA	2	304800	8980	298450	311150	609600	6350	2.946
OSCILLATORIA	CYANOPHYTA	2	965200	323289	736600	1193800	1930400	228600	33.455
RAPHIDIOPSIS	CYANOPHYTA	2	44450	4490	41275	47625	88900	3175	10.102
SPIRULINA	CYANOPHYTA	2	25400	35921	0	50800	50800	25400	141.421
EUGLENA	EUGLENOPHYTA	2	7938	2245	6350	9525	15875	1588	28.284
TRACHELOMONAS	EUGLENOPHYTA	2	4763	6735	0	9525	9525	4763	141.421
CERATIUM	PYRRROPHYTA	2	1588	2245	0	3175	3175	1588	141.421
GYMNODINIUM	PYRRROPHYTA	2	1588	2245	0	3175	3175	1588	141.421

SEQUOYAH PHYTOPLANKTON CALCULATIONS
FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

RIVER=TENNESSEE RIV_MILE=490.5 SAM_LOC=AQ DATE=03AUG82 DEPTH=3

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ANKISTRODESMUS	CHLOROPHYTA	2	12700	0.0	12700	12700	25400	0.0	0.000
CHLORELLA	CHLOROPHYTA	2	23813	2245.1	22225	25400	47625	1587.5	9.428
CHODATELLA	CHLOROPHYTA	2	6350	8980.3	0	12700	12700	6350.0	141.421
COELASTRUM	CHLOROPHYTA	2	34925	13470.4	25400	44450	69850	9525.0	38.569
CRUCIGENIA	CHLOROPHYTA	2	11113	2245.1	9525	12700	22225	1587.5	21.203
DICTYOSPHAERIUM	CHLOROPHYTA	2	25400	35921.0	0	50800	50800	25400.0	141.421
EUASTRUM	CHLOROPHYTA	2	3175	0.0	3175	3175	6350	0.0	0.000
FRANCEIA	CHLOROPHYTA	2	3175	4490.1	0	6350	6350	3175.0	141.421
GOLENKINIA	CHLOROPHYTA	2	3175	4490.1	0	6350	6350	3175.0	141.421
KIRCHNERIELLA	CHLOROPHYTA	2	46038	29185.8	25400	66675	92075	20637.5	63.396
OOCYSTIS	CHLOROPHYTA	2	12700	0.0	12700	12700	25400	0.0	0.000
PEDIASTRUM	CHLOROPHYTA	2	50800	0.0	50800	50800	101600	0.0	0.000
SCENEDESMUS	CHLOROPHYTA	2	303213	87557.5	241300	365125	606425	61912.5	28.877
SCHROEDERIA	CHLOROPHYTA	2	15875	0.0	15875	15875	31750	0.0	0.000
STAUSTRUM	CHLOROPHYTA	2	3175	4490.1	0	6350	6350	3175.0	141.421
TETRAEDRON	CHLOROPHYTA	2	12700	0.0	12700	12700	25400	0.0	0.000
TREUBARIA	CHLOROPHYTA	2	1588	2245.1	0	3175	3175	1587.5	141.421
ACHYANTHES	CHRYSOPHYTA	2	31750	8980.3	25400	38100	63500	6350.0	28.284
CHAETOCEROS	CHRYSOPHYTA	2	61913	6735.2	57150	66675	123825	4762.5	10.879
MELOSIRA	CHRYSOPHYTA	2	47625	8980.3	41275	53975	95250	6350.0	18.856
NAVICULA	CHRYSOPHYTA	2	1588	2245.1	0	3175	3175	1587.5	141.421
STEPHANODISCUS	CHRYSOPHYTA	2	4763	2245.1	3175	6350	9525	1587.5	47.140
SYNEDRA	CHRYSOPHYTA	2	119063	11225.3	111125	127000	238125	7937.5	9.428
CRYPTOMONAS	CRYPTOPHYTA	2	6350	4490.1	3175	9525	12700	3175.0	70.711
ANACYSTIS	CYANOPHYTA	2	458788	56126.6	419100	498475	917575	39687.5	12.234
DACTYLOCOCCOPSIS	CYANOPHYTA	2	6350	0.0	6350	6350	12700	0.0	0.000
LYNGBYA	CYANOPHYTA	2	38100	53881.5	0	76200	76200	38100.0	141.421
MERISOMEDIA	CYANOPHYTA	2	180975	58371.7	139700	222250	361950	41275.0	32.254
OSCILLATORIA	CYANOPHYTA	2	533400	71842.0	482600	584200	1066800	50800.0	13.469
RAPHIDIOPSIS	CYANOPHYTA	2	31750	4490.1	28575	34925	63500	3175.0	14.142
EUGLENA	EUGLENOPHYTA	2	4763	2245.1	3175	6350	9525	1587.5	47.140
PHACUS	EUGLENOPHYTA	2	1588	2245.1	0	3175	3175	1587.5	141.421
TRACHELOMONAS	EUGLENOPHYTA	2	3175	4490.1	0	6350	6350	3175.0	141.421
CERATIUM	PYRROPHYTA	2	1588	2245.1	0	3175	3175	1587.5	141.421
GYMNODINIUM	PYRROPHYTA	2	1588	2245.1	0	3175	3175	1587.5	141.421

SEQUOYAH PHYTOPLANKTON CALCULATIONS
FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE RIV_MILE=490.5 SAM_LOC=AQ DATE=03AUG82 DEPTH=5 -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ACTINASTRUM	CHLOROPHYTA	2	12700	17961	0	25400	25400	12700	141.421
ANKISTRODESMUS	CHLOROPHYTA	2	12700	8980	6350	19050	25400	6350	70.711
CHLORELLA	CHLOROPHYTA	2	22225	4490	19050	25400	44450	3175	20.203
CHODATELLA	CHLOROPHYTA	2	9525	4490	6350	12700	19050	3175	47.140
COELASTRUM	CHLOROPHYTA	2	36513	15715	25400	47625	73025	11113	43.041
CRUCIGENIA	CHLOROPHYTA	2	19050	26941	0	38100	38100	19050	141.421
DICTYOSPHAERIUM	CHLOROPHYTA	2	25400	17961	12700	38100	50800	12700	70.711
FRANCEIA	CHLOROPHYTA	2	4763	2245	3175	6350	9525	1588	47.140
GOLENKINIA	CHLOROPHYTA	2	9525	0	9525	9525	19050	0	0.000
GONIUM	CHLOROPHYTA	2	25400	35921	0	50800	50800	25400	141.421
KIRCHNERIELLA	CHLOROPHYTA	2	7938	11225	0	15875	15875	7938	141.421
MICRACTINIUM	CHLOROPHYTA	2	15875	4490	12700	19050	31750	3175	28.284
OOCYSTIS	CHLOROPHYTA	2	12700	17961	0	25400	25400	12700	141.421
PEDIASTRUM	CHLOROPHYTA	2	31750	26941	12700	50800	63500	19050	84.853
PTEROMONAS	CHLOROPHYTA	2	6350	0	6350	6350	12700	0	0.000
SCENEDESMUS	CHLOROPHYTA	2	269875	58372	228600	311150	539750	41275	21.629
SCHROEDERIA	CHLOROPHYTA	2	7938	2245	6350	9525	15875	1588	28.284
STAUSTRUM	CHLOROPHYTA	2	1588	2245	0	3175	3175	1588	141.421
TETRAEDRON	CHLOROPHYTA	2	6350	4490	3175	9525	12700	3175	70.711
TETRASTRUM	CHLOROPHYTA	2	6350	8980	0	12700	12700	6350	141.421
ACHNANTHES	CHRYSTOPHYTA	2	19050	0	19050	19050	38100	0	0.000
ATTHEYA	CHRYSTOPHYTA	2	1588	2245	0	3175	3175	1588	141.421
CHAETOCEROS	CHRYSTOPHYTA	2	31750	8980	25400	38100	63500	6350	28.284
COCCONEIS	CHRYSTOPHYTA	2	3175	4490	0	6350	6350	3175	141.421
MELOSIRA	CHRYSTOPHYTA	2	57150	13470	47625	66675	114300	9525	23.570
NAVICULA	CHRYSTOPHYTA	2	9525	4490	6350	12700	19050	3175	47.140
RHIZOSOLENIA	CHRYSTOPHYTA	2	4763	2245	3175	6350	9525	1588	47.140
STEPHANODISCUS	CHRYSTOPHYTA	2	6350	0	6350	6350	12700	0	0.000
SYNEDRA	CHRYSTOPHYTA	2	101600	26941	82550	120650	203200	19050	26.517
CHROOMONAS	CRYPTOPHYTA	2	4763	2245	3175	6350	9525	1588	47.140
CRYPTOMONAS	CRYPTOPHYTA	2	1588	2245	0	3175	3175	1588	141.421
ANACYSTIS	CYANOPHYTA	2	474663	38166	447675	501650	949325	26988	8.041
DACTYLOCOCCOPSIS	CYANOPHYTA	2	4763	6735	0	9525	9525	4763	141.421
MERISMOPEDIA	CYANOPHYTA	2	322263	87557	260350	384175	644525	61913	27.170
OSCILLATORIA	CYANOPHYTA	2	774700	197566	635000	914400	1549400	139700	25.502
RAPHIDIOPSIS	CYANOPHYTA	2	30163	6735	25400	34925	60325	4763	22.330
EUGLENA	EUGLENOPHYTA	2	3175	4490	0	6350	6350	3175	141.421
TRACHELOMONAS	EUGLENOPHYTA	2	3175	0	3175	3175	6350	0	0.000
CERATIUM	PYRROPHYTA	2	1588	2245	0	3175	3175	1588	141.421
GYMNODINIUM	PYRROPHYTA	2	1588	2245	0	3175	3175	1588	141.421

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE RIV_MILE=478.2 SAM_LOC=A0 DATE=16NOV82 DEPTH=0.3 -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ANKISTRODESMUS	CHLOROPHYTA	2	4762.5	6735.2	0	9525	9525	4762.5	141.421
CHLAMYDOMONAS	CHLOROPHYTA	2	3175.0	4490.1	0	6350	6350	3175.0	141.421
CHLORELLA	CHLOROPHYTA	2	3175.0	4490.1	0	6350	6350	3175.0	141.421
CHODATELLA	CHLOROPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421
DICTYOSPHAERIUM	CHLOROPHYTA	2	11112.5	15715.4	0	22225	22225	11112.5	141.421
SCENEDESMUS	CHLOROPHYTA	2	22225.0	22450.6	6350	38100	44450	15875.0	101.015
ACHNANTHES	CHRYSOPTHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421
COCCONEIS	CHRYSOPTHYTA	2	3175.0	0.0	3175	3175	6350	0.0	0.000
MELOSIRA	CHRYSOPTHYTA	2	77787.5	20205.6	63500	92075	155575	14287.5	25.975
NAVICULA	CHRYSOPTHYTA	2	6350.0	8980.3	0	12700	12700	6350.0	141.421
STEPHANODISCUS	CHRYSOPTHYTA	2	7937.5	2245.1	6350	9525	15875	1587.5	28.284
SYNEDRA	CHRYSOPTHYTA	2	3175.0	4490.1	0	6350	6350	3175.0	141.421
SYNURA	CHRYSOPTHYTA	2	9525.0	13470.4	0	19050	19050	9525.0	141.421
CHROOMONAS	CRYPTOPHYTA	2	9525.0	4490.1	6350	12700	19050	3175.0	47.140
CRYPTOMONAS	CRYPTOPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421
EUGLENA	EUGLENOPHYTA	2	6350.0	4490.1	3175	9525	12700	3175.0	70.711
TRACHELOMONAS	EUGLENOPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421

SEQUOYAH PHYTOPLANKTON CALCULATIONS
FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE RIV_MILE=478.2 SAM_LOC=A0 DATE=16NOV82 DEPTH=1 -----									
TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ANKISTRODESMUS	CHLOROPHYTA	2	12700.0	0.00	12700	12700	25400	0.0	0.000
CHLAMYDOMONAS	CHLOROPHYTA	2	9525.0	4490.13	6350	12700	19050	3175.0	47.140
CHLORELLA	CHLOROPHYTA	2	3175.0	0.00	3175	3175	6350	0.0	0.000
CHODATELLA	CHLOROPHYTA	2	1587.5	2245.06	0	3175	3175	1587.5	141.421
SCENEDESMUS	CHLOROPHYTA	2	6350.0	8980.26	0	12700	12700	6350.0	141.421
COCCONEIS	CHRYSOPHYTA	2	1587.5	2245.06	0	3175	3175	1587.5	141.421
MELOSIRA	CHRYSOPHYTA	2	63500.0	4490.13	60325	66675	127000	3175.0	7.071
NAVICULA	CHRYSOPHYTA	2	7937.5	2245.06	6350	9525	15875	1587.5	26.284
STEPHANODISCUS	CHRYSOPHYTA	2	3175.0	0.00	3175	3175	6350	0.0	0.000
SYNEDRA	CHRYSOPHYTA	2	4762.5	2245.06	3175	6350	9525	1587.5	47.140
CRYPTOMONAS	CRYPTOPHYTA	2	1587.5	2245.06	0	3175	3175	1587.5	141.421
EUGLENA	EUGLENOPHYTA	2	3175.0	0.00	3175	3175	6350	0.0	0.000

SEQUOYAH PHYTOPLANKTON CALCULATIONS
FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE RIV_MILE=478.2 SAM_LOC=A0 DATE=16NOV82 DEPTH=3 -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ANKISTRODESMUS	CHLOROPHYTA	2	3175.0	4490.1	0	6350	6350	3175.0	141.421
CHLAMYDOMONAS	CHLOROPHYTA	2	9525.0	4490.1	6350	12700	19050	3175.0	47.140
CHLORELLA	CHLOROPHYTA	2	3175.0	0.0	3175	3175	6350	0.0	0.000
DICTYOSPHAERIUM	CHLOROPHYTA	2	25400.0	35921.0	0	50800	50800	25400.0	141.421
SCENEDESMUS	CHLOROPHYTA	2	6350.0	8980.3	0	12700	12700	6350.0	141.421
COCCONEIS	CHRYSOPHYTA	2	3175.0	0.0	3175	3175	6350	0.0	0.000
CYMBELLA	CHRYSOPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421
DINOBRYON	CHRYSOPHYTA	2	7937.5	11225.3	0	15875	15875	7937.5	141.421
MELOSIRA	CHRYSOPHYTA	2	66675.0	4490.1	63500	69850	133350	3175.0	6.734
NAVICULA	CHRYSOPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421
SYNEEDRA	CHRYSOPHYTA	2	11112.5	6735.2	6350	15875	22225	4762.5	60.609
EUGLENA	EUGLENOPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421

SEQUOYAH PHYTOPLANKTON CALCULATIONS
FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE RIV_MILE=478.2 SAM_LOC=A0 DATE=16NOV82 DEPTH=5 -----									
TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ACANTHOSPHAERA	CHLOROPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421
ANKISTRODESMUS	CHLOROPHYTA	2	4762.5	6735.2	0	9525	9525	4762.5	141.421
CHLAMYDOMONAS	CHLOROPHYTA	2	12700.0	4490.1	9525	15875	25400	3175.0	35.355
CHODATELLA	CHLOROPHYTA	2	4762.5	6735.2	0	9525	9525	4762.5	141.421
KIRCHNERIELLA	CHLOROPHYTA	2	3175.0	4490.1	0	6350	6350	3175.0	141.421
SCENEDESMUS	CHLOROPHYTA	2	15875.0	13470.4	6350	25400	31750	9525.0	84.853
MELOSIRA	CHRYSOPHYTA	2	63500.0	13470.4	53975	73025	127000	9525.0	21.213
NAVICULA	CHRYSOPHYTA	2	3175.0	4490.1	0	6350	6350	3175.0	141.421
STEPHANODISCUS	CHRYSOPHYTA	2	3175.0	0.0	3175	3175	6350	0.0	0.000
SYNEDRA	CHRYSOPHYTA	2	7937.5	6735.2	3175	12700	15875	4762.5	84.853
EUGLENA	EUGLENOPHYTA	2	4762.5	2245.1	3175	6350	9525	1587.5	47.140

SEQUOYAH PHYTOPLANKTON CALCULATIONS
FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE RIV_MILE=483.4 SAM_LOC=AC DATE=16NOV82 DEPTH=0.3 -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ANKISTRODESMUS	CHLOROPHYTA	2	9525.0	8980.3	3175	15875	19050	6350.0	94.281
CHLAMYDOMONAS	CHLOROPHYTA	2	6350.0	0.0	6350	6350	12700	0.0	0.000
SCENEDESMUS	CHLOROPHYTA	2	25400.0	0.0	25400	25400	50800	0.0	0.000
CYMBELLA	CHRYSOPTHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421
MELOSIRA	CHRYSOPTHYTA	2	71437.5	29185.8	50800	92075	142875	20637.5	40.855
NAVICULA	CHRYSOPTHYTA	2	3175.0	0.0	3175	3175	6350	0.0	0.000
STEPHANODISCUS	CHRYSOPTHYTA	2	6350.0	4490.1	3175	9525	12700	3175.0	70.711
SYNEDRA	CHRYSOPTHYTA	2	4762.5	2245.1	3175	6350	9525	1587.5	47.140
DACTYLOCOCCOPSIS	CYANOPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421
MERISMOPEDIA	CYANOPHYTA	2	6350.0	8980.3	0	12700	12700	6350.0	141.421
EUGLENA	EUGLENOPHYTA	2	3175.0	0.0	3175	3175	6350	0.0	0.000
TRACHELONAS	EUGLENOPHYTA	2	3175.0	4490.1	0	6350	6350	3175.0	141.421

SEQUOYAH PHYTOPLANKTON CALCULATIONS
FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE RIV_MILE=483.4 SAM_LOC=AC DATE=16NOV82 DEPTH=1 -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ANKISTRODESMUS	CHLOROPHYTA	2	3175.0	4490.1	0	6350	6350	3175.0	141.421
CHLAMYDOMONAS	CHLOROPHYTA	2	9525.0	8980.3	3175	15875	19050	6350.0	94.281
CHLORELLA	CHLOROPHYTA	2	3175.0	4490.1	0	6350	6350	3175.0	141.421
CHODATELLA	CHLOROPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421
SCENEDESMUS	CHLOROPHYTA	2	15875.0	4490.1	12700	19050	31750	3175.0	28.284
MELOSIRA	CHRYSOPHYTA	2	52387.5	24695.7	34925	69850	104775	17462.5	47.140
NAVICULA	CHRYSOPHYTA	2	3175.0	0.0	3175	3175	6350	0.0	0.000
STEPHANODISCUS	CHRYSOPHYTA	2	4762.5	6735.2	0	9525	9525	4762.5	141.421
SYNEORA	CHRYSOPHYTA	2	6350.0	4490.1	3175	9525	12700	3175.0	70.711
CRYPTOMONAS	CRYPTOPHYTA	2	3175.0	4490.1	0	6350	6350	3175.0	141.421
DACTYLOCOCCOPSIS	CYANOPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421
EUGLENA	EUGLENOPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421
TRACHELOMONAS	EUGLENOPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421

SEQUOYAH PHYTOPLANKTON CALCULATIONS

FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

RIVER=TENNESSEE

RIV_MILE=483.4

SAM_LOC=AC

DATE=16NOV82

DEPTH=3

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ANKISTRODESUS	CHLOROPHYTA	2	4762.5	2245.1	3175	6350	9525	1587.5	47.140
CHLAMYDOMONAS	CHLOROPHYTA	2	4762.5	2245.1	3175	6350	9525	1587.5	47.140
CHLORELLA	CHLOROPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421
CRUCIGENIA	CHLOROPHYTA	2	6350.0	8980.3	0	12700	12700	6350.0	141.421
ACHNANTHES	CHRYSOPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421
ASTERIONELLA	CHRYSOPHYTA	2	6350.0	8980.3	0	12700	12700	6350.0	141.421
CYMBELLA	CHRYSOPHYTA	2	3175.0	0.0	3175	3175	6350	0.0	0.000
HELOSIRA	CHRYSOPHYTA	2	36512.5	11225.3	28575	44450	73025	7937.5	30.744
NAVICULA	CHRYSOPHYTA	2	6350.0	0.0	6350	6350	12700	0.0	0.000
STEPHANODISCUS	CHRYSOPHYTA	2	6350.0	4490.1	3175	9525	12700	3175.0	70.711
SYNEORA	CHRYSOPHYTA	2	4762.5	6735.2	0	9525	9525	4762.5	141.421
CRYPTOMONAS	CRYPTOPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421
EUGLENA	EUGLENOPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421
TRACHELOMONAS	EUGLENOPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421
GYMNOGINIUM	PYRROPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421

SEQUOYAH PHYTOPLANKTON CALCULATIONS
FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE RIV_MILE=483.4 SAM_LOC=AC DATE=16NOV82 DEPTH=5 -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ANKISTRODESMUS	CHLOROPHYTA	2	4762.5	2245.1	3175	6350	9525	1587.5	47.140
ARTHRODESMUS	CHLOROPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421
CHLAMYDOMONAS	CHLOROPHYTA	2	4762.5	2245.1	3175	6350	9525	1587.5	47.140
SCENEDESMUS	CHLOROPHYTA	2	12700.0	0.0	12700	12700	25400	0.0	0.000
CYMBELLA	CHRYSOPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421
HELOSIRA	CHRYSOPHYTA	2	39687.5	20205.6	25400	53975	79375	14287.5	50.912
SYNEORA	CHRYSOPHYTA	2	6350.0	4490.1	3175	9525	12700	3175.0	70.711
CRYPTOMONAS	CRYPTOPHYTA	2	3175.0	0.0	3175	3175	6350	0.0	0.000
EUGLENA	EUGLENOPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421

SEQUOYAH PHYTOPLANKTON CALCULATIONS
FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE RIV_MILE=490.5 SAM_LOC=AQ DATE=16NOV82 DEPTH=0.3 -----									
TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ANKISTRODESMUS	CHLOROPHYTA	2	17462.5	2245.06	15875	19050	34925	1587.5	12.856
CHLAMYDOMONAS	CHLOROPHYTA	2	6350.0	0.00	6350	6350	12700	0.0	0.000
CHODATELLA	CHLOROPHYTA	2	1587.5	2245.06	0	3175	3175	1587.5	141.421
SCENEDESMUS	CHLOROPHYTA	2	9525.0	4490.13	6350	12700	19050	3175.0	47.140
CYMBELLA	CHRYSOPHYTA	2	4762.5	2245.06	3175	6350	9525	1587.5	47.140
HELOSIRA	CHRYSOPHYTA	2	65087.5	2245.06	63500	66675	130175	1587.5	3.449
NAVICULA	CHRYSOPHYTA	2	1587.5	2245.06	0	3175	3175	1587.5	141.421
SYNEDRA	CHRYSOPHYTA	2	23212.5	2245.06	22225	25400	47625	1587.5	9.428
CRYPTOMONAS	CRYPTOPHYTA	2	1587.5	2245.06	0	3175	3175	1587.5	141.421
EUGLENA	EUGLENOPHYTA	2	6350.0	0.00	6350	6350	12700	0.0	0.000

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SEQUOYAH PHYTOPLANKTON CALCULATIONS
FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE RIV_MILE=490.5 SAM_LOC=AQ DATE=16NOV82 DEPTH=1 -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ANKISTRODESMUS	CHLOROPHYTA	2	6350.0	0.0	6350	6350	12700	0.0	0.000
CHLAMYDOMONAS	CHLOROPHYTA	2	6350.0	4490.1	3175	9525	12700	3175.0	70.711
CHODATELLA	CHLOROPHYTA	2	3175.0	4490.1	0	6350	6350	3175.0	141.421
SCENEDESMUS	CHLOROPHYTA	2	9525.0	4490.1	6350	12700	19050	3175.0	47.140
SCHROEDERIA	CHLOROPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421
CYMBELLA	CHRYSOPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421
MELOSIRA	CHRYSOPHYTA	2	53975.0	0.0	53975	53975	107950	0.0	0.000
NAVICULA	CHRYSOPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421
STEPHANODISCUS	CHRYSOPHYTA	2	9525.0	13470.4	0	19050	19050	9525.0	141.421
SYNEDRA	CHRYSOPHYTA	2	7937.5	2245.1	6350	9525	15875	1587.5	28.284
CRYPTOMONAS	CRYPTOPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421
DACTYLOCOCCOPSIS	CYANOPHYTA	2	3175.0	4490.1	0	6350	6350	3175.0	141.421
EUGLENA	EUGLENOPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421
TRACHELOMONAS	EUGLENOPHYTA	2	1587.5	2245.1	0	3175	3175	1587.5	141.421

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SEQUOYAH PHYTOPLANKTON CALCULATIONS
FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE RIV_MILE=490.5 SAM_LOC=AQ DATE=16NOV82 DEPTH=3 -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ANKISTRODESMUS	CHLOROPHYTA	2	7937.5	2245.06	6350	9525	15875	1587.5	28.284
DICTYOSPHAERIUM	CHLOROPHYTA	2	6350.0	8980.26	0	12700	12700	6350.0	141.421
KIRCHNERIELLA	CHLOROPHYTA	2	1587.5	2245.06	0	3175	3175	1587.5	141.421
SCENEDESMUS	CHLOROPHYTA	2	12700.0	0.00	12700	12700	25400	0.0	0.000
GOMPHONEMA	CHRYSOPTHYTA	2	1587.5	2245.06	0	3175	3175	1587.5	141.421
MELOSIRA	CHRYSOPTHYTA	2	87312.5	6735.19	82550	92075	174625	4762.5	7.714
NAVICULA	CHRYSOPTHYTA	2	4762.5	2245.06	3175	6350	9525	1587.5	47.141
STEPHANODISCUS	CHRYSOPTHYTA	2	6350.0	8980.26	0	12700	12700	6350.0	141.421
SYNEDRA	CHRYSOPTHYTA	2	4762.5	6735.19	0	9525	9525	4762.5	141.421
CRYPTOMONAS	CRYPTOPHYTA	2	1587.5	2245.06	0	3175	3175	1587.5	141.421
DACTYLOCOCCOPSIS	CYANOPHYTA	2	4762.5	6735.19	0	9525	9525	4762.5	141.421
EUGLENA	EUGLENOPHYTA	2	3175.0	0.00	3175	3175	6350	0.0	0.000

SEQUOYAH PHYTOPLANKTON CALCULATIONS
FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/LITER

----- RIVER=TENNESSEE RIV_MILE=490.5 SAM_LOC=A0 DATE=16NOV82 DEPTH=5 -----									
TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ANKISTRODESMUS	CHLOROPHYTA	2	9525.0	0.00	9525	9525	19050	0.0	0.000
SCENEDESMUS	CHLOROPHYTA	2	6350.0	8980.26	0	12700	12700	6350.0	141.421
ACHNANTHES	CHRYSOPTHYTA	2	1587.5	2245.06	0	3175	3175	1587.5	141.421
MELOSIRA	CHRYSOPTHYTA	2	61912.5	2245.06	60325	63500	123825	1587.5	3.626
NAVICULA	CHRYSOPTHYTA	2	4762.5	2245.06	3175	6350	9525	1587.5	47.140
STEPHANODISCUS	CHRYSOPTHYTA	2	7937.5	6735.19	3175	12700	15875	4762.5	64.653
SYNEDRA	CHRYSOPTHYTA	2	4762.5	2245.06	3175	6350	9525	1587.5	47.140
CRYPTOMONAS	CRYPTOPHYTA	2	6350.0	0.00	6350	6350	12700	0.0	0.000
EUGLENA	EUGLENOPHYTA	2	3175.0	0.00	3175	3175	6350	0.0	0.000
TRACHELOMONAS	EUGLENOPHYTA	2	1587.5	2245.06	0	3175	3175	1587.5	141.421

APPENDIX E

MEAN PHYTOPLANKTON DENSITIES (NO. $\times$ 100/l) AT EACH SAMPLE
STATION (DEPTHS COMBINED) DURING OPERATIONAL MONITORING
(1982), SEQUOYAH NUCLEAR PLANT, CHICKAMAUGA RESERVOIR

Appendix E. Mean Phytoplankton Densities (No. x 100/ℓ) at Each Sample Station (Depths Combined) During Operational Monitoring (1982), Sequoyah Nuclear Plant, Chickamauga Reservoir

	FEB 1982			MAY 1982			AUG 1982			NOV 1982		
	Tennessee River Mile											
	480.8	483.4	490.5	478.2	483.4	490.5	478.2	483.4	490.5	478.2	483.4	490.5
Chlorophyta												
Acanthosphaera	0	0	0	0	0	0	4	8	0	4	0	0
Actinastrum	0	0	60	0	0	179	318	163	95	0	0	0
Ankistrodesmus	16	20	64	468	401	484	111	83	103	64	56	103
Arthrodesmus	0	0	0	0	0	0	4	16	0	0	4	0
Chlamydomonas	12	8	0	99	12	242	175	20	4	87	64	32
Chlorella	24	4	32	60	20	135	532	242	274	24	12	0
Chodatella	0	0	0	8	20	4	163	103	71	20	4	12
Coelastrum	0	0	0	0	0	0	647	262	230	0	0	0
Crucigenia	0	0	12	0	0	0	373	460	445	0	16	0
Dictyosphaerium	0	0	0	0	40	389	548	262	191	91	0	16
Elakatothrix	0	0	0	0	0	0	48	64	0	0	0	0
Euastrum	0	0	0	349	464	2873	79	24	16	0	0	0
Eudorina	0	0	0	837	1814	13740	508	0	0	0	0	0
Franceia	0	0	0	0	0	0	56	64	48	0	0	0
Gloeoactinium	0	0	0	0	0	0	0	0	16	0	0	0
Golenkinia	0	0	0	0	0	0	250	16	87	0	0	0
Gonium	0	0	0	0	0	0	329	206	64	0	0	0
Kirchneriella	0	0	0	0	0	4	746	655	325	8	0	4
Micractinium	16	0	0	0	0	0	294	187	91	0	0	0
Mougeotia	0	0	0	0	0	0	44	0	0	0	0	0
Oocystis	16	0	0	0	16	8	119	111	79	0	0	0
Pandorina	0	0	0	0	0	127	826	254	254	0	0	0
Pediastrum	0	0	0	0	0	0	381	254	603	0	0	0
Platydorina	0	0	0	0	0	0	445	0	0	0	0	0
Polyedriopsis	0	0	0	0	0	0	4	8	0	0	0	0
Pteromonas	0	0	0	0	0	0	111	16	28	0	0	0
Scenedesmus	32	24	28	64	56	111	3770	2961	2802	127	135	95
Schroederia	0	0	0	0	0	0	139	155	99	0	0	4
Staurostrum	0	0	0	0	0	0	20	36	20	0	0	0
Tetraedron	0	0	0	0	0	0	87	28	64	0	0	0
Tetrastrum	0	0	0	0	0	0	48	64	16	0	0	0
Treubaria	0	0	0	0	0	4	87	20	12	0	0	0

Appendix E. (Continued)

	FEB 1982			MAY 1982			AUG 1982			NOV 1982		
	Tennessee River Mile											
	480.8	483.4	490.5	478.2	483.4	490.5	478.2	483.4	490.5	478.2	483.4	490.5
Chrysophyta												
Achnanthes	4	4	0	0	0	4	1139	226	270	4	4	4
Asterionella	0	71	218	183	310	397	0	0	0	0	16	0
Attheya	0	0	0	0	0	0	56	4	4	0	0	0
Chaetoceros	0	0	0	0	0	24	2119	877	484	0	0	0
Cocconeis	0	0	0	0	4	0	4	4	12	20	0	0
Cyclotella	0	0	0	0	0	0	4	0	0	0	0	0
Cymbella	4	8	4	28	4	0	8	28	0	4	16	16
Diatoma	0	0	0	8	4	770	0	0	0	0	0	0
Dichotomococcus	0	0	0	0	0	64	0	0	0	0	0	0
Dinobryon	71	64	28	75	12	4092	127	44	20	20	0	0
Fragilaria	0	0	0	0	0	0	0	71	0	0	0	0
Gomphonema	8	0	0	8	4	0	0	0	0	0	0	4
Melosira	746	794	786	675	1191	651	1893	714	548	679	500	671
Navicula	4	28	12	36	52	16	992	159	48	48	32	32
Nitzschia	0	0	0	0	4	0	0	0	0	0	0	0
Rhizosolenia	0	0	0	8	16	64	500	24	28	0	0	0
Stephanodiscus	28	44	56	60	20	16	111	60	75	36	44	60
Synedra	64	60	91	151	262	325	2254	1254	1139	67	56	103
Synura	0	0	0	0	0	0	0	0	0	24	0	0
Cryptophyta												
Chroomonas	0	0	0	794	976	1504	71	20	16	24	0	0
Cryptomonas	0	4	0	202	448	643	115	56	44	8	20	28
Cyanophyta												
Anabaenopsis	0	0	0	0	0	0	179	0	0	0	0	0
Anacystis	0	0	0	829	1155	4012	10418	7211	5318	0	0	0
Aphanocapsa	0	0	0	0	0	913	0	0	0	0	0	0
Aphanothece	0	0	0	0	0	119	0	0	0	0	0	0
Chroococcus	0	0	0	0	0	0	71	0	0	0	0	0
Cylindrospermum	349	0	0	0	0	0	1746	0	0	0	0	0
Dactylococcopsis	16	28	0	32	0	64	87	56	52	0	8	20
Gloeocapsa	0	0	0	0	0	325	0	0	0	0	0	0
Gloeothece	0	0	0	0	0	2318	0	0	0	0	0	0

Appendix E. (Continued)

	FEB 1982			MAY 1982			AUG 1982			NOV 1982		
	Tennessee River Mile											
	480.8	483.4	490.5	478.2	483.4	490.5	478.2	483.4	490.5	478.2	483.4	490.5
Lyngbya	0	0	0	0	0	0	762	64	318	0	0	0
Merismopedia	0	0	0	123	107	889	8068	4028	2885	0	16	0
Oscillatoria	191	0	0	0	0	540	7239	6572	7144	0	0	0
Raphidiopsis	0	0	0	0	0	0	325	433	393	0	0	0
Spirulina	0	95	0	0	0	0	64	64	64	0	0	0
Euglenophyta												
Cryptoglana	0	0	0	0	0	0	0	4	0	0	0	0
Euglena	0	0	0	20	52	48	103	24	60	40	20	36
Phacus	0	0	0	0	0	0	0	0	4	0	0	0
Trachelomonas	4	0	0	12	20	24	48	12	28	4	16	8
Pyrrophyta												
Ceratium	0	0	0	0	0	0	16	12	16	0	0	0
Gymnodinium	0	0	0	0	0	0	194	32	16	0	4	0
Peridinium	0	0	0	0	0	0	4	4	4	0	0	0

APPENDIX F

INDIVIDUAL SAMPLE TOTALS, MEANS, STANDARD DEVIATIONS,
AND COEFFICIENTS OF VARIATION FOR TOTAL PHYTOPLANKTON AND GROUP
CELL DENSITIES (NO./L) DURING OPERATIONAL MONITORING (1982),
SEQUOYAH NUCLEAR PLANT, CHICKAMAUGA RESERVOIR

Appendix F. Individual Sample Totals, Means, Standard Deviations, and Coefficients of Variation for Total Phytoplankton and Group Cell Densities (No./L) During Operational Monitoring (1982), Sequoyah Nuclear Plant, Chickamauga Reservoir

Depth (M)	TRM* 480.8					TRM 483.4					TRM 490.5				
	Sample 1	Sample 2	Mean	STD [†]	CV [‡]	Sample 1	Sample 2	Mean	STD	CV	Sample 1	Sample 2	Mean	STD	CV
Feb 82															
Chlorophyta															
0.3	9525	12700	11113	2245	20	0	3175	1588	2245	141	12700	19050	15875	4490	28
1.0	19050	28575	23813	6735	28	3175	0	1588	2245	141	19050	19050	19050	0	0
3.0	9525	6350	7938	2245	28	12700	3175	7938	6735	85	3175	22225	12700	13470	106
5.0	3175	3175	3175	0	0	15875	6350	11113	6735	61	3175	57150	30163	38166	127
Chrysophyta															
0.3	69850	85725	77788	11225	14	136525	73025	104775	44901	43	155575	127000	141288	20206	14
1.0	88900	139700	114300	35921	31	95250	133350	114300	26941	24	130175	133350	131763	2245	2
3.0	88900	104775	96838	11225	12	111125	117475	114300	4490	4	161925	101600	131763	42656	32
5.0	85725	79375	82550	4490	5	85725	104775	95250	13470	14	76200	69850	73025	4490	6
Cryptophyta															
0.3	0	0	0	0	.	0	0	0	0	.	0	0	0	0	.
1.0	0	0	0	0	.	0	0	0	0	.	0	0	0	0	.
3.0	0	0	0	0	.	0	0	0	0	.	0	0	0	0	.
5.0	0	0	0	0	.	3175	0	1588	2245	141	0	0	0	0	.
Cyanophyta															
0.3	3175	282575	142875	197566	138	6350	0	3175	4490	141	0	0	0	0	.
1.0	155575	0	77788	110008	141	0	6350	3175	4490	141	0	0	0	0	.
3.0	0	0	0	0	.	76200	3175	39688	51636	130	0	0	0	0	.
5.0	3175	0	1588	2245	141	0	6350	3175	4490	141	0	0	0	0	.
Euglenophyta															
0.3	0	0	0	0	.	0	0	0	0	.	0	0	0	0	.
1.0	0	3175	1588	2245	141	0	0	0	0	.	0	0	0	0	.
3.0	0	0	0	0	.	0	0	0	0	.	0	0	0	0	.
5.0	0	0	0	0	.	0	0	0	0	.	0	0	0	0	.
Pyrrophyta															
0.3	0	0	0	0	.	0	0	0	0	.	0	0	0	0	.
1.0	0	0	0	0	.	0	0	0	0	.	0	0	0	0	.
3.0	0	0	0	0	.	0	0	0	0	.	0	0	0	0	.
5.0	0	0	0	0	.	0	0	0	0	.	0	0	0	0	.
Total															
0.3	82550	381000	231775	211036	91	142875	76200	109538	47146	43	168275	146050	157163	15715	10
1.0	263525	171450	217488	65107	30	98425	139700	119063	29186	25	149225	152400	150813	2245	1
3.0	98425	111125	104775	8980	9	200025	123825	161925	53882	33	165100	123825	144463	29186	20
5.0	92075	82550	87313	6735	8	104775	117475	111125	8980	8	79375	127000	103188	33676	33

Depth (M)	TRM 478.2					TRM 483.4					TRM 490.5				
	Sample 1	Sample 2	Mean	STD	CV	Sample 1	Sample 2	Mean	STD	CV	Sample 1	Sample 2	Mean	STD	CV
May 82															
Chlorophyta															
0.3	244475	200025	222250	31431	14	396875	431800	414338	24696	6	2111375	2193925	2152650	58372	3
1.0	190500	190500	190500	0	0	327025	263525	295275	44901	15	1771650	2035175	1903413	186340	10
3.0	206375	203200	204788	2245	1	209550	161925	185738	33676	18	2019300	1736725	1878013	199811	11
5.0	123825	149225	136525	17961	13	206375	276225	241300	49391	20	1587500	1184275	1385888	285123	21
Chrysophyta															
0.3	98425	130175	114300	22451	20	107950	168275	138113	42656	31	527050	536575	531813	6735	1
1.0	139700	98425	119063	29186	25	139700	231775	185738	65107	35	768350	711200	739775	40411	5
3.0	219075	193675	206375	17961	9	190500	85725	138113	74087	54	790575	908050	849313	83067	10
5.0	69850	34925	52388	24696	47	263525	317500	290513	38166	13	431800	463550	447675	22451	5
Chrysophyta															
0.3	79375	85725	82550	4490	5	133350	127000	130175	4490	3	60325	120650	90488	42656	47
1.0	111125	127000	119063	11225	9	184150	212725	198438	20206	10	254000	219075	236538	24696	10
3.0	130175	114300	122238	11225	9	120650	123825	122238	2245	2	295275	282575	288925	8980	3
5.0	76200	73025	74613	2245	3	123825	114300	119063	6735	6	276225	209550	242888	47146	19
Cyanophyta															
0.3	114300	98425	106363	11225	11	136525	63500	100013	51636	52	755650	949325	852488	136949	16
1.0	184150	139700	161925	31431	19	168275	193675	180975	17961	10	1162050	1006475	1084263	110008	10
3.0	92075	152400	122238	42656	35	104775	101600	103188	2245	2	911225	1082675	996950	121233	12
5.0	0	6350	3175	4490	141	63500	177800	120650	80822	67	809625	666750	738188	101028	14
Euglenophyta															
0.3	3175	3175	3175	0	0	6350	6350	6350	0	0	6350	12700	9525	4490	47
1.0	9525	0	4763	6735	141	9525	25400	17463	11225	64	0	0	0	0	.
3.0	0	9525	4763	6735	141	0	3175	1588	2245	141	15875	6350	11113	6735	61
5.0	0	0	0	0	.	3175	3175	3175	0	0	0	15875	7938	11225	141
Pyrrophyta															
0.3	0	0	0	0	.	0	0	0	0	.	0	0	0	0	.
1.0	0	0	0	0	.	0	0	0	0	.	0	0	0	0	.
3.0	0	0	0	0	.	0	0	0	0	.	0	0	0	0	.
5.0	0	0	0	0	.	0	0	0	0	.	0	0	0	0	.
Total															
0.3	539750	517525	528638	15715	3	781050	796925	788988	11225	1	3460750	3813175	3636963	249202	7
1.0	635000	555625	595313	56127	9	828675	927100	877888	69597	8	3956050	3971925	3963988	11225	0
3.0	647700	673100	660400	17961	3	625475	476250	550863	105518	19	4032250	4016375	4024313	11225	0
5.0	269875	263525	266700	4490	2	660400	889000	774700	161645	21	3105150	2540000	2822575	399621	14

Appendix F. (Continued)

Depth (M)	TRM 478.2					TRM 483.4					TRM 490.5				
	Sample 1	Sample 2	Mean	STD	CV	Sample 1	Sample 2	Mean	STD	CV	Sample 1	Sample 2	Mean	STD	CV
Aug 82															
Chlorophyta															
0.3	1470025	1444625	1457325	17961	1	638175	666750	652463	20206	3	517525	536575	527050	13470	3
1.0	711200	942975	827088	163890	20	622300	749300	685800	89803	13	911225	635000	773113	195321	25
3.0	1066800	1184275	1125538	83067	7	742950	828675	785813	60617	8	628650	511175	569913	83067	15
5.0	1285875	904875	1095375	269408	25	466725	676275	571500	148174	26	533400	555625	544513	15715	3
Chrysophyta															
0.3	1076325	917575	996950	112253	11	377825	323850	350838	38166	11	184150	314325	249238	92048	37
1.0	1216025	723900	969963	347985	36	260350	336550	298450	53882	18	349250	250825	300038	69597	23
3.0	1200150	654050	927100	386151	42	415925	479425	447675	44901	10	276225	257175	266700	13470	5
5.0	762000	815975	788988	38166	5	228600	349250	288925	85312	30	190500	279400	234950	62862	27
Cryptophyta															
0.3	3175	9525	6350	4490	71	6350	19050	12700	8980	71	6350	6350	6350	0	0
1.0	6350	6350	6350	0	0	3175	6350	4763	2245	47	6350	3175	4763	2245	47
3.0	34925	41275	38100	4490	12	9525	9525	9525	0	0	3175	9525	6350	4490	71
5.0	31750	15875	23813	11225	47	3175	3175	3175	0	0	3175	9525	6350	4490	71
Cyanophyta															
0.3	5038725	4330700	4684713	500649	11	2073275	2276475	2174875	143684	7	1587500	1273175	1430338	222261	16
1.0	2533650	1946275	2239963	415337	19	1673225	1438275	1555750	166135	11	2419350	1946275	2182813	334515	15
3.0	2159000	2311400	2235200	107763	5	2400300	2292350	2346325	76332	3	1416050	1082675	1249363	235732	19
5.0	1841500	3006725	2424113	823938	34	1066800	1520825	1293813	321044	25	1835150	1377950	1606550	323289	20
Euglenophyta															
0.3	12700	19050	15875	4490	28	3175	0	1588	2245	141	6350	9525	7938	2245	28
1.0	22225	19050	20638	2245	11	0	3175	1588	2245	141	15875	9525	12700	4490	35
3.0	31750	12700	22225	13470	61	3175	12700	7938	6735	85	12700	6350	9525	4490	47
5.0	3175	0	1588	2245	141	3175	6350	4763	2245	47	9525	3175	6350	4490	71
Pyrrophyta															
0.3	6350	41275	23813	24696	104	3175	3175	3175	0	0	6350	3175	4763	2245	47
1.0	9525	15875	12700	4490	35	0	6350	3175	4490	141	3175	3175	3175	0	0
3.0	63500	22225	42863	29186	68	6350	6350	6350	0	0	3175	3175	3175	0	0
5.0	6350	6350	6350	0	0	6350	6350	6350	0	0	3175	3175	3175	0	0
Total															
0.3	7607300	6762750	7185025	597187	8	3101975	3289300	3195638	132459	4	2308225	2143125	2225675	116743	5
1.0	4498975	3654425	4076700	597187	15	2559050	2540000	2549525	13470	1	3705225	2847975	3276600	606167	18
3.0	4556125	4225925	4391025	233487	5	3578225	3629025	3603625	35921	1	2339975	1870075	2105025	332269	16
5.0	3930650	4749800	4340225	579227	13	1774825	2562225	2168525	556776	26	2574925	2228850	2401888	244712	10

Depth (M)	TRM 478.2					TRM 483.4					TRM 490.5				
	Sample 1	Sample 2	Mean	STD	CV	Sample 1	Sample 2	Mean	STD	CV	Sample 1	Sample 2	Mean	STD	CV
Nov 82															
Chlorophyta															
0.3	44450	47625	46038	2245	5	47625	34925	41275	8980	22	31750	38100	34925	4490	13
1.0	44450	22225	33338	15715	47	47625	19050	33338	20206	61	22225	31750	26988	6735	25
3.0	15875	79375	47625	44901	94	12700	22225	17463	6735	39	22225	34925	28575	8980	31
5.0	60325	25400	42863	24696	58	19050	28575	23813	6735	28	9525	22225	15875	8980	57
Chrysophyta															
0.3	133350	85725	109538	33676	31	101600	73025	87313	20206	23	88900	101600	95250	8980	9
1.0	82550	79375	80963	2245	3	41275	92075	66675	35921	54	82550	66675	74613	11225	15
3.0	88900	95250	92075	4490	5	69850	60325	65088	6735	10	95250	114300	104775	13470	13
5.0	60325	95250	77788	24696	32	28575	66675	47625	26941	57	79375	82550	80963	2245	3
Cryptophyta															
0.3	6350	15875	11113	6735	61	0	0	0	0	.	0	3175	1588	2245	141
1.0	0	3175	1588	2245	141	0	6350	3175	4490	141	3175	0	1588	2245	141
3.0	0	0	0	0	.	3175	0	1588	2245	141	0	3175	1588	2245	141
5.0	0	0	0	0	.	3175	3175	3175	0	0	6350	6350	6350	0	0
Cyanophyta															
0.3	0	0	0	0	.	12700	3175	7938	6735	85	0	0	0	0	.
1.0	0	0	0	0	.	3175	0	1588	2245	141	0	6350	3175	4490	141
3.0	0	0	0	0	.	0	0	0	0	.	9525	0	4763	6735	141
5.0	0	0	0	0	.	0	0	0	0	.	0	0	0	0	.
Euglenophyta															
0.3	9525	6350	7938	2245	28	3175	9525	6350	4490	71	6350	6350	6350	0	0
1.0	3175	3175	3175	0	0	3175	3175	3175	0	0	6350	0	3175	4490	141
3.0	0	3175	1588	2245	141	3175	3175	3175	0	0	3175	3175	3175	0	0
5.0	3175	6350	4763	2245	47	3175	0	1588	2245	141	3175	6350	4763	2245	47
Pyrrophyta															
0.3	0	0	0	0	.	0	0	0	0	.	0	0	0	0	.
1.0	0	0	0	0	.	0	0	0	0	.	0	0	0	0	.
3.0	0	0	0	0	.	3175	0	1588	2245	141	0	0	0	0	.
5.0	0	0	0	0	.	0	0	0	0	.	0	0	0	0	.
Total															
0.3	193675	155575	174625	26941	15	165100	120650	142875	31431	22	127000	149225	138113	15715	11
1.0	130175	107950	119063	15715	13	95250	120650	107950	17961	17	114300	104775	109538	6735	6
3.0	104775	177800	141288	51636	37	92075	85725	88900	4490	5	130175	155575	142875	17961	13
5.0	123825	127000	125413	2245	2	53975	98425	76200	31431	41	98425	117475	107950	13470	12

*Tennessee River Mile.
†Standard Deviation.
‡Coefficient Variation.

