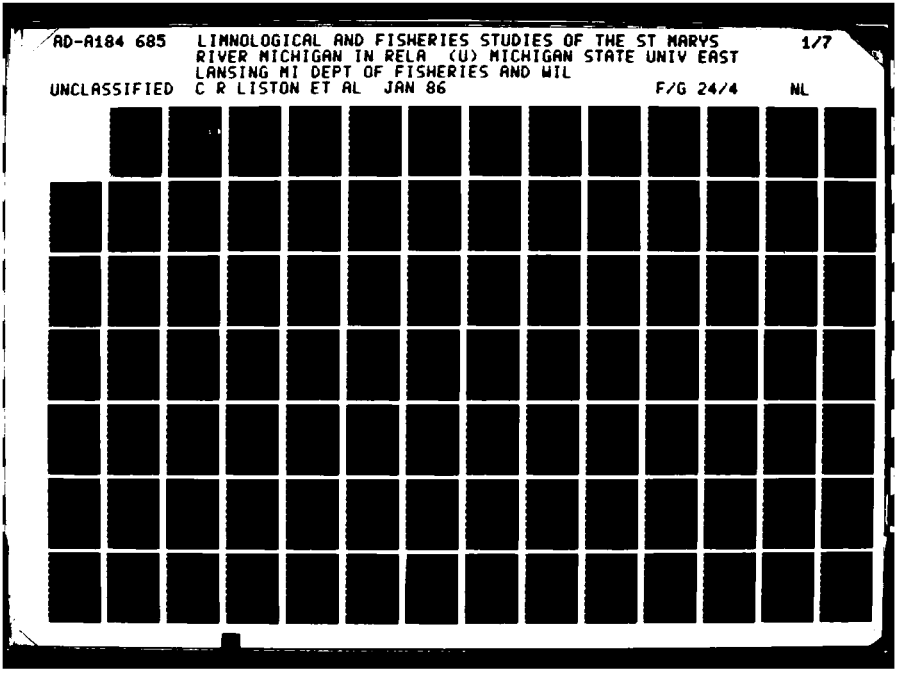
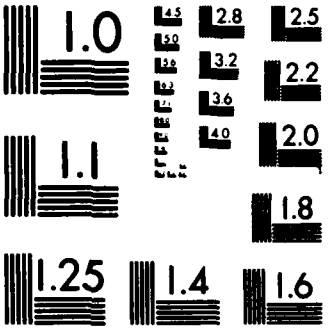

AD-A184 685 LIMNOLOGICAL AND FISHERIES STUDIES OF THE ST MARYS RIVER MICHIGAN IN RELA (U) MICHIGAN STATE UNIV EAST LANSING MI DEPT OF FISHERIES AND WIL
1/7
UNCLASSIFIED C R LISTON ET AL JAN 86
F/G 24/4
NL



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

DTIC FILE COPY

BIOLOGICAL REPORT 85(2)
JANUARY, 1986

AD-A184 685

LIMNOLOGICAL AND FISHERIES STUDIES OF THE ST. MARYS RIVER, MICHIGAN, IN RELATION TO PROPOSED EXTENSION OF THE NAVIGATION SEASON, 1982 AND 1983

Volume 2 - Appendices

DTIC
ELECTE
SEP 1 0 1987
S D



DISTRIBUTION STATEMENT A
Approved for public release
Distribution Unlimited

Fish and Wildlife Service
U.S. Department of the Interior

Corps of Engineers
U.S. Department of the Army

87 9 9 008

LIMNOLOGICAL AND FISHERIES STUDIES OF THE ST. MARYS RIVER, MICHIGAN, IN RELATION TO PROPOSED EXTENSION OF THE NAVIGATION SEASON, 1982 AND 1983

APPENDICES A - P

by

Charles R. Liston and Clarence D. McNabb
Principal Investigators

with

Dan Brazo, Joe Bohr, John Craig, Walter Duffy,
Guy Fleischer, George Knoecklein, Fred Koehler,
Rick Ligman, Rich O'Neal, Mehdi Siami,
and Paul Roettger

Department of Fisheries and Wildlife
Michigan State University
East Lansing, Michigan 48824-1222

U.S. Fish and Wildlife Service Contract No. 14-16-0009-79-013

Project Officers - Keith Kraai and William Aultfather
U.S. Fish and Wildlife Service
Federal Building
Twin Cities, Minnesota 55111

Major funding for this study was provided by
U.S. Army Corps of Engineers
Detroit District Office
under Agreement No. NCE-IA-84-0001

This study was co-sponsored by
Department of Fisheries and Wildlife
Michigan State University
and
The Michigan Agricultural Experiment Station

Performed for
Office of Biological Services
Fish and Wildlife Service
U.S. Department of Interior

LIMNOLOGICAL AND FISHERIES STUDIES OF
THE ST. MARYS RIVER, MICHIGAN, IN RELATION
TO PROPOSED EXTENSION OF THE NAVIGATION
SEASON, 1982 AND 1983

LIST OF APPENDICES

		Pages
Appendix A.	Mineral nutrients and chlorophyll a in the river during 1982 and 1983.	A1-A4
Appendix B.	Net primary productivity of the phytoplankton during 1982 and 1983.	B1-B9
Appendix C.	Photosynthetically active radiation incident to the St. Marys River during 1982 and 1983 growing season.	C1-C7
Appendix D.	Submerged vegetation on transects of Study Sites I through VII during 1983.	D1-D4
Appendix E.	Mean monthly biomass of dominant plants in emergent wetlands for growing seasons of 1982 and 1983.	E1-E24
Appendix F.	Net primary productivity of Scirpus acutus and Sparganium eurycarpum during 1982 and 1983 growing seasons.	F1-F4
Appendix G.	Net primary productivity of the periphyton during 1982 and 1983 growing seasons.	G1-G8
Appendix H.	Species of common diatoms in the plankton of the St. Marys River (1982).	H1-H16
Appendix I.	Records of water temperature, turbidity, pH and dissolved oxygen taken while sampling for larval, juvenile and adult fishes in the St. Marys River, 1982 and 1983.	I1-I51
Appendix J.	Collection records for each benthic macroinvertebrate sample including date, gear type, station/site, and density (no./m^2) for each taxa. Descriptive statistics (mean, standard deviation, standard error) for replicated samples form each date and site were also given.	J1-J136
Appendix K.	Collection records for each larval fish sampling date including station, gear type, time, water volume filtered, and density of larvae, St. Marys River, 1982 and 1983. (Total larval density for each sample may not equal the sum of densities for all species due to rounding of numbers).	K1-K50

Appendix L.	Catch records of fish collected with small trap nets in the St. Marys River during 1982 and 1983.	L1-L126
Appendix M.	Catch records of fish collected with trawls in the St. Marys River during 1982 and 1983.	M1-M58
Appendix N.	Catch records of fish collected with bottom gill nets in the St. Marys River during 1982 and 1983.	N1-N98
Appendix O.	Sample dates, effort, total catch, and numbers of fish tagged from large mesh trap net samples in the St. Marys River during 1982 and 1983. One unit of effort is equal to a two-day set or 48 hrs.	O1-O24
Appendix P.	Physical-chemical data collected during fish distribution and movement studies on the St. Marys River during 1982 and 1983.	P1-P9

Appendix A. Mineral nutrients and chlorophyll a in the river during 1982 and 1983.

QUALITY INSPECTED 2

Accesion For
NTIS CRA&I
DTIC TAB
Unannounced
Justification
By
Distribution /
Availability Codes
Dist | Avail and/or Special
A-1 | 2.5

Table A1. Total phosphorus (TP), total dissolved phosphorus (TDP), total nitrogen (TN), total Kjeldahl nitrogen (TKN), nitrate-nitrite nitrogen (NO_3-NO_2-N), dissolved reactive silica (DRSi), chlorophyll-a (Chl-a) concentrations and total nitrogen to total phosphorus ratio (TN/TP) at four sites in the St. Marys River. Sites are listed in an upstream to downstream order.

Site	Date	TP mg m^{-3}	TDP mg m^{-3}	TN mg m^{-3}	TKN mg m^{-3}	NO_3-NO_2-N mg m^{-3}	DRSi mg m^{-3}	TN/TP	Chlorophyll-a mg m^{-3}
UI.N[1]	5/7/82	24	19	476	168	309	1490	20	0.94 (2)
	6/22/82	1	<1	269	8	260	2030	269	1.25
	7/23/82	7	3	413	153	260	3390	59	0.58
	8/20/82	7	2	459	209	250	2410	66	0.60 (2)
	9/23/82	23	18	472	194	277	3660	21	1.01
	10/20/82	24	22	335	99	237	1360	14	0.82
	4/30/83	2 (2)	2 (2)	333 (2)	33 (2)	300 (2)	2780 (2)	167	1.22 (2)
	5/28/83	18	11	386	55	331	2620	21	0.82
	6/23/83	8	4	578	330	248	1290	72	0.77
	7/22/83	12	4	377	114	263	2080	31	0.56
	8/20/83	4	1	372	112	260	2490	93	0.42
	9/19/83	5	2	350	128	222	1790	70	0.40
	10/23/83	12	8	366	127	239	2290	31	0.60

Table A1. Continued

Site	Date	TP mg m^{-3}	TDP mg m^{-3}	TN mg m^{-3}	TKN mg m^{-3}	NO_3-NO_2-N mg m^{-3}	DRSi mg m^{-3}	TN/TP	Chlorophyll-a mg m^{-3}
LLN	5/7/82	30	19	421	127	294	1470	14	0.80 (2)
	6/22/82	1	<1	267	8	259	2010	267	0.89
	7/23/82	6	2	410	150	261	2360	68	1.29
	8/20/82	19	10	415 (3)	163 (3)	253 (3)	2100	22	0.71 (3)
	9/23/82	19	15	393	134	259	3010	21	0.98
	10/20/82	25	24	383	129	254	1540	15	0.90
	4/30/83	4 (2)	<1 (2)	353 (2)	64 (2)	289 (2)	2690 (2)	88	0.41 (1)
	5/28/83	15	10	488	4	484	2580	33	0.80
	6/23/83	11	6	572	311	261	1140	52	1.03
	7/22/83	10	7	398	125	273	2340	40	0.48
	8/20/83	8	<1	668	417	251	2800	84	0.52
	9/19/83	5	3	390	148	242	1840	78	0.42
	10/23/83	9	7	370	147	223	2180	41	0.75

Table A1. Continued

Site	Date	TP mg m^{-3}	TDP mg m^{-3}	TN mg m^{-3}	TKN mg m^{-3}	NO_3-NO_2-N mg m^{-3}	DRSi mg m^{-3}	TN/TP	Chlorophyll-a mg m^{-3}
ELM	5/7/82	31 (1)	20 (2)	421	161	260	1890	14	0.94
	6/22/82	5	<1	262	4	259	1990	52	1.24
	7/23/82	6	1	499	245	255	2540	83	1.44
	8/20/82	16	10	389	143	246	2020	24	0.87
	9/23/82	21	14	408	128	281	2520	19	0.73
	10/20/82	30	24	454	161	293	1560	15	0.92
	4/30/83	5 (2)	1 (2)	359 (2)	73 (2)	286 (2)	2440 (2)	72	0.67 (1)
	5/28/83	14	13	414	17	397	2410	30	0.71
	6/23/83	9	6	526	266	260	1320	58	1.20
	7/22/83	8	5	349	92	257	1670	70	0.52
	8/20/83	8	<1	633	387	246	2560	79	0.55
	9/19/83	8	2	383	146	237	1870	48	0.29
	10/23/83	21	6	436	182	254	2240	21	0.36

Table A1. Continued

Site	Date	TP mg m^{-3}	TDP mg m^{-3}	TN mg m^{-3}	TKN mg m^{-3}	NO_3-NO_2-N mg m^{-3}	DRSi mg m^{-3}	TN/TP	Chlorophyll-a mg m^{-3}
NRB	4/30/83	11	1	295	43	252	2530	27	1.51
	5/27/83	27	13	276	51	225	2140	10	0.67
	6/24/83	17	7	590	390	200	980	35	0.82
	7/21/83	13	11	345	134	211	2450	27	0.40
	8/18/83	8	1	310	109	201	3250	39	0.70
	9/20/83	14	5	427	199	228	1960	31	0.37
	10/22/83	16	12	525	306	219	2250	33	0.70

[1] Upper Lake Nicolet (ULN) values are the mean of 3 samples collected at the inlet to Lake Nicolet at 0.25 m depth along a transect across river thru channel markers 91 and 92 of Course 2 (near Frechette Point) (sample 1) and at 0.25 and 5.0 m depths at the phytoplankton productivity station off channel marker N84 of Course 4 (samples 2 and 3). Lower L. Nicolet (LLN) values are the mean of 4 samples collected at 0.25 and 2.0 m depths at the phytoplankton productivity station off channel marker 69 of upbound Course 5 (samples 1 and 2) and at the outlets from Lake Nicolet at 0.25 m depth along transects across river thru channel markers 41 and 42 of downbound course 5 (sample 3) and thru channel markers 57 and 58 of upbound Course 6 (sample 4). Eastern Lake Munuscong (ELM) values are the mean of 3 samples collected at the inlet to Lake Munuscong at 0.25 m depth along a transect across river thru channel markers 16 and 17 of upbound Course 9 (sample 1) and at 0.25 and 2.0 m depths at the phytoplankton productivity station off chan.el marker N10 of upbound Course 9 (samples 2 and 3). Northern Raber Bay (NRB) values are the mean of 2 samples collected at 0.25 and 1.5 m depths at the phytoplankton productivity station located at the midpoint of a line on a compass bearing of 90` W of true N from Round Island to the western shore. Samples collected on transects are equal-volume composites of 6 samples collected on the across river transect defined by the two channel markers. This transect is divided into three segments: two segments are from each shore to the marker at the edge of the navigation channel and the third segment is the navigation channel itself. The two samples collected in each segment are equally spaced along the transect within that segment. Number of samples per mean other than those given above for each site are reported in parentheses following the value to which they apply.

Appendix B. Net primary productivity of the phytoplankton during 1982 and 1983.

Table B1. Net productivity of the phytoplankton at Upper Lake Nicolet during 1982 measured by the ^{14}C method. Conditions at the site during measurements are reported.

Date	Incubation Period (solar h)	(mlh)	PPFD ($\mu E\ m^{-2}\ period^{-1}$)	PPFD ($\mu E\ m^{-2}\ d^{-1}$)	Diurnal Expansion Factor	Depth (m)	T (°C)	pH	[Alk] (mg l^{-1} as $CaCO_3$)	TIC (mg C l^{-1})	Productivity (mg C $m^{-3}\ period^{-1}$) $\bar{x}$	± SE	(mg C $m^{-3}\ h^{-1}$) $\bar{x}$	± SE	(mg C $m^{-3}\ d^{-1}$) $\bar{x}$	± SE	n
5/21	1209-1609	240	20.09	52.23	2.599	0.5	8	7.88	38.0	7.71	0.77	0.025	0.192	0.0064	1.99	0.065	3
						1.9	8	7.88	38.0	7.76	1.09	0.049	0.273	0.0122	2.83	0.127	3
						3.8	8	7.87	38.0	7.69	1.39	0.047	0.347	0.0115	3.61	0.121	3
6/19	1049-1455	246	15.36	31.69	2.063	0.5	9	8.04	nd	9.03	1.07	0.012	0.261	0.0032	2.21	0.026	3
						1.9	9	8.01	nd	9.04	1.66	0.051	0.404	0.0122	3.42	0.104	3
						3.8	9	8.00	nd	9.09	1.83	0.082	0.445	0.0201	3.77	0.169	3
7/20	0946-1352	246	20.16	44.67	2.216	0.5	14	8.22	nd	9.76	1.51	0.068	0.369	0.0164	3.35	0.151	3
						1.9	14	8.13	nd	9.61	2.50	0.044	0.609	0.0105	5.53	0.097	3
						3.8	14	8.23	nd	9.68	3.02	0.171	0.737	0.0419	6.70	0.379	3
8/18	1036-1439	243	12.59	28.64	2.275	0.5	19	8.29	nd	10.02	2.20	0.062	0.542	0.0153	4.96	0.141	3
						1.9	18	8.24	nd	9.98	3.09	0.116	0.763	0.0286	7.03	0.264	3
						3.8	19	8.27	nd	9.89	3.36	0.200	0.831	0.0494	7.65	0.454	3
9/21	1013-1440	267	7.43	11.35	1.528	0.5	13	8.00	38.0	9.50	1.93	0.123	0.434	0.0276	2.95	0.187	3
						1.9	13	7.94	38.0	9.41	2.22	0.066	0.498	0.0147	3.39	0.101	3
						3.8	13	7.98	39.0	9.43	2.28	0.032	0.512	0.0072	3.48	0.049	3
10/19	1047-1512	265	2.89	5.05	1.746	0.5	10	7.84	37.0	10.15	3.22	0.148	0.728	0.0336	5.62	0.258	3
						1.9	11	7.87	37.5	9.97	2.79	0.060	0.631	0.0136	4.86	0.104	3
						3.8	10	7.79	38.5	10.08	2.16	0.092	0.489	0.0205	3.77	0.160	3

Table B2. Net productivity of the phytoplankton at Lower Lake Nicolet during 1982 measured by the ^{14}C method. Conditions at the site during measurements are reported.

Date	Incubation (solar h)	Period (min)	PPFD (ε m^{-2} period^{-1})	PPFD (ε m^{-2} d^{-1})	Diurnal Expansion Factor	Depth (m)	T (°C)	pH	[Alk] (mg l^{-1} as $CaCO_3$)	TIC (mg C l^{-1})	Productivity (mg C m^{-3} period^{-1}) $\bar{x}$	±	SE	Productivity (mg C m^{-3} h^{-1}) $\bar{x}$	±	SE	Productivity (mg C m^{-3} d^{-1}) $\bar{x}$	±	SE	n
5/21	1127-1441	194	18.30	52.23	2.853	0.5	8	7.83	38.0	7.81	0.45		0.033	0.138		0.0101	1.27		0.093	3
						1.5	8	7.82	38.0	7.79	0.74		0.018	0.230		0.0055	2.12		0.051	3
						2.5	8	7.73	38.0	7.92	0.90		0.017	0.277		0.0052	2.56		0.049	3
6/19	1151-1514	203	15.01	31.69	2.112	0.5	9	8.00	nd	9.03	1.25		0.043	0.368		0.0128	2.63		0.091	3
						1.5	9	8.03	nd	9.04	1.72		0.054	0.509		0.0159	3.64		0.114	3
						2.5	9	8.00	nd	8.96	1.87		0.047	0.552		0.0138	3.95		0.099	3
7/20	1110-1451	221	17.95	44.67	2.489	0.5	14	8.23	nd	9.07	1.60		0.158	0.434		0.0429	1.98		0.393	3
						1.5	15	8.21	nd	9.38	2.19		0.079	0.596		0.0215	5.46		0.197	3
						2.5	15	8.19	nd	9.66	2.25		0.017	0.612		0.0046	5.61		0.043	3
8/18	1134-1501	207	9.25	28.64	3.098	0.5	19	8.31	nd	9.93	2.02		0.189	0.586		0.0546	6.26		0.585	3
						1.5	19	8.29	nd	9.85	2.37		0.135	0.687		0.0392	7.35		0.420	3
						2.5	19	8.28	nd	9.85	2.29		0.134	0.665		0.0389	7.10		0.416	3
9/21	1129-1452	203	5.41	11.35	2.097	0.5	13	8.09	38.5	9.44	1.40		0.071	0.414		0.0212	2.94		0.149	3
						1.5	14	8.04	39.0	9.29	1.62		0.025	0.479		0.0073	3.40		0.052	3
						2.5	13	8.10	39.0	9.48	1.51		0.159	0.447		0.0467	3.17		0.333	3
10/19	1151-1530	219	1.47	5.05	3.431	0.5	11	7.88	38.0	10.44	2.72		0.024	0.745		0.0066	9.34		0.081	3
						1.5	11	7.88	37.5	9.93	2.59		0.086	0.709		0.0237	8.88		0.295	3
						2.5	11	7.88	38.0	9.77	2.22		0.092	0.608		0.0251	7.61		0.315	3

Table B3. Net productivity of the phytoplankton at Eastern Lake Munuscong during 1982 measured by ^{14}C method. Conditions at the site during measurements are reported.

Date	Incubation Period (solar h)	(min)	PPFD (ε m^{-2} period^{-1})	(ε m^{-2} d^{-1})	Diurnal Expansion Factor	Depth (m)	T (°C)	pH	[Alk] (mg l^{-1} as $CaCO_3$)	TIC (mg C l^{-1})	Productivity (mg C m^{-3} period^{-1}) $\bar{x}$ ± SE		(mg C m^{-3} h^{-1}) $\bar{x}$ ± SE		(mg C m^{-3} d^{-1}) $\bar{x}$ ± SE		n
5/21	1018-1418	240	23.07	52.23	2.264	0.5	8	7.72	38.0	7.85	0.94	0.008	0.236	0.0021	2.14	0.018	3
						1.7	8	7.74	38.0	7.84	1.34	0.097	0.335	0.0243	3.03	0.219	3
						2.8	7	7.75	38.0	7.76	1.81	0.132	0.453	0.0329	4.10	0.298	3
6/21	1002-1407	245	17.16	38.00	2.214	0.5	12	8.16	nd	8.90	1.38	0.043	0.338	0.0106	3.06	0.095	3
						1.7	11	8.17	nd	8.92	2.15	0.044	0.528	0.0107	4.77	0.097	3
						2.8	11	8.18	nd	8.92	2.14	0.059	0.525	0.0143	4.75	0.129	3
7/21	0947-1346	239	19.47	42.89	2.203	0.5	17	8.25	nd	8.50	2.16	0.053	0.542	0.0133	4.76	0.117	3
						1.7	17	8.12	nd	8.62	2.76	0.126	0.692	0.0317	6.08	0.277	3
						2.8	17	8.21	nd	8.69	3.70	0.089	0.928	0.0222	8.14	0.195	3
8/17	1018-1445	267	19.47	37.63	1.933	0.5	19	8.41	nd	9.28	2.15	0.092	0.483	0.0208	4.15	0.177	3
						1.7	18	8.42	nd	9.43	3.14	0.048	0.705	0.0108	6.06	0.093	3
						2.8	18	8.48	nd	9.58	3.61	0.190	0.811	0.0429	6.98	0.368	3
9/22	1018-1441	263	15.96	27.00	1.692	0.5	14	8.11	38.5	9.68	1.11	0.090	0.253	0.0207	1.87	0.151	3
						1.7	15	8.09	38.5	9.79	2.18	0.012	0.498	0.0029	3.69	0.021	3
						2.8	14	8.11	38.0	9.43	2.02	0.054	0.461	0.0124	3.42	0.092	3
10/21	1218-1553	215	6.91	14.91	2.156	0.5	8	7.94	38.5	8.48	1.45	0.016	0.404	0.0042	3.12	0.034	3
						1.7	9	8.01	38.5	8.71	2.06	0.100	0.574	0.0280	4.43	0.215	3
						2.8	9	7.95	38.5	8.72	1.93	0.026	0.538	0.0074	4.16	0.057	3

Table B4. Net productivity of the phytoplankton at Upper Lake Nicolet during 1983 measured by the ^{14}C method. Conditions at the site during measurements are reported.

Date	Incubation (solar h)	Period (min)	PPFD (ϵ m^{-2} period^{-1})	PPFD (ϵ m^{-2} d^{-1})	Diurnal Expansion Factor	Depth (m)	T (°C)	pH	[Alk] (mg l^{-1} as $CaCO_3$)	TIC (mg C l^{-1})	Productivity (mg C m^{-3} period^{-1}) $\bar{x}$	± SE	(mg C m^{-3} h^{-1}) $\bar{x}$	± SE	(mg C m^{-3} d^{-1}) $\bar{x}$	± SE	n
4/26	1408-1738	210	5.45	34.02	6.237	0.5	6	7.91	38.0	9.29	1.82	0.090	0.521	0.0259	11.38	0.561	3
						1.9	5	7.97	38.0	8.69	1.90	0.091	0.542	0.0260	11.83	0.568	3
						3.8	5	7.96	38.6	9.07	2.02	0.043	0.576	0.0121	12.58	0.264	3
5/24	0914-1410	296	13.02	23.87	1.834	0.5	6	8.01	37.4	8.81	2.31	0.046	0.469	0.0093	4.24	0.084	3
						1.9	6	7.99	37.7	8.68	2.91	0.087	0.589	0.0177	5.33	0.160	3
						3.8	6	8.01	37.8	8.78	3.17	0.029	0.642	0.0058	5.81	0.053	3
6/21	1032-1355	203	15.76	41.19	2.613	0.5	14	8.20	37.6	9.66	3.66	0.181	1.081	0.0534	9.56	0.473	3
						1.9	14	8.20	37.7	9.58	4.98	0.152	1.473	0.0450	13.02	0.397	3
						3.8	13	8.18	38.6	9.70	4.19	0.199	1.240	0.0587	10.96	0.520	3
7/20	1007-1402	235	18.39	39.42	2.144	0.5	21	8.34	38.7	9.81	5.52	0.341	1.409	0.0873	11.83	0.731	3
						1.9	20	8.30	38.1	9.76	7.11	0.242	1.817	0.0620	15.25	0.519	3
						3.8	20	8.39	38.7	9.78	6.65	0.264	1.697	0.0676	14.25	0.567	3
8/16	1012-1521	309	17.02	30.13	1.770	0.5	23	8.30	38.5	9.43	5.59	0.574	1.085	0.1114	9.89	1.016	3
						1.9	23	8.30	38.5	9.56	7.97	0.369	1.546	0.0718	14.10	0.654	3
						3.8	22	8.29	38.5	9.95	8.11	0.546	1.575	0.1062	14.36	0.967	3
9/17	1128-1529	241	4.62	9.85	2.133	0.5	17	8.16	38.6	9.85	6.84	0.361	1.703	0.0900	14.58	0.771	3
						1.9	17	8.19	38.8	9.90	7.30	0.148	1.818	0.0370	15.57	0.316	2
						3.8	17	8.18	38.8	9.90	7.64	0.339	1.901	0.0842	16.28	0.722	3
10/20	1040-1418	218	14.12	26.88	1.903	0.5	11	8.23	37.7	9.81	3.79	0.227	1.041	0.0624	7.21	0.431	3
						1.9	11	8.23	37.5	9.72	5.14	0.221	1.415	0.0608	9.79	0.421	3
						3.8	11	8.21	37.6	9.80	5.85	0.233	1.611	0.0643	11.14	0.444	3

Table B5. Net productivity of the phytoplankton at Lower Lake Nicolet during 1983 measured by the ^{14}C method. Conditions at the site during measurements are reported.

Date	Incubation (solar h)	Period (min)	PPFD ($\mu E\ m^{-2}$ period^{-1})	PPFD ($\mu E\ m^{-2}\ d^{-1}$)	Diurnal Expansion Factor	Depth (m)	T (°C)	pH	[Alk] (mg l^{-1} as $CaCO_3$)	TIC (mg C l^{-1})	Productivity (mg C m^{-3} period^{-1}) $\bar{x}$	±	SE	Productivity (mg C $m^{-3}\ h^{-1}$) $\bar{x}$	±	SE	Productivity (mg C $m^{-3}\ d^{-1}$) $\bar{x}$	±	SE	n
4/27	1107-1552	285	21.05	39.10	1.858	0.5	5	8.00	38.5	8.99	1.81		0.001	0.381		0.0001	3.36		0.001	3
						1.5	4	8.01	38.0	8.89	2.79		0.026	0.588		0.0056	5.19		0.049	3
						2.5	4	8.01	38.0	8.97	3.20		0.096	0.674		0.0202	5.95		0.179	3
5/24	1045-1424	219	6.37	23.87	3.744	0.5	7	8.04	37.5	8.74	2.10		0.058	0.575		0.0159	7.86		0.217	3
						1.5	7	8.06	37.9	8.69	2.37		0.045	0.650		0.0126	8.89		0.170	3
						2.5	7	8.04	37.9	8.73	2.42		0.102	0.662		0.0279	9.05		0.380	3
6/21	1145-1449	184	12.74	41.19	3.233	0.5	13	8.28	37.5	9.48	2.99		0.075	0.977		0.0243	9.68		0.243	3
						1.5	12	8.32	37.4	9.49	3.90		0.031	1.271		0.0103	12.60		0.101	3
						2.5	12	8.33	37.2	9.50	4.20		0.148	1.369		0.0482	13.57		0.479	3
7/20	1132-1420	168	11.95	39.42	3.299	0.5	20	8.56	38.4	9.62	4.12		0.105	1.473		0.0372	13.60		0.345	3
						1.5	20	8.55	38.2	9.64	4.85		0.082	1.730		0.0293	15.98		0.270	3
						2.5	20	8.61	38.7	9.64	5.26		0.205	1.878		0.0732	17.35		0.678	3
8/16	1210-1537	207	10.32	30.13	2.921	0.5	23	8.46	38.3	9.53	3.44		0.090	0.998		0.0263	10.05		0.264	3
						1.5	22	8.49	38.1	9.46	3.79		0.107	1.099		0.0309	11.07		0.313	3
						2.5	22	8.49	38.3	9.70	4.11		0.361	1.192		0.1045	12.00		1.054	3
9/17	1032-1515	283	5.29	9.85	1.863	0.5	17	8.24	38.7	9.91	8.28		0.125	1.755		0.0265	15.42		0.233	3
						1.5	17	8.24	38.9	9.84	8.43		0.396	1.787		0.0840	15.70		0.747	3
						2.5	17	8.24	38.9	9.82	8.07		0.216	1.712		0.0456	15.03		0.401	3
10/20	0918-1436	318	19.83	26.88	1.355	0.5	11	8.15	37.6	9.79	4.49		0.015	0.847		0.0030	6.09		0.020	3
						1.5	11	8.10	38.0	9.84	7.32		0.156	1.381		0.0295	9.92		0.211	3
						2.5	11	8.17	37.7	9.87	8.41		0.117	1.587		0.0220	11.40		0.158	3

Table B6. Net productivity of the phytoplankton at Eastern Lake Munuscong during 1983 measured by ^{14}C method. Conditions at the site during measurements are reported.