APPENDIX G

CHLOROPHYLL A CONCENTRATIONS, PHAEOPHYTIN A CONCENTRATIONS,
AND PHAEOPHYTIN INDEX VALUES AT EACH SAMPLE LOCATION
DURING OPERATIONAL MONITORING (1982), SEQUOYAH NUCLEAR PLANT
CHICKAMAUGA RESERVOIR

Appendix G. Chlorophyll a Concentrations, Phaeophytin a Concentrations, and Phaeophytin Index Values at Each Sample Location During Operational Monitoring (1982), Sequoyah Nuclear Plant, Chickamauga Reservoir

Date	Depth (m)	Sample No.	TRM [*] 478.2			TRM 483.4			TRM 490.5		
			Chl [†] <u>a</u> Mg/M ³	Pheo [†] <u>a</u> Mg/M ³	Pheo Index	Chl <u>a</u> Mg/M ³	Pheo <u>a</u> Mg/M ³	Pheo Index	Chl <u>a</u> Mg/M ³	Pheo <u>a</u> Mg/M ³	Pheo Index
Feb 82	0.3	1	3.16	1.79	1.38	3.48	1.90	1.39	4.27	2.94	1.33
		2	2.82	1.68	1.37	3.89	2.64	1.33	2.96	0.51	1.59
		$\bar{X}$	2.99	1.73	1.37	3.68	2.27	1.36	3.61	1.72	1.46
		s	0.17	0.05	0.00	0.20	0.37	0.03	0.65	1.22	0.13
		CV [#]	8.04	4.48	0.51	7.87	23.05	3.12	25.62	99.61	12.59
	1.0	1	3.23	1.52	1.43	0.00	0.00	0.00	3.06	1.60	1.40
		2	2.45	2.94	1.15	3.03	1.42	1.42	3.26	2.00	1.40
		$\bar{X}$	2.84	2.23	1.29	1.51	0.71	0.71	3.16	1.80	1.40
		s	0.39	0.71	0.14	1.51	0.71	0.71	0.10	0.20	0.00
		CV	19.42	45.03	15.35	141.4	141.4	141.4	4.48	15.71	0.00
	3.0	1	3.13	2.70	1.26	2.72	1.50	1.39	3.43	2.35	1.33
		2	3.37	2.16	1.35	3.67	2.72	1.31	3.16	1.79	1.38
		$\bar{X}$	3.25	2.43	1.30	3.19	2.11	1.35	3.29	2.07	1.35
		s	0.12	0.27	0.05	0.47	0.61	0.04	0.14	0.28	0.02
		CV	5.22	15.71	4.88	21.03	40.88	4.19	5.79	19.13	2.61
	5.0	1	3.74	1.55	1.46	3.48	1.44	1.45	3.30	1.52	1.43
		2	3.03	1.60	1.40	3.35	2.16	1.35	3.28	1.07	1.50
		$\bar{X}$	3.38	1.57	1.43	3.41	1.80	1.40	3.29	1.29	1.46
		s	0.36	0.02	0.03	0.06	0.36	0.05	0.01	0.23	0.04
		CV	14.83	2.24	2.97	2.69	28.28	5.05	0.43	24.57	3.38
May 82	0.3	1	7.10	1.98	1.52	5.88	4.01	1.33	6.56	2.86	1.44
		2	6.54	2.86	1.44	5.64	3.18	1.38	7.37	1.90	1.53
		$\bar{X}$	6.82	2.42	1.48	5.76	3.59	1.35	6.96	2.38	1.48
		s	0.28	0.44	0.04	0.12	0.41	0.02	0.40	0.48	0.04
		CV	5.81	25.71	3.82	2.95	16.33	2.61	8.22	28.52	4.29
	1.0	1	7.12	2.43	1.49	5.73	1.55	1.53	7.90	2.38	1.51
		2	6.73	2.78	1.45	5.51	2.54	1.43	7.69	1.09	1.60
		$\bar{X}$	6.92	2.60	1.47	5.62	2.04	1.48	7.79	1.73	1.55
		s	0.20	0.18	0.02	0.11	0.50	0.05	0.11	0.64	0.04
		CV	3.98	9.50	1.92	2.77	34.23	4.78	1.90	52.57	4.09

Appendix G. (Continued)

Date	Depth (m)	Sample No.	TRM 478.2			TRM 483.4			TRM 490.5		
			Chl $\bar{a}$ Mg/M ³	Pheo $\bar{a}$ Mg/M ³	Pheo Index	Chl $\bar{a}$ Mg/M ³	Pheo $\bar{a}$ Mg/M ³	Pheo Index	Chl $\bar{a}$ Mg/M ³	Pheo $\bar{a}$ Mg/M ³	Pheo Index
Aug 82	3.0	1	7.35	2.80	1.47	5.98	2.38	1.46	11.36	3.90	1.49
		2	5.58	1.82	1.50	5.55	2.08	1.47	10.17	3.84	1.47
		$\bar{X}$	6.46	2.31	1.48	5.76	2.23	1.46	10.76	3.87	1.48
		s	0.88	0.49	0.02	0.21	0.15	0.00	0.60	0.03	0.01
		CV	19.36	30.00	1.43	5.27	9.51	0.48	7.82	1.10	0.96
	5.0	1	6.64	2.59	1.46	5.51	3.44	1.35	9.83	4.65	1.42
		2	5.62	3.63	1.34	4.96	3.87	1.29	9.63	3.82	1.46
		$\bar{X}$	6.13	3.11	1.40	5.23	3.65	1.32	9.73	4.23	1.44
		s	0.51	0.52	0.06	0.27	0.21	0.03	0.10	0.42	0.02
		CV	11.77	23.65	6.06	7.43	8.32	3.21	1.45	13.86	1.96
	0.3	1	8.75	2.51	1.52	4.88	3.42	1.32	3.76	2.00	1.40
		2	8.84	2.24	1.54	4.32	2.94	1.33	4.11	3.02	1.31
		$\bar{X}$	8.79	2.37	1.53	4.60	3.18	1.32	3.93	2.51	1.35
		s	0.04	0.14	0.01	0.28	0.24	0.00	0.17	0.51	0.05
		CV	0.72	8.04	0.92	8.61	10.67	0.53	6.29	28.74	4.70
	1.0	1	8.73	3.87	1.44	4.78	2.78	1.38	3.84	3.55	1.24
		2	8.96	2.88	1.50	5.32	1.90	1.48	3.98	2.38	1.37
		$\bar{X}$	8.84	3.37	1.47	5.05	2.34	1.43	3.91	2.96	1.30
		s	0.12	0.50	0.03	0.27	0.44	0.05	0.07	0.58	0.06
		CV	1.84	20.74	2.89	7.56	26.59	4.94	2.53	27.90	7.04
	3.0	1	9.02	2.16	1.55	5.12	1.52	1.52	3.74	4.27	1.17
		2	7.83	3.28	1.45	4.78	1.87	1.47	3.62	3.63	1.21
		$\bar{X}$	8.42	2.72	1.50	4.95	1.69	1.49	3.68	3.95	1.19
		s	0.60	0.56	0.05	0.17	0.18	0.02	0.06	0.32	0.02
		CV	9.99	29.12	4.71	4.86	14.60	2.36	2.31	11.46	2.38
	5.0	1	6.80	2.96	1.44	4.44	2.67	1.37	3.40	2.80	1.28
		2	7.83	2.38	1.51	6.59	2.72	1.42	3.74	4.73	1.13
		$\bar{X}$	7.31	2.67	1.47	5.51	2.69	1.39	3.57	3.76	1.20
		s	0.51	0.29	0.03	1.07	0.03	0.02	0.17	0.96	0.07
		CV	9.96	15.36	3.36	27.57	1.31	2.53	6.73	36.25	8.80

Appendix G. (Continued)

Date	Depth (m)	Sample No.	TRM 478.2			TRM 483.4			TRM 490.5		
			Chl a Mg/M ³	Pheo a Mg/M ³	Pheo Index	Chl a Mg/M ³	Pheo a Mg/M ³	Pheo Index	Chl a Mg/M ³	Pheo a Mg/M ³	Pheo Index
Nov 82	0.3	1	1.85	0.72	1.45	2.26	0.56	1.54	2.50	1.39	1.38
		2	1.94	0.45	1.55	2.57	0.00	1.77	2.60	0.67	1.53
		$\bar{X}$	1.89	0.58	1.50	2.41	0.28	1.65	2.55	1.03	1.45
		s	0.04	0.14	0.05	0.16	0.28	0.11	0.05	0.36	0.07
		CV	3.36	32.64	4.71	9.08	141.4	9.83	2.77	49.43	7.29
	1.0	1	1.94	0.45	1.55	2.26	0.56	1.54	2.07	2.00	1.20
		2	2.14	0.37	1.58	2.46	0.48	1.57	2.50	0.93	1.47
		$\bar{X}$	2.04	0.41	1.56	2.36	0.52	1.55	2.28	1.46	1.33
		s	0.10	0.04	0.02	0.10	0.04	0.01	0.22	0.54	0.13
		CV	6.93	13.80	1.36	5.99	10.88	1.36	13.31	51.65	14.30
	3.0	1	2.16	0.37	1.58	2.14	0.37	1.58	2.46	0.48	1.57
		2	2.26	0.56	1.54	2.05	1.09	1.38	2.38	0.75	1.50
		$\bar{X}$	2.21	0.46	1.56	2.09	0.73	1.48	2.42	0.61	1.53
		s	0.05	0.09	0.02	0.05	0.36	0.10	0.04	0.14	0.04
		CV	3.20	28.89	1.81	3.04	69.74	9.56	2.34	31.04	3.22
	5.0	1	2.02	0.19	1.64	2.05	0.19	1.64	2.38	1.20	1.40
		2	1.92	0.45	1.55	2.16	1.28	1.36	2.24	1.01	1.43
		$\bar{X}$	1.97	0.32	1.59	2.10	0.73	1.50	2.31	1.10	1.41
		s	0.05	0.13	0.04	0.06	0.54	0.14	0.07	0.09	0.02
		CV	3.59	57.45	3.99	3.70	104.9	13.20	4.29	12.16	1.50

*Tennessee River Mile (TRM), Samples for TRM 478.2 Actually Came from TRM 480.8 in February.

†Chlorophyll.

‡Phaeophytin.

\$Mean.

#Standard Deviation.

#Coefficient Variation.

APPENDIX H

CARBON ASSIMILATION RATES AT EACH SAMPLE
LOCATION, OPERATIONAL MONITORING (1982),
SEQUOYAH NUCLEAR PLANT, CHICKAMAUGA RESERVOIR

Appendix H. Carbon Assimilation Rates at Each Sample Location Operational Monitoring (1982), Sequoyah Nuclear Plant, Chickamauga Reservoir

Date	Depth(m)	Sample No.	MG C/M ³ /Hour		
			TRM [*] 478.2	TRM 483.4	TRM 490.5
Feb 82	0.3	1	1.59	2.55	1.71
		2	1.43	2.13	1.97
		$\bar{X}$	1.51	2.34	1.84
		s	0.11	0.30	0.19
		CV [§]	7.47	12.62	10.21
	1.0	1	1.55	2.24	1.80
		2	1.72	2.12	1.66
		$\bar{X}$	1.64	2.18	1.73
		s	0.13	0.08	0.10
		CV	7.67	3.77	5.79
	3.0	1	0.39	0.47	0.00
		2	0.48	0.51	0.32
		$\bar{X}$	0.43	0.49	0.16
		s	0.06	0.02	0.23
		CV	14.43	5.05	141.42
	5.0	1	0.17	0.36	0.07
		2	0.08	0.32	0.00
		$\bar{X}$	0.12	0.34	0.03
		s	0.07	0.03	0.05
		CV	53.87	8.53	141.42
May 82	0.3	1	12.90	7.12	12.79
		2	15.08	7.69	12.39
		$\bar{X}$	13.99	7.40	12.59
		s	1.54	0.40	0.28
		CV	10.99	5.41	2.26
	1.0	1	14.89	9.07	13.42
		2	18.62	8.99	14.01
		$\bar{X}$	16.75	9.03	13.71
		s	2.64	0.06	0.42
		CV	15.74	0.62	3.06
	3.0	1	7.96	2.70	16.19
		2	8.21	2.69	12.84
		$\bar{X}$	8.09	2.69	14.52
		s	0.18	0.01	2.37
		CV	2.23	0.35	16.33

Appendix H. (Continued)

Date	Depth(m)	Sample No.	MG C/M ³ /Hour		
			TRM 478.2	TRM 483.4	TRM 490.5
Aug 82	5.0	1	1.16	0.00	2.45
		2	0.75	0.20	2.23
		$\bar{X}$	0.96	0.10	2.34
		s	0.28	0.14	0.16
		CV	29.73	141.42	6.81
	0.3	1	52.83	18.54	13.96
		2	51.49	18.79	12.06
		$\bar{X}$	52.16	18.67	13.01
		s	0.95	0.17	1.35
		CV	1.82	0.93	10.35
	1.0	1	49.57	12.46	12.44
		2	43.18	15.39	11.34
		$\bar{X}$	46.38	13.92	11.89
		s	4.52	2.07	0.78
		CV	9.74	14.90	6.55
	3.0	1	12.15	3.22	3.79
		2	10.12	4.04	3.16
		$\bar{X}$	11.13	3.63	3.48
		s	1.44	0.58	0.45
		CV	12.93	15.87	12.94
	5.0	1	2.21	0.70	0.75
		2	1.76	0.64	0.73
		$\bar{X}$	1.98	0.67	0.74
		s	0.32	0.04	0.02
		CV	16.31	6.12	2.59
Nov 82	0.3	1	2.75	1.85	1.97
		2	2.58	2.76	1.99
		$\bar{X}$	2.67	2.31	1.98
		s	0.12	0.65	0.02
		CV	4.69	27.98	0.87
	1.0	1	2.17	3.36	1.80
		2	2.98	4.24	2.25
		$\bar{X}$	2.58	3.80	2.02
		s	0.57	0.62	0.32
		CV	22.12	16.35	15.73
	3.0	1	1.36	0.82	0.36
		2	1.44	1.12	0.59
		$\bar{X}$	1.40	0.97	0.48
		s	0.05	0.21	0.16
		CV	3.81	21.23	34.25

Appendix H. (Continued)

Date	Depth(m)	Sample No.	MG C/M ³ /Hour		
			TRM 478.2	TRM 483.4	TRM 490.5
	5.0	1	0.44	0.02	0.34
		2	0.28	0.24	0.08
		$\bar{X}$	0.36	0.13	0.21
		s	0.11	0.16	0.18
		CV	30.12	123.17	89.32

* Samples Were Collected at Tennessee River Mile 480.8 in February.

† Mean.

‡ Standard Deviation.

§ Coefficient Variation.

APPENDIX I

MEAN, STANDARD DEVIATION, RANGE, AND
COEFFICIENT OF VARIATION OF ORGANISM DENSITIES
FOR EACH ZOOPLANKTON TAXON DURING OPERATIONAL
MONITORING (1982), SEQUOYAH NUCLEAR PLANT,
CHICKAMAUGA RESERVOIR

Appendix I. Mean, Standard Deviation, Range, and Coefficient of Variation of Organism Densities for Each Zooplankton Taxon During Operational Monitoring (1982), Sequoyah Nuclear Plant, Chickamauga Reservoir

SEQUOYAH ZOOPLANKTON CALCULATIONS									
FEBRUARY 1982 - NOVEMBER 1982									
STATISTICS FOR INDIVIDUAL TAXA - NUMBER/M3									
----- RIVER=TENNESSEE RIV_MILE=480.8 SAM_LOC=A0 DATE=24FEB82 DEPTH=VERT -----									
TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ALONA QUADRANGULARIS	CLADOCERA	2	0.5	0.71	0	1	1	0.5	141.421
BOSMINA LONGIROSTRIS	CLADOCERA	2	2264.0	117.38	2181	2347	4528	83.0	5.185
CHYDORUS SP.	CLADOCERA	2	44.0	26.87	25	63	88	19.0	61.068
DAPHNIA AMBIGUA	CLADOCERA	2	1.0	1.41	0	2	2	1.0	141.421
DAPHNIA IMM.	CLADOCERA	2	16.5	20.51	2	31	33	14.5	124.279
DAPHNIA PULEX	CLADOCERA	2	1.0	1.41	0	2	2	1.0	141.421
DAPHNIA RETROCURVA	CLADOCERA	2	16.5	20.51	2	31	33	14.5	124.279
LEYDIGIA QUADRANGULARIS	CLADOCERA	2	3.0	4.24	0	6	6	3.0	141.421
PLEUROXUS HAMULATUS	CLADOCERA	2	15.5	21.92	0	31	31	15.5	141.421
SIMOCEPHALUS SERRULATUS	CLADOCERA	2	0.5	0.71	0	1	1	0.5	141.421
CALANOIDA IMM.	COPEPODA	2	53.5	31.82	31	76	107	22.5	59.476
CYCLOPOIDA IMM.	COPEPODA	2	2279.0	892.37	1648	2910	4558	631.0	39.156
CYCLOPS BICUSPIDATUS THOMASI	COPEPODA	2	884.0	210.72	735	1033	1768	149.0	23.837
CYCLOPS VERNALIS	COPEPODA	2	1.0	1.41	0	2	2	1.0	141.421
DIAPTOMUS PALLIDUS	COPEPODA	2	11.0	4.24	8	14	22	3.0	38.569
MESOCYCLOPS EDAX	COPEPODA	2	14.5	14.85	4	25	29	10.5	102.409
NAUPLII	COPEPODA	2	3185.5	4432.85	51	6320	6371	3134.5	139.157
THOPOCYCLOPS PRASINUS	COPEPODA	2	3.0	4.24	0	6	6	3.0	141.421
ASPLANCHNA HERRICKI	ROTIFERA	2	100.5	34.65	76	125	201	24.5	34.476
BRACHIONUS ANGULARIS	ROTIFERA	2	171.0	152.74	63	279	342	108.0	89.319
BRACHIONUS CALYCIFLORUS	ROTIFERA	2	15.5	21.92	0	31	31	15.5	141.421
BRACHIONUS CAUDATUS	ROTIFERA	2	145.5	116.67	63	228	291	82.5	80.187
BRACHIONUS QUADRIDENTATUS	ROTIFERA	2	25.5	36.06	0	51	51	25.5	141.421
CONOCHILUS UNICORNIS	ROTIFERA	2	12.5	17.68	0	25	25	12.5	141.421
EPIPHANES MACROURUS	ROTIFERA	2	41.0	14.14	31	51	82	10.0	34.493
EUCHLANIS SP.	ROTIFERA	2	12.5	17.68	0	25	25	12.5	141.421
FILINIA LONGISETA	ROTIFERA	2	59.5	48.79	25	94	119	34.5	82.001
KELICOTTIA LONGISPINA	ROTIFERA	2	264.5	20.51	250	279	529	14.5	7.753
KERATELLA COCHLEARIS	ROTIFERA	2	15.5	21.92	0	31	31	15.5	141.421
KERATELLA CRASSA	ROTIFERA	2	267.0	197.99	127	407	534	140.0	74.154
KERATELLA EARLINA	ROTIFERA	2	618.5	408.00	330	907	1237	288.5	65.966
KERATELLA QUADRATA	ROTIFERA	2	12.5	17.68	0	25	25	12.5	141.421
KERATELLA VALGA	ROTIFERA	2	15.5	21.92	0	31	31	15.5	141.421
NOTHOLCA SP.	ROTIFERA	2	12.5	17.68	0	25	25	12.5	141.421
POLYARTHRA SP.	ROTIFERA	2	1161.5	171.83	1040	1283	2323	121.5	14.794
SYNCHAETA SP.	ROTIFERA	2	1075.5	337.29	837	1314	2151	238.5	31.361

SEQUOYAH ZOOPLANKTON CALCULATIONS
FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/M3

RIVER=TENNESSEE RIV_MILE=483.4 SAM_LOC=AC DATE=24FEB82 DEPTH=VERT

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ALONA QUADRANGULARIS	CLADOCERA	2	0.5	0.71	0	1	1	0.5	141.421
BUSMINA LONGIROSTRIS	CLADOCERA	2	4155.0	1248.75	3272	5038	8310	883.0	30.054
CHYDORUS SP.	CLADOCERA	2	68.5	28.99	48	89	137	20.5	42.323
DAPHNIA IMM.	CLADOCERA	2	0.5	0.71	0	1	1	0.5	141.421
DAPHNIA PARVULA	CLADOCERA	2	0.5	0.71	0	1	1	0.5	141.421
DAPHNIA RETROCURVA	CLADOCERA	2	0.5	0.71	0	1	1	0.5	141.421
EURYCERCUS LAMELLATUS	CLADOCERA	2	0.5	0.71	0	1	1	0.5	141.421
EURYCERCUS SP.	CLADOCERA	2	0.5	0.71	0	1	1	0.5	141.421
LEYDIGIA QUADRANGULARIS	CLADOCERA	2	6.0	5.66	2	10	12	4.0	94.281
PLEUROXUS DENTICULATUS	CLADOCERA	2	0.5	0.71	0	1	1	0.5	141.421
PLEUROXUS HAMULATUS	CLADOCERA	2	0.5	0.71	0	1	1	0.5	141.421
CALANOIDA IMM.	COPEPODA	2	94.5	70.00	45	144	189	49.5	74.078
CYCLOPOIDA IMM.	COPEPODA	2	1960.5	348.60	1714	2207	3921	246.5	17.781
CYCLOPS BICUSPIDATUS THOMASI	COPEPODA	2	1436.5	614.48	1002	1871	2873	434.5	42.776
CYCLOPS VERNALIS	COPEPODA	2	11.0	15.56	0	22	22	11.0	141.421
DIAPTOMUS PALLIDUS	COPEPODA	2	25.5	13.44	16	35	51	9.5	52.686
DIAPTOMUS REIGHARDI	COPEPODA	2	2.0	2.83	0	4	4	2.0	141.421
DIAPTOMUS SANGUINEUS	COPEPODA	2	1.0	0.00	1	1	2	0.0	0.000
EUCYCLOPS AGILIS	COPEPODA	2	0.5	0.71	0	1	1	0.5	141.421
MESOCYCLOPS EDAX	COPEPODA	2	25.0	32.53	2	48	50	23.0	130.108
NAUPLII	COPEPODA	2	6158.5	1877.37	4831	7486	12317	1327.5	30.484
TROPOCYCLOPS PRASINUS	COPEPODA	2	0.5	0.71	0	1	1	0.5	141.421
ASPLANCHNA HERRICKI	ROTIFERA	2	22.5	31.82	0	45	45	22.5	141.421
BRACHIONUS CAUDATUS	ROTIFERA	2	22.5	31.82	0	45	45	22.5	141.421
EPIPHANES MACROURUS	ROTIFERA	2	11.0	15.56	0	22	22	11.0	141.421
EUCHLAVIS SP.	ROTIFERA	2	11.0	15.56	0	22	22	11.0	141.421
FILINIA LONGISETA	ROTIFERA	2	92.5	4.95	89	96	185	3.5	5.351
KELICOTTIA BOSTONIENSIS	ROTIFERA	2	48.0	67.88	0	96	96	48.0	141.421
KELICOTTIA LONGISPINA	ROTIFERA	2	329.0	213.55	178	480	658	151.0	64.908
KERATELLA COCHLEARIS	ROTIFERA	2	33.5	47.38	0	67	67	33.5	141.421
KERATELLA CRASSA	ROTIFERA	2	490.0	189.50	356	624	980	134.0	38.674
KERATELLA EARLINA	ROTIFERA	2	776.5	531.04	401	1152	1553	375.5	68.389
NOTHOLCA SP.	ROTIFERA	2	48.0	67.88	0	96	96	48.0	141.421
POLYARTHA SP.	ROTIFERA	2	1010.0	200.82	868	1152	2020	142.0	19.883
SYNCHAETA SP.	ROTIFERA	2	1847.5	440.53	1536	2159	3695	311.5	23.845
TESTUDINELLA SP.	ROTIFERA	2	11.0	15.56	0	22	22	11.0	141.421

SEQUOYAH ZOOPLANKTON CALCULATIONS
FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/M3

----- RIVER=TENNESSEE RIV_MILE=490.5 SAM_LOC=AQ DATE=24FEB82 DEPTH=VERT -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ALONA QUADRANGULARIS	CLADOCERA	2	0.5	0.71	0	1	1	0.5	141.421
BOSMINA LONGIROSTRIS	CLADOCERA	2	3085.5	385.37	2813	3358	6171	272.5	12.490
CHYDORUS SP.	CLADOCERA	2	63.0	29.70	42	84	126	21.0	47.140
DAPHNIA AMBIGUA	CLADOCERA	2	0.5	0.71	0	1	1	0.5	141.421
LEYDIGIA QUADRANGULARIS	CLADOCERA	2	12.0	12.73	3	21	24	9.0	106.066
SIDA CRYSTALLINA	CLADOCERA	2	0.5	0.71	0	1	1	0.5	141.421
SIMOCEPHALUS SERRULATUS	CLADOCERA	2	0.5	0.71	0	1	1	0.5	141.421
CALANOIDA IMM.	COPEPODA	2	115.5	13.44	106	125	231	9.5	11.632
CYCLOPOIDA IMM.	COPEPODA	2	2086.0	231.93	1922	2250	4172	164.0	11.118
CYCLOPS BICUSPIDATUS THOMASI	COPEPODA	2	1309.0	387.49	1035	1583	2618	274.0	29.602
DIAPTOMUS PALLIDUS	COPEPODA	2	20.5	0.71	20	21	41	0.5	3.449
DIAPTOMUS REIGHARDI	COPEPODA	2	2.5	3.54	0	5	5	2.5	141.421
EUCYCLOPS SPERATUS	COPEPODA	2	0.5	0.71	0	1	1	0.5	141.421
NAUPLII	COPEPODA	2	2684.0	1968.59	1292	4076	5368	1392.0	73.345
PARACYCLOPS FIMBRIATUS POPPE2	COPEPODA	2	0.5	0.71	0	1	1	0.5	141.421
TROPOCYCLOPS PRASINUS	COPEPODA	2	0.5	0.71	0	1	1	0.5	141.421
ASPLANCHNA HERRICKI	ROTIFERA	2	10.5	14.85	0	21	21	10.5	141.421
BRACHIONUS QUADRIDENTATUS	ROTIFERA	2	21.0	29.70	0	42	42	21.0	141.421
EPIPHANES MACROURUS	ROTIFERA	2	21.0	0.00	21	21	42	0.0	0.000
EUCHLANIS SP.	ROTIFERA	2	10.5	14.85	0	21	21	10.5	141.421
FILINIA LONGISETA	ROTIFERA	2	10.5	14.85	0	21	21	10.5	141.421
KELICOTTIA BOSTONIENSIS	ROTIFERA	2	10.5	14.85	0	21	21	10.5	141.421
KELICOTTIA LONGISPINA	ROTIFERA	2	116.0	134.35	21	211	232	95.0	115.819
KERATELLA CRASSA	ROTIFERA	2	178.5	75.66	125	232	357	53.5	42.387
KERATELLA EARLINA	ROTIFERA	2	95.0	45.25	63	127	190	32.0	47.637
KERATELLA SP.	ROTIFERA	2	10.5	14.85	0	21	21	10.5	141.421
POLYARTHRA SP.	ROTIFERA	2	315.0	2.83	313	317	630	2.0	0.898
SYNCHAETA SP.	ROTIFERA	2	851.0	230.52	688	1014	1702	163.0	27.088

SEQUOYAH ZOOPLANKTON CALCULATIONS
FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/M3

RIVER=TENNESSEE RIV_MILE=478.2 SAM_LOC=A0 DATE=03MAY82 DEPTH=VERT

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
BOSMINA LONGIROSTRIS	CLADOCERA	2	25323.5	501.3	24969	25678	50647	354.5	1.980
CERIODAPHNIA QUADRANGULA	CLADOCERA	2	0.5	0.7	0	1	1	0.5	141.421
DAPHNIA AMBIGUA	CLADOCERA	2	8.0	1.4	7	9	16	1.0	17.678
DAPHNIA IMM.	CLADOCERA	2	1974.0	134.4	1879	2069	3948	95.0	6.806
DAPHNIA PARVULA	CLADOCERA	2	147.5	13.4	138	157	295	9.5	9.108
DAPHNIA PULEX	CLADOCERA	2	3.5	0.7	3	4	7	0.5	20.203
DAPHNIA RETROCURVA	CLADOCERA	2	426.0	504.9	69	783	852	357.0	118.515
DIAPHANOSOMA LEUCHTENBERGIANUM	CLADOCERA	2	1.0	0.0	1	1	2	0.0	0.000
HOLOPEDIDUM GIBBERUM	CLADOCERA	2	0.5	0.7	0	1	1	0.5	141.421
LEPTODORA KINUTII	CLADOCERA	2	3.5	3.5	1	6	7	2.5	101.015
SIDA CRYSTALLINA	CLADOCERA	2	1.0	0.0	1	1	2	0.0	0.000
SIMOCEPHALUS SERRULATUS	CLADOCERA	2	0.5	0.7	0	1	1	0.5	141.421
CALANOIDA IMM.	COPEPODA	2	5.0	4.2	2	8	10	3.0	84.853
CYCLOPUS IMM.	COPEPODA	2	5025.5	864.8	4414	5637	10051	611.5	17.208
CYCLOPUS BICUSPIDATUS THOMASI	COPEPODA	2	1482.0	339.4	1242	1722	2964	240.0	22.902
CYCLOPUS VERNALIS	COPEPODA	2	141.0	190.9	6	276	282	135.0	135.403
DIAPTOMUS PALLIDUS	COPEPODA	2	1.0	0.0	1	1	2	0.0	0.000
DIAPTOMUS REIGHARDI	COPEPODA	2	11.5	2.1	10	13	23	1.5	18.446
MESOCYCLOPS EDAX	COPEPODA	2	271.0	281.4	72	470	542	199.0	103.848
NAUPLII	COPEPODA	2	17105.0	388.9	16830	17380	34210	275.0	2.274
ASPLANCHNA AMPHORA	ROTIFERA	2	69.0	97.6	0	138	138	69.0	141.421
ASPLANCHNA HERRICKI	ROTIFERA	2	35033.5	9355.7	28418	41649	70067	6615.5	26.705
BRACHIONUS QUADRIDENTATUS	ROTIFERA	2	69.0	97.6	0	138	138	69.0	141.421
COLLOTHECA SP.	ROTIFERA	2	207.0	292.7	0	414	414	207.0	141.421
CONOCHILUS UNICORNIS	ROTIFERA	2	51418.5	23162.7	35040	67797	102837	16378.5	45.047
KELICOTIA LONGISPINA	ROTIFERA	2	69.0	97.6	0	138	138	69.0	141.421
KERATELLA COCHLEARIS	ROTIFERA	2	304.0	234.8	138	470	608	166.0	77.224
KERATELLA CRASSA	ROTIFERA	2	1952.0	1004.1	1242	2662	3904	710.0	51.439
KERATELLA EARLINA	ROTIFERA	2	15863.5	2144.7	14347	17380	31727	1516.5	13.519
POLYARTHRA SP.	ROTIFERA	2	5257.0	2752.1	3311	7203	10514	1946.0	52.350
SYNCHAETA SP.	ROTIFERA	2	2319.0	622.3	1879	2759	4638	440.0	26.833

SEQUOYAH ZOOPLANKTON CALCULATIONS
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STATISTICS FOR INDIVIDUAL TAXA - NUMBER/M3

----- RIVER=TENNESSEE RIV_MILE=483.4 SAM_LOC=AC DATE=03MAY82 DEPTH=VERT -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
BOSMINA LONGIROSTRIS	CLADOCERA	2	48966.0	10049.4	41860	56072	97932	7106.0	20.523
DAPHNIA AMBIGUA	CLADOCERA	2	157.5	3.5	155	160	315	2.5	2.245
DAPHNIA IMM.	CLADOCERA	2	1582.0	610.9	1150	2014	3164	432.0	38.618
DAPHNIA PARVULA	CLADOCERA	2	400.0	127.3	310	490	800	90.0	31.820
DAPHNIA PULEX	CLADOCERA	2	2.5	0.7	2	3	5	0.5	28.284
DAPHNIA RETROCURVA	CLADOCERA	2	312.5	215.7	160	465	625	152.5	69.014
DIAPHANOSOMA LEUCHTENBERGIANUM	CLADOCERA	2	2.0	2.8	0	4	4	2.0	141.421
LEPTODORA KINDII	CLADOCERA	2	15.0	7.1	10	20	30	5.0	47.140
SIDA CRYSTALLINA	CLADOCERA	2	2.0	1.4	1	3	4	1.0	70.711
CALANOIDA IMM.	COPEPODA	2	84.5	106.8	9	160	169	75.5	126.359
CYCLOPOIDA IMM.	COPEPODA	2	10416.5	164.8	10300	10533	20833	116.5	1.582
CYCLOPS BICUSPIDATUS THOMASI	COPEPODA	2	3504.0	135.8	3408	3600	7008	96.0	3.875
CYCLOPS VERNALIS	COPEPODA	2	165.0	205.1	20	310	330	145.0	124.279
DIAPTOMUS MISSISSIPPIENSIS	COPEPODA	2	0.5	0.7	0	1	1	0.5	141.421
DIAPTOMUS PALLIDUS	COPEPODA	2	5.5	2.1	4	7	11	1.5	38.569
DIAPTOMUS REIGHARDI	COPEPODA	2	12.0	2.8	10	14	24	2.0	23.570
MESOCYCLOPS EDAX	COPEPODA	2	555.0	91.9	490	620	1110	65.0	16.563
NAUPLII	COPEPODA	2	21969.0	3322.0	19620	24318	43938	2349.0	15.121
ASPLANCHNA HERRICKI	ROTIFERA	2	26279.5	6646.1	21580	30979	52559	4699.5	25.290
BRACHIONUS CALYCIFLORUS	ROTIFERA	2	709.5	310.4	490	929	1419	219.5	43.752
CONOCHILUS UNICORNIS	ROTIFERA	2	75318.0	45399.1	43216	107420	150636	32102.0	60.277
KELICOTTIA BOSTONIENSIS	ROTIFERA	2	80.0	113.1	0	160	160	80.0	141.421
KELICOTTIA LONGISPINA	ROTIFERA	2	397.5	95.5	330	465	795	67.5	24.015
KERATELLA COCHLEARIS	ROTIFERA	2	77.5	109.6	0	155	155	77.5	141.421
KERATELLA CRASSA	ROTIFERA	2	2087.0	980.0	1394	2780	4174	693.0	46.980
KERATELLA EARLINA	ROTIFERA	2	10405.5	5000.0	6870	13941	20811	3535.5	48.051
POLYARTHRA SP.	ROTIFERA	2	4707.5	3418.9	2290	7125	9415	2417.5	72.626
SYNCHAETA SP.	ROTIFERA	2	3833.0	3341.8	1470	6196	7666	2363.0	87.185

SEQUOYAH ZOOPLANKTON CALCULATIONS
FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/M3

----- RIVER=TENNESSEE RIV_MILE=490.5 SAM_LOC=AQ DATE=03MAY82 DEPTH=VERT -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ALONA QUADRANGULARIS	CLADOCERA	2	1	0.7	0	1	1	0.5	141.421
BOSMINA LONGIROSTRIS	CLADOCERA	2	46790	8725.7	40620	52960	93580	6170.0	18.649
CERIODAPHNIA LACUSTRIS	CLADOCERA	2	1	1.4	0	2	2	1.0	141.421
CERIODAPHNIA QUADRANGULA	CLADOCERA	2	181	253.9	1	360	361	179.5	140.638
DAPHNIA AMBIGUA	CLADOCERA	2	25	7.1	20	30	50	5.0	28.284
DAPHNIA IMM.	CLADOCERA	2	925	304.1	710	1140	1850	215.0	32.871
DAPHNIA PARVULA	CLADOCERA	2	80	28.3	60	100	160	20.0	35.355
DAPHNIA PULEX	CLADOCERA	2	1	1.4	0	2	2	1.0	141.421
DAPHNIA RETROCURVA	CLADOCERA	2	50	14.1	40	60	100	10.0	28.284
DIAPHANOSOMA LEUCHTENBERGIANUM	CLADOCERA	2	185	247.5	10	360	370	175.0	133.777
HOLOPEDIUM GIBBERUM	CLADOCERA	2	1	0.7	0	1	1	0.5	141.421
LEPTODORA KINDIII	CLADOCERA	2	2	0.7	1	2	3	0.5	47.140
CALANUIDA IMM.	COPEPODA	2	395	445.5	80	710	790	315.0	112.779
CYCLOPOIDA IMM.	COPEPODA	2	5875	2241.5	4290	7460	11750	1585.0	38.154
CYCLOPS BICUSPIDATUS THOMASI	COPEPODA	2	325	49.5	290	360	650	35.0	15.230
CYCLOPS VERNALIS	COPEPODA	2	170	169.7	50	290	340	120.0	99.827
DIAPTOMUS PALLIDUS	COPEPODA	2	6	5.7	2	10	12	4.0	94.281
DIAPTOMUS REIGHARDI	COPEPODA	2	6	5.7	2	10	12	4.0	94.281
MESOCYCLOPS EDAX	COPEPODA	2	65	7.1	60	70	130	5.0	10.879
NAUPLII	COPEPODA	2	21610	3422.4	19190	24030	43220	2420.0	15.837
ASPLANCHNA HERRICKI	ROTIFERA	2	180070	33375.4	156470	203670	360140	23600.0	18.535
BRACHIONUS CALYCIFLORUS	ROTIFERA	2	12580	806.1	12010	13150	25160	570.0	6.408
CONOCHILUS UNICORNIS	ROTIFERA	2	63855	14248.2	53780	73930	127710	10075.0	22.313
GASTROPUS SP.	ROTIFERA	2	355	502.0	0	710	710	355.0	141.421
KELICOTTIA LONGISPINA	ROTIFERA	2	965	148.5	860	1070	1930	105.0	15.388
KERATELLA COCHLEARIS	ROTIFERA	2	180	254.6	0	360	360	180.0	141.421
KERATELLA CRASSA	ROTIFERA	2	1855	615.2	1420	2290	3710	435.0	33.163
KERATELLA EARLINA	ROTIFERA	2	13330	2262.7	11730	14930	26660	1600.0	16.975
PLOESOMA TRUNCATA	ROTIFERA	2	285	403.1	0	570	570	285.0	141.421
POLYARTHRA SP.	ROTIFERA	2	7195	2892.1	5150	9240	14390	2045.0	40.196
SYNCHAETA SP.	ROTIFERA	2	42265	24176.0	25170	59360	84530	17095.0	57.201
TRICHO CERCA SP.	ROTIFERA	2	180	254.6	0	360	360	180.0	141.421

SEQUOYAH ZOOPLANKTON CALCULATIONS
FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/M3

----- RIVER=TENNESSEE RIV_MILE=478.2 SAM_LOC=A0 DATE=03AUG82 DEPTH=VERT -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
BOSMINA LONGIROSTRIS	CLADOCERA	2	46772.5	5196.53	43098	50447	93545	3674.5	11.110
CAMPTOCERCUS RECTIROSTRIS	CLADOCERA	2	1.5	2.12	0	3	3	1.5	141.421
CERIODAPHNIA IMM.	CLADOCERA	2	41.0	56.57	1	81	82	40.0	137.972
CERIODAPHNIA LACUSTRIS	CLADOCERA	2	50.0	43.84	19	81	100	31.0	87.681
DAPHNIA IMM.	CLADOCERA	2	206.0	53.74	168	244	412	38.0	26.087
DAPHNIA PARVULA	CLADOCERA	2	52.0	41.01	23	81	104	29.0	78.870
DAPHNIA RETROCURVA	CLADOCERA	2	413.5	10.61	406	421	827	7.5	2.565
DIAPHANOSOMA LEUCHTENBERGIANUM	CLADOCERA	2	947.5	267.99	758	1137	1895	189.5	28.284
ILYOCRYPTUS SPINIFER	CLADOCERA	2	4.0	5.66	0	8	8	4.0	141.421
LEPTODORA KINDTII	CLADOCERA	2	5.5	3.54	3	8	11	2.5	64.282
MOINA MINUTA	CLADOCERA	2	42.0	59.40	0	84	84	42.0	141.421
PLEUROXUS HAMULATUS	CLADOCERA	2	1.0	1.41	0	2	2	1.0	141.421
SIDA CRYSTALLINA	CLADOCERA	2	4.5	0.71	4	5	9	0.5	15.713
SIMOCEPHALUS SERRULATUS	CLADOCERA	2	1.0	1.41	0	2	2	1.0	141.421
CALANOIDA IMM.	COPEPODA	2	14.5	4.95	11	18	29	3.5	34.136
CYCLOPOIDA IMM.	COPEPODA	2	1935.5	594.68	1515	2356	3871	420.5	30.725
CYCLOPS BICUSPIDATUS THOMASI	COPEPODA	2	7.0	2.83	5	9	14	2.0	40.406
CYCLOPS VERNALIS	COPEPODA	2	4.0	1.41	3	5	8	1.0	35.355
DIAPTOMUS MISSISSIPPIENSIS	COPEPODA	2	1.5	2.12	0	3	3	1.5	141.421
DIAPTOMUS PALLIDUS	COPEPODA	2	9.5	4.95	6	13	19	3.5	52.103
DIAPTOMUS REIGHARDI	COPEPODA	2	1.0	1.41	0	2	2	1.0	141.421
ERGASILUS IMM.	COPEPODA	2	1.0	0.00	1	1	2	0.0	0.000
ERGASILUS SP.	COPEPODA	2	7.0	1.41	6	8	14	1.0	20.203
EUCYCLOPS AGILIS	COPEPODA	2	2.5	0.71	2	3	5	0.5	28.284
MACROCYCLOPS ALBIUS	COPEPODA	2	0.5	0.71	0	1	1	0.5	141.421
MESOCYCLOPS EDAX	COPEPODA	2	124.5	61.52	81	168	249	43.5	49.412
NAUPLII	COPEPODA	2	14921.5	150.61	14815	15028	29843	106.5	1.009
ASPLANCHNA AMPHORA	ROTIFERA	2	206.0	53.74	168	244	412	38.0	26.087
ASPLANCHNA HERRICKI	ROTIFERA	2	1027.0	500.63	673	1381	2054	354.0	48.747
BRACHIONUS ANGULARIS	ROTIFERA	2	5006.0	301.23	4793	5219	10012	213.0	6.017
BRACHIONUS BUDAPESTINENSIS	ROTIFERA	2	2182.5	704.99	1684	2681	4365	498.5	32.302
BRACHIONUS CAUDATUS	ROTIFERA	2	204.5	170.41	84	325	409	120.5	83.331
BRACHIONUS HAVANAENSIS	ROTIFERA	2	40.5	57.28	0	81	81	40.5	141.421
BRACHIONUS QUADRIDENTATUS	ROTIFERA	2	123.0	55.15	84	162	246	39.0	44.841
CEPHALODELLA SP.	ROTIFERA	2	40.5	57.28	0	81	81	40.5	141.421
CONOCHILOIDES SP.	ROTIFERA	2	12181.0	1155.41	11364	12998	24362	817.0	9.485
CONOCHILUS HIPPOCREPIS	ROTIFERA	2	124.5	61.52	81	168	249	43.5	49.412
CONOCHILUS UNICORNIS	ROTIFERA	2	26212.5	3024.30	24074	28351	52425	2138.5	11.538
HEXARTHRA INTERMEDIA	ROTIFERA	2	2798.5	982.17	2104	3493	5597	694.5	35.096
KERATELLA AMERICANA	ROTIFERA	2	40.5	57.28	0	81	81	40.5	141.421
KERATELLA CRASSA	ROTIFERA	2	1232.0	670.34	758	1706	2464	474.0	54.410
LECANE LEONTINA	ROTIFERA	2	42.0	59.40	0	84	84	42.0	141.421
MONOSTYLA BULLA	ROTIFERA	2	40.5	57.28	0	81	81	40.5	141.421
MONOSTYLA QUADRIDENTATA	ROTIFERA	2	42.0	59.40	0	84	84	42.0	141.421
MONOSTYLA SP.	ROTIFERA	2	82.5	2.12	81	84	165	1.5	2.571
PLATYIAS PATULUS	ROTIFERA	2	370.0	165.46	253	487	740	117.0	44.720
PLOESOMA TRUNCATA	ROTIFERA	2	988.5	325.98	758	1219	1977	230.5	32.977
POLYARTHRA SP.	ROTIFERA	2	3378.0	967.32	2694	4062	6756	684.0	28.636
SYNCHAETA SP.	ROTIFERA	2	1722.0	1125.71	926	2518	3444	796.0	65.372
TESTUDINELLA SP.	ROTIFERA	2	42.0	59.40	0	84	84	42.0	141.421
TRICHOCERCA SP.	ROTIFERA	2	616.5	276.48	421	812	1233	195.5	44.847

SEQUOYAH ZOOPLANKTON CALCULATIONS
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STATISTICS FOR INDIVIDUAL TAXA - NUMBER/M3

----- RIVER=TENNESSEE RIV_MILE=483.4 SAM_LOC=AC DATE=03AUG82 DEPTH=VERT -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
BOSMINA LONGIROSTRIS	CLADOCERA	2	7760.0	1395.83	6773	8747	15520	987.0	17.987
CAMPTOCERCUS RECTIROSTRIS	CLADOCERA	2	16.5	23.33	0	33	33	16.5	141.421
CERIODAPHNIA IMM.	CLADOCERA	2	0.5	0.71	0	1	1	0.5	141.421
CHYDORUS SP.	CLADOCERA	2	33.0	45.25	1	65	66	32.0	137.136
DAPHNIA IMM.	CLADOCERA	2	62.0	4.24	59	65	124	3.0	6.843
DAPHNIA PARVULA	CLADOCERA	2	9.0	1.41	8	10	18	1.0	15.713
DAPHNIA RETROCURVA	CLADOCERA	2	62.0	4.24	59	65	124	3.0	6.843
DIAPHANOSOMA LEUCHTENBERGIANUM	CLADOCERA	2	516.5	269.41	326	707	1033	190.5	52.160
ILYOCRYPTUS IMM.	CLADOCERA	2	1.0	1.41	0	2	2	1.0	141.421
ILYOCRYPTUS SPINIFER	CLADOCERA	2	33.5	44.55	2	65	67	31.5	132.978
LEPTODORA KINDTII	CLADOCERA	2	2.5	2.12	1	4	5	1.5	84.853
MACROTHRIX ROSEA	CLADOCERA	2	16.0	18.38	3	29	32	13.0	114.905
MOINA MINUTA	CLADOCERA	2	0.5	0.71	0	1	1	0.5	141.421
SIDA CRYSTALLINA	CLADOCERA	2	18.0	21.21	3	33	36	15.0	117.851
SIMOCEPHALUS SERRULATUS	CLADOCERA	2	0.5	0.71	0	1	1	0.5	141.421
CALANOIDA IMM.	COPEPODA	2	31.0	2.83	29	33	62	2.0	9.124
CYCLOPOIDA IMM.	COPEPODA	2	740.0	77.78	685	795	1480	55.0	10.511
CYCLOPS BICUSPIDATUS THOMASI	COPEPODA	2	124.5	9.19	118	131	249	6.5	7.383
CYCLOPS VERNALIS	COPEPODA	2	1.0	1.41	0	2	2	1.0	141.421
DIAPTOMUS MISSISSIPPIENSIS	COPEPODA	2	4.0	1.41	3	5	8	1.0	35.355
DIAPTOMUS PALLIDUS	COPEPODA	2	20.0	18.38	7	33	40	13.0	91.924
DIAPTOMUS REIGHARDI	COPEPODA	2	1.0	1.41	0	2	2	1.0	141.421
ERGASILUS SP.	COPEPODA	2	33.0	45.25	1	65	66	32.0	137.136
EUCYCLOPS AGILIS	COPEPODA	2	19.0	19.80	5	33	38	14.0	104.205
MACROCYCLOPS ALBIDUS	COPEPODA	2	0.5	0.71	0	1	1	0.5	141.421
MESOCYCLOPS EDAX	COPEPODA	2	108.0	14.14	98	118	216	10.0	13.095
NAUPLII	COPEPODA	2	7273.5	791.25	6714	7833	14547	559.5	10.879
ASPLANCHNA AMPHORA	ROTIFERA	2	73.5	103.94	0	147	147	73.5	141.421
ASPLANCHNA HERRICKI	ROTIFERA	2	420.0	52.33	383	457	840	37.0	12.459
BRACHIONUS ANGULARIS	ROTIFERA	2	2660.0	69.30	2611	2709	5320	49.0	2.605
BRACHIONUS BUDAPESTINENSIS	ROTIFERA	2	672.0	257.39	490	854	1344	182.0	38.302
BRACHIONUS CAUDATUS	ROTIFERA	2	80.0	72.12	29	131	160	51.0	90.156
BRACHIONUS QUADRIDENTATUS	ROTIFERA	2	49.0	69.30	0	98	98	49.0	141.421
COLLOTHECA SP.	ROTIFERA	2	31.0	2.83	29	33	62	2.0	9.124
CONOCHILOIDES SP.	ROTIFERA	2	3915.5	1248.04	3033	4798	7831	882.5	31.874
CONOCHILUS HIPPOCREPIS	ROTIFERA	2	294.0	0.00	294	294	588	0.0	0.000
CONOCHILUS UNICORNIS	ROTIFERA	2	11847.0	4385.48	8746	14948	23694	3101.0	37.018
CONTRACTED ROTIFERA	ROTIFERA	2	16.5	23.33	0	33	33	16.5	141.421
HEXARTHRA INTERMEDIA	ROTIFERA	2	98.0	138.59	0	196	196	98.0	141.421
HEXARTHRA SP.	ROTIFERA	2	235.5	333.05	0	471	471	235.5	141.421
KERATELLA AMERICANA	ROTIFERA	2	16.5	23.33	0	33	33	16.5	141.421
KERATELLA CRASSA	ROTIFERA	2	201.0	7.07	196	206	402	5.0	3.518
LECANE LEONTINA	ROTIFERA	2	78.5	27.58	59	98	157	19.5	35.130
LECANE SP.	ROTIFERA	2	93.0	7.07	88	98	186	5.0	7.603
MONOSTYLA QUADRIDENTATA	ROTIFERA	2	16.5	23.33	0	33	33	16.5	141.421
MONOSTYLA SP.	ROTIFERA	2	109.5	30.41	88	131	219	21.5	27.768
MYTILINA SP.	ROTIFERA	2	14.5	20.51	0	29	29	14.5	141.421
PLATYIAS TRULUS	ROTIFERA	2	142.0	76.37	88	196	284	54.0	53.780
PLOESOMA TRUNCATA	ROTIFERA	2	368.0	104.65	294	442	736	74.0	28.438
POLYARTHRA SP.	ROTIFERA	2	475.0	296.98	265	685	950	210.0	62.523
SYNCHAETA SP.	ROTIFERA	2	76.5	16.26	65	88	153	11.5	21.259

SEQUOYAH ZOOPLANKTON CALCULATIONS
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STATISTICS FOR INDIVIDUAL TAXA - NUMBER/M3

----- RIVER=TENNESSEE RIV_MILE=483.4 SAM_LOC=AC DATE=03AUG82 DEPTH=VERT -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
TRICHOCERCA SP.	ROTIFERA	2	299	131.522	206	392	598	93	43.9872

SEQUOYAH ZOOPLANKTON CALCULATIONS
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STATISTICS FOR INDIVIDUAL TAXA - NUMBER/M3

----- RIVER=TENNESSEE RIV_MILE=490.5 SAM_LOC=AQ DATE=03AUG82 DEPTH=VERT -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
BOSMINA LONGIROSTRIS	CLADOCERA	2	17510.5	3920.91	14738	20283	35021	2772.5	22.392
CAMPTOCERCUS RECTIROSTRIS	CLADOCERA	2	1.0	0.00	1	1	2	0.0	0.000
CERIODAPHNIA LACUSTRIS	CLADOCERA	2	1.5	2.12	0	3	3	1.5	141.421
DAPHNIA IMM.	CLADOCERA	2	529.0	90.51	465	593	1058	64.0	17.110
DAPHNIA PARVULA	CLADOCERA	2	66.5	34.65	42	91	133	24.5	52.103
DAPHNIA RETROCURVA	CLADOCERA	2	109.0	25.46	91	127	218	18.0	23.354
DIAPHANOSOMA LEUCHTENBERGIANUM	CLADOCERA	2	711.0	347.90	465	957	1422	246.0	48.931
ILYOCRYPTUS SORDIDUS	CLADOCERA	2	23.0	32.53	0	46	46	23.0	141.421
ILYOCRYPTUS SPINIFER	CLADOCERA	2	1.0	0.00	1	1	2	0.0	0.000
LEPTODORA KINDTII	CLADOCERA	2	3.5	2.12	2	5	7	1.5	60.609
MACROTHRIX ROSEA	CLADOCERA	2	21.0	29.70	0	42	42	21.0	141.421
PLEUROXUS DENTICULATUS	CLADOCERA	2	0.5	0.71	0	1	1	0.5	141.421
SIDA CRYSTALLINA	CLADOCERA	2	27.0	26.87	8	46	54	19.0	99.519
CALANOIDA IMM.	COPEPODA	2	11.0	4.24	8	14	22	3.0	38.569
CYCLOPOIDA IMM.	COPEPODA	2	1805.0	282.84	1605	2005	3610	200.0	15.670
CYCLOPS BICUSPIDATUS THOMASI	COPEPODA	2	0.5	0.71	0	1	1	0.5	141.421
CYCLOPS VERNALIS	COPEPODA	2	29.0	24.04	12	46	58	17.0	82.902
DIAPTOMUS MISSISSIPPIENSIS	COPEPODA	2	3.0	4.24	0	6	6	3.0	141.421
DIAPTOMUS PALLIDUS	COPEPODA	2	25.0	29.70	4	46	50	21.0	118.794
DIAPTOMUS REIGHARDI	COPEPODA	2	2.0	1.41	1	3	4	1.0	70.711
ERGASILUS SP.	COPEPODA	2	23.5	31.82	1	46	47	22.5	135.403
EUCYCLOPS AGILIS	COPEPODA	2	2.0	1.41	1	3	4	1.0	70.711
MESOCYCLOPS EDAX	COPEPODA	2	133.0	69.30	84	182	266	49.0	52.103
NAUPLII	COPEPODA	2	3318.0	1108.74	2534	4102	6636	784.0	33.416
ASPLANCHNA AMPHORA	ROTIFERA	2	66.5	34.65	42	91	133	24.5	52.103
ASPLANCHNA HERRICKI	ROTIFERA	2	270.0	263.04	84	456	540	186.0	97.424
BRACHIONUS ANGULARIS	ROTIFERA	2	2354.5	344.36	2111	2598	4709	243.5	14.626
BRACHIONUS BUDAPESTINENSIS	ROTIFERA	2	203.5	228.40	42	365	407	161.5	112.234
BRACHIONUS CALYCIFLORUS	ROTIFERA	2	44.0	2.83	42	46	88	2.0	6.428
BRACHIONUS CAUDATUS	ROTIFERA	2	66.5	34.65	42	91	133	24.5	52.103
COLLOTHECA SP.	ROTIFERA	2	23.0	32.53	0	46	46	23.0	141.421
CONUCHILOIDES SP.	ROTIFERA	2	1608.5	303.35	1394	1823	3217	214.5	18.859
CONUCHILUS UNICORNIS	ROTIFERA	2	6460.5	596.09	6039	6882	12921	421.5	9.227
HEXARTHRA SP.	ROTIFERA	2	84.5	119.50	0	169	169	84.5	141.421
KERATELLA CRASSA	ROTIFERA	2	86.5	57.28	46	127	173	40.5	66.215
LECANE LEONTINA	ROTIFERA	2	45.5	64.35	0	91	91	45.5	141.421
MONOSTYLA SP.	ROTIFERA	2	21.0	29.70	0	42	42	21.0	141.421
PLATYIAS PATULUS	ROTIFERA	2	105.5	149.20	0	211	211	105.5	141.421
PLOESOMA TRUNCATA	ROTIFERA	2	309.0	79.20	253	365	618	56.0	25.630
POLYARTHRA SP.	ROTIFERA	2	532.0	214.96	380	684	1064	152.0	40.406
SYNCHAETA SP.	ROTIFERA	2	200.0	103.24	127	273	400	73.0	51.619
TRICHOCERCA SP.	ROTIFERA	2	228.0	322.44	0	456	456	228.0	141.421

SEQUOYAH ZOOPLANKTON CALCULATIONS
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STATISTICS FOR INDIVIDUAL TAXA - NUMBER/M3

----- RIVER=TENNESSEE RIV_MILE=478.2 SAM_LOC=A0 DATE=16NOV82 DEPTH=VERT -----									
TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
BOSMINA LONGIROSTRIS	CLADOCERA	1	3648		3648	3648	3648		
BOSMINOPSIS SP.	CLADOCERA	1	7		7	7	7		
CAMPTOCERCUS RECTIROSTRIS	CLADOCERA	1	7		7	7	7		
CHYDORUS SP.	CLADOCERA	1	7		7	7	7		
DAPHNIA PARVULA	CLADOCERA	1	7		7	7	7		
LEPTODORA KINDTII	CLADOCERA	1	1		1	1	1		
CALANOIDA IMM.	COPEPODA	1	7		7	7	7		
CANTHOCAMPTUS ROBERTCOKERI	COPEPODA	1	1		1	1	1		
CYCLUPOIDA IMM.	COPEPODA	1	54		54	54	54		
CYCLOPS BICUSPIDATUS THOMASI	COPEPODA	1	61		61	61	61		
CYCLOPS VARICANS RUBELLUS	COPEPODA	1	7		7	7	7		
CYCLOPS VERNALIS	COPEPODA	1	27		27	27	27		
DIAPTOMUS REIGHARDI	COPEPODA	1	2		2	2	2		
MESOCYCLOPS EDAX	COPEPODA	1	7		7	7	7		
NAUPLII	COPEPODA	1	775		775	775	775		
TROPOCYCLOPS PRASINUS	COPEPODA	1	1		1	1	1		
ASPLANCHNA HERRICKI	ROTIFERA	1	88		88	88	88		
COLLUTHECA SP.	ROTIFERA	1	317		317	317	317		
CONOCHILUS UNICORNIS	ROTIFERA	1	20		20	20	20		
EUCHLANIS SP.	ROTIFERA	1	7		7	7	7		
KELICOTTIA BOSTONIENSIS	ROTIFERA	1	13		13	13	13		
KERATELLA CRASSA	ROTIFERA	1	398		398	398	398		
KERATELLA EARLINAE	ROTIFERA	1	47		47	47	47		
PLEOSOMA TRUNCATA	ROTIFERA	1	7		7	7	7		
POLYARTHRA SP.	ROTIFERA	1	40		40	40	40		
SYNCHAETA SP.	ROTIFERA	1	243		243	243	243		
TRICHOCECA SP.	ROTIFERA	1	20		20	20	20		

SEQUOYAH ZOOPLANKTON CALCULATIONS
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STATISTICS FOR INDIVIDUAL TAXA - NUMBER/M3

----- RIVER=TENNESSEE RIV_MILE=483.4 SAM_LOC=AC DATE=16NOV82 DEPTH=VERT -----

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
BOSMINA LONGIROSTRIS	CLADOCERA	2	4132.5	1318.75	3200	5065	8265	932.5	31.912
BOSMINOPSIS SP.	CLADOCERA	2	6.5	0.71	6	7	13	0.5	10.879
CAMPTOCERCUS RECTIROSTRIS	CLADOCERA	2	16.5	3.54	14	19	33	2.5	21.427
CHYDORUS SP.	CLADOCERA	2	17.0	15.56	6	28	34	11.0	91.508
DAPHNIA IMM.	CLADOCERA	2	4.0	4.24	1	7	8	3.0	106.066
DAPHNIA PARVULA	CLADOCERA	2	3.0	1.41	2	4	6	1.0	47.140
DIAPHANOSOMA LEUCHTENBERGIANUM	CLADOCERA	2	1.0	0.00	1	1	2	0.0	0.000
HOLÓPEDIUM GIBBERUM	CLADOCERA	2	0.5	0.71	0	1	1	0.5	141.421
LEPTODORA KINDTII	CLADOCERA	2	1.0	0.00	1	1	2	0.0	0.000
PLEUROXUS DENTICULATUS	CLADOCERA	2	3.0	4.24	0	6	6	3.0	141.421
PLEUROXUS HAMULATUS	CLADOCERA	2	3.5	4.95	0	7	7	3.5	141.421
CALANOIDA IMM.	COPEPODA	2	3.5	3.54	1	6	7	2.5	101.015
CANTHOCAMPIUS ROBERTCOKERI	COPEPODA	2	0.5	0.71	0	1	1	0.5	141.421
CYCLOPOIDA IMM.	COPEPODA	2	93.5	14.85	83	104	187	10.5	15.882
CYCLOPS BICUSPIDATUS THOMASI	COPEPODA	2	67.5	41.72	38	97	135	29.5	61.806
CYCLOPS VARICANS RUBELLUS	COPEPODA	2	4.0	4.24	1	7	8	3.0	106.066
CYCLOPS VERNALIS	COPEPODA	2	4.0	0.00	4	4	8	0.0	0.000
DIAPTOMUS MISSISSIPPIENSIS	COPEPODA	2	1.0	0.00	1	1	2	0.0	0.000
DIAPTOMUS PALLIDUS	COPEPODA	2	4.0	4.24	1	7	8	3.0	106.066
DIAPTOMUS REIGHARDI	COPEPODA	2	0.5	0.71	0	1	1	0.5	141.421
ERGASILUS SP.	COPEPODA	2	3.5	3.54	1	6	7	2.5	101.015
HARPACTICOID IMM.	COPEPODA	2	1.0	0.00	1	1	2	0.0	0.000
MACROCYCLOPS ALBIDUS	COPEPODA	2	0.5	0.71	0	1	1	0.5	141.421
NAUPLII	COPEPODA	2	944.5	444.77	630	1259	1889	314.5	47.091
TROPOCYCLOPS PRASINUS	COPEPODA	2	23.5	6.36	19	28	47	4.5	27.081
ASPLANCHNA HERRICKI	ROTIFERA	2	92.5	3.54	90	95	185	2.5	3.822
BRACHIONUS BUDAPESTINENSIS	ROTIFERA	2	3.5	4.95	0	7	7	3.5	141.421
CÉPHALODELLA SP.	ROTIFERA	2	3.0	4.24	0	6	6	3.0	141.421
CULLOTHECA SP.	ROTIFERA	2	219.0	130.11	127	311	438	92.0	59.410
CONOCHILUS UNICORNIS	ROTIFERA	2	36.5	2.12	35	38	73	1.5	5.812
EUCHLANIS SP.	ROTIFERA	2	52.5	6.36	48	57	105	4.5	12.122
KERATELLA CRASSA	ROTIFERA	2	478.5	154.86	369	588	957	109.5	32.363
KERATELLA EARLINA	ROTIFERA	2	91.0	38.18	64	118	182	27.0	41.960
MONOSTYLA BULLA	ROTIFERA	2	6.5	9.19	0	13	13	6.5	141.421
MYTILINA SP.	ROTIFERA	2	3.0	4.24	0	6	6	3.0	141.421
PLOESOMA TRUNCATA	ROTIFERA	2	6.5	0.71	6	7	13	0.5	10.879
POLYARTHRA SP.	ROTIFERA	2	153.0	18.38	140	166	306	13.0	12.016
SYNCHAETA SP.	ROTIFERA	2	299.5	163.34	184	415	599	115.5	54.538
TRICHOCERCA SP.	ROTIFERA	2	41.0	39.60	13	69	82	28.0	96.580

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SEQUOYAH ZOOPLANKTON CALCULATIONS
FEBRUARY 1982 - NOVEMBER 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/M3

RIVER=TENNESSEE RIV_MILE=490.5 SAM_LOQ=AQ DATE=16NOV82 DEPTH=VERT

TAXON	GROUP	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
BUSMINA LONGIROSTRIS	CLADOCERA	2	2115.0	767.918	1572	2658	4230	543.0	36.308
CAMPTOCERCUS RECTIROSTRIS	CLADOCERA	2	4.5	6.364	0	9	9	4.5	141.421
CHYDORUS SP.	CLADOCERA	2	11.5	3.536	9	14	23	2.5	30.744
DAPHNIA IMM.	CLADOCERA	2	0.5	0.707	0	1	1	0.5	141.421
DAPHNIA PARVULA	CLADOCERA	2	1.0	0.000	1	1	2	0.0	0.000
DIAPHANOSOMA LEUCHTENBERGIANUM	CLADOCERA	2	2.5	2.121	1	4	5	1.5	84.853
HOLOPEIDIUM GIBBERUM	CLADOCERA	2	0.5	0.707	0	1	1	0.5	141.421
PLEUROXUS DENTICULATUS	CLADOCERA	2	0.5	0.707	0	1	1	0.5	141.421
SIMOCEPHALUS SERRULATUS	CLADOCERA	2	2.0	2.828	0	4	4	2.0	141.421
CALANOIDA IMM.	COPEPODA	2	1.0	0.000	1	1	2	0.0	0.000
CYCLOPOIDA IMM.	COPEPODA	2	34.0	1.414	33	35	68	1.0	4.159
CYCLOPS BICUSPIDATUS THOMASI	COPEPODA	2	11.5	3.536	9	14	23	2.5	30.744
CYCLOPS VERNALIS	COPEPODA	2	0.5	0.707	0	1	1	0.5	141.421
DIAPTOMUS MISSISSIPPIENSIS	COPEPODA	2	5.0	5.657	1	9	10	4.0	113.137
ERGASILUS SP.	COPEPODA	2	0.5	0.707	0	1	1	0.5	141.421
MESOCYCLOPS EDAX	COPEPODA	2	1.0	0.000	1	1	2	0.0	0.000
NAUPLII	COPEPODA	2	384.5	98.288	315	454	769	69.5	25.563
TROPOCYCLOPS PRASINUS	COPEPODA	2	5.5	4.950	2	9	11	3.5	89.995
ASPLANCHNA HERRICKI	ROTIFERA	2	53.5	31.820	31	76	107	22.5	59.476
BRACHIONUS BUDAPESTINENSIS	ROTIFERA	2	2.0	2.828	0	4	4	2.0	141.421
COLLOTHECA SP.	ROTIFERA	2	135.0	16.971	123	147	270	12.0	12.571
CONOCHILOIDES SP.	ROTIFERA	2	7.0	9.899	0	14	14	7.0	141.421
CONOCHILUS UNICORNIS	ROTIFERA	2	23.5	27.577	4	43	47	19.5	117.350
CONTRACTED ROTIFERA	ROTIFERA	2	2.0	2.828	0	4	4	2.0	141.421
EPIPHANES MACROURUS	ROTIFERA	2	2.0	2.828	0	4	4	2.0	141.421
EUCHLANIS SP.	ROTIFERA	2	4.5	6.364	0	9	9	4.5	141.421
KELICOTTIA BOSTONIENSIS	ROTIFERA	2	4.5	0.707	4	5	9	0.5	15.713
KERATELLA COCHLEARIS	ROTIFERA	2	2.0	2.828	0	4	4	2.0	141.421
KERATELLA CRASSA	ROTIFERA	2	346.0	106.066	271	421	692	75.0	30.655
KERATELLA EARLINA	ROTIFERA	2	159.5	2.121	158	161	319	1.5	1.330
LECANE SP.	ROTIFERA	2	2.5	3.536	0	5	5	2.5	141.421
MYTILINA SP.	ROTIFERA	2	2.5	3.536	0	5	5	2.5	141.421
PLATYIAS PATULUS	ROTIFERA	2	2.5	3.536	0	5	5	2.5	141.421
PLOESOMA TRUNCATA	ROTIFERA	2	11.5	10.607	4	19	23	7.5	92.231
POLYARTHRA SP.	ROTIFERA	2	279.5	72.832	228	331	559	51.5	26.058
SYNCHAETA SP.	ROTIFERA	2	326.5	207.182	180	473	653	146.5	63.456
TESTUDINELLA SP.	ROTIFERA	2	2.0	2.828	0	4	4	2.0	141.421
TRICHCERCA SP.	ROTIFERA	2	16.5	10.607	9	24	33	7.5	64.282

APPENDIX J

MEAN ZOOPLANKTON DENSITIES (NO./M³) AT EACH
STATION DURING OPERATIONAL MONITORING (1982),
SEQUOYAH NUCLEAR PLANT, CHICKAMAUGA RESERVOIR

Appendix J. Mean Zooplankton Densities (No./M³) at Each Station During Operational Monitoring (1982) Sequoyah Nuclear Plant, Chickamauga Reservoir

	Feb 1982			May 1982			Aug 1982			Nov 1982		
				Tennessee River Mile								
	480.8	483.4	490.5	478.2	483.4	490.5	478.2	483.4	490.5	478.2 [*]	483.4	490.5
Cladocera												
Alona quadrangularis	1	1	1	0	1	0	0	0	0	0	0	0
Bosmina longirostris	2264	4155	3086	25324	48966	46790	46773	7760	17511	3648	4133	2115
Bosminopsis sp.	0	0	0	0	0	0	0	0	0	7	7	0
Camptocercus rectirostris	0	0	0	0	0	0	2	17	1	7	17	5
Ceriodaphnia imm.	0	0	0	0	0	0	41	1	0	0	0	0
Ceriodaphnia lacustris	0	0	0	0	0	1	50	0	2	0	0	0
Ceriodaphnia quadrangula	0	0	0	1	0	181	0	0	0	0	0	0
Chydorus sp.	44	69	63	0	0	0	0	33	0	7	17	12
Daphnia parvula	1	0	1	8	158	25	0	0	0	0	0	0
Daphnia imm.	17	1	0	1974	1582	925	206	62	529	0	4	1
Daphnia parvula	0	1	0	148	400	80	52	9	67	7	3	1
Daphnia pulex	1	0	0	4	3	1	0	0	0	0	0	0
Daphnia retrocurva	17	1	0	426	313	50	414	62	109	0	0	0
Diaphanosoma leuchtenbergianum	0	0	0	1	2	185	948	517	711	0	1	3
Eurycercus lamellatus	0	1	0	0	0	0	0	0	0	0	0	0
Eurycercus sp.	0	1	0	0	0	0	0	0	0	0	0	0
Holopedium gibberum	0	0	0	1	0	1	0	0	0	0	1	1
Ilyocryptus imm.	0	0	0	0	0	0	0	1	0	0	0	0
Ilyocryptus sordidus	0	0	0	0	0	0	0	0	23	0	0	0
Ilyocryptus spinifer	0	0	0	0	0	0	4	34	1	0	0	0
Leptodora kindtii	0	0	0	4	15	2	6	3	4	1	1	0
Leydigia quadrangularis	3	6	12	0	0	0	0	0	0	0	0	0
Macrothrix rosea	0	0	0	0	0	0	0	16	21	0	0	0
Moina minuta	0	0	0	0	0	0	42	1	0	0	0	0
Pleuroxus denticulatus	0	1	0	0	0	0	0	0	1	0	3	1
Pleuroxus hamulatus	16	1	0	0	0	0	1	0	0	0	4	0
Sida crystallina	0	0	1	1	2	0	5	18	27	0	0	0
Simocephalus serrulatus	1	0	1	1	0	0	1	1	0	0	0	2
Copepoda												
Calanoida imm.	54	95	116	5	85	395	15	31	11	7	4	1
Canthocamptus robertcokeri	0	0	0	0	0	0	0	0	0	1	1	0
Cyclopoida imm.	2279	1961	2086	5026	10417	5875	1936	740	1805	54	94	34

Appendix J. (Continued)

	Feb 1982			May 1982			Aug 1982			Nov 1982		
	Tennessee River Mile											
	480.8	483.4	490.5	478.2	483.4	490.5	478.2	483.4	490.5	478.2	483.4	490.5
Cyclops bicuspidatus thomasi	884	1437	1309	1482	3504	325	7	125	1	61	68	12
Cyclops varicans rubellus	0	0	0	0	0	0	0	0	0	7	4	0
Cyclops vernalis	1	11	0	141	165	170	4	1	29	27	4	1
Diaptomus mississippiensis	0	0	0	0	1	0	2	4	3	0	1	5
Diaptomus pallidus	11	26	21	1	6	6	10	20	25	0	4	0
Diaptomus reighardi	0	2	3	12	12	6	1	1	2	2	1	0
Diaptomus sanguineus	0	1	0	0	0	0	0	0	0	0	0	0
Ergasilus imm.	0	0	0	0	0	0	1	0	0	0	0	0
Ergasilus sp.	0	0	0	0	0	0	7	33	24	0	4	1
Ergasilus agilis	0	1	0	0	0	0	3	19	2	0	0	0
Eucyclops speratus	0	0	1	0	0	0	0	0	0	0	0	0
Harpacticoida imm.	0	0	0	0	0	0	0	0	0	0	1	0
Macrocyclus albidus	0	0	0	0	0	0	1	1	0	0	1	0
Mesocyclops edax	15	25	0	271	555	65	125	108	133	7	0	1
Nauplii	3186	6159	2684	17105	21969	21610	14922	7274	3318	775	945	385
Paracyclops fimbriatus poppe	0	0	1	0	0	0	0	0	0	0	0	0
Tropocyclops prasinus	3	1	1	0	0	0	0	0	0	1	24	6
Rotifera												
Asplanchna amphora	0	0	0	69	0	0	206	74	67	0	0	0
Asplanchna herricki	101	23	11	35034	26280	180070	1027	420	270	88	93	54
Brachionus angularis	171	0	0	0	0	0	5006	2660	2355	0	0	0
Brachionus budapestinensis	0	0	0	0	0	0	2183	672	204	0	4	2
Brachionus calyciflorus	16	0	0	0	710	12580	0	0	44	0	0	0
Brachionus caudatus	146	23	0	0	0	0	205	80	67	0	0	0
Brachionus havanaensis	0	0	0	0	0	0	41	0	0	0	0	0
Brachionus quadridentatus	26	0	21	69	0	0	123	49	0	0	0	0
Cephalodella sp.	0	0	0	0	0	0	41	0	0	0	3	0
Collotheca sp.	0	0	0	207	0	0	0	31	23	317	219	135
Conochiloides sp.	0	0	0	0	0	0	12181	3916	1609	0	0	7
Conochilus hippocrepis	0	0	0	0	0	0	125	294	0	0	0	0
Conochilus unicornis	13	0	0	51419	75318	63855	26213	11847	6461	20	37	24
Contracted rotifer	0	0	0	0	0	0	0	17	0	0	0	2

Appendix J. (Continued)

	Feb 1982			May 1982			Aug 1982			Nov 1982		
	Tennessee River Mile											
	480.8	483.4	490.5	478.2	483.4	490.5	478.2	483.4	490.5	478.2	483.4	490.5
Epiphanes macrourus	41	11	21	0	0	0	0	0	0	0	0	2
Euchlanis sp.	13	11	11	0	0	0	0	0	0	7	53	5
Filinia longiseta	60	93	11	0	0	0	0	0	0	0	0	0
Gastropus sp.	0	0	0	0	0	355	0	0	0	0	0	0
Hexarthra intermedia	0	0	0	0	0	0	2799	98	0	0	0	0
Hexarthra sp.	0	0	0	0	0	0	0	236	85	0	0	0
Kellicottia bostoniensis	0	48	11	0	80	0	0	0	0	13	0	5
Kellicottia longispina	265	329	116	69	398	965	0	0	0	0	0	0
Keratella americana	0	0	0	0	0	0	41	17	0	0	0	0
Keratella cochlearis	16	34	0	304	78	180	0	0	0	0	0	2
Keratella crassa	267	490	179	1952	2087	1855	1232	201	87	398	479	346
Keratella earlinae	619	777	95	15864	10406	13330	0	0	0	47	91	160
Keratella quadrata	13	0	0	0	0	0	0	0	0	0	0	0
Keratella sp.	0	0	11	0	0	0	0	0	0	0	0	0
Keratella valga	16	0	0	0	0	0	0	0	0	0	0	0
Lecane leontina	0	0	0	0	0	0	42	79	46	0	0	0
Lecane sp.	0	0	0	0	0	0	0	93	0	0	0	3
Monostyla bulla	0	0	0	0	0	0	41	0	0	0	7	0
Monostyla quadridentata	0	0	0	0	0	0	42	17	0	0	0	0
Monostyla sp.	0	0	0	0	0	0	83	110	21	0	0	0
Mytilina sp.	0	0	0	0	0	0	0	15	0	0	3	3
Notholca sp.	13	48	0	0	0	0	0	0	0	0	0	0
Platylas patulus	0	0	0	0	0	0	370	142	106	0	0	3
Ploesoma truncata	0	0	0	0	0	285	989	368	309	7	7	12
Polyarthra sp.	1162	1010	315	5257	4708	7195	3378	475	532	40	153	280
Synchaeta sp.	1076	1848	851	2319	3833	42265	1722	77	200	243	300	327
Testudinella sp.	0	11	0	0	0	0	42	0	0	0	0	2
Trichocera sp.	0	0	0	0	0	180	617	299	228	20	41	17

* Only 1 Sample at River Mile 478.2 in November.

APPENDIX K

TOTAL MACROINVERTEBRATES FOR REPLICATE SAMPLES
AND CALCULATIONS FOR TOTALS AND INDIVIDUAL TAXA,
SEQUOYAH NUCLEAR PLANT, CHICKAMAUGA RESERVOIR
IN 1982

Appendix K. Total Macroinvertebrates for Replicate Samples and Calculations for Totals and Individual Taxa, Sequoyah Nuclear Plant, Chickamauga Reservoir in 1982

SEQUOYAH BENTHIC CALCULATIONS		
FEB 1982 - NOV 1982		
TOTAL NUMBER OF ORGANISMS PER REPLICATE SAMPLE - NUMBER/M2		
----- RIVER=TENNESSEE RIV_MILE=478.2 SAM_LOC=A0 -----		
DATE	REP_NO	NUM
05MAY82	1	576
05MAY82	2	414
05MAY82	3	288
05MAY82	4	576
05MAY82	5	792
05MAY82	6	702
05MAY82	7	594
05MAY82	8	270
05MAY82	9	900
05MAY82	10	1,098
05AUG82	1	468
05AUG82	2	90
05AUG82	3	324
05AUG82	4	216
05AUG82	5	180
05AUG82	6	180
05AUG82	7	234
05AUG82	8	270
05AUG82	9	108
05AUG82	10	216
01NOV82	1	594
01NOV82	2	432
01NOV82	3	378
01NOV82	4	306
01NOV82	5	468
01NOV82	6	612
01NOV82	7	504
01NOV82	8	738
01NOV82	9	432
01NOV82	10	576

SEQUOYAH BENTHIC CALCULATIONS
FEB 1982 - NOV 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/M2

----- RIVER=TENNESSEE RIV_MILE=490.5 SAM_LOC=AQ DATE=01NOV82 -----

TAXON	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ABLABESMYIA SP.	10	12.6	17.0763	0	54	126	5.4000	135.526
BRANCHIURA SCHWABII	10	10.8	19.3494	0	54	108	6.1188	179.161
CHACBORUS SP.	10	9.0	12.7279	0	36	90	4.0249	141.421
COELOTANYPUS SP.	10	70.2	29.9399	36	144	702	9.4678	42.649
CORBICULA MANILENSIS	10	106.2	48.3363	18	162	1062	15.2853	45.514
HEXAGENIA BILINEATA	10	32.4	25.1714	0	72	324	7.9599	77.690
SPHAERIUM SP.	10	1.8	5.6921	0	18	18	1.8000	316.228
TUBIFICIDAE	10	18.0	18.9737	0	54	180	6.0000	105.409

SEQUOYAH RENTHIC CALCULATIONS

FEB 1982 - NOV 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/M2

----- RIVER=TENNESSEE RIV_MILE=490.5 SAM_LOC=AQ DATE=12FEB82 -----

TAXON	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ABLABESMYIA SP.	10	9.0	9.4868	0	18	90	3.0000	105.409
BRANCHIURA SOWERBYI	10	27.0	22.8473	0	72	270	7.2250	84.620
CHABORUS SP.	10	27.0	19.4422	0	72	270	6.1482	72.008
CHIRONOMUS SP.	10	25.2	27.0998	0	90	252	8.5697	107.539
COELOTANYPUS SP.	10	59.4	41.6125	0	144	594	13.1590	70.055
CORBICULA MANILENSIS	10	174.6	65.2643	72	288	1746	20.6194	37.345
HEXAGENIA BILINEATA	10	21.6	18.5903	0	54	216	5.8788	86.066
HYALELLA AZTECA	10	5.4	12.1491	0	36	54	3.8419	224.983
PHYSA SP.	10	1.8	5.6921	0	18	18	1.8000	316.228
PROCLADIUS SP.	10	23.4	17.0763	0	54	234	5.4000	72.976
TUBIFICIDAE	10	41.4	47.2821	0	144	414	14.9519	114.208

----- RIVER=TENNESSEE RIV_MILE=490.5 SAM_LOC=AQ DATE=05MAY82 -----

TAXON	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ABLABESMYIA SP.	10	1.8	5.6921	0	18	18	1.8000	316.228
BRANCHIURA SOWERBYI	10	5.4	12.1491	0	36	54	3.8419	224.983
CHIRONOMUS SP.	10	14.4	7.5895	0	18	144	2.4000	52.705
COELOTANYPUS SP.	10	57.6	37.7571	0	108	576	11.9398	65.551
CORBICULA MANILENSIS	10	61.2	41.7421	0	126	612	13.2000	68.296
HEXAGENIA BILINEATA	10	55.8	37.4219	0	108	558	11.8338	67.064
OECETIS SP.	10	1.8	5.6921	0	18	18	1.8000	316.228
PROCLADIUS SP.	10	9.0	22.8473	0	72	90	7.2250	253.859
TUBIFICIDAE	10	39.6	26.5631	0	72	396	8.4000	67.079

----- RIVER=TENNESSEE RIV_MILE=490.5 SAM_LOC=AQ DATE=05AUG82 -----

TAXON	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ABLABESMYIA SP.	10	21.6	18.5903	0	54	216	5.8788	86.066
BEZZIA SP.	10	5.4	12.1491	0	36	54	3.8419	224.983
BRANCHIURA SOWERBYI	10	9.0	15.2971	0	36	90	4.8374	169.967
CHIRONOMUS SP.	10	1.8	5.6921	0	18	18	1.8000	316.228
COELOTANYPUS SP.	10	9.0	12.7279	0	36	90	4.0249	141.421
CORBICULA MANILENSIS	10	1.8	5.6921	0	18	18	1.8000	316.228
EPOICOCADIUS SP.	10	1.8	5.6921	0	18	18	1.8000	316.228
HEXAGENIA BILINEATA	10	36.0	18.9737	18	72	360	6.0000	52.705
ORTHOTRICHIA SP.	10	1.8	5.6921	0	18	18	1.8000	316.228
TUBIFICIDAE	10	99.0	48.1871	18	180	990	15.2381	48.674

SEQUOYAH BENTHIC CALCULATIONS

FEB 1982 - NOV 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/M2

----- RIVER=TENNESSEE RIV_MILE=483.4 SAM_LOC=AC DATE=01NOV82 -----

TAXON	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
CHIRONOMIDAE	10	1.8	5.6921	0	18	18	1.80000	316.228
CHIRONOMUS SP.	10	9.0	12.7279	0	36	90	4.02492	141.421
COELOTANYPUS SP.	10	3.6	7.5895	0	18	36	2.40000	210.819
CORBICULA PANILENSIS	10	16.2	15.7607	0	36	162	4.98397	97.288
CRYPTOCHIRONOMUS SP.	10	1.8	5.6921	0	18	18	1.80000	316.228
CYRNELLUS FRATERNUS	10	3.6	11.3842	0	36	36	3.60000	316.228
HYALELLA AZTECA	10	1.8	5.6921	0	18	18	1.80000	316.228
OECETIS SP.	10	1.8	5.6921	0	18	18	1.80000	316.228
PROCLADIUS SP.	10	1.8	5.6921	0	18	18	1.80000	316.228
SPHAERIUM SP.	10	7.2	12.5857	0	36	72	3.97995	174.801

SEQUOYAH BENTHIC CALCULATIONS
FEB 1982 - NOV 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/M2

----- RIVER=TENNESSEE RIV_MILE=483.4 SAM_LOC=AC DATE=12FEB82 -----

TAXON	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
BRANCHIURA SOWERBYI	10	95.4	68.961	0	198	954	21.807	72.286
CHAOBORUS SP.	10	3.6	11.384	0	36	36	3.600	316.228
CHIRONOMUS SP.	10	9.0	12.728	0	36	90	4.025	141.421
COELOTANYPUS SP.	10	19.8	44.457	0	144	198	14.058	224.529
CORBICULA MANILENSIS	10	415.8	384.136	54	1278	4158	121.474	92.385
CRYPTOCHIRONOMUS SP.	10	7.2	17.390	0	54	72	5.499	241.523
HEXAGENIA BILINEATA	10	1.8	5.692	0	18	18	1.800	316.228
HIRUDINEA	10	3.6	7.589	0	18	36	2.400	210.819
HYALELLA AZTECA	10	1.8	5.692	0	18	18	1.800	316.228
PROCLADIUS SP.	10	39.6	35.799	0	108	396	11.321	90.403
TUBIFICIDAE	10	154.8	91.468	54	288	1548	28.925	59.088

----- RIVER=TENNESSEE RIV_MILE=483.4 SAM_LOC=AC DATE=05MAY82 -----

TAXON	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
BRANCHIURA SOWERBYI	10	70.2	40.2045	18	144	702	12.7138	57.271
CHAOBORUS SP.	10	1.8	5.6921	0	18	18	1.8000	316.228
CHIRONOMUS SP.	10	21.6	22.1269	0	72	216	6.9971	102.439
CORBICULA MANILENSIS	10	286.2	84.1926	126	360	2862	26.6240	29.417
CRANGONYX SP.	10	1.8	5.6921	0	18	18	1.8000	316.228
CRYPTOCHIRONOMUS SP.	10	1.8	5.6921	0	18	18	1.8000	316.228
DICROTENDIPES SP.	10	1.8	5.6921	0	18	18	1.8000	316.228
DUGESIA TIGRINA	10	9.0	9.4868	0	18	90	3.0000	105.409
HEXAGENIA BILINEATA	10	1.8	5.6921	0	18	18	1.8000	316.228
HYALELLA AZTECA	10	1.8	5.6921	0	18	18	1.8000	316.228
OECETIS SP.	10	3.6	7.5895	0	18	36	2.4000	210.819
PROCLADIUS SP.	10	3.6	7.5895	0	18	36	2.4000	210.819
SPHAERIUM SP.	10	30.6	25.5265	0	72	306	8.0722	83.420
TUBIFICIDAE	10	81.0	48.9285	18	126	810	15.4726	60.406

----- RIVER=TENNESSEE RIV_MILE=483.4 SAM_LOC=AC DATE=05AUG82 -----

TAXON	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
CHAOBORUS SP.	10	1.8	5.6921	0	18	18	1.8000	316.228
CHIRONOMUS SP.	10	72.0	54.9909	0	144	720	17.3897	76.376
CORBICULA MANILENSIS	10	23.4	32.9181	0	108	234	10.4096	140.676
CYRNELLUS FRATERNUS	10	1.8	5.6921	0	18	18	1.8000	316.228
TUBIFICIDAE	10	7.2	12.5857	0	36	72	3.9799	174.801

SEQUOYAH BENTHIC CALCULATIONS

FEB 1982 - NOV 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/M2

----- RIVER=TENNESSEE RIV_MILE=480.8 SAM_LOC=A0 DATE=12FEB82 -----

TAXON	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ABLABESMYIA SP.	10	12.6	14.8189	0	36	126	4.6861	117.610
BRANCHIURA SOWERBYI	10	25.2	24.2981	0	72	252	7.6837	96.421
CHAOBORUS SP.	10	10.8	15.1789	0	36	108	4.8000	140.546
CHIRONOMUS SP.	10	1.8	5.6921	0	18	18	1.8000	316.228
COELOTANYPUS SP.	10	73.8	98.3890	0	270	738	31.1133	133.318
CORBICULA MANILENSIS	10	93.6	58.0483	36	216	936	18.3565	62.017
CRYPTOCHIRONOMUS SP.	10	1.8	5.6921	0	18	18	1.8000	316.228
DICROTENDIPES SP.	10	1.8	5.6921	0	18	18	1.8000	316.228
HEXAGENIA BILINEATA	10	66.6	58.8184	0	180	666	18.6000	88.316
PROCLADIUS SP.	10	18.0	18.9737	0	54	180	6.0000	105.409
SPHAERIUM SP.	10	5.4	8.6948	0	18	54	2.7495	161.015
TUBIFICIDAE	10	104.4	82.1803	0	252	1044	25.9877	78.717

SEQUOYAH BENTHIC CALCULATIONS
FEB 1982 - NOV 1982

STATISTICS FOR INDIVIDUAL TAXA - NUMBER/M2

----- RIVER=TENNESSEE RIV_MILE=478.2 SAM_LOC=A0 DATE=05MAY82 -----

TAXON	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ABLABESMYIA SP.	10	5.4	8.695	0	18	54	2.7495	161.015
BRANCHIURA SOWERBYI	10	16.2	19.899	0	54	162	6.2642	122.278
CAMPELOMA SP.	10	5.4	17.076	0	54	54	5.4000	316.228
CHAOBORUS SP.	10	18.0	18.974	0	54	180	6.0000	105.409
CHIRONOMUS SP.	10	30.6	28.206	0	90	306	8.9196	92.178
COELOTANYPUS SP.	10	88.2	35.446	36	144	882	11.2089	40.188
CORBICULA MANILENSIS	10	75.6	50.770	0	162	756	16.0549	67.156
ERPOBDELLIDAE	10	1.8	5.692	0	18	18	1.8000	316.228
HEXAGENIA BILINEATA	10	93.6	47.850	0	162	936	15.1314	51.122
OECETIS SP.	10	5.4	8.695	0	18	54	2.7495	161.015
PECTINATELLA MAGNIFICA	10	1.8	5.692	0	18	18	1.8000	316.228
PROCLADIUS SP.	10	1.8	5.692	0	18	18	1.8000	316.228
SPHAERIUM SP.	10	9.0	12.728	0	36	90	4.0249	141.421
TUBIFICIDAE	10	266.4	152.452	36	576	2664	48.2095	57.227
XENOCHIRONOMUS SP.	10	1.8	5.692	0	18	18	1.8000	316.228

----- RIVER=TENNESSEE RIV_MILE=478.2 SAM_LOC=A0 DATE=05AUG82 -----

TAXON	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ABLABESMYIA SP.	10	16.2	23.1603	0	54	162	7.3239	142.965
CHAOBORUS SP.	10	5.4	8.6948	0	18	54	2.7495	161.015
COELOTANYPUS SP.	10	23.4	20.8710	0	54	234	6.6000	89.192
CORBICULA MANILENSIS	10	99.0	68.0147	0	216	990	21.5081	68.702
CYRNELLUS FRATERNUS	10	1.8	5.6921	0	18	18	1.8000	316.228
EPOICOCADIUS SP.	10	1.8	5.6921	0	18	18	1.8000	316.228
HEXAGENIA BILINEATA	10	21.6	14.1986	0	54	216	4.4900	55.734
PHYSA SP.	10	3.6	7.5895	0	18	36	2.4000	216.819
TUBIFICIDAE	10	55.8	29.9399	18	126	558	9.4678	53.656

----- RIVER=TENNESSEE RIV_MILE=478.2 SAM_LOC=A0 DATE=01NOV82 -----

TAXON	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
ABLABESMYIA SP.	10	32.4	32.6435	0	90	324	10.3228	100.752
CHAOBORUS SP.	10	77.4	60.6267	0	180	774	19.1719	78.329
COELOTANYPUS SP.	10	136.8	55.1217	36	198	1368	17.4310	40.294
CORBICULA MANILENSIS	10	86.4	32.6435	54	162	864	10.3228	37.782
HEXAGENIA BILINEATA	10	149.4	68.4368	54	252	1494	21.6416	45.808
HIRUDINEA	10	1.8	5.6921	0	18	18	1.8000	316.228
SPHAERIUM SP.	10	1.8	5.6921	0	18	18	1.8000	316.228
TUBIFICIDAE	10	18.0	24.0000	0	72	180	7.5895	133.333

SEQUOYAH BENTHIC CALCULATIONS

FEB 1982 - NOV 1982

TOTAL NUMBER OF ORGANISMS PER REPLICATE SAMPLE - NUMBER/M2

----- RIVER=TENNESSEE RIV_MILE=490.5 SAM_LOC=AQ -----

DATE	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
12FEB82	10	415.8	115.864	162	576	4158	36.6393	27.8653
05MAY82	10	246.6	72.523	126	324	2466	22.9338	29.4092
05AUG82	10	187.2	48.892	72	234	1872	15.4609	26.1174
01NOV82	10	261.0	75.060	144	378	2610	23.7360	28.7586

SEQUOYAH BENTHIC CALCULATIONS
FEB 1982 - NOV 1982

TOTAL NUMBER OF ORGANISMS PER REPLICATE SAMPLE - NUMBER/M2

----- RIVER=TENNESSEE RIV_MILE=483.4 SAM_LOC=AC -----

DATE	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
12FEBR2	10	752.4	513.749	126	1800	7524	162.462	68.2813
05MAY82	10	516.6	111.300	378	666	5166	35.196	21.5446
05AUG82	10	106.2	51.927	36	198	1062	16.421	48.8954
01NOVR2	10	48.6	20.871	18	90	486	6.600	42.9445

SEQUOYAH BENTHIC CALCULATIONS
FEB 1982 - NOV 1982

TOTAL NUMBER OF ORGANISMS PER REPLICATE SAMPLE - NUMBER/M2

----- RIVER=TENNESSEE RIV_MILE=480.8 SAM_LOC=A0 -----

DATE	N	MEAN	STD	MIN	MAX	SUM	STDERR	CV
12FEB82	10	415.8	150.945	234	666	4158	47.733	36.3023

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SEQUOYAH PENTHIC CALCULATIONS
FEB 1982 - NOV 1982