Date	Incubation (solar h)	Period (min)	PPFD (ϵ m^{-2} period^{-1})	PPFD (ϵ m^{-2} d^{-1})	Diurnal Expansion Factor	Depth (m)	T (°C)	pH	[Alk] (mg l^{-1} as $CaCO_3$)	TIC (mg C l^{-1})	Productivity (mg C m^{-3} period^{-1}) $\bar{x}$	± SE	(mg C m^{-3} h^{-1}) $\bar{x}$	SE	(mg C m^{-3} d^{-1}) $\bar{x}$	SE	n
4/26	1203-1704	301	13.26	34.02	2.566	0.5	5	8.00	37.7	8.93	1.86	0.034	0.370	0.0070	4.76	0.088	3
						1.7	5	7.95	38.2	9.40	2.63	0.107	0.524	0.0214	6.75	0.275	3
						2.8	5	8.00	38.0	8.88	2.75	0.174	0.548	0.0346	7.06	0.447	3
5/28	1002-1410	248	19.52	43.09	2.208	0.5	10	8.15	38.2	9.72	1.94	0.094	0.469	0.0227	4.28	0.207	3
						1.7	10	8.19	37.8	9.62	3.30	0.210	0.799	0.0505	7.29	0.462	3
						2.8	9	8.20	37.7	9.63	3.51	0.075	0.849	0.0182	7.74	0.165	3
6/23	0945-1337	232	20.70	49.56	2.394	0.5	15	8.29	38.5	9.62	2.31	0.076	0.597	0.0197	5.52	0.183	3
						1.7	15	8.38	38.9	9.60	3.25	0.117	0.839	0.0300	7.77	0.279	3
						2.8	15	8.39	38.8	9.62	4.35	0.254	1.124	0.0659	10.40	0.610	3
7/22	1044-1439	235	20.08	46.69	2.325	0.5	21	8.63	38.4	9.57	6.57	0.069	1.676	0.0180	15.27	0.161	2
						1.7	20	8.65	39.0	9.62	7.55	0.138	1.927	0.0350	17.55	0.320	3
						2.8	20	8.69	38.3	9.58	8.23	0.087	2.103	0.0222	19.15	0.202	3
8/20	1005-1633	328	23.29	34.88	1.498	0.5	21	8.33	39.7	9.16	8.41	0.031	1.539	0.0055	12.60	0.046	2
						1.7	21	8.33	38.7	9.22	12.33	0.432	2.256	0.0790	18.47	0.646	2
						2.8	21	8.34	38.2	9.38	12.40	0.126	2.268	0.0230	18.57	0.189	2
9/19	1306-1723	259	7.14	24.45	3.424	0.5	18	8.23	39.3	9.85	6.63	0.136	1.535	0.0313	22.69	0.465	3
						1.7	18	8.23	39.3	9.80	6.45	0.169	1.494	0.0391	22.09	0.578	3
						2.8	19	8.23	39.3	9.90	5.56	0.093	1.287	0.0215	19.03	0.318	3
10/23	1107-1409	182	11.45	25.26	2.206	0.5	10	8.15	39.2	9.83	3.68	0.102	1.212	0.0338	8.11	0.225	3
						1.7	10	8.19	38.7	9.84	4.94	0.169	1.630	0.0554	10.91	0.372	3
						2.8	11	8.19	38.7	9.89	5.38	0.242	1.773	0.0797	11.87	0.533	3

Table B7. Net productivity of the phytoplankton at Northern Raber Bay during 1983 measured by ^{14}C method. Condition at the site during measurements are reported.

Date	Incubation Period (solar h)	(min)	PPFD (ϵ m^{-2} period^{-1})	(ϵ m^{-2} d^{-1})	Diurnal Expansion Factor	Depth (m)	T (°C)	pH	[Alk] (mg l^{-1} as $CaCO_3$)	TIC (mg C l^{-1})	Productivity (mg C m^{-3} period^{-1}) $\bar{x}$	± SE	(mg C m^{-3} h^{-1}) $\bar{x}$	± SE	(mg C m^{-3} d^{-1}) $\bar{x}$	± SE	n
4/28	1253-1654	241	6.67	19.06	2.857	0.5	8	8.06	40.5	9.43	8.31	0.106	2.068	0.0263	23.73	0.304	3
						1.5	8	8.05	40.4	9.47	5.55	0.079	1.381	0.0198	15.85	0.227	3
						2.5	7	8.06	40.6	9.32	2.42	0.096	0.602	0.0240	6.91	0.274	3
5/27	0958-1432	274	20.65	42.98	2.082	0.5	8	8.21	40.7	10.07	7.05	0.005	1.544	0.0012	14.67	0.011	3
						1.5	8	8.24	40.0	10.06	7.29	0.434	1.598	0.0949	15.19	0.903	3
						2.5	8	8.29	39.6	9.85	5.69	0.022	1.246	0.0048	11.84	0.046	3
6/24	[illegible]	252	21.61	48.33	2.236	0.5	18	8.53	39.7	9.77	8.70	0.936	2.071	0.2229	19.45	2.094	3
						1.5	18	8.54	39.4	9.73	8.00	0.374	1.904	0.0891	17.88	0.837	3
						2.5	17	8.50	39.0	9.67	7.96	0.291	1.896	0.0693	17.81	0.649	3
7/21	0930-1450	320	22.13	38.76	1.751	0.5	23	8.38	41.4	10.02	12.93	0.060	2.424	0.0110	22.64	0.104	3
						1.5	22	8.57	39.7	9.97	12.55	1.166	2.353	0.2186	21.98	2.042	3
						2.5	22	8.56	38.9	9.95	16.18	0.296	3.033	0.0555	28.34	0.519	3
8/18	1110-1515	245	15.08	26.11	1.732	0.5	23	8.44	40.2	10.33	11.90	0.787	2.914	0.1929	20.60	1.363	3
						1.5	23	8.42	39.6	8.15	11.33	1.283	2.775	0.3144	19.62	2.222	3
						2.5	23	8.49	40.3	8.07	12.12	0.684	2.969	0.1675	20.99	1.185	3
9/20	1051-1500	249	2.16	5.21	2.479	0.5	16	8.21	39.8	10.10	10.08	0.511	2.428	0.1230	24.40	1.238	3
						1.5	16	8.23	40.1	9.70	6.66	0.369	1.604	0.0890	16.12	0.894	3
						2.5	16	8.18	39.9	10.00	4.41	0.375	1.062	0.0902	10.67	0.907	3
10/22	1025-1425	240	10.55	17.32	1.642	0.5	10	8.10	39.8	9.92	8.41	0.191	2.105	0.0471	13.81	0.313	3
						1.5	10	8.13	39.9	10.00	9.23	0.160	2.305	0.0402	15.13	0.263	3
						2.5	10	8.14	39.4	10.19	7.89	0.423	1.972	0.1056	12.95	0.694	3

Table B8. Net productivity at selected sites in the St. Mary's River during 1982 and 1983. Productivity is expressed on a per m^2 basis.

Site	Mean Depth (m)	Date	Productivity	
			mg C m^{-2} h^{-1}	mg C m^{-2} d^{-1}
Upper L. Nicolet	3.68	5/21/82	0.93	9.64
		6/19/82	1.39	11.78
		7/20/82	2.08	18.91
		8/18/82	2.62	24.09
		9/21/82	1.81	12.30
		10/19/82	2.33	17.97
		4/26/83	2.01	43.87
		5/24/83	2.04	18.42
		6/21/83	4.79	42.33
		7/20/83	6.05	50.77
		8/16/83	5.13	46.78
		9/17/83	6.61	56.57
		10/20/83	4.81	33.28
Lower L. Nicolet	2.70	5/21/82	0.59	5.48
		6/19/82	1.31	9.34
		7/20/82	1.44	13.21
		8/18/82	1.70	18.11
		9/21/82	1.18	8.38
		10/19/82	1.89	23.67
		4/27/83	1.43	12.60
		5/24/83	1.64	22.39
		6/21/83	3.10	30.75
		7/20/83	4.33	40.00
		8/16/83	2.94	29.57
		9/17/83	4.72	41.65
		10/20/83	3.28	23.53

Table B8. Continued

Site	Mean Depth (m)	Date	Productivity	
			mg C m^{-2} h^{-1}	mg C m^{-2} d^{-1}
Eastern L. Munuscong	2.67	5/21/82	0.86	7.80
		6/21/82	1.21	10.97
		7/21/82	1.78	15.65
		8/17/82	1.29	11.13
		9/22/82	1.40	10.35
		10/21/82	1.27	9.79
		4/26/83	1.22	15.77
		5/28/83	1.79	16.31
		6/23/83	2.10	19.41
		7/22/83	4.79	43.59
		8/20/83	5.09	41.70
		9/19/83	3.92	57.97
		10/23/83	3.83	25.66
Raber Bay	2.04	4/28/83	3.39	38.92
		5/27/83	3.17	30.12
		6/24/83	4.12	38.72
		7/21/83	5.00	46.68
		8/18/83	5.75	40.67
		9/20/83	4.07	40.92
		10/22/83	4.37	28.71

Appendix C. Photosynthetically active radiation incident to the St. Marys River during the 1982 and 1983 growing seasons.

Table C1 Photosynthetically active radiation (photosynthetic photon flux density [PPFD]) incident to the St. Marys River measured at Dunbar Research Station (46° 19' N, 84° 8' W) during the 1982 growing season.

Date	Einstein m^{-2} d^{-1}	Date	Einstein m^{-2} d^{-1}
5/8	47.15	6/17	7.44
5/9	41.96	6/18	32.57
5/10	9.18	6/19	31.69
5/11	34.51	6/20	23.04
5/12	37.76	6/21	38.00
5/13	17.28	6/22	44.36
5/14	21.88	6/23	50.54
5/15	23.55	6/24	20.16
5/16	20.37	6/25	28.22
5/17	22.96	6/26	52.40
5/18	41.53	6/27	49.70
5/19	28.70	6/28	39.78
5/20	29.31	6/29	48.00
5/21	52.23	6/30	51.17
5/22	49.17	7/1	43.24
5/23	42.49	7/2	46.01
5/24	50.82	7/3	24.29
5/25	51.48	7/4	47.03
5/26	45.57	7/5	32.88
5/27	35.81	7/6	31.81
5/28	21.97	7/7	29.37
5/29	26.25	7/8	47.01
5/30	40.53	7/9	33.94
5/31	29.04	7/10	33.16
6/1	34.65	7/11	7.66
6/2	54.12	7/12	30.02
6/3	52.73	7/13	41.45
6/4	53.74	7/14	21.88
6/5	49.80	7/15	36.28
6/6	52.17	7/16	20.97
6/7	25.39	7/17	21.71
6/8	50.71	7/18	25.94
6/9	44.02	7/19	41.66
6/10	26.66	7/20	44.67
6/11	54.39	7/21	42.89
6/12	41.82	7/22	38.44
6/13	34.70	7/23	44.33
6/14	31.97	7/24	35.56
6/15	13.49	7/25	31.67
6/16	52.46	7/26	32.43

Table C1 Continued.

Date	Einstein m^{-2} d^{-1}	Date	Einstein m^{-2} d^{-1}
7/27	36.89	9/7	29.76
7/28	nd	9/8	28.17
7/29	nd	9/9	27.32
7/30	12.37	9/10	26.29
7/31	nd	9/11	12.71
8/1	10.03	9/12	24.30
8/2	37.62	9/13	12.16
8/3	6.81	9/14	5.46
8/4	18.80	9/15	6.98
8/5	34.64	9/16	23.03
8/6	33.88	9/17	3.22
8/7	33.09	9/18	26.43
8/8	20.03	9/19	8.42
8/9	15.08	9/20	8.81
8/10	24.65	9/21	11.35
8/11	28.34	9/22	27.00
8/12	nd	9/23	22.30
8/13	29.91	9/24	3.28
8/14	21.76	9/25	5.73
8/15	28.79	9/26	7.16
8/16	33.46	9/27	19.88
8/17	37.63	9/28	13.24
8/18	28.64	9/29	21.63
8/19	25.07	9/30	15.02
8/20	25.90	10/1	26.06
8/21	35.86	10/2	12.60
8/22	15.63	10/3	18.44
8/23	14.49	10/4	20.55
8/24	13.17	10/5	19.38
8/25	32.17	10/6	3.06
8/26	21.61	10/7	7.21
8/27	33.66	10/8	15.17
8/28	29.25	10/9	11.25
8/29	8.15	10/10	1.95
8/30	20.94	10/11	7.94
8/31	26.86	10/12	5.92
9/1	7.90	10/13	6.83
9/2	6.83	10/14	3.55
9/3	11.66	10/15	12.11
9/4	32.60	10/16	12.24
9/5	4.16	10/17	10.27
9/6	33.00	10/18	17.58

Table C1 Continued.

Date	Einstein m^{-2} d^{-1}
10/19	5.05
10/20	2.11
10/21	14.91
10/22	7.08
10/23	nd
10/24	15.77
10/25	16.64
10/26	16.48
10/27	13.20
10/28	8.18
10/29	7.76
10/30	15.74
10/31	15.20
11/1	2.82
11/2	1.51
11/3	6.98
11/4	10.80
11/5	9.94
11/6	6.98
11/7	11.00
11/8	3.56
11/9	11.69
11/10	2.02
11/11	3.32
11/12	3.40
11/13	5.37
11/14	3.98
11/15	12.44

Table C2 Photosynthetically active radiation (photosynthetic photon flux density [PPFD]) incident to the St. Marys River measured at Dunbar Research Station (46° 19' N, 84° 8' W) during 1983.

Date	Einstein m^{-2} d^{-1}	Date	Einstein m^{-2} d^{-1}
3/6	6.13	4/15	13.96
3/7	4.17	4/16	21.86
3/8	3.30	4/17	27.06
3/9	3.15	4/18	36.37
3/10	13.78	4/19	38.26
3/11	24.32	4/20	37.60
3/12	13.56	4/21	28.87
3/13	24.68	4/22	nd
3/14	4.63	4/23	33.28
3/15	25.08	4/24	39.91
3/16	10.69	4/25	38.08
3/17	12.48	4/26	34.02
3/18	10.22	4/27	39.10
3/19	5.78	4/28	19.05
3/20	23.52	4/29	6.14
3/21	13.34	4/30	24.32
3/22	24.76	5/1	40.88
3/23	27.20	5/2	5.51
3/24	30.62	5/3	36.92
3/25	30.56	5/4	25.95
3/26	29.67	5/5	43.23
3/27	9.67	5/6	15.95
3/28	31.57	5/7	6.07
3/29	32.32	5/8	43.23
3/30	25.08	5/9	47.85
3/31	29.99	5/10	43.35
4/1	31.25	5/11	42.34
4/2	18.53	5/12	39.68
4/3	4.50	5/13	35.63
4/4	9.55	5/14	5.86
4/5	30.04	5/15	44.70
4/6	12.46	5/16	43.10
4/7	5.00	5/17	45.77
4/8	29.12	5/18	44.36
4/9	27.28	5/19	5.69
4/10	6.73	5/20	25.88
4/11	11.05	5/21	25.75
4/12	36.40	5/22	15.53
4/13	5.47	5/23	21.24
4/14	9.19	5/24	23.86

Table C2 Continued.

Date	Einstein m^{-2} d^{-1}	Date	Einstein m^{-2} d^{-1}
5/25	13.79	7/6	45.58
5/26	21.36	7/7	28.33
5/27	42.98	7/8	17.69
5/28	43.09	7/9	43.05
5/29	3.66	7/10	47.00
5/30	20.70	7/11	42.99
5/31	15.80	7/12	47.54
6/1	45.59	7/13	45.70
6/2	28.33	7/14	40.22
6/3	40.90	7/15	42.50
6/4	24.63	7/16	39.08
6/5	24.05	7/17	38.55
6/6	38.36	7/18	46.24
6/7	45.06	7/19	27.38
6/8	44.46	7/20	39.42
6/9	26.76	7/21	38.76
6/10	39.64	7/22	46.69
6/11	41.08	7/23	33.30
6/12	41.70	7/24	46.26
6/13	41.92	7/25	45.94
6/14	40.25	7/26	45.45
6/15	38.32	7/27	40.95
6/16	48.88	7/28	9.66
6/17	42.22	7/29	nd
6/18	47.73	7/30	nd
6/19	46.94	7/31	nd
6/20	47.58	8/1	nd
6/21	41.19	8/2	nd
6/22	38.67	8/3	nd
6/23	49.56	8/4	29.78
6/24	48.33	8/5	41.98
6/25	34.73	8/6	39.66
6/26	33.64	8/7	41.81
6/27	40.38	8/8	40.05
6/28	47.03	8/9	41.28
6/29	45.67	8/10	10.65
6/30	12.23	8/11	40.76
7/1	28.10	8/12	39.70
7/2	41.48	8/13	40.36
7/3	31.23	8/14	19.04
7/4	29.25	8/15	35.53
7/5	43.72	8/16	30.13

Table C2 Continued.

Date	Einstein m^{-2} d^{-1}	Date	Einstein m^{-2} d^{-1}
8/17	4.93	9/28	13.35
8/18	26.11	9/29	22.70
8/19	11.07	9/30	29.73
8/20	34.88	10/1	29.37
8/21	17.93	10/2	10.92
8/22	39.05	10/3	2.83
8/23	35.30	10/4	8.67
8/24	39.24	10/5	14.25
8/25	30.23	10/6	22.45
8/26	18.24	10/7	7.52
8/27	30.98	10/8	21.88
8/28	27.64	10/9	31.60
8/29	36.32	10/10	27.84
8/30	22.93	10/11	15.20
8/31	42.51	10/12	4.8[illegible]
9/1	38.61	10/13	4.32
9/2	28.94	10/14	10.4[illegible]
9/3	39.25	10/15	[illegible].08
9/4	14.00	10/16	[illegible].95
9/5	17.39	10/17	nd
9/6	nd	10/18	25.78
9/7	32.25	10/19	26.46
9/8	37.57	10/20	26.88
9/9	21.22	10/21	26.32
9/10	13.11	10/22	17.32
9/11	33.03	10/23	25.26
9/12	17.03	10/24	24.21
9/13	35.13	10/25	8.91
9/14	30.32	10/26	23.73
9/15	32.33	10/27	11.41
9/16	5.13	10/28	19.22
9/17	9.85	10/29	22.48
9/18	5.26	10/30	18.55
9/19	24.45	10/31	16.89
9/20	5.23	11/1	8.14
9/21	28.76	11/2	2.44
9/22	23.18	11/3	16.30
9/23	24.42	11/4	21.19
9/24	29.11	11/5	21.16
9/25	9.02	11/6	3.93
9/26	23.35	11/7	13.80
9/27	9.74	11/8	10.57

Table C2 Continued.

Date	Einstein m^{-2} d^{-2}	Date	Einstein m^{-2} d^{-1}
11/9	1.54	12/21	4.51
11/10	2.31	12/22	7.65
11/11	11.88	12/23	11.43
11/12	18.18	12/24	4.05
11/13	12.92	12/25	6.63
11/14	3.29	12/26	8.42
11/15	2.22	12/27	7.66
11/16	7.74	12/28	2.13
11/17	17.35	12/29	11.27
11/18	3.97	12/30	11.43
11/19	4.73	12/31	11.32
11/20	1.07		
11/21	3.36		
11/22	4.43		
11/23	1.59		
11/24	1.56		
11/25	12.84		
11/26	5.31		
11/27	11.64		
11/28	1.79		
11/29	1.31		
11/30	6.07		
12/1	nd		
12/2	nd		
12/3	13.44		
12/4	9.40		
12/5	4.51		
12/6	5.23		
12/7	12.19		
12/8	6.66		
12/9	9.25		
12/10	7.29		
12/11	3.07		
12/12	5.46		
12/13	2.33		
12/14	4.25		
12/15	4.57		
12/16	9.28		
12/17	7.57		
12/18	9.85		
12/19	12.78		
12/20	11.44		

Appendix D. Submersed vegetation on transects of Study Sites I through VII during 1983.

Table D1. Submersed vegetation on transects on Study Sites I through VII.

Site	Distance (m)	Dominant Species	Ash-Free Dry Weight ($g\ m^{-2}$)	Sample Total Ash-Free Dry Weight ($g\ m^{-2}$)	Remarks
I	0-380	Chara globularis	18 (5)	18 (5)	Biomass of other species in sample <1 $g\ m^{-2}$ Sediment sandy-clay. n = 12 samples.
	380-450				Island at 450-700 m
	700-780				Scattered stands of Potamogeton sp. and Myriophyllum exalbensis on both sides of island. Sediment sandy-clay. No samples taken.
	780-1180	Chara globularis Isoetes riparia	42 (7) 4 (2)	52 (6)	Mixed stand C. globularis and I. riparia. Secondary species included: Myriophyllum tennellum, M. exalbescens, Potamogeton pectinatus, P. gramineus, Nitella flexilis. Sediment sandy-clay. n = 20 samples.
	1180-1200				No vegetation. Sediment sand.
II	0-450	Chara globularis Isoetes riparia	22 (10) 5 (2)	34 (10)	Transect a mixture of several species with C. globularis and I. riparia dominant. Nitella flexilis on rim of navigation channel. Secondary species include Potamogeton richardsonii in occasional dense patches, P. gramineus, Eleocharis acicularis, and Sagittaria crista. Sediment silty-clay. n = 20 samples.

Table D1. Continued

Site	Distance (m)	Dominant Species	Ash-Free Dry Weight ($g\ m^{-2}$)	Sample Total Ash-Free Dry Weight ($g\ m^{-2}$)	Remarks
III	0-385	Nitella flexilis Chara globularis	41 (9)	43 (9)	Mixed stand dominated by N. flexilis. Visual estimate: 50-90% cover. Occasional species include: Elodea canadensis, Potamogeton robbinsii, P. zosteriformis. Sediment silty-clay. n = 20 samples.
	385-625			23 (4)	Mixture of Potamogeton richardsonii, Elodea canadensis, Myriophyllum exalbensis, Isoetes riparia, and Eleocharis acicularis. Sediment clay. n = 20 samples.
IV	0-50				No vegetation. Sediment silty-clay.
	50-275	Nitella flexilis	39 (8)	40 (8)	Nitella stand at 80% cover except in outer 75 m where 5-15% cover occurred. Occasional species included: Potamogeton zosteriformis, Elodea canadensis, and Chara globularis. Sediment silty-clay. n = 20 samples.

Table D1 Continued

Site	Distance (m)	Dominant Species	Ash-Free Dry Weight ($g\ m^{-2}$)	Sample Total Ash-Free Dry Weight ($g\ m^{-2}$)	Remarks
IV	275-325				No vegetation. Large rock piles.
	325-435				Scattered patches of *Potamogeton richardsonii* and *Nitella flexilis* No samples taken.
	435-550	*Isoetes riparia*	34 (12)	42 (11)	Sediment sandy-clay. n = 13 samples.
V	0-1090				No vegetation. Sediment silt over clay.
	1090-1250				Scattered plants of *Nitella flexilis* and *Chara globularis*. Sediment silt over clay. No samples taken.
	1250-142	*Nitella flexilis*			*N. flexilis* at 80-90% cover. Sediment sandy-clay. No samples taken.
	1420-1990	*Nitella flexilis* *Chara globularis*			Vegetation variable between patches of *C. globularis*, patches of *N. flexilis*, and mixtures of these two plants. Percent cover variable with patches as high as 50% and as low as 5-10%. Occasional species include: *Elodea canadensis* and *Potamogeton richardsonii*. Sediment clay. No samples taken.

Table D1 Continued

Site	Distance (m)	Dominant Species	Ash-Free Dry Weight ($g\ m^{-2}$)	Sample Total Ash-Free Dry Weight ($g\ m^{-2}$)	Remarks
V	1990-2180	Nitella flexilis	19 (3)	19 (3)	Visual estimate: 90% cover. Chara globularis was occasional plant. Sediment clay. n = 20 samples.
	2180-3050				No vegetation. Sediment clay.
VI	0-1450				No vegetation. Sediment silty-clay.
	1450-1620	Nitella flexilis	11 (2)	11 (2)	Percent cover variable between 30-100%. Sediment clay. n = 20 samples.
	1620-1720				Nitella flexilis at 0-50% cover. Sediment clay. No samples taken.
	1720-2000				No vegetation. Sediment clay.
VII	0-950	Nitella flexilis			No vegetation. Sediment silty-clay.
	950-1950	Nitella flexilis	6 (2)	6 (2)	Percent cover variable with patches as high as 70-90% and as low as 30-40%. Occasional species included Potamogeton gramineus. Sediment clay with sand. n = 20 samples.

Appendix E. Mean monthly biomass of dominant plants in emergent wetlands for growing seasons of 1982 and 1983.

Table E1. Rootstock biomass (dry weight and ash-free dry weight) in a stand of Eleocharis smallii on Site II in 1982. Numbers in parentheses are one standard error: n = 15.

	Live		Dead		Total	
	g m^{-2}		g m^{-2}		g m^{-2}	
Date	DW	AFDW	DW	AFDW	DW	AFDW
4/30	1943 (927)	899 (442)	396	283	2339	1182
5/26	1174	597	272	219	1446	816
6/14	795	620	162	99	957	719
7/3	1372	587	198	97	1570	684
8/9	3453	856	90	60	3543	916
9/13	559	279	248	177	807	456
10/27	622	377	149	122	771	499

Table E2. Shoot biomass (dry weight and ash-free dry weight) in a stand of Eleocharis smallii in Site II in 1982. Numbers in parentheses are one standard error: n = 15.

	Live		Dead		Total	
	$g\ m^{-2}$		$g\ m^{-2}$		$g\ m^{-2}$	
Date	DW	AFDW	DW	AFDW	DW	AFDW
4/30	-	-	-	-	-	-
5/26	-	-	-	-	-	-
6/14	31 (5)	27 (5)	0	0	31 (5)	27 (5)
7/8	288 (58)	226 (46)	4 (2)	3 (2)	292 (59)	236 (45)
8/9	260 (34)	243 (32)	<1	<1	261 (34)	244 (32)
9/13	174 (27)	150 (26)	20 (4)	17 (3)	194 (27)	167 (26)
10/27	179 (27)	165 (25)	9 (3)	8 (3)	187 (27)	172 (26)

Table E3. Rootstock biomass (dry weight and ash-free dry weight) in a stand of Eleocharis smallii on Site II in 1983. Numbers in parentheses are one standard error: n = 15.

	Live		Dead		Total	
	g m^{-2}		g m^{-2}		g m^{-2}	
Date	DW	AFDW	DW	AFDW	DW	AFDW
4/18	2097 (367)	1477 (192)	539 (128)	452 (106)	2636 (354)	1929 (171)
5/12	1942 (523)	1105 (141)	195 (54)	163 (45)	2136 (516)	1266 (147)
6/8	2072 (184	1488 (106)	176 (23)	146 (19)	2248 (192)	1634 (117)
7/12	491 (50)	446 (44)	22 (12)	21 (11)	512 (57)	467 (51)
8/8	931 (139)	726 (95)	212 (47)	184 (39)	1142 (175)	910 (123)
9/22	720 (121)	516 (70)	0	0	720 (121)	516 (70)
10/17	1605 (156)	1172 (94)	9 (9)	8 (8)	1613 (146)	1180 (96)

Table E4. Shoot biomass (dry weight and ash-free dry weight) in a stand of Eleocharis smallii on Site II in 1983. Numbers in parentheses are one standard error: n = 15.

	Live		Dead		Total	
	g m^{-2}		g m^{-2}		g m^{-2}	
Date	DW	AFDW	DW	AFDW	DW	AFDW
5/12	2 (0.4)	2 (0.3)	<1	<1	3 (0.4)	2 (0.3)
6/8	8 (1)	7 (1)	4 (2)	4 (1)	12 (2)	11 (2)
7/12	108 (13)	98 (12)	<1	<1	109 (13)	98 (12)
8/8	297 (32)	275 (30)	3 (<1)	2 (<1)	299 (33)	277 (30)
9/22	436 (56)	403 (52)	14 (4)	12 (4)	450 (59)	407 (54)
10/17	265 (45)	241 (40)	177 (34)	160 (31)	442 (35)	402 (32)

Table E5. Rootstock biomass (dry weight and ash-free dry weight) in a stand of Eleocharis smallii on Site IV in 1983. Numbers in parentheses are one standard error: n = 15.

	Live		Dead		Total	
	$g\ m^{-2}$		$g\ m^{-2}$		$g\ m^{-2}$	
Date	DW	AFDW	DW	AFDW	DW	AFDW
4/8	223 (63)	201 (55)	284 (55)	237 (47)	508 (96)	438 (82)
5/17	1787 (327)	954 (133)	437 (123)	355 (107)	2224 (314)	1309 (132)
6/21	272 (57)	213 (46)	136 (32)	100 (23)	408 (77)	313 (58)
7/13	185 (44)	158 (33)	253 (80)	234 (73)	438 (85)	392 (75)
8/13	288 (55)	250 (50)	117 (47)	84 (36)	405 (72)	334 (65)
10/6	327 (89)	272 (74)	127 (64)	113 (57)	454 (145)	385 (125)
10/24	945 (116)	620 (68)	326 (87)	257 (74)	1270 (120)	877 (74)

Table E6. Shoot biomass (dry weight and ash-free dry weight) in a stand of *Eleocharis smallii*[1] on Site IV in 1983. Numbers in parentheses are one standard error: n = 15.

	Live		Dead		Total	
	$g\ m^{-2}$		$g\ m^{-2}$		$g\ m^{-2}$	
Date	DW	AFDW	DW	AFDW	DW	AFDW
4/8	-	-	-	-	-	-
5/17	2 (0.2)	1 (0.2)	2 (0.5)	1 (0.4)	4	2
6/21	17 (3)	16 (2)	0	0	17	16
7/13	107 (15)	96 (13)	0	0	107	96
8/18	121 (22)	109 (20)	0	0	121	109
10/6	185 (32)	167 (30)	10 (3)	9 (2)	195	176
10/24	9 (4)	8 (4)	65 (11)	59 (10)	74	67

[1] Shoots of plants other than *E. smallii* were collected in these samples. They were separated from *E. smallii* when they occurred. Miscellaneous shoots had a weight that ranged from 3-23% of total DW or AFDW $g\ m^{-2}$.

Table E7. Rootstock biomass (dry weight and ash-free dry weight) in a stand of Phragmites australis on Site IV in 1982. Numbers in parentheses are one standard error: n = 15.

	Live		Dead		Total	
	g m^{-2}		g m^{-2}		g m^{-2}	
Date	DW	AFDW	DW	AFDW	DW	AFDW
3/19	732 (134)	581 (107)	1913	1343	2645	1924
5/26	299	269	1129	904	1428	1173
6/16	401	296	1383	946	1784	1242
7/19	806	694	866	681	1672	1675
8/19	657	536	1240	961	1897	1397
9/15	933	733	2011	1885	2944	2618
10/28	1291	1082	3557	2574	4848	3656

Table E8. Shoot biomass (dry weight and ash-free dry weight) in a stand of *Phragmites australis* on Site IV in 1982. Numbers in parentheses are one standard error: n = 15.

	Live		Dead		Total	
	$g\ m^{-2}$		$g\ m^{-2}$		$g\ m^{-2}$	
Date	DW	AFDW	DW	AFDW	DW	AFDW
6/16	296 (234)	93 (38)	-	-	296 (234)	93 (38)
7/19	667 (148)	638 (142)	381 (71)	371 (68)	1119 (185)	1006 (184)
8/19	512 (139)	435 (121)	57 (13)	55 (13)	569 (146)	490 (128)
9/15	428 (86)	408 (83)	118 (33)	115 (33)	546 (103)	524 (100)
10/28	351 (94)	339 (91)	43 (15)	42 (15)	394 (104)	381 (100)

Table E9. Rootstock biomass (dry weight and ash-free dry weight) in a stand of Phragmites australis on Site IV in 1983. Numbers in parentheses are one standard error: n = 15.

	Live		Dead		Total	
	$g\ m^{-2}$		$g\ m^{-2}$		$g\ m^{-2}$	
Date	DW	AFDW	DW	AFDW	DW	AFDW
2/14	1488 (327)	1194 (320)	1060 (147)	742 (107)	2547 (365)	1935 (340)
5/17	1235 (551)	950 (409)	2019 (476)	1587 (384)	3254 (648)	2537 (497)
6/21	964 (138)	802 (116)	586 (127)	507 (119)	1550 (192)	1309 (172)
7/13	1553 (316)	1216 (226)	650 (132)	561 (110)	2203 (372)	1778 (277)
8/18	1335 (209)	1150 (160)	719 (152)	534 (111)	2054 (280)	1684 (214)
9/27	2303 (256)	1604 (172)	753 (202)	577 (148)	3056 (347)	2181 (240)
10/24	2564 (524)	1985 (426)	392 (119)	330 (104)	2955 (488)	2315 (406)

Table E10. Shoot biomass (dry weight and ash-free dry weight) in a stand of Phragmites australis[1] on Site IV in 1983. Numbers in parentheses are one standard error: n = 15.