TOTAL NUMBER OF ORGANISMS PER REPLICATE SAMPLE - NUMBER/M2

----- RIVER=TENNESSEE RIV_MILE=483.4 SAM_LOC=AC -----

DATE	REP_NO	NUM
12FEB82	1	900
12FEB82	2	900
12FEB82	3	1,044
12FEB82	4	234
12FEB82	5	522
12FEB82	6	1,800
12FEB82	7	1,170
12FEB82	8	288
12FEB82	9	540
12FEB82	10	126
05MAY82	1	378
05MAY82	2	378
05MAY82	3	594
05MAY82	4	432
05MAY82	5	504
05MAY82	6	666
05MAY82	7	648
05MAY82	8	414
05MAY82	9	540
05MAY82	10	612
05AUG82	1	36
05AUG82	2	144
05AUG82	3	54
05AUG82	4	54
05AUG82	5	198
05AUG82	6	108
05AUG82	7	90
05AUG82	8	126
05AUG82	9	162
05AUG82	10	90
01NOV82	1	36
01NOV82	2	54
01NOV82	3	36
01NOV82	4	90
01NOV82	5	54
01NOV82	6	18
01NOV82	7	36
01NOV82	8	36
01NOV82	9	54
01NOV82	10	72

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SEQUOYAH BENTHIC CALCULATIONS
FEB 1982 - NOV 1982

TOTAL NUMBER OF ORGANISMS PER REPLICATE SAMPLE - NUMBER/M2

----- RIVER=TENNESSEE RIV_MILE=480.8 SAM_LOC=A0 -----

DATE	REP_NO	NUM
12FEB82	1	234
12FEB82	2	324
12FEB82	3	324
12FEB82	4	396
12FEB82	5	558
12FEB82	6	504
12FEB82	7	576
12FEB82	8	342
12FEB82	9	234
12FEB82	10	666

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APPENDIX L

HEXAGENIA (NO./M²) COLLECTED IN THE VICINITY OF
SEQUOYAH NUCLEAR PLANT DURING PREOPERATIONAL AND
OPERATIONAL MONITORING, 1971 THROUGH 1982

Appendix L. Hexagenia (No./m²) Collected in the Vicinity of Sequoyah Nuclear Plant, Chickamauga Reservoir, During Preoperational and Operational Monitoring, 1971 Through 1982

TAXON=HEXAGENIA PILINEATA						
OBS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
1157	478.2	1971	3	1	82	27
1158	478.2	1971	3	2	82	140
1159	478.2	1971	3	3	82	22
1160	478.2	1971	4	1	82	75
1161	478.2	1971	4	2	82	32
1162	478.2	1971	4	3	82	54
1163	478.2	1972	1	1		0
1164	478.2	1972	1	2		0
1165	478.2	1972	1	3		19
1166	478.2	1972	2	1		18
1167	478.2	1972	2	2		14
1168	478.2	1972	2	3		54
1169	478.2	1972	3	1	0	199
1170	478.2	1972	3	2	0	54
1171	478.2	1972	3	3	0	36
1172	478.2	1972	4	1	0	109
1173	478.2	1972	4	2	0	181
1174	478.2	1972	4	3	0	0
1175	478.2	1973	1	1	0	0
1176	478.2	1973	1	2	0	0

MAY 1971 - NOVEMBER 1962

TAXON=HEXAGEVIA BILINEATA

OBS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
1177	478.2	1973	1	3	0	0
1178	478.2	1973	2	1	0	73
1179	478.2	1973	2	2	0	100
1180	478.2	1973	2	3	0	73
1181	478.2	1973	3	1		0
1182	478.2	1973	4	1	0	0
1183	478.2	1973	4	2	0	0
1184	478.2	1973	4	3	0	0
1185	478.2	1974	1	1	0	0
1186	478.2	1974	1	2	0	0
1187	478.2	1974	1	3	0	100
1188	478.2	1974	2	1	0	54
1189	478.2	1974	2	2	0	145
1190	478.2	1974	2	3	0	18
1191	478.2	1974	3	1	0	0
1192	478.2	1974	3	2	0	0
1193	478.2	1974	3	3	0	18
1194	478.2	1974	4	1	0	0
1195	478.2	1974	4	2	0	36
1196	478.2	1974	4	3	0	0
1197	478.2	1975	1	1		36
1198	478.2	1975	1	2		36
1199	478.2	1975	1	3		18
1200	478.2	1975	2	1	0	272
1201	478.2	1975	2	2	0	218
1202	478.2	1975	2	3	0	300
1203	478.2	1975	3	1	0	54
1204	478.2	1975	3	2	0	51
1205	478.2	1975	3	3	0	159
1206	478.2	1975	4	1		0
1207	478.2	1976	1	1	0	0
1208	478.2	1976	1	2	0	0
1209	478.2	1976	1	3	0	0
1210	478.2	1976	2	1	0	0
1211	478.2	1976	2	2	0	471
1212	478.2	1976	2	3	0	381
1213	478.2	1976	2	4	0	272
1214	478.2	1976	2	5	0	381
1215	478.2	1976	2	6	0	0
1216	478.2	1976	2	7	0	0
1217	478.2	1976	2	8	0	308
1218	478.2	1976	2	9	0	435
1219	478.2	1976	2	10	0	453
1220	478.2	1976	3	1	0	73
1221	478.2	1976	3	2	0	91
1222	478.2	1976	3	3	0	100
1223	478.2	1976	3	4	0	54
1224	478.2	1976	3	5	0	91
1225	478.2	1976	3	6	0	73
1226	478.2	1976	3	7	0	0
1227	478.2	1976	3	8	0	18
1228	478.2	1976	3	9	0	18
1229	478.2	1976	3	10	0	0
1230	478.2	1976	4	1	19	73

MAY 1971 - NOVEMBER 1982

TAYON=HEXAGENIA BILINEATA

ORS	RIV_MILL	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
1231	478.2	1976	4	2	19	218
1232	478.2	1976	4	3	19	181
1233	478.2	1976	4	4	19	127
1234	478.2	1976	4	5	19	54
1235	478.2	1976	4	6	19	254
1236	478.2	1976	4	7	19	381
1237	478.2	1976	4	8	19	435
1238	478.2	1976	4	9	19	453
1239	478.2	1976	4	10	19	199
1240	478.2	1977	1	1	19	218
1241	478.2	1977	1	2	19	127
1242	478.2	1977	1	3	19	254
1243	478.2	1977	1	4	19	183
1244	478.2	1977	1	5	19	344
1245	478.2	1977	1	6	19	272
1246	478.2	1977	1	7	19	181
1247	478.2	1977	1	8	19	326
1248	478.2	1977	1	9	19	218
1249	478.2	1977	1	10	19	236
1250	478.2	1977	2	2	19	199
1251	478.2	1977	2	3	19	218
1252	478.2	1977	2	4	19	163
1253	478.2	1977	2	5	19	218
1254	478.2	1977	2	6	19	218
1255	478.2	1977	2	7	19	417
1256	478.2	1977	2	8	19	236
1257	478.2	1977	2	9	19	218
1258	478.2	1977	2	10	19	363
1259	478.2	1977	3	1	21	18
1260	478.2	1977	3	2	15	73
1261	478.2	1977	3	3	15	91
1262	478.2	1977	3	4	15	127
1263	478.2	1977	3	5	15	163
1264	478.2	1977	3	6	15	18
1265	478.2	1977	3	7	15	145
1266	478.2	1977	3	8	15	109
1267	478.2	1977	3	9	15	54
1268	478.2	1977	3	10	15	181
1269	478.2	1977	4	1	15	743
1270	478.2	1977	4	3	15	508
1271	478.2	1977	4	4	15	653
1272	478.2	1977	4	5	15	399
1273	478.2	1977	4	6	15	725
1274	478.2	1977	4	7	15	544
1275	478.2	1977	4	8	15	163
1276	478.2	1977	4	9	15	381
1277	478.2	1977	4	10	15	508
1278	478.2	1978	1	1	19	54
1279	478.2	1978	1	2	19	109
1280	478.2	1978	2	1	19	18
1281	478.2	1978	2	5	19	18
1282	478.2	1978	2	6	19	36
1283	478.2	1978	2	9	19	18
1284	478.2	1978	2	10	19	127

MAY 1971 - NOVEMBER 1992

TAXON=HEXAGENIA BILINEATA

ORS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
1285	478.2	1974	3	1	19	54
1286	478.2	1978	3	2	19	18
1287	473.2	1973	3	3	19	100
1288	478.2	1978	3	4	19	254
1289	473.2	1973	3	5	19	199
1290	478.2	1978	3	6	19	181
1291	478.2	1978	3	7	19	181
1292	478.2	1978	3	8	19	127
1293	478.2	1978	3	9	19	290
1294	478.2	1978	3	10	19	254
1295	478.2	1978	4	2	19	18
1296	478.2	1978	4	3	19	73
1297	478.2	1978	4	4	19	36
1298	478.2	1978	4	5	19	36
1299	478.2	1978	4	6	19	18
1300	478.2	1978	4	7	19	73
1301	478.2	1978	4	8	19	73
1302	478.2	1978	4	9	19	127
1303	478.2	1978	4	10	19	18
1304	478.2	1980	4	1	AO	72
1305	478.2	1980	4	2	AO	126
1306	478.2	1980	4	3	AO	108
1307	478.2	1980	4	4	AO	90
1308	478.2	1980	4	5	AO	108
1309	478.2	1980	4	6	AO	54
1310	478.2	1980	4	7	AO	36
1311	478.2	1980	4	8	AO	90
1312	478.2	1980	4	10	AO	163
1313	478.2	1981	1	1	AO	199
1314	478.2	1981	1	2	AO	145
1315	478.2	1981	1	3	AO	108
1316	478.2	1981	1	4	AO	199
1317	478.2	1981	1	5	AO	36
1318	478.2	1981	1	6	AO	108
1319	478.2	1981	1	7	AO	126
1320	478.2	1981	1	8	AO	36
1321	478.2	1981	1	9	AO	126
1322	478.2	1981	1	10	AO	253
1323	478.2	1981	2	1	AO	181
1324	478.2	1981	2	2	AO	163
1325	478.2	1981	2	3	AO	235
1326	478.2	1981	2	4	AO	163
1327	478.2	1981	2	5	AO	253
1328	478.2	1981	2	6	AO	199
1329	478.2	1981	2	7	AO	253
1330	478.2	1981	2	8	AO	271
1331	478.2	1981	2	9	AO	217
1332	478.2	1981	2	10	AO	290
1333	478.2	1981	4	1	AO	54
1334	478.2	1981	4	2	AO	108
1335	478.2	1981	4	3	AO	18
1336	478.2	1981	4	5	AO	18
1337	478.2	1981	4	6	AO	36
1338	478.2	1981	4	7	AO	54

MAY 1971 - NOVEMBER 1982

TAXON=HEXAGENIA BILINEATA

OBS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAP_LOC	SUM
1339	478.2	1981	4	8	A0	72
1340	474.2	1981	4	9	A0	36
1341	478.2	1982	1	2	A0	54
1342	474.2	1982	1	3	A0	12
1343	474.2	1982	1	4	A0	36
1344	478.2	1982	1	5	A0	181
1345	474.2	1982	1	6	A0	145
1346	474.2	1982	1	7	A0	36
1347	478.2	1982	1	8	A0	12
1348	474.2	1982	1	9	A0	90
1349	474.2	1982	1	10	A0	90
1350	474.2	1982	2	1	A0	54
1351	474.2	1982	2	2	A0	54
1352	474.2	1982	2	3	A0	72
1353	474.2	1982	2	4	A0	126
1354	474.2	1982	2	5	A0	126
1355	474.2	1982	2	6	A0	106
1356	474.2	1982	2	7	A0	126
1357	478.2	1982	2	8	A0	163
1358	474.2	1982	2	10	A0	106
1359	474.2	1982	3	1	A0	54
1360	478.2	1982	3	2	A0	18
1361	474.2	1982	3	3	A0	36
1362	474.2	1982	3	4	A0	18
1363	474.2	1982	3	5	A0	18
1364	474.2	1982	3	6	A0	18
1365	478.2	1982	3	8	A0	18
1366	474.2	1982	3	9	A0	18
1367	478.2	1982	3	10	A0	18
1368	474.2	1982	4	1	A0	163
1369	474.2	1982	4	2	A0	54
1370	478.2	1982	4	3	A0	253
1371	474.2	1982	4	4	A0	54
1372	474.2	1982	4	5	A0	126
1373	474.2	1982	4	6	A0	189
1374	474.2	1982	4	7	A0	181
1375	474.2	1982	4	8	A0	235
1376	474.2	1982	4	9	A0	108
1377	474.2	1982	4	10	A0	126
1378	483.4	1971	3	1	71	54
1379	483.4	1971	3	2	71	54
1380	483.4	1971	3	3	71	43
1381	483.4	1971	4	1	71	280
1382	483.4	1971	4	2	71	140
1383	483.4	1971	4	3	71	172
1384	483.4	1972	1	1		0
1385	483.4	1972	2	1		163
1386	483.4	1972	2	2		36
1387	483.4	1972	2	3		54
1388	483.4	1972	3	1		0
1389	483.4	1972	4	1	0	210
1390	483.4	1972	4	2	0	653
1391	483.4	1972	4	3	0	526
1392	483.4	1973	1	1	0	272

MAY 1971 - NOVEMBER 1992

TAXON=HEXAGENIA BILINEATA

OBS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
1393	483.4	1973	1	2	0	36
1394	483.4	1973	1	3	0	19
1395	483.4	1973	2	1		0
1396	483.4	1973	3	1		0
1397	483.4	1973	4	1	0	834
1398	483.4	1973	4	2	0	743
1399	483.4	1973	4	3	0	796
1400	483.4	1974	1	1	0	0
1401	483.4	1974	1	2	0	36
1402	483.4	1974	1	3	0	0
1403	483.4	1974	2	1		0
1404	483.4	1974	3	1	0	0
1405	483.4	1974	3	2	0	0
1406	483.4	1974	3	3	0	0
1407	483.4	1974	4	1	0	36
1408	483.4	1974	4	2	0	0
1409	483.4	1974	4	3	0	0
1410	483.4	1975	1	1		0
1411	483.4	1975	1	2		0
1412	483.4	1975	1	3		36
1413	483.4	1975	2	1		0
1414	483.4	1975	3	1	0	0
1415	483.4	1975	3	2	0	0
1416	483.4	1975	3	3	0	0
1417	483.4	1975	4	1		19
1418	483.4	1975	4	2		0
1419	483.4	1975	4	3		18
1420	483.4	1976	1	1	0	0
1421	483.4	1976	1	2	0	19
1422	483.4	1976	1	3	0	0
1423	483.4	1976	2	1	0	0
1424	483.4	1976	2	2	0	0
1425	483.4	1976	2	3	0	18
1426	483.4	1976	2	4	0	19
1427	483.4	1976	2	5	0	73
1428	483.4	1976	2	6	0	54
1429	483.4	1976	2	7	0	0
1430	483.4	1976	2	8	0	73
1431	483.4	1976	2	9	0	73
1432	483.4	1976	2	10	0	18
1433	483.4	1976	3	1	0	0
1434	483.4	1976	3	2	0	18
1435	483.4	1976	3	3	0	0
1436	483.4	1976	3	4	0	0
1437	483.4	1976	3	5	0	0
1438	483.4	1976	3	6	0	36
1439	483.4	1976	3	7	0	0
1440	483.4	1976	3	8	0	0
1441	483.4	1976	3	9	0	0
1442	483.4	1976	3	10	0	18
1443	483.4	1976	4	1	68	127
1444	483.4	1976	4	4	68	73
1445	483.4	1977	1	1	68	36
1446	483.4	1977	1	2	68	54

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TAYON=HEXAGENIA BILINEATA

ORS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
1447	483.4	1977	1	6	68	199
1448	483.4	1977	2	1		0
1449	483.4	1977	3	7	68	73
1450	483.4	1977	3	2	68	73
1451	483.4	1977	4	1		0
1452	483.4	1977	1	1		0
1453	483.4	1978	2	1	68	36
1454	483.4	1978	2	4	68	18
1455	483.4	1978	3	1		0
1456	483.4	1978	4	1		0
1457	483.4	1980	4	1	AC	18
1458	483.4	1980	4	3	AC	36
1459	483.4	1980	4	4	AC	18
1460	483.4	1980	4	5	AC	36
1461	483.4	1980	4	6	AC	36
1462	483.4	1980	4	8	AC	54
1463	483.4	1980	4	9	AC	72
1464	483.4	1980	4	10	AC	36
1465	483.4	1981	1	7	AC	18
1466	483.4	1981	1	8	AC	18
1467	483.4	1981	2	2	AC	18
1468	483.4	1981	2	7	AC	18
1469	483.4	1981	2	10	AC	18
1470	483.4	1981	3	1		0
1471	483.4	1981	4	2	AC	18
1472	483.4	1982	1	1	AC	18
1473	483.4	1982	2	10	AC	18
1474	483.4	1982	3	1		0
1475	483.4	1982	4	1		0
1476	490.5	1971	3	1	78	43
1477	490.5	1971	3	2	78	65
1478	490.5	1971	3	3	78	22
1479	490.5	1971	4	1	78	54
1480	490.5	1971	4	2	78	32
1481	490.5	1971	4	3	78	22
1482	490.5	1972	1	1		18
1483	490.5	1972	1	2		96
1484	490.5	1972	1	3		30
1485	490.5	1972	2	1		262
1486	490.5	1972	2	2		181
1487	490.5	1972	2	3		236
1488	490.5	1972	3	1	0	127
1489	490.5	1972	3	2	0	181
1490	490.5	1972	3	3	0	381
1491	490.5	1972	4	1	0	308
1492	490.5	1972	4	2	0	120
1493	490.5	1972	4	3	0	344
1494	490.5	1973	1	1	0	0
1495	490.5	1973	1	2	0	236
1496	490.5	1973	1	3	0	417
1497	490.5	1973	2	1	0	218
1498	490.5	1973	2	2	0	399
1499	490.5	1973	2	3	0	326
1500	490.5	1973	3	1	0	109

MAY 1971 - NOVEMBER 1982

TAXON=HEXAGENIA FILINEATA

OBS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
1501	490.5	1973	3	2	0	91
1502	490.5	1973	3	3	0	127
1503	490.5	1973	4	1	0	344
1504	490.5	1973	4	2	0	381
1505	490.5	1973	4	3	0	399
1506	490.5	1974	1	1	0	272
1507	490.5	1974	1	2	0	254
1508	490.5	1974	1	3	0	199
1509	490.5	1974	2	1	0	36
1510	490.5	1974	2	2	0	127
1511	490.5	1974	2	3	0	54
1512	490.5	1974	3	1	0	127
1513	490.5	1974	3	2	0	54
1514	490.5	1974	3	3	0	145
1515	490.5	1974	4	1	0	344
1516	490.5	1974	4	2	0	181
1517	490.5	1974	4	3	0	181
1518	490.5	1975	1	1		326
1519	490.5	1975	1	2		235
1520	490.5	1975	1	3		235
1521	490.5	1975	2	1	0	54
1522	490.5	1975	2	2	0	0
1523	490.5	1975	2	3	0	91
1524	490.5	1975	3	1	0	54
1525	490.5	1975	3	2	0	91
1526	490.5	1975	3	3	0	18
1527	490.5	1975	4	1		217
1528	490.5	1975	4	2		18
1529	490.5	1975	4	3		109
1530	490.5	1976	1	1	0	218
1531	490.5	1976	1	2	0	91
1532	490.5	1976	1	3	0	109
1533	490.5	1976	2	1	0	0
1534	490.5	1976	2	2	0	18
1535	490.5	1976	2	3	0	91
1536	490.5	1976	2	4	0	18
1537	490.5	1976	2	5	0	54
1538	490.5	1976	2	6	0	109
1539	490.5	1976	2	7	0	18
1540	490.5	1976	2	8	0	18
1541	490.5	1976	2	9	0	73
1542	490.5	1976	2	10	0	145
1543	490.5	1976	3	1	0	54
1544	490.5	1976	3	2	0	0
1545	490.5	1976	3	3	0	73
1546	490.5	1976	3	4	0	36
1547	490.5	1976	3	5	0	18
1548	490.5	1976	3	6	0	54
1549	490.5	1976	3	7	0	36
1550	490.5	1976	3	8	0	36
1551	490.5	1976	3	9	0	127
1552	490.5	1976	3	10	0	0
1553	490.5	1976	4	1	19	254
1554	490.5	1976	4	2	19	363

MAY 1971 - NOVEMBER 1982

TAXON=HEXAGENIA PILINEATA

GBS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
1555	490.5	1976	4	3	19	435
1556	490.5	1976	4	4	19	453
1557	490.5	1976	4	5	19	308
1558	490.5	1976	4	6	19	381
1559	490.5	1976	4	7	19	526
1560	490.5	1976	4	8	19	471
1561	490.5	1976	4	9	19	272
1562	490.5	1976	4	10	19	562
1563	490.5	1977	1	1	19	181
1564	490.5	1977	1	2	19	236
1565	490.5	1977	1	3	19	236
1566	490.5	1977	1	4	19	181
1567	490.5	1977	1	5	19	109
1568	490.5	1977	1	6	19	127
1569	490.5	1977	1	7	19	109
1570	490.5	1977	1	8	19	145
1571	490.5	1977	1	9	19	36
1572	490.5	1977	1	10	19	109
1573	490.5	1977	2	1	19	272
1574	490.5	1977	2	2	19	435
1575	490.5	1977	2	3	19	109
1576	490.5	1977	2	4	19	308
1577	490.5	1977	2	5	19	363
1578	490.5	1977	2	6	19	326
1579	490.5	1977	2	7	19	490
1580	490.5	1977	2	8	19	236
1581	490.5	1977	2	9	19	127
1582	490.5	1977	2	10	19	199
1583	490.5	1977	3	1	19	145
1584	490.5	1977	3	2	19	272
1585	490.5	1977	3	3	19	181
1586	490.5	1977	3	4	19	145
1587	490.5	1977	3	5	19	163
1588	490.5	1977	3	6	19	254
1589	490.5	1977	3	7	19	163
1590	490.5	1977	3	8	19	91
1591	490.5	1977	3	9	19	109
1592	490.5	1977	3	10	19	181
1593	490.5	1977	4	1	19	145
1594	490.5	1977	4	2	19	272
1595	490.5	1977	4	3	19	73
1596	490.5	1977	4	4	19	417
1597	490.5	1977	4	5	19	163
1598	490.5	1977	4	6	19	199
1599	490.5	1977	4	7	19	363
1600	490.5	1977	4	8	19	163
1601	490.5	1977	4	9	19	54
1602	490.5	1977	4	10	19	218
1603	490.5	1978	1	1	19	363
1604	490.5	1978	1	2	19	308
1605	490.5	1978	1	3	19	272
1606	490.5	1978	1	4	19	308
1607	490.5	1978	1	5	19	417
1608	490.5	1978	1	6	19	218

MAY 1971 - NOVEMBER 1982

TAXON=HEXAGENIA PILINEATA

ONS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
1609	490.5	1978	1	7	19	290
1610	490.5	1978	1	8	19	181
1611	490.5	1978	1	9	19	272
1612	490.5	1978	1	10	19	435
1613	490.5	1978	2	1	19	181
1614	490.5	1978	2	2	19	326
1615	490.5	1978	2	3	19	199
1616	490.5	1978	2	4	19	417
1617	490.5	1978	2	5	19	199
1618	490.5	1978	2	6	19	308
1619	490.5	1978	2	7	19	363
1620	490.5	1978	2	8	19	254
1621	490.5	1978	2	9	19	272
1622	490.5	1978	2	10	19	344
1623	490.5	1978	3	1	19	109
1624	490.5	1978	3	2	19	308
1625	490.5	1978	3	3	19	199
1626	490.5	1978	3	4	19	236
1627	490.5	1978	3	5	19	199
1628	490.5	1978	3	6	19	254
1629	490.5	1978	3	7	19	290
1630	490.5	1978	3	8	19	218
1631	490.5	1978	3	9	19	236
1632	490.5	1978	3	10	19	181
1633	490.5	1978	4	1	19	109
1634	490.5	1978	4	2	19	163
1635	490.5	1978	4	3	19	145
1636	490.5	1978	4	4	19	163
1637	490.5	1978	4	5	19	54
1638	490.5	1978	4	6	19	163
1639	490.5	1978	4	7	19	218
1640	490.5	1978	4	8	19	91
1641	490.5	1978	4	9	19	199
1642	490.5	1978	4	10	19	127
1643	490.5	1980	4	1	AQ	36
1644	490.5	1980	4	2	AQ	54
1645	490.5	1980	4	4	AQ	54
1646	490.5	1980	4	5	AQ	72
1647	490.5	1980	4	6	AQ	18
1648	490.5	1980	4	7	AQ	54
1649	490.5	1980	4	8	AQ	18
1650	490.5	1980	4	10	AQ	36
1651	490.5	1981	1	1	AQ	36
1652	490.5	1981	1	3	AQ	36
1653	490.5	1981	1	7	AQ	36
1654	490.5	1981	1	8	AQ	54
1655	490.5	1981	1	9	AQ	54
1656	490.5	1981	1	10	AQ	36
1657	490.5	1981	2	1	AQ	181
1658	490.5	1981	2	2	AQ	72
1659	490.5	1981	2	3	AQ	108
1660	490.5	1981	2	4	AQ	90
1661	490.5	1981	2	5	AQ	90
1662	490.5	1981	2	6	AQ	72

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TAXON=HEXAGENIA PILINEATA

ORS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
1663	490.5	1981	2	7	AQ	90
1664	490.5	1981	2	8	AQ	126
1665	490.5	1981	2	9	AQ	199
1666	490.5	1981	2	10	AQ	72
1667	490.5	1981	3	1	AQ	36
1668	490.5	1981	3	2	AQ	36
1669	490.5	1981	3	3	AQ	54
1670	490.5	1981	3	4	AQ	18
1671	490.5	1981	3	5	AQ	54
1672	490.5	1981	3	7	AQ	18
1673	490.5	1981	3	8	AQ	18
1674	490.5	1981	3	9	AQ	18
1675	490.5	1981	3	10	AQ	36
1676	490.5	1981	4	2	AQ	18
1677	490.5	1981	4	4	AQ	18
1678	490.5	1981	4	6	AQ	18
1679	490.5	1981	4	7	AQ	18
1680	490.5	1981	4	8	AQ	18
1681	490.5	1981	4	10	AQ	18
1682	490.5	1982	1	1	AQ	54
1683	490.5	1982	1	2	AQ	18
1684	490.5	1982	1	5	AQ	36
1685	490.5	1982	1	6	AQ	36
1686	490.5	1982	1	7	AQ	18
1687	490.5	1982	1	8	AQ	36
1688	490.5	1982	1	9	AQ	18
1689	490.5	1982	2	1	AQ	102
1690	490.5	1982	2	2	AQ	72
1691	490.5	1982	2	3	AQ	108
1692	490.5	1982	2	4	AQ	18
1693	490.5	1982	2	5	AQ	72
1694	490.5	1982	2	6	AQ	36
1695	490.5	1982	2	7	AQ	54
1696	490.5	1982	2	8	AQ	72
1697	490.5	1982	2	10	AQ	18
1698	490.5	1982	3	1	AQ	72
1699	490.5	1982	3	2	AQ	54
1700	490.5	1982	3	3	AQ	36
1701	490.5	1982	3	4	AQ	18
1702	490.5	1982	3	5	AQ	36
1703	490.5	1982	3	6	AQ	18
1704	490.5	1982	3	7	AQ	36
1705	490.5	1982	3	8	AQ	54
1706	490.5	1982	3	9	AQ	18
1707	490.5	1982	3	10	AQ	18
1708	490.5	1982	4	2	AQ	36
1709	490.5	1982	4	4	AQ	72
1710	490.5	1982	4	5	AQ	36
1711	490.5	1982	4	6	AQ	18
1712	490.5	1982	4	7	AQ	72
1713	490.5	1982	4	8	AQ	36
1714	490.5	1982	4	9	AQ	36
1715	490.5	1982	4	10	AQ	18

APPENDIX M

CHIRONOMIDAE (NO./M²) COLLECTED IN THE
VICINITY OF SEQUOYAH NUCLEAR PLANT
DURING PREOPERATIONAL AND OPERATIONAL MONITORING,
1971 THROUGH 1982

Appendix M. Chironomidae (No./m²) Collected in the Vicinity of Sequoyah Nuclear Plant, Chickamauga Reservoir, During Preoperational and Operational Monitoring, 1971 Through 1982

MAY 1971 - NOVEMBER 1982

TAXON=CHIRONOMIDAE

OBS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
1	478.2	1971	3	1	82	43
2	478.2	1971	3	2	82	43
3	478.2	1971	3	3	82	75
4	478.2	1971	4	1	82	247
5	478.2	1971	4	2	82	237
6	478.2	1971	4	3	82	280
7	478.2	1972	1	1		249
8	478.2	1972	1	2		173
9	478.2	1972	1	3		115
10	478.2	1972	2	1		163
11	478.2	1972	2	2		181
12	478.2	1972	2	3		73
13	478.2	1972	3	1	0	90
14	478.2	1972	3	2	0	36
15	478.2	1972	3	3	0	36
16	478.2	1972	4	1	0	399
17	478.2	1972	4	2	0	162
18	478.2	1972	4	3	0	72
19	478.2	1973	1	1	0	398
20	478.2	1973	1	2	0	363
21	478.2	1973	1	3	0	217
22	478.2	1973	2	1	0	0
23	478.2	1973	2	2	0	36
24	478.2	1973	2	3	0	36
25	478.2	1973	3	1	0	0
26	478.2	1973	3	2	0	0
27	478.2	1973	3	3	0	0
28	478.2	1973	4	1	0	417
29	478.2	1973	4	2	0	399
30	478.2	1973	4	3	0	290
31	478.2	1974	1	1	0	834
32	478.2	1974	1	2	0	363
33	478.2	1974	1	3	0	416
34	478.2	1974	2	1	0	0
35	478.2	1974	2	2	0	0
36	478.2	1974	2	3	0	18
37	478.2	1974	3	1	0	18
38	478.2	1974	3	2	0	18
39	478.2	1974	3	3	0	36
40	478.2	1974	4	1	0	381
41	478.2	1974	4	2	0	236
42	478.2	1974	4	3	0	326
43	478.2	1975	1	1		434
44	478.2	1975	1	2		271
45	478.2	1975	1	3		507
46	478.2	1975	2	1	0	36
47	478.2	1975	2	2	0	54
48	478.2	1975	2	3	0	54
49	478.2	1975	3	1	0	0
50	478.2	1975	3	2	0	91
51	478.2	1975	3	3	0	73
52	478.2	1975	4	1		90
53	478.2	1975	4	2		181
54	478.2	1975	4	3		90

MAY 1971 - NOVEMBER 1982

TAXON=CHIRONOMIDAE

OBS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
55	478.2	1976	1	1	0	36
56	478.2	1976	1	2	0	489
57	478.2	1976	1	3	0	145
58	478.2	1976	2	1	0	0
59	478.2	1976	2	2	0	199
60	478.2	1976	2	3	0	271
61	478.2	1976	2	4	0	163
62	478.2	1976	2	5	0	161
63	478.2	1976	2	6	0	36
64	478.2	1976	2	7	0	0
65	478.2	1976	2	8	0	109
66	478.2	1976	2	9	0	91
67	478.2	1976	2	10	0	36
68	478.2	1976	3	1	0	254
69	478.2	1976	3	2	0	145
70	478.2	1976	3	3	0	109
71	478.2	1976	3	4	0	54
72	478.2	1976	3	5	0	235
73	478.2	1976	3	6	0	109
74	478.2	1976	3	7	0	36
75	478.2	1976	3	8	0	36
76	478.2	1976	3	9	0	0
77	478.2	1976	3	10	0	36
78	478.2	1976	4	1	19	54
79	478.2	1976	4	2	19	218
80	478.2	1976	4	3	19	54
81	478.2	1976	4	4	19	54
82	478.2	1976	4	5	19	54
83	478.2	1976	4	6	19	54
84	478.2	1976	4	7	19	162
85	478.2	1976	4	8	19	345
86	478.2	1976	4	9	19	163
87	478.2	1976	4	10	19	163
88	478.2	1977	1	1	19	91
89	478.2	1977	1	2	19	54
90	478.2	1977	1	3	19	54
91	478.2	1977	1	4	19	54
92	478.2	1977	1	5	19	127
93	478.2	1977	1	6	19	18
94	478.2	1977	1	7	19	181
95	478.2	1977	1	8	19	90
96	478.2	1977	1	9	19	72
97	478.2	1977	1	10	19	235
98	478.2	1977	2	1	19	108
99	478.2	1977	2	2	19	54
100	478.2	1977	2	3	19	236
101	478.2	1977	2	4	19	235
102	478.2	1977	2	5	19	309
103	478.2	1977	2	6	19	218
104	478.2	1977	2	7	19	290
105	478.2	1977	2	8	19	237
106	478.2	1977	2	9	19	308
107	478.2	1977	2	10	19	236
108	478.2	1977	3	1	21	54

MAY 1971 - NOVEMBER 1982

TAXON=CHIRONOMIDAE

OBS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
163	478.2	1981	1	4	AO	271
164	478.2	1981	1	5	AO	325
165	478.2	1981	1	6	AO	235
166	478.2	1981	1	7	AO	199
167	478.2	1981	1	8	AO	108
168	478.2	1981	1	9	AO	235
169	478.2	1981	1	10	AO	253
170	478.2	1981	2	1	AO	362
171	478.2	1981	2	2	AO	271
172	478.2	1981	2	3	AO	199
173	478.2	1981	2	4	AO	235
174	478.2	1981	2	5	AO	325
175	478.2	1981	2	6	AO	144
176	478.2	1981	2	7	AO	326
177	478.2	1981	2	8	AO	180
178	478.2	1981	2	9	AO	289
179	478.2	1981	2	10	AO	289
180	478.2	1981	4	1	AO	271
181	478.2	1981	4	2	AO	108
182	478.2	1981	4	3	AO	18
183	478.2	1981	4	4	AO	108
184	478.2	1981	4	5	AO	108
185	478.2	1981	4	6	AO	108
186	478.2	1981	4	7	AO	108
187	478.2	1981	4	8	AO	90
188	478.2	1981	4	9	AO	90
189	478.2	1981	4	10	AO	162
190	478.2	1982	1	1	AO	144
191	478.2	1982	1	2	AO	90
192	478.2	1982	1	3	AO	36
193	478.2	1982	1	4	AO	18
194	478.2	1982	1	5	AO	307
195	478.2	1982	1	6	AO	18
196	478.2	1982	1	7	AO	54
197	478.2	1982	1	8	AO	108
198	478.2	1982	1	9	AO	54
199	478.2	1982	1	10	AO	271
200	478.2	1982	2	1	AO	126
201	478.2	1982	2	2	AO	54
202	478.2	1982	2	3	AO	162
203	478.2	1982	2	4	AO	72
204	478.2	1982	2	5	AO	144
205	478.2	1982	2	6	AO	126
206	478.2	1982	2	7	AO	108
207	478.2	1982	2	8	AO	144
208	478.2	1982	2	9	AO	181
209	478.2	1982	2	10	AO	162
210	478.2	1982	3	1	AO	90
211	478.2	1982	3	3	AO	36
212	478.2	1982	3	4	AO	18
213	478.2	1982	3	5	AO	36
214	478.2	1982	3	6	AO	36
215	478.2	1982	3	7	AO	54
216	478.2	1982	3	9	AO	72

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TAXON=CHIRONOMIDAE

OBS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
109	478.2	1977	3	2	15	36
110	478.2	1977	3	3	15	217
111	478.2	1977	3	4	15	72
112	478.2	1977	3	5	15	90
113	478.2	1977	3	6	15	54
114	478.2	1977	3	7	15	15
115	478.2	1977	3	8	15	72
116	478.2	1977	3	9	15	54
117	478.2	1977	3	10	15	54
118	478.2	1977	4	1	15	236
119	478.2	1977	4	3	15	271
120	478.2	1977	4	4	15	181
121	478.2	1977	4	5	15	145
122	478.2	1977	4	6	15	200
123	478.2	1977	4	7	15	145
124	478.2	1977	4	8	15	36
125	478.2	1977	4	9	15	181
126	478.2	1977	4	10	15	290
127	478.2	1978	1	1	19	290
128	478.2	1978	1	2	19	181
129	478.2	1978	2	1	19	36
130	478.2	1978	2	2	19	18
131	478.2	1978	2	5	19	18
132	478.2	1978	2	7	19	18
133	478.2	1978	2	8	19	54
134	478.2	1978	2	9	19	54
135	478.2	1978	3	1	19	199
136	478.2	1978	3	2	19	36
137	478.2	1978	3	3	19	19
138	478.2	1978	3	4	19	145
139	478.2	1978	3	5	19	109
140	478.2	1978	3	6	19	90
141	478.2	1978	3	7	19	145
142	478.2	1978	3	8	19	18
143	478.2	1978	3	9	19	108
144	478.2	1978	3	10	19	145
145	478.2	1978	4	3	19	54
146	478.2	1978	4	5	19	18
147	478.2	1978	4	6	19	72
148	478.2	1978	4	7	19	72
149	478.2	1978	4	8	19	54
150	478.2	1978	4	9	19	163
151	478.2	1980	4	1	A0	217
152	478.2	1980	4	2	A0	380
153	478.2	1980	4	3	A0	379
154	478.2	1980	4	4	A0	199
155	478.2	1980	4	5	A0	180
156	478.2	1980	4	6	A0	126
157	478.2	1980	4	7	A0	289
158	478.2	1980	4	9	A0	325
159	478.2	1980	4	10	A0	325
160	478.2	1981	1	1	A0	289
161	478.2	1981	1	2	A0	361
162	478.2	1981	1	3	A0	199

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TAXON=CHIRONOMIDAE

ORS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
217	478.2	1982	3	10	AO	72
218	478.2	1982	4	1	AO	289
219	478.2	1982	4	2	AO	181
220	478.2	1982	4	3	AO	54
221	478.2	1982	4	4	AO	126
222	478.2	1982	4	5	AO	126
223	478.2	1982	4	6	AO	162
224	478.2	1982	4	7	AO	144
225	478.2	1982	4	8	AO	271
226	478.2	1982	4	9	AO	144
227	478.2	1982	4	10	AO	199
228	483.4	1971	3	1	71	129
229	483.4	1971	3	2	71	151
230	483.4	1971	3	3	71	11
231	483.4	1971	4	1	71	312
232	483.4	1971	4	2	71	54
233	483.4	1971	4	3	71	32
234	483.4	1972	1	1		19
235	483.4	1972	1	2		19
236	483.4	1972	1	3		19
237	483.4	1972	2	1		54
238	483.4	1972	2	2		18
239	483.4	1972	2	3		72
240	483.4	1972	3	1	0	91
241	483.4	1972	3	2	0	91
242	483.4	1972	3	3	0	109
243	483.4	1972	4	1	0	399
244	483.4	1972	4	2	0	253
245	483.4	1972	4	3	0	199
246	483.4	1973	1	1	0	36
247	483.4	1973	1	2	0	0
248	483.4	1973	1	3	0	0
249	483.4	1973	2	1	0	0
250	483.4	1973	2	2	0	18
251	483.4	1973	2	3	0	0
252	483.4	1973	3	1	0	18
253	483.4	1973	3	2	0	18
254	483.4	1973	3	3	0	18
255	483.4	1973	4	1	0	102
256	483.4	1973	4	2	0	36
257	483.4	1973	4	3	0	109
258	483.4	1974	1	1	0	54
259	483.4	1974	1	2	0	18
260	483.4	1974	1	3	0	18
261	483.4	1974	2	1	0	0
262	483.4	1974	2	2	0	0
263	483.4	1974	2	3	0	36
264	483.4	1974	3	1	0	54
265	483.4	1974	3	2	0	54
266	483.4	1974	3	3	0	36
267	483.4	1974	4	1	0	0
268	483.4	1974	4	2	0	0
269	483.4	1974	4	3	0	0
270	483.4	1975	1	1		18

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TAXON=CHIRONOMIDAE

OBS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
271	483.4	1975	1	2		1A
272	483.4	1975	1	3		54
273	483.4	1975	2	1	0	0
274	483.4	1975	2	2	0	0
275	483.4	1975	2	3	0	1A
276	483.4	1975	3	1	0	36
277	483.4	1975	3	2	0	616
278	483.4	1975	3	3	0	13
279	483.4	1975	4	1		0
280	483.4	1976	1	1	0	0
281	483.4	1976	1	2	0	54
282	483.4	1976	1	3	0	0
283	483.4	1976	2	1	0	0
284	483.4	1976	2	2	0	0
285	483.4	1976	2	3	0	0
286	483.4	1976	2	4	0	18
287	483.4	1976	2	5	0	18
288	483.4	1976	2	6	0	18
289	483.4	1976	2	7	0	72
290	483.4	1976	2	8	0	54
291	483.4	1976	2	9	0	18
292	483.4	1976	2	10	0	0
293	483.4	1976	3	1	0	18
294	483.4	1976	3	2	0	54
295	483.4	1976	3	3	0	0
296	483.4	1976	3	4	0	0
297	483.4	1976	3	5	0	0
298	483.4	1976	3	6	0	90
299	483.4	1976	3	7	0	0
300	483.4	1976	3	8	0	0
301	483.4	1976	3	9	0	18
302	483.4	1976	3	10	0	0
303	483.4	1976	4	1	68	18
304	483.4	1976	4	3	68	18
305	483.4	1976	4	4	68	18
306	483.4	1976	4	6	68	18
307	483.4	1976	4	10	68	36
308	483.4	1977	1	1	68	18
309	483.4	1977	1	8	68	18
310	483.4	1977	2	2	68	18
311	483.4	1977	2	3	68	18
312	483.4	1977	2	5	68	18
313	483.4	1977	2	9	68	36
314	483.4	1977	2	10	68	36
315	483.4	1977	3	2	68	18
316	483.4	1977	3	5	68	36
317	483.4	1977	3	6	68	72
318	483.4	1977	3	7	68	180
319	483.4	1977	3	8	68	218
320	483.4	1977	3	9	68	18
321	483.4	1977	3	10	68	72
322	483.4	1977	4	1	68	18
323	483.4	1977	4	4	68	54
324	483.4	1977	4	6	68	36

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TAXON=CHIRONOMIDAE

ORS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
325	483.4	1977	4	7	68	36
326	483.4	1978	1	10	68	18
327	483.4	1978	2	1	68	18
328	483.4	1978	2	4	68	18
329	483.4	1978	2	7	68	18
330	483.4	1978	3	2	68	108
331	483.4	1978	3	3	68	36
332	483.4	1978	3	4	68	91
333	483.4	1978	3	5	68	18
334	483.4	1978	3	6	68	18
335	483.4	1978	3	7	68	73
336	483.4	1978	3	9	68	127
337	483.4	1979	4	1	68	73
338	483.4	1980	4	1	AC	54
339	483.4	1980	4	2	AC	90
340	483.4	1980	4	3	AC	162
341	483.4	1980	4	4	AC	108
342	483.4	1980	4	5	AC	144
343	483.4	1980	4	6	AC	253
344	483.4	1980	4	7	AC	36
345	483.4	1980	4	8	AC	253
346	483.4	1980	4	9	AC	126
347	483.4	1980	4	10	AC	199
348	483.4	1981	1	1	AC	18
349	483.4	1981	1	2	AC	54
350	483.4	1981	1	3	AC	72
351	483.4	1981	1	4	AC	36
352	483.4	1981	1	5	AC	72
353	483.4	1981	1	6	AC	90
354	483.4	1981	1	7	AC	596
355	483.4	1981	1	8	AC	270
356	483.4	1981	1	9	AC	216
357	483.4	1981	1	10	AC	126
358	483.4	1981	2	1	AC	216
359	483.4	1981	2	2	AC	162
360	483.4	1981	2	3	AC	198
361	483.4	1981	2	4	AC	144
362	483.4	1981	2	5	AC	326
363	483.4	1981	2	6	AC	507
364	483.4	1981	2	7	AC	362
365	483.4	1981	2	8	AC	217
366	483.4	1981	2	9	AC	253
367	483.4	1981	2	10	AC	235
368	483.4	1981	3	1	AC	18
369	483.4	1981	3	2	AC	18
370	483.4	1981	4	2	AC	18
371	483.4	1981	4	3	AC	36
372	483.4	1981	4	4	AC	18
373	483.4	1981	4	5	AC	36
374	483.4	1981	4	6	AC	36
375	483.4	1981	4	8	AC	36
376	483.4	1981	4	9	AC	54
377	483.4	1981	4	10	AC	72
378	483.4	1982	1	1	AC	199

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TAXON=CHIRONOMIDAE

OBS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
379	483.4	1982	1	2	AC	126
380	483.4	1982	1	4	AC	54
381	483.4	1982	1	5	AC	72
382	483.4	1982	1	6	AC	36
383	483.4	1982	1	7	AC	180
384	483.4	1982	1	8	AC	36
385	483.4	1982	1	9	AC	54
386	483.4	1982	2	1	AC	36
387	483.4	1982	2	3	AC	18
388	483.4	1982	2	5	AC	18
389	483.4	1982	2	6	AC	36
390	483.4	1982	2	7	AC	36
391	483.4	1982	2	8	AC	90
392	483.4	1982	2	9	AC	36
393	483.4	1982	2	10	AC	18
394	483.4	1982	3	1	AC	18
395	483.4	1982	3	2	AC	145
396	483.4	1982	3	5	AC	54
397	483.4	1982	3	6	AC	72
398	483.4	1982	3	7	AC	90
399	483.4	1982	3	8	AC	126
400	483.4	1982	3	9	AC	145
401	483.4	1982	3	10	AC	72
402	483.4	1982	4	2	AC	36
403	483.4	1982	4	3	AC	18
404	483.4	1982	4	4	AC	18
405	483.4	1982	4	5	AC	18
406	483.4	1982	4	7	AC	36
407	483.4	1982	4	8	AC	18
408	483.4	1982	4	9	AC	18
409	483.4	1982	4	10	AC	18
410	490.5	1971	3	1	78	43
411	490.5	1971	3	2	78	43
412	490.5	1971	3	3	78	32
413	490.5	1971	4	1	78	140
414	490.5	1971	4	2	78	75
415	490.5	1971	4	3	78	109
416	490.5	1972	1	1		58
417	490.5	1972	1	2		77
418	490.5	1972	1	3		173
419	490.5	1972	2	1		18
420	490.5	1972	2	2		18
421	490.5	1972	2	3		54
422	490.5	1972	3	1	0	18
423	490.5	1972	3	2	0	127
424	490.5	1972	3	3	0	36
425	490.5	1972	4	1	0	235
426	490.5	1972	4	2	0	145
427	490.5	1972	4	3	0	90
428	490.5	1973	1	1	0	36
429	490.5	1973	1	2	0	0
430	490.5	1973	1	3	0	72
431	490.5	1973	2	1	0	109
432	490.5	1973	2	2	0	91

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TAXON=CHIRONOMIDAE

OPS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
433	490.5	1973	2	3	0	36
434	490.5	1973	3	1	0	36
435	490.5	1973	3	2	0	90
436	490.5	1973	3	3	0	36
437	490.5	1973	4	1	0	689
438	490.5	1973	4	2	0	852
439	490.5	1973	4	3	0	1705
440	490.5	1974	1	1	0	36
441	490.5	1974	1	2	0	18
442	490.5	1974	1	3	0	18
443	490.5	1974	2	1	0	109
444	490.5	1974	2	2	0	18
445	490.5	1974	2	3	0	90
446	490.5	1974	3	1	0	0
447	490.5	1974	3	2	0	36
448	490.5	1974	3	3	0	18
449	490.5	1974	4	1	0	182
450	490.5	1974	4	2	0	18
451	490.5	1974	4	3	0	18
452	490.5	1975	1	1	0	90
453	490.5	1975	1	2	0	72
454	490.5	1975	1	3	0	271
455	490.5	1975	2	1	0	18
456	490.5	1975	2	2	0	91
457	490.5	1975	2	3	0	0
458	490.5	1975	3	1	0	18
459	490.5	1975	3	2	0	0
460	490.5	1975	3	3	0	0
461	490.5	1975	4	1	0	108
462	490.5	1975	4	2	0	0
463	490.5	1975	4	3	0	72
464	490.5	1976	1	1	0	18
465	490.5	1976	1	2	0	0
466	490.5	1976	1	3	0	54
467	490.5	1976	2	1	0	127
468	490.5	1976	2	2	0	36
469	490.5	1976	2	3	0	0
470	490.5	1976	2	4	0	36
471	490.5	1976	2	5	0	72
472	490.5	1976	2	6	0	91
473	490.5	1976	2	7	0	163
474	490.5	1976	2	8	0	199
475	490.5	1976	2	9	0	109
476	490.5	1976	2	10	0	54
477	490.5	1976	3	1	0	36
478	490.5	1976	3	2	0	36
479	490.5	1976	3	3	0	18
480	490.5	1976	3	4	0	36
481	490.5	1976	3	5	0	0
482	490.5	1976	3	6	0	36
483	490.5	1976	3	7	0	18
484	490.5	1976	3	8	0	0
485	490.5	1976	3	9	0	54
486	490.5	1976	3	10	0	36

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TAXON=CHIRONOMIDAE

OBS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
487	490.5	1976	4	1	19	73
488	490.5	1976	4	2	19	72
489	490.5	1976	4	3	19	54
490	490.5	1976	4	5	19	72
491	490.5	1976	4	6	19	145
492	490.5	1976	4	7	19	91
493	490.5	1976	4	8	19	163
494	490.5	1976	4	9	19	36
495	490.5	1976	4	10	19	109
496	490.5	1977	1	2	19	18
497	490.5	1977	1	3	19	163
498	490.5	1977	1	4	19	36
499	490.5	1977	1	5	19	18
500	490.5	1977	1	10	19	18
501	490.5	1977	2	1	19	182
502	490.5	1977	2	2	19	218
503	490.5	1977	2	3	19	36
504	490.5	1977	2	4	19	90
505	490.5	1977	2	5	19	199
506	490.5	1977	2	6	19	145
507	490.5	1977	2	7	19	181
508	490.5	1977	2	8	19	72
509	490.5	1977	2	9	19	54
510	490.5	1977	2	10	19	72
511	490.5	1977	3	1	19	90
512	490.5	1977	3	2	19	127
513	490.5	1977	3	3	19	91
514	490.5	1977	3	4	19	54
515	490.5	1977	3	5	19	72
516	490.5	1977	3	6	19	108
517	490.5	1977	3	7	19	109
518	490.5	1977	3	8	19	217
519	490.5	1977	3	9	19	145
520	490.5	1977	3	10	19	108
521	490.5	1977	4	1	19	217
522	490.5	1977	4	2	19	109
523	490.5	1977	4	3	19	181
524	490.5	1977	4	4	19	181
525	490.5	1977	4	5	19	254
526	490.5	1977	4	6	19	290
527	490.5	1977	4	7	19	163
528	490.5	1977	4	8	19	199
529	490.5	1977	4	9	19	145
530	490.5	1977	4	10	19	164
531	490.5	1978	1	1	19	181
532	490.5	1978	1	2	19	127
533	490.5	1978	1	3	19	236
534	490.5	1978	1	4	19	181
535	490.5	1978	1	5	19	217
536	490.5	1978	1	6	19	72
537	490.5	1978	1	7	19	90
538	490.5	1978	1	8	19	127
539	490.5	1978	1	9	19	36
540	490.5	1978	1	10	19	163

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TAXON=CHIRONOMIDAE

ORS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
541	490.5	1978	2	1	19	145
542	490.5	1978	2	2	19	108
543	490.5	1978	2	3	19	163
544	490.5	1978	2	4	19	72
545	490.5	1978	2	5	19	90
546	490.5	1978	2	6	19	181
547	490.5	1978	2	7	19	145
548	490.5	1978	2	8	19	200
549	490.5	1978	2	9	19	127
550	490.5	1978	2	10	19	72
551	490.5	1978	3	1	19	36
552	490.5	1978	3	2	19	18
553	490.5	1978	3	3	19	108
554	490.5	1978	3	4	19	91
555	490.5	1978	3	5	19	90
556	490.5	1978	3	6	19	36
557	490.5	1978	3	7	19	108
558	490.5	1978	3	8	19	72
559	490.5	1978	3	9	19	72
560	490.5	1978	3	10	19	18
561	490.5	1978	4	1	19	127
562	490.5	1978	4	2	19	108
563	490.5	1978	4	3	19	36
564	490.5	1978	4	4	19	36
565	490.5	1978	4	5	19	91
566	490.5	1978	4	6	19	127
567	490.5	1978	4	7	19	36
568	490.5	1978	4	8	19	36
569	490.5	1978	4	9	19	108
570	490.5	1978	4	10	19	72
571	490.5	1980	4	1	AQ	108
572	490.5	1980	4	2	AQ	126
573	490.5	1980	4	3	AQ	72
574	490.5	1980	4	4	AQ	72
575	490.5	1980	4	5	AQ	90
576	490.5	1980	4	6	AQ	18
577	490.5	1980	4	7	AQ	72
578	490.5	1981	1	1	AQ	217
579	490.5	1981	1	2	AQ	108
580	490.5	1981	1	3	AQ	126
581	490.5	1981	1	4	AQ	235
582	490.5	1981	1	5	AQ	199
583	490.5	1981	1	6	AQ	181
584	490.5	1981	1	7	AQ	126
585	490.5	1981	1	8	AQ	271
586	490.5	1981	1	9	AQ	198
587	490.5	1981	1	10	AQ	249
588	490.5	1981	2	1	AQ	108
589	490.5	1981	2	2	AQ	234
590	490.5	1981	2	3	AQ	36
591	490.5	1981	2	4	AQ	36
592	490.5	1981	2	5	AQ	72
593	490.5	1981	2	6	AQ	36
594	490.5	1981	2	7	AQ	162

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TAXON=CHIRONOMIDAE

OBS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
595	490.5	1981	2	8	AQ	54
596	490.5	1981	2	9	AQ	217
597	490.5	1981	2	10	AQ	108
598	490.5	1981	3	1	AQ	36
599	490.5	1981	3	2	AQ	36
600	490.5	1981	3	3	AQ	36
601	490.5	1981	3	4	AQ	54
602	490.5	1981	3	5	AQ	54
603	490.5	1981	3	7	AQ	54
604	490.5	1981	3	8	AQ	36
605	490.5	1981	3	9	AQ	19
606	490.5	1981	3	10	AQ	54
607	490.5	1981	4	1	AQ	36
608	490.5	1981	4	2	AQ	54
609	490.5	1981	4	3	AQ	72
610	490.5	1981	4	5	AQ	54
611	490.5	1981	4	6	AQ	36
612	490.5	1981	4	7	AQ	36
613	490.5	1981	4	8	AQ	13
614	490.5	1981	4	9	AQ	36
615	490.5	1981	4	10	AQ	126
616	490.5	1982	1	1	AQ	72
617	490.5	1982	1	2	AQ	54
618	490.5	1982	1	3	AQ	54
619	490.5	1982	1	4	AQ	50
620	490.5	1982	1	5	AQ	199
621	490.5	1982	1	6	AQ	216
622	490.5	1982	1	7	AQ	126
623	490.5	1982	1	8	AQ	162
624	490.5	1982	1	9	AQ	144
625	490.5	1982	1	10	AQ	54
626	490.5	1982	2	1	AQ	36
627	490.5	1982	2	2	AQ	108
628	490.5	1982	2	3	AQ	72
629	490.5	1982	2	4	AQ	108
630	490.5	1982	2	5	AQ	126
631	490.5	1982	2	6	AQ	90
632	490.5	1982	2	7	AQ	72
633	490.5	1982	2	8	AQ	54
634	490.5	1982	2	9	AQ	72
635	490.5	1982	2	10	AQ	90
636	490.5	1982	3	1	AQ	36
637	490.5	1982	3	2	AQ	54
638	490.5	1982	3	3	AQ	54
639	490.5	1982	3	4	AQ	36
640	490.5	1982	3	5	AQ	36
641	490.5	1982	3	6	AQ	90
642	490.5	1982	3	7	AQ	36
643	490.5	1982	4	1	AQ	72
644	490.5	1982	4	2	AQ	126
645	490.5	1982	4	3	AQ	54
646	490.5	1982	4	4	AQ	72
647	490.5	1982	4	5	AQ	72
648	490.5	1982	4	6	AQ	54

MAY 1971 - NOVEMBER 1962

TAXON=CHIRONOMIDAE

ORS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
649	490.5	1982	4	7	AQ	54
650	490.5	1982	4	8	AQ	163
651	490.5	1982	4	9	AQ	72
652	490.5	1982	4	10	AQ	90

APPENDIX N

OLIGOCHAETA (NO./M²) COLLECTED IN THE
VICINITY OF SEQUOYAH NUCLEAR PLANT
DURING PREOPERATIONAL AND OPERATIONAL
MONITORING, 1971 THROUGH 1982

Appendix N. Oligochaeta (No./m²) Collected in the Vicinity of Sequoyah Nuclear Plant, Chickamauga Reservoir, During Preoperational and Operational Monitoring, 1971 Through 1982

MAY 1971 - NOVEMBER 1982

TAXON=OLIGOCHAETA

GRS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LCC	SUMM
1716	478.2	1971	3	1	82	11
1717	478.2	1971	3	2	82	16
1718	478.2	1971	4	1	82	86
1719	478.2	1971	4	2	82	32
1720	478.2	1971	4	3	82	161
1721	478.2	1972	2	1		5
1722	478.2	1972	2	2		25
1723	478.2	1972	2	3		6
1724	478.2	1972	3	1	0	0
1725	478.2	1972	3	2	0	19
1726	478.2	1972	3	3	0	24
1727	478.2	1972	4	1	0	22
1728	478.2	1972	4	2	0	2
1729	478.2	1972	4	3	0	0
1730	478.2	1973	1	1	0	0
1731	478.2	1973	1	2	0	16
1732	478.2	1973	1	3	0	32
1733	478.2	1973	2	1		0
1734	478.2	1973	3	1	0	0
1735	478.2	1973	3	2	0	16
1736	478.2	1973	3	3	0	53
1737	478.2	1973	4	1	0	0
1738	478.2	1973	4	2	0	0
1739	478.2	1973	4	3	0	17
1740	478.2	1974	1	1	0	32
1741	478.2	1974	1	2	0	11
1742	478.2	1974	1	3	0	69
1743	478.2	1974	2	1	0	27
1744	478.2	1974	2	2	0	19
1745	478.2	1974	2	3	0	16
1746	478.2	1974	3	1	0	43
1747	478.2	1974	3	2	0	69
1748	478.2	1974	3	3	0	37
1749	478.2	1974	4	1	0	57
1750	478.2	1974	4	2	0	30
1751	478.2	1974	4	3	0	24
1752	478.2	1975	1	1		0
1753	478.2	1975	2	1	0	25
1754	478.2	1975	2	2	0	21
1755	478.2	1975	2	3	0	43
1756	478.2	1975	3	1	0	85
1757	478.2	1975	3	2	0	176
1758	478.2	1975	3	3	0	174
1759	478.2	1975	4	1		543
1760	478.2	1975	4	2		271
1761	478.2	1975	4	3		0
1762	478.2	1976	1	1	0	0
1763	478.2	1976	1	2	0	21
1764	478.2	1976	1	3	0	22
1765	478.2	1976	2	1	0	11
1766	478.2	1976	2	2	0	131
1767	478.2	1976	2	3	0	181
1768	478.2	1976	2	4	0	106
1769	478.2	1976	2	5	0	77

MAY 1971 - NOVEMBER 1982

TAXON=OLIGOCHAETA

ORS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
1770	478.2	1976	2	6	0	0
1771	478.2	1976	2	7	0	0
1772	478.2	1976	2	6	0	43
1773	478.2	1976	2	9	0	50
1774	478.2	1976	2	10	0	30
1775	478.2	1976	3	1	0	101
1776	478.2	1976	3	2	0	122
1777	478.2	1976	3	3	0	43
1778	478.2	1976	3	4	0	37
1779	478.2	1976	3	5	0	181
1780	478.2	1976	3	6	0	77
1781	478.2	1976	3	7	0	139
1782	478.2	1976	3	8	0	53
1783	478.2	1976	3	9	0	21
1784	478.2	1976	3	10	0	176
1785	478.2	1976	4	1	19	144
1786	478.2	1976	4	2	19	202
1787	478.2	1976	4	3	19	21
1788	478.2	1976	4	4	19	26
1789	478.2	1976	4	6	19	47
1790	478.2	1976	4	7	19	32
1791	478.2	1976	4	8	19	87
1792	478.2	1976	4	9	19	32
1793	478.2	1976	4	10	19	69
1794	478.2	1977	1	1	19	19
1795	478.2	1977	1	3	19	18
1796	478.2	1977	1	5	19	54
1797	478.2	1977	1	7	19	54
1798	478.2	1977	1	8	19	91
1799	478.2	1977	1	9	19	36
1800	478.2	1977	1	10	19	73
1801	478.2	1977	2	1	19	490
1802	478.2	1977	2	2	19	182
1803	478.2	1977	2	3	19	381
1804	478.2	1977	2	5	19	236
1805	478.2	1977	2	6	19	145
1806	478.2	1977	2	7	19	235
1807	478.2	1977	2	8	19	490
1808	478.2	1977	2	9	19	145
1809	478.2	1977	2	10	19	163
1810	478.2	1977	3	1	21	73
1811	478.2	1977	3	2	15	18
1812	478.2	1977	3	3	15	199
1813	478.2	1977	3	4	15	254
1814	478.2	1977	3	5	15	181
1815	478.2	1977	3	7	15	36
1816	478.2	1977	3	8	15	218
1817	478.2	1977	3	9	15	109
1818	478.2	1977	3	10	15	54
1819	478.2	1977	4	1	15	91
1820	478.2	1977	4	3	15	73
1821	478.2	1977	4	4	15	72
1822	478.2	1977	4	5	15	73
1823	478.2	1977	4	6	15	145

MAY 1971 - NOVEMBER 1972

TAXON=OLIGOCHAETA

ORS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
1324	478.2	1977	4	7	15	127
1325	478.2	1977	4	8	15	100
1326	478.2	1977	4	9	15	164
1327	478.2	1977	4	10	15	90
1328	478.2	1978	1	1	19	145
1329	478.2	1978	1	4	19	90
1330	478.2	1978	1	5	19	54
1331	478.2	1978	1	6	19	36
1332	478.2	1978	1	7	19	54
1333	478.2	1978	1	8	19	72
1334	478.2	1978	1	9	19	18
1335	478.2	1978	1	10	19	54
1336	478.2	1978	2	1	19	236
1337	478.2	1978	2	2	19	182
1338	478.2	1978	2	3	19	36
1339	478.2	1978	2	4	19	18
1340	478.2	1978	2	5	19	91
1341	478.2	1978	2	6	19	217
1342	478.2	1978	2	7	19	91
1343	478.2	1978	2	8	19	127
1344	478.2	1978	2	10	19	562
1345	478.2	1978	3	1	19	109
1346	478.2	1978	3	2	19	91
1347	478.2	1978	3	3	19	54
1348	478.2	1978	3	4	19	146
1349	478.2	1978	3	5	19	90
1350	478.2	1978	3	6	19	73
1351	478.2	1978	3	7	19	72
1352	478.2	1978	3	8	19	18
1353	478.2	1978	3	9	19	109
1354	478.2	1978	3	10	19	18
1355	478.2	1978	4	2	19	109
1356	478.2	1978	4	3	19	272
1357	478.2	1978	4	4	19	91
1358	478.2	1978	4	5	19	127
1359	478.2	1978	4	6	19	91
1360	478.2	1978	4	7	19	163
1361	478.2	1978	4	8	19	73
1362	478.2	1978	4	9	19	254
1363	478.2	1978	4	10	19	326
1364	478.2	1980	4	1	A0	108
1365	478.2	1980	4	2	A0	36
1366	478.2	1980	4	3	A0	18
1367	478.2	1980	4	4	A0	18
1368	478.2	1980	4	5	A0	36
1369	478.2	1980	4	6	A0	54
1370	478.2	1980	4	7	A0	36
1371	478.2	1980	4	8	A0	18
1372	478.2	1981	1	1	A0	54
1373	478.2	1981	1	2	A0	90
1374	478.2	1981	1	3	A0	18
1375	478.2	1981	1	4	A0	72
1376	478.2	1981	1	5	A0	126
1377	478.2	1981	1	6	A0	54

MAY 1971 - NOVEMBER 1982

TAXON=OLIGOCHAETA

OBS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
1878	475.2	1981	1	7	AO	36
1879	476.2	1981	1	6	AO	36
1880	478.2	1981	1	5	AO	90
1881	477.2	1981	1	10	AO	54
1882	479.2	1981	2	1	AO	289
1883	479.2	1981	2	2	AO	162
1884	478.2	1981	2	3	AO	126
1885	475.2	1981	2	4	AO	90
1886	478.2	1981	2	5	AO	235
1887	478.2	1981	2	6	AO	108
1888	478.2	1981	2	7	AO	144
1889	475.2	1981	2	8	AO	198
1890	477.2	1981	2	9	AO	90
1891	478.2	1981	2	10	AO	160
1892	478.2	1981	4	1	AO	72
1893	478.2	1981	4	2	AO	126
1894	473.2	1981	4	3	AO	36
1895	478.2	1981	4	4	AO	217
1896	473.2	1981	4	5	AO	235
1897	478.2	1981	4	6	AO	36
1898	473.2	1981	4	7	AO	108
1899	475.2	1981	4	8	AO	72
1900	478.2	1981	4	10	AO	108
1901	475.2	1982	1	1	AO	54
1902	478.2	1982	1	2	AO	36
1903	477.2	1982	1	3	AO	126
1904	479.2	1982	1	4	AO	199
1905	478.2	1982	1	5	AO	18
1906	478.2	1982	1	6	AO	199
1907	478.2	1982	1	7	AO	235
1908	478.2	1982	1	8	AO	176
1909	478.2	1982	1	9	AO	54
1910	478.2	1982	1	10	AO	253
1911	478.2	1982	2	1	AO	235
1912	478.2	1982	2	2	AO	217
1913	478.2	1982	2	3	AO	36
1914	478.2	1982	2	4	AO	271
1915	478.2	1982	2	5	AO	416
1916	478.2	1982	2	6	AO	362
1917	478.2	1982	2	7	AO	271
1918	476.2	1982	2	8	AO	90
1919	478.2	1982	2	9	AO	326
1920	477.2	1982	2	10	AO	616
1921	478.2	1982	3	1	AO	72
1922	478.2	1982	3	2	AO	54
1923	478.2	1982	3	3	AO	72
1924	478.2	1982	3	4	AO	36
1925	478.2	1982	3	5	AO	36
1926	478.2	1982	3	6	AO	54
1927	478.2	1982	3	7	AO	54
1928	477.2	1982	3	8	AO	126
1929	478.2	1982	3	9	AO	18
1930	478.2	1982	3	10	AO	36
1931	478.2	1982	4	4	AO	36

MAY 1971 - NOVEMBER 1982

TAXON=OLIGOCHAETA

OBS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
1932	473.2	1932	4	5	A0	19
1933	473.2	1932	4	7	A0	36
1934	473.2	1932	4	4	A0	19
1935	473.2	1932	4	10	A0	72
1936	483.4	1971	3	1	71	43
1937	483.4	1971	3	2	71	22
1938	483.4	1971	3	3	71	32
1939	483.4	1971	4	1	71	22
1940	483.4	1972	2	1		144
1941	483.4	1972	2	2		58
1942	483.4	1972	2	3		154
1943	483.4	1972	3	1	0	37
1944	483.4	1972	3	2	0	0
1945	483.4	1972	3	3	0	0
1946	483.4	1972	4	1	0	43
1947	483.4	1972	4	2	0	11
1948	483.4	1972	4	3	0	0
1949	483.4	1973	1	1	0	16
1950	483.4	1973	1	2	0	0
1951	483.4	1973	1	3	0	16
1952	483.4	1973	2	1	0	0
1953	483.4	1973	2	2	0	0
1954	483.4	1973	2	3	0	0
1955	483.4	1973	3	1	0	46
1956	483.4	1973	3	2	0	0
1957	483.4	1973	3	3	0	0
1958	483.4	1973	4	1	0	0
1959	483.4	1973	4	2	0	11
1960	483.4	1973	4	3	0	0
1961	483.4	1974	1	1	0	0
1962	483.4	1974	1	2	0	0
1963	483.4	1974	1	3	0	0
1964	483.4	1974	2	1		0
1965	483.4	1974	3	1	0	133
1966	483.4	1974	3	2	0	192
1967	483.4	1974	3	3	0	107
1968	483.4	1974	4	1	0	24
1969	483.4	1974	4	2	0	27
1970	483.4	1974	4	3	0	21
1971	483.4	1975	1	1		489
1972	483.4	1975	1	2		706
1973	483.4	1975	1	3		507
1974	483.4	1975	2	1	0	152
1975	483.4	1975	2	2	0	129
1976	483.4	1975	2	3	0	21
1977	483.4	1975	3	1	0	59
1978	483.4	1975	3	2	0	64
1979	483.4	1975	3	3	0	185
1980	483.4	1975	4	1		0
1981	483.4	1975	4	2		0
1982	483.4	1975	4	3		271
1983	483.4	1976	1	1	0	43
1984	483.4	1976	1	2	0	53
1985	483.4	1976	1	3	0	0

MAY 1971 - NOVEMBER 1942

TAXON=OLIGOCHAETA

ONS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
1986	483.4	1976	2	1	0	11
1987	483.4	1976	2	2	0	0
1988	483.4	1976	2	3	0	11
1989	483.4	1976	2	4	0	0
1990	483.4	1976	2	5	0	21
1991	483.4	1976	2	6	0	11
1992	483.4	1976	2	7	0	18
1993	483.4	1976	2	8	0	46
1994	483.4	1976	2	9	0	11
1995	483.4	1976	2	10	0	11
1996	483.4	1976	3	1	0	0
1997	483.4	1976	3	2	0	32
1998	483.4	1976	3	3	0	0
1999	483.4	1976	3	4	0	32
2000	483.4	1976	3	5	0	16
2001	483.4	1976	3	6	0	128
2002	483.4	1976	3	7	0	0
2003	483.4	1976	3	8	0	0
2004	483.4	1976	3	9	0	19
2005	483.4	1976	3	10	0	26
2006	483.4	1976	4	1	68	85
2007	483.4	1976	4	2	68	32
2008	483.4	1976	4	3	68	53
2009	483.4	1976	4	4	68	32
2010	483.4	1976	4	5	68	3
2011	483.4	1977	1	2	68	18
2012	483.4	1977	1	7	68	18
2013	483.4	1977	1	8	68	36
2014	483.4	1977	1	9	68	18
2015	483.4	1977	1	10	68	18
2016	483.4	1977	2	1	68	36
2017	483.4	1977	2	2	68	73
2018	483.4	1977	2	3	68	18
2019	483.4	1977	2	4	68	54
2020	483.4	1977	2	5	68	127
2021	483.4	1977	2	6	68	54
2022	483.4	1977	2	7	68	145
2023	483.4	1977	2	8	68	18
2024	483.4	1977	2	9	68	18
2025	483.4	1977	2	10	68	109
2026	483.4	1977	3	1	68	272
2027	483.4	1977	3	2	68	399
2028	483.4	1977	3	4	68	18
2029	483.4	1977	3	5	68	91
2030	483.4	1977	3	6	68	326
2031	483.4	1977	3	7	68	798
2032	483.4	1977	3	8	68	526
2033	483.4	1977	3	9	68	91
2034	483.4	1977	4	1	68	181
2035	483.4	1977	4	2	68	36
2036	483.4	1977	4	4	68	164
2037	483.4	1977	4	5	68	200
2038	483.4	1977	4	6	68	217
2039	483.4	1977	4	7	68	145

MAY 1971 - NOVEMBER 19-2

TAXONEOLISCHAETA

DBS	P1V_MILE	YEAR	QUARTER	REP_SUM	SAM_LOC	SUMM
2040	483.4	1977	4	2	65	54
2041	483.4	1977	4	2	68	36
2042	483.4	1977	4	10	68	127
2043	483.4	1977	1	1	68	36
2044	483.4	1977	1	3	68	36
2045	483.4	1978	1	4	68	18
2046	483.4	1978	1	5	68	18
2047	483.4	1978	1	6	68	18
2048	483.4	1979	1	7	68	18
2049	483.4	1979	1	7	68	18
2050	483.4	1979	1	7	68	54
2051	483.4	1979	1	10	68	54
2052	483.4	1979	2	1	68	36
2053	483.4	1979	2	3	68	72
2054	483.4	1979	2	4	68	18
2055	483.4	1979	2	6	68	18
2056	483.4	1979	2	7	68	18
2057	483.4	1979	2	9	68	36
2058	483.4	1979	3	1	68	36
2059	483.4	1979	3	3	68	54
2060	483.4	1979	3	5	68	36
2061	483.4	1979	3	6	68	36
2062	483.4	1979	3	6	68	36
2063	483.4	1979	3	10	68	73
2064	483.4	1979	4	1	68	54
2065	483.4	1979	4	2	68	54
2066	483.4	1979	4	3	68	163
2067	483.4	1979	4	4	68	36
2068	483.4	1979	4	5	68	36
2069	483.4	1979	4	6	68	18
2070	483.4	1979	4	9	68	18
2071	483.4	1980	4	1	AC	72
2072	483.4	1980	4	2	AC	18
2073	483.4	1980	4	3	AC	36
2074	483.4	1980	4	5	AC	54
2075	483.4	1980	4	7	AC	36
2076	483.4	1980	4	8	AC	54
2077	483.4	1980	4	9	AC	18
2078	483.4	1980	4	10	AC	36
2079	483.4	1981	1	1	AC	54
2080	483.4	1981	1	2	AC	90
2081	483.4	1981	1	3	AC	90
2082	483.4	1981	1	4	AC	72
2083	483.4	1981	1	5	AC	72
2084	483.4	1981	1	6	AC	72
2085	483.4	1981	1	7	AC	54
2086	483.4	1981	1	8	AC	54
2087	483.4	1981	1	9	AC	54
2088	483.4	1981	1	10	AC	36
2089	483.4	1981	2	1	AC	72
2090	483.4	1981	2	2	AC	126
2091	483.4	1981	2	3	AC	145
2092	483.4	1981	2	4	AC	54
2093	483.4	1981	2	5	AC	90

MAY 1971 - NOVEMBER 1982

TAXON=OLIGOCHAETA

OBS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
2094	483.4	1981	2	6	AC	163
2095	483.4	1981	2	7	AC	36
2096	483.4	1981	2	8	AC	36
2097	483.4	1981	2	9	AC	54
2098	483.4	1981	2	10	AC	19
2099	483.4	1981	3	1	AC	54
2100	483.4	1981	3	2	AC	145
2101	483.4	1981	3	3	AC	36
2102	483.4	1981	3	4	AC	19
2103	483.4	1981	3	5	AC	36
2104	483.4	1981	3	6	AC	54
2105	483.4	1981	3	7	AC	36
2106	483.4	1981	3	8	AC	18
2107	483.4	1981	3	9	AC	36
2108	483.4	1981	3	10	AC	72
2109	483.4	1981	4	1	AC	72
2110	483.4	1981	4	2	AC	72
2111	483.4	1981	4	3	AC	36
2112	483.4	1981	4	4	AC	36
2113	483.4	1981	4	5	AC	19
2114	483.4	1981	4	7	AC	72
2115	483.4	1981	4	8	AC	50
2116	483.4	1981	4	9	AC	72
2117	483.4	1981	4	10	AC	54
2118	483.4	1982	1	1	AC	361
2119	483.4	1982	1	2	AC	344
2120	483.4	1982	1	3	AC	271
2121	483.4	1982	1	4	AC	108
2122	483.4	1982	1	5	AC	289
2123	483.4	1982	1	6	AC	489
2124	483.4	1982	1	7	AC	325
2125	483.4	1982	1	8	AC	108
2126	483.4	1982	1	9	AC	144
2127	483.4	1982	1	10	AC	72
2128	483.4	1982	2	1	AC	144
2129	483.4	1982	2	2	AC	108
2130	483.4	1982	2	3	AC	162
2131	483.4	1982	2	4	AC	36
2132	483.4	1982	2	5	AC	54
2133	483.4	1982	2	6	AC	234
2134	483.4	1982	2	7	AC	234
2135	483.4	1982	2	8	AC	162
2136	483.4	1982	2	9	AC	199
2137	483.4	1982	2	10	AC	180
2138	483.4	1982	3	1	AC	36
2139	483.4	1982	3	5	AC	19
2140	483.4	1982	3	10	AC	18
2141	483.4	1982	4	1		0
2142	490.5	1971	3	1	78	11
2143	490.5	1971	3	2	78	19
2144	490.5	1971	4	1	78	0
2145	490.5	1972	2	1		0
2146	490.5	1972	2	2		37
2147	490.5	1972	2	3		74

MAY 1971 - NOVEMBER 1972

TAXONOLIGOSCHALTA

OPS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOS	SUMM
2148	490.5	1972	3	1	0	0
2149	490.5	1972	3	2	0	48
2150	490.5	1972	3	3	0	85
2151	490.5	1972	4	1	0	54
2152	490.5	1972	4	2	0	0
2153	490.5	1972	4	3	0	79
2154	490.5	1972	1	1	0	67
2155	490.5	1973	1	2	0	13
2156	490.5	1973	1	3	0	77
2157	490.5	1973	2	1	0	21
2158	490.5	1973	2	2	0	0
2159	490.5	1973	2	3	0	0
2160	490.5	1973	3	1	0	32
2161	490.5	1973	3	2	0	43
2162	490.5	1973	3	3	0	60
2163	490.5	1973	4	1	0	21
2164	490.5	1973	4	2	0	0
2165	490.5	1973	4	3	0	0
2166	490.5	1974	1	1	0	64
2167	490.5	1974	1	2	0	21
2168	490.5	1974	1	3	0	86
2169	490.5	1974	2	1	0	19
2170	490.5	1974	2	2	0	49
2171	490.5	1974	2	3	0	10
2172	490.5	1974	3	1	0	96
2173	490.5	1974	3	2	0	0
2174	490.5	1974	3	3	0	10
2175	490.5	1974	4	1	0	47
2176	490.5	1974	4	2	0	0
2177	490.5	1974	4	3	0	32
2178	490.5	1975	1	1	0	394
2179	490.5	1975	1	2	0	100
2180	490.5	1975	1	3	0	181
2181	490.5	1975	2	1	0	187
2182	490.5	1975	2	2	0	43
2183	490.5	1975	2	3	0	136
2184	490.5	1975	3	1	0	75
2185	490.5	1975	3	2	0	0
2186	490.5	1975	3	3	0	53
2187	490.5	1975	4	1	0	1177
2188	490.5	1975	4	2	0	325
2189	490.5	1975	4	3	0	743
2190	490.5	1976	1	1	0	0
2191	490.5	1976	1	2	0	43
2192	490.5	1976	1	3	0	0
2193	490.5	1976	2	1	0	79
2194	490.5	1976	2	2	0	21
2195	490.5	1976	2	3	0	51
2196	490.5	1976	2	4	0	103
2197	490.5	1976	2	5	0	11
2198	490.5	1976	2	6	0	94
2199	490.5	1976	2	7	0	53
2200	490.5	1976	2	8	0	142
2201	490.5	1976	2	9	0	94

MAY 1971 - NOVEMBER 1982

TAXON=OLIGOCHAETA

OBS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
2202	490.5	1976	2	10	0	80
2203	490.5	1976	3	1	0	49
2204	490.5	1976	3	2	0	27
2205	490.5	1976	3	3	0	48
2206	490.5	1976	3	4	0	21
2207	490.5	1976	3	5	0	37
2208	490.5	1976	3	6	0	16
2209	490.5	1976	3	7	0	26
2210	490.5	1976	3	8	0	43
2211	490.5	1976	3	9	0	48
2212	490.5	1976	3	10	0	21
2213	490.5	1976	4	1	19	20
2214	490.5	1976	4	2	19	26
2215	490.5	1976	4	3	19	16
2216	490.5	1976	4	6	19	24
2217	490.5	1976	4	7	19	6
2218	490.5	1976	4	8	19	32
2219	490.5	1976	4	9	19	6
2220	490.5	1977	1	1	19	18
2221	490.5	1977	1	6	19	18
2222	490.5	1977	1	9	19	18
2223	490.5	1977	2	1	19	145
2224	490.5	1977	2	2	19	91
2225	490.5	1977	2	3	19	36
2226	490.5	1977	2	4	19	73
2227	490.5	1977	2	5	19	73
2228	490.5	1977	2	6	19	109
2229	490.5	1977	2	7	19	73
2230	490.5	1977	2	8	19	91
2231	490.5	1977	2	9	19	18
2232	490.5	1977	2	10	19	72
2233	490.5	1977	3	1	19	18
2234	490.5	1977	3	2	19	109
2235	490.5	1977	3	3	19	91
2236	490.5	1977	3	4	19	18
2237	490.5	1977	3	5	19	91
2238	490.5	1977	3	6	19	54
2239	490.5	1977	3	8	19	54
2240	490.5	1977	3	9	19	18
2241	490.5	1977	3	10	19	36
2242	490.5	1977	4	1	19	54
2243	490.5	1977	4	2	19	18
2244	490.5	1977	4	3	19	36
2245	490.5	1977	4	4	19	109
2246	490.5	1977	4	5	19	54
2247	490.5	1977	4	6	19	163
2248	490.5	1977	4	7	19	73
2249	490.5	1977	4	8	19	109
2250	490.5	1977	4	9	19	18
2251	490.5	1977	4	10	19	73
2252	490.5	1978	1	1	19	18
2253	490.5	1978	1	2	19	18
2254	490.5	1978	1	4	19	18
2255	490.5	1978	1	5	19	18

MAY 1971 - NOVEMBER 1982

TAXON=OLIGOCHAETA

ORS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
2256	490.5	1978	1	6	19	109
2257	490.5	1978	1	7	19	54
2258	490.5	1978	1	8	19	54
2259	490.5	1978	1	9	19	90
2260	490.5	1978	1	10	19	18
2261	490.5	1978	2	1	19	90
2262	490.5	1978	2	2	19	200
2263	490.5	1978	2	3	19	73
2264	490.5	1978	2	4	19	90
2265	490.5	1978	2	5	19	91
2266	490.5	1978	2	6	19	91
2267	490.5	1978	2	7	19	145
2268	490.5	1978	2	8	19	18
2269	490.5	1978	2	9	19	18
2270	490.5	1978	2	10	19	54
2271	490.5	1978	3	2	19	90
2272	490.5	1978	3	3	19	127
2273	490.5	1978	3	4	19	54
2274	490.5	1978	3	5	19	109
2275	490.5	1978	3	6	19	90
2276	490.5	1978	3	7	19	91
2277	490.5	1978	3	8	19	72
2278	490.5	1978	3	9	19	127
2279	490.5	1978	3	10	19	72
2280	490.5	1978	4	1	19	72
2281	490.5	1978	4	2	19	18
2282	490.5	1978	4	3	19	36
2283	490.5	1978	4	6	19	18
2284	490.5	1978	4	7	19	72
2285	490.5	1978	4	8	19	36
2286	490.5	1978	4	9	19	54
2287	490.5	1978	4	10	19	18
2288	490.5	1980	4	1	AQ	36
2289	490.5	1980	4	2	AQ	19
2290	490.5	1980	4	3	AQ	54
2291	490.5	1980	4	6	AQ	18
2292	490.5	1980	4	7	AQ	18
2293	490.5	1980	4	8	AQ	18
2294	490.5	1980	4	9	AQ	36
2295	490.5	1981	1	1	AQ	54
2296	490.5	1981	1	2	AQ	54
2297	490.5	1981	1	3	AQ	72
2298	490.5	1981	1	4	AQ	126
2299	490.5	1981	1	5	AQ	72
2300	490.5	1981	1	6	AQ	36
2301	490.5	1981	1	7	AQ	72
2302	490.5	1981	1	8	AQ	54
2303	490.5	1981	1	9	AQ	54
2304	490.5	1981	1	10	AQ	72
2305	490.5	1981	2	1	AQ	72
2306	490.5	1981	2	2	AQ	72
2307	490.5	1981	2	3	AQ	90
2308	490.5	1981	2	4	AQ	72
2309	490.5	1981	2	5	AQ	90

MAY 1971 - NOVEMBER 1982

TAXON=OLIGOCHAETA

ORS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
2310	490.5	1981	2	6	AQ	90
2311	490.5	1981	2	7	AQ	72
2312	490.5	1981	2	8	AQ	145
2313	490.5	1981	2	9	AQ	36
2314	490.5	1981	2	10	AQ	90
2315	490.5	1981	3	1	AQ	90
2316	490.5	1981	3	2	AQ	108
2317	490.5	1981	3	3	AQ	90
2318	490.5	1981	3	4	AQ	217
2319	490.5	1981	3	5	AQ	90
2320	490.5	1981	3	6	AQ	144
2321	490.5	1981	3	7	AQ	108
2322	490.5	1981	3	8	AQ	90
2323	490.5	1981	3	9	AQ	108
2324	490.5	1981	3	10	AQ	108
2325	490.5	1981	4	1	AQ	18
2326	490.5	1981	4	2	AQ	36
2327	490.5	1981	4	3	AQ	54
2328	490.5	1981	4	5	AQ	72
2329	490.5	1981	4	7	AQ	36
2330	490.5	1981	4	8	AQ	36
2331	490.5	1981	4	9	AQ	36
2332	490.5	1982	1	1	AQ	18
2333	490.5	1982	1	2	AQ	36
2334	490.5	1982	1	3	AQ	18
2335	490.5	1982	1	4	AQ	18
2336	490.5	1982	1	5	AQ	72
2337	490.5	1982	1	6	AQ	108
2338	490.5	1982	1	7	AQ	90
2339	490.5	1982	1	8	AQ	54
2340	490.5	1982	1	9	AQ	70
2341	490.5	1982	1	10	AQ	181
2342	490.5	1982	2	1	AQ	36
2343	490.5	1982	2	2	AQ	36
2344	490.5	1982	2	4	AQ	18
2345	490.5	1982	2	5	AQ	72
2346	490.5	1982	2	6	AQ	54
2347	490.5	1982	2	7	AQ	108
2348	490.5	1982	2	8	AQ	36
2349	490.5	1982	2	9	AQ	18
2350	490.5	1982	2	10	AQ	72
2351	490.5	1982	3	1	AQ	108
2352	490.5	1982	3	2	AQ	90
2353	490.5	1982	3	3	AQ	145
2354	490.5	1982	3	4	AQ	181
2355	490.5	1982	3	5	AQ	108
2356	490.5	1982	3	6	AQ	36
2357	490.5	1982	3	7	AQ	126
2358	490.5	1982	3	8	AQ	126
2359	490.5	1982	3	9	AQ	108
2360	490.5	1982	3	10	AQ	54
2361	490.5	1982	4	2	AQ	18
2362	490.5	1982	4	3	AQ	36
2363	490.5	1982	4	5	AQ	36

MAY 1971 - NOVEMBER 1982

TAXO/EGLISCHAETA

OPS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
2364	490.5	1982	4	6	AQ	109
2365	490.5	1982	4	7	AQ	18
2366	490.5	1982	4	8	AQ	36
2367	490.5	1982	4	9	AQ	18
2368	490.5	1982	4	10	AQ	18

APPENDIX O

CORBICULA MANILENSES (NO./M²) COLLECTED IN THE VICINITY OF
SEQUOYAH NUCLEAR PLANT, CHICKAMAUGA RESERVOIR, DURING
PREOPERATIONAL AND OPERATIONAL MONITORING, 1971 THROUGH 1982

Appendix O. Corbicula manilensis (No./m²) Collected in the Vicinity of Sequoyah Nuclear Plant,
Chickamauga Reservoir, During Preoperational and Operational Monitoring, 1971
Through 1982

----- TAXON=CORBICULA -----

OHS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUM
653	478.2	1971	3	1	82	54
654	479.2	1971	3	2	82	215
655	478.2	1971	3	3	82	75
656	474.2	1971	4	1	82	204
657	472.2	1971	4	2	82	103
658	472.2	1971	4	3	82	97
659	476.2	1972	1	1		0
660	473.2	1972	1	2		0
661	473.2	1972	1	3		0
662	473.2	1972	2	1		0
663	475.2	1972	2	2		0
664	473.2	1972	2	3		0
665	479.2	1972	3	1	0	0
666	478.2	1972	3	2	0	0
667	474.2	1972	3	3	0	73
668	472.2	1972	4	1	0	0
669	478.2	1972	4	2	0	36
670	473.2	1972	4	3	0	0
671	478.2	1973	1	1	0	0
672	479.2	1973	1	2	0	18
673	478.2	1973	1	3	0	18
674	478.2	1973	2	1	0	36
675	479.2	1973	2	2	0	91
676	478.2	1973	2	3	0	0
677	478.2	1973	3	1		0
678	478.2	1973	4	1	0	0
679	478.2	1973	4	2	0	0
680	478.2	1973	4	3	0	0
681	478.2	1974	1	1	0	18
682	478.2	1974	1	2	0	36
683	479.2	1974	1	3	0	0
684	478.2	1974	2	1	0	344
685	478.2	1974	2	2	0	181
686	478.2	1974	2	3	0	308
687	479.2	1974	3	1		0
688	478.2	1974	4	1	0	18
689	478.2	1974	4	2	0	18
690	478.2	1974	4	3	0	0
691	479.2	1975	1	1		18
692	478.2	1975	1	2		0
693	478.2	1975	1	3		36
694	478.2	1975	2	1	0	0
695	478.2	1975	2	2	0	18
696	479.2	1975	2	3	0	18

MAY 1971 - NOVEMBER 1972

TAXON=CORBICULA

OBS	PIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
697	478.2	1975	3	1	0	0
698	478.2	1975	3	2	0	0
699	478.2	1975	3	3	0	0
700	478.2	1975	4	1	0	0
701	478.2	1976	1	1	0	0
702	478.2	1976	2	1	0	109
703	478.2	1976	2	2	0	127
704	478.2	1976	2	3	0	254
705	478.2	1976	2	4	0	236
706	478.2	1976	2	5	0	199
707	478.2	1976	2	6	0	363
708	478.2	1976	2	7	0	490
709	478.2	1976	2	8	0	218
710	478.2	1976	2	9	0	145
711	478.2	1976	2	10	0	199
712	478.2	1976	3	1	0	236
713	478.2	1976	3	2	0	363
714	478.2	1976	3	3	0	199
715	478.2	1976	3	4	0	236
716	478.2	1976	3	5	0	199
717	478.2	1976	3	6	0	199
718	478.2	1976	3	7	0	344
719	478.2	1976	3	8	0	361
720	478.2	1976	3	9	0	254
721	478.2	1976	3	10	0	435
722	478.2	1976	4	1	19	272
723	478.2	1976	4	2	19	218
724	478.2	1976	4	3	19	344
725	478.2	1976	4	4	19	326
726	478.2	1976	4	5	19	109
727	478.2	1976	4	6	19	218
728	478.2	1976	4	7	19	272
729	478.2	1976	4	8	19	218
730	478.2	1976	4	9	19	199
731	478.2	1976	4	10	19	181
732	478.2	1977	1	1	19	145
733	478.2	1977	1	2	19	163
734	478.2	1977	1	3	19	326
735	478.2	1977	1	4	19	272
736	478.2	1977	1	5	19	163
737	478.2	1977	1	6	19	218
738	478.2	1977	1	7	19	399
739	478.2	1977	1	8	19	18
740	478.2	1977	1	10	19	453
741	478.2	1977	2	2	19	18
742	478.2	1977	2	5	19	18
743	478.2	1977	2	6	19	73
744	478.2	1977	2	7	19	18
745	478.2	1977	2	9	19	36
746	478.2	1977	3	2	15	18
747	478.2	1977	3	10	15	73
748	478.2	1977	4	2	15	18
749	478.2	1977	4	4	15	18
750	478.2	1977	4	5	15	18

MAY 1971 - NOVEMBER 1992

TAXON=CORPICULA

ORS	RIV_MILF	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
751	478.2	1971	1	2	19	100
752	474.2	1971	1	5	19	54
753	478.2	1971	1	6	19	145
754	478.2	1971	1	7	19	145
755	478.2	1971	1	8	19	54
756	478.2	1971	1	9	19	199
757	478.2	1971	1	10	19	199
758	478.2	1971	2	10	19	19
759	478.2	1971	3	3	19	18
760	478.2	1971	3	6	19	18
761	478.2	1971	3	7	19	18
762	478.2	1971	3	8	19	36
763	478.2	1971	3	9	19	19
764	478.2	1971	3	10	19	18
765	478.2	1971	4	1	19	0
766	478.2	1980	4	1	AO	181
767	478.2	1980	4	2	AO	181
768	478.2	1980	4	3	AO	181
769	478.2	1980	4	4	AO	90
770	478.2	1980	4	5	AO	126
771	478.2	1980	4	6	AO	145
772	478.2	1980	4	7	AO	72
773	478.2	1980	4	8	AO	54
774	478.2	1980	4	9	AO	126
775	478.2	1980	4	10	AO	145
776	478.2	1982	1	1	AO	36
777	478.2	1982	1	2	AO	145
778	478.2	1982	1	3	AO	108
779	478.2	1982	1	4	AO	126
780	478.2	1982	1	5	AO	54
781	478.2	1982	1	6	AO	108
782	478.2	1982	1	7	AO	217
783	478.2	1982	1	8	AO	54
784	478.2	1982	1	9	AO	36
785	478.2	1982	1	10	AO	54
786	478.2	1982	2	1	AO	108
787	478.2	1982	2	2	AO	90
788	478.2	1982	2	4	AO	108
789	478.2	1982	2	5	AO	54
790	478.2	1982	2	6	AO	54
791	478.2	1982	2	7	AO	72
792	478.2	1982	2	8	AO	108
793	478.2	1982	2	10	AO	163
794	478.2	1982	3	1	AO	217
795	478.2	1982	3	3	AO	163
796	478.2	1982	3	4	AO	145
797	478.2	1982	3	5	AO	72
798	478.2	1982	3	6	AO	72
799	478.2	1982	3	7	AO	126
800	478.2	1982	3	8	AO	108
801	478.2	1982	3	10	AO	90
802	478.2	1982	4	1	AO	72
803	478.2	1982	4	2	AO	108
804	478.2	1982	4	3	AO	54

MAY 1971 - NOVEMBER 1982

TAXON=COPRICULA

OBS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
805	478.2	1982	4	4	A0	72
806	478.2	1982	4	5	A0	163
807	478.2	1982	4	6	A0	72
808	478.2	1982	4	7	A0	90
809	478.2	1982	4	8	A0	54
810	478.2	1982	4	9	A0	108
811	478.2	1982	4	10	A0	72
812	483.4	1971	3	1	71	194
813	483.4	1971	3	2	71	366
814	483.4	1971	3	3	71	110
815	483.4	1971	4	1	71	151
816	483.4	1971	4	2	71	65
817	483.4	1971	4	3	71	22
818	483.4	1972	1	1		134
819	483.4	1972	1	2		0
820	483.4	1972	1	3		58
821	483.4	1972	2	1		36
822	483.4	1972	2	2		0
823	483.4	1972	2	3		36
824	483.4	1972	3	1	0	0
825	483.4	1972	3	2	0	18
826	483.4	1972	3	3	0	36
827	483.4	1972	4	1	0	18
828	483.4	1972	4	2	0	109
829	483.4	1972	4	3	0	18
830	483.4	1973	1	1	0	0
831	483.4	1973	1	2	0	0
832	483.4	1973	1	3	0	0
833	483.4	1973	2	1		0
834	483.4	1973	3	1	0	0
835	483.4	1973	3	2	0	145
836	483.4	1973	3	3	0	18
837	483.4	1973	4	1	0	18
838	483.4	1973	4	2	0	91
839	483.4	1973	4	3	0	18
840	483.4	1974	1	1	0	54
841	483.4	1974	1	2	0	218
842	483.4	1974	1	3	0	199
843	483.4	1974	2	1	0	0
844	483.4	1974	2	2	0	54
845	483.4	1974	2	3	0	0
846	483.4	1974	3	1	0	54
847	483.4	1974	3	2	0	91
848	483.4	1974	3	3	0	109
849	483.4	1974	4	1	0	254
850	483.4	1974	4	2	0	127
851	483.4	1974	4	3	0	109
852	483.4	1975	1	1		90
853	483.4	1975	1	2		145
854	483.4	1975	1	3		181
855	483.4	1975	2	1	0	326
856	483.4	1975	2	2	0	218
857	483.4	1975	2	3	0	109
858	483.4	1975	3	1	0	145