	Live		Dead		Total	
	g m^{-2}		g m^{-2}		g m^{-2}	
Date	DW	AFDW	DW	AFDW	DW	AFDW
5/17	4 (2)	4 (2)	120 (24)	113 (24)	124	117
6/21	149 (37)	136 (34)	104 (25)	95 (23)	253	231
7/13	247 (97)	231 (92)	46 (17)	41 (16)	293	272
8/18	596 (148)	548 (143)	74 (29)	65 (26)	670	613
10/6	256 (71)	250 (69)	42 (12)	41 (11)	298	291
10/24	0	0	388 (84)	373 (30)	388	373

[1] Shoots of plants other than P. australis were collected in these samples. They were separated from P. australis when they occurred. Miscellaneous shoots had a weight that ranged from 4-19% of total DW or AFDW g m^{-2} (high % early in growing season).

Table E11. Rootstock biomass (dry weight and ash-free dry weight) in medium density stands of Scirpus acutus[1] on Site II in 1982. Numbers in parentheses are one standard error: n = 15.

	Live		Dead		Total	
	g m^{-2}		g m^{-2}		g m^{-2}	
Date	DW	AFDW	DW	AFDW	DW	AFDW
2/11	1058 (194)	861 (133)	1273 (186)	1121 (175)	2331	1982
5/21	1120 (197)	1062 (184)	928 (79)	858 (68)	2048	1920
6/17	806	702	24	21	830	723
7/8	1121	975	723	665	1844	1640
8/19	1354	1104	332	301	1686	1405
9/16	1733	1517	736	638	2469	2155
10/27	1393	1197	1223	1021	2616	2218

[1] Rootstocks of plants other than S. acutus were collected in these samples. These were separated from S. acutus where they occurred. Miscellaneous rootstocks in these samples had a weight that was 4-17% of total DW or AFDW g m^{-2}.

Table E12. Shoot biomass (dry weight and ash-free dry weight) in a medium density bed of Scirpus acutus on Site II in 1982. Numbers in parentheses are one standard error: n = 15.

	Live		Dead		Total	
	g m^{-2}		g m^{-2}		g m^{-2}	
Date	DW	AFDW	DW	AFDW	DW	AFDW
6/17	215 (28)	195 (26)	-	-	-	-
8/19	494 (36)	469 (35)	24 (6)	23 (6)	518 (37)	498 (37)
9/19	590 (89)	558 (85)	71 (14)	66 (13)	687 (94)	631 (83)
10/27	563 (37)	532 (82)	14 (8)	13 (7)	577 (85)	545 (81)

Table E13. Rootstock biomass (dry weight and ash-free dry weight) in high density stands of Scirpus acutus on Site II in 1983. Numbers in parentheses are one standard error: n = 15.

	Live		Dead		Total	
	$g\ m^{-2}$		$g\ m^{-2}$		$g\ m^{-2}$	
Date	DW	AFDW	DW	AFDW	DW	AFDW
4/8	1157 (318)	1076 (299)	175 (44)	154 (36)	1332 (330)	1230 (310)
5/13	971 (165)	866 (145)	266 (66)	203 (57)	1197 (190)	1069 (167)
6/10	1377 (353)	1176 (278)	448 (67)	400 (58)	1825 (381)	1570 (302)
7/11	654 (186)	564 (160)	45 (7)	40 (7)	698 (186)	604 (160)
8/16	294 (107)	266 (96)	27 (13)	23 (12)	321 (106)	289 (94)
9/21	948 (227)	855 (208)	5 (2)	5 (2)	954 (227)	860 (208)
10/17	1584 (194)	1467 (182)	0 -	0 -	1584 (194)	1467 (182)

Table E14. Shoot biomass (dry weight and ash-free dry weight) in high density stands of Scirpus acutus on Site II in 1983. Numbers in parentheses are one standard error: n = 15.

	Live		Dead		Total	
	$g\ m^{-2}$		$g\ m^{-2}$		$g\ m^{-2}$	
Date	DW	AFDW	DW	AFDW	DW	AFDW
5/12	2	2	519	[illegible]	[illegible]	[illegible]
	(1)	(1)	[illegible]	[illegible]	[illegible]	[illegible]
6/8	84	72	312	[illegible]	[illegible]	[illegible]
	(10)	(8)	[illegible]	[illegible]	[illegible]	[illegible]
7/11	1003	906	[illegible]	[illegible]	[illegible]	[illegible]
	(96)	(32)	[illegible]	[illegible]	[illegible]	[illegible]
8/8	2083	1919	[illegible]	[illegible]		
	(177)	(161)	[illegible]			[illegible]
9/21	2638	2428	[illegible]			[illegible]
	(259)	(240)	[illegible]			
10/17	1739	1597	[illegible]			
	(222)	(203)	[illegible]			[illegible]

Table E15. Rootstock biomass (dry weight and ash-free dry weight) in medium density stands of Scirpus acutus[1] on Site II in 1983. Numbers in parentheses are one standard error: n = 15.

	Live		Dead		Total	
	g m^{-2}		g m^{-2}		g m^{-2}	
Date	DW	AFDW	DW	AFDW	DW	AFDW
1/27	808 (267)	743 (250)	1833	1418	2633 (493)	2161 (410)
4/8	1281 (296)	1190 (276)	547 (88)	506 (86)	1827 (312)	1697 (285)
5/13	1059 (196)	915 (160)	429 (134)	341 (84)	1488 (225)	1255 (165)
6/10	1172 (153)	1088 (142)	402 (69)	362 (63)	1574 (183)	1450 (168)
7/14	609 (128)	558 (119)	470 (107)	426 (100)	1079 (127)	984 (116)
8/16	545 (166)	516 (159)	423 (192)	401 (185)	969 (322)	917 (310)
9/21	1214 (370)	1026 (288)	20 (5)	19 (5)	1235 (372)	1045 (296)
10/17	1569 (260)	1382 (233)	0 -	0 -	1567 (260)	1382 (233)

[1] The analyses included rootstocks of plants other than S. acutus taken in samples: those rootstocks were always <1% of S. acutus live biomass.

Table E16. Shoot biomass (dry weight and ash-free dry weight) in medium density stands of Scirpus acutus on Site II in 1983. Numbers in parentheses are one standard error: n = 15.

	Live		Dead		Total[1]	
	g m^{-2}		g m^{-2}		g m^{-2}	
Date	DW	AFDW	DW	AFDW	DW	AFDW
5/12	2 (1)	2 (1)	192 (27)	163 (22)	194 (27)	164 (22)
6/8	27 (5)	23 (4)	139 (20)	117 (17)	166 (23)	140 (20)
7/12	250 (53)	229 (49)	124 (27)	112 (25)	377 (78)	344 (72)
8/16	354 (53)	329 (50)	111 (19)	102 (18)	467 (68)	434 (64)
9/21	644 (116)	601 (109)	107 (27)	96 (24)	759 (139)	703 (129)
10/17	623 (90)	576 (34)	128 (20)	109 (17)	752 (100)	686 (92)

[1] Where total given in this column differs by more than rounding error from sums of appropriate columns to the left, species other than S. acutus were in the sample. Biomass of these was always <1.5% of S. acutus biomass in this bed.

Table E17. Rootstock biomass (dry weight and ash-free dry weight) in low density stands of *Scirpus acutus*[1] on Site II in 1983. Numbers in parentheses are one standard error: n = 15.

	Live		Dead		Total	
	$g\ m^{-2}$		$g\ m^{-2}$		$g\ m^{-2}$	
Date	DW	AFDW	DW	AFDW	DW	AFDW
1/27	144 (81)	126 (69)	1772 (305)	1488 (254)	1917 (346)	1613 (288)
4/8	255 (84)	233 (78)	1456 (235)	1361 (323)	1711 (270)	1595 (255)
5/13	210 (89)	184 (79)	1453 (259)	1273 (233)	1663 (294)	1456 (259)
6/10	1111 (205)	997 (183)	79 (23)	65 (17)	1190 (217)	1066 (193)
7/14	448 (107)	396 (96)	510 (143)	459 (132)	958 (159)	855 (142)
8/16	358 (93)	334 (85)	327 (38)	306 (81)	685 (129)	640 (117)
9/22	1509 (347)	1131 (196)	406 (114)	358 (104)	1914 (363)	1449 (217)
10/17	1730 (221)	1512 (198)	0 -	0 -	1730 (221)	1512 (198)

[1] The analyses included rootstocks of plants other than *S. acutus* taken in samples: those rootstocks were always <2% of *S. acutus* biomass in this bed.

Table E18. Shoot biomass (dry weight and ash-free dry weight) in a low density bed of Scirpus acutus on Site II in 1983. Numbers in parentheses are one standard error: n = 15.

	Live		Dead		Total[1]	
	g m^{-2}		g m^{-2}		g m^{-2}	
Date	DW	AFDW	DW	AFDW	DW	AFDW
5/12	1 (0.5)	1 (0.5)	113 (33)	98 (29)	114 (33)	99 (30)
6/8	11 (4)	9 (3)	76 (25)	63 (21)	86 (27)	72 (24)
7/14	98 (33)	91 (31)	41 (15)	38 (14)	147 (47)	136 (43)
8/16	322 (84)	298 (78)	68 (20)	63 (19)	391 (99)	362 (92)
9/22	229 (74)	211 (68)	34 (11)	29 (10)	267 (33)	244 (76)
10/17	303 (77)	260 (62)	65 (20)	56 (17)	367 (92)	316 (74)

[1] Where total given in this column differs by more than rounding error from sums of appropriate columns to the left, species other than S. acutus were in the sample. Biomass of these was always <2% of S. acutus biomass, except on 7/14 when it was 8%.

Table E19. Rootstock biomass (dry weight and ash-free dry weight) in a stand of Sparganium eurycarpum on Site II in 1983. Numbers in parentheses are one standard error: n = 15.

	Live		Dead		Total	
	$g\ m^{-2}$		$g\ m^{-2}$		$g\ m^{-2}$	
Date	DW	AFDW	DW	AFDW	DW	AFDW
4/19	1009 (229)	918 (209)	1793 (261)	1570 (231)	2795 (365)	2488 (323)
6/20	831 (169)	741 (151)	502 (105)	464 (85)	1365 (211)	1205 (182)
7/14	579 (114)	518 (101)	444 (86)	406 (80)	1024 (180)	924 (161)
8/16	1032 (214)	879 (185)	821 (164)	722 (145)	1854 (266)	1600 (243)
9/22	2253 (317)	1856 (272)	902 (165)	772 (145)	3154 (377)	2628 (320)
10/18	1613 (238)	1332 (202)	194 (47)	164 (40)	1812 (230)	1495 (199)

Table E20. Shoot biomass (dry weight and ash-free dry weight) in a stand of *Sparganium eurycarpum*[1] in Site II in 1983. Numbers in parentheses are one standard error: n = 15.

	Live		Dead		Total	
	$g\ m^{-2}$		$g\ m^{-2}$		$g\ m^{-2}$	
Date	DW	AFDW	DW	AFDW	DW	AFDW
5/11	3 (0.7)	2 (0.5)	253 (38)	154 (19)	256	156
6/20	211 (33)	177 (28)	102 (28)	72 (19)	313	249
7/12	756 (100)	659 (39)	97 (34)	81 (28)	853	740
8/16	1245 (127)	1122 (118)	85 (17)	77 (15)	1330	1199
9/22	1046 (78)	951 (73)	130 (21)	112 (20)	1176	1063
10/18	0	0	716 (70)	648 (64)	716	649

[1] Shoots of plants other than *S. eurycarpum* were collected in these samples. They were separated from *S. eurycarpum* when they occurred. Miscellaneous shoots had a weight that ranged from <1-7% of total DW or AFDW ($g\ m^{-2}$).

Table E21. Rootstock biomass (dry weight and ash-free dry weight) in a stand of *Sparganium eurycarpum* on Site IV in 1983. Numbers in parentheses are one standard error; n = 15.

	Live		Dead		Total	
	$g\ m^{-2}$		$g\ m^{-2}$		$g\ m^{-2}$	
Date	DW	AFDW	DW	AFDW	DW	AFDW
4/18	1172 (174)	1038 (161)	1001 (97)	738 (80)	2173	1776 (173)
5/17	1287 (190)	989 (148)	2170 (353)	973 (118)	3457 (448)	1962 (199)
6/21	1438 (263)	1219 (227)	667 (142)	490 (94)	2105 (299)	1709 (241)
7/15	1375 (183)	1152 (154)	238 (76)	166 (42)	1613 (203)	1318 (165)
8/18	845 (157)	770 (146)	520 (95)	404 (66)	1365 (192)	1173 (164)
10/6	1940 (245)	1573 (210)	954 (728)	782 (622)	2893 (824)	2354 (712)

Table E22. Shoot biomass (dry weight and ash-free dry weight) in a stand of Sparganium eurycarpum[1] on Site IV in 1983. Numbers in parentheses are one standard error: n = 15.

	Live		Dead		Total	
	$g\ m^{-2}$		$g\ m^{-2}$		$g\ m^{-2}$	
Date	DW	AFDW	DW	AFDW	DW	AFDW
5/17	2 (0.4)	2 (0.3)	53 (9)	42 (8)	54	43
6/21	173 (28)	145 (24)	36 (10)	29 (8)	209	174
7/13	279 (18)	237 (13)	48 (10)	37 (7)	327	274
8/18	868 (113)	784 (104)	6 (3)	5 (3)	874	789
10/6	441 (47)	402 (43)	119 (9)	101 (8)	560	503
10/24	0	0	677 (66)	607 (58)	677	607

[1] Shoots of plants other than S. eurycarpum were collected in these samples. They were separated from S. eurycarpum when they occurred. Miscellaneous shoots had a weight that ranged from <1-7% of total DW or AFDW $g\ m^{-2}$.

Table E23. Rootstock biomass (dry weight and ash-free dry weight) in a stand of Scirpus americanus on Site I in 1983. Numbers in parentheses are one standard error: n = 15.

	Live		Dead		Total	
	g m^{-2}		g m^{-2}		g m^{-2}	
Date	DW	AFDW	DW	AFDW	DW	AFDW
1/31	342 (107)	239 (51)	522 (122)	396 (76)	814 (171)	636 (97)
5/18	325 (53)	282 (47)	292 (48)	221 (35)	617 (92)	503 (73)
6/23	267 (44)	229 (40)	164 (37)	135 (31)	431 (58)	365 (51)
7/15	786 (173)	478 (84)	350 (123)	256 (76)	1136 (240)	734 (136)
8/18	318 (51)	257 (42)	128 (27)	109 (23)	446 (54)	366 (45)
10/5	697 (177)	509 (118)	0	0	697 (177)	509 (118)
10/26	887 (146)	717 (107)	0	0	887 (146)	717 (107)

Table E24. Shoot biomass (dry weight and ash-free dry weight) in a stand of *Scirpus americanus*[1] on Site I in 1983. Numbers in parentheses are one standard error: n = 15.

	Live		Dead		Total	
	$g\ m^{-2}$		$g\ m^{-2}$		$g\ m^{-2}$	
Date	DW	AFDW	DW	AFDW	DW	AFDW
5/18	2 (0.5)	2 (0.5)	10 (2)	6 (1)	13 (2)	8 (1)
6/23	11 (2)	9 (2)	1 (0.5)	1 (0.5)	12	10
7/15	77 (14)	66 (12)	0	0	77 (14)	66 (12)
8/13	201 (27)	180 (24)	1 (1)	1 (1)	202	182
10/5	56 (15)	50 (14)	5 (2)	5 (2)	61	55
10/26	0	0	119 (23)	105 (20)	119 (23)	105 (20)

[1] Shoots of plants other than *S. americanus* were collected in these samples. They were separated from *S. americanus* when they occurred. Miscellaneous shoots had a weight that ranged from 5-35% of total DW or AFDW $g\ m^{-2}$ (high % early in growing season).

Appendix F. Net primary productivity of *Scirpus acutus* and *Sparganium eurycarpum* during the 1982 and 1983 growing seasons.

Table F1. Net primary productivity of Scirpus acutus at Site II determined by the CO_2 gas exchange method during the 1982 and 1983 growing seasons. Productivity is expressed on a per m^2 plant surface basis. Conditions during measurements are reported.

Date	Time (solar h)	PPFD (ϵ m^{-2} d^{-1})	PPFD Mean ($\mu\epsilon$ m^{-2} s^{-1})	Air T (°C)	Productivity mg C m^{-2} h^{-1} $\bar{x}$ ± SE	Productivity mg C m^{-2} d^{-1} $\bar{x}$ ± SE	n
8/20/82	0952-1010	25.90	1246	26	214 ± 25.4	1217 ± 171	3
9/24/82	1229-1248	3.28	55	13	25 ± 10.5	422 ± 179	4
10/22/82	1513-1543	7.08	159	10	46 ± 5.1	575 ± 72	4
6/22/83	1200-1214	38.67	1058	26	274 ± 62.7	2641 ± 178	3
7/19/83	1141-1157	27.38	1630	28	359 ± 80.9	1685 ± 384	4
8/17/83	1114-1130	4.93	231	24	133 ± 21.1	778 ± 64	4
9/18/83	1215-1229	5.26	145	17	95 ± 7.3	957 ± 33	4
10/21/83	1353-1406	26.32	859	9	54 ± 14.1	455 ± 119	3

Table F2. Net primary productivity of Scirpus acutus at Site IV during 1982 and at Site VII during 1983 determined by the CO_2 gas exchange method. Productivity is expressed on a per m^2 plant surface basis. Conditions during measurements are reported.

Date	Site	Time (solar h)	PPFD		Air T (°C)	Productivity				
			(ε m^{-2} d^{-1})	Mean (με m^{-2} s^{-1})		mg C m^{-2} h^{-1} $\bar{x}$ ± SE		mg C m^{-2} d^{-1} $\bar{x}$ ± SE		n
8/17/82	IV	1347-1407	37.63	1099	26	28	19.5	319	238	3
9/23/82	IV	1323-1347	22.30	899	23	107	38.3	732	277	3
10/22/82	IV	1244-1314	7.08	304	10	85	15.4	564	113	4
6/24/83	VII	1144-1158	48.33	1251	24	115	24.5	845	181	4
7/21/83	VII	1132-1142	38.76	1504	29	208	15.0	1493	109	4
8/18/83	VII	1309-1327	26.11	1032	27	192	36.2	1368	275	4
9/20/83	VII	1318-1332	5.21	227	14	73	40.0	385	238	3
10/22/83	VII	1223-1240	17.32	689	10	27	11.9	192	83	3

Table F3. Net primary productivity of Sparganium eurycarpum at Site II determined by the CO_2 gas exchange method during the 1982 and 1983 growing seasons. Productivity is expressed on a per m^2 plant surface basis. Conditions during measurements are reported.

Date	Time (solar h)	PPFD (ε m^{-2} d^{-1})	PPFD Mean ($\mu\varepsilon$ m^{-2} s^{-1})	Air T (°C)	Productivity mg C m^{-2} h^{-1} $\bar{x}$ ± SE	Productivity mg C m^{-2} d^{-1} $\bar{x}$ ± SE	n
8/20/82	0859-0927	25.90	952	26	59 ± 3.4	453 ± 22	5
9/24/82	1201-1220	3.28	76	13	13 ± 1.9	173 ± 38	4
6/22/83	1136-1156	38.67	867	26	277 ± 32.5	3927 ± 860	4
7/19/83	1117-1135	27.38	1466	28	259 ± 5.1	1348 ± 39	4
8/17/83	1139-1153	4.93	263	24	123 ± 16.0	603 ± 74	4
9/18/83	1240-1255	5.26	189	17	58 ± 0.7	449 ± 5	3
10/21/83	1248-1304	17.32	839	10	41 ± 16.1	241 ± 92	3

Table F4. Net primary productivity of Sparganium eurycarpum at Site IV during 1982 and Site VII during 1983 determined by the CO_2 gas exchange method. Productivity is expressed on a per m^2 plant surface basis. Conditions during measurements are reported.

Date	Site	Time (solar h)	PPFD (ϵ m^{-2} d^{-1})	PPFD Mean ($\mu\epsilon$ m^{-2} s^{-1})	Air T (°C)	Productivity mg C m^{-2} h^{-1} $\bar{x}$ ± SE	Productivity mg C m^{-2} d^{-1} $\bar{x}$ ± SE	n
8/17/82	IV	1317-1341	37.63	1230	26	32 6.3	270 57	4
9/23/82	IV	1234-1304	22.30	941	23	35 15.1	309 99	4
6/24/83	VII	1209-1224	48.33	1440	24	124 13.5	1154 115	4
7/21/83	VII	1153-1204	38.76	1525	29	117 20.1	826 142	4
8/18/83	VII	1341-1358	26.11	1039	27	155 17.2	1081 122	4
9/20/83	VII	1254-1309	5.21	267	14	39 10.3	213 56	4

Appendix G. Net primary productivity of the periphyton during the 1982 and 1983 growing seasons.

Table G1. Net productivity of the periphyton of Scirpus acutus at Site II during 1982 determined by the ^{14}C method. Productivity is expressed on a per m^2 of plant surface basis. Conditions during measurements are reported.

Date	Incubation Period (solar h)	Period (min)	PPFD ($\mu E\ m^{-2}$ period^{-1})	PPFD ($\mu E\ m^{-2}\ d^{-1}$)	Diurnal Expansion Factor	T (°C)	pH	[Alk] (mg l^{-1} as $CaCO_3$)	TIC (mg C l^{-1})	Emergent Stem Viability	Productivity (mg C m^{-2} period^{-1}) $\bar{x}$	± SE	Productivity (mg C $m^{-2}\ h^{-1}$) $\bar{x}$	± SE	Productivity (mg C $m^{-2}\ d^{-1}$) $\bar{x}$	± SE	n
6/3	1348-1703	195	13.35	52.65	3.942	15	8.34	nd	7.04	Live	12.25	0.509	3.77	0.157	48.27	2.005	4
6/22	1028-1348	200	19.52	44.35	2.273	17	7.24	nd	9.29	Live	13.37	2.924	4.01	0.877	30.39	6.645	8
7/23	0904-1130	146	11.03	44.33	4.019	21	7.85	nd	7.66	Live	17.99	2.537	7.39	1.043	72.30	10.197	4
8/19	0924-1230	186	6.86	25.07	3.656	20	7.64	nd	9.45	Live	18.92	2.239	3.71	0.439	69.17	8.184	4
9/23	1101-1453	232	12.35	22.30	1.806	13	7.54	37.5	9.63	Live	11.63	2.337	3.01	0.605	21.01	4.221	4
10/20	1321-1453	92	0.40	2.11	5.251	10	7.72	39.0	8.89	Senes.	2.73	0.432	1.78	0.282	14.35	2.267	4

Table G2. Net productivity of the periphyton of Scirpus acutus at Site IV during 1982 determined by the ^{14}C method. Productivity is expressed on a per m^2 of plant surface basis. Conditions during measurements are reported.

Date	Incubation Period (solar h)	(min)	PPFD (E m^{-2} $period^{-1}$)	(E m^{-2} d^{-1})	Diurnal Expansion Factor	T (°C)	pH	[Alk] (mg l^{-1} as $CaCO_3$)	TIC (mg C l^{-1})	Emergent Stem Viability	Productivity (mg C m^{-2} $period^{-1}$) $\bar{x}$	± SE	(mg C m^{-2} h^{-1}) $\bar{x}$	± SE	(mg C m^{-2} d^{-1}) $\bar{x}$	± SE	n
6/3	1107-1530	263	23.97	52.65	2.196	14	8.03	nd	7.08	Live	5.94	0.788	1.36	0.180	13.04	1.730	4
6/21	1213-1518	185	11.12	38.00	3.417	13	8.17	nd	8.93	Live	5.43	0.604	1.76	0.196	18.55	2.064	7
7/21	1137-1338	121	10.11	42.89	4.240	22	8.18	nd	8.92	Live	16.22	1.981	8.05	0.982	68.79	8.399	6
8/17	1242-1424	102	7.31	37.63	5.146	22	7.66	nd	10.13	Live	6.49	1.970	3.82	1.159	33.40	10.140	4
9/22	1200-1421	141	8.50	27.00	3.177	14	8.04	38.5	9.68	Live	2.11	0.370	0.90	0.157	6.70	1.174	4
10/21	1405-1545	100	1.89	14.91	7.894	9	7.80	39.0	7.85	Senes.	0.61	0.168	0.37	0.101	4.84	1.325	4

Table G3. Net productivity of the periphyton of Scirpus acutus at Site II during 1983 determined by the ^{14}C method. Productivity is expressed on a per m^2 of plant surface basis. Conditions during measurements are reported.

Date	Incubation Period (solar h)	(min)	PPFD ($\mu E\ m^{-2}\ period^{-1}$)	($\mu E\ m^{-2}\ d^{-1}$)	Diurnal Expansion Factor	T (°C)	pH	[Alk] ($mg\ l^{-1}$ as $CaCO_3$)	TIC ($mg\ C\ l^{-1}$)	Emergent Stem Viability	Productivity ($mg\ C\ m^{-2}\ period^{-1}$) $\bar{x}$	±	SE	($mg\ C\ m^{-2}\ h^{-1}$) $\bar{x}$	±	SE	($mg\ C\ m^{-2}\ d^{-1}$) $\bar{x}$	±	SE	n
4/27	1252-1605	193	13.55	39.10	2.885	14	7.87	41.5	9.68	Dead	7.44		1.183	2.31		0.368	21.47		3.413	4
5/25	1025-1446	261	7.21	13.79	1.913	9	8.02	39.6	10.17	Dead	37.61		0.901	8.65		0.207	71.99		1.724	4
6/22	1108-1421	193	13.44	38.67	2.878	18	7.97	38.3	9.55	Live	9.89		4.910	3.08		1.527	28.47		14.130	3
										Dead	19.15			5.95			55.11			1
										Total	12.21		4.173	3.80		1.297	35.13		12.008	4
7/19	1055-1350	175	9.52	27.38	2.877	23	7.65	38.6	10.39	Live	6.40		2.563	2.20		0.879	18.41		7.371	4
8/17	1046-1437	231	2.41	4.93	2.050	24	7.54	39.2	11.07	Live	25.51		4.857	6.63		1.262	52.18		9.936	4
9/18	1109-1530	261	2.40	5.26	2.192	15	7.65	38.6	10.51	Live	36.10		1.099	8.30		0.253	79.11		2.409	4
10/21	1114-1414	180	11.50	26.32	2.289	7	7.88	39.1	10.26	Senes.	14.19		1.463	4.73		0.488	32.48		1.348	4

Table G4. Net productivity of the periphyton of Scirpus acutus at Site VII during 1983 determined by the ^{14}C method. Productivity is expressed on a per m^2 of plant surface basis. Conditions during measurements are reported.

Date	Incubation (solar h)	Period (min)	PPFD ($\mu E\ m^{-2}\ period^{-1}$)	PPFD ($\mu E\ m^{-2}\ d^{-1}$)	Diurnal Expansion Factor	T (°C)	pH	[Alk] (mg l^{-1} as $CaCO_3$)	TIC (mg C l^{-1})	Emergent Stem Viability	Productivity (mg C $m^{-2}\ period^{-1}$) $\bar{x}$	±	SE	Productivity (mg C $m^{-2}\ h^{-1}$) $\bar{x}$	±	SE	Productivity (mg C $m^{-2}\ d^{-1}$) $\bar{x}$	±	SE	n
4/29	1133-1438	185	2.03	6.14	3.030	7	7.82	44.5	10.62	Dead	7.36		1.114	2.39		0.361	22.29		3.375	4
5/27	1120-1421	181	13.98	42.98	3.075	10	7.96	46.8	11.84	Dead	11.68		2.646	3.87		0.877	35.91		8.137	4
6/24	1125-1407	162	13.93	48.33	3.471	19	8.60	40.7	9.99	Live	18.56		6.630	6.87		2.456	64.42		23.012	3
										Dead	29.26			10.84			101.57			1
										Total	21.23		5.398	7.87		1.999	73.71		18.735	4
7/21	1118-1442	204	16.77	38.76	2.312	23	7.99	41.6	10.51	Live	7.17		1.814	2.11		0.534	16.57		4.193	4
8/18	1244-1538	174	9.66	26.11	2.702	25	8.06	42.0	11.05	Live	7.11		2.510	2.45		0.866	19.21		6.786	4
9/20	1224-1513	169	2.11	5.23	2.479	16	7.68	40.5	10.56	Live	7.45		1.705	2.65		0.605	18.47		4.225	4
10/22	1207-1415	128	5.54	17.32	3.127	8	7.69	44.0	11.56	Senes.	7.53		3.567	3.51		1.672	24.55		11.151	4

Table G5. Net productivity of the periphyton of Sparganium eurycarpum at Site II during 1982 determined by the ^{14}C method. Productivity is expressed on a per m^2 of plant surface basis. Conditions during measurements are reported.

Date	Incubation Period (solar h)	(min)	PPFD ($\mu E\ m^{-2}\ period^{-1}$)	($\mu E\ m^{-2}\ d^{-1}$)	Diurnal Expansion Factor	T (°C)	pH	[Alk] ($mg\ l^{-1}$ as $CaCO_3$)	TIC ($mg\ C\ l^{-1}$)	Emergent Stem Viability	Productivity ($mg\ C\ m^{-2}\ period^{-1}$) $\bar{x}$	SE	($mg\ C\ m^{-2}\ h^{-1}$) $\bar{x}$	SE	($mg\ C\ m^{-2}\ d^{-1}$) $\bar{x}$	SE	n
6/3	1348-1703	195	13.35	52.65	3.942	15	8.38	nd	7.10	Live	3.07	0.776	0.94	0.239	12.08	3.061	4
6/22	1118-1350	152	14.89	44.35	2.978	17	7.24	nd	9.39	Live	5.99	0.613	2.37	0.242	17.84	1.824	4
7/23	0904-1130	146	11.03	44.33	4.019	21	7.86	nd	7.53	Live	15.91	9.033	6.54	3.712	61.94	36.302	3
8/19	0900-1228	208	6.88	25.07	3.643	20	7.57	nd	9.55	Live	22.46	2.835	6.48	0.818	81.84	10.330	4
9/13	1101-1453	232	12.35	22.30	1.806	13	7.42	37.5	9.61	Live	9.86	2.094	2.55	0.542	17.80	3.781	4
10/20	1321-1453	92	0.40	2.11	5.251	10	7.63	40.0	8.49	Senes.	1.33	0.140	0.87	0.091	7.00	0.734	4

Table G6. Net productivity of the periphyton of Sparganium eurycarpum at Site IV during 1982 determined by the ^{14}C method. Productivity is expressed on a per m^2 of plant surface basis. Conditions during measurements are reported.

Date	Incubation Period (Solar h)	(min)	PPFD ($\mu E\ m^{-2}$ period^{-1})	($\mu E\ m^{-2}\ d^{-1}$)	Diurnal Expansion Factor	T (°C)	pH	[Alk] (mg l^{-1} as $CaCO_3$)	TIC (mg C l^{-1})	Emergent Stem Viability	Productivity (mg C m^{-2} period^{-1}) $\bar{x}$	± SE	(mg C m^{-2} h^{-1}) $\bar{x}$	± SE	(mg C m^{-2} d^{-1}) $\bar{x}$	± SE	n
6/21	1117 1530	253	22.86	52.65	2.303	14	8.05	nd	7.11	Live	5.95	0.441	1.41	0.105	13.70	1.015	4
6/21	1135 1456	160	11.21	38.00	3.391	13	8.15	nd	8.98	Live	5.68	1.170	2.22	0.422	20.41	3.770	8
7/1	1137 1438	121	10.11	42.89	4.240	22	7.80	nd	10.01	Live	7.19	1.381	3.57	0.685	30.50	5.854	6
8/12	1305 1516	131	9.63	37.63	3.905	22	7.30	nd	10.13	Live	5.17	1.147	2.37	0.525	20.19	4.481	4
[illegible]	1200 1421	141	8.50	27.00	3.177	14	7.69	38.0	9.83	Live	5.13	0.643	2.18	0.274	16.30	2.044	4
[illegible]	1305 1545	100	1.89	14.91	7.894	9	7.81	39.0	8.79	Senes.	0.44		0.26		1.48		1

Table [illegible]. Net productivity of the periphyton of Sparganium eurycarpum at Site II during 1983 determined by the ^{14}C method. Productivity is expressed on a per m^2 of plant surface basis. Conditions during measurements are reported.

	Incubation Time	Period (min)	PPFD ($E\ m^{-2}$ period^{-1})	PPFD ($E\ m^{-2}\ d^{-1}$)	Diurnal Expansion Factor	T (°C)	pH	[Alk] (mg l^{-1} as $CaCO_3$)	TIC (mg C l^{-1})	Emergent Stem Viability	Productivity ($mg\ C\ m^{-2}$ period^{-1}) $\bar{x}$	±	SE	Productivity ($mg\ C\ m^{-2}\ h^{-1}$) $\bar{x}$	±	SE	Productivity ($mg\ C\ m^{-2}\ d^{-1}$) $\bar{x}$	±	SE	n
[illegible]	[illegible]	180	13.55	39.10	2.885	11	7.89	41.0	9.52	Dead	4.84		1.294	1.50		0.402	11.95		3.731	4
	[illegible]	240	7.21	11.79	1.913	9	8.06	39.4	9.78	Dead	23.87		3.010	5.49		0.692	43.67		5.758	4
[illegible]	[illegible]	180	11.46	38.67	2.878	17	8.14	38.2	9.36	Live	2.89		0.739	0.90		0.230	8.31		2.128	3
										Dead	24.14			7.51			69.46			1
										Total	8.20		5.339	2.55		1.660	23.60		15.361	4
[illegible]	[illegible]	120	9.57	22.38	2.877	21	7.53	39.1	10.64	Live	6.29		1.532	2.16		0.525	18.08		4.406	4
[illegible]	[illegible]	240	3.41	4.93	2.050	21	7.48	39.2	10.84	Live	17.04		2.324	4.43		0.604	34.85		4.755	4
[illegible]	[illegible]	240	2.40	5.26	2.192	15	7.59	39.2	10.61	Live	16.43		1.931	3.78		0.444	36.00		4.231	4
[illegible]	[illegible]	180	11.40	26.32	2.289	7	7.86	39.0	10.28	Senes.	13.22		2.619	4.41		0.873	30.26		5.993	4

Table [illegible]. Net productivity of the periphyton of Sparganium eurycarpum at Site VII during 1983 determined by the ^{14}C method. Productivity is expressed on a per m^2 of plant surface basis. Conditions during measurements are reported.

Date	Incubation Period (solar h)	Period (min)	PPFD ($E\ m^{-2}$ period^{-1})	PPFD ($E\ m^{-2}\ d^{-1}$)	Diurnal Expansion Factor	T (°C)	pH	[Alk] (mg l^{-1} as $CaCO_3$)	DIC (mg C l^{-1})	Emergent Stem Viability	Productivity (mg C m^{-2} period^{-1}) $\bar{x}$	± SE	Productivity (mg C $m^{-2}\ h^{-1}$) $\bar{x}$	± SE	Productivity (mg C $m^{-2}\ d^{-1}$) $\bar{x}$	± SE	n
[illegible]	1133-1438	185	2.03	6.14	3.030	7	7.78	45.2	10.13	Dead	1.92	1.331	1.27	0.432	11.88	4.032	4
[illegible]	1120-1421	181	13.98	42.98	3.075	10	7.84	46.1	11.82	Live	14.03	4.155	4.65	1.378	43.15	12.777	2
										Dead	20.81	2.285	6.90	0.758	64.01	7.027	2
										Total	17.42	2.753	5.78	0.913	53.58	8.468	4
[illegible]	1135-1407	162	13.93	48.33	3.471	19	8.60	40.7	9.99	Live	8.07	1.319	2.99	0.489	28.00	4.579	4
[illegible]	1118-1442	206	16.77	38.76	2.312	25	7.98	41.8	10.86	Live	11.71	3.844	3.45	1.131	27.08	8.884	4
[illegible]	1155-1538	163	9.66	26.11	2.702	26	7.34	46.8	12.89	Live	10.74	2.251	3.70	0.776	29.02	6.085	4
[illegible]	1134-1513	169	2.11	5.71	2.679	16	7.53	41.6	10.87	Live	6.77	1.590	2.40	0.565	16.78	3.942	4
[illegible]	1102-1615	128	5.55	17.32	3.121	8	7.60	43.8	11.85	Senes.	4.70	0.921	2.20	0.432	14.68	2.880	4

Appendix H. Species of common diatoms in the plankton of the St. Marys River (1982).

PLANKTONIC DIATOM ASSEMBLAGES FROM THE ST. MARYS RIVER, MICHIGAN WITH NOTES ON ECOLOGY, AND USE AS WATER QUALITY INDICATORS

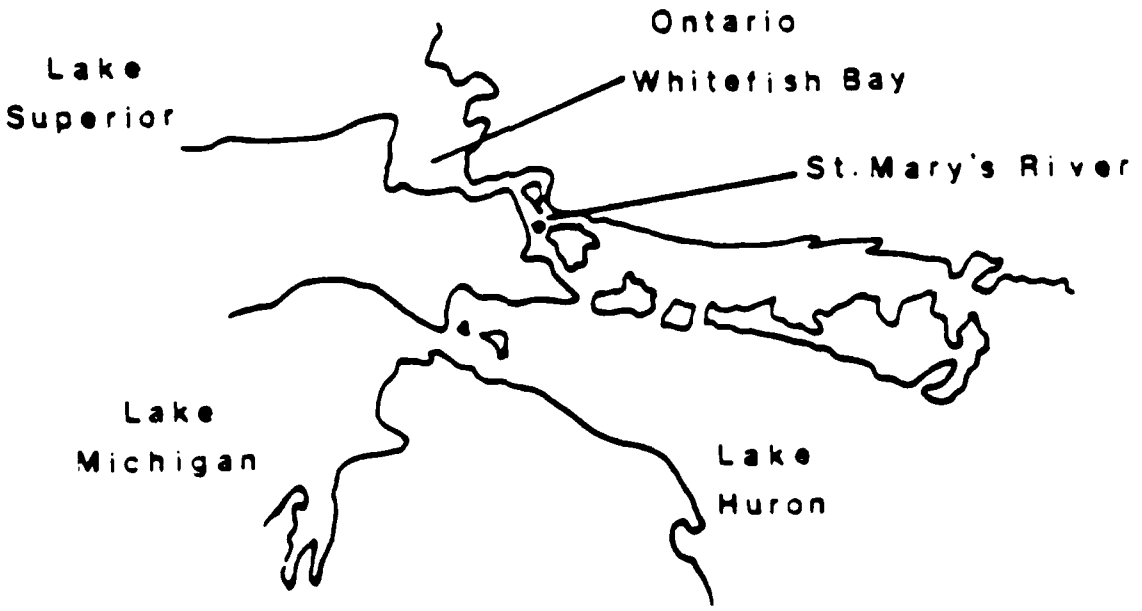
Doran M. Mason
Independent Study Project
Michigan State University
1984

ABSTRACT. Phytoplankton samples from the St. Marys River were collected monthly between May and October 1982. Diatom species composition was determined and the most abundant taxa were recorded. 72 species were identified representing 26 genera in 11 families. Eutrophication of the oligotrophic condition of the system was accomplished with the use of published material on the St. Marys River, abundance of most common species, and the environmental conditions under which the most common diatom species are known to occur.

INTRODUCTION

The St. Marys River is an oligotrophic system (Feldt et al. 1972, Liston in preparation, Schelske 1972, Williams 1962, 1964, and 1972) which originates from Whitefish Bay, Lake Superior, and empties into northern Lake Huron (FIG. 1). Because of its origin, the phytoplankton have been studied extensively. Briggs (1872) was among the first to study the occurrence of diatom taxa and their abundance in the river. He quantified the occurrence of each taxon as rare, not frequent, frequent, common, and abundant. Williams (1962, 1964, and 1972) concentrated his efforts upon diatoms as use for water quality indicators. He examined species abundance and numbers at many stations along the Great Lakes and compared stations to determine nutrient enrichment. Feldt et al. (1972) and Schelske et al. (1972), both completed studies in Lake Superior, including Whitefish Bay, examining nutrient enrichment with phytoplankton assemblages; and occurrence of morphologically abnormal Synedra sp., respectively. Kreis et al. (1983) attempted to correlate phytoplankton assemblages with water mass distribution in Lake Huron from Lake Superior and Lake Michigan.

The physical and chemical characteristics from the 1981 samples [illegible] that the St. Marys River is a phosphorus limited system. The average total dissolved phosphorus concentration was 0.012 mg/l. Silica often limits diatom growth (Lund 1950) and averaged 1.1 mg/l over the sampling period. Schelske et al. (1972) also reported low phosphorus levels and similar silica levels between 1969 and 1971. The pH in 1981 ranged from [illegible] temperature ranged from 3 to 24 degrees Celsius [illegible] temperature [illegible] around 11 to 24 mg/l as CaCO3. The [illegible]


Ontario
Lake
Superior
Whitefish Bay
St. Mary's River
Lake
Michigan
Lake
Huron

the river were provided from Liston et al. (in preparation). These data are being used as base line data for the St. Marys River to determine the impact on the system by the extension of navigation.

Diatoms are the most important algal component in the St. Marys River Plankton (Feldt et al. 1973, Schelske et al. 1972). Diatoms can be collected, preserved, and mounted easily and, therefore, are useful for indicating the trophic status of water. The purpose of this study is to identify as many diatoms species as possible from the plankton, note the most abundant taxa, and compare these data to published materials on the St. Marys River phytoplankton. The St. Marys River is oligotrophic (citation). However, the diatom assemblage was studied and compared with the literature to determine the utility of diatom assemblages as indicators of water quality

METHODS AND MATERIALS

Three stations designated by Liston et al. (in preparation) for whole water collection were sampled [illegible] over a six month period, mid May to [illegible], on the lower St. Marys River. Primarily, the samples collected were used for water chemistry determination. However, water samples from each depth and station were [illegible] immediately added to [illegible] and fixed within four hours [illegible] Lugol's solution [illegible]

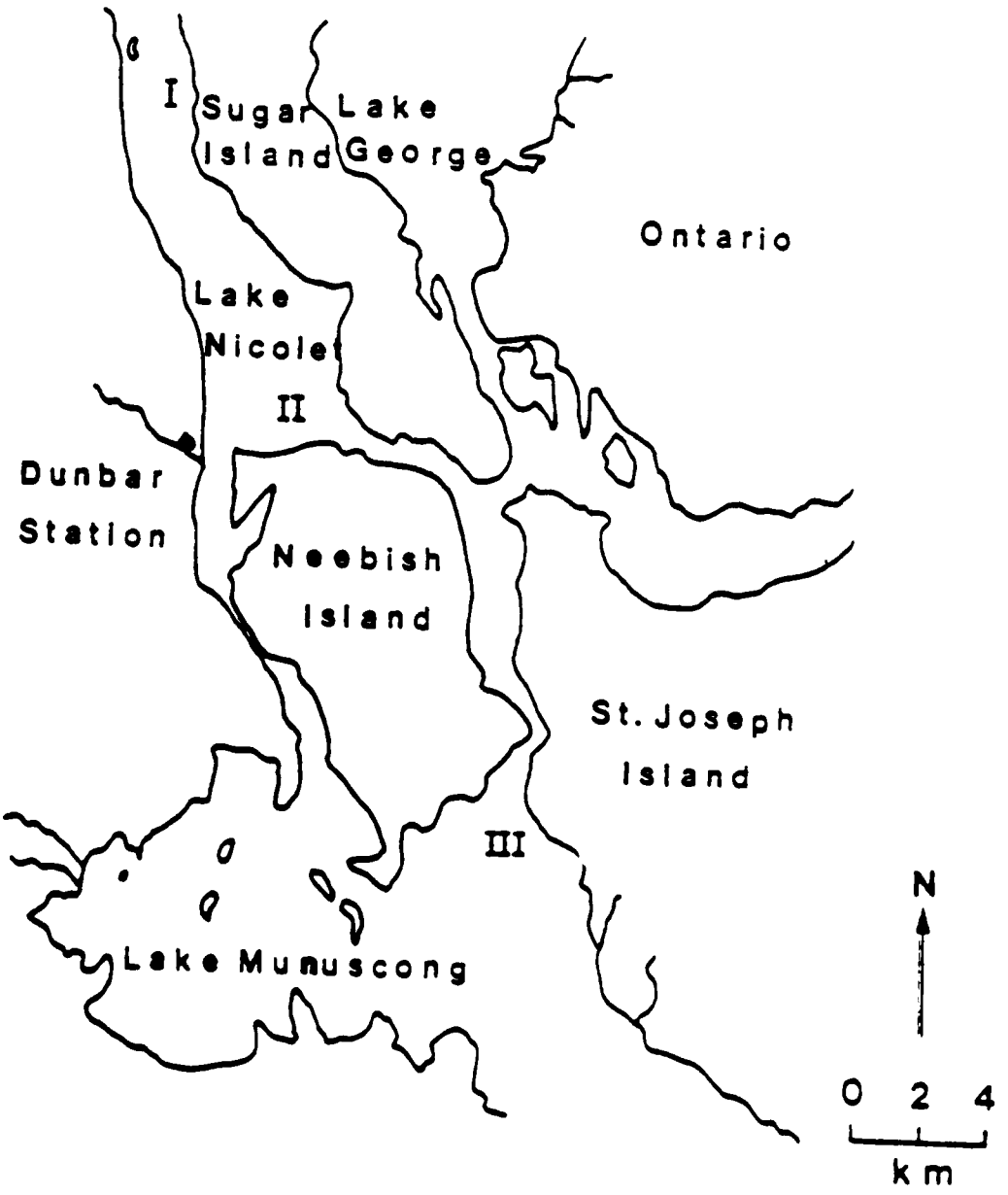


Figure 1. Sampling stations for phytoplankton collections during 1981.

made at the midpoint of each stratum (Liston, in preparation).

Material from station I and station II, upper Lake Nicolet and lower Lake Nicolet, were examined collectively as a 500 ml sample for each month. This procedure assumed homogeneity of the system and that the planktonic diatom forms would not differ between the two stations. Station 3 was looked at separately. The previously fixed samples then sat for 24 hours to allow settling of the phytoplankton and then were decanted with the use of an aspirator. Organic components of the samples were removed by adding approximately the same amount of concentrated nitric acid as solution with a small amount of potassium dichromate. The digestion of organic material was allowed to proceed for 24 hours beneath a fume hood. Distilled water was then added to the treated sample. The diatoms were settled, the samples decanted, and the washing procedure repeated until the color imparted by the nitric acid and potassium dichromate disappeared, the pH being nuetral. Upon completion of the washing, the decanted samples were placed in vials labeled with their corresponding month. Slides were made by placing five to seven drops of a sample onto an 18 mm cover glass and dried over low heat. The cover glass was then mounted in Hyrax according to the procedure in Patrick and Reimer 1966 .

Identification was accomplished using a Leitz Wetzler microscope fitted with an oil immersion objective rendering a magnification of 1,000 x N.A. = 1.25 . Frustule counts were not made; however, the relatively dominant species were noted.

RESULTS

In this study, 72 species of diatoms were identified with the morphological evaluation of Lowenia sp. representing 26 genera in 11 families

(TABLE I). Most common species are listed in TABLE II with information on the environmental conditions where each taxon is known to occur.

USE AS INDICATORS

It is generally recognized that diatom community structure reflects the immediate past history of an aquatic system with certain species only being associated with broadly defined conditions of water quality (Williams 1972, Stoermer and Yang 1970). In rivers, water quality and other physical-chemical factors are indicative of the upstream features (Whitton 1979). In this study little change in species composition and relative abundance were observed between station 1 and the two downstream stations. This indicates very little change in the condition of the system.

When using diatoms as indicators of nutrient enrichment, it is generally agreed that one should only look at the euplankters (Rawson 1956). These species are suspended in the water column and may be more representative of the trophic condition of the system than samples collected from the periphyton in an unrepresentative littoral embayment. Also, care should be exercised when determining the trophic status of a system using the chemical-physical tolerance limitations of diatoms. Just the presence or absence of one or two species does not give a good indication of the water quality (Williams 1964). An illustration of this is the occurrence of Nitzschia palea in the phytoplankton samples from the St. Marys River. According to Blum (1957), N. palea inhabits extremely polluted waters and can tolerate high concentrations of chromium and copper. If just the presence of this one species was used, this could indicate that the St. Marys River was eutrophic with possible metal pollutants. This is known not to be the case. In addition, edaphic factors also determine species present with little or no

TABLE 1. Diatom species identified from the phytoplankton of the St. Marys River, 1982.

Achnanthes clevei Grun.
A. flexella (Kutz.) Brun.
A. lanceolata (Breb) Grun.
A. minutissima (Kutz.)
A. peragalli Brun. and Herib.
Amphipleura pellucida Kutz.
Amphora coffeiformis Ag. (Kutz.)
A. ovalis var. affinis
Asterionella formosa Hass.
Cocconeis placentula var. lineata
Coscinodiscus lacustris Grun.
Cyclotella atomas Hust.
C. bodanica Eulenst.
C. comta (Ehr.) Kutz.
C. glomerata
C. kutzingiana Thw.
C. meneghiniana Kutz.
C. michiganiana Skv.
C. ocellata Pant.
C. striata (Kutz.) Grun.
Cymatopleura solea Breb.
Cymbella affinis Kutz.
C. cesatii (Rabh.) Grun.
C. cymbiformis Ag.
C. delicatula Kutz.
C. lanceolata (Ag.) Ag.
C. microcephala Grun.
C. minuta Hilse.
Diatoma heimale Ag.
D. tenue var. elongatum Lyngb.
Diploneis elliptica (Kutz.) Cl.
D. oculata (Breb.) Cl.
D. puella Schum.) C.
Eunotia glacialis (Ehr.) Rabh.
Fragilaria construens (Ehr.) Grun.
F. crotonensis Kitton.
F. pinnata Ehr.
Frustulia rhomboides (Ehr.)
Gomphonema angustatum (Kutz.) Rabn.
G. olivaceoides Hust.
G. subtile Ehr.
Gyrosigma spencerii (Quack.) Griff. and Henfr.
Hannaea arcus (Ehr.) Patr.
Melosira distans Ehr.) Kutz.
M. islandica O. Mull.
Navicula capitata Ehr.
N. cryptocephala Kutz.
N. dicephala Ehr.
N. minima Grun.
N. pseudoscutiformis Hust.
N. pupula Kutz.
N. reinhardtii Grun.
N. radiosa var. tenella
N. subtilissima Cl.
N. vanheurckii Patr.
Nitzschia capitellata Hust.
N. Denticula Grun.
N. dissipata (Kutz.) W. Sm.
N. palea (Kutz.) W. Sm.
N. sigmoidea (Nitz.) W. Sm.
Opephora martyi Herib.
Pinnularia subcapitata
var. paucistriata (Grun.) Cl.
Rhizosolenia ariensis H. L. Sm.
Stephanodiscus astraea (Ehr.) Grun.
S. invisitatus Hohn and Hellerm.
S. hantzchii Grun.
Synedra acus Kutz.
S. nana Meist.
S. radians Kutz.
S. tenera W. Sm.
S. ulna (Nitz.) Ehr.
Synedra sp.*
Tabellaria fenestrata
(Lyngb.) Kutz.

*As described in Feldt et al. (1979).

TABLE 2. Ecological characteristics of 14 most abundant species of diatoms in the St. Marys River. Information summarized in the following form:

Growth habit:
- Planktonic-P
  - euplanktonic (e)
  - meroplanktonic (m)
  - tychoplanktonic (t)
- Benthic-B

Trophic status:
- Eutrophic-Eu
- Mesotrophic-Ms
- Oligotrophic-Ol

Halobian spectrum
- Oligonalobion-O
- Indifferent
- Halophobe-Hf

Alkalinity tolerance:
- Alkalphil-Ap
- Indifferent-In
- Acidophil-Ac

SPECIES	GROWTH HABIT	TROPHIC STATUS	HALOBIAN SPECTRUM	ALKALINITY TOLERANCE	
Achnanthes minutissima Kutz.	B	--	O-i	In	*1,2
Asterionella formosa Hass.	P(e)	Eu-Ol	O-i	Ac	
Cyclotella comta Kust.	P(e)	Ol	O-i	Ac	
Cyclotella glomerata	P e	Ol	--	Ac	-
Cyclotella kuetzingiana Thw.	--	--	O-i	In	
Fragilaria construens Ehr. Grun.	P t	Eu	O-i	Ac	*3
Fragilaria crotonensis Kitton.	P e	Eu-Ol	O-i	Ac	1,2,3
Melosira islandica O. Mull.	P e	Ol-Ms	O-i	Ac	1,2
Rhizosolenia eriensis H. L. Sm.	--	Eu	--	Ac	
Stephanodiscus hantzschia Grun.	P e	Eu	O-i	Ac	
Synedra acus Kutz.	P t	Eu	O-i	Ac	
Synedra rana Meist	--	--	O-i	In-Ac	
Tabellaria flocculosa Kutz. Ehr	P e	Eu	O-i	Ac	
Tabellaria fenestrata Kutz.	P m	Ol-Ms	Hf	Ac	

* Indicator of high Si concentrations
1 Nitrogen heterotroph, eutrophentic
2 Most abundant as described by Weber (1971).
3 Most abundant as described by Williams (1964)
4 Most abundant as described by Williams (1964)
5 One of most abundant as described by Stoermer et al.

regard to water quality (Williams 1964).

So mere presence alone of one or two species is not a good indicator of the nutrient enrichment of a system. However, it has been found that there is a correlation between numbers of species available, nutrient supply, and the qualitative nature of plankton (Hutchinson 1967). Williams (1964) and Hunt (1961) also agree that the number of species present and their abundance is a more reliable indicator of water quality. Since this factor and species composition are dependent upon nutrient concentration, bodies of water can be classified by their nutrient enrichment (Williams 1964, Patrick 1948). In eutrophic waters, the number of species are generally small but compose a large portion of the diatom population and high densities of diatoms are common, while oligotrophic waters generally consist of more species composing a small portion of the total live diatom population with an overall low density (Williams 1964). Also, when using diatoms as indicators, the four most abundant species are thought to reflect environmental conditions. Hutchinson (1967), Rawson (1956), Patrick (1948), and Patrick and Reimer (1966) all agree that Cyclotella comta, Cyclotella kuetzingiana, Melosira islandica, and Tabellaria fenestrata, when found in abundance, are characteristic of oligotrophic conditions. Tonelska (1972) stated that Cyclotella glomerata is found in abundance in oligotrophic conditions. Rawson (1956) found that Asterionella formosa was common in oligotrophic lakes of western Canada. However, there is a problem using A. formosa as an indicator. This diatom occurs with abundance in both oligotrophic and eutrophic conditions (Hutchinson 1967) so it should not be used as an indicator.

[illegible] OF THE ST. MARYS RIVER

[illegible] Cyclotella glomerata, [illegible] are among the most abundant species of

diatoms in the St. Marys River. [illegible] and Tabellaria fenestrata are [illegible] dition (TABLE 2). Also, with the [illegible] Fragilaria construens as dominant [illegible] waters (Lowe 1974). Tholdeck [illegible] abundance of A. minutissima can [illegible]

INDICATORS OF [illegible]

Planktonic diatom assemblages can also be used [illegible] or major environmental changes. Stoermer and [illegible] duction in the relative abundance of [illegible] comta, Cyclotella kutzingiana, Melosira [illegible] is usually accompanied by obvious decline in water [illegible]

PRODUCTION AND SEASONAL [illegible]

In order to quantify production in the phytoplankton over the six month period, chlorophyll-a data was obtained from Lisitzin et al. [illegible] This was then plotted against total dissolved phosphorus (TDP), total dissolved silica (TDS), and total nitrogen--total phosphorus ratio (Lisitzin et al. in preparation) from 1982 (FIG. 2). The chl.-a curve illustrates what would be expected, a spring and fall maximum. However, there was found to be no significant difference in chl-a concentrations between each month [illegible]. Wetzel (1975) states that in an oligotrophic system, diatom production often proceeds continuously. This appears to be the case here.

Even though the phytoplankton production shows little statistically variation, there is an obvious decline in production following a decline in TDP and a

0 2 4 6 8 10 12
0.0 0.4 0.8 1.2 1.4 1.8 2.2
May
Jun
Jul
Aug
Sep
Oct
0.00 0.02 0.04 0.06 0.08 0.10
Total Dissolved Phosphorus mgl-1
0 20 40 60 80 100
TN/TP Ratio

[illegible] increase with increasing TDS. Silica also increases with decreasing conductivity. Since most variation in silica levels is due to diatom utilization (Hutchinson 1967), this would correlate with a decrease in diatom production. The decline of silica in mid-summer could possibly be attributed to high production of the periphyton. At no time does TDS fall below 1.40 mgl which Kilham (1975) explained to be the threshold where silica becomes non-limiting. Upon examination of the TN/TP ratio, nitrogen does not become limiting. This may show that phosphorus is limiting growth. This turns out to be the case as supported by Schelske et al. (1972) and Liston et al. (In preparation) in the St. Marys River.

Seasonal variation in species composition was not looked at in this study but was observed by Williams (1962) during 1960 and 1961. Wetzel (1975) stated that the characteristic seasonal changes in the phytoplankton populations are repetitious from year to year if the system is not disturbed. Also, the dominant species Williams (1962) observed were relatively abundant in the 1982 samples.

Williams (1962) found that Tabellaria fenestrata was one of the most abundant in the flora for the entire season. Williams (1962) also found that Melosira islandica peaked in mid-spring and then declined and all Cyclotella sp. became abundant in the fall. Achnanthes minutissima was found among the most abundant during mid-spring, early summer and in the fall.

There are a number of factors that are proposed to account for seasonal variation. Patrick (1948 and 1977) and Hutchinson (1967) all attribute seasonal succession of diatoms to shifts in the concentration of nutrients together with shifts in other ecological factors. Temperature and illumination are important in influencing rate of development during periods of

increase but is not normally the cause of the collapse of populations (Lund 1950). Competition can cause seasonal variability. Achnanthes minutissima and Cocconeis placentula adversely affect each other (Brown and Austin 1973). Predation from invertebrate grazing and exhaustion of essential nutrients also affect seasonal variability.

CLOSING REMARKS

Future studies with diatoms would be more meaningful for interpreting water quality if quantitative samples were collected and numbers of each species were enumerated to determine relative abundance. Addition of more stations and more frequent sampling than was used here is required due to the rapid flucuation of phytoplankton crops. Yearly averages of numbers of ecologically important species facilitates water quality evaluation (Williams 1964).

There are some difficulties, however, in using diatoms as water quality indicators. They are frequently difficult to identify for the non-specialist. Specialists must keep abreast of taxonomic changes. Lastly, the ratio of dead to live cells, which can vary, is of considerable significance in interpreting water quality but often is difficult to determine. (Witton 1979).

LITERATURE CITED

APHA, AWWA, WPCF. 1971. Standard Methods for the Examination of Water and Wastewater. 13th Edition. Amer. Publ. Health Assoc., New York.

Blum, J. 1957. An ecological study of the algae of the Saline River, Michigan. Hydrobiologia, 9(4): 361-407.

Briggs, S. 1872. Some of the Diatomaceae of upper Lake Huron and the Sault. The Lens, 1: 235-237.

Brown, S. and A. Austin. 1973. Diatom succession and interaction in littoral periphyton and plankton. Hydrobiologia, 43(3-4): 333-356.

Cholnoky, B. 1968. Die okologie der Diatomeen in Binnengewassern (The ecology of diatoms in island waters). J. Cramer, Lehre. 699 p.

Feldt, L., E. Stoermer, and C. Schelske. 1973. Occurrence of morphologically abnormal Synedra populations in Lake Superior phytoplankton. Proc. 16th Conf. Great Lakes Res., Internat. Great Lakes Res. pp. 34-39.

Hunt, G. 1963. Wild celery in the lower Detroit River. Ecology, 44: 360-370.

Hutchinson, G. 1957. A Treatise on Limnology, vol. II Geography, Physics, and Chemistry. New York, John Wiley and Sons, Inc. 1015 p.

Hutchinson, G. 1967. A Treatise on Limnology, vol. II. An Introduction to Lake Biology and the Limnoplankton. New York, John Wiley and Sons, Inc. 1115 p.

Kilham, S. 1975. Kinetics of silica-limited growth in the freshwater diatom Asterionella formosa. J. Phycol., 11: 396-399.

Kreis, R., T. Ladewski, and E. Stoermer. 1983. Influence of the St. Marys River plume on northern Lake Huron Phytoplankton assemblages. J. Great Lakes Res. 9(1): 40-51.

Liston, et al. in preparation. Environmental Baseline Studies of the St. Marys River, Michigan, Prior to Proposed Extension of Navigation Season, 1982-1983. Mich. State Univ., Dept. Fish. Wildl. Rep. to Fish Wildl. Serv.

Lowe, R. 1974. Environmental Requirements and Pollution Tolerance of Freshwater Diatoms. U.S. Environmental Protection Agency, Environmental Monitoring Series; publication EPA-670/4-74-005.

Lund, J. 1950. Studies on Asterionella formosa Hass. II. Nutrient depletion and the spring maximum, Parts I-II. J. Ecology, 38(1): 1-35.

Patrick, R. 1948. Factors effecting the distribution of diatoms. The Botanical Review, 14(8): 473-524.

Patrick, R. 1963. Structure of diatom communities under varying ecological conditions. Annual. of the New York Aca. of Sci. 108(2): 359-365.

Patrick, R. 1977. Ecology of Freshwater Diatoms and Diatom Communities. Chapter 10. pp. 284-332. The Biology of Diatoms. Ed. D. Werner. 1977. Univ. of Calif. Press, Berkeley and Los Angeles. 498 p.

Patrick, R. and C. Reimer. 1966. The Diatoms of the United States, Exclusive of Alaska and Hawaii. Vol. I. Fragilariaceae, Eunotiaceae, Achnanthaceae, Naviculaceae. Acad. Nat. Sci. Philadelphia, Monogr. 13: 1-688.

Rawson, D. 1956. Algal indicators of trophic lake types. Limno. Oceanog. 1: 18-25.

Schelske, C., L. Feldt, M. Santiago, and E. Stoermer. 1972. Nutrient enrichment and its effect on phytoplankton production and species composition in Lake Superior. Proc. 15th Conf. Great Lakes Res., Internat. Assoc. Great Lakes Res. pp. 149-165.

Stoermer, E., S. Taylor, and E. Callender. 1971. Paleoecological interpretation of the holocene diatom succession in Devils Lake, North Dakota. Trans. Amer. Micros. Soc., 90(2): 195-206.