MAY 1971 - NOVEMBER 1992

TAXON=CORPICOLA

OPS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
859	483.4	1975	3	2	0	199
860	483.4	1975	3	3	0	36
861	483.4	1975	4	1		326
862	483.4	1975	4	2		145
863	483.4	1975	4	3		199
864	483.4	1975	1	1	0	91
865	483.4	1975	1	2	0	73
866	483.4	1976	1	3	0	18
867	483.4	1976	2	1	0	36
868	483.4	1976	2	2	0	127
869	483.4	1976	2	3	0	0
870	483.4	1976	2	4	0	145
871	483.4	1976	2	5	0	73
872	483.4	1976	2	6	0	91
873	483.4	1976	2	7	0	36
874	483.4	1976	2	8	0	163
875	483.4	1976	2	9	0	163
876	483.4	1976	2	10	0	109
877	483.4	1976	3	1	0	36
878	483.4	1976	3	2	0	18
879	483.4	1976	3	3	0	0
880	483.4	1976	3	4	0	145
881	483.4	1976	3	5	0	199
882	483.4	1976	3	6	0	36
883	483.4	1976	3	7	0	344
884	483.4	1976	3	8	0	36
885	483.4	1976	3	9	0	181
886	483.4	1976	3	10	0	73
887	483.4	1976	4	1	68	145
888	483.4	1976	4	2	68	18
889	483.4	1976	4	3	68	54
890	483.4	1976	4	4	68	18
891	483.4	1976	4	5	68	127
892	483.4	1976	4	6	68	54
893	483.4	1976	4	7	68	73
894	483.4	1977	1	1	68	36
895	483.4	1977	1	2	68	236
896	483.4	1977	1	3	68	18
897	483.4	1977	1	4	68	1251
898	483.4	1977	1	5	68	54
899	483.4	1977	1	6	68	18
900	483.4	1977	1	7	68	127
901	483.4	1977	1	8	68	290
902	483.4	1977	2	1	68	236
903	483.4	1977	2	2	68	73
904	483.4	1977	2	3	68	54
905	483.4	1977	2	4	68	73
906	483.4	1977	2	5	68	181
907	483.4	1977	2	6	68	54
908	483.4	1977	2	7	68	91
909	483.4	1977	2	8	68	163
910	483.4	1977	3	1	68	73
911	483.4	1977	3	2	68	36
912	483.4	1977	3	3	68	73

MAY 1971 - NOVEMBER 1982

TAXON=CORRICULA

QRS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
913	483.4	1977	3	6	68	163
914	483.4	1977	3	7	68	145
915	483.4	1977	3	8	68	191
916	483.4	1977	3	9	68	363
917	483.4	1977	3	10	68	145
918	483.4	1977	4	1	68	18
919	483.4	1977	4	2	68	10
920	483.4	1977	4	4	68	127
921	483.4	1977	4	5	68	254
922	483.4	1977	4	6	68	91
923	483.4	1977	4	7	68	236
924	483.4	1977	4	8	68	145
925	483.4	1977	4	9	68	127
926	483.4	1977	4	10	68	91
927	483.4	1978	1	3	68	145
928	483.4	1978	1	5	68	590
929	483.4	1978	2	1	68	18
930	483.4	1978	2	2	68	18
931	483.4	1978	2	3	68	91
932	483.4	1978	2	4	68	54
933	483.4	1978	2	5	68	218
934	483.4	1978	2	6	68	36
935	483.4	1978	2	7	68	91
936	483.4	1978	2	8	68	36
937	483.4	1978	2	9	68	18
938	483.4	1978	2	10	68	18
939	483.4	1978	3	1	68	453
940	483.4	1978	3	3	68	272
941	483.4	1978	3	6	68	73
942	483.4	1978	3	8	68	18
943	483.4	1978	3	9	68	73
944	483.4	1978	4	5	68	36
945	483.4	1980	4	1	AC	217
946	483.4	1980	4	2	AC	18
947	483.4	1980	4	3	AC	161
948	483.4	1980	4	4	AC	36
949	483.4	1980	4	5	AC	54
950	483.4	1980	4	7	AC	18
951	483.4	1980	4	8	AC	90
952	483.4	1980	4	9	AC	36
953	483.4	1980	4	10	AC	54
954	483.4	1982	1	1	AC	308
955	483.4	1982	1	2	AC	380
956	483.4	1982	1	3	AC	761
957	483.4	1982	1	4	AC	72
958	483.4	1982	1	5	AC	163
959	483.4	1982	1	6	AC	1297
960	483.4	1982	1	7	AC	670
961	483.4	1982	1	8	AC	145
962	483.4	1982	1	9	AC	344
963	483.4	1982	1	10	AC	54
964	483.4	1982	2	1	AC	163
965	483.4	1982	2	2	AC	253
966	483.4	1982	2	3	AC	326

MAY 1971 - NOVEMBER 1982

TAXON=CGRRICULA

QHS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
967	483.4	1982	2	4	AC	362
968	483.4	1982	2	5	AC	344
969	483.4	1982	2	6	AC	362
970	483.4	1982	2	7	AC	302
971	483.4	1982	2	8	AC	126
972	483.4	1982	2	9	AC	271
973	483.4	1982	2	10	AC	362
974	483.4	1982	3	1	AC	18
975	483.4	1982	3	3	AC	36
976	483.4	1982	3	4	AC	18
977	483.4	1982	3	5	AC	108
978	483.4	1982	3	6	AC	36
979	483.4	1982	3	9	AC	18
980	483.4	1982	4	3	AC	18
981	483.4	1982	4	4	AC	36
982	483.4	1982	4	6	AC	18
983	483.4	1982	4	8	AC	18
984	483.4	1982	4	9	AC	36
985	483.4	1982	4	10	AC	36
986	490.5	1971	3	1	78	75
987	490.5	1971	3	2	78	54
988	490.5	1971	3	3	78	97
989	490.5	1971	4	2	78	11
990	490.5	1971	4	3	78	32
991	490.5	1972	1	1		0
992	490.5	1972	1	2		96
993	490.5	1972	1	3		0
994	490.5	1972	2	1		0
995	490.5	1972	2	2		0
996	490.5	1972	2	3		0
997	490.5	1972	3	1	0	36
998	490.5	1972	3	2	0	163
999	490.5	1972	3	3	0	435
1000	490.5	1972	4	1	0	54
1001	490.5	1972	4	2	0	109
1002	490.5	1972	4	3	0	0
1003	490.5	1973	1	1	0	109
1004	490.5	1973	1	2	0	0
1005	490.5	1973	1	3	0	127
1006	490.5	1973	2	1	0	73
1007	490.5	1973	2	2	0	54
1008	490.5	1973	2	3	0	54
1009	490.5	1973	3	1	0	36
1010	490.5	1973	3	2	0	73
1011	490.5	1973	3	3	0	73
1012	490.5	1973	4	1	0	54
1013	490.5	1973	4	2	0	0
1014	490.5	1974	4	3	0	54
1015	490.5	1974	1	1	0	109
1016	490.5	1974	1	2	0	73
1017	490.5	1974	1	3	0	54
1018	490.5	1974	2	1	0	54
1019	490.5	1974	2	2	0	145
1020	490.5	1974	2	3	0	109

MAY 1971 - NOVEMBER 1972

TAXON=CORDICULA

OBS	PIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
1021	490.5	1974	3	1	0	36
1022	490.5	1974	3	2	0	0
1023	490.5	1974	3	3	0	0
1024	490.5	1974	4	1	0	145
1025	490.5	1974	4	2	0	163
1026	490.5	1974	4	3	0	163
1027	490.5	1975	1	1		163
1028	490.5	1975	1	2		0
1029	490.5	1975	1	3		235
1030	490.5	1975	2	1	0	0
1031	490.5	1975	2	2	0	54
1032	490.5	1975	2	3	0	36
1033	490.5	1975	3	1	0	0
1034	490.5	1975	3	2	0	18
1035	490.5	1975	3	3	0	54
1036	490.5	1975	4	1		126
1037	490.5	1975	4	2		163
1038	490.5	1975	4	3		0
1039	490.5	1976	1	1	0	73
1040	490.5	1976	1	2	0	36
1041	490.5	1976	1	3	0	109
1042	490.5	1976	2	1	0	54
1043	490.5	1976	2	2	0	91
1044	490.5	1976	2	3	0	145
1045	490.5	1976	2	4	0	18
1046	490.5	1976	2	5	0	18
1047	490.5	1976	2	6	0	73
1048	490.5	1976	2	7	0	127
1049	490.5	1976	2	8	0	181
1050	490.5	1976	2	9	0	145
1051	490.5	1976	2	10	0	91
1052	490.5	1976	3	1	0	73
1053	490.5	1976	3	2	0	54
1054	490.5	1976	3	3	0	36
1055	490.5	1976	3	4	0	18
1056	490.5	1976	3	5	0	18
1057	490.5	1976	3	6	0	18
1058	490.5	1976	3	7	0	91
1059	490.5	1976	3	8	0	73
1060	490.5	1976	3	9	0	0
1061	490.5	1976	3	10	0	54
1062	490.5	1976	4	3	19	36
1063	490.5	1976	4	4	19	73
1064	490.5	1976	4	5	19	91
1065	490.5	1976	4	6	19	54
1066	490.5	1976	4	8	19	109
1067	490.5	1976	4	9	19	18
1068	490.5	1976	4	10	19	91
1069	490.5	1977	1	1	19	91
1070	490.5	1977	1	2	19	109
1071	490.5	1977	1	3	19	163
1072	490.5	1977	1	5	19	127
1073	490.5	1977	1	6	19	109
1074	490.5	1977	1	7	19	236

MAY 1971 - NOVEMBER 1982

TAXON=CORRICULA

CBS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
1075	490.5	1977	1	8	19	163
1076	490.5	1977	1	9	19	145
1077	490.5	1977	1	10	19	109
1078	490.5	1977	2	1		0
1079	490.5	1977	3	1	19	12
1080	490.5	1977	3	2	19	18
1081	490.5	1977	3	3	19	36
1082	490.5	1977	3	5	19	18
1083	490.5	1977	3	6	19	91
1084	490.5	1977	3	8	19	18
1085	490.5	1977	3	9	19	36
1086	490.5	1977	3	10	19	36
1087	490.5	1977	4	1	19	73
1088	490.5	1977	4	2	19	91
1089	490.5	1977	4	3	19	109
1090	490.5	1977	4	4	19	109
1091	490.5	1977	4	5	19	181
1092	490.5	1977	4	6	19	127
1093	490.5	1977	4	7	19	181
1094	490.5	1977	4	8	19	163
1095	490.5	1977	4	9	19	54
1096	490.5	1977	4	10	19	163
1097	490.5	1978	1	1	19	127
1098	490.5	1978	1	3	19	236
1099	490.5	1978	1	4	19	91
1100	490.5	1978	1	5	19	145
1101	490.5	1978	1	6	19	218
1102	490.5	1978	1	7	19	290
1103	490.5	1978	2	1	19	145
1104	490.5	1978	2	2	19	91
1105	490.5	1978	2	3	19	145
1106	490.5	1978	2	4	19	181
1107	490.5	1978	2	5	19	218
1108	490.5	1978	2	6	19	236
1109	490.5	1978	2	7	19	199
1110	490.5	1978	2	8	19	127
1111	490.5	1978	2	9	19	199
1112	490.5	1978	2	10	19	73
1113	490.5	1978	3	2	19	36
1114	490.5	1978	3	3	19	18
1115	490.5	1978	3	10	19	36
1116	490.5	1978	4	3	19	36
1117	490.5	1978	4	5	19	36
1118	490.5	1980	4	1	AQ	163
1119	490.5	1980	4	2	AQ	108
1120	490.5	1980	4	3	AQ	18
1121	490.5	1980	4	4	AQ	72
1122	490.5	1980	4	5	AQ	72
1123	490.5	1980	4	6	AQ	36
1124	490.5	1980	4	7	AQ	145
1125	490.5	1980	4	8	AQ	18
1126	490.5	1980	4	10	AQ	90
1127	490.5	1982	1	1	AQ	126
1128	490.5	1982	1	2	AQ	199

MAY 1971 - NOVEMBER 1972

TAXON=CORRICULA

ORS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
1129	490.5	1982	1	3	AQ	72
1130	490.5	1982	1	4	AQ	217
1131	490.5	1982	1	5	AQ	126
1132	490.5	1982	1	6	AQ	108
1133	490.5	1982	1	7	AQ	250
1134	490.5	1982	1	8	AC	181
1135	490.5	1982	1	9	AQ	217
1136	490.5	1982	1	10	AQ	217
1137	490.5	1982	2	1	AQ	108
1138	490.5	1982	2	2	AC	108
1139	490.5	1982	2	3	AQ	126
1140	490.5	1982	2	4	AC	18
1141	490.5	1982	2	5	AQ	54
1142	490.5	1982	2	6	AQ	54
1143	490.5	1982	2	7	AQ	36
1144	490.5	1982	2	8	AQ	36
1145	490.5	1982	2	10	AQ	72
1146	490.5	1982	3	1	AQ	18
1147	490.5	1982	4	1	AQ	72
1148	490.5	1982	4	2	AQ	108
1149	490.5	1982	4	3	AQ	163
1150	490.5	1982	4	4	AQ	72
1151	490.5	1982	4	5	AQ	163
1152	490.5	1982	4	6	AQ	163
1153	490.5	1982	4	7	AQ	72
1154	490.5	1982	4	8	AQ	108
1155	490.5	1982	4	9	AQ	18
1156	490.5	1982	4	10	AQ	126

APPENDIX P

TOTAL BENTHIC MACROINVERTEBRATES (NO./M²) COLLECTED IN THE
VICINITY OF SEQUOYAH NUCLEAR PLANT DURING PREOPERATIONAL
AND OPERATIONAL MONITORING 1971 THROUGH 1982

Appendix P. Total Macroinvertebrates (No./m²) Collected in the Vicinity of Sequoyah Nuclear Plant, Chickamauga Reservoir, During Preoperational and Operational Monitoring, 1971 Through 1982.

MAY 1971 - NOVEMBER 1982

TAXON=TOTAL

ORS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
1	478.2	1971	3	1	82	205
2	478.2	1971	3	2	82	446
3	478.2	1971	3	3	82	172
4	478.2	1971	4	1	82	687
5	478.2	1971	4	2	82	494
6	478.2	1971	4	3	82	689
7	478.2	1972	1	1		287
8	478.2	1972	1	2		269
9	478.2	1972	1	3		404
10	478.2	1972	2	1		191
11	478.2	1972	2	2		224
12	478.2	1972	2	3		133
13	478.2	1972	3	1	0	289
14	478.2	1972	3	2	0	109
15	478.2	1972	3	3	0	265
16	478.2	1972	4	1	0	1382
17	478.2	1972	4	2	0	526
18	478.2	1972	4	3	0	235
19	478.2	1973	1	1	0	1141
20	478.2	1973	1	2	0	1050
21	478.2	1973	1	3	0	1228
22	478.2	1973	2	1	0	109
23	478.2	1973	2	2	0	236
24	478.2	1973	2	3	0	163
25	478.2	1973	3	1	0	250
26	478.2	1973	3	2	0	125
27	478.2	1973	3	3	0	524
28	478.2	1973	4	1	0	1740
29	478.2	1973	4	2	0	889
30	478.2	1973	4	3	0	724
31	478.2	1974	1	1	0	1102
32	478.2	1974	1	2	0	555
33	478.2	1974	1	3	0	793
34	478.2	1974	2	1	0	425
35	478.2	1974	2	2	0	345
36	478.2	1974	2	3	0	396
37	478.2	1974	3	1	0	442
38	478.2	1974	3	2	0	377
39	478.2	1974	3	3	0	417
40	478.2	1974	4	1	0	1961
41	478.2	1974	4	2	0	1027
42	478.2	1974	4	3	0	1134
43	478.2	1975	1	1		1086
44	478.2	1975	1	2		542
45	478.2	1975	1	3		1503
46	478.2	1975	2	1	0	333
47	478.2	1975	2	2	0	311
48	478.2	1975	2	3	0	514
49	478.2	1975	3	1	0	132
50	478.2	1975	3	2	0	356
51	478.2	1975	3	3	0	464
52	478.2	1975	4	1		886
53	478.2	1975	4	2		667
54	478.2	1975	4	3		289

MAY 1971 - NOVEMBER 1982

TAXON=TOTAL

ONS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
55	478.2	1976	1	1	0	469
56	478.2	1976	1	2	0	1162
57	478.2	1976	1	3	0	729
58	478.2	1976	2	1	0	138
59	478.2	1976	2	2	0	1000
60	478.2	1976	2	3	0	1105
61	478.2	1976	2	4	0	777
62	478.2	1976	2	5	0	856
63	478.2	1976	2	6	0	417
64	478.2	1976	2	7	0	490
65	478.2	1976	2	8	0	696
66	478.2	1976	2	9	0	757
67	478.2	1976	2	10	0	727
68	478.2	1976	3	1	0	664
69	478.2	1976	3	2	0	757
70	478.2	1976	3	3	0	496
71	478.2	1976	3	4	0	399
72	478.2	1976	3	5	0	706
73	478.2	1976	3	6	0	458
74	478.2	1976	3	7	0	537
75	478.2	1976	3	8	0	506
76	478.2	1976	3	9	0	293
77	478.2	1976	3	10	0	665
78	478.2	1976	4	1	19	561
79	478.2	1976	4	2	19	874
80	478.2	1976	4	3	19	600
81	478.2	1976	4	4	19	533
82	478.2	1976	4	5	19	308
83	478.2	1976	4	6	19	573
84	478.2	1976	4	7	19	885
85	478.2	1976	4	8	19	1175
86	478.2	1976	4	9	19	865
87	478.2	1976	4	10	19	612
88	478.2	1977	1	1	19	472
89	478.2	1977	1	2	19	344
90	478.2	1977	1	3	19	670
91	478.2	1977	1	4	19	489
92	478.2	1977	1	5	19	724
93	478.2	1977	1	6	19	508
94	478.2	1977	1	7	19	815
95	478.2	1977	1	8	19	543
96	478.2	1977	1	9	19	344
97	478.2	1977	1	10	19	997
98	478.2	1977	2	1	19	634
99	478.2	1977	2	2	19	459
100	478.2	1977	2	3	19	871
101	478.2	1977	2	4	19	398
102	478.2	1977	2	5	19	890
103	478.2	1977	2	6	19	745
104	478.2	1977	2	7	19	1050
105	478.2	1977	2	8	19	963
106	478.2	1977	2	9	19	743
107	478.2	1977	2	10	19	798
108	478.2	1977	3	1	21	199

MAY 1971 - NOVEMBER 1962

TAXON=TOTAL

OPS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
109	473.2	1977	3	2	15	362
110	478.2	1977	3	3	15	543
111	478.2	1977	3	4	15	815
112	478.2	1977	3	5	15	542
113	478.2	1977	3	6	15	72
114	478.2	1977	3	7	15	435
115	473.2	1977	3	8	15	453
116	473.2	1977	3	9	15	399
117	478.2	1977	3	10	15	453
118	478.2	1977	4	1	15	1088
119	478.2	1977	4	2	15	18
120	473.2	1977	4	3	15	906
121	478.2	1977	4	4	15	924
122	478.2	1977	4	5	15	653
123	478.2	1977	4	6	15	1070
124	478.2	1977	4	7	15	852
125	478.2	1977	4	8	15	326
126	478.2	1977	4	9	15	744
127	478.2	1977	4	10	15	888
128	478.2	1978	1	1	19	489
129	473.2	1978	1	2	19	399
130	473.2	1978	1	3	19	0
131	478.2	1978	1	4	19	30
132	478.2	1978	1	5	19	108
133	478.2	1978	1	6	19	181
134	473.2	1978	1	7	19	199
135	473.2	1978	1	8	19	126
136	478.2	1978	1	9	19	217
137	478.2	1978	1	10	19	253
138	478.2	1978	2	1	19	344
139	478.2	1978	2	2	19	218
140	478.2	1978	2	3	19	54
141	478.2	1978	2	4	19	18
142	478.2	1978	2	5	19	127
143	478.2	1978	2	6	19	271
144	478.2	1978	2	7	19	109
145	478.2	1978	2	8	19	54
146	478.2	1978	2	9	19	199
147	478.2	1978	2	10	19	689
148	478.2	1978	3	1	19	489
149	478.2	1978	3	2	19	163
150	478.2	1978	3	3	19	417
151	478.2	1978	3	4	19	1053
152	478.2	1978	3	5	19	670
153	478.2	1978	3	6	19	598
154	478.2	1978	3	7	19	742
155	478.2	1978	3	8	19	217
156	478.2	1978	3	9	19	652
157	478.2	1978	3	10	19	580
158	478.2	1978	4	1	19	0
159	473.2	1978	4	2	19	145
160	478.2	1978	4	3	19	471
161	478.2	1978	4	4	19	199
162	478.2	1978	4	5	19	217

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MAY 1971 - NOVEMBER 1982

TAXON-TOTAL

DBS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
163	478.2	1978	4	6	19	235
164	478.2	1978	4	7	19	326
165	478.2	1978	4	8	19	254
166	478.2	1978	4	9	19	707
167	478.2	1978	4	10	19	417
168	478.2	1980	4	1	AO	578
169	478.2	1980	4	2	AO	866
170	478.2	1980	4	3	AO	521
171	478.2	1980	4	4	AO	469
172	478.2	1980	4	5	AO	631
173	478.2	1980	4	6	AO	614
174	478.2	1980	4	7	AO	505
175	478.2	1980	4	8	AO	54
176	478.2	1980	4	9	AO	758
177	478.2	1980	4	10	AO	705
178	478.2	1982	1	1	AO	234
179	478.2	1982	1	2	AO	325
180	478.2	1982	1	3	AO	324
181	478.2	1982	1	4	AO	397
182	478.2	1982	1	5	AO	560
183	478.2	1982	1	6	AO	506
184	478.2	1982	1	7	AO	578
185	478.2	1982	1	8	AO	342
186	478.2	1982	1	9	AO	234
187	478.2	1982	1	10	AO	668
188	478.2	1982	2	1	AO	577
189	478.2	1982	2	2	AO	415
190	478.2	1982	2	3	AO	288
191	478.2	1982	2	4	AO	577
192	478.2	1982	2	5	AO	794
193	478.2	1982	2	6	AO	704
194	478.2	1982	2	7	AO	595
195	478.2	1982	2	8	AO	270
196	478.2	1982	2	9	AO	904
197	478.2	1982	2	10	AO	1103
198	478.2	1982	3	1	AO	469
199	478.2	1982	3	2	AO	90
200	478.2	1982	3	3	AO	325
201	478.2	1982	3	4	AO	217
202	478.2	1982	3	5	AO	180
203	478.2	1982	3	6	AO	180
204	478.2	1982	3	7	AO	234
205	478.2	1982	3	8	AO	270
206	478.2	1982	3	9	AO	108
207	478.2	1982	3	10	AO	216
208	478.2	1982	4	1	AO	596
209	478.2	1982	4	2	AO	433
210	478.2	1982	4	3	AO	379
211	478.2	1982	4	4	AO	306
212	478.2	1982	4	5	AO	469
213	478.2	1982	4	6	AO	614
214	478.2	1982	4	7	AO	505
215	478.2	1982	4	8	AO	741
216	478.2	1982	4	9	AO	432

MAY 1971 - NOVEMBER 1972

TAXON=TOTAL

OBS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
217	479.2	1982	4	10	AD	577
218	483.4	1971	3	1	71	421
219	483.4	1971	3	2	71	594
220	483.4	1971	3	3	71	205
221	483.4	1971	4	1	71	551
222	483.4	1971	4	2	71	270
223	483.4	1971	4	3	71	237
224	483.4	1972	1	1		153
225	483.4	1972	1	2		36
226	483.4	1972	1	3		77
227	483.4	1972	2	1		398
228	483.4	1972	2	2		112
229	483.4	1972	2	3		316
230	483.4	1972	3	1	0	164
231	483.4	1972	3	2	0	109
232	483.4	1972	3	3	0	145
233	483.4	1972	4	1	0	678
234	483.4	1972	4	2	0	1117
235	483.4	1972	4	3	0	815
236	483.4	1973	1	1	0	324
237	483.4	1973	1	2	0	36
238	483.4	1973	1	3	0	34
239	483.4	1973	2	1	0	0
240	483.4	1973	2	2	0	18
241	483.4	1973	2	3	0	0
242	483.4	1973	3	1	0	66
243	483.4	1973	3	2	0	163
244	483.4	1973	3	3	0	36
245	483.4	1973	4	1	0	996
246	483.4	1973	4	2	0	881
247	483.4	1973	4	3	0	943
248	483.4	1974	1	1	0	144
249	483.4	1974	1	2	0	308
250	483.4	1974	1	3	0	217
251	483.4	1974	2	1	0	0
252	483.4	1974	2	2	0	54
253	483.4	1974	2	3	0	36
254	483.4	1974	3	1	0	241
255	483.4	1974	3	2	0	337
256	483.4	1974	3	3	0	288
257	483.4	1974	4	1	0	314
258	483.4	1974	4	2	0	154
259	483.4	1974	4	3	0	200
260	483.4	1975	1	1		597
261	483.4	1975	1	2		869
262	483.4	1975	1	3		796
263	483.4	1975	2	1	0	478
264	483.4	1975	2	2	0	347
265	483.4	1975	2	3	0	148
266	483.4	1975	3	1	0	240
267	483.4	1975	3	2	0	933
268	483.4	1975	3	3	0	257
269	483.4	1975	4	1		344
270	483.4	1975	4	2		145

MAY 1971 - NOVEMBER 1972

TAXON-TOTAL

ORIS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
271	483.4	1976	4	3		484
272	483.4	1976	1	1	0	134
273	483.4	1976	1	2	0	194
274	483.4	1976	1	3	0	18
275	483.4	1976	2	1	0	65
276	483.4	1976	2	2	0	163
277	483.4	1976	2	3	0	65
278	483.4	1976	2	4	0	181
279	483.4	1976	2	5	0	203
280	483.4	1976	2	6	0	174
281	483.4	1976	2	7	0	126
282	483.4	1976	2	8	0	336
283	483.4	1976	2	9	0	301
284	483.4	1976	2	10	0	138
285	483.4	1976	3	1	0	54
286	483.4	1976	3	2	0	122
287	483.4	1976	3	3	0	0
288	483.4	1976	3	4	0	177
289	483.4	1976	3	5	0	215
290	483.4	1976	3	6	0	306
291	483.4	1976	3	7	0	344
292	483.4	1976	3	8	0	36
293	483.4	1976	3	9	0	218
294	483.4	1976	3	10	0	135
295	483.4	1976	4	1	68	276
296	483.4	1976	4	2	68	32
297	483.4	1976	4	3	68	216
298	483.4	1976	4	4	68	141
299	483.4	1976	4	5	68	54
300	483.4	1976	4	6	68	36
301	483.4	1976	4	7	68	127
302	483.4	1976	4	8	68	54
303	483.4	1976	4	9	68	76
304	483.4	1976	4	10	68	36
305	483.4	1977	1	1	68	90
306	483.4	1977	1	2	68	308
307	483.4	1977	1	3	68	0
308	483.4	1977	1	4	68	18
309	483.4	1977	1	5	68	1269
310	483.4	1977	1	6	68	253
311	483.4	1977	1	7	68	36
312	483.4	1977	1	8	68	72
313	483.4	1977	1	9	68	145
314	483.4	1977	1	10	68	308
315	483.4	1977	2	1	68	272
316	483.4	1977	2	2	68	91
317	483.4	1977	2	3	68	109
318	483.4	1977	2	4	68	108
319	483.4	1977	2	5	68	218
320	483.4	1977	2	6	68	54
321	483.4	1977	2	7	68	326
322	483.4	1977	2	8	68	72
323	483.4	1977	2	9	68	145
324	483.4	1977	2	10	68	308

MAY 1971 - NOVEMBER 1982

TAXON=TOTAL

OBS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
325	483.4	1977	3	1	68	272
326	483.4	1977	3	2	68	526
327	483.4	1977	3	3	68	18
328	483.4	1977	3	4	68	72
329	483.4	1977	3	5	68	200
330	483.4	1977	3	6	68	579
331	483.4	1977	3	7	68	1232
332	483.4	1977	3	8	68	1135
333	483.4	1977	3	9	68	508
334	483.4	1977	3	10	68	271
335	483.4	1977	4	1	68	307
336	483.4	1977	4	2	68	54
337	483.4	1977	4	3	68	0
338	483.4	1977	4	4	68	381
339	483.4	1977	4	5	68	490
340	483.4	1977	4	6	68	362
341	483.4	1977	4	7	68	417
342	483.4	1977	4	8	68	271
343	483.4	1977	4	9	68	151
344	483.4	1977	4	10	68	218
345	483.4	1978	1	1	68	36
346	483.4	1978	1	2	68	0
347	483.4	1978	1	3	68	151
348	483.4	1978	1	4	68	18
349	483.4	1978	1	5	68	616
350	483.4	1978	1	6	68	18
351	483.4	1978	1	7	68	18
352	483.4	1978	1	8	68	18
353	483.4	1978	1	9	68	54
354	483.4	1978	1	10	68	72
355	483.4	1978	2	1	68	126
356	483.4	1978	2	2	68	13
357	483.4	1978	2	3	68	151
358	483.4	1978	2	4	68	126
359	483.4	1978	2	5	68	254
360	483.4	1978	2	6	68	72
361	483.4	1978	2	7	68	145
362	483.4	1978	2	8	68	54
363	483.4	1978	2	9	68	54
364	483.4	1978	2	10	68	36
365	483.4	1978	3	1	68	996
366	483.4	1978	3	2	68	254
367	483.4	1978	3	3	68	634
368	483.4	1978	3	4	68	145
369	483.4	1978	3	5	68	106
370	483.4	1978	3	6	68	362
371	483.4	1978	3	7	68	109
372	483.4	1978	3	8	68	90
373	483.4	1978	3	9	68	581
374	483.4	1978	3	10	68	152
375	483.4	1978	4	1	68	127
376	483.4	1978	4	2	68	72
377	483.4	1978	4	3	68	163
378	483.4	1978	4	4	68	36

MAY 1971 - NOVEMBER 1972

TAXON TOTAL

OBS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
379	483.4	1975	4	5	68	72
380	483.4	1975	4	6	68	18
381	483.4	1975	4	7	68	0
382	483.4	1975	4	8	68	0
383	483.4	1975	4	9	68	18
384	483.4	1975	4	10	68	0
385	483.4	1980	4	1	AC	361
386	483.4	1980	4	2	AC	126
387	483.4	1980	4	3	AC	415
388	483.4	1980	4	4	AC	162
389	483.4	1980	4	5	AC	288
390	483.4	1980	4	6	AC	269
391	483.4	1980	4	7	AC	90
392	483.4	1980	4	8	AC	668
393	483.4	1980	4	9	AC	342
394	483.4	1980	4	10	AC	325
395	483.4	1982	1	1	AC	904
396	483.4	1982	1	2	AC	904
397	483.4	1982	1	3	AC	1050
398	483.4	1982	1	4	AC	234
399	483.4	1982	1	5	AC	524
400	483.4	1982	1	6	AC	1812
401	483.4	1982	1	7	AC	1175
402	483.4	1982	1	8	AC	289
403	483.4	1982	1	9	AC	542
404	483.4	1982	1	10	AC	126
405	483.4	1982	2	1	AC	379
406	483.4	1982	2	2	AC	379
407	483.4	1982	2	3	AC	596
408	483.4	1982	2	4	AC	434
409	483.4	1982	2	5	AC	506
410	483.4	1982	2	6	AC	668
411	483.4	1982	2	7	AC	650
412	483.4	1982	2	8	AC	414
413	483.4	1982	2	9	AC	542
414	483.4	1982	2	10	AC	614
415	483.4	1982	3	1	AC	36
416	483.4	1982	3	2	AC	145
417	483.4	1982	3	3	AC	54
418	483.4	1982	3	4	AC	54
419	483.4	1982	3	5	AC	198
420	483.4	1982	3	6	AC	108
421	483.4	1982	3	7	AC	90
422	483.4	1982	3	8	AC	126
423	483.4	1982	3	9	AC	163
424	483.4	1982	3	10	AC	50
425	483.4	1982	4	1	AC	36
426	483.4	1982	4	2	AC	54
427	483.4	1982	4	3	AC	36
428	483.4	1982	4	4	AC	90
429	483.4	1982	4	5	AC	54
430	483.4	1982	4	6	AC	18
431	483.4	1982	4	7	AC	36
432	483.4	1982	4	8	AC	36

MAY 1971 - NOVEMBER 1972

TAXON=TOTAL

ORS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
433	483.4	1962	4	2	AC	54
434	483.4	1962	4	10	AC	72
435	490.5	1971	3	1	78	173
436	490.5	1971	3	2	78	193
437	490.5	1971	3	3	78	152
438	490.5	1971	4	1	78	239
439	490.5	1971	4	2	78	161
440	490.5	1971	4	3	78	173
441	490.5	1972	1	1		77
442	490.5	1972	1	2		269
443	490.5	1972	1	3		211
444	490.5	1972	2	1		280
445	490.5	1972	2	2		236
446	490.5	1972	2	3		362
447	490.5	1972	3	1	0	199
448	490.5	1972	3	2	0	573
449	490.5	1972	3	3	0	927
450	490.5	1972	4	1	0	705
451	490.5	1972	4	2	0	543
452	490.5	1972	4	3	0	513
453	490.5	1973	1	1	0	212
454	490.5	1973	1	2	0	249
455	490.5	1973	1	3	0	693
456	490.5	1973	2	1	0	439
457	490.5	1973	2	2	0	562
458	490.5	1973	2	3	0	416
459	490.5	1973	3	1	0	231
460	490.5	1973	3	2	0	297
461	490.5	1973	3	3	0	323
462	490.5	1973	4	1	0	1162
463	490.5	1973	4	2	0	1323
464	490.5	1973	4	3	0	2212
465	490.5	1974	1	1	0	499
466	490.5	1974	1	2	0	366
467	490.5	1974	1	3	0	393
468	490.5	1974	2	1	0	218
469	490.5	1974	2	2	0	339
470	490.5	1974	2	3	0	299
471	490.5	1974	3	1	0	259
472	490.5	1974	3	2	0	90
473	490.5	1974	3	3	0	191
474	490.5	1974	4	1	0	772
475	490.5	1974	4	2	0	380
476	490.5	1974	4	3	0	412
477	490.5	1975	1	1		977
478	490.5	1975	1	2		415
479	490.5	1975	1	3		940
480	490.5	1975	2	1	0	259
481	490.5	1975	2	2	0	188
482	490.5	1975	2	3	0	263
483	490.5	1975	3	1	0	147
484	490.5	1975	3	2	0	127
485	490.5	1975	3	3	0	125
486	490.5	1975	4	1		1628

MAY 1971 - NOVEMBER 1982

TAXONETOTAL

ONS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
487	490.5	1975	4	2		506
488	490.5	1975	4	3		959
489	490.5	1976	1	1	0	309
490	490.5	1976	1	2	0	170
491	490.5	1976	1	3	0	362
492	490.5	1976	2	1	0	296
493	490.5	1976	2	2	0	166
494	490.5	1976	2	3	0	267
495	490.5	1976	2	4	0	175
496	490.5	1976	2	5	0	155
497	490.5	1976	2	6	0	367
498	490.5	1976	2	7	0	379
499	490.5	1976	2	8	0	540
500	490.5	1976	2	9	0	421
501	490.5	1976	2	10	0	370
502	490.5	1976	3	1	0	230
503	490.5	1976	3	2	0	117
504	490.5	1976	3	3	0	175
505	490.5	1976	3	4	0	111
506	490.5	1976	3	5	0	73
507	490.5	1976	3	6	0	142
508	490.5	1976	3	7	0	189
509	490.5	1976	3	8	0	152
510	490.5	1976	3	9	0	229
511	490.5	1976	3	10	0	129
512	490.5	1976	4	1	19	347
513	490.5	1976	4	2	19	461
514	490.5	1976	4	3	19	541
515	490.5	1976	4	4	19	526
516	490.5	1976	4	5	19	471
517	490.5	1976	4	6	19	622
518	490.5	1976	4	7	19	623
519	490.5	1976	4	8	19	793
520	490.5	1976	4	9	19	332
521	490.5	1976	4	10	19	762
522	490.5	1977	1	1	19	290
523	490.5	1977	1	2	19	363
524	490.5	1977	1	3	19	598
525	490.5	1977	1	4	19	217
526	490.5	1977	1	5	19	254
527	490.5	1977	1	6	19	254
528	490.5	1977	1	7	19	345
529	490.5	1977	1	8	19	306
530	490.5	1977	1	9	19	199
531	490.5	1977	1	10	19	236
532	490.5	1977	2	1	19	599
533	490.5	1977	2	2	19	762
534	490.5	1977	2	3	19	181
535	490.5	1977	2	4	19	489
536	490.5	1977	2	5	19	635
537	490.5	1977	2	6	19	580
538	490.5	1977	2	7	19	780
539	490.5	1977	2	8	19	399
540	490.5	1977	2	9	19	217

MAY 1971 - NOVEMBER 1972

TAXON-TOTAL

OPS	PIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
541	490.5	1977	2	10	19	343
542	490.5	1977	3	1	19	488
543	490.5	1977	3	2	19	671
544	490.5	1977	3	3	19	508
545	490.5	1977	3	4	19	725
546	490.5	1977	3	5	19	761
547	490.5	1977	3	6	19	688
548	490.5	1977	3	7	19	345
549	490.5	1977	3	8	19	471
550	490.5	1977	3	9	19	453
551	490.5	1977	3	10	19	452
552	490.5	1977	4	1	19	725
553	490.5	1977	4	2	19	599
554	490.5	1977	4	3	19	472
555	490.5	1977	4	4	19	888
556	490.5	1977	4	5	19	743
557	490.5	1977	4	6	19	833
558	490.5	1977	4	7	19	671
559	490.5	1977	4	8	19	652
560	490.5	1977	4	9	19	380
561	490.5	1977	4	10	19	709
562	490.5	1978	1	1	19	689
563	490.5	1978	1	2	19	453
564	490.5	1978	1	3	19	780
565	490.5	1978	1	4	19	634
566	490.5	1978	1	5	19	888
567	490.5	1978	1	6	19	635
568	490.5	1978	1	7	19	742
569	490.5	1978	1	8	19	398
570	490.5	1978	1	9	19	396
571	490.5	1978	1	10	19	616
572	490.5	1978	2	1	19	561
573	490.5	1978	2	2	19	725
574	490.5	1978	2	3	19	616
575	490.5	1978	2	4	19	760
576	490.5	1978	2	5	19	598
577	490.5	1978	2	6	19	816
578	490.5	1978	2	7	19	870
579	490.5	1978	2	8	19	599
580	490.5	1978	2	9	19	616
581	490.5	1978	2	10	19	561
582	490.5	1978	3	1	19	145
583	490.5	1978	3	2	19	506
584	490.5	1978	3	3	19	543
585	490.5	1978	3	4	19	490
586	490.5	1978	3	5	19	434
587	490.5	1978	3	6	19	489
588	490.5	1978	3	7	19	616
589	490.5	1978	3	8	19	471
590	490.5	1978	3	9	19	489
591	490.5	1978	3	10	19	325
592	490.5	1978	4	1	19	308
593	490.5	1978	4	2	19	290
594	490.5	1978	4	3	19	253

MAY 1971 - NOVEMBER 1982

TAXON-TOTAL

OPS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUMM
595	490.5	1978	4	4	19	199
596	490.5	1978	4	5	19	217
597	490.5	1978	4	6	19	308
598	490.5	1978	4	7	19	344
599	490.5	1978	4	8	19	163
600	490.5	1978	4	9	19	379
601	490.5	1978	4	10	19	290
602	490.5	1980	4	1	AQ	379
603	490.5	1980	4	2	AQ	342
604	490.5	1980	4	3	AQ	162
605	490.5	1980	4	4	AG	192
606	490.5	1980	4	5	AG	144
607	490.5	1980	4	6	AQ	307
608	490.5	1980	4	7	AQ	271
609	490.5	1980	4	8	AG	54
610	490.5	1980	4	9	AG	108
611	490.5	1980	4	10	AQ	126
612	490.5	1982	1	1	AG	306
613	490.5	1982	1	2	AG	379
614	490.5	1982	1	3	AQ	162
615	490.5	1982	1	4	AQ	379
616	490.5	1982	1	5	AQ	469
617	490.5	1982	1	6	AG	486
618	490.5	1982	1	7	AG	578
619	490.5	1982	1	8	AG	469
620	490.5	1982	1	9	AG	469
621	490.5	1982	1	10	AG	470
622	490.5	1982	2	1	AG	288
623	490.5	1982	2	2	AQ	324
624	490.5	1982	2	3	AG	306
625	490.5	1982	2	4	AQ	162
626	490.5	1982	2	5	AQ	324
627	490.5	1982	2	6	AG	234
628	490.5	1982	2	7	AQ	270
629	490.5	1982	2	8	AQ	162
630	490.5	1982	2	9	AQ	126
631	490.5	1982	2	10	AG	270
632	490.5	1982	3	1	AQ	216
633	490.5	1982	3	2	AQ	216
634	490.5	1982	3	3	AQ	235
635	490.5	1982	3	4	AG	235
636	490.5	1982	3	5	AG	180
637	490.5	1982	3	6	AG	180
638	490.5	1982	3	7	AQ	196
639	490.5	1982	3	8	AQ	198
640	490.5	1982	3	9	AQ	144
641	490.5	1982	3	10	AQ	72
642	490.5	1982	4	1	AQ	180
643	490.5	1982	4	2	AQ	266
644	490.5	1982	4	3	AQ	271
645	490.5	1982	4	4	AQ	216
646	490.5	1982	4	5	AQ	307
647	490.5	1982	4	6	AQ	379
648	490.5	1982	4	7	AQ	216

MAY 1971 - NOVEMBER 1982

TAXON=TOTAL

OBS	RIV_MILE	YEAR	QUARTER	REP_NUM	SAM_LOC	SUM
649	490.5	1982	4	9	AQ	361
650	490.5	1982	4	9	AQ	144
651	490.5	1982	4	10	AQ	252

APPENDIX Q

MEAN MACROINVERTEBRATE DENSITIES OF TOTAL AND DOMINANT
TAXA, SEQUOYAH NUCLEAR PLANT, CHICKAMAUGA RESERVOIR,
1971 THROUGH 1982

Appendix Q. Mean Macroinvertebrate Densities for Total and Dominant Taxa, Sequoyah Nuclear Plant, Chickamauga Reservoir, 1971 Through 1982

Year*	TRM	Winter	Spring	Summer	Fall
Total Macroinvertebrates					
1971	490.5	-†	-	173	191
	483.4	-	-	407	453
	478.2	-	-	274	620
1972	490.5	186	300	570	587
	483.4	89	276	139	870
	478.2	320	183	201	714
1973	490.5	385	472	284	1566
	483.4	131	6	88	940
	478.2	1140	169	313	1118
1974	490.5	419	285	180	521
	483.4	223	30	289	223
	478.2	817	389	412	1374
1975	490.5	779	237	133	1033
	483.4	755	324	477	326
	478.2	1045	386	320	623
1976	490.5	280	316	155	548
	483.4	117	175	161	105
	478.2	793	696	548	699
1977	490.5	306	499	556	687
	483.4	250	170	481	268
	478.2	591	758	427	747
1978	490.5	623	672	451	275
	483.4	103	107	346	51
	478.2	206	210	558	297
1980	490.5	-	-	-	209
	483.4	-	-	-	306
	478.2	-	-	-	610
1982	490.5	416	247	187	261
	483.4	752	517	106	49
	478.2	416	621	229	504
Corbicula					
1971	490.5	-	-	75	14
	483.4	-	-	226	79
	478.2	-	-	115	136
1972	490.5	32	0	211	84
	483.4	64	24	18	48
	478.2	0	0	24	12
1973	490.5	79	60	61	36
	483.4	0	0	54	42
	478.2	12	42	0	0

Appendix Q (Continued)

Year*	TRM	Winter	Spring	Summer	Fall
1974	490.5	79	103	12	157
	483.4	157	18	85	163
	478.2	18	278	0	12
1975	490.5	133	30	24	97
	483.4	139	218	127	223
	478.2	18	12	0	0
1976	490.5	73	94	44	47
	483.4	61	94	107	49
	478.2	0	234	285	236
1977	490.5	125	0	27	125
	483.4	203	93	118	111
	478.2	216	16	9	5
1978	490.5	111	161	9	7
	483.4	73	60	89	4
	478.2	91	2	13	0
1980	490.5	-	-	-	72
	483.4	-	-	-	70
	478.2	-	-	-	130
1982	490.5	175	61	2	106
	483.4	416	286	23	16
	478.2	94	76	99	86

Hexagenia

1971	490.5	-	-	43	36
	483.4	-	-	50	197
	478.2	-	-	86	54
1972	490.5	51	226	230	284
	483.4	0	84	0	466
	478.2	6	30	96	97
1973	490.5	218	314	109	375
	483.4	109	0	0	792
	478.2	0	85	0	0
1974	490.5	242	72	109	235
	483.4	12	0	0	12
	478.2	36	72	6	12
1975	490.5	266	48	54	115
	483.4	12	0	0	12
	478.2	30	296	115	0
1976	490.5	169	54	43	403
	483.4	6	33	7	20
	478.2	0	270	53	238
1977	490.5	147	287	170	207
	483.4	29	0	15	0
	478.2	234	225	98	462

Appendix Q (Continued)

Year*	TRM	Winter	Spring	Summer	Fall
1978	490.5	306	286	223	143
	483.4	0	5	0	0
	478.2	16	22	167	47
1980	490.5	-	-	-	34
	483.4	-	-	-	31
	478.2	-	-	-	85
1981	490.5	25	110	29	11
	483.4	4	5	4	2
	478.2	133	221	-	40
1982	490.5	22	56	36	32
	483.4	2	2	0	0
	478.2	67	94	22	149

Chironomidae

1971	490.5	-	-	39	108
	483.4	-	-	97	133
	478.2	-	-	54	255
1972	490.5	103	30	60	157
	483.4	19	48	97	284
	478.2	179	139	54	211
1973	490.5	36	79	54	1082
	483.4	12	6	18	84
	478.2	326	24	0	369
1974	490.5	24	72	18	73
	483.4	30	12	48	0
	478.2	538	6	24	314
1975	490.5	145	36	6	60
	483.4	30	6	223	0
	478.2	405	48	55	121
1976	490.5	24	89	27	82
	483.4	18	20	18	11
	478.2	223	109	101	134
1977	490.5	25	125	112	190
	483.4	4	13	61	14
	478.2	98	223	72	169
1978	490.5	143	130	65	78
	483.4	2	5	47	7
	478.2	47	20	101	43
1980	490.5	-	-	-	56
	483.4	-	-	-	142
	478.2	-	-	-	241

Appendix Q (Continued)

Year*	TRM	Winter	Spring	Summer	Fall
1981	490.5	194	106	38	47
	483.4	155	261	4	31
	478.2	247	261	-	117
1982	490.5	117	83	34	83
	483.4	76	29	72	18
	478.2	110	128	41	169

Oligochaeta

1971	490.5	-	-	10	0
	483.4	-	-	32	7
	478.2	-	-	9	93
1972	490.5	†	37	44	44
	483.4	†	119	12	18
	478.2	†	14	14	8
1973	490.5	52	7	48	7
	483.4	11	0	16	4
	478.2	16	0	23	6
1974	490.5	57	26	35	26
	483.4	0	0	144	47
	478.2	37	21	50	38
1975	490.5	230	122	43	750
	483.4	568	101	103	91
	478.2	0	30	145	272
1976	490.5	14	73	34	13
	483.4	32	14	25	22
	478.2	14	64	95	66
1977	490.5	5	78	49	71
	483.4	11	65	252	116
	478.2	34	247	114	94
1978	490.5	40	87	83	32
	483.4	27	20	27	38
	478.2	52	156	78	151
1980	490.5	-	-	-	20
	483.4	-	-	-	32
	478.2	-	-	-	32
1981	490.5	67	83	115	29
	483.4	65	79	50	52
	478.2	63	162	-	101
1982	490.5	68	45	108	29
	483.4	250	151	7	0
	478.2	130	283	56	18

* 1971-1978: Preoperational monitoring

† 1980-1982: Operational monitoring

‡ No samples collected.