Stoermer, E., and J. Yang. 1970. Distribution and relative abundance of dominant plankton diatoms in Lake Michigan. Great Lakes Res. Div., Univ. Michigan, 16: 1-64.

Weber, C. 1971. A Guide to the Common Diatoms at Water pollution Surveillance System Stations. U.S. Environmental Protection Agency. Cincinnati, OH. 101 p.

Wetzel, R. 1975. Limnology. Philadelphia, Sanders College Publishing. 473 p.

Whitton, B. 1979. Algae and Higher Plants as Indicators of River Pollution. Chapter 6. Biological Indicators of Water Quality. Ed. by A. James. L. Evison, John Wiley and Sons.

Williams, L. 1964. Possible relationship between planktonic diatom species and water quality estimates. Ecology, 45(4): 809-823.

Williams, L. 1972. Planktonic diatom species biomass and the quality of American rivers and the Great Lakes. Ecology, 53(6): 1038-1050.

Williams, L., and C. Scott. 1962. Principal diatoms of major water ways of the United States. Limno. Oceanog. 7: 365-379.

Yount, J. 1956. Factors that control species numbers in Silver Springs Florida. Limno. Oceanog. 1: 286-295.

Appendix I. Records of water temperature, turbidity, pH and dissolved oxygen taken while sampling for larval, juvenile and adult fishes in the St. Marys River, 1982 and 1983.

Table II. Physical and chemical measurements taken at Station 1 during larval, juvenile and adult fish sampling, St. Marys River, 1982.

		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
2/10	GNS							0.0	1.0							
2/18	GNS							0.0	1.6							
2/24	GNS								3.1							
3/3	GNS							0.0	1.1							
3/3	GND							0.0	0.5							
3/10	GNS							0.0	0.8							
3/10	GND							0.0	1.3							
3/17	GNS							0.0	1.3							
3/17	GND							0.0	1.0							
5/17	LF	2045	14.5	3.7	8.0	10.6	2109	5.0	2.9	8.0	14.4	2130	5.0	1.5	7.5	14.9
5/27	LF	2205	19.9	28.0	7.8	8.4	2224	12.5	2.8	8.3	11.1	2243	6.5	1.7	6.7	12.0
6/8	LF	2130	15.8	3.5	7.7	10.1	2210	12.0	2.2	7.7	11.8	2230	9.5	0.6	7.7	11.1
6/22	STV	2150	9.5	1.0		11.2										
6/22	STO	2205	15.0	3.0		9.8										
6/23	STV	0800	10.0	0.5		10.8										
6/23	STO	0830	10.0	0.5		10.8										
6/23	STV	1930	18.0	3.4		9.4										
6/23	STO	2000	18.0	3.4		9.4										
6/23	TWS						2220	12.0	0.8		9.6					
6/23	TWD						2245	12.0	0.8		9.6					
7/8	GND						2015	15.0	0.7	7.1	9.6					
7/8	GNS						2030	15.0	0.7	7.1	9.6					
7/9	GND						0850	17.0	1.1		10.2					
7/9	GNS						0905	17.0	1.1		10.2					
7/14	LF	2145	16.5	4.0		8.5	2210	14.0	1.5		10.6	2245	11.3	0.5		10.2
7/14	STO	2030	17.9	15.0		9.2										
7/14	STV	2100	16.5	4.0		8.5										

Table 11. Continued

Date	Gear[1]	Zone 1 Upper Littoral, ≤1.5 m Time	Temp.	Turb.	pH	D.O.	Zone 2 1.5 - 8 m Time	Temp.	Turb.	pH	D.O.	Zone 3 Channel, 8 - 9 m Time	Temp.	Turb.	pH	D.O.
7/15	STO	0905	15.0	2.2		8.7										
7/15	STV	0927	15.0	2.2		8.7										
7/15	STO	2045	19.0	6.0	8.3	9.2										
7/15	STV	2059	19.0	6.0	8.3	9.2										
7/20	TWD						2215	15.8	1.5		10.6					
7/20	TWS						2150	15.8	1.5		10.6					
7/26	LF	2155	19.8	2.3		9.0	2215	19.0	1.3		9.6	2335	16.0	0.3		9.8
8/4	GND						2015	16.0	0.5	7.8	8.9					
8/4	GNS						2030	16.0	0.5	7.8	8.9					
8/5	GND						0930	14.0	1.3	7.8	9.8					
8/5	GNS						0945	14.0	1.3	7.8	9.8					
8/5	STV	0900	17.0	3.5	7.7	8.4										
8/5	STO	0915	17.0	3.5	7.7	8.4										
8/5	STV	2015	20.0	18.0		9.2										
8/5	STO	2045	20.0	18.0		9.2										
8/6	STV	0915	18.0	2.0		8.9										
8/6	STO	0945	18.0	8.2		8.9										
8/12	LF	2135	17.8	3.0	8.1	9.7	2155	16.2	0.9	8.1	10.1	2230	16.0	0.5	8.0	10.0
8/18	TWS						2115	18.8	1.8	8.1	7.9					
8/18	TWD						2145	18.8	1.8	8.1	7.9					
8/24	LF	2150	17.5	1.8	8.3	10.3	2210	16.1	0.8	8.0	10.0	2230	17.0	0.3	7.9	9.3
8/24	GND						2130	17.0	0.3	7.9	9.3					
8/24	GNS						2140	17.0	0.3	7.9	9.3					
8/25	GND						0855	16.0	0.8	7.9	9.8					
8/25	GNS						0910	15.8	0.8	7.9	9.8					
9/15	LF	2030	13.0	3.8	6.9	10.3	2050	14.9	0.9	7.0	10.1	2115	15.0	0.5	7.1	10.1
9/15	STO	2000	13.0	3.8	6.9	10.3										

Table II. Continued

		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
9/15	STV	2015	13.0	3.8	6.9	10.3										
9/16	STO	0805	11.5		6.9	10.4										
9/16	STV	0830	11.5		6.9	10.4										
9/21	TWD							13.0	2.2	7.7	9.5					
9/21	TWS						2000	13.0	2.2	7.7	9.5					
9/21	GND							13.0	2.2	7.7	9.5					
9/21	GNS						2000	13.0	2.2	7.7	9.5					
9/22	GND							11.5	0.8	7.6	9.6					
9/22	GNS						0955	11.5	0.8	7.6	9.6					
10/12	GND						1830	10.0	0.4		11.6					
10/12	STO	1930	12.0	7.0		11.2										
10/12	STV	1900	12.2	4.4		11.5										
10/13	GNS						0845	11.0	0.6	8.3	10.8					
10/13	GND						0915	10.5	0.4	8.6	10.4					
10/13	STO	0830	11.5	80.0	8.7	10.2										
10/13	STV	0810	11.5		8.3	10.0										
10/25	TWS						1910		1.1							
10/25	TWD						1900		1.9							
11/10	STO	0920	3.0	5.0	7.5	12.3										
11/10	STV	0855	3.0	3.6	7.9	12.6										
11/10	STO	1530		2.7	7.5											
11/10	STV	1545		16.0	7.7											
11/17	GNS						1635	6.0	0.5		14.2					
11/17	GND						1700	6.0	1.6		13.0					
11/17	TWS						1710	6.0	1.6		13.0					
11/17	TWD						1720	6.0	0.5		13.2					

Table II. Continued

Date	Gear[1]	Zone 1 Upper Littoral, ≤1.5 m Time	Temp.	Turb.	pH	D.O.	Zone 2 1.5 - 8 m Time	Temp.	Turb.	pH	D.O.	Zone 3 Channel, 8 - 9 m Time	Temp.	Turb.	pH	D.O.
11/18	GNS						0845	6.0	1.2	7.5	11.8					
11/18	GND						0830	5.8	0.8	7.5	11.8					

[1] Gears as follows: GNS, gill net shallow; GND, gill net deep; LF, larval fish; STV, small trap net in vegetation; STO, small trap net in open water; TWS, trawl shallow; TWD, trawl deep.

Table 12. Physical and chemical measurements taken at Station II during larval, juvenile and adult fish sampling, St. Marys River, 1982.

		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
2/2	GNS		0.0	1.25												
	GND							0.0	1.00							
2/10	GNS		0.0	0.55												
	GND							0.0	0.50							
2/18	GNS		0.5	1.80												
	GND							0.5	0.70							
2/24	GNS		0.0	0.52												
	GND							0.0	0.48							
3/3	GNS		0.0	0.70												
	GND							0.0	0.60							
3/10	GNS			1.00												
	GND								0.80							
5/6	STO	0830	9.5	9.00	8.7											
	STV	0900	9.5	9.00	8.7											
5/6	STO				13.0											
	STV				13.0											
	GND						0745	4.0	2.50		12.0					
	GNS						0815	4.0	2.50		12.0					
5/12	LF	2210	13.0	3.50		14.4	2240	11.5	3.10		14.8	2145	5.8			15.8
5/26	LF	2344	15.0	3.60	8.2	11.1	0012	17.0	3.40	7.5	10.2	2345	8.5	1.60	7.5	10.8
6/10	GND						2030	10.0	1.80	8.0	10.8					
	GNS						2040	12.0	1.80	8.0	10.8					
6/16	LF	0030	8.0			11.4	0100	9.0			11.6	0030	8.8		7.5	11.8
6/21	TWS						2216	13.5	2.30		11.3					
	TWD						2235	11.0	2.30		11.3					
	STO	2110	15.2	1.90		9.6										
	STV	2130	15.2	1.90	9.6											

Table I2. Continued

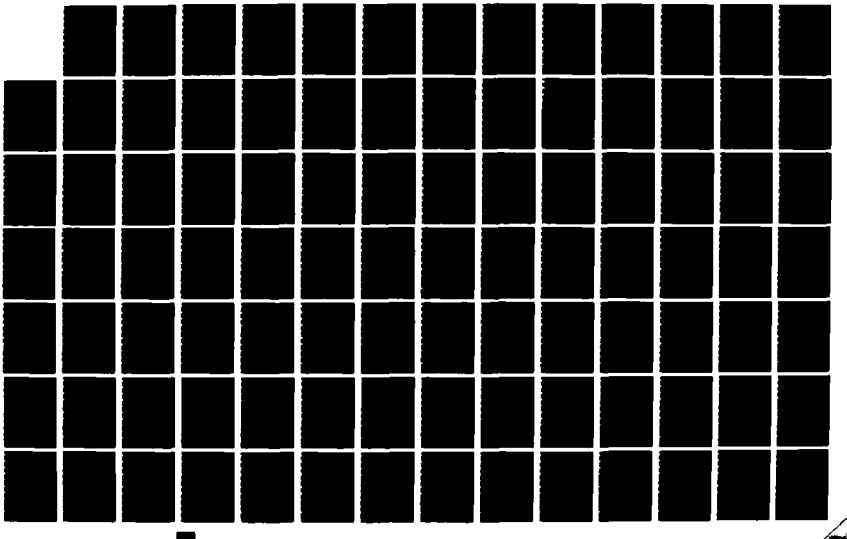
		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
6/21	STV	845	11.5	1.90	9.7											
	STO	915	11.5	1.90	9.7											
6/22	STV	2155	15.0	1.80		9.8										
	STO	2210	15.0	1.80		9.8										
6/30	LF	0010	14.0	3.00	8.0	7.5	0030	12.0	3.50	8.0	9.4	0030	13.0	1.50	8.0	9.9
7/6	GND						2130	16.1	1.80	7.9	8.9					
	GNS						2130	16.1	1.80	7.9	8.9					
7/7	GND						1130	15.1	1.25		7.0					
	GNS						1130	15.1	1.25		7.0					
7/13	LF	2345	16.2	3.00	8.0	9.4						2394	17.6	1.50	7.8	10.2
7/14	LF						0005	16.0	3.00	8.2	9.8					
7/15	STO	820	15.5	2.25		9.5										
	STV	845	15.5	2.25		9.5										
	STO	2135	19.5	2.20	8.1	10.7										
	STV	2115	19.5	2.20	8.1	10.7										
7/16	STO	840	16.0	2.50	7.5	9.0										
	STV	900	16.0	2.50	7.6	9.0										
7/22	TWS						2210	18.0	4.00		10.1					
	TWD						2225	17.0	4.00		10.2					
7/29	LF	2335	20.5	2.5	7.9	8.6	2350	19.0	3.00	8.2	9.1	2331	17.4	1.50		
8/2	GND						2130	19.0	1.70	8.1	9.5					
	GNS						2145	19.0	1.70	8.1	9.5					
8/10	TWS						2140	15.0	2.35	7.8	9.3					
	TWD						2200	15.0	2.25	7.8	9.3					
	STO	2100	17.0	2.00	7.8	8.8										
	STV	2130	17.0	2.00	7.8	8.8										
8/11	STO	910	14.0	4.25	7.8	9.4										

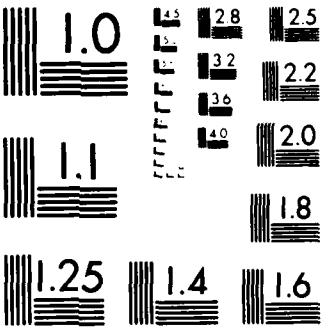
Table 12. Continued

		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
8/11	STV	925	14.0	4.25	7.8	9.4										
	STO	2030	17.0	2.50	8.2											
	STV	2100	17.0	2.50	8.2											
8/16	LF	2320	21.0	2.25	8.0	6.1	2335	19.5	3.00	8.2	9.0	2320	17.8	1.50	8.1	10.0
8/25	LF	2230	18.9	2.25	8.1	8.7	2230	18.0	3.50	8.1	9.4	2240	17.2	1.75	8.1	9.2
8/26	GNO						1830	17.0	2.80	8.3	9.5					
	GNS						1845	16.2	2.80	8.3	9.5					
8/27	GND						0840	16.0	1.50	7.9	8.3					
	GNS						0855	16.0	1.50	7.9	8.3					
8/31	STO	1930	17.0	2.50	8.0	9.0										
	STV	1915	16.9	2.50	8.0	9.6										
9/1	STV	830	15.0	4.00	7.7	8.5										
	STV	845	15.0	4.00	7.7	8.5										
	STV	1935	15.0	2.30	7.7	9.7										
	STO	1945	15.2	2.30	7.7	9.6										
9/7	LF	2210	14.0	3.25	7.5	9.3	2225	15.0	3.00	8.0	9.5	2215	15.2	1.50	8.0	9.4
9/20	GND						1900	13.2	2.75	7.9	9.7					
	GNS						1910	13.2	2.75	7.9	9.7					
	TND						1930	13.2	2.75	7.9	9.7					
	TWS						1950	13.2	2.75	7.9	9.7					
10/5	STO	1900	15.2	2.50	8.1	9.6										
	STV	1905	15.2	2.50	8.1	9.6										
10/6	STO	0800		2.80	7.6											
	STV	0830		2.80	7.6											
	STO	1900	13.0	3.30	8.0	9.8										
	STV	1850	13.0	3.30	8.0	9.8										
	GNS						1830	14.0	2.00	7.9	10.2					
	GND						1840	19.0	2.00	7.9	10.2					

AD-A184 685 LIMNOLOGICAL AND FISHERIES STUDIES OF THE ST MARYS RIVER MICHIGAN IN RELA (U) MICHIGAN STATE UNIV EAST LANSING MI DEPT OF FISHERIES AND WIL... 2/7

UNCLASSIFIED C R LISTON ET AL JAN 86 F/G 24/4 NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963-A

Table 12. Continued

		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
10/7	GND						0910	13.0	1.50	8.1	10.6					
	GNS						0844	13.0	1.50	8.1	10.6					
10/11	TWS						2045	11.0	3.80		12.6					
	TWD						2100	11.0	4.30		13.0					
11/1	TWS						1948	9.0	2.00	7.9	10.8					
	TWD						2005	9.0	1.30	7.7	10.8					
11/3	GNS						1740	9.3	1.40	7.5	11.2					
	GND						1750	9.2	1.30	7.7	11.4					
	STO	1800	8.8	3.60	7.4	11.4										
	STV	1810	8.8	4.25	7.5	11.3										
11/4	GNS						0910	7.0	1.50	7.5	11.1					
	GND						0850	7.2	1.30	7.5	11.5					
	STO	0825	7.0	2.25	7.4	10.5										
	STV	0805	7.0	2.70	7.5	10.5										

[1] Gears as follows: GNS, gill net shallow; GND, gill net deep; LF, larval fish; STV, small trap net in vegetation; STO, small trap net in open water; TWS, Trawl shallow; TWD, trawl deep.

Table 13. Physical and chemical measurements taken at Station III during larval, juvenile and adult fish sampling, St. Marys River, 1982.

		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
2/1	GNS								0.43							
	GND								0.44							
2/10	GNS							0	1.50							
	GND							0	0.95							
2/18	GNS							0	1.00							
	GND							0	1.10							
2/24	GNS							0	0.54							
	GND							0	0.48							
3/3	GNS							0	2.15							
	GND							0	1.00							
3/10	GNS								0.66							
	GND							0.5	0.43							
3/17	GNS							1.0	1.45							
	GND							0.5	1.25							
5/11	LF	2320	11.0	3.45	7.9	13.8	2352	5.2	2.10	7.6	13.6	1117	5.0	1.60	7.6	14.3
5/17	GND						1930	5.0	1.90		14.3					
	GNS						2000	5.0	1.90		14.3					
	STO	2030	10.5	2.30		12.7										
	STV	2120	10.5	2.30		12.7										
5/18	GND						0830	5.3	2.20	7.7	13.3					
	GNS						0900	5.3	2.20	7.7	13.3					
5/21	STO	1000	9.2	2.30	7.8	12.6										
	STV	1030	9.2	2.30	7.8	12.6										
	STO	2000	15.0	2.90	8.4	12.3										
	STV	2010	15.0	2.90	8.4	12.3										
5/26	LF	2238	13.2	1.90	8.0	11.2	2247	13.0	1.90	7.8	12.0	2240	9.2	1.80	7.6	12.2
6/10	GNS						2045	11.0	2.50	7.9	10.6					

Table 13. Continued

		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
6/10	GND						2100	11.0	2.50	7.9	10.6					
6/16	LF	2325	10.0	1.40	6.6		2345	10.0	1.20	6.6		2310	9.5	1.40	7.8	11.7
6/24	STO	0930	13.0	2.10		9.4										
	STV	0950	13.0	2.10		9.4										
	STO	2020	13.0	1.75		9.8										
	STV	2040	13.0	1.75		9.8										
6/25	STO	0910	13.0	2.00		9.6										
	STV	0940	13.0	2.00		9.6										
6/29	TWS						2320	14.5	1.90		12.1					
	TWD						2340	14.5	1.90		12.1					
6/30	LF	2310	14.0	2.50	8.2	8.6	2330	13.0	2.50	7.8	9.5	2315	13.2	2.00	8.1	9.1
7/6	GND						2050	17.0	1.90	7.8	9.2					
	GNS						2050	17.0	1.90	7.8	9.2					
7/7	GND						0930	15.0	1.75		7.2					
	GNS						0930	15.0	1.80		7.2					
7/13	LF	2250	16.0	1.75	7.8	9.5	2315	14.0	2.25	8.1	10.2	2253	13.8	1.50	7.9	10.2
7/19	STV	1045	16.0	1.75	7.6	8.8										
	STO	1105	15.2	1.75	7.6	9.2										
	STV	1950	19.8	1.75	8.4	10.2										
	STO	1955	18.0	1.75	8.4	9.9										
7/20	STV	0700	15.0	2.00	7.7	10.9										
7/29	LF	2240	19.5	1.75	8.0	8.7	2300	18.0	1.75	8.1	9.3	2240	18.0	1.50	7.7	9.4
8/2	GND						2110	18.0	1.80	8.1	9.4					
	GNS						2120	18.0	1.80	8.1	9.4					
8/3	GNS						1030	17.0	2.60	7.7	8.8					
	GND						1045	17.0	2.60	7.7	8.8					
8/9	STV	1105	16.1	2.3	7.7	8.8										
	STO	1055	16.0	2.3	7.7	8.6										

Table 13. Continued

		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
8/9	STV	1905	17.5	2.0	8.2											
	STO	1915	17.0	2.0	8.2											
8/10	STV	0930	14.2	2.25	7.7	8.4										
	STO	0940	14.2	2.25	7.7	8.4										
8/16	LF	2215	20.0	2.25	8.0	9.5	2240	18.5	2.50	8.0	10.0	2220	17.9	1.5	8.0	10.0
8/17	TWD						2240	17.5	2.75		8.6					
	TWS						2320	17.5	2.75		8.6					
8/25	LF	2145	19.0	2.50	8.1	8.8	2200	18.0	2.50	8.1	9.5	2150	17.4	2.25	8.0	9.5
8/30	GNS						2020	15.8	2.20		9.8					
	GND						2030	15.4	2.20		9.6					
	GNS						0930	15.0	3.10		8.6					
	GND						0945	15.0	3.10		8.6					
9/1	STV	2035	15.2	5.20	7.5	9.4										
	STO	2045	15.1	5.20	7.5	9.6										
9/2	STV	0830	16.0	3.00	7.8	8.2										
	STO	0845	16.0	3.00	7.8	8.2										
	STV	1900		2.75	7.7											
	STO	1910		2.75	7.7											
9/7	LF	2125	15.5	3.00	8.0	8.9	2140	15.0	1.75	8.1	9.4	2130	15.2	1.50	8.0	9.4
9/9	GND						2025	16.0	2.75	7.9	9.7					
	GNS						2035	15.0	2.75	7.9	9.7					
9/10	GND						0930	14.8	3.75	8.0	10.2					
	GNS						0950	14.8	3.75	8.0	10.2					
9/27	TWD	2035	14.0	2.50	8.0	9.8										
	TWS	2050	14.0	2.50	8.0	9.8										
10/4	STO	1910	15.5	4.00		10.4										
	STV	1910				10.4										

Table I3. Continued

		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
10/5	STO	0800	12.0	4.25												
	STV	0830	12.0	4.25												
	STO	1830	16.0	2.40	8.5	9.0										
	STV	1840	16.0	2.40	8.5	9.0										
10/11	TWS						2000	11.0	2.40		12.5					
	TWD						2015	11.0			13.0					
10/19	GNS						1750	10.0	2.60		11.0					
	GND						1740	10.0	1.70		11.0					
11/1	TWS						1840	9.0	1.60	7.9	10.6					
	TWD						1900	9.0	2.20	8.2	10.7					
11/8	GNS						1718	7.0	2.20	7.9	11.2					
	GND						1730	7.0	2.00	7.6	11.0					
11/9	GNS							6.0	1.60	7.6	11.4					
	GND							6.0	1.60	7.8	11.0					
11/16	STV	0925	2.5	4.6		10.8										
	STO	1620	4.0	3.5		11.0										
11/17	STO	0940	3.0	3.9	8.1	12.0										

[1] Gears as follows: GNS, gill net shallow; GND, gill net deep; LF, larval fish; STV, small trap net in vegetation; STO, small trap net in open water; TWS, Trawl shallow; TWD, trawl deep.

Table I4. Physical and chemical measurements taken at Station IV during larval, juvenile and adult fish sampling, St. Marys River, 1982.

		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
2/1	GNS								0.45							
	GND								3.60							
2/10	GNS							0.0	0.60							
	GND							0.0	2.55							
2/18	GNS							0.0	4.50							
	GND							0.0	0.70							
2/24	GNS							0.0	0.48							
	GND							0.0	3.00							
3/3	GNS							0.0	1.45							
	GND							0.0	1.00							
3/10	GNS								0.54							
	GND							0.5	0.48							
3/17	GNS								0.90							
	GND								3.50							
5/10	GND						1930	8.0	2.40	7.9	14.4					
	GNS						1945	8.0	2.40	7.9	14.4					
	STO	2000	8.0	5.9	7.9	12.4										
	STV	2030	8.0	5.9	7.9	12.4										
5/11	GND						0930	4.8	2.05	7.8						
	GNS						0945	4.8	2.05							
	LF	2134	11.0	3.10	8.0	13.2	2213	6.9	2.60	7.9	14.4	2201	5.0	2.10	7.6	14.1
5/26	LF	2131	15.0	3.70	8.1	10.6	2210	13.5	2.50	8.1		2140	10.5	2.40	7.9	11.8
6/1	GNS						2130	11.2	2.80	7.7	10.6					
	GND						2145	11.2	2.80	7.7	10.6					
6/16	LF	2250	9.0	1.30	6.1	11.6	2230	10.9	1.70	5.7	11.2	2215	10.0	1.10	6.3	11.6
6/24	STO	0910	12.0	1.90		9.0										
	STV	0920	12.0	1.90		9.0										

Table 14. Continued

		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
6/25	STO	0825	12.0	5.50		8.6										
	STV	0850	12.0	5.50		8.6										
6/28	TWS						2220	14.0	2.20		11.8					
	TWD						2240	14.0	2.20		11.8					
6/30	LF	2215	15.0	2.25	8.4	8.1	2240	12.0	1.75	7.7	9.3	2200	13.5	1.50	7.8	9.8
7/6	GND						2030	16.3	2.20	8.0	9.2					
7/7	GND						0830	16.0	2.00		9.5					
	GNS						0830	16.0	2.00		9.5					
7/13	LF	2210	17.5	8.00	7.5	8.5	2225	16.0	7.50	8.0	9.6	2159	14.5	1.50	7.9	9.8
7/19	ST	1125	15.5	1.75	7.8	9.4										
	ST	1145	15.5	1.75	7.8	9.4										
	ST	2010	16.5	1.75	8.5	10.2										
	ST	2020	18.0	1.75	8.5	9.9										
7/20	ST	0615	15.0	1.75	8.0	10.0										
	ST	0635	15.0	1.75	8.0	9.9										
7/21	TW						2200	16.2	1.60		10.2					
	TW						2225	16.8	1.70		9.9					
	TW						2335	16.4	1.70		9.5					
	TW						2300	17.0	1.70		9.3					
7/29	LF	2150	21.0	2.50	8.2	8.3	2210	18.5	1.75	8.1	9.7	2154	18.5	1.75	7.9	9.3
8/2	GND						2050	17.6	2.00	8.0	9.2					
	GNS						2030	17.6	2.00	8.0	9.2					
8/3	GNS						0930	18.0	2.90	7.8	8.8					
	GND						0950	18.0	2.90	7.8	8.8					
8/9	STV	1005	17.0	2.00	7.5	7.9										
	STO	1025	16.2	2.00	7.5	8.9										
	STV	1950	18.0	1.50	7.6											
	STO	1940	16.5	1.50	7.6											

Table I4. Continued

		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
8/10	STV	1025	15.0	3.25	7.8	9.1										
	STO	1015	15.0	3.25	7.8	9.1										
8/16	LF	2110	20.0	1.75	8.2	10.0	2145	18.5	2.50	8.2	9.2	2110	18.0	1.50	8.1	10.0
8/17	TWD						2145	17.5	2.50		8.6					
	TWS						2205	17.5	2.50		8.6					
8/25	LF	2105	19.0	3.25	8.0	9.1	2120	17.9	2.50	8.1	10.0	2105	17.2	2.25	8.1	9.7
8/30	GNS						1945	15.2	2.50		9.8					
	GND						2000	15.2	2.50		9.6					
	GNS						0830	15.0	3.40		8.6					
	GND						0845	15.0	3.40		8.6					
9/1	STV	1952	16.2	6.00	7.7											
	STO	2011	16.2	6.00	7.7											
9/2	STV	0930	15.0	3.25	7.9	8.6										
	STO	0915	15.0	3.25	7.9	8.6										
	STO	1930		4.25	7.7											
	STV	1940		4.25	7.7											
9/7	LF	2040	15.5	4.50	7.8	9.1	2105	14.9	2.25	8.0	9.4	2050	15.0	1.75	8.0	9.6
9/9	GND						2005	15.0	2.75	8.0	9.6					
	GNS						2000	15.0	2.75	8.0	9.7					
9/10	GND						0815	14.8	3.25	8.0	10.1					
	GNS						0845	14.8	3.25	8.0	10.1					
9/27	TWD						1930	14.2	2.00	8.0	11.4					
	TWS						2000	14.2	2.00	8.0	11.4					
10/4	STO	1940	14.0	4.00		10.0										
	STV	1940	14.0	4.00		10.0										
10/5	STO	0900	12.0	13.00												
	STV	0930	12.0	13.00												

Table 14. Continued

		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
10/5	STO	1835	15.5	6.40	7.8											
	STV	1855	15.5	6.40	7.8											
10/11	TWS						1945	11.0								
	TWD						1930	11.0	2.40		13.0					
10/19	GNS						1730	9.5	2.70		11.1					
	GND						1720	9.5	2.50		11.2					
11/1	TWS						1751	9.0	2.00	8.3	10.7					
	TWD						1815	9.0	2.40		10.7					
11/8	GNS						1650	6.0	5.50	7.9	13.0					
	GND						1645	6.0	2.00	7.7	12.5					
11/9	GNS							6.0	2.10	7.8	12.0					
	GND							6.0	1.90	7.9						
11/16	STV	0835	0.5	14.0		11.2										
	STO	0850	0.5	14.0		11.2										
	STV	1550	2.0	19.0		11.0										
	STO	1600	2.0	19.0		11.4										
11/17	STV	0900	1.3	24.0	8.0	12.1										
	STO	0910	1.7	24.0	8.0	12.1										

[1] Gears as follows: GNS, gill net shallow; GND, gill net deep; LF, larval fish; STV, small trap net in vegetation; STO, small trap net in open water; TWS, trawl shallow; TWD, trawl deep.

Table 15. Physical and chemical measurements taken at Station V during larval, juvenile and adult fish sampling, St. Marys River, 1982.