† Data could not be converted from cm lengths to organisms.

APPENDIX R

METALS DATA FROM MOLLUSKS (WHOLE BODY, SOFT TISSUE) UTILIZED
IN DETERMINING BIOACCUMULATION IN THE VICINITY OF
SEQUOYAH NUCLEAR PLANT, CHICKAMAUGA RESERVOIR, 1982

Appendix R. (Continued)

Date Collected	Species	Location	Replicate	Metal Concentration (µg/g)					
				Iron	Copper	Zinc	Nickel	Aluminum	Cadmium
8/25/82	<u>Amblema plicata</u>	Upstream	1	150	0.9	45	<1	66.0	0.21
			2	280	1.0	44	<1	59.0	0.20
			3	190	0.7	46	<1	71.0	0.21
		Downstream	1	290	1.3	40	<1	21.0	0.24
			2	460	1.4	85	<1	12.0	0.27
			3	190	1.1	60	<1	29.0	0.23
	<u>Corbicula manilensis</u>	Upstream	1	110	7.4	21	<1	100.0	0.16
			2	140	7.6	20	<1	130.0	0.15
			3	140	9.3	23	<1	140.0	0.21
		Downstream	1	81	9.2	18	<1	62.0	0.15
			2	73	9.7	18	<1	51.0	0.11
			3	79	8.8	17	<1	61.0	0.13
	<u>Cyclonaias tuberculata</u>	Upstream	1	400	2.9	64	<1	200.0	0.26
			2	340	2.8	53	<1	160.0	0.52
			3	350	2.9	52	<1	190.0	0.59
		Downstream	1	280	3.1	50	<1	170.0	0.37
			2	190	2.9	40	<1	76.0	0.52
			3	370	3.2	55	<1	75.0	0.37
	<u>Amblema plicata</u>	Upstream	1	300	1.3	53	<1	58.0	0.19
			2	310	1.1	42	<1	61.0	0.26
			3	420	1.4	62	<1	150.0	0.28
		Downstream	1	440	1.5	88	<1	150.0	0.31
			2	310	2.0	68	<1	62.0	0.31
			3	480	1.9	61	<1	200.0	0.34

Appendix R. (Continued)

Date Collected	Species	Location	Replicate	Metal Concentration (µg/g)					
				Iron	Copper	Zinc	Nickel	Aluminum	Cadmium
11/4/82	<u>Corbicula manilensis</u>	Upstream	1	42	9.2	16	<1	30.0	0.24
			2	39	8.5	14	<1	18.0	0.21
			3	130	7.8	17	<1	150.0	0.18
		Downstream	1	110	9.5	19	<1	130.0	0.28
			2	130	7.9	18	<1	160.0	0.19
			3	130	10.0	17	<1	74.0	0.25
	<u>Cyclonaias tuberculata</u>	Upstream	1	200	2.2	51	<1	52.0	0.19
			2	260	2.2	64	<1	34.0	0.34
			3	180	2.3	34	<1	69.0	0.22
		Downstream	1	180	1.7	32	<1	74.0	0.17
			2	280	2.9	52	<1	70.0	0.25
			3	250	2.2	40	<1	100.0	0.14
	<u>Amblema plicata</u>	Upstream	1	250	1.0	51	<1	48.0	0.11
			2	360	0.9	54	<1	71.0	0.22
		Downstream	1	450	0.6	63	<1	56.0	0.28
			2	310	0.6	57	<1	31.0	0.12
			3	390	0.7	46	<1	85.0	0.17
	<u>Corbicula manilensis</u>	Upstream	1	230	8.9	20	<1	200.0	0.15
			2	150	5.8	15	<1	120.0	0.09
			3	180	5.7	20	<1	160.0	0.11
		Downstream	1	240	14.0	19	<1	200.0	0.19
			2	210	13.0	19	<1	170.0	0.14
			3	180	10.0	17	<1	160.0	0.12

*Upstream = TRM 485.0

Downstream = TRM 482.9

APPENDIX S

LIST OF COMMON AND SCIENTIFIC NAMES OF FISHES IMPINGED AT
SEQUOYAH NUCLEAR PLANT DURING THE PERIOD
MAY 1980 THROUGH DECEMBER 1982

Appendix S. List of Common and Scientific Names of Fishes Impinged at
Sequoyah Nuclear Plant During the Period May 1980 through
December 1982

Common Name	Scientific Name
Chestnut lamprey	<u>Ichthyomyzon castaneus</u>
Skipjack Herring	<u>Alosa chrysochloris</u>
Gizzard shad	<u>Dorosoma cepedianum</u>
Threadfin shad	<u>D. petenense</u>
Mooneye	<u>Hiodon tergisus</u>
Silver chub	<u>Hybopsis storeriana</u>
River chub	<u>Nocomis micropogon</u>
Golden shiner	<u>Notemigonus crysolucas</u>
Emerald shiner	<u>Notropis atherinoides</u>
Spotfin shiner	<u>N. spilopterus</u>
Sawfin shiner	<u>N. (undescribed)</u>
Bluntnose minnow	<u>Pimephales notatus</u>
Bullhead minnow	<u>P. vigilax</u>
Spotted sucker	<u>Minytrema melanops</u>
Blue catfish	<u>Ictalurus furcatus</u>
Yellow bullhead	<u>I. natalis</u>
Brown bullhead	<u>I. nebulosus</u>
Channel catfish	<u>I. punctatus</u>
Unidentified madtom	<u>Noturus sp.</u>
Flathead catfish	<u>Pylodictis olivaris</u>
Mosquitofish	<u>Gambusia affinis</u>
White bass	<u>Morone chrysops</u>
Yellow bass	<u>M. mississippiensis</u>
Warmouth	<u>Lepomis gulosus</u>
Redbreast sunfish	<u>L. auritus</u>
Green sunfish	<u>L. cyanellus</u>
Bluegill	<u>L. macrochirus</u>
Longear sunfish	<u>L. megalotis</u>
Redear sunfish	<u>L. microlophus</u>
Spotted bass	<u>Micropterus punctulatus</u>
Largemouth bass	<u>M. salmoides</u>
White crappie	<u>Pomixis annularis</u>
Black crappie	<u>P. nigromaculatus</u>
Yellow perch	<u>Perca flavescens</u>
Logperch	<u>Percina caprodes</u>
Sauger	<u>Stizostedion canadense</u>
Freshwater drum	<u>Aplodinotus grunniens</u>

APPENDIX T

MEAN NUMBER/HA OF EACH FISH SPECIES COLLECTED IN COVE ROTENONE
SAMPLES FROM CHICKAMAUGA RESERVOIR, 1970 THROUGH 1982,
NUMBER OF SAMPLES AT EACH LOCATION IN PARENTHESIS

Appendix T. Mean Number of Each Fish Species Collected in Cove Rotenone Samples from Chickamauga Reservoir, 1970 through 1982,
Number of Samples at Each Location in Parenthesis

Species	475.2 [*] (1)	475.7 [*] (7)	476.2 [*] (6)	478.0 [*] (13)	484.7 [*] (1)	492.6 [*] (1)	495.0 [*] (13)	1.2 [†] (1)	2.5 [†] (1)	3.5 [†] (1)
Chestnut lamprey	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00
Paddlefish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spotted gar	0.00	3.12	3.79	2.22	0.00	0.00	0.42	0.00	0.00	0.00
Longnose gar	2.22	0.87	2.96	0.62	0.00	14.29	1.23	0.00	0.00	0.00
Shortnose gar	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00
Skipjack herring	0.00	1.90	0.74	4.35	0.00	17.86	6.22	10.91	5.21	1.45
Unidentified shad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gizzard shad	5,981.11	732.33	2,668.89	1,374.48	832.65	585.71	2,698.80	758.18	500.00	2,924.64
Threadfin shad	1,286.67	2,895.48	243.76	2,017.64	277.55	2,875.00	2,931.75	427.27	4,289.58	8,504.35
Mixed shad	0.00	558.75	0.00	12.65	0.00	0.00	0.00	0.00	0.00	0.00
Mooneye	0.00	0.32	0.00	0.14	0.00	0.00	0.17	3.64	0.00	0.00
Minnow, carp	0.00	26.19	0.00	11.67	0.00	0.00	61.14	0.00	0.00	0.00
Central stoneroller	0.00	0.27	0.57	1.61	0.00	0.00	7.09	0.00	0.00	0.00
Goldfish	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	1.04	0.00
Carp	0.00	13.58	29.30	10.33	4.08	0.00	5.63	1.82	8.33	1.45
Silver chub	0.00	0.48	0.00	0.71	0.00	0.00	2.31	0.00	0.00	0.00
Golden shiner	0.00	20.91	342.19	170.09	0.00	0.00	287.07	0.00	21.87	30.43
Unidentified shiner	0.00	0.00	0.00	0.40	0.00	0.00	13.90	0.00	0.00	0.00
Emerald shiner	0.00	66.54	298.09	82.28	0.00	0.00	17.30	0.00	0.00	0.00
Ghost shiner	0.00	0.00	0.79	0.00	0.00	0.00	0.74	0.00	0.00	0.00
Common shiner	0.00	0.00	0.00	4.40	0.00	0.00	14.17	0.00	0.00	0.00
Spotfin shiner	0.00	5.09	33.58	150.34	0.00	0.00	50.30	0.00	0.00	0.00
Mimic shiner	0.00	7.83	0.00	1.03	0.00	0.00	1.15	0.00	0.00	0.00
Steelcolor shiner	0.00	0.00	0.00	2.88	0.00	0.00	0.65	0.00	0.00	0.00
Pugnose minnow	0.00	0.21	0.00	0.00	0.00	0.00	1.64	0.00	0.00	0.00
Striped shiner	0.00	0.00	0.00	0.00	0.00	0.00	2.32	0.00	0.00	0.00
Unidentified minnow	0.00	35.03	0.00	262.25	0.00	0.00	0.00	0.00	0.00	0.00
Bluntnose minnow	0.00	53.07	0.00	120.43	0.00	0.00	165.43	0.00	0.00	0.00
Fathead minnow	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00
Bullhead minnow	0.00	393.05	190.10	997.12	0.00	0.00	507.82	0.00	0.00	0.00

Appendix T. (Continued)

Species	475.2 [*] (1)	475.7 [*] (7)	476.2 [*] (6)	478.0 [*] (13)	484.7 [*] (1)	492.6 [*] (1)	495.0 [*] (13)	1.2 [†] (1)	2.5 [†] (1)	3.5 [†] (1)
River carpsucker	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Quillback carpsucker	0.00	0.00	0.00	0.00	2.04	0.00	0.38	1.82	0.00	0.00
White sucker	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00
Northern hogsucker	0.00	1.18	0.48	0.79	0.00	0.00	1.05	0.00	0.00	0.00
Unidentified buffalo	0.00	0.00	0.00	0.00	0.00	3.57	3.91	0.00	0.00	0.00
Smallmouth buffalo	63.33	15.29	1.27	10.71	34.69	0.00	8.98	14.55	51.04	42.03
Bigmouth buffalo	1.11	9.26	0.00	0.00	0.00	0.00	0.00	30.91	0.00	0.00
Black buffalo	0.00	0.11	0.00	0.00	2.04	0.00	0.00	0.00	0.00	0.00
Spotted sucker	1.11	31.54	8.66	17.56	0.00	175.00	21.68	1.82	21.87	8.70
Unidentified redhorse	0.00	0.00	0.00	0.00	0.00	0.00	3.56	10.91	0.00	1.45
Shorthead redhorse	0.00	0.11	0.00	0.00	0.00	3.57	1.15	0.00	0.00	0.00
River redhorse	0.00	0.11	0.00	0.08	0.00	0.00	0.17	0.00	0.00	0.00
Black redhorse	0.00	0.31	0.00	0.00	0.00	32.14	4.13	0.00	0.00	0.00
Golden redhorse	5.56	2.00	0.26	1.77	0.00	85.71	3.99	0.00	7.29	0.00
Blue catfish	0.00	0.00	0.77	1.98	0.00	0.00	0.47	10.91	57.29	0.00
Black bullhead	0.00	0.00	0.22	1.39	0.00	0.00	1.04	0.00	0.00	0.00
Yellow bullhead	0.00	0.00	0.00	0.21	0.00	0.00	3.14	0.00	0.00	0.00
Brown bullhead	0.00	0.00	0.40	0.00	0.00	0.00	0.13	0.00	0.00	0.00
Channel catfish	7.78	27.45	8.38	22.60	0.00	0.00	35.03	3.64	17.71	44.93
Flathead catfish	1.11	1.29	2.49	3.60	2.04	17.86	13.62	5.45	3.12	4.35
Killifish	0.00	0.00	0.00	0.00	0.00	0.00	47.56	0.00	0.00	0.00
Blackstripe topminnow	0.00	0.00	0.00	0.00	0.00	0.00	6.07	0.00	0.00	0.00
Blackspotted topminnow	0.00	1.13	0.00	2.33	0.00	0.00	8.20	0.00	0.00	0.00
Mosquitofish	0.00	0.15	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00
Unidentified temperate bass	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
White bass	15.56	2.19	11.18	1.59	8.16	3.57	12.42	0.00	26.04	43.48
Yellow bass	0.00	51.68	62.54	138.13	0.00	0.00	24.20	0.00	0.00	0.00
Rock bass	0.00	0.00	0.00	1.51	2.04	0.00	0.00	0.00	0.00	0.00
Unidentified sunfish	0.00	45.62	10,834.08	4,660.53	0.00	0.00	412.69	0.00	0.00	0.00
Warmouth	0.00	7.63	422.14	374.91	0.00	35.71	794.53	32.73	22.92	20.29
Redbreast sunfish	0.00	7.99	638.41	122.81	0.00	0.00	324.58	0.00	0.00	0.00

Appendix T. (Continued)

Species	475.2 [*] (1)	475.7 [*] (7)	476.2 [*] (6)	478.0 [*] (13)	484.7 [*] (1)	492.6 [*] (1)	495.0 [*] (13)	1.2 [†] (1)	2.5 [†] (1)	3.5 [†] (1)
Green sunfish	0.00	2.60	99.91	43.49	2.04	39.29	23.23	30.91	54.17	0.00
Orangespotted sunfish	0.00	0.11	0.00	1.65	0.00	0.00	0.88	0.00	10.42	2.90
Bluegill	642.22	3,472.44	16,436.28	20,688.74	487.76	596.43	10,669.78	2,647.27	4,467.71	3,539.13
Longear sunfish	81.11	484.50	611.94	1,010.82	110.20	167.86	407.30	0.00	0.00	0.00
Redear sunfish	27.78	73.59	3,956.34	2,546.68	2.04	7.14	2,045.98	23.64	32.29	68.12
Hybrid sunfish	0.00	0.64	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00
Smallmouth bass	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00	0.00	0.00
Spotted bass	32.22	182.44	100.19	61.79	151.02	235.71	111.94	45.45	23.96	5.80
Largemouth bass	182.22	112.25	1,138.02	449.34	275.51	578.57	419.02	249.09	360.42	230.43
White crappie	1.11	41.59	20.76	43.01	4.08	3.57	75.42	16.36	120.83	91.30
Black crappie	0.00	1.68	1.70	0.85	0.00	10.71	2.03	0.00	0.00	0.00
Unidentified darter	0.00	0.00	0.00	0.08	0.00	0.00	0.17	0.00	0.00	0.00
Mud darter	0.00	7.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rainbow darter	0.00	4.76	0.94	0.38	0.00	0.00	0.44	0.00	0.00	0.00
Stripetail darter	0.00	0.15	1.11	0.22	0.00	0.00	0.00	0.00	0.00	0.00
Orangethroat darter	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Yellow perch	34.44	21.04	141.50	85.94	6.12	82.14	222.93	0.00	3.12	1.45
Logperch	0.00	35.32	100.09	23.79	0.00	0.00	100.02	0.00	0.00	0.00
Sauger	0.00	0.26	0.34	0.42	0.00	0.00	3.92	3.64	0.00	0.00
Freshwater drum	194.44	349.02	85.10	183.36	177.55	317.86	176.55	192.73	725.00	755.07
Brook silverside	0.00	18.38	371.24	260.38	0.00	0.00	143.84	0.00	0.00	0.00
Mixed & unid minnows	1,168.89	177.06	0.00	267.77	522.45	332.14	211.70	394.55	2,657.29	872.46
TOTAL	9,730.00	10,005.91	38,871.49	36,259.70	2,904.08	6,221.43	23,126.00	4,918.18	13,488.54	17,194.20

Appendix T. (Continued)

Species	505.4 [*] (1)	506.0 [*] (1)	507.3 [*] (1)	508.0 [*] (12)	524.6 [*] (7)
Chestnut lamprey	0.00	0.00	0.00	0.00	0.00
Paddlefish	0.00	0.00	0.00	0.00	1.69
Spotted gar	0.00	0.00	0.00	1.11	18.41
Longnose gar	0.00	0.00	0.00	2.66	4.22
Shortnose gar	0.00	0.00	0.00	0.00	3.29
Skipjack herring	5.56	21.43	14.81	12.21	3.11
Unidentified shad	0.00	0.00	0.00	0.00	34.63
Gizzard shad	2,400.00	978.57	4,192.59	1,727.99	11,517.38
Threadfin shad	12,055.56	250.00	607.41	5,889.68	1,681.90
Mixed shad	0.00	5,125.00	0.00	0.00	0.00
Mooneye	0.00	0.00	3.70	4.46	0.00
Minnow, carp	0.00	0.00	0.00	0.19	0.00
Central stoneroller	0.00	0.00	0.00	0.47	0.00
Goldfish	0.00	0.00	0.00	0.00	0.00
Carp	22.22	0.00	11.11	25.07	33.72
Silver chub	0.00	0.00	0.00	5.38	0.00
Golden shiner	0.00	0.00	0.00	242.65	18.34
Unidentified shiner	0.00	0.00	0.00	0.79	4.44
Emerald shiner	0.00	0.00	0.00	23.75	13.78
Ghost shiner	0.00	0.00	0.00	0.00	0.00
Common shiner	0.00	0.00	0.00	0.37	0.00
Spotfin shiner	0.00	0.00	0.00	0.78	0.49
Mimic shiner	0.00	0.00	0.00	0.19	0.43
Steelcolor shiner	0.00	0.00	0.00	0.00	0.00
Pugnose minnow	0.00	0.00	0.00	0.00	0.00
Striped shiner	0.00	0.00	0.00	0.00	0.00
Unidentified minnow	0.00	0.00	0.00	46.12	0.87
Bluntnose minnow	0.00	0.00	0.00	0.00	0.00
Fathead minnow	0.00	0.00	0.00	0.00	0.00
Bullhead minnow	0.00	0.00	0.00	812.18	17.41
River carpsucker	0.00	0.00	0.00	1.16	0.00
Quillback carpsucker	0.00	0.00	0.00	0.00	0.00
White sucker	0.00	0.00	0.00	0.39	0.00
Northern hogsucker	0.00	0.00	0.00	0.00	0.00
Unidentified buffalo	0.00	32.14	0.00	0.00	0.00
Smallmouth buffalo	72.22	0.00	48.15	14.89	16.88
Bigmouth buffalo	0.00	0.00	0.00	0.00	0.49
Black buffalo	0.00	0.00	0.00	0.19	0.00
Spotted sucker	5.56	0.00	11.11	138.14	15.92
Unidentified redhorse	0.00	0.00	0.00	13.49	0.00
Shorthead redhorse	0.00	0.00	0.00	0.00	0.00
River redhorse	0.00	0.00	0.00	1.61	0.00
Black redhorse	0.00	0.00	0.00	1.15	0.38
Golden redhorse	0.00	7.14	22.22	13.46	2.54

Appendix T. (Continued)

Species	505.4 [*] (1)	506.0 [*] (1)	507.3 [*] (1)	508.0 [*] (12)	524.6 [*] (7)
Blue catfish	0.00	0.00	0.00	2.19	3.06
Black bullhead	0.00	0.00	0.00	0.73	0.00
Yellow bullhead	0.00	0.00	0.00	91.09	0.00
Brown bullhead	0.00	0.00	0.00	0.00	0.00
Channel catfish	16.67	10.71	29.63	37.34	19.57
Flathead catfish	0.00	3.57	7.41	2.86	1.30
Killifish	0.00	0.00	0.00	0.00	0.00
Blackstripe topminnow	0.00	0.00	0.00	10.85	0.00
Blackspotted topminnow	0.00	0.00	0.00	0.00	0.00
Mosquitofish	0.00	0.00	0.00	3.66	17.23
Unidentified temperate bass	0.00	0.00	0.00	0.39	0.00
White bass	38.89	307.14	7.41	6.40	35.40
Yellow bass	0.00	0.00	0.00	52.65	338.52
Rock bass	0.00	0.00	0.00	0.00	0.00
Unidentified sunfish	0.00	0.00	0.00	368.36	0.00
Warmouth	5.56	3.57	29.63	1,173.31	29.09
Redbreast sunfish	0.00	0.00	0.00	166.38	1.30
Green sunfish	0.00	0.00	3.70	8.83	8.56
Orangespotted sunfish	16.67	3.57	7.41	16.19	0.00
Bluegill	1,372.22	832.14	1,133.33	5,894.18	569.38
Longear sunfish	0.00	10.71	0.00	5.11	0.00
Redear sunfish	38.89	42.86	66.67	2,083.41	49.58
Hybrid sunfish	0.00	0.00	0.00	0.15	0.00
Smallmouth bass	0.00	0.00	0.00	0.39	0.00
Spotted bass	111.11	128.57	233.33	114.21	10.05
Largemouth bass	155.56	407.14	359.26	335.04	32.09
White crappie	1,038.89	39.29	111.11	91.91	100.56
Black crappie	0.00	0.00	0.00	1.18	0.00
Unidentified darter	0.00	0.00	0.00	0.19	0.00
Mud darter	0.00	0.00	0.00	0.00	0.00
Rainbow darter	0.00	0.00	0.00	0.00	0.00
Stripetail darter	0.00	0.00	0.00	0.00	0.00
Orangethroat darter	0.00	0.00	0.00	0.00	0.00
Yellow perch	5.56	0.00	0.00	20.69	0.00
Logperch	0.00	0.00	0.00	15.56	0.00
Sauger	0.00	0.00	3.70	4.61	0.00
Freshwater drum	400.00	235.71	788.89	448.29	582.23
Brook silverside	0.00	0.00	0.00	13.47	21.42
Mixed & unid minnows	311.11	525.00	185.19	17.25	0.00
TOTAL	18,072.22	8,964.29	7,877.78	19,967.43	15,209.66

* Sample Location, Tennessee River Mile.

† Sample Location, Hiwassee River Mile.

APPENDIX U

MEAN BIOMASS (KG/HA) OF EACH FISH SPECIES COLLECTED IN
COVE ROTENONE SAMPLES FROM CHICKAMAUGA RESERVOIR, 1970
THROUGH 1982

Appendix U. Mean Biomass (Kg/Ha) of Each Fish Speices Collected in Cove Rotenone Samples from Chickamauga Reservoir, 1970 through 1982, Numbers of Samples at Each Location in Parenthesis

Species	475.2 [*] (1)	475.7 [*] (7)	476.2 [*] (6)	478.0 [*] (13)	484.7 [*] (1)	492.6 [*] (1)	495.0 [*] (13)	1.2 [†] (1)	2.5 [†] (1)	3.5 [†] (1)
Chestnut lamprey	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paddlefish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spotted gar	0.00	0.98	0.37	0.42	0.00	0.00	0.02	0.00	0.00	0.00
Longnose gar	0.33	0.45	0.10	0.04	0.00	0.04	0.05	0.00	0.00	0.00
Shortnose gar	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00
Skipjack herring	0.00	0.30	0.04	0.41	0.00	0.05	0.19	0.96	0.58	0.04
Unidentified shad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gizzard shad	57.77	103.09	196.10	97.40	32.56	90.06	96.38	45.17	35.99	48.37
Threadfin shad	1.35	15.03	0.87	6.54	0.29	3.01	18.44	0.59	4.50	8.90
Mixed shad	0.00	1.20	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Mooneye	0.00	0.01	0.00	0.03	0.00	0.00	0.04	0.04	0.00	0.00
Minnow, carp	0.00	0.01	0.00	0.02	0.00	0.00	0.07	0.00	0.00	0.00
Central stoneroller	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
Goldfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
Carp	0.00	28.77	16.33	17.75	8.52	0.00	14.25	0.67	14.91	2.77
Silver chub	0.00	0.01	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
Golden shiner	0.00	0.15	3.11	1.59	0.00	0.00	1.35	0.00	1.11	1.09
Unidentified shiner	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
Emerald shiner	0.00	0.14	0.82	0.18	0.00	0.00	0.03	0.00	0.00	0.00
Ghost shiner	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Common shiner	0.00	0.00	0.00	0.01	0.00	0.00	0.04	0.00	0.00	0.00
Spotfin shiner	0.00	0.02	0.04	0.18	0.00	0.00	0.07	0.00	0.00	0.00
Mimic shiner	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Steelcolor shiner	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Pugnose minnow	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Striped shiner	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Unidentified minnow	0.00	0.08	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00
Bluntnose minnow	0.00	0.07	0.00	0.11	0.00	0.00	0.17	0.00	0.00	0.00
Fathead minnow	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bullhead minnow	0.00	0.43	0.25	0.93	0.00	0.00	0.53	0.00	0.00	0.00

Appendix U. (Continued)

Species	475.2 [*] (1)	475.7 [*] (7)	476.2 [*] (6)	478.0 [*] (13)	484.7 [*] (1)	492.6 [*] (1)	495.0 [*] (13)	1.2 [†] (1)	2.5 [†] (1)	3.5 [†] (1)
River carpsucker	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Quillback carpsucker	0.00	0.00	0.00	0.00	2.41	0.00	0.39	1.87	0.00	0.00
White sucker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern hogsucker	0.00	0.47	0.11	0.10	0.00	0.00	0.15	0.00	0.00	0.00
Unidentified buffalo	0.00	0.00	0.00	0.00	0.00	6.07	6.21	0.00	0.00	0.00
Smallmouth buffalo	109.46	29.96	3.00	22.37	51.70	0.00	11.93	20.73	39.50	51.22
Bigmouth buffalo	4.26	17.36	0.00	0.00	0.00	0.00	0.00	54.21	0.00	0.00
Black buffalo	0.00	0.38	0.00	0.00	3.15	0.00	0.00	0.00	0.00	0.00
Spotted sucker	0.11	8.41	5.64	7.92	0.00	1.81	5.12	0.11	2.36	0.39
Unidentified redhorse	0.00	0.00	0.00	0.00	0.00	0.00	1.13	5.90	0.00	0.43
Shorthead redhorse	0.00	0.13	0.00	0.00	0.00	0.39	0.03	0.00	0.00	0.00
River redhorse	0.00	0.02	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00
Black redhorse	0.00	0.13	0.00	0.00	0.00	12.54	1.26	0.00	0.00	0.00
Golden redhorse	1.28	1.43	0.13	0.96	0.00	19.99	1.43	0.00	3.20	0.00
Blue catfish	0.00	0.00	0.49	1.09	0.00	0.00	0.31	9.86	7.33	0.00
Black bullhead	0.00	0.00	0.02	0.01	0.00	0.00	0.02	0.00	0.00	0.00
Yellow bullhead	0.00	0.00	0.00	0.03	0.00	0.00	0.11	0.00	0.00	0.00
Brown bullhead	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Channel catfish	0.75	6.15	6.24	8.44	0.00	0.00	13.38	1.02	4.39	12.38
Flathead catfish	1.11	0.27	0.18	0.38	0.46	0.06	1.10	0.65	1.23	1.04
Killifish	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00
Blackstripe topminnow	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Blackspotted topminnow	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Mosquitofish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unidentified temperate bass	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
White bass	0.12	0.01	0.14	0.03	0.02	0.00	0.12	0.00	0.17	0.46
Yellow bass	0.00	0.41	1.97	4.11	0.00	0.00	1.16	0.00	0.00	0.00
Rock bass	0.00	0.00	0.00	0.01	0.19	0.00	0.00	0.00	0.00	0.00
Unidentified sunfish	0.00	0.04	10.39	4.48	0.00	0.00	0.21	0.00	0.00	0.00
Warmouth	0.00	0.35	2.19	1.42	0.00	0.39	2.35	0.15	0.42	0.67

Appendix U. (Continued)

Species	475.2* (1)	475.7* (7)	476.2* (6)	478.0* (13)	484.7* (1)	492.6* (1)	495.0* (13)	1.2† (1)	2.5† (1)	3.5† (1)
Redbreast sunfish	0.00	0.02	0.73	0.17	0.00	0.00	0.61	0.00	0.00	0.00
Green sunfish	0.00	0.03	0.23	0.27	0.01	0.60	0.13	0.63	0.30	0.00
Orangespotted sunfish	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.09	0.02
Bluegill	8.13	21.46	43.52	43.00	4.18	9.98	26.29	9.47	25.44	17.27
Longear sunfish	1.00	3.67	4.21	3.73	1.46	2.18	2.81	0.00	0.00	0.00
Redear sunfish	2.77	4.84	8.64	11.70	0.09	1.07	12.48	1.89	2.10	4.31
Hybrid sunfish	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Smallmouth bass	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spotted bass	0.24	1.52	0.51	0.78	1.10	0.90	0.67	0.16	0.11	0.01
Largemouth bass	4.15	4.65	16.40	11.69	9.38	2.13	7.52	2.35	6.10	8.40
White crappie	0.00	1.43	0.93	1.33	0.68	0.00	1.91	1.17	5.00	4.92
Black crappie	0.00	0.13	0.10	0.03	0.00	1.15	0.31	0.00	0.00	0.00
Unidentified darter	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mud darter	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rainbow darter	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stripetail darter	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Orangethroat darter	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Yellow perch	0.25	0.49	2.18	1.58	0.02	0.33	2.48	0.00	0.10	0.07
Logperch	0.00	0.36	0.64	0.18	0.00	0.00	0.71	0.00	0.00	0.00
Sauger	0.00	0.07	0.02	0.06	0.00	0.00	0.34	1.40	0.00	0.00
Freshwater drum	16.48	16.49	9.40	17.25	17.05	29.22	17.48	10.48	44.93	79.95
Brook silverside	0.00	0.03	0.38	0.33	0.00	0.00	0.17	0.00	0.00	0.00
Mixed & unid minnows	1.17	0.29	0.00	0.58	0.73	0.71	0.26	0.39	2.66	0.87
TOTAL	210.71	272.18	336.46	269.94	133.99	182.67	252.46	169.88	202.54	243.59

Appendix U. (Continued)

Species	505.4* (1)	506.0* (1)	507.3* (1)	508.0* (12)	524.6* (7)
Chestnut lamprey	0.00	0.00	0.00	0.00	0.00
Paddlefish	0.00	0.00	0.00	0.00	0.91
Spotted gar	0.00	0.00	0.00	0.09	10.95
Longnose gar	0.00	0.00	0.00	0.05	0.75
Shortnose gar	0.00	0.00	0.00	0.00	1.72
Skipjack herring	0.04	1.79	1.65	1.12	0.06
Unidentified shad	0.00	0.00	0.00	0.00	0.01
Gizzard shad	214.59	113.91	115.41	126.83	79.89
Threadfin shad	12.62	0.26	0.77	31.01	3.28
Mixed shad	0.00	5.52	0.00	0.00	0.00
Mooneye	0.00	0.00	0.01	0.07	0.00
Minnow, carp	0.00	0.00	0.00	0.00	0.00
Central stoneroller	0.00	0.00	0.00	0.00	0.00
Goldfish	0.00	0.00	0.00	0.00	0.00
Carp	26.23	0.00	17.36	38.38	66.57
Silver chub	0.00	0.00	0.00	0.11	0.00
Golden shiner	0.00	0.00	0.00	2.84	0.04
Unidentified shiner	0.00	0.00	0.00	0.00	0.00
Emerald shiner	0.00	0.00	0.00	0.10	0.02
Ghost shiner	0.00	0.00	0.00	0.00	0.00
Common shiner	0.00	0.00	0.00	0.00	0.00
Spotfin shiner	0.00	0.00	0.00	0.00	0.00
Mimic shiner	0.00	0.00	0.00	0.00	0.00
Steelcolor shiner	0.00	0.00	0.00	0.00	0.00
Pugnose minnow	0.00	0.00	0.00	0.00	0.00
Striped shiner	0.00	0.00	0.00	0.00	0.00
Unidentified minnow	0.00	0.00	0.00	0.06	0.00
Bluntnose minnow	0.00	0.00	0.00	0.00	0.00
Fathead minnow	0.00	0.00	0.00	0.00	0.00
Bullhead minnow	0.00	0.00	0.00	0.92	0.01
River carpsucker	0.00	0.00	0.00	0.07	0.00
Quillback carpsucker	0.00	0.00	0.00	0.00	0.00
White sucker	0.00	0.00	0.00	0.01	0.00
Northern hogsucker	0.00	0.00	0.00	0.00	0.00
Unidentified buffalo	0.00	25.71	0.00	0.00	0.00
Smallmouth buffalo	82.71	0.00	49.01	17.32	29.78
Bigmouth buffalo	0.00	0.00	0.00	0.00	1.35
Black buffalo	0.00	0.00	0.00	0.62	0.00
Spotted sucker	0.02	0.00	0.04	16.36	8.66
Unidentified redhorse	0.00	0.00	0.00	0.19	0.00
Shorthead redhorse	0.00	0.00	0.00	0.00	0.00
River redhorse	0.00	0.00	0.00	0.85	0.00
Black redhorse	0.00	0.00	0.00	0.62	0.27

Appendix U. (Continued)

Species	505.4 [*] (1)	506.0 [*] (1)	507.3 [*] (1)	508.0 [*] (12)	524.6 [*] (7)
Golden redhorse	0.00	5.07	10.92	4.30	1.80
Blue catfish	0.00	0.00	0.00	1.60	0.36
Black bullhead	0.00	0.00	0.00	0.04	0.00
Yellow bullhead	0.00	0.00	0.00	0.68	0.00
Brown bullhead	0.00	0.00	0.00	0.00	0.00
Channel catfish	1.57	0.24	7.20	25.28	6.72
Flathead catfish	0.00	0.00	2.36	1.18	0.75
Killifish	0.00	0.00	0.00	0.00	0.00
Blackstripe topminnow	0.00	0.00	0.00	0.05	0.00
Blackspotted topminnow	0.00	0.00	0.00	0.00	0.00
Mosquitofish	0.00	0.00	0.00	0.01	0.02
Unidentified temperate bass	0.00	0.00	0.00	0.00	0.00
White bass	0.10	1.47	0.03	0.30	0.34
Yellow bass	0.00	0.00	0.00	1.19	2.05
Rock bass	0.00	0.00	0.00	0.00	0.00
Unidentified sunfish	0.00	0.00	0.00	0.15	0.00
Warmouth	0.20	0.06	1.11	3.13	0.22
Redbreast sunfish	0.00	0.00	0.00	0.25	0.03
Green sunfish	0.00	0.00	0.07	0.13	0.11
Orangespotted sunfish	0.19	0.02	0.04	0.05	0.00
Bluegill	23.11	8.94	26.81	29.48	4.60
Longear sunfish	0.00	0.06	0.00	0.15	0.00
Redear sunfish	2.06	1.62	2.74	10.08	1.68
Hybrid sunfish	0.00	0.00	0.00	0.00	0.00
Smallmouth bass	0.00	0.00	0.00	0.00	0.00
Spotted bass	0.17	0.16	0.28	0.37	0.05
Largemouth bass	6.29	9.28	14.28	14.31	2.84
White crappie	29.59	0.61	4.10	4.38	1.81
Black crappie	0.00	0.00	0.00	0.02	0.00
Unidentified darter	0.00	0.00	0.00	0.00	0.00
Mud darter	0.00	0.00	0.00	0.00	0.00
Rainbow darter	0.00	0.00	0.00	0.00	0.00
Stripetail darter	0.00	0.00	0.00	0.00	0.00
Orangethroat darter	0.00	0.00	0.00	0.00	0.00
Yellow perch	0.02	0.00	0.00	0.40	0.00
Logperch	0.00	0.00	0.00	0.10	0.00
Sauger	0.00	0.00	0.79	0.71	0.00
Freshwater drum	31.69	10.75	50.51	29.50	62.63
Brook silverside	0.00	0.00	0.00	0.01	0.02
Mixed & unid minnows	0.29	1.12	0.19	0.06	0.00
TOTAL	431.49	186.60	305.68	365.57	290.30

* Sample location, Tennessee River Mile.

† Sample location, Hiwassee River Mile.

APPENDIX V

PERCENTAGE COMPOSITION (BASED ON MEAN NUMBER/HA) OF FISH SPECIES
COLLECTED IN COVE ROTENONE SAMPLES FROM CHICKAMAUGA
RESERVOIR, 1970 THROUGH 1982

Appendix V. Percentage Composition (Based on Mean Number/Ha) of Fish Species Collected in Cove Rotenone Samples from Chickamauga Reservoir, 1970 through 1982, Number of Samples at Each Location in Parenthesis

Species	475.2* (1)	475.7* (7)	476.2* (6)	478.0* (13)	484.7* (1)	492.6* (1)	495.0* (13)	1.2† (1)	2.5† (1)	3.5† (1)
Chestnut lamprey	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paddlefish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spotted gar	0.00	0.03	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Longnose gar	0.02	0.01	0.01	0.00	0.00	0.23	0.01	0.00	0.00	0.00
Shortnose gar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skipjack herring	0.00	0.02	0.00	0.01	0.00	0.29	0.03	0.22	0.04	0.01
Unidentified shad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gizzard shad	61.47	7.32	6.87	3.79	28.67	9.41	11.67	15.42	3.71	17.01
Threadfin shad	13.22	28.94	0.63	5.56	9.56	46.21	12.68	8.69	31.80	49.46
Mixed shad	0.00	5.58	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00
Mooneye	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00
Minnow, carp	0.00	0.26	0.00	0.03	0.00	0.00	0.26	0.00	0.00	0.00
Central stoneroller	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
Goldfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Carp	0.00	0.14	0.08	0.03	0.14	0.00	0.02	0.04	0.06	0.01
Silver chub	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Golden shiner	0.00	0.21	0.88	0.47	0.00	0.00	1.24	0.00	0.16	0.18
Unidentified shiner	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00
Emerald shiner	0.00	0.66	0.77	0.23	0.00	0.00	0.07	0.00	0.00	0.00
Ghost shiner	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Common shiner	0.00	0.00	0.00	0.01	0.00	0.00	0.06	0.00	0.00	0.00
Spotfin shiner	0.00	0.05	0.09	0.41	0.00	0.00	0.22	0.00	0.00	0.00
Mimic shiner	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Steelcolor shiner	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Pugnose minnow	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Striped shiner	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Unidentified minnow	0.00	0.35	0.00	0.72	0.00	0.00	0.00	0.00	0.00	0.00
Bluntnose minnow	0.00	0.53	0.00	0.33	0.00	0.00	0.72	0.00	0.00	0.00
Fathead minnow	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Appendix V. (Continued)

Species	475.2* (1)	475.7* (7)	476.2* (6)	478.0* (13)	484.7* (1)	492.6* (1)	495.0* (13)	1.2† (1)	2.5† (1)	3.5† (1)
Bullhead minnow	0.00	3.93	0.49	2.75	0.00	0.00	2.20	0.00	0.00	0.00
River carpsucker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Quillback carpsucker	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.04	0.00	0.00
White sucker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern hogsucker	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unidentified buffalo	0.00	0.00	0.00	0.00	0.00	0.06	0.02	0.00	0.00	0.00
Smallmouth buffalo	0.65	0.15	0.00	0.03	1.19	0.00	0.04	0.30	0.38	0.24
Bigmouth buffalo	0.01	0.09	0.00	0.00	0.00	0.00	0.00	0.63	0.00	0.00
Black buffalo	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00
Spotted sucker	0.01	0.32	0.02	0.05	0.00	2.81	0.09	0.04	0.16	0.05
Unidentified redhorse	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.22	0.00	0.01
Shorthead redhorse	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
River redhorse	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Black redhorse	0.00	0.00	0.00	0.00	0.00	0.52	0.02	0.00	0.00	0.00
Golden redhorse	0.06	0.02	0.00	0.00	0.00	1.38	0.02	0.00	0.05	0.00
Blue catfish	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.22	0.42	0.00
Black bullhead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Yellow bullhead	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Brown bullhead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Channel catfish	0.08	0.27	0.02	0.06	0.00	0.00	0.15	0.07	0.13	0.26
Flathead catfish	0.01	0.01	0.01	0.01	0.07	0.29	0.06	0.11	0.02	0.03
Killifish	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00
Blackstripe topminnow	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
Blackspotted topminnow	0.00	0.01	0.00	0.01	0.00	0.00	0.04	0.00	0.00	0.00
Mosquitofish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unidentified temperate bass	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
White bass	0.16	0.02	0.03	0.00	0.28	0.06	0.05	0.00	0.19	0.25
Yellow bass	0.00	0.52	0.16	0.38	0.00	0.00	0.10	0.00	0.00	0.00
Rock bass	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00
Unidentified sunfish	0.00	0.46	27.87	12.85	0.00	0.00	1.78	0.00	0.00	0.00

Appendix V. (Continued)

Species	475.2 [*] (1)	475.7 [*] (7)	476.2 [*] (6)	478.0 [*] (13)	484.7 [*] (1)	492.6 [*] (1)	495.0 [*] (13)	1.2 [†] (1)	2.5 [†] (1)	3.5 [†] (1)
Warmouth	0.00	0.08	1.09	1.03	0.00	0.57	3.44	0.67	0.17	0.12
Redbreast sunfish	0.00	0.08	1.64	0.34	0.00	0.00	1.40	0.00	0.00	0.00
Green sunfish	0.00	0.03	0.26	0.12	0.07	0.63	0.10	0.63	0.40	0.00
Orangespotted sunfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.02
Bluegill	6.60	34.70	42.28	57.06	16.80	9.59	46.14	53.83	33.12	20.58
Longear sunfish	0.83	4.84	1.57	2.79	3.79	2.70	1.76	0.00	0.00	0.00
Redear sunfish	0.29	0.74	10.18	7.02	0.07	0.11	8.85	0.48	0.24	0.40
Hybrid sunfish	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Smallmouth bass	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spotted bass	0.33	1.82	0.26	0.17	5.20	3.79	0.48	0.92	0.18	0.03
Largemouth bass	1.87	1.12	2.93	1.24	9.49	9.30	1.81	5.06	2.67	1.34
White crappie	0.01	0.42	0.05	0.12	0.14	0.06	0.33	0.33	0.90	0.53
Black crappie	0.00	0.02	0.00	0.00	0.00	0.17	0.01	0.00	0.00	0.00
Unidentified darter	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mud darter	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rainbow darter	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stripetail darter	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Orangethroat darter	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Yellow perch	0.35	0.21	0.36	0.24	0.21	1.32	0.96	0.00	0.02	0.01
Logperch	0.00	0.35	0.26	0.07	0.00	0.00	0.43	0.00	0.00	0.00
Sauger	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.07	0.00	0.00
Freshwater drum	2.00	3.49	0.22	0.51	6.11	5.11	0.76	3.92	5.37	4.39
Brook silverside	0.00	0.18	0.96	0.72	0.00	0.00	0.62	0.00	0.00	0.00
Mixed & unid minnows	12.01	1.77	0.00	0.74	17.99	5.34	0.92	8.02	19.70	5.07
TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Appendix V. (Continued)

Species	505.4* (1)	506.0* (1)	507.3* (1)	508.0* (12)	524.6* (7)
Chestnut lamprey	0.00	0.00	0.00	0.00	0.00
Paddlefish	0.00	0.00	0.00	0.00	0.01
Spotted gar	0.00	0.00	0.00	0.01	0.12
Longnose gar	0.00	0.00	0.00	0.01	0.03
Shortnose gar	0.00	0.00	0.00	0.00	0.02
Skipjack herring	0.03	0.24	0.19	0.06	0.02
Unidentified shad	0.00	0.00	0.00	0.00	0.23
Gizzard shad	13.28	10.92	53.22	8.65	75.72
Threadfin shad	66.71	2.79	7.71	29.50	11.06
Mixed shad	0.00	57.17	0.00	0.00	0.00
Mooneye	0.00	0.00	0.05	0.02	0.00
Minnow, carp	0.00	0.00	0.00	0.00	0.00
Central stoneroller	0.00	0.00	0.00	0.00	0.00
Goldfish	0.00	0.00	0.00	0.00	0.00
Carp	0.12	0.00	0.14	0.13	0.22
Silver chub	0.00	0.00	0.00	0.03	0.00
Golden shiner	0.00	0.00	0.00	1.22	0.12
Unidentified shiner	0.00	0.00	0.00	0.00	0.03
Emerald shiner	0.00	0.00	0.00	0.12	0.09
Ghost shiner	0.00	0.00	0.00	0.00	0.00
Common shiner	0.00	0.00	0.00	0.00	0.00
Spotfin shiner	0.00	0.00	0.00	0.00	0.00
Mimic shiner	0.00	0.00	0.00	0.00	0.00
Steelcolor shiner	0.00	0.00	0.00	0.00	0.00
Pugnose minnow	0.00	0.00	0.00	0.00	0.00
Striped shiner	0.00	0.00	0.00	0.00	0.00
Unidentified minnow	0.00	0.00	0.00	0.23	0.01
Bluntnose minnow	0.00	0.00	0.00	0.00	0.00
Fathead minnow	0.00	0.00	0.00	0.00	0.00
Bullhead minnow	0.00	0.00	0.00	4.07	0.11
River carpsucker	0.00	0.00	0.00	0.01	0.00
Quillback carpsucker	0.00	0.00	0.00	0.00	0.00
White sucker	0.00	0.00	0.00	0.00	0.00
Northern hogsucker	0.00	0.00	0.00	0.00	0.00
Unidentified buffalo	0.00	0.36	0.00	0.00	0.00
Smallmouth buffalo	0.40	0.00	0.61	0.07	0.11
Bigmouth buffalo	0.00	0.00	0.00	0.00	0.00
Black buffalo	0.00	0.00	0.00	0.00	0.00
Spotted sucker	0.03	0.00	0.14	0.69	0.10
Unidentified redhorse	0.00	0.00	0.00	0.07	0.00
Shorthead redhorse	0.00	0.00	0.00	0.00	0.00
River redhorse	0.00	0.00	0.00	0.01	0.00
Black redhorse	0.00	0.00	0.00	0.01	0.00

Appendix V. (Continued)

Species	505.4 [*] (1)	506.0 [*] (1)	507.3 [*] (1)	508.0 [*] (12)	524.6 [*] (7)
Golden redhorse	0.00	0.08	0.28	0.07	0.02
Blue catfish	0.00	0.00	0.00	0.01	0.02
Black bullhead	0.00	0.00	0.00	0.00	0.00
Yellow bullhead	0.00	0.00	0.00	0.46	0.00
Brown bullhead	0.00	0.00	0.00	0.00	0.00
Channel catfish	0.09	0.12	0.38	0.19	0.13
Flathead catfish	0.00	0.04	0.09	0.01	0.01
Killifish	0.00	0.00	0.00	0.00	0.00
Blackstripe topminnow	0.00	0.00	0.00	0.05	0.00
Blackspotted topminnow	0.00	0.00	0.00	0.00	0.00
Mosquitofish	0.00	0.00	0.00	0.02	0.11
Unidentified temperate bass	0.00	0.00	0.00	0.00	0.00
White bass	0.22	3.43	0.09	0.03	0.23
Yellow bass	0.00	0.00	0.00	0.26	2.23
Rock bass	0.00	0.00	0.00	0.00	0.00
Unidentified sunfish	0.00	0.00	0.00	1.84	0.00
Warmouth	0.03	0.04	0.38	5.88	0.19
Redbreast sunfish	0.00	0.00	0.00	0.83	0.01
Green sunfish	0.00	0.00	0.05	0.04	0.06
Orangespotted sunfish	0.09	0.04	0.09	0.08	0.00
Bluegill	7.59	9.28	14.39	29.52	3.74
Longear sunfish	0.00	0.12	0.00	0.03	0.00
Redear sunfish	0.22	0.48	0.85	10.43	0.33
Hybrid sunfish	0.00	0.00	0.00	0.00	0.00
Smallmouth bass	0.00	0.00	0.00	0.00	0.00
Spotted bass	0.61	1.43	2.96	0.57	0.07
Largemouth bass	0.86	4.54	4.56	1.68	0.21
White crappie	5.75	0.44	1.41	0.46	0.66
Black crappie	0.00	0.00	0.00	0.01	0.00
Unidentified darter	0.00	0.00	0.00	0.00	0.00
Mud darter	0.00	0.00	0.00	0.00	0.00
Rainbow darter	0.00	0.00	0.00	0.00	0.00
Stripetail darter	0.00	0.00	0.00	0.00	0.00
Orangethroat darter	0.00	0.00	0.00	0.00	0.00
Yellow perch	0.03	0.00	0.00	0.10	0.00
Logperch	0.00	0.00	0.00	0.08	0.00
Sauger	0.00	0.00	0.05	0.02	0.00
Freshwater drum	2.21	2.63	10.01	2.25	3.83
Brook silverside	0.00	0.00	0.00	0.07	0.14
Mixed & unid minnows	1.72	5.86	2.35	0.09	0.00
TOTAL	100	100	100	100	100

* Sample location, Tennessee River Mile.