		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
1/27	GND								2.00							
	GNS								0.52							
2/4	GND							0.0	3.75							
	GNS							0.0	1.00							
2/8	GNS								2.50							
	GNS								1.00							
2/16	GND							0.0	0.60							
2/22	GNS							0.0	1.25							
	GND							0.0	0.50							
3/1	GNS							0.5	7.40							
	GND							0.5	0.64							
3/8	GNS							0.0	2.25							
	GND							0.0	1.25							
3/15	GNS							0.0	3.40							
	GND							0.0	1.90							
5/7	GND						1945	7.0	8.60		11.8					
5/8	ST	0745	9.0	19.0		10.6										
	ST	1940	12.9	27.5		10.2										
5/11	LF	2130	12.5	26.0	7.7	11.0						2230	7.0	5.50	7.7	12.5
5/18	LF	2330	13.0	12.5		10.8						2245	10.0	5.00		12.4
5/19	LF						0100	13.0	12.50		11.9					
5/25	LF	0000	12.0	9.7	8.7	12.4	2340	15.5	13.00	8.8	12.4	2300	12.5	6.10	8.2	9.0
5/26	GN						2200	14.2	5.10	7.9	12.0					
5/27	TWS						2140	16.0	9.60	8.1	12.3					
	TWD						2215	13.0	8.60	8.3	12.6					
6/4	ST	2115	16.5	21.0	8.2	10.5										
6/5	ST	0800	12.0	23.0	8.1	10.2										

Table 15. Continued

		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
6/8	GN						2200	15.0	14.00	8.2	11.7					
6/10	LF	2130	16.0	25.00	8.0	10.0	2155	16.0	19.00	8.0	11.0	2215	13.0	4.00	8.2	12.6
6/22	LF	0209	14.0	22.00	8.2	9.0	0145	14.0	32.00	8.3	9.7	0120	10.9	3.00	7.9	11.8
	GND						2215	11.5	2.50	8.3	12.0					
	GNS						2230	14.5	24.00	7.8						
6/23	TWS						2350	16.0	38.50	8.4	10.3					
6/24	TWD						0015	13.9	3.40	8.2	12.1					
7/6	LF	0100	18.0	18.00	8.4		0045	17.5	13.00	8.5		0010	17.0	3.90	8.2	
7/7	ST	0700	17.8	22.00	7.7											
	ST	2100	19.5	18.00	8.6	9.0										
7/19	LF	2215	20.5	67.00	8.2	8.7	2245	20.0	75.00	8.1	8.2	2305	15.8	3.60	7.7	9.6
7/20	TWS						2200	20.5	51.00	8.2						
	TWD						2225	19.5	41.00	8.3						
7/21	GNS						2115	18.0	19.00	7.8	10.4					
	GND						2130	17.0	14.00	8.5	10.4					
8/11	ST	0730	16.0		8.0	8.0										
	ST	2100	16.0		7.8	8.8										
8/12	LF	2130	20.5		7.7	7.2	2145	18.0	92.00	8.0	9.0	2230	15.0	5.00	8.1	9.6
8/13	GND						2000	16.5	3.00	8.0	9.1					
	GND						2015	18.0	41.00	7.8	9.3					
8/23	TWS						2315	17.0	32.00	8.0	8.7					
	TWD						2345	17.0	4.20	7.6	9.2					
8/24	LF	2135	18.0	39.00	7.6	8.0	2210	17.5	44.00	8.00	10.0	2230	17.0	3.90	8.0	12.6
8/25	GND						2000	17.2	4.00	7.6	10.6					
	GNS						2015	17.9	31.00	8.2	10.6					
9/7	LF	2100	17.0	57.00	7.5	8.3	2120	16.0	55.00	7.8	9.3	2145	15.0	4.10	7.9	9.9
9/8	ST	0800	14.5	52.00	7.8	8.2										
	ST	1915	16.0	46.00	7.6	10.8										

Table 15. Continued

		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
9/22	TWS						2100	15.0	20.00		10.0					
	TWD						2130	13.0	3.50		10.6					
9/23	GND						1930	14.0			10.0					
	GNS						2000	13.5			9.8					
10/3	ST	1830	15.0	85.00	7.8	9.2										
10/4	ST	0900	13.5	65.00		9.0										
10/5	GND						1800	13.0	5.00	7.9	10.2					
	GNS						1815	14.0	52.00	7.9	9.4					
10/18	TWS						2100	9.0	7.00	7.8	10.6					
	TWD						2130	8.5	5.00	7.8	10.5					
10/19	GND						1745	9.0	4.00	7.6	10.8					
	GNS						1809	9.0	11.00	7.7	11.0					
11/9	ST	1645	5.0	47.00	7.4	11.8										
	TWS						2015	4.0	55.00	7.7	10.8					
	TWD						2045	5.0	6.80	7.6	10.6					
11/10	ST	0900	3.5		7.7	12.4										
11/17	GND						1600	5.0	3.90	7.7	11.6					
	GNS						1615	3.0	7.80	7.7	12.1					

[1] Gears as follows: GNS, gill net shallow; GND, gill net deep; LF, larval fish; STV, small trap net in vegetation; STO, small trap net in open water; TWS, trawl shallow; TWD, trawl deep.

Table 16 Physical and chemical measurements taken at Station VI during larval, juvenile and adult fish sampling, St. Marys River, 1982.

		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
1/26	GND								0.60							
	GNS								0.95							
2/4	GNS							0.0	1.20							
	GND							0.0	1.05							
2/8	GNS								0.90							
	GND								1.40							
2/16	GNS							0.0	0.85							
	GND							0.0	1.05							
2/22	GNS							0.0	0.75							
	GND							0.0	0.75							
3/1	GNS							0.0	0.63							
	GND							0.5	1.30							
3/8	GNS							0.0	1.05							
	GND							0.0	1.50							
3/15	GNS							0.0	2.00							
	GND							0.0	1.60							
5/7	GN						2030	7.0	7.20		12.0					
5/8	ST	0945	9.5	14.90												
	ST	2140	13.5	36.50		9.7										
5/12	LF						0300	9.5	12.50	7.9	12.5	0130	7.0	5.50	7.8	12.8
5/18	LF	2130	13.0	14.00		12.1	2145	12.0	5.60		12.3	2205	7.0	4.10		12.7
5/19	LF											0050	7.5	4.60		12.5
5/25	LF	2135	13.0	8.70	8.5	12.0	2205	13.5	9.70	8.7	12.2	2230	12.0	6.00	7.7	11.9
5/26	GN						2130	10.0	2.60	7.8	13.0					
5/27	TWS						2250	13.0	4.90	8.5	13.0					
5/28	TWD						0020	11.0	3.10	8.2	13.5					
							0130	12.5	5.50	8.2	12.2					

Table I6. Continued

		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
6/4	ST	2150	14.5	20.00	8.3	11.0										
6/5	ST	0840	12.0	21.00	8.4	10.6										
6/8	GN						2130	14.0	11.00	8.1	11.0					
6/10	LF	2345	15.5	25.00	8.0	10.2	2330	16.0	35.00	8.2	10.1	2245	12.0	5.50	8.1	12.9
6/21	LF	0030	15.0	40.00	8.3	9.2	0100	15.0	38.00	8.4	8.8	2340	11.7	6.10	8.1	11.1
6/22	GND						2130	11.9	2.60	8.2	12.5					
	GNS						2145	15.2	32.00	8.4	11.8					
6/23	TWS						2300	16.5	36.00	8.5	10.0					
	TWD						2330	15.0	21.00	8.5	11.5					
7/6	LF	0145	18.0	17.00	8.7		0200	17.5	15.00	8.6		0230	17.5	14.00	8.2	
7/7	ST	0750	17.0	17.00	7.6											
		2145	19.0	41.00	8.6	9.3										
7/19	LF	2355	19.0	78.00	8.2	7.4	0015	19.0	66.00	8.2	7.6	0040	15.0	3.20	7.7	9.8
7/20	TWS						2330	15.8	18.00	8.5	10.4					
	TWD						2300	15.2	7.70	8.3						
7/21	GNS						2150	16.5	6.20	8.5	9.8					
	GND						2200	18.0	6.20	8.3	9.4					
8/11	ST	0830	16.0		8.1	8.2										
	ST	1930	16.0		8.1	9.2										
8/12	LF	2345	17.5		7.7	8.0	2330	18.0		8.0	8.2	2250	15.0	6.00	8.0	8.2
8/13	GND						2030	17.0	4.20	8.1	9.1					
	GNS						2045	17.0	24.00	8.1	9.3					
8/23	TWS						2145	17.8	51.00	7.8	9.9					
	TWD						2215	17.0	8.30	8.0	8.9					
8/24	LF	2315	17.2	96.00	8.1	11.2	2335	17.0			9.1	2400	17.0	4.50	8.0	9.8
8/25	GND						2030	17.0	4.40	8.0	10.2					
	GNS						2045	17.2	44.00	8.2	9.0					
9/7	LF	2300	14.6	86.00	7.6	8.6	2310	15.0	53.00	7.9	9.7	2230	15.0	4.20	7.9	10.0

Table I6. Continued

		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
9/8	ST	0845	14.0	97.00	7.8	8.4										
	ST	2000	16.0	56.00	7.9	10.6										
9/22	TWS						2200	13.5	16.00		10.6					
	TWD						2235	13.5	4.70		10.4					
9/23	GND						2009	13.5			9.6					
	GNS						2030	13.0			9.8					
10/3	ST	1915	14.0	85.00	7.8	9.3										
10/4	ST	0945	13.0	70.00		9.7										
10/5	GND						1845	13.0	6.70	7.9	9.6					
	GNS						2000	13.0	13.00	7.9	9.4					
10/18	TWS						2200	9.0	8.00	7.8	11.6					
	TWD						2225	8.5	6.00	7.8	10.8					
10/19	GND						1815	9.0	5.00	7.8	11.0					
	GNS						1845	9.0	7.00	7.7	11.4					
11/9	ST	1715	5.0	32.00	7.5	11.8										
	TWS						2140	4.0	8.50		11.0					
	TWD						2200	5.0	11.00	7.7	10.9					
11/10	ST	1000	3.0	10.00	7.7	12.4										
11/17	GND						1630	5.0	3.70	7.6	11.8					
	GNS						1645	3.0	11.00	7.6	12.2					

[1] Gears as follows: GNS, gill net shallow; GND, gill net deep; LF, larval fish; STV, small trap net in vegetation; STO, small trap net in open water; TWS, trawl shallow; TWD, trawl deep.

Table 17. Physical and chemical measurements taken at Station VII during larval, juvenile and adult fish sampling, St. Marys River, 1982.

		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
1/26	GNS								0.75							
	GND								0.65							
2/4	GNS							0.0	1.50							
	GND							0.0	0.98							
2/8	GNS							0.0	1.50							
	GND							0.0	0.90							
2/16	GNS							0.0	1.20							
	GND							0.0	0.95							
2/22	GNS							0.5	1.25							
	GND							0.5	0.50							
3/1	GNS							0.0	0.79							
	GND							0.0	0.57							
3/8	GNS							0.0	1.25							
	GND							0.0	1.10							
3/15	GNS							0.0	1.15							
	GND							0.0	0.90							
5/5	ST	2030	10.8			9.3										
	ST	2110	6.0			11.6										
5/6	ST	0725	8.2			10.4										
5/12	LF	2130	13.0	7.50		11.9	2140	12.0	7.50		11.9	2210	8.0	5.00		12.4
5/19	LF	0150		8.20		9.7	0135	14.0	8.70		11.1					
5/26	LF	0150	16.0	7.00	7.7	9.7	0130	17.0	9.00	8.5	11.0	0050	12.0	5.40	8.3	11.1
	GN						2230	13.0	4.30	7.8	12.9					
5/28	TWS						0100	14.0	5.00	8.2	12.2					
6/5	ST	2215	17.0	8.50	8.7	11.8										
6/6	ST	0730	13.0	7.30	8.1	11.4										
6/8	GN						2230	13.0	6.60	7.9	11.1					

Table 17. Continued

		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
6/11	LF	0115	16.0	17.00	7.9	9.4	0100	16.0	13.00	8.1	10.7	0015	13.0	8.00	8.1	12.6
6/21	LF	2145	16.5	6.90	8.2	11.8	2215	12.5	5.80	8.6	12.6	2300	11.0	2.80	8.2	12.4
6/22	GNS						2315	13.5	6.80	8.1	11.0					
	GND						2300	12.0	5.10	8.2	11.5					
6/23	TWS						2210	13.8	11.00	8.6	11.7					
	TWD						2240	13.5	11.00	8.4	12.0					
7/6	LF	2240	22.0	11.00	8.2	7.8	2305	21.3	12.00	8.0	8.5	2330	16.0	4.10		8.9
7/8	ST	0845	19.8	8.80	7.7	8.4										
	ST	2130	21.5		8.5	9.0										
7/20	LF	0220	18.0	5.80	7.9		0200	16.5	9.10	8.1		0115	16.0	4.90	8.0	
	TWS						0020	18.5	11.00	8.5						
	TWD							17.5	8.30	8.0						
7/21	GN						2220	18.0	5.30	8.3						
	GN						2230	19.5	10.00	8.4						
8/9	ST	2115	19.0	18.00	8.3	10.0										
8/10	ST	0845	16.0	12.00	8.4	9.5										
8/13	LF	0105	17.5	19.00	7.5	8.2	0050	17.0	24.00	7.8	9.5	0030	15.0	5.00	7.9	9.2
	GND						2100	17.0	17.00	8.0	8.6					
	GNS						2115	16.0	32.00	8.0	8.2					
8/23	TWS						0030	17.5	18.00	7.8	9.9					
	TWD						0100	17.5	14.00	7.8	9.9					
8/25	LF	0120	17.0	20.00	7.8	8.6	0100		18.88	7.9		0030	17.0	3.90	8.0	9.8
	GND						2100	17.2	6.60	8.0						
	GNS						2115	17.0	21.00	8.1						
9/8	LF	0050	16.0	18.00	7.8	8.4	0040	15.0	22.00	8.0	9.4	0005	14.5	3.10	7.9	9.1
9/9	ST	0900	17.0	22.00	7.5	7.7										
	ST	2020	20.0	17.00	7.9	9.8										

Table 17. Continued

		Zone 1 Upper Littoral, <1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
9/22	TWS						2330	13.5	10.00		10.2					
	TWD						0100	13.0	7.50		10.1					
9/23	GND						2100	13.0			9.6					
	GNS						2130	14.0			8.6					
10/4	ST	1945	14.0	59.00	7.8	8.8										
10/5	ST	0800	13.0	46.00	7.6	8.7										
10/6	GND						2045	13.0	8.00	8.0	9.4					
	GNS						2100	14.0	13.00	8.0	8.4					
10/18	TWS						2300	9.0	23.00	7.8	10.6					
	TWD						2315	9.0	15.00	7.8	10.6					
10/19	GND						1900	9.0	6.00	7.8	11.2					
	GNS						1915	9.0	18.00	7.8	11.0					
11/8	ST	1700	5.0	10.00	7.5	11.4										
11/9	TWS						2240	5.0		7.8	10.9					
	TWD						2300	5.0		7.7	10.6					
	ST	0800	4.0	11.00	7.4	11.5										
11/17	GND						1700	4.0	8.00	7.6	11.8					
	GNS						1715	2.0	19.00	7.5	12.5					

[1] Gears as follows: GNS, gill net shallow; GND, gill net deep; LF, larval fish; STV, small trap net in vegetation; STO, small trap net in open water; TWS, trawl shallow; TWD, trawl deep.

Table 18. Physical and chemical measurements taken at Station I during larval, juvenile and adult fish sampling, St. Marys River, 1983.

		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
1/27	GNS							0.0	0.50							
	GND							0.0	0.60							
1/28	GNS							0.0	0.40							
	GND							0.0	0.80							
2/2	GNS						1042	0.0	0.50							
	GND						1110	0.0	0.40							
2/3	GNS						1140	0.0	0.40							
	GND							0.0	0.50							
2/9	GNS						1030	0.0	0.50							
	GND						1100	0.0	0.80							
2/10	GNS						1030	0.0	0.60							
	GND						1130	0.0	0.50							
2/16	GNS						1000	0.0	0.50							
	GND						1030	0.0	0.70							
2/17	GNS						1030	0.0	0.10							
	GND						1100	0.0								
2/21	GNS						1636	0.5	0.61							
	GND						1700	0.5	0.55							
2/22	GNS						1000		0.65							
	GND						1030		0.59							
2/23	GNS						2100	0.0	0.44							
	GND						0930	0.0	0.37							
4/22	LF	1755	8.2	14.00		11.4	1730	3.5	3.00		12.7	1845	2.0	0.70		13.0
4/26	GNS						1950	7.8			12.4					
	GND						1940	3.0			12.7					
	LF	0840	12.0	6.40		11.8	0905	7.8	4.40		12.4	0920	3.1	0.90		12.5
5/4	LF						2140	5.8	1.50		12.8	2045	3.5	0.50		14.2

Table 18. Continued

		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
5/9	LF	2103	7.0	7.3		10.0	2120	9.8	1.6		11.8	2146	4.2	0.5		12.1
	STO	- 2050	8.0	73.0		10.0										
	STV	2100		7.3												
5/10	STV	1000		7.5												
	GN						2000	4.0	1.2							
5/16	LF	2140	8.2	6.3		10.4	2205	7.0	3.6			2115	4.0	0.6		11.4
6/1	LF		13.8	6.6	7.8	9.7		10.2	2.6	7.6	10.2		4.0	0.6	7.4	11.6
6/8	STO	0930	9.5	13.0		11.9										
	STV	0945	9.2	18.0		10.4										
6/15	LF	2210	11.6	3.0	8.5	11.6						2133	7.8	0.75	8.0	13.2
6/21	GND						2120	13.2	0.75		11.1					
	GNS						2135	14.4	1.50		11.3					
	TWD						2220	13.9	0.75		10.9					
6/29	LF	2230	18.0	27.0	8.5		2210	17.6	2.2	8.5	10.0	2145	15.0	1.1	8.6	10.4
7/11	STO	2144	21.0	3.9												
	GNS						2210	19.0	2.1							
	GND						2200	16.0	0.5							
7/12	STO	0916		5.7												
	STV	0901		0.4												
	TWS						2200	17.1	1.8		11.2					
	TWD						2215	17.1	1.8		11.2					
7/13	LF	2157	23.1	5.8	8.1	9.0	2223	19.1	2.0	8.4	10.2	2233	16.5	0.8	8.6	10.1
7/26	LF	2120	26.1	6.2	8.1	8.9	2142	22.9	7.1	8.2	8.7	2156	20.1	0.7	8.0	9.3
8/9	LF	2120	23.0	10.0	8.3	7.8	2134	21.4	1.9	8.2	9.3	2155	20.9	0.6	8.0	8.7
8/15	GNS						2020	22.8	2.8		8.8					
	GND						2108	21.0	0.7		8.6					
	STO	2035	23.0	11.0		8.4										
	STV	2050	25.2	7.6		8.0										

Table 18. Continued

Date	Gear[1]	Zone 1 Upper Littoral, ≤1.5 m Time	Temp.	Turb.	pH	D.O.	Zone 2 1.5 - 8 m Time	Temp.	Turb.	pH	D.O.	Zone 3 Channel, 8 - 9 m Time	Temp.	Turb.	pH	D.O.
8/16	STO	0840	22.2	7.6		7.9										
	STV	0900	23.5	4.8		6.3										
	TWS							21.8	0.9		8.8					
	TWD							21.8	0.7							
8/24	LF	2048	22.3	14.0	8.2	7.9	2110	20.0	6.7	8.1	8.5	2123		0.7	8.0	8.6
9/8	LF	2137	20.5	5.2	8.0	7.9	2115	21.5	21.0		9.9	2050	20.0	1.4	7.9	9.8
9/14	TWS						2014	18.5	3.7		9.3					
	TWD						2050	18.3	3.0		9.4					
9/20	STO	0800	15.2	32.0		8.7										
	STV	0840	14.8	27.0		8.8										
9/26	GNS						1830	16.1	1.6		8.7					
	GND						1900	16.2	0.9		9.5					
10/10	STO	1815		8.5												
	STV	1820		29.0												
10/11	STO	0900	11.0	12.5		10.3										
	STV	0915	9.8	16.0		9.8										
	TWS						1920	13.2	3.0		10.0					
	RWD						1940	13.4	2.2		9.8					
10/19	GNS						1755	10.2	2.7		11.2					
	GND						1805	11.5	3.5		10.0					
11/14	STO	0850		32.0												
11/15	STO	1530		36.0												
	GND						1630	7.0	2.2							
	GNS						1640	7.0	2.9							
	TWS						1710	7.0	0.9							

[1] Gears as follows: GNS, gill net shallow; GND, gill net deep; LF, larval fish; STV, small trap net in vegetation; STO, small trap net in open water; TWS, trawl shallow; TWD, trawl deep.

Table 19. Physical and chemical measurements taken at Station II during larval, juvenile and adult fish sampling, St. Marys River, 1983.

		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
1/26	GNS							0.0	0.50							
	GND							0.0	0.80							
1/27	GNS							0.0	0.60							
	GND							0.0	0.60							
1/31	GNS						1400	1.0	0.50							
	GND						1444	1.0								
2/1	GNS						1350	0.0	0.50							
	GND						1400	0.0	0.50							
2/9	GNS						1430	0.0	0.60							
	GND						1500	0.0	0.50							
2/10	GNS						1500	0.0	0.70							
	GND						1530	0.0	0.70							
2/14	GNS						1500	0.0	0.50							
	GND						1530	0.0	0.40							
2/15	GNS						1327	0.0	0.40							
	GND						1347	0.0	0.60							
2/21	GNS						1430	0.0	0.63							
	GND						1305	0.0	0.65							
2/23	GNS						1230	0.0	0.84							
	GND						1330	0.0	0.73							
2/24	GNS						1310		1.50							
	GND						1344		0.60							
2/28	GNS						1023	0.5	0.50							
	GND						1047	0.0	0.60							
3/1	GNS						0940	0.0	0.60							
	GND						1021	0.0	1.00							
3/2	GND							0.0								

Table 19. Continued

		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
3/3	GNS							0.0	0.60							
4/12	GNS						1900	5.0	7.90							
	GND						1915	2.0	1.30							
4/27	LF	2155	11.2			10.9	2135	5.7			13.6	2110	5.3			13.8
5/3	LF	0050	8.0	1.80		10.3	2350	5.5	1.80	7.5	11.7					
5/4	ST	2000	7.0	7.20		11.2										
5/5	LF											2200	4.0	0.90		
5/10	LF	0020	10.0	5.40		10.6	0005	7.2	2.50		11.1	2340	4.8	1.00		11.3
5/12	GND						2000	5.3	1.60		12.2					
	GNS						1950	8.9	1.50		13.7					
5/24	LF	2240	10.8	1.90	7.6	9.7	2220	7.0	1.00	7.8	11.1	2200	6.3	0.80	7.7	12.6
5/26	TWS						2030	6.0	1.00		12.6					
	TWD						2044	5.0	1.00		13.0					
5/31	LF	0035	11.1	4.70	7.7	9.9	0020	8.0	5.40	7.8	11.1	2355	6.2	1.70	7.9	15.8
6/6	STO	0942	11.0	3.40												
	STV	1000	11.0	3.20												
6/14	LF	0039	16.5	2.00		9.4						0015	10.0	2.00		10.8
6/20	TWS						2250	15.0	1.90		9.8					
	TWD						0008									
6/22	GND						2053	13.4	1.20		10.5					
	GNS						2122	16.0	1.40		10.2					
6/27	LF	0143	18.2	2.25	7.6	7.2	0127	16.0	3.00	8.2	10.2	0103	15.0	1.48	8.1	10.5
7/5	STO	0905	16.1	2.80		7.7										
	STV	0915	16.1	2.60		7.7										
	STO	2030	18.0	1.70		9.8										
	STV	2100	20.0			8.1										
7/7	TWD	2200	15.0	2.70		10.3										
	TWS	2235	16.0	2.60		9.5										

Table 19. Continued

		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
7/11	STO	2144	21.0	3.90												
	STV	2200														
	GNS						2210	19.0	2.10							
	GND						2220	16.0	0.50							
7/12	LF	0140	20.9	2.00	7.5	7.6	0122	19.3	2.50	8.0	9.2					
	STO	0916		5.70												
	STV	0901		0.40												
	STO	2100														
	STV	2115														
	TWS						2200	17.1	1.80		11.2					
	TWD						2215	17.1	1.80		11.2					
7/13	LF	2157	23.1	5.80	8.1	9.2	2223	19.1	2.00	8.4	10.0	2233	16.5	0.80	8.6	10.1
7/14	LF											2215	18.5			10.5
7/18	GNS						2000	22.0	1.80		9.3					
	GND						2010	19.2	1.80		9.5					
7/25	LF											2210	20.0	1.50	8.3	
7/26	LF	0027	20.0	2.40		7.7	0030	18.0	2.50	8.0	9.1					
	LF	2120	26.1	6.20	8.1	8.9	2142	22.9	7.10	8.2	8.7	2156	20.1	0.70	8.0	9.3
8/1	STV	0924	22.1	2.40		6.3										
	STO	0956	21.2	2.90		7.4										
	STV	2109	22.2			7.5										
	STO	2130	22.0	1.70		7.3										
8/3	TWS						2200	20.1	1.90		9.4					
	TWD						2030	20.1	1.90		9.4					
	GND						2020	20.1	1.80		9.5					
	GNS						2130	20.0	1.80		9.5					
8/8	LF	0004		3.00	7.9		2348		2.80	8.2		0005	21.5	3.10	8.3	8.6
8/9	LF	2120	23.0	10.00	8.3	7.8	2134	21.4	1.90	8.2	9.3	2155	20.9	0.60	8.0	8.7

Table 19. Continued

Date	Gear[1]	Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
		Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
8/15	GNS						2020	22.8	2.8		8.8					
	GND						2108	21.0	0.7		8.6					
	STO	2035	23.0	11.00		8.4										
	STV	2050	25.2	7.60		8.0										
8/16	STO	0840	22.2	7.60		7.9										
	STV	0900	23.5	4.80		6.3										
	TWS							21.8	0.9		8.8					
	TWD							21.8	0.7							
8/23	LF	2306	21.3		8.8	8.8		20.0		7.7	9.5	2255	19.8		7.5	10.3
8/24	LF	2048	22.3	14.00	8.2	7.9	2110	20.0	6.7	8.1	8.5	2123		0.70	8.0	8.6
9/6	STO	1945		2.00												
	STV	2000		1.80												
	GNS						2020		2.0							
	GND						2030		2.5							
9/7	STO	0817	18.9	2.40		7.8										
	STV	0842	18.9	2.10		7.6										
	TWS						2150	20.0	2.9		8.4					
	TWD						2215	20.0	4.9		8.4					
	LF	2130	20.0	3.27	8.0		2219	20.0								
9/8	LF	2115	21.5	21.00		9.9	2137	20.5	5.2	8.0	7.9	2050	20.0	1.40	7.9	9.8
9/12	LF											2100	19.0	2.57	7.5	8.2
9/14	TWS						2024	18.5	3.7		9.3					
	TWD						2050	18.3	3.0		9.4					
9/20	STO	0800	15.2	32.00		8.7										
	STV	0840	14.8	27.00		8.8										
9/26	GNS						1830	16.1	1.6		8.7					
	GND						1900	16.2	0.9		9.5					

Table 19. Continued

		Zone 1					Zone 2					Zone 3				
		Upper Littoral, ≤1.5 m					1.5 - 8 m					Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
10/3	STO	0915	17.2	2.40		7.9										
	STO	1825	17.0	3.10		9.4										
	STV	1840	17.0	2.80		9.7										
	GNS						1750	17.2	2.40		9.2					
	GNS						1805	17.2	2.70		9.2					
10/10	STO	1315		8.50												
	STV	1820		29.00												
10/11	STO	0900	11.0	12.50		10.3										
	STV	0915	9.8	16.00		9.8										
	TWS						1920	13.2	3.00		10.0					
	TWD						1940	13.4	2.20		9.8					
10/17	TNS						2105	10.6	4.30		10.8					
	TWD						2125	10.8	4.30		10.6					
10/19	GNS						1755	10.2	2.70		11.2					
	GND						1805	11.5	3.50		10.0					
10/31	STO	1715	8.5	5.50		10.4										
	STV	1730	7.5	4.00		10.4										
11/1	STO	0915	7.5	3.00		11.0										
	STV	0945	7.5	3.50		10.2										
11/7	GNS						1750	8.6	2.50		11.0					
	GND						1730	9.0	3.20		10.9					
11/8	GNS						1415	9.2	2.70		10.6					
	GND						1430	9.2	2.60		10.5					
11/14	STO	0850	0.0	32.00												
11/15	STO	1530	0.0	36.00												
	GND						1630	7.0	2.20							
	GNS						1640	7.0	2.90							

Table 19. Continued

Date	Gear[1]	Zone 1 Upper Littoral, ≤1.5 m Time	Temp.	Turb.	pH	D.O.	Zone 2 1.5 - 8 m Time	Temp.	Turb.	pH	D.O.	Zone 3 Channel, 8 - 9 m Time	Temp.	Turb.	pH	D.O.
11/15	GND						1740	7.0	1.30							
	TWS						1710	7.0	0.90							

[1] Gears as follows: GNS, gill net shallow; GND, gill net deep; LF, larval fish; STV, small trap net in vegetation; STO, small trap net in open water; TWS, trawl shallow; TWD, trawl deep.

Table 110. Physical and chemical measurements taken at Station III during larval, juvenile and adult fish sampling, St. Marys River, 1983.

		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
1/24	GNS						1100	0.5	0.50							
	GND						1040	0.0	0.60							
1/25	GNS						1040		0.70							
	GND						1056		0.80							
1/31							1112		1.40							
	GND						1159	0.5	0.90							
2/1	GNS						1105	0.5	0.50							
	GND						1140	0.0	1.10							
2/7	GNS							0.0	0.40							
	GND							0.5	1.00							
2/8	GNS						1120	1.0	0.40							
	GND						1134	1.0	0.60							
2/14	GNS						1230	0.0	0.40							
	GND						1300	0.0	0.60							
2/15	GNS						1035	0.0	1.20							
	GND						1057	0.0	0.40							
2/21	GNS						1230	0.0	0.89							
	GND						1300	0.0	0.70							
4/18	GNS						1700	1.5	1.60		13.2					
	GND						1640	2.0	2.10		13.0					
4/21	LF											2130	2.0			12.7
5/3	STO	1029	3.0	1.70		11.8										
	STV	1045														
	LF	2250	7.0			11.4	2230	4.3	0.90	7.4	12.1					
5/5	LF											2120	4.0	0.90	7.8	
5/10	LF	2305	7.3	1.00		10.9	2245	5.3	0.70		11.7	2225	5.1	1.50		11.6

Table 110. Continued

		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
5/23	GNS						2030	6.2	1.30		11.7					
	GND						2040	6.2	1.20		11.6					
5/25	TWS						2300		1.20							
	TWD						2240		1.20							
5/26	LF	2235	7.3	2.00	7.9	12.1						2215	5.3	0.80	7.7	14.3
5/31	GNS						2045	7.0	1.50							
	GND						2055	7.0	0.90							
	LF	2235	8.3	1.70	7.5	11.0	2315	6.8	1.50	7.5	12.0	2250	6.7	1.10	7.5	13.9
6/13	STO	0930	11.1	1.80		10.5										
	STV	0950	11.0			10.4										
	STO	2040	12.3	2.00		11.8										
	STV	2050	13.0													
6/14	LF	2236	11.9	1.50		11.8						2210	10.5	1.20		12.1
6/20	TWS						2300	12.7	1.30		10.8					
	TWD						2315	12.0	1.00		10.3					
6/27	GNS						2148	16.0	1.50							
	GND						2217	15.2	1.30							
	LF	0025		2.25	7.9		0010	15.6	2.40	8.2	10.2	2344	15.3	1.50	8.3	10.3
7/6	STV	0830	14.5	2.10		9.2										
	STO	0840	14.5	1.90		9.4										
	STV	1945	18.0	2.10		10.5										
	STO	2002	17.1	2.60		10.1										
7/11	LF	0038	18.5	1.80	8.8	8.8	0020	17.0	1.90	8.3	10.0	2355	17.0	1.50	8.2	10.2
7/19	TWS						2310	19.6	2.10		8.7					
	TWD						2340	19.0	2.40		9.4					
7/20	GN						2045	20.0	1.80		9.4					
	GN						2054	19.8	3.00		9.5					
7/25	LF	2325	18.5	2.10	8.0	9.2	2306	17.5	1.80	7.6	9.5	2303	17.0	1.78	7.6	9.6

Table 110. Continued

Date	Gear[1]	Zone 1 Upper Littoral, ≤1.5 m Time	Temp.	Turb.	pH	D.O.	Zone 2 1.5 - 8 m Time	Temp.	Turb.	pH	D.O.	Zone 3 Channel, 8 - 9 m Time	Temp.	Turb.	pH	D.O.
8/2	STV	0910	20.1	1.80		7.6										
	STO	0925	20.0	2.00		8.4										
	STV	2020	24.0	1.40		8.8										
	STO	2035	21.8	1.80		9.0										
8/8	GNS						2010	22.5	2.70							
	GND						2017	21.9	2.30							
	LF	2303		3.10	8.6		2248		2.70	7.7		2245		3.30	8.4	
8/11	TWS						2225	21.0	2.50		8.4					
	TWD						2250	20.6	2.70		8.2					
8/23	LF	2218	20.0		7.9	9.4		19.5		7.8	9.8	2205	20.0		7.9	9.8
9/1	STV	0815	20.0	2.30		8.1										
	STO	0823	20.0	2.20		8.6										
	STV	1935	22.0	1.90		8.4										
	STO	1950	21.8	2.10		8.4										
9/7	TWS						2050	20.1	2.40		8.4					
	RWD						2120	20.1	3.20		8.4					
	LF	2135	20.4	2.83	7.8	8.4	2115	20.1	3.60	8.0	8.4					
9/12	GNS						2015	19.0	3.20							
	GND						2030	19.0	2.80							
	LF											2020	19.0	2.34	7.6	8.3
10/4	STO	1830		3.40												
	STV	1840		4.70												
	STO	0900	13.6	3.10		9.3										
	STV	0915	13.0	3.10		9.4										
10/17	TWS						2005	11.1	3.70		10.3					
	TWD						2030	11.0	4.20		10.5					
10/18	GNS						1820	10.8	4.50		10.0					
	GND						1830	11.0	4.40		9.9					

Table I10. Continued

		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
10/31	STO	1645	9.0	3.00		10.2										
	STV	1654	9.0	3.50		10.0										
11/1	STO	0810	8.5	2.90		10.6										
	STV	0825	8.0	3.30		10.2										
11/2	TWS						1800		3.20							
	TWD						1820		3.60							
11/7	GNS						1700	8.9	2.30		10.8					
	GND						1705	8.9	2.00		10.8					

[1] Gears as follows: GNS, gill net shallow; GND, gill net deep; LF, larval fish; STV, small trap net in vegetation; STO, small trap net in open water; TWS, trawl shallow; TWD, trawl deep.

Table III. Physical and chemical measurements taken at Station IV during larval, juvenile and adult fish sampling, St. Marys River, 1983.

		Zone 1 Upper Littoral, ≤1.5 m				Zone 2 1.5 - 8 m				Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
1/24	GND							2.0	1.60							
	GNS								0.80							
1/25	GNS						0945	0.0	1.80							
	GND								2.40							
1/31	GNS						0937	0.5	0.60							
	GND						1007	0.5	1.20							
2/1	GNS						0920	0.0	1.10							
	GND						0936	0.0	1.20							
2/7	GNS								0.40							
	GND							0.5	0.90							
2/8	GNS						0934	1.0	0.60							
	GND						1015	1.0	1.10							
2/14	GNS						1015	0.0	0.80							
	GND						1045	0.0	0.60							
2/15	GNS						0915	0.0	1.20							
	GND							0.0	0.60							
2/21	GNS						1000	0.0	1.70							
	GNS						1040									
	GND						1100	0.0	4.30							
4/18	GND						1020									
							1720									
4/20	GNS						1730	3.0	1.90		13.4					
	GND						1745	2.0	1.60		13.2					
4/21	LF						2010	2.2			12.8					
5/3	STV	0945	3.0	2.00		11.6										
	STO	1000														
	LF	2205	7.0			11.5	2148	5.0			12.2	2118	4.2	1.00	7.2	13.5

Table III. Continued

Date	Gear[1]	Zone 1 Upper Littoral, ≤1.5 m Time	Temp.	Turb.	pH	D.O.	Zone 2 1.5 - 8 m Time	Temp.	Turb.	pH	D.O.	Zone 3 Channel, 8 - 9 m Time	Temp.	Turb.	pH	D.O.
5/10	LF	2200	9.3	1.20		11.2	2145	7.3	2.30		11.6	2120	5.1	1.20		12.6
5/17	LF	2205	10.3	1.50	4.7	10.4	2150	8.9	0.90	6.2	10.6	2125	5.3	1.00	7.8	12.2
5/23	GNS						1950	7.2	1.40		11.9					
	GND						2000	6.3	1.40		12.0					
5/25	TWS						2150		1.30							
	TWD						2130		1.30							
5/26	LF	2305	8.0	1.00	7.7	11.3						2325	5.2	1.40	7.6	11.9
5/31	GNS						2015	7.0	1.40							
	GND						2025	6.8	1.00							
	LF	2222	9.8	2.30	7.7	10.3	2210	7.3	1.40	7.6	11.4	2145	6.9	1.30	8.1	12.2
6/13	STV	0857	14.2	6.40		8.8										
	STV	2005	22.0	7.50		9.4										
	STO	2020	13.0			12.2										
6/14	LF	2335	16.1	2.50		10.2						2305	10.9	2.50		12.3
6/20	TWS						2220	13.2	1.90		11.4					
	TWD						2235	12.2	1.60		10.8					
6/27	GND						2111	15.6	1.50							
	GNS						2127	16.0	1.70							
	LF	2311	18.9	2.20	8.5	10.0	2254	17.0	2.40	8.5	10.3	2220	15.0	1.80	8.1	10.6
7/6	STV	0900	15.0	2.20		9.1										
	STO	0915	19.9	2.30		9.8										
	STO	2020	17.5	2.70		10.4										
	STV	2032	20.0	4.70		9.4										
7/11	LF	2312		2.80	8.0		2255	18.0	2.40	8.1	10.5	2230	17.0	2.00	8.0	9.9
7/19	TWS						2215	19.0	2.20		9.7					
	TWD						2230	19.0	2.20		9.1					
7/20	GNS						2014	21.0	1.90		9.1					
	GND						2020	20.1	2.00		9.8					

Table III. Continued

		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
7/25	LF	2220	18.0	2.50	8.3	9.2	2203	17.5	2.50	7.5	9.4	2200	17.0	2.00	7.7	9.5
8/2	STO	0945	20.8	2.80		8.9										
	STV	1000	20.8	2.70		8.3										
	STO	2100	22.0	2.50		8.7										
	STV	2120	22.4	1.80		8.5										
8/8	GNS						2030	21.9	2.60							
	GND						2045	21.1	3.10							
	LF	2201		3.80	8.3		2145		4.00	8.2		2200	22.0	2.70	8.3	8.2
8/11	TWS						2120	20.8	2.90		8.2					
	TWD						2145	20.4	2.70		8.4					
8/23	LF		21.0			10.2		20.0		7.9	9.5	2125	19.8		7.7	9.3
9/1	STO	0854	20.1	3.00		8.4										
	STV	0912	20.4	2.50		7.6										
	STO	2005	22.3	2.40		8.3										
	STV	2020	23.0	1.80		8.3										
9/7	LF	2040	21.0	6.73	7.9	8.0	2025	20.5	3.53	8.0	8.1					
9/8	TWS						2025		15.00							
	TWD						2050		4.50							
9/12	GNS						1950	19.0	4.40							
	GND						1955	19.0	3.30							
	LF											1956	19.1	3.10	7.5	8.2
10/4	STV	1730		6.50												
	STO	1750		4.00												
	STV	0820	13.2	9.80		9.2										
	STO	0840	13.7	3.60		9.8										
10/17	TWS						1908	11.2	5.00		10.3					
	TWD						1925	11.1	4.30		10.3					

Table III. Continued

Date	Gear[1]	Zone 1 Upper Littoral, ≤1.5 m Time	Temp.	Turb.	pH	D.O.	Zone 2 1.5 - 8 m Time	Temp.	Turb.	pH	D.O.	Zone 3 Channel, 8 - 9 m Time	Temp.	Turb.	pH	D.O.
10/18	GNS						1750	11.2	9.80		9.8					
	GND						1800	11.0	4.20		9.8					
11/1	STO	1645	8.3	12.00		11.9										
	STV	1650	8.0	11.00		11.3										
11/2	STO	0855	9.0			10.4										
	STV	0830	9.0	7.50		10.2										
	TWS						1735	9.8	4.20		10.3					
	TWD						1717	9.8	3.60		10.2					
11/7	GNS						1620	8.5	2.50		11.5					
	GND						1635	8.8	2.70		10.8					

[1] Gears as follows: GNS, gill net shallow; GND, gill net deep; LF, larval fish; STV, small trap net in vegetation; STO, small trap net in open water; TWS, trawl shallow; TWD, trawl deep.

Table 112. Physical and chemical measurements taken at Station V during larval, juvenile and adult fish sampling, St. Marys River, 1983.

		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
1/26	GNS						1030	0.0	7.00							
	GND						1130	0.0	2.50							
2/2	GNS							0.0	3.90							
	GND							0.0	1.70							
2/9	GNS						1000	0.0	3.30							
	GND						1030	0.0	1.90							
2/16	GNS						1000	0.0	1.20							
	GND						1300	0.0	1.00							
2/21							1000	0.0	1.50							
	GND						1030	0.0	0.68							
2/23	GNS							0.0	1.20							
	GND							0.0	1.20							
4/15	GNS						1700	3.0	18.00	6.4	12.6					
	GND						1720	2.5	12.00	6.5	13.0					
4/23	LF	2030	7.0	78.00	6.5	11.2	2100	6.5	90.00	6.7	10.5	2130	3.0	5.00		12.5
4/26	LF	2330	12.0	81.00	6.8	10.0	2310	3.2	50.00	7.1	10.9	2230	4.5	2.60	6.8	13.3
5/3	ST	0800	7.5	65.00	6.7	11.2										
	ST	2100	10.0	69.00	6.9	11.5										
5/5	LF	2325	8.0	154.00	6.8	10.6	2300	8.0	70.00	6.9	11.0	2230	5.5	4.00	6.7	12.4
5/7	GNS						1950	6.0	20.00		12.7					
	GND						2000	5.5	3.50		12.9					
5/9	LF	2250	8.0	72.00	6.7	10.8	2232	8.0	63.00	6.8	11.2	2200	4.0	5.00	6.9	12.5
5/17	LF	2345	10.0	39.00	6.7	10.3	2325	9.5	30.00	6.8	11.1	2250	6.0	2.10	6.7	12.4
5/18	TWS						2130	12.0	48.00	6.9	10.6					
	TWD						2150	9.0	5.80	6.6	11.8					
6/3	LF	2400	18.0	24.00	6.3	8.6	2345	14.3	18.50	6.6	10.2	2310	9.0	4.00	6.8	12.0
6/4	ST	2100	13.0	15.00	7.0	11.8										

Table 12. Continued

		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
6/5	ST	0630	11.0	9.00		11.8										
6/7	GND						2030	9.5	4.50	7.0	11.9					
	GNS						2100	12.5	47.00	6.9	10.8					
6/20	LF						2400	15.0	10.00	7.1	11.6	2330	13.5	3.00	6.7	11.0
6/21	LF	0030	17.5	10.00	7.2	10.4										
	TWS						2245	13.0	8.90		12.0					
	TWD						2300	16.0	4.60		12.2					
7/7	LF											2320	15.0	5.20		10.2
7/8	LF	0030	17.0	12.00		9.4	0015	16.0	9.00		10.2					
	STV	2000	19.0	7.50	6.4											
	STO	2000	17.0	2.50	6.4	9.9										
7/9	STV	0745	17.0	9.30	6.4	8.9										
	STO	0745	16.5	9.30	6.4	10.4										
7/11	GNS						2020	20.0	8.30	6.9	9.8					
	GND						2035	18.0	5.50	6.7	10.1					
7/20	LF	2350	22.5	15.50	7.1	8.1	2330	20.0	20.00	7.1	7.9					
7/21	LF											0020	18.5	4.10	7.0	9.8
	TWS						2345	23.0	16.00		8.5					
	TWD						2330	23.0	17.00		9.4					
8/2	LF	2130	20.00			8.7	2150	19.5	23.00		7.8	2220	18.0	3.90		8.8
	ST	2100	20.0	33.50	7.6	8.7										
8/3	ST	0900	18.5	14.00	7.7	8.4										
8/4	GND						2030	18.0	3.70	7.7	9.6					
	GNS						2045	19.0	13.00	7.8	9.3					
8/15	TWS						2020	19.0	25.00		9.0					
	TWD						2100	18.0	11.00		9.5					
8/16	LF	2230	19.0	23.00	7.9	8.0	2305	19.0	18.00	7.9	11.4		17.5	4.00	7.8	12.0

Table 112. Continued

		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
8/29	GND						1930	22.5	4.90	7.7	10.0					
	GNS						1950	23.0	11.00	7.8	9.8					
9/6	LF	2400	20.0	15.00	6.4		2330	21.0	11.00	6.6		2230	22.0	6.40	6.7	
9/7	ST	0900	20.0	11.00												
	ST	1915	21.0	12.00												
9/22	TNS						2030	13.5	22.00		9.9					
	TWD						2055	14.5	4.10		9.5					
9/23	GND						1930	15.0	7.00		9.6					
	GNS						1940	13.0	12.00		10.4					
10/2	ST	1800	18.0	7.40		10.7										
10/3	ST	0800	17.0	6.90		9.2										
10/17	TWS						2000	11.0	13.00		11.0					
	TWD						2030	11.0	13.00		11.0					
10/18	GNS						1830	9.5	18.00		11.8					
	GNS						1815	11.0	10.00		11.0					
11/7	TWS						1840	6.0	8.00		12.0					
	TWD						1900	8.0	4.00		11.4					
11/8	ST	0900	7.0	12.00		12.2										
	ST	1730	7.5	22.00		12.6										
11/10	GNS						1630	6.0	18.50		12.2					
	GND						1640	7.5	2.70		12.8					

[1] Gears as follows: GNS, gill net shallow; GND, gill net deep; LF, larval fish; STV, small trap net in vegetation; STO, small trap net in open water; TWS, trawl shallow; TWD, trawl deep.

Table 13. Physical and chemical measurements taken at Station VI during larval, juvenile and adult fish sampling, St. Marys River, 1983.

		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
1/25	GNS						1100	0.0	3.8							
	GND						1130	0.0	2.5							
2/2	GNS						1100	0.0	2.2							
	GND						1130	0.0	1.0							
2/9	GNS						1100	0.0	2.2							
	GND						1130	0.0	2.4							
2/16	GNS						1130	0.0	1.5							
	GND						1200	0.0	0.8							
2/21	GNS						1100	0.0	1.3							
	GND						1130	0.0	0.85							
2/23	GNS						1100	0.0	1.3							
	GND						1130	0.0	1.0							
4/14	GNS						1800	2.5	9.5	6.5	13.2					
	GND						1830	2.5	8.0	6.5	13.3					
4/23	LF	2300	6.0			11.2	2245	6.5	77.0	6.9	11.4	2210	3.0	4.0	6.8	12.6
4/25	LF											2145	4.5	7.5	6.7	13.2
4/26	LF	0030	10.0	51.0	6.9	11.0	0015	10.0	50.0	6.5	11.4					
5/3	ST	0945	7.5	87.0	6.7	11.2										
	ST	2000	9.5	59.0	6.7	11.4										
5/5	LF	0015	7.0	95.0	6.6	11.5	2350	8.0	66.0	6.6	11.2	2200	5.0	2.0	6.7	12.0
5/7	GNS						2010	6.0	22.0		12.8					
	GND						2020	5.0	2.7		13.4					
5/9	LF	2345	8.0	57.0	6.7	10.6	2330									
5/17	LF	0030	11.0	55.0	6.9	10.0	0045	10.5	43.0	6.9	10.6	2215	6.0	2.5	6.9	12.1
5/18	TWS						2230	10.2	19.5	6.8	11.3					
	TWD						2250	9.0	11.0	7.0	11.4					
6/4	LF	0040	13.0	10.0	6.5	11.1	0100	12.0	8.0	6.4	11.5	2245	9.0	5.3	6.7	11.8

Table 113. Continued

		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
6/5	ST	0700	10.5	6.0		11.9										
6/7	GNS						2120	12.5	41.0	6.9	10.5					
	GND						2130	9.5	4.0	7.0	12.1					
6/20	LF											2300	15.0	4.0	6.8	11.0
6/21	LF						0100	15.0	6.5	7.1	11.1					
	TWS						2340	16.0	5.0		11.6					
6/22	TWD						2400	15.0	3.2		11.8					
7/7	LF											2250	15.0	4.8		10.2
7/8	LF	0130	17.5	11.0		9.4	0115	17.5	17.0		9.8					
	STV	2030	20.0	11.0	6.4	10.0										
	STO	2030	19.0	11.0	6.4	10.0										
7/9	STV	0815	18.0	12.5	6.4	9.5										
	STO	0815	18.0	12.5	6.4	9.0										
7/11	GND						2050	17.5	3.8	6.9	9.8					
	GNS						2100	20.0	12.0	6.6	9.6					
7/21	LF	0100	21.0	15.0	7.4	9.3	0050	20.5	14.0	7.2	10.0	2245	20.5	6.4	7.0	9.5
7/22	TWS						0020	22.0	21.0		9.6					
	TWD						0040	21.0	8.0		10.6					
8/2	STO	2015	21.0	25.0												
	LF	2330	20.0	20.5	6.7	8.0	2315	20.0	21.0		7.8	2250	18.5	3.7		8.7
8/3	STV	0800	19.0	25.0	7.6	7.2										
	STO	0800	19.0			8.3										
8/4	GND						2100	18.0	6.7	7.7	9.3					
	GNS						2110	19.0	32.0	7.8	8.6					
8/15	TWD						2130	17.5	3.4		8.8					
	TWS						2200	18.5	6.9		8.3					
8/16	LF	2350	18.0	11.0	8.0		2330	18.5	10.0	8.0		2140	18.0	4.1	7.9	11.1

Table 13. Continued

		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
8/29	GND						2000	26.0	5.9	7.6	9.5					
	GNS						2015	25.0	18.0	8.1	9.5					
9/6	LF											2200	22.0	5.9	6.8	
9/7	LF	0045	20.0	18.0	6.9		0030	21.0	21.0	6.7						
	ST	0930	20.0	23.0												
	ST	2000	21.0	26.0												
9/22	TWS						2130	13.0	22.0		10.2					
	TWD						2155	13.5	14.0		10.0					
9/23	GND						1950	14.0	7.0		9.8					
	GNS						2000	13.0	15.0		10.8					
10/2	ST	1730	18.0	8.8		10.6										
10/3	ST	0845		12.5		10.1										
10/17	TWS						2100	10.0	18.5		11.1					
	TWD						2120	11.0	12.0		11.1					
10/18	GNS						1900	10.0	16.0		11.7					
	GND						1845	11.0	11.0		11.0					
11/7	TWS						1950	5.5	27.0		12.0					
	TWD						2015	7.5	3.5		11.1					
11/8	ST	0930	7.0	8.0		12.2										
	ST	1800	7.0	31.0		12.6										
11/10	GNS						1705	5.0	21.5		13.0					
	GND						1700	7.5	3.0		12.0					

[1] Gears as follows: GNS, gill net shallow; GND, gill net deep; LF, larval fish; STV, small trap net in vegetation; STO, small trap net in open water; TWS, trawl shallow; TWD, trawl deep.

Table 114 Physical and chemical measurements taken at Station VII during larval, juvenile and adult fish sampling, St. Marys River, 1983.

		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
1/20	GNS						1000	0.0	3.3							
	GND						1100	0.0	2.4							
1/31	GNS						0930	0.0	2.7							
	GND						1030	0.0	1.8							
2/7	GNS						1000	0.0	2.8							
	GND						1030	0.0	1.1							
2/14	GNS						1015	0.0	1.4							
	GND						1045	0.0	1.2							
2/21	GNS						1330	0.0	1.7							
	GND						1400	0.0	1.0							
2/23	GNS						1100	0.0	1.4							
	GND						1130	0.0	1.3							
2/28	GNS						1130	0.0	1.5							
	GND						1140	0.0	1.1							
4/15	GNS						1920	1.5	10.0	6.3	13.2					
	GND						1900	2.0	9.0	6.3	13.0					
4/22	LF	2200	5.0	44.0	6.8	12.4	2145	5.0	36.0	6.6	13.2	2045	3.0	4.0	6.7	13.8
4/24	GN						2000	4.5	6.0	6.8	13.0					
4/26	LF											2115	5.0	3.5	6.7	13.3
4/27	LF	0130	10.0	25.0	6.6	11.8	0100	9.5	25.0	6.6	11.8					
5/4	ST	2015	8.0	16.0	6.7	11.9										
5/5	ST	0800	5.0	18.0	6.9	11.3										
	LF											2130	5.0	2.5	6.8	12.4
5/6	LF	0050	8.0	25.0	6.6	10.6	0045	7.5	30.0	6.6	11.0					
	GN						1940	5.0	3.8	6.9	12.5					
5/7	GND						2050	5.5	3.8		12.9					
	GNS						2100	5.5	15.0		12.6					

Table 114 Continued

		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
5/8	LF	2250	7.0	14.0	6.9	11.9	2315	6.0	17.0	6.8	12.5	2200	4.0	2.2	7.1	12.8
5/17	LF	0015	10.5	36.0	7.0	9.9	0130	10.5	27.0	7.1	10.6	2145	6.0	4.0	6.8	12.1
5/18	TWS						2330	10.0	27.0	7.0	10.8					
	TWD						2400	9.5	21.0	7.0	10.8					
6/4	LF	0125	15.0	10.0	6.6	9.8	0145	15.0	11.5	6.5	10.4	2210	8.5	4.0	6.5	12.0
6/5	ST	2130	14.0	9.0	6.7	9.2										
6/6	ST	0730	10.5	7.0	7.1											
6/7	GNS						2200	11.5	13.5	6.9	10.4					
	GND						2150	10.5	13.0	7.0	11.4					
6/21	LF	0145	20.0	5.0	7.2	7.8	0200	20.0	5.5	7.2	9.5	2215	16.5	4.0	6.6	10.6
6/22	TWS						0030	22.0	7.8		8.2					
	TWD						0045	19.0	4.5		9.2					
7/7	LF	0210	18.7	17.0		7.4	0230	18.0	16.0		8.4	2215	17.0	4.4		7.5
7/9	STV	2100	21.5	6.3	6.8	8.7										
	STO	2100	20.0	6.3	6.8	9.4										
7/10	STV	0800	18.0	7.6	6.8	8.6										
	STO	0800	16.5	7.6	6.8	9.5										
7/11	GND						2120	18.0	4.5	6.7	9.8					
	GNS						2130	22.5	7.0	6.7	8.7					
7/21	LF	0130	22.0	5.1	7.3		0200	21.5	6.0	7.3		2200	20.5	4.4	7.1	9.3
7/22	TWS						0115	20.0	7.0							
	TWD						0145	23.0	7.0		10.3					
8/1	STV	2015	20.5	6.8	7.2	7.6										
	STO		19.0			8.7										
8/2	STV	0745	19.0	5.9	7.3	7.5										
	STO		18.0			9.6										
8/4	LF	0110	20.5	7.2	6.5	7.1	0130	20.0	7.2		8.6	0045	19.0	5.6		8.4
	GND						2120	18.0	5.7	7.7	9.0					

Table 114. Continued

		Zone 1 Upper Littoral, ≤1.5 m					Zone 2 1.5 - 8 m					Zone 3 Channel, 8 - 9 m				
Date	Gear[1]	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.	Time	Temp.	Turb.	pH	D.O.
8/4	GNS						2130	19.0	8.0	7.7	8.5					
8/15	TWS						2230	19.0	6.4		7.8					
	TWD						2210	18.0	5.9		8.5					
8/16	LF	0015	21.0	6.3	7.3		0030	20.0	10.0	7.9		2110	18.0	3.9	7.8	12.1
8/29	GND						2030	23.0	7.5	8.0	8.3					
	GNS						2045	23.0	9.8	8.0						
9/7	LF	0115	21.0	9.1	6.9		0130	21.0				2115	22.0	9.4	6.9	
9/8	ST	0945	20.0	6.3												
	ST	2000	22.0	9.5												
9/22	TWS						2230	13.0	6.0		10.6					
	TWD						2250	14.0	13.0		10.2					
9/23	GND						2015	15.0	8.0		9.4					
	GNS						2025	14.0	10.5		9.8					
10/3	ST	2000	16.5	12.5												
10/4	ST	0900	16.0	9.7		8.9										
10/17	TWS						2150	10.0	14.0		11.0					
	TWD						2215	11.0	14.0		11.0					
10/18	GNS						1930	10.5	12.0		11.1					
	GND						1915	10.5	20.0		11.4					
11/7	TWS						2045	6.0	17.0		11.4					
	TWD						2115	7.0	14.0		11.4					
11/9	ST	1015	6.5	16.0		11.8										
	ST	1700	7.0	32.0		11.2										
11/10	GNS						1735	6.0	5.1		12.2					
	GND						1730	7.0	4.3		12.2					

[1] Gears as follows: GNS, gill net shallow; GND, gill net deep; LF, larval fish; STV, small trap net in vegetation; STO, small trap net in open water; TWS, trawl shallow; TWD, trawl deep.

Appendix J. Collection records for each benthic macroinvertebrate sample including date, gear type, station/site, and density (no. $\cdot m^{-2}$) for each taxa. Descriptive statistics (mean, standard deviation, standard error) for replicated samples from each date and site are also given.

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
05/12/82	7/E	1 CAENIS	0	21	0	7.0	12.1	7.0	3
		1 HEXAGENIA	63	168	147	126.0	55.6	32.1	3
		4 CERATOPOGO	0	21	21	14.0	12.1	7.0	3
		4 CHIR. PUPA	147	42	21	70.0	67.5	39.0	3
		4 CRYPTOCHIR	21	0	0	7.0	12.1	7.0	3
		4 HETEROTRIS	42	126	1176	448.0	631.9	364.8	3
		4 LARSIA	42	63	651	252.0	345.7	199.6	3
		4 POLYPEDILU	63	126	21	70.0	52.8	30.5	3
		4 PROCLADIUS	0	0	252	84.0	145.5	84.0	3
		4 PSECTROCLA	210	315	105	210.0	105.0	60.6	3
		4 STICTOCHIR	0	42	63	35.0	32.1	18.5	3
		16 AMNICOLA	0	0	21	7.0	12.1	7.0	3
		17 ANODONTA G	21	0	0	7.0	12.1	7.0	3
		17 PISIDIUM	0	0	21	7.0	12.1	7.0	3
		17 SPHAERIUM	0	63	21	28.0	32.1	18.5	3
		19 OLIGOCHAET	315	42	399	252.0	186.7	107.8	3
		Grand Sum = 4872	Mean = 1624.0		Std.Dev. = 1122.7		Std.Err = 648.2		
05/14/82	7/B	1 EPHEMERA	63	21	0	28.0	32.1	18.5	3
		1 HEXAGENIA	21	84	42	49.0	32.1	18.5	3
		2 NOLANNA	42	0	0	14.0	24.2	14.0	3
		4 CARDIOCLAD	21	0	0	7.0	12.1	7.0	3
		4 CERATOPOGO	21	0	21	7.0	19.2	11.1	3
		4 CHIR. PUPA	0	0	21	7.0	12.1	7.0	3
		4 CRYPTOCHIR	0	21	0	7.0	12.1	7.0	3
		4 DICROTENDI	0	0	630	210.0	363.7	210.0	3
		4 PARACLADOP	420	0	0	140.0	242.5	140.0	3
		4 PARATANYTA	777	462	483	574.0	176.1	101.7	3
		4 PHAENOSPEC	1680	0	0	560.0	969.9	560.0	3
		4 POLYPEDILU	630	0	0	210.0	363.7	210.0	3
		4 PROCLADIUS	630	0	210	280.0	320.8	185.2	3
		4 PSECTROCLA	0	0	441	147.0	254.6	147.0	3
		4 STICTOCHIR	714	63	0	259.0	395.3	228.2	3
		4 TANYTARSUS	105	0	0	35.0	60.6	35.0	3
		15 HYDRACARIN	42	63	42	35.0	43.7	25.2	3
		16 AMNICOLA	42	63	0	35.0	32.1	18.5	3
		16 PHYSA	0	21	0	7.0	12.1	7.0	3
		16 VALVATA	168	0	0	56.0	97.0	56.0	3
		17 PISIDIUM	189	21	126	112.0	84.9	49.0	3
		17 SPHAERIUM	21	0	0	7.0	12.1	7.0	3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
05/14/82	7/B	19 OLIGOCHAET	6132	630	2415	3059.0	2807.0	1620.6	3
		16 GASTROPODA	0	0	105	35.0	60.6	35.0	3
		25 ARANEAE	21	0	0	7.0	12.1	7.0	3
		Grand Sum = 17724	Mean = 5908.0		Std.Dev. = 5280.4		Std.Err = 3048.7		
	7/C	1 EPHEMERA	0	0	21	7.0	12.1	7.0	3
		1 HEXAGENIA	231	945	1071	749.0	453.0	261.5	3
		2 OECETIS	0	21	21	14.0	12.1	7.0	3
		4 CERATOPOGO	21	273	21	105.0	145.5	84.0	3
		4 CHIRONOMUS	0	42	42	28.0	24.2	14.0	3
		4 CRYPTOCHIR	0	630	903	511.0	463.1	267.4	3
		4 CRYPTOCLAD	0	420	420	280.0	242.5	140.0	3
		4 EPOICOCLAD	0	0	21	7.0	12.1	7.0	3
		4 HETEROTRIS	21	0	0	7.0	12.1	7.0	3
		4 LARSIA	210	252	924	462.0	400.7	231.3	3
		4 MONODIAMES	0	210	0	70.0	121.2	70.0	3
		4 PROCLADIUS	420	1281	252	651.0	552.0	318.7	3
		4 PSECTROCLA	21	0	0	7.0	12.1	7.0	3
		7 COLLEMBOLA	210	0	0	70.0	121.2	70.0	3
		9 SIALIS	21	0	0	7.0	12.1	7.0	3
		13 GAMMARUS	0	0	21	7.0	12.1	7.0	3
		13 HYALELLA A	21	21	21	21.0	0.0	0.0	3
		15 HYDRACARIN	21	21	21	21.0	0.0	0.0	3
		16 AMNICOLA	0	84	0	28.0	48.5	28.0	3
		17 PISIDIUM	21	84	63	56.0	32.1	18.5	3
		17 SPHAERIUM	0	42	42	28.0	24.2	14.0	3
		19 OLIGOCHAET	1365	1113	1533	1337.0	211.4	122.0	3
		24 HIRUDINEA	0	0	21	7.0	12.1	7.0	3
		Grand Sum = 13440	Mean = 4480.0		Std.Dev. = 1642.9		Std.Err = 948.5		
	7/D	2 OECETIS	0	0	21	7.0	12.1	7.0	3
		4 DICROTENDI	0	0	21	7.0	12.1	7.0	3
		4 POLYPEDILU	693	0	0	231.0	400.1	231.0	3
		4 PSECTROCLA	21	210	0	77.0	115.7	66.8	3
		17 SPHAERIUM	21	0	42	21.0	21.0	12.1	3
		19 OLIGOCHAET	441	420	210	357.0	127.7	73.7	3
		Grand Sum = 2100	Mean = 700.0		Std.Dev. = 445.1		Std.Err = 257.0		
	7/F	1 CAENIS	0	0	21	7.0	12.1	7.0	3
		1 HEXAGENIA	1638	630	2079	1449.0	742.3	428.6	3
		2 OECETIS	42	0	0	14.0	24.2	14.0	3
		4 CERATOPOGO	63	294	21	126.0	147.0	84.9	3
		4 CHIR. PUPA	42	42	0	28.0	24.2	14.0	3
		4 CHIRONOMUS	0	21	0	7.0	12.1	7.0	3
		4 CRYPTOCHIR	252	210	462	308.0	135.0	77.9	3
		4 CRYPTOCLAD	5061	630	0	1897.0	2758.2	1592.4	3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (#./ SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
05/14/82	7/F	4 EPOICOCLAD	63	0	21	28.0	32.1	18.5	3
		4 HETEROTRIS	1155	21	105	427.0	631.9	364.8	3
		4 LARSIA	1134	42	756	644.0	554.5	320.2	3
		4 POLYPEDILU	84	63	0	49.0	43.7	25.2	3
		4 POTTHASTIA	42	0	63	35.0	32.1	18.5	3
		4 PROCLADIUS	1743	462	630	945.0	696.2	401.9	3
		4 PSECTROCLA	231	126	1344	567.0	674.9	389.7	3
		15 HYDRACARIN	63	0	21	28.0	32.1	18.5	3
		16 AMNICOLA	0	0	42	14.0	24.2	14.0	3
		16 PLEUROCERA	0	21	0	7.0	12.1	7.0	3
		17 LAMPSILIS	0	21	0	7.0	12.1	7.0	3
		17 SPHAERIUM	21	21	21	21.0	0.0	0.0	3
		19 OLIGOCHAET	2079	819	861	1253.0	715.6	413.2	3
		20 TURBELLARI	63	0	0	21.0	36.4	21.0	3