† Sample location, Hiwassee River Mile.

APPENDIX W

PERCENTAGE OCCURRENCE (FREQUENCY) OF FISH SPECIES COLLECTED
IN COVE ROTENONE SAMPLES FROM CHICKAMAUGA
RESERVOIR, 1970 THROUGH 1982

Appendix W. Percentage Occurrence (Frequency) of Fish Species Collected in Cove Rotenone Samples from Chickamauga Reservoir, 1970 through 1982, Number of Samples at Each Location in Parenthesis

Species	475.2* (1)	475.7* (7)	476.2* (6)	478.0* (13)	484.7* (1)	492.6* (1)	495.0* (13)	1.2† (1)	2.5† (1)	3.5† (1)
Chestnut lamprey	0.00	0.00	0.00	0.00	0.00	0.00	7.69	0.00	0.00	0.00
Paddlefish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spotted gar	0.00	42.86	33.33	23.08	0.00	0.00	23.08	0.00	0.00	0.00
Longnose gar	100.00	57.14	66.67	30.77	0.00	100.00	30.77	0.00	0.00	0.00
Shortnose gar	0.00	0.00	0.00	7.69	0.00	0.00	0.00	0.00	0.00	0.00
Skipjack herring	0.00	57.14	33.33	46.15	0.00	100.00	69.23	100.00	100.00	100.00
Unidentified shad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gizzard shad	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Threadfin shad	100.00	100.00	83.33	100.00	100.00	100.00	84.62	100.00	100.00	100.00
Mixed shad	0.00	14.29	0.00	7.69	0.00	0.00	0.00	0.00	0.00	0.00
Mooneye	0.00	14.29	0.00	7.69	0.00	0.00	15.38	100.00	0.00	0.00
Minnow, carp	0.00	14.29	0.00	15.38	0.00	0.00	23.08	0.00	0.00	0.00
Central stoneroller	0.00	28.57	16.67	30.77	0.00	0.00	46.15	0.00	0.00	0.00
Goldfish	0.00	0.00	0.00	0.00	0.00	0.00	7.69	0.00	100.00	0.00
Carp	0.00	100.00	83.33	69.23	100.00	0.00	76.92	100.00	100.00	100.00
Silver chub	0.00	28.57	0.00	7.69	0.00	0.00	30.77	0.00	0.00	0.00
Golden shiner	0.00	42.86	100.00	61.54	0.00	0.00	53.85	0.00	100.00	100.00
Unidentified shiner	0.00	0.00	0.00	15.38	0.00	0.00	7.69	0.00	0.00	0.00
Emerald shiner	0.00	71.43	83.33	53.85	0.00	0.00	61.54	0.00	0.00	0.00
Ghost shiner	0.00	0.00	16.67	0.00	0.00	0.00	7.69	0.00	0.00	0.00
Common shiner	0.00	0.00	0.00	7.69	0.00	0.00	23.08	0.00	0.00	0.00
Spotfin shiner	0.00	28.57	50.00	61.54	0.00	0.00	53.85	0.00	0.00	0.00
Mimic shiner	0.00	14.29	0.00	23.08	0.00	0.00	7.69	0.00	0.00	0.00
Steelcolor shiner	0.00	0.00	0.00	7.69	0.00	0.00	7.69	0.00	0.00	0.00
Pugnose minnow	0.00	14.29	0.00	0.00	0.00	0.00	15.38	0.00	0.00	0.00
Striped shiner	0.00	0.00	0.00	0.00	0.00	0.00	15.38	0.00	0.00	0.00
Unidentified minnow	0.00	14.29	0.00	7.69	0.00	0.00	0.00	0.00	0.00	0.00
Bluntnose minnow	0.00	28.57	0.00	15.38	0.00	0.00	7.69	0.00	0.00	0.00
Fathead minnow	0.00	0.00	0.00	0.00	0.00	0.00	7.69	0.00	0.00	0.00

Appendix W. (Continued)

Species	475.2* (1)	475.7* (7)	476.2* (6)	478.0* (13)	484.7* (1)	492.6* (1)	495.0* (13)	1.2† (1)	2.5† (1)	3.5† (1)
Bullhead minnow	0.00	71.43	83.33	76.92	0.00	0.00	69.23	0.00	0.00	0.00
River carpsucker	0.00	28.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Quillback carpsucker	0.00	0.00	0.00	0.00	100.00	0.00	7.69	100.00	0.00	0.00
White sucker	0.00	0.00	0.00	0.00	0.00	0.00	7.69	0.00	0.00	0.00
Northern hogsucker	0.00	42.86	33.33	38.46	0.00	0.00	30.77	0.00	0.00	0.00
Unidentified buffalo	0.00	0.00	0.00	0.00	0.00	100.00	7.69	0.00	0.00	0.00
Smallmouth buffalo	100.00	85.71	66.67	69.23	100.00	0.00	69.23	100.00	100.00	100.00
Bigmouth buffalo	100.00	28.57	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00
Black buffalo	0.00	14.29	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00
Spotted sucker	100.00	85.71	100.00	84.62	0.00	100.00	100.00	100.00	100.00	100.00
Unidentified redhorse	0.00	0.00	0.00	0.00	0.00	0.00	30.77	100.00	0.00	100.00
Shorthead redhorse	0.00	14.29	0.00	0.00	0.00	100.00	15.38	0.00	0.00	0.00
River redhorse	0.00	14.29	0.00	7.69	0.00	0.00	7.69	0.00	0.00	0.00
Black redhorse	0.00	14.29	0.00	0.00	0.00	100.00	38.46	0.00	0.00	0.00
Golden redhorse	100.00	85.71	16.67	61.54	0.00	100.00	38.46	0.00	100.00	0.00
Blue catfish	0.00	0.00	16.67	30.77	0.00	0.00	15.38	100.00	100.00	0.00
Black bullhead	0.00	0.00	16.67	7.69	0.00	0.00	7.69	0.00	0.00	0.00
Yellow bullhead	0.00	0.00	0.00	15.38	0.00	0.00	38.46	0.00	0.00	0.00
Brown bullhead	0.00	0.00	16.67	0.00	0.00	0.00	7.69	0.00	0.00	0.00
Channel catfish	100.00	100.00	83.33	100.00	0.00	0.00	100.00	100.00	100.00	100.00
Flathead catfish	100.00	85.71	66.67	69.23	100.00	100.00	100.00	100.00	100.00	100.00
Killifish	0.00	0.00	0.00	0.00	0.00	0.00	7.69	0.00	0.00	0.00
Blackstripe topminnow	0.00	0.00	0.00	0.00	0.00	0.00	15.38	0.00	0.00	0.00
Blackspotted topminnow	0.00	28.57	0.00	15.38	0.00	0.00	61.54	0.00	0.00	0.00
Mosquitofish	0.00	14.29	0.00	0.00	0.00	0.00	7.69	0.00	0.00	0.00
Unidentified temperate bass	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
White bass	100.00	42.86	33.33	15.38	100.00	100.00	38.46	0.00	100.00	100.00
Yellow bass	0.00	85.71	66.67	69.23	0.00	0.00	92.31	0.00	0.00	0.00
Rock bass	0.00	0.00	0.00	7.69	100.00	0.00	0.00	0.00	0.00	0.00
Unidentified sunfish	0.00	14.29	50.00	53.85	0.00	0.00	30.77	0.00	0.00	0.00

Appendix W. (Continued)

Species	475.2 [*] (1)	475.7 [*] (7)	476.2 [*] (6)	478.0 [*] (13)	484.7 [*] (1)	492.6 [*] (1)	495.0 [*] (13)	1.2 [†] (1)	2.5 [†] (1)	3.5 [†] (1)
Warmouth	0.00	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	100.00
Redbreast sunfish	0.00	14.29	33.33	15.38	0.00	0.00	30.77	0.00	0.00	0.00
Green sunfish	0.00	57.14	66.67	84.62	100.00	100.00	69.23	100.00	100.00	0.00
Orangespotted sunfish	0.00	14.29	0.00	30.77	0.00	0.00	30.77	0.00	100.00	100.00
Bluegill	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Longear sunfish	100.00	100.00	100.00	100.00	100.00	100.00	100.00	0.00	0.00	0.00
Redear sunfish	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Hybrid sunfish	0.00	14.29	0.00	0.00	0.00	0.00	7.69	0.00	0.00	0.00
Smallmouth bass	0.00	0.00	0.00	23.08	0.00	0.00	0.00	0.00	0.00	0.00
Spotted bass	100.00	100.00	100.00	92.31	100.00	100.00	92.31	100.00	100.00	100.00
Largemouth bass	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
White crappie	100.00	100.00	100.00	92.31	100.00	100.00	100.00	100.00	100.00	100.00
Black crappie	0.00	28.57	33.33	23.08	0.00	100.00	30.77	0.00	0.00	0.00
Unidentified darter	0.00	0.00	0.00	7.69	0.00	0.00	7.69	0.00	0.00	0.00
Mud darter	0.00	14.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rainbow darter	0.00	14.29	33.33	15.38	0.00	0.00	7.69	0.00	0.00	0.00
Stripetail darter	0.00	14.29	33.33	7.69	0.00	0.00	0.00	0.00	0.00	0.00
Orangethroat darter	0.00	14.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Yellow perch	100.00	100.00	100.00	100.00	100.00	100.00	100.00	0.00	100.00	100.00
Logperch	0.00	85.71	100.00	69.23	0.00	0.00	100.00	0.00	0.00	0.00
Sauger	0.00	28.57	16.67	23.08	0.00	0.00	61.54	100.00	0.00	0.00
Freshwater drum	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Brook silverside	0.00	85.71	100.00	76.92	0.00	0.00	92.31	0.00	0.00	0.00
Mixed & unid minnows	100.00	28.57	0.00	38.46	100.00	100.00	23.08	100.00	100.00	100.00
TOTAL	1,900.00	2,942.86	2,633.33	2,723.08	1,900.00	2,300.00	3,084.62	2,300.00	2,400.00	2,100.00

Appendix W. (Continued)

Species	505.4* (1)	506.0* (1)	507.3* (1)	508.0* (12)	524.6* (7)
Chestnut lamprey	0.00	0.00	0.00	0.00	0.00
Paddlefish	0.00	0.00	0.00	0.00	42.86
Spotted gar	0.00	0.00	0.00	25.00	57.14
Longnose gar	0.00	0.00	0.00	33.33	71.43
Shortnose gar	0.00	0.00	0.00	0.00	42.86
Skipjack herring	100.00	100.00	100.00	50.00	57.14
Unidentified shad	0.00	0.00	0.00	0.00	14.29
Gizzard shad	100.00	100.00	100.00	100.00	100.00
Threadfin shad	100.00	100.00	100.00	83.33	85.71
Mixed shad	0.00	100.00	0.00	0.00	0.00
Mooneye	0.00	0.00	100.00	16.67	0.00
Minnow, carp	0.00	0.00	0.00	8.33	0.00
Central stoneroller	0.00	0.00	0.00	16.67	0.00
Goldfish	0.00	0.00	0.00	0.00	0.00
Carp	100.00	0.00	100.00	100.00	100.00
Silver chub	0.00	0.00	0.00	16.67	0.00
Golden shiner	0.00	0.00	0.00	100.00	85.71
Unidentified shiner	0.00	0.00	0.00	8.33	28.57
Emerald shiner	0.00	0.00	0.00	50.00	57.14
Ghost shiner	0.00	0.00	0.00	0.00	0.00
Common shiner	0.00	0.00	0.00	16.67	0.00
Spotfin shiner	0.00	0.00	0.00	16.67	14.29
Mimic shiner	0.00	0.00	0.00	8.33	14.29
Steelcolor shiner	0.00	0.00	0.00	0.00	0.00
Pugnose minnow	0.00	0.00	0.00	0.00	0.00
Striped shiner	0.00	0.00	0.00	0.00	0.00
Unidentified minnow	0.00	0.00	0.00	8.33	14.29
Bluntnose minnow	0.00	0.00	0.00	0.00	0.00
Fathead minnow	0.00	0.00	0.00	0.00	0.00
Bullhead minnow	0.00	0.00	0.00	83.33	71.43
River carpsucker	0.00	0.00	0.00	8.33	0.00
Quillback carpsucker	0.00	0.00	0.00	0.00	0.00
White sucker	0.00	0.00	0.00	8.33	0.00
Northern hogsucker	0.00	0.00	0.00	0.00	0.00
Unidentified buffalo	0.00	100.00	0.00	0.00	0.00
Smallmouth buffalo	100.00	0.00	100.00	66.67	57.14
Bigmouth buffalo	0.00	0.00	0.00	0.00	14.29
Black buffalo	0.00	0.00	0.00	8.33	0.00
Spotted sucker	100.00	0.00	100.00	100.00	85.71
Unidentified redhorse	0.00	0.00	0.00	8.33	0.00
Shorthead redhorse	0.00	0.00	0.00	0.00	0.00
River redhorse	0.00	0.00	0.00	8.33	0.00

Appendix W. (Continued)

Species	505.4 [*] (1)	506.0 [*] (1)	507.3 [*] (1)	508.0 [*] (12)	524.6 [*] (7)
Black redhorse	0.00	0.00	0.00	25.00	14.29
Golden redhorse	0.00	100.00	100.00	66.67	28.57
Blue catfish	0.00	0.00	0.00	16.67	28.57
Black bullhead	0.00	0.00	0.00	25.00	0.00
Yellow bullhead	0.00	0.00	0.00	41.67	0.00
Brown bullhead	0.00	0.00	0.00	0.00	0.00
Channel catfish	100.00	100.00	100.00	91.67	100.00
Flathead catfish	0.00	100.00	100.00	75.00	28.57
Killifish	0.00	0.00	0.00	0.00	0.00
Blackstripe topminnow	0.00	0.00	0.00	8.33	0.00
Blackspotted topminnow	0.00	0.00	0.00	0.00	0.00
Mosquitofish	0.00	0.00	0.00	33.33	57.14
Unidentified temperate bass	0.00	0.00	0.00	8.33	0.00
White bass	100.00	100.00	100.00	50.00	57.14
Yellow bass	0.00	0.00	0.00	91.67	100.00
Rock bass	0.00	0.00	0.00	0.00	0.00
Unidentified sunfish	0.00	0.00	0.00	16.67	0.00
Warmouth	100.00	100.00	100.00	100.00	71.43
Redbreast sunfish	0.00	0.00	0.00	41.67	14.29
Green sunfish	0.00	0.00	100.00	83.33	57.14
Orangespotted sunfish	100.00	100.00	100.00	41.67	0.00
Bluegill	100.00	100.00	100.00	100.00	100.00
Longear sunfish	0.00	100.00	0.00	50.00	0.00
Redear sunfish	100.00	100.00	100.00	100.00	71.43
Hybrid sunfish	0.00	0.00	0.00	8.33	0.00
Smallmouth bass	0.00	0.00	0.00	8.33	0.00
Spotted bass	100.00	100.00	100.00	91.67	42.86
Largemouth bass	100.00	100.00	100.00	100.00	85.71
White crappie	100.00	100.00	100.00	100.00	100.00
Black crappie	0.00	0.00	0.00	16.67	0.00
Unidentified darter	0.00	0.00	0.00	8.33	0.00
Mud darter	0.00	0.00	0.00	0.00	0.00
Rainbow darter	0.00	0.00	0.00	0.00	0.00
Stripetail darter	0.00	0.00	0.00	0.00	0.00
Orangethroat darter	0.00	0.00	0.00	0.00	0.00
Yellow perch	100.00	0.00	0.00	66.67	0.00
Logperch	0.00	0.00	0.00	58.33	0.00
Sauger	0.00	0.00	100.00	58.33	0.00
Freshwater drum	100.00	100.00	100.00	100.00	100.00
Brook silverside	0.00	0.00	0.00	91.67	42.86
Mixed & unid minnows	100.00	100.00	100.00	8.33	0.00
TOTAL	1,800.00	1,900.00	2,200.00	2,733.33	2,114.29

* Sample location, Tennessee River Mile.

† Sample location, Hiwassee River Mile.

APPENDIX X

MEAN ANNUAL NUMBER PER HECTARE OF FISH SPECIES COLLECTED
IN COVE ROTENONE SAMPLES FROM CHICKAMAUGA RESERVOIR,
1970 THROUGH 1982

Appendix X. Mean Annual Number (Number/Ha) of Each Fish Species Collected in Cove Rotenone Samples from Chickamauga Reservoir, 1970 through 1982, Number of Samples Each Year in Parenthesis

Species	1970 (12)	1971 (4)	1972 (4)	1973 (4)	1974 (4)	1975 (4)	1976 (5)
Chestnut lamprey	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paddlefish	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spotted gar	1.69	0.27	0.00	0.20	0.46	1.19	12.12
Longnose gar	1.70	0.00	0.40	0.20	0.40	0.26	0.43
Shortnose gar	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skipjack herring	8.89	0.00	13.75	25.50	6.98	2.39	3.50
Unidentified shad	0.00	0.00	0.00	0.00	0.00	0.00	48.48
Gizzard shad	1,775.08	890.94	836.87	1,035.63	917.56	1,055.64	1,985.21
Threadfin shad	2,732.99	3,351.72	8,146.51	7,254.21	6,919.78	4,029.94	3,401.95
Mixed shad	766.72	0.00	0.00	0.00	0.00	0.00	0.00
Mooneye	0.80	0.00	0.00	0.85	0.27	0.00	0.36
Minnow, carp	0.00	0.00	0.00	233.20	0.00	20.43	0.00
Central stoneroller	0.00	0.00	0.00	0.46	0.27	0.00	1.49
Goldfish	0.09	0.00	0.00	0.00	0.00	0.00	0.00
Carp	5.77	27.66	14.66	21.49	8.79	12.65	22.37
Silver chub	0.00	0.00	0.00	0.00	2.86	3.79	14.90
Golden shiner	4.36	0.58	6.98	13.26	5.81	12.25	87.29
Unidentified shiner	0.00	0.00	0.00	0.77	0.00	48.06	1.21
Emerald shiner	0.00	0.00	72.46	132.95	4.33	54.04	80.75
Ghost shiner	0.00	0.00	0.00	0.00	2.42	0.00	0.00
Common shiner	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spotfin shiner	0.00	0.00	0.00	6.21	3.63	11.84	212.04
Mimic shiner	0.00	0.00	0.00	0.00	0.00	0.00	14.66
Steelcolor shiner	0.00	0.00	0.00	0.00	0.00	0.00	9.20
Pugnose minnow	0.00	0.00	0.00	0.00	0.00	0.91	0.00
Striped shiner	0.00	0.00	0.00	0.00	5.91	1.61	0.00
Unidentified minnow	0.00	0.00	0.00	1,052.00	0.00	0.00	0.00
Bluntnose minnow	0.00	0.00	1,011.66	0.00	0.00	0.00	0.65
Fathead minnow	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Appendix X. (Continued)

Species	1970 (12)	1971 (4)	1972 (4)	1973 (4)	1974 (4)	1975 (4)	1976 (5)
Bullhead minnow	0.00	1.05	72.67	0.65	734.76	3,397.45	1,974.17
River carpsucker	0.00	0.00	0.20	0.20	0.00	0.00	2.79
Quillback carpsucker	0.73	0.00	0.00	0.00	0.00	0.00	0.00
White sucker	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern hogsucker	0.00	0.54	0.99	0.79	0.00	0.26	2.07
Unidentified buffalo	7.21	0.00	0.00	0.00	0.00	0.00	0.00
Smallmouth buffalo	28.28	36.63	37.69	24.34	6.40	8.96	13.02
Bigmouth buffalo	8.01	0.00	0.00	0.00	0.00	0.19	0.00
Black buffalo	0.17	0.78	0.00	0.00	0.00	0.00	0.00
Spotted sucker	19.17	29.92	59.85	187.14	88.97	41.42	53.55
Unidentified redhorse	1.03	4.30	2.69	2.15	0.00	42.90	0.00
Shorthead redhorse	0.30	0.20	0.00	0.54	0.00	0.00	0.00
River redhorse	0.00	0.00	0.74	0.00	0.26	0.00	0.00
Black redhorse	4.18	0.00	2.55	0.00	0.00	0.00	6.47
Golden redhorse	12.13	12.28	5.19	5.30	13.73	1.51	3.50
Blue catfish	5.68	0.00	3.75	0.52	0.00	1.80	3.03
Black bullhead	0.00	0.00	0.58	0.00	0.00	0.00	0.00
Yellow bullhead	0.00	0.00	0.00	0.00	0.00	0.26	0.00
Brown bullhead	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Channel catfish	19.07	33.91	36.57	42.98	12.14	13.69	25.56
Flathead catfish	5.30	5.27	3.49	5.91	3.14	3.20	2.70
Killifish	0.00	0.00	0.00	154.57	0.00	0.00	0.00
Blackstripe topminnow	0.00	0.00	32.56	0.00	0.00	0.00	14.47
Blackspotted topminnow	0.00	0.00	0.00	0.20	4.21	1.08	6.81
Mosquitofish	0.00	0.00	1.74	2.33	0.00	0.00	16.85
Unidentified temperate bass	0.00	0.00	0.00	0.00	0.00	0.00	0.00
White bass	47.42	4.07	3.57	16.42	3.46	0.27	5.72
Yellow bass	0.00	1.18	22.70	21.30	8.55	33.39	60.67
Rock bass	0.17	0.00	0.00	4.90	0.00	0.00	0.00
Unidentified sunfish	0.00	0.00	0.00	0.27	0.00	6.73	78.36
Warmouth	13.92	48.27	55.18	213.51	13.68	45.77	72.57

Appendix X. (Continued)

Species	1970 (12)	1971 (4)	1972 (4)	1973 (4)	1974 (4)	1975 (4)	1976 (5)
Redbreast sunfish	0.00	0.00	0.00	0.00	0.00	0.00	17.90
Green sunfish	12.73	8.75	5.17	22.38	2.50	0.60	2.61
Orangespotted sunfish	3.41	5.70	10.17	35.27	0.58	0.26	0.00
Bluegill	1,506.60	2,110.00	2,962.87	2,775.94	1,849.74	4,419.62	6,674.38
Longear sunfish	74.21	186.37	254.34	374.69	398.92	537.07	1,061.16
Redear sunfish	40.97	139.14	149.09	694.98	190.86	240.66	344.09
Hybrid sunfish	0.00	0.00	0.00	0.00	0.00	1.13	0.00
Smallmouth bass	0.00	0.00	0.00	0.00	0.00	0.00	0.36
Spotted bass	151.86	86.65	123.28	55.87	82.34	76.91	135.17
Largemouth bass	295.09	121.20	96.68	162.46	67.08	106.74	86.92
White crappie	126.66	39.54	55.68	55.90	9.88	13.25	48.88
Black crappie	0.89	0.00	2.18	0.00	0.00	0.75	0.00
Unidentified darter	0.00	0.00	0.58	0.00	0.00	0.00	0.00
Unidentified darter	0.00	0.00	0.00	0.00	0.00	0.80	0.00
Mud darter	0.00	0.00	12.90	0.00	0.00	0.00	0.00
Rainbow darter	0.00	0.00	0.00	0.00	0.77	0.00	7.02
Stripetail darter	0.00	0.00	0.00	0.00	0.00	0.00	0.22
Orangethroat darter	0.00	0.00	0.00	0.00	0.00	0.75	0.00
Yellow perch	16.94	33.03	32.25	23.41	8.30	4.36	32.19
Logperch	0.27	1.05	45.25	94.99	23.13	19.70	47.79
Sauger	0.75	0.00	1.61	5.40	2.50	1.92	3.39
Freshwater drum	417.99	269.77	586.05	661.45	254.72	139.26	323.34
Brook silverside	0.00	1.05	14.78	184.75	12.57	73.02	216.55
Mixed & unid minnows	699.40	1,152.54	400.06	11.08	0.26	0.00	0.00
TOTAL	8,818.64	8,604.35	15,198.95	15,619.49	11,672.90	14,490.65	17,240.91

Appendix X. (Continued)

Species	1977 (5)	1978 (5)	1979 (5)	1980 (5)	1981 (5)	1982 (5)
Chestnut lamprey	0.00	0.00	0.00	0.00	0.43	0.00
Paddlefish	1.21	0.00	0.53	0.00	0.63	0.00
Spotted gar	2.89	0.43	14.18	0.42	8.43	0.00
Longnose gar	1.21	5.30	3.51	4.77	1.74	3.12
Shortnose gar	1.82	0.00	0.47	0.00	1.88	0.91
Skipjack herring	5.57	0.00	0.00	2.77	0.00	8.07
Unidentified shad	0.00	0.00	0.00	0.00	0.00	0.00
Gizzard shad	9,552.49	4,071.96	2,369.73	1,456.32	1,991.61	9,443.80
Threadfin shad	1,566.42	53.10	364.06	448.09	3,294.25	370.40
Mixed shad	0.00	0.00	0.00	0.00	0.00	0.00
Mooneye	10.23	0.00	0.00	0.00	0.00	0.00
Minnow, carp	23.55	0.00	0.00	0.00	0.00	0.00
Central stoneroller	2.74	7.64	10.00	1.92	0.00	0.43
Goldfish	0.00	0.00	0.38	0.00	0.00	0.00
Carp	14.26	9.46	17.47	12.49	42.35	12.41
Silver chub	0.00	1.22	0.00	0.00	0.00	0.00
Golden shiner	363.21	229.84	352.64	661.97	337.37	173.11
Unidentified shiner	0.00	0.00	0.00	0.00	0.00	5.00
Emerald shiner	191.63	125.12	12.04	1.87	1.78	161.84
Ghost shiner	0.00	0.00	0.00	0.00	0.00	0.95
Common shiner	46.81	0.00	1.23	0.69	0.00	0.43
Spotfin shiner	114.59	24.75	1.40	0.00	13.76	187.77
Mimic shiner	1.64	1.38	0.00	0.00	0.00	0.00
Steelcolor shiner	0.00	0.00	0.00	0.00	0.00	0.00
Pugnose minnow	0.00	0.00	3.85	0.00	0.00	0.00
Striped shiner	0.00	0.00	0.00	0.00	0.00	0.00
Unidentified minnow	1.21	0.00	0.00	0.00	0.00	0.00
Bluntnose minnow	0.00	0.00	0.00	0.00	7.54	0.00
Fathead minnow	0.00	0.00	0.38	0.00	0.00	0.00

Appendix X. (Continued)

Species	1977 (5)	1978 (5)	1979 (5)	1980 (5)	1981 (5)	1982 (5)
Bullhead minnow	418.03	148.19	118.98	65.01	20.46	554.76
River carpsucker	0.00	0.00	0.00	0.00	0.00	0.00
Quillback carpsucker	0.00	0.00	0.00	0.00	0.00	0.00
White sucker	1.44	0.00	0.00	0.00	0.00	0.00
Northern hogsucker	1.03	0.34	1.20	0.31	0.00	0.00
Unidentified buffalo	0.00	0.00	0.00	0.00	0.00	0.00
Smallmouth buffalo	11.64	0.35	3.31	1.97	2.01	7.31
Bigmouth buffalo	0.00	0.69	0.00	0.00	0.00	0.00
Black buffalo	0.00	0.00	0.00	0.00	0.00	0.00
Spotted sucker	44.26	26.33	26.23	14.01	12.47	6.70
Unidentified redhorse	0.00	0.00	0.00	0.00	0.00	0.00
Shorthead redhorse	2.56	0.00	0.00	0.00	0.00	0.00
River redhorse	0.00	3.86	0.00	0.00	0.00	0.00
Black redhorse	1.03	0.00	0.53	0.34	0.00	0.43
Golden redhorse	12.16	0.69	1.76	1.09	0.83	0.00
Blue catfish	0.00	3.33	0.00	5.59	0.00	0.00
Black bullhead	0.00	0.00	2.69	0.00	4.29	0.87
Yellow bullhead	0.00	1.57	7.34	19.51	19.55	179.13
Brown bullhead	0.00	0.00	0.00	0.34	0.00	0.48
Channel catfish	19.44	15.18	24.80	14.65	77.60	7.12
Flathead catfish	5.70	4.08	1.89	0.34	21.23	1.74
Killifish	0.00	0.00	0.00	0.00	0.00	0.00
Blackstripe topminnow	0.00	0.00	0.00	0.00	1.30	0.00
Blackspotted topminnow	7.25	1.65	7.31	0.69	0.00	0.87
Mosquitofish	0.61	0.00	1.58	10.42	0.42	0.43
Unidentified temperate bass	0.00	0.00	0.93	0.00	0.00	0.00
White bass	38.27	11.03	3.16	11.25	0.00	2.38
Yellow bass	247.91	115.59	4.61	127.85	267.37	276.05
Rock bass	0.00	0.00	0.00	0.00	0.00	0.00
Unidentified sunfish	2.29	0.34	15.81	6.77	23,015.23	4,014.81
Warmouth	249.60	348.87	896.53	1,304.00	1,779.88	1,458.55

Appendix X. (Continued)

Species	1977 (5)	1978 (5)	1979 (5)	1980 (5)	1981 (5)	1982 (5)
Redbreast sunfish	1.82	16.79	0.47	0.00	92.17	2,212.50
Green sunfish	9.01	3.72	29.03	19.73	31.27	198.78
Orangespotted sunfish	0.00	0.00	1.78	2.21	0.00	0.00
Bluegill	19,668.26	15,974.88	14,288.25	27,264.54	14,058.54	11,364.68
Longear sunfish	589.96	274.31	1,130.45	369.40	91.75	89.72
Redear sunfish	979.08	464.89	1,160.45	2,712.38	10,865.80	4,166.23
Hybrid sunfish	0.00	0.35	0.38	0.00	0.00	0.00
Smallmouth bass	1.14	0.00	0.93	0.31	0.00	0.00
Spotted bass	41.84	62.78	38.77	6.39	3.22	316.28
Largemouth bass	399.64	581.58	834.42	976.84	715.53	442.69
White crappie	90.75	155.50	111.67	30.59	30.16	126.79
Black crappie	3.08	0.00	2.13	4.09	3.09	0.00
Unidentified darter	0.00	0.00	0.00	0.00	0.00	0.00
Unidentified darter	0.00	0.00	0.00	0.00	0.00	0.00
Mud darter	0.00	0.00	0.00	0.00	0.00	0.00
Rainbow darter	0.82	0.00	1.15	0.31	0.00	0.00
Stripetail darter	0.98	0.00	0.00	0.92	0.00	0.00
Orangethroat darter	0.00	0.00	0.00	0.00	0.00	0.00
Yellow perch	147.65	328.31	70.25	192.76	120.50	65.12
Logperch	161.67	75.13	16.14	7.46	11.04	61.62
Sauger	6.93	1.48	1.86	0.00	0.00	0.00
Freshwater drum	306.90	156.54	175.47	146.50	310.97	223.10
Brook silverside	352.35	119.40	85.39	70.17	125.31	386.39
Mixed & unid minnows	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	35,726.55	23,428.00	22,219.51	35,980.06	57,383.74	36,533.77

APPENDIX Y

MEAN ANNUAL BIOMASS (KG/HA) OF EACH FISH SPECIES
COLLECTED IN COVE ROTENONE SAMPLES
FROM CHICKAMAUGA RESERVOIR
1970 THROUGH 1982

Appendix Y. Mean Annual Biomass (kg/ha) of Each Fish Species Collected In Cove Rotenone Samples from Chickamauga Reservoir, 1970 through 1982, Number of Samples Each Year in Parenthesis

Species	1970 (12)	1971 (4)	1972 (4)	1973 (4)	1974 (4)	1975 (4)	1976 (5)
Chestnut lamprey	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paddlefish	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spotted gar	0.52	0.01	0.00	0.02	0.15	0.10	7.41
Longnose gar	0.04	0.00	0.71	0.01	0.05	0.04	0.02
Shortnose gar	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skipjack herring	0.44	0.00	1.23	1.47	1.31	0.41	0.60
Unidentified shad	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Gizzard shad	77.73	67.78	119.53	127.42	107.69	92.15	115.45
Threadfin shad	2.95	7.19	43.18	50.72	28.16	27.12	11.75
Mixed shad	1.18	0.00	0.00	0.00	0.00	0.00	0.00
Mooneye	0.01	0.00	0.00	0.08	0.06	0.00	0.08
Minnow, carp	0.00	0.00	0.00	0.27	0.00	0.02	0.00
Central stoneroller	0.00	0.00	0.00	0.00	0.00	0.00	0.02
Goldfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carp	7.09	53.89	31.59	48.42	20.27	28.93	46.77
Silver chub	0.00	0.00	0.00	0.00	0.01	0.02	0.32
Golden shiner	0.18	0.00	0.16	0.73	0.27	0.15	1.46
Unidentified shiner	0.00	0.00	0.00	0.00	0.00	0.06	0.00
Emerald shiner	0.00	0.00	0.18	0.27	0.01	0.14	0.21
Ghost shiner	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Common shiner	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spotfin shiner	0.00	0.00	0.00	0.03	0.01	0.03	0.23
Mimic shiner	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Steelcolor shiner	0.00	0.00	0.00	0.00	0.00	0.00	0.02
Pugnose minnow	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Striped shiner	0.00	0.00	0.00	0.00	0.02	0.00	0.00
Unidentified minnow	0.00	0.00	0.00	1.02	0.00	0.00	0.00
Bluntnose minnow	0.00	0.00	1.02	0.00	0.00	0.00	0.00
Fathead minnow	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Appendix Y. (Continued)

Species	1970 (12)	1971 (4)	1972 (4)	1973 (4)	1974 (4)	1975 (4)	1976 (5)
Bullhead minnow	0.00	0.00	0.15	0.00	0.81	3.72	1.75
River carpsucker	0.00	0.00	0.23	0.39	0.00	0.00	0.18
Quillback carpsucker	0.78	0.00	0.00	0.00	0.00	0.00	0.00
White sucker	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northern hogsucker	0.00	0.03	0.25	0.23	0.00	0.03	0.54
Unidentified buffalo	9.37	0.00	0.00	0.00	0.00	0.00	0.00
Smallmouth buffalo	35.64	71.15	43.14	41.39	12.52	19.17	28.94
Bigmouth buffalo	14.63	0.00	0.00	0.00	0.00	1.12	0.00
Black buffalo	0.26	2.51	0.00	0.00	0.00	0.00	0.00
Spotted sucker	0.40	3.06	7.82	10.32	16.96	10.42	17.96
Unidentified redhorse	0.53	1.75	1.48	0.42	0.00	0.60	0.00
Shorthead redhorse	0.03	0.23	0.00	0.05	0.00	0.00	0.00
River redhorse	0.00	0.00	0.18	0.00	0.01	0.00	0.00
Black redhorse	1.53	0.00	0.99	0.00	0.00	0.00	2.19
Golden redhorse	3.77	3.96	2.96	3.45	4.78	0.29	2.16
Blue catfish	1.43	0.00	2.32	0.04	0.00	0.00	0.01
Black bullhead	0.00	0.00	0.03	0.00	0.00	0.00	0.00
Yellow bullhead	0.00	0.00	0.00	0.00	0.00	0.10	0.00
Brown bullhead	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Channel catfish	2.98	10.76	8.12	10.36	4.12	4.25	12.43
Flathead catfish	0.60	0.53	1.06	2.26	1.31	0.60	0.81
Killifish	0.00	0.00	0.00	0.20	0.00	0.00	0.00
Blackstripe topminnow	0.00	0.00	0.16	0.00	0.00	0.00	0.02
Blackspotted topminnow	0.00	0.00	0.00	0.00	0.01	0.00	0.01
Mosquitofish	0.00	0.00	0.01	0.00	0.00	0.00	0.02
Unidentified temperate bass	0.00	0.00	0.00	0.00	0.00	0.00	0.00
White bass	0.21	0.08	0.08	0.44	0.20	0.06	0.24
Yellow bass	0.00	0.02	0.23	0.47	0.25	1.54	1.26
Rock bass	0.02	0.00	0.00	0.03	0.00	0.00	0.00
Unidentified sunfish	0.00	0.00	0.00	0.00	0.00	0.01	0.06
Warmouth	0.30	0.32	0.66	2.00	0.16	0.41	0.74

Appendix Y. (Continued)

Species	1970 (12)	1971 (4)	1972 (4)	1973 (4)	1974 (4)	1975 (4)	1976 (5)
Redbreast sunfish	0.00	0.00	0.00	0.00	0.00	0.00	0.06
Green sunfish	0.16	0.09	0.10	0.19	0.03	0.00	0.01
Orangespotted sunfish	0.03	0.01	0.03	0.13	0.00	0.00	0.00
Bluegill	13.01	18.70	32.30	25.91	12.36	14.97	28.09
Longear sunfish	1.07	2.03	2.60	2.19	1.84	1.65	4.53
Redear sunfish	2.11	5.42	8.30	9.88	8.37	7.79	11.28
Hybrid sunfish	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Smallmouth bass	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Spotted bass	0.47	0.90	1.10	0.64	1.42	0.56	1.03
Largemouth bass	5.63	8.90	9.18	12.01	6.76	8.23	7.41
White crappie	4.02	4.23	3.11	3.70	1.22	1.35	1.55
Black crappie	0.10	0.00	0.10	0.00	0.00	0.13	0.00
Unidentified darter	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unidentified darter	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mud darter	0.00	0.00	0.15	0.00	0.00	0.00	0.00
Rainbow darter	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Stripetail darter	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Orangethroat darter	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Yellow perch	0.10	0.57	0.57	0.85	0.44	0.09	0.49
Logperch	0.00	0.00	0.59	0.86	0.31	0.17	0.36
Sauger	0.23	0.00	0.19	0.82	0.28	0.26	0.78
Freshwater drum	29.48	17.54	38.88	39.21	18.22	12.35	26.92
Brook silverside	0.00	0.00	0.03	0.25	0.02	0.14	0.24
Mixed & unid minnows	0.85	1.58	0.52	0.01	0.76	0.00	0.00
TOTAL	219.91	283.26	365.23	399.16	251.13	239.21	336.43

Appendix Y. (Continued)

Species	1977 (5)	1978 (5)	1979 (5)	1980 (5)	1981 (5)	1982 (5)
Chestnut lamprey	0.00	0.00	0.00	0.00	0.01	0.00
Paddlefish	0.86	0.00	0.26	0.00	0.14	0.00
Spotted gar	1.22	0.03	7.65	0.38	0.32	0.00
Longnose gar	0.25	0.29	0.47	0.19	0.08	0.20
Shortnose gar	1.07	0.00	0.09	0.00	1.14	0.19
Skipjack herring	0.39	0.00	0.00	0.04	0.00	0.21
Unidentified shad	0.00	0.00	0.00	0.00	0.00	0.00
Gizzard shad	157.17	122.92	92.80	37.36	166.14	160.42
Threadfin shad	17.31	0.34	0.81	0.79	8.29	1.03
Mixed shad	0.00	0.00	0.00	0.00	0.00	0.00
Mooneye	0.17	0.00	0.00	0.00	0.00	0.00
Minnow, carp	0.01	0.00	0.00	0.00	0.00	0.00
Central stoneroller	0.01	0.01	0.03	0.01	0.00	0.00
Goldfish	0.00	0.00	0.00	0.00	0.00	0.00
Carp	31.39	14.86	38.04	24.18	14.57	9.16
Silver chub	0.00	0.01	0.00	0.00	0.00	0.00
Golden shiner	2.05	1.70	3.43	2.11	5.47	1.18
Unidentified shiner	0.00	0.00	0.00	0.00	0.00	0.00
Emerald shiner	0.26	0.69	0.06	0.01	0.00	0.29
Ghost shiner	0.00	0.00	0.00	0.00	0.00	0.00
Common shiner	0.12	0.00	0.00	0.01	0.00	0.00
Spotfin shiner	0.19	0.03	0.00	0.00	0.02	0.22
Mimic shiner	0.00	0.00	0.00	0.00	0.00	0.00
Steelcolor shiner	0.00	0.00	0.00	0.00	0.00	0.00
Pugnose minnow	0.00	0.00	0.00	0.00	0.00	0.00
Striped shiner	0.00	0.00	0.00	0.00	0.00	0.00
Unidentified minnow	0.00	0.00	0.00	0.00	0.00	0.00
Bluntnose minnow	0.00	0.00	0.00	0.00	0.02	0.00

Appendix Y. (Continued)

Species	1977 (5)	1978 (5)	1979 (5)	1980 (5)	1981 (5)	1982 (5)
Fathead minnow	0.00	0.00	0.00	0.00	0.00	0.00
Bullhead minnow	0.67	0.14	0.09	0.09	0.01	0.41
River carpsucker	0.00	0.00	0.00	0.00	0.00	0.00
Quillback carpsucker	0.00	0.00	0.00	0.00	0.00	0.00
White sucker	0.04	0.00	0.00	0.00	0.00	0.00
Northern hogsucker	0.19	0.04	0.11	0.13	0.00	0.00
Unidentified buffalo	0.00	0.00	0.00	0.00	0.00	0.00
Smallmouth buffalo	10.82	1.84	4.57	3.35	2.90	11.00
Bigmouth buffalo	0.00	1.90	0.00	0.00	0.00	0.00
Black buffalo	0.00	0.00	0.00	0.00	0.00	0.00
Spotted sucker	12.08	8.21	6.60	7.31	9.34	3.50
Unidentified redhorse	0.00	0.00	0.00	0.00	0.00	0.00
Shorthead redhorse	0.05	0.00	0.00	0.00	0.00	0.00
River redhorse	0.00	2.05	0.00	0.00	0.00	0.00
Black redhorse	0.32	0.00	0.38	0.29	0.00	0.17
Golden redhorse	2.27	0.47	1.39	0.81	0.82	0.00
Blue catfish	0.00	2.16	0.00	4.52	0.00	0.00
Black bullhead	0.00	0.00	0.05	0.00	0.10	0.00
Yellow bullhead	0.00	0.01	0.12	0.22	0.56	1.03
Brown bullhead	0.00	0.00	0.00	0.01	0.00	0.05
Channel catfish	7.40	4.18	14.24	7.73	59.17	6.01
Flathead catfish	0.83	0.58	0.55	0.00	0.26	0.63
Killifish	0.00	0.00	0.00	0.00	0.00	0.00
Blackstripe topminnow	0.00	0.00	0.00	0.00	0.00	0.00
Blackspotted topminnow	0.00	0.00	0.01	0.00	0.00	0.00
Mosquitofish	0.00	0.00	0.00	0.01	0.00	0.00
Unidentified temperate bass	0.00	0.00	0.00	0.00	0.00	0.00
White bass	0.54	0.03	0.05	0.05	0.00	0.14
Yellow bass	1.80	1.06	0.13	1.13	10.11	4.86
Rock bass	0.00	0.00	0.00	0.00	0.00	0.00
Unidentified sunfish	0.00	0.00	0.02	0.01	23.02	1.98

Appendix Y. (Continued)

Species	1977 (5)	1978 (5)	1979 (5)	1980 (5)	1981 (5)	1982 (5)
Warmouth	1.02	1.64	3.15	2.64	5.48	3.12
Redbreast sunfish	0.04	0.09	0.01	0.00	0.36	3.03
Green sunfish	0.07	0.04	0.29	0.26	0.23	0.53
Orangespotted sunfish	0.00	0.00	0.01	0.01	0.00	0.00
Bluegill	39.81	30.82	37.16	48.08	41.94	25.79
Longear sunfish	3.95	1.79	3.03	1.62	1.65	1.12
Redear sunfish	12.73	7.54	7.95	10.29	13.58	10.06
Hybrid sunfish	0.00	0.00	0.03	0.00	0.00	0.00
Smallmouth bass	0.00	0.00	0.00	0.00	0.00	0.00
Spotted bass	0.33	0.20	0.13	0.03	0.37	1.14
Largemouth bass	8.76	8.69	11.65	11.08	16.87	12.88
White crappie	1.56	2.71	3.58	1.85	1.17	0.86
Black crappie	0.65	0.00	0.15	0.13	0.11	0.00
Unidentified darter	0.00	0.00	0.00	0.00	0.00	0.00
Unidentified darter	0.00	0.00	0.00	0.00	0.00	0.00
Mud darter	0.00	0.00	0.00	0.00	0.00	0.00
Rainbow darter	0.00	0.00	0.00	0.00	0.00	0.00
Stripetail darter	0.00	0.00	0.00	0.00	0.00	0.00
Orangethroat darter	0.00	0.00	0.00	0.00	0.00	0.00
Yellow perch	1.25	2.72	2.31	3.03	1.64	1.28
Logperch	0.95	0.34	0.14	0.03	0.14	0.33
Sauger	0.28	0.24	0.23	0.00	0.00	0.00
Freshwater drum	25.28	15.70	17.51	17.51	41.78	24.96
Brook silverside	0.38	0.12	0.07	0.07	0.23	0.40
Mixed & unid minnows	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	346.56	236.19	259.36	187.37	428.03	288.18