Grand Sum = 23646 Mean = 7882.0 Std.Dev. = 5323.6 Std.Err = 3073.6

GEAR : PONAR

DATE	STA/SITE		TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
05/15/82	S/B	1	CAENIS	0	21	0	7.0	12.1	7.0	3
		1	EPHEMERA	63	21	21	35.0	24.2	14.0	3
		1	EPHEMERELL	21	0	21	14.0	12.1	7.0	3
		1	HEXAGENIA	126	126	84	112.0	24.2	14.0	3
		2	CERACLEA	21	42	0	21.0	21.0	12.1	3
		2	HELICOPSYC	0	21	0	7.0	12.1	7.0	3
		2	LEPIDOSTOM	0	0	42	14.0	24.2	14.0	3
		2	POLYCENTRO	42	42	63	49.0	12.1	7.0	3
		4	ABLABESMY	0	0	21	7.0	12.1	7.0	3
		4	CERATOPOGO	42	231	63	112.0	103.6	59.8	3
		4	CHIR PUPA	0	21	0	7.0	12.1	7.0	3
		4	CRICOTOPUS	231	420	693	448.0	232.3	134.1	3
		4	CRYPTOCHIR	0	0	21	7.0	12.1	7.0	3
		4	DICROTENDI	105	42	1491	546.0	819.0	472.9	3
		4	LARSIA	0	210	630	280.0	320.8	185.2	3
		4	MICROTENDI	0	168	231	133.0	119.4	68.9	3
		4	MONODIAMES	0	0	42	14.0	24.2	14.0	3
		4	PARATANYTA	0	1470	0	490.0	848.7	490.0	3
		4	POLYPEDIL	1050	756	546	784.0	253.2	146.2	3
		4	PROCLADIUS	0	861	1092	651.0	575.5	332.3	3
		4	PSECTROCLA	0	210	0	70.0	121.2	70.0	3
		4	STICTOCHIR	105	0	63	56.0	52.8	30.5	3
		4	TANYTARSUS	84	1596	84	588.0	873.0	504.0	3
		8	SIGARA	0	21	21	14.0	12.1	7.0	3
		12	ASELLUS	42	0	0	14.0	24.2	14.0	3
		12	CIRCUS	168	21	0	63.0	91.5	52.8	3
		13	GAMMARUS	0	0	21	7.0	12.1	7.0	3
		13	HYALELLA A	1239	1470	1323	1344.0	116.9	67.5	3
		15	HYDRACARIN	63	42	252	119.0	115.7	66.8	3
		15	AMNICOLA	0	0	63	21.0	36.4	21.0	3
		15	GYRAULUS P	168	21	0	63.0	91.5	52.8	3
		15	HELISOMA	0	0	84	28.0	48.5	28.0	3
		15	PHYSA INTE	42	0	42	28.0	24.2	14.0	3
		16	VALVATA TR	21	21	21	21.0	0.0	0.0	3
		17	ELLIPTIO C	21	0	21	14.0	12.1	7.0	3
		17	PISIDIUM	42	0	21	21.0	21.0	12.1	3
			SPHAERIU	0	42	0	14.0	24.2	14.0	3
		17	[illegible]	714	672	1743	1043.0	606.6	350.2	3
			Sum = [illegible]	Mean =	7200.0	Std.Dev. =	2475.6	Std.Err =	1429.9	
			[illegible]	0	21	0	7.0	12.1	7.0	3
			[illegible]	[illegible]	567	588	630.0	91.5	52.8	3
			[illegible]	42	0	42	28.0	24.2	14.0	3
			[illegible]	21	0	252	98.0	135.0	77.9	3

GEAR : PONAR

DATE	STA/SITE		TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
05/15/82	5/C	4	CERATOPOGO	0	0	210	70.0	121.2	70.0	3
		4	CHIRONOMUS	0	21	462	161.0	260.9	150.6	3
		4	CRICOTOPUS	462	231	336	343.0	115.7	66.8	3
		4	CRYPTOCHIR	3360	5880	2520	3920.0	1748.6	1009.6	3
		4	ENFELDIA	0	0	630	210.0	363.7	210.0	3
		4	HETEROTRIS	63	0	672	245.0	371.1	214.3	3
		4	LARSIA	0	0	441	147.0	254.6	147.0	3
		4	MONODIAMES	210	0	21	77.0	115.7	66.8	3
		4	PARATANYTA	630	0	0	210.0	363.7	210.0	3
		4	POLYPEDILU	0	231	0	77.0	133.4	77.0	3
		4	PROCLADIUS	2730	1596	1323	1883.0	746.1	430.8	3
		4	STICTOCHIR	21	0	0	7.0	12.1	7.0	3
		4	TANYTARSUS	0	63	63	42.0	36.4	21.0	3
		8	CORIXIDAE	0	0	21	7.0	12.1	7.0	3
		8	NOTONECTID	21	0	0	7.0	12.1	7.0	3
		13	GAMMARUS	0	21	0	7.0	12.1	7.0	3
		13	PONTOPOREI	0	420	0	140.0	242.5	140.0	3
		15	HYDRACARIN	147	42	63	84.0	55.6	32.1	3
		16	AMNICOLA L	252	84	105	147.0	91.5	52.8	3
		16	VALVATA TR	42	21	84	49.0	32.1	18.5	3
		17	SPHAERIUM	21	0	0	7.0	12.1	7.0	3
		19	OLIGOCHAET	1344	2583	231	1386.0	1176.6	679.3	3
		20	TURBELLARI	0	210	0	70.0	121.2	70.0	3
		24	HIRUDINEA	0	0	21	7.0	12.1	7.0	3
		Grand Sum =	30198	Mean =	10066.0	Std.Dev. =	1953.6	Std.Err =	1127.9	
	5/D	1	HEPTAGENII	0	210	0	70.0	121.2	70.0	3
		1	STENACRON	0	0	21	7.0	12.1	7.0	3
		2	OECETIS	21	0	0	7.0	12.1	7.0	3
		4	CRICOTOPUS	0	0	42	14.0	24.2	14.0	3
		4	CRYPTOCHIR	0	840	0	280.0	485.0	280.0	3
		4	HETEROTRIS	0	0	21	7.0	12.1	7.0	3
		4	LARSIA	0	0	210	70.0	121.2	70.0	3
		4	MICROSPECT	0	210	0	70.0	121.2	70.0	3
		13	HYALELLA A	0	0	21	7.0	12.1	7.0	3
		15	HYDRACARIN	0	21	0	7.0	12.1	7.0	3
		19	OLIGOCHAET	0	651	0	217.0	375.9	217.0	3
		20	PLANARIA	21	0	0	7.0	12.1	7.0	3
		Grand Sum =	2289	Mean =	763.0	Std.Dev. =	1021.5	Std.Err =	589.8	
	5/E	2	MOLANNA	0	21	0	7.0	12.1	7.0	3
		4	CARDIOCLAD	42	0	0	14.0	24.2	14.0	3
		4	CRICOTOPUS	42	210	0	84.0	111.1	64.2	3
		4	CRYPTOCHIR	231	21	0	84.0	127.7	73.7	3
		4	LARSIA	21	0	0	7.0	12.1	7.0	3

GEAR : PONAR

DATE	STA/SITE		TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
05/15/82	S/E	4	MICROSPECT	0	42	0	14.0	24.2	14.0	3
		4	MONODIAMES	63	0	231	98.0	119.4	68.9	3
		4	POLYPEDILU	0	0	630	210.0	363.7	210.0	3
		4	PSEUDOCHIR	0	0	21	7.0	12.1	7.0	3
		4	STICTOCHIR	336	210	63	203.0	136.6	78.9	3
		7	COLLEMBOLA	0	210	0	70.0	121.2	70.0	3
		15	HYDRACARIN	21	84	0	35.0	43.7	25.2	3
		16	AMNICOLA L	21	147	168	112.0	79.5	45.9	3
		16	GYRAULUS	231	0	0	77.0	133.4	77.0	3
		16	HELISOMA	0	0	126	42.0	72.7	42.0	3
		16	VALVATA TR	21	84	126	77.0	52.8	30.5	3
		17	PISIDIUM	126	84	231	147.0	75.7	43.7	3
		17	SPHAERIUM	0	0	42	14.0	24.2	14.0	3
		19	OLIGOCHAET	1764	210	1113	1029.0	780.4	450.6	3
		27	POLYCHAETA	0	21	0	7.0	12.1	7.0	3
		28	TARDIGRADA	0	0	210	70.0	121.2	70.0	3
		Grand Sum =		7224	Mean =	2408.0	Std.Dev. =	921.7	Std.Err =	532.1
	S/F	1	CAENIS	210	0	0	70.0	121.2	70.0	3
		1	EPHEMERA	0	0	42	14.0	24.2	14.0	3
		2	MOLANNA	0	21	0	7.0	12.1	7.0	3
		2	OECETIS	0	42	0	14.0	24.2	14.0	3
		2	TRIANODES	0	0	21	7.0	12.1	7.0	3
		4	CERATOPOGO	0	0	21	7.0	12.1	7.0	3
		4	CHIR. PUPA	21	21	0	14.0	12.1	7.0	3
		4	CLADOTANYT	1323	462	0	595.0	671.5	387.7	3
		4	CRICOTOPUS	0	0	21	7.0	12.1	7.0	3
		4	CRYPTOCHIR	21	210	42	91.0	103.6	59.8	3
		4	LARSIA	210	0	0	70.0	121.2	70.0	3
		4	MONODIAMES	21	0	0	7.0	12.1	7.0	3
		4	ORTHOCLADI	210	0	0	70.0	121.2	70.0	3
		4	PARATANYTA	0	420	0	140.0	242.5	140.0	3
		4	POLYPEDILU	357	525	756	546.0	200.3	115.7	3
		4	PROCLADIUS	0	21	0	7.0	12.1	7.0	3
		4	PSECTROCLA	0	0	420	140.0	242.5	140.0	3
		4	PSEUDOCHIR	126	21	189	112.0	84.9	49.0	3
		12	LIRCEUS	0	21	0	7.0	12.1	7.0	3
		13	HYALELLA A	1008	756	315	693.0	350.8	202.5	3
		15	HYDRACARIN	126	63	0	63.0	63.0	36.4	3
		16	AMNICOLA L	567	168	210	315.0	219.2	126.6	3
		16	HELISOMA	0	63	0	21.0	36.4	21.0	3
		16	PLEUROCERA	84	0	0	28.0	48.5	28.0	3
		16	PROBYTHINE	0	21	0	7.0	12.1	7.0	3
		17	PISIDIUM	0	42	63	35.0	32.1	18.5	3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
05/15/82	5/F	17 SPHAERIUM	0	0	21	7.0	12.1	7.0	3
		19 OLIGOCHAET	3423	1365	9975	4921.0	4496.2	2595.9	3
		28 TARDIGRADA	0	0	7140	2380.0	4122.3	2380.0	3
		29 UNKNOWN	0	0	210	70.0	121.2	70.0	3

Grand Sum = 31395 Mean = 10465.0 Std.Dev. = 7968.4 Std.Err = 4600.6

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
05/16/82	6/B	1 CAENIS	0	840	0	280.0	485.0	280.0	3
		1 EPHEMERA	0	126	315	147.0	158.5	91.5	3
		1 EPHEMERELL	0	21	0	7.0	12.1	7.0	3
		1 HEXAGENIA	0	63	21	28.0	32.1	18.5	3
		2 SETODES	0	210	0	70.0	121.2	70.0	3
		4 CERATOPOGO	0	63	231	98.0	119.4	68.9	3
		4 CLADOTANYT	210	0	0	70.0	121.2	70.0	3
		4 CRICOTOPUS	420	420	0	280.0	242.5	140.0	3
		4 CRYPTOCHIR	1092	21	0	371.0	624.5	360.6	3
		4 DICROTENDI	42	0	0	14.0	24.2	14.0	3
		4 EPOICOCLAD	21	0	0	7.0	12.1	7.0	3
		4 ORTHOCLADI	0	210	0	70.0	121.2	70.0	3
		4 POLYPEDILU	2163	1050	1113	1442.0	625.2	361.0	3
		4 PROCLAD #2	462	0	0	154.0	266.7	154.0	3
		4 PROCLADIUS	0	420	0	140.0	242.5	140.0	3
		4 STICTOCHIR	0	0	42	14.0	24.2	14.0	3
		7 COLLEMBOLA	0	210	0	70.0	121.2	70.0	3
		12 ASELLUS	0	0	42	14.0	24.2	14.0	3
		12 LIRCEUS	0	42	42	28.0	24.2	14.0	3
		13 GAMMARUS	0	21	0	7.0	12.1	7.0	3
		13 HYALELLA A	0	1113	693	602.0	562.1	324.5	3
		15 HYDRACARIN	0	21	42	21.0	21.0	12.1	3
		16 GYRAULUS	0	126	0	42.0	72.7	42.0	3
		16 HELISOMA	0	0	42	14.0	24.2	14.0	3
		16 PHYSA	0	42	0	14.0	24.2	14.0	3
		17 ANODONTA G	0	0	21	7.0	12.1	7.0	3
		17 PISIDIUM	0	0	21	7.0	12.1	7.0	3
		17 SPHAERIUM	0	0	63	21.0	36.4	21.0	3
		19 OLIGOCHAET	4452	6258	2226	4312.0	2019.6	1166.0	3
		25 ARANEAE	0	0	21	7.0	12.1	7.0	3
		Grand Sum = 25074	Mean = 8358.0			Std.Dev. = 3200.9		Std.Err = 1848.0	
	6/C	1 HEXAGENIA	546	0	252	266.0	273.3	157.8	3
		3 COLEOPTERA	210	0	0	70.0	121.2	70.0	3
		4 CARDIOCLAD	210	0	0	70.0	121.2	70.0	3
		4 CHIR. PUPA	21	0	0	7.0	12.1	7.0	3
		4 CHIRONOMUS	63	21	0	28.0	32.1	18.5	3
		4 CRYPTOCHIR	210	861	0	357.0	448.9	259.2	3
		4 DICROTENDI	1260	0	0	420.0	727.5	420.0	3
		4 EPOICOCLAD	0	21	42	21.0	21.0	12.1	3
		4 HETEROTRIS	0	0	42	14.0	24.2	14.0	3
		4 LARSIA	21	63	63	49.0	24.2	14.0	3
		4 PARACLADOP	0	1050	840	630.0	555.6	320.8	3
		4 POLYPEDILU	0	0	84	28.0	48.5	28.0	3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
05/16/82	6/C	4 POTTHASTIA	21	0	0	7.0	12.1	7.0	3
		4 PROCLADIUS	651	420	0	357.0	330.0	190.5	3
		15 HYDRACARIN	0	0	42	14.0	24.2	14.0	3
		16 AMNICOLA	0	0	21	7.0	12.1	7.0	3
		16 VALVATA	63	0	0	21.0	36.4	21.0	3
		17 PISIDIUM	0	0	84	28.0	48.5	28.0	3
		17 SPHAERIUM	0	0	63	21.0	36.4	21.0	3
		19 OLIGOCHAET	525	2646	735	1302.0	1168.7	674.7	3
		Grand Sum = 11151	Mean = 3717.0		Std.Dev. = 1408.9		Std.Err = 813.4		
	6/D	1 HEXAGENIA	0	0	21	7.0	12.1	7.0	3
		4 CHIRONOMUS	0	42	0	14.0	24.2	14.0	3
		4 CRICOTOPUS	0	231	210	147.0	127.7	73.7	3
		4 HETEROTRIS	0	0	210	70.0	121.2	70.0	3
		4 PARACLADOP	0	210	0	70.0	121.2	70.0	3
		16 AMNICOLA	0	21	0	7.0	12.1	7.0	3
		19 OLIGOCHAET	21	0	420	147.0	236.7	136.6	3
		21 NEMATODA	0	21	0	7.0	12.1	7.0	3
		Grand Sum = 1407	Mean = 469.0		Std.Dev. = 422.8		Std.Err = 244.1		
	6/E	1 HEXAGENIA	231	105	147	161.0	64.2	37.0	3
		2 OECETIS	21	0	63	28.0	32.1	18.5	3
		4 CERATOPOGO	0	0	21	7.0	12.1	7.0	3
		4 CHIRONOMUS	42	105	0	49.0	52.8	30.5	3
		4 CRICOTOPUS	0	42	0	14.0	24.2	14.0	3
		4 CRYPTOCHIR	210	0	0	70.0	121.2	70.0	3
		4 EPOICOCLAD	0	0	21	7.0	12.1	7.0	3
		4 HETEROTRIS	21	0	0	7.0	12.1	7.0	3
		4 LARSIA	483	147	84	238.0	214.5	123.8	3
		4 PARACLADOP	1260	210	210	560.0	606.2	350.0	3
		4 POLYPEDILU	0	147	84	77.0	73.7	42.6	3
		4 PROCLADIUS	651	42	462	385.0	311.7	180.0	3
		4 PSECTROCLA	0	0	21	7.0	12.1	7.0	3
		13 UNIDENTIFI	420	0	0	140.0	242.5	140.0	3
		15 HYDRACARIN	0	42	21	21.0	21.0	12.1	3
		16 AMNICOLA	0	0	21	7.0	12.1	7.0	3
		16 GYRAULUS	0	21	0	7.0	12.1	7.0	3
		17 PISIDIUM	42	21	63	42.0	21.0	12.1	3
		17 SPHAERIUM	42	21	21	28.0	12.1	7.0	3
		19 OLIGOCHAET	1785	168	1617	1190.0	889.1	513.3	3
		21 NEMATODA	1491	0	0	497.0	860.8	497.0	3
		23 OSTRACODA	1050	0	0	350.0	606.2	350.0	3
		Grand Sum = 11676	Mean = 3892.0		Std.Dev. = 3457.4		Std.Err = 1996.2		
	6/F	2 SETODES	21	0	0	7.0	12.1	7.0	3
		3 COLEOPTERA	0	0	210	70.0	121.2	70.0	3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
05/16/82	6/F	4 CHIR. PUPA	0	0	42	14.0	24.2	14.0	3
		4 CLADOTANYT	42	105	0	49.0	52.8	30.5	3
		4 CRICOTOPUS	0	147	441	196.0	224.5	129.6	3
		4 CRYPTOCHIR	84	21	693	266.0	371.1	214.3	3
		4 HETEROTRIS	105	0	84	63.0	55.6	32.1	3
		4 LARSIA	0	42	0	14.0	24.2	14.0	3
		4 MONODIAMES	189	21	84	98.0	84.9	49.0	3
		4 POLYPEDILU	798	126	105	343.0	394.2	227.6	3
		4 POTTHASTIA	42	0	21	21.0	21.0	12.1	3
		4 PROCLADIUS	630	0	420	350.0	320.8	185.2	3
		4 PSECTROCLA	630	0	0	210.0	363.7	210.0	3
		4 PSEUDOCHIR	0	42	0	14.0	24.2	14.0	3
		13 HYALELLA A	0	0	21	7.0	12.1	7.0	3
		15 HYDRACARIN	21	84	63	56.0	32.1	18.5	3
		16 AMNICOLA	63	63	105	77.0	24.2	14.0	3
		16 GYRAULUS	168	0	105	91.0	84.9	49.0	3
		16 VALVATA	0	63	21	28.0	32.1	18.5	3
		17 PISIDIUM	231	210	231	224.0	12.1	7.0	3
		17 SPHAERIUM	0	21	0	7.0	12.1	7.0	3
		19 OLIGOCHAET	756	252	1239	749.0	493.5	284.9	3

Grand Sum = 8862 Mean = 2954.0 Std.Dev. = 1522.5 Std.Err = 879.0

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
05/24/82	2/B	1 CAENIS	231	0	63	98.0	119.4	68.9	3
		1 EPHEMERA	315	546	441	434.0	115.7	66.8	3
		1 HEXAGENIA	273	189	168	210.0	55.6	32.1	3
		2 FABRIA	0	21	0	7.0	12.1	7.0	3
		2 MOLANNA	63	21	84	56.0	32.1	18.5	3
		2 MYSTACIDES	42	0	0	14.0	24.2	14.0	3
		2 POLYCENTRO	21	0	21	14.0	12.1	7.0	3
		2 TRIANODES	0	21	42	21.0	21.0	12.1	3
		4 ABLABESMYI	210	420	0	210.0	210.0	121.2	3
		4 CERATOPOGO	189	189	63	147.0	72.7	42.0	3
		4 CHIR. PUPA	42	0	84	42.0	42.0	24.2	3
		4 CLADOTANYT	0	0	147	49.0	84.9	49.0	3
		4 CRICOTOPUS	840	693	1743	1092.0	568.6	328.3	3
		4 CRYPTOCHIR	273	231	861	455.0	352.2	203.4	3
		4 DICROTENDI	105	0	0	35.0	60.6	35.0	3
		4 ENDOCHIRON	42	0	1176	406.0	667.2	385.2	3
		4 EPOICOCLAD	0	21	0	7.0	12.1	7.0	3
		4 LARSIA	2352	1050	1197	1533.0	713.1	411.7	3
		4 MONODIAMES	63	21	84	56.0	32.1	18.5	3
		4 PARACHIRON	0	0	462	154.0	266.7	154.0	3
		4 PARALAUTER	0	441	63	168.0	238.5	137.7	3
		4 PARATANYTA	4011	2352	11760	6041.0	5021.8	2899.3	3
		4 POLYPEDILU	2499	84	630	1071.0	1266.5	731.2	3
		4 PROCLADIUS	945	315	189	483.0	405.0	233.8	3
		4 PSECTROCLA	0	21	0	7.0	12.1	7.0	3
		4 TANYTARSUS	1050	1659	105	938.0	783.0	452.1	3
		4 THIENEMANN	21	0	0	7.0	12.1	7.0	3
		12 ASELLUS	0	21	21	14.0	12.1	7.0	3
		12 LIRCEUS	21	63	63	49.0	24.2	14.0	3
		13 GAMMARUS	63	21	0	28.0	32.1	18.5	3
		13 HYALELLA A	651	945	945	847.0	169.7	98.0	3
		15 HYDRACARIN	63	63	84	70.0	12.1	7.0	3
		16 AMNICOLA L	525	42	903	490.0	431.6	249.2	3
		16 GYRAULUS P	0	0	42	14.0	24.2	14.0	3
		16 PHYSA INTE	0	0	42	14.0	24.2	14.0	3
		16 PROBYTHINE	84	21	0	35.0	43.7	25.2	3
		16 VALVATA TR	63	0	63	42.0	36.4	21.0	3
		17 PISIDIUM N	84	0	0	28.0	48.5	28.0	3
		17 SPHAER. NI	0	0	168	56.0	97.0	56.0	3
		19 OLIGOCHAET	5103	4746	11130	6993.0	3587.2	2071.1	3
		20 TURBELLARI	0	21	0	7.0	12.1	7.0	3
		21 NEMATODA	0	0	420	140.0	242.5	140.0	3
		24 HIRUDINEA	21	63	0	28.0	32.1	18.5	3

Grand Sum = 67830 Mean = 22610.0 Std.Dev. = 9696.5 Std.Err = 5598.3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
05/24/82	2/C	1 EPHEMERA	861	357	903	707.0	303.8	175.4	3
		1 HEXAGENIA	693	168	1050	637.0	443.7	256.1	3
		2 LEPIDOSTOM	21	0	0	7.0	12.1	7.0	3
		2 MOLANNA	0	21	0	7.0	12.1	7.0	3
		2 MYSTACIDES	0	21	21	14.0	12.1	7.0	3
		2 NEURECLIPS	21	0	0	7.0	12.1	7.0	3
		2 POLYCENTRO	42	0	42	28.0	24.2	14.0	3
		2 TRIAENODES	21	21	0	14.0	12.1	7.0	3
		4 CERATOPOGO	147	231	483	287.0	174.9	101.0	3
		4 CHIR. PUPA	21	0	42	21.0	21.0	12.1	3
		4 CORYNONEUR	0	21	0	7.0	12.1	7.0	3
		4 CRICOTOPUS	1302	0	1323	875.0	757.8	437.5	3
		4 CRYPTOCHIR	861	651	504	672.0	179.4	103.6	3
		4 DICROTENDI	84	294	105	161.0	115.7	66.8	3
		4 EPOICOCLAD	21	0	0	7.0	12.1	7.0	3
		4 LARSIA	2541	1911	3381	2611.0	737.5	425.8	3
		4 MONODIAMES	21	63	21	35.0	24.2	14.0	3
		4 PARACHIRON	0	630	630	420.0	363.7	210.0	3
		4 PHRYGANEA	21	0	0	7.0	12.1	7.0	3
		4 POLYPEDILU	2121	1218	3885	2408.0	1356.5	783.2	3
		4 POTTHASTIA	0	42	42	28.0	24.2	14.0	3
		4 PROCLADIUS	819	504	399	574.0	218.6	126.2	3
		4 STICTOCHIR	0	21	0	7.0	12.1	7.0	3
		10 ACENTROPUS	42	21	0	21.0	21.0	12.1	3
		12 ASELLUS	0	0	42	14.0	24.2	14.0	3
		12 LIRCEUS	21	0	231	84.0	127.7	73.7	3
		13 GAMMARUS	0	0	126	42.0	72.7	42.0	3
		13 HYALELLA A	966	924	1134	1008.0	111.1	64.2	3
		15 HYDRACARIN	0	63	63	42.0	36.4	21.0	3
		16 AMNICOLA L	21	210	0	77.0	115.7	66.8	3
		16 GYRAULUS P	63	0	0	21.0	36.4	21.0	3
		16 HELISOMA	0	42	0	14.0	24.2	14.0	3
		16 HELISOMA A	0	0	21	7.0	12.1	7.0	3
		16 PLANORBULA	0	0	63	21.0	36.4	21.0	3
		16 VALVATA TR	84	63	21	56.0	32.1	18.5	3
		17 PISIDIUM	0	42	0	14.0	24.2	14.0	3
		17 SPHAER. RH	21	0	0	7.0	12.1	7.0	3
		17 SPHAERIUM	0	42	0	14.0	24.2	14.0	3
		19 OLIGOCHAET	1680	2835	2898	2471.0	685.7	395.9	3
		20 TURBELLARI	0	21	0	7.0	12.1	7.0	3
		21 NEMATODA	420	420	0	280.0	242.5	140.0	3
		23 OSTRACODA	0	0	63	21.0	36.4	21.0	3
		24 HIRUDINEA	21	21	21	21.0	0.0	0.0	3

Grand Sum = 41349 Mean = 13783.0 Std.Dev. = 3394.2 Std.Err = 1959.7

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
05 24 [illegible]	[illegible]	2 TRIANODES	0	0	21	7.0	12.1	7.0	3
		4 CERATOPOGO	0	21	210	77.0	115.7	66.8	3
		4 CRICOTOPUS	0	420	21	147.0	236.7	136.6	3
		4 LARSIA	0	0	210	70.0	121.2	70.0	3
		4 POLYPEDILU	0	0	441	147.0	254.6	147.0	3
		4 PROCLADIUS	0	0	210	70.0	121.2	70.0	3
		4 PSECTROCLA	21	0	651	224.0	369.9	213.6	3
		12 LIRCEUS	0	21	0	7.0	12.1	7.0	3
		16 AMNICOLA L	0	21	0	7.0	12.1	7.0	3
		16 PHYSA INTE	0	63	0	21.0	36.4	21.0	3
		17 SPHAER. NI	0	0	84	28.0	48.5	28.0	3
		19 OLIGOCHAET	63	63	2709	945.0	1527.7	882.0	3
		21 NEMATODA	0	0	21	7.0	12.1	7.0	3
		23 OSTRACODA	0	0	21	7.0	12.1	7.0	3
	Grand Sum = 5292		Mean = 1764.0		Std.Dev. = 2469.2		Std.Err = 1425.6		
	2/E	1 EPHEMERA	21	42	21	28.0	12.1	7.0	3
		1 HEXAGENIA	105	273	105	161.0	97.0	56.0	3
		2 POLYCENTRO	21	42	21	28.0	12.1	7.0	3
		2 TRIANODES	0	0	21	7.0	12.1	7.0	3
		4 CERATOPOGO	294	420	378	364.0	64.2	37.0	3
		4 CHIR. PUPA	0	0	21	7.0	12.1	7.0	3
		4 CRICOTOPUS	1176	420	630	742.0	390.2	225.3	3
		4 CRYPTOCHIR	0	84	21	35.0	43.7	25.2	3
		4 DICROTENDI	0	0	21	7.0	12.1	7.0	3
		4 EMPIDIDAE	0	0	21	7.0	12.1	7.0	3
		4 ENDOCHIRON	210	0	0	70.0	121.2	70.0	3
		4 EUKIEFFERI	0	0	42	14.0	24.2	14.0	3
		4 LARSIA	1092	1533	1680	1435.0	306.0	176.7	3
		4 MICROSPECT	0	0	1680	560.0	969.9	560.0	3
		4 PARACHIRON	252	1491	2772	1505.0	1260.1	727.5	3
		4 PHAENOSPEC	0	252	0	84.0	145.5	84.0	3
		4 POLYPEDILU	2457	3486	8211	4718.0	3068.5	1771.6	3
		4 PROCLADIUS	420	714	2373	1169.0	1053.0	608.0	3
		4 PSECTROCLA	0	189	126	105.0	96.2	55.6	3
		4 STICTOCHIR	420	252	273	315.0	91.5	52.8	3
		4 TANYTARSUS	0	63	126	63.0	63.0	36.4	3
		12 ASELLUS	378	483	357	406.0	67.5	39.0	3
		12 LIRCEUS	420	588	609	539.0	103.6	59.8	3
		13 GAMMARUS	0	0	21	7.0	12.1	7.0	3
		13 HYALELLA A	567	252	756	525.0	254.6	147.0	3
		15 HYDRACARIN	0	0	168	56.0	97.0	56.0	3
		16 AMNICOLA L	63	105	42	70.0	32.1	18.5	3
		16 GYRAULUS P	21	21	168	70.0	84.9	49.0	3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
05/24/82	2/E	16 PHYSA INTE	105	189	252	182.0	73.7	42.6	3
		17 PISIDIUM E	0	0	42	14.0	24.2	14.0	3
		17 PISIDIUM N	63	252	63	126.0	109.1	63.0	3
		19 OLIGOCHAET	10227	8442	4347	7672.0	3014.7	1740.5	3
		21 NEMATODA	420	420	420	420.0	0.0	0.0	3
		23 OSTRACODA	210	210	210	210.0	0.0	0.0	3
		24 HIRUDINEA	0	21	0	7.0	12.1	7.0	3
		Grand Sum = 65184	Mean = 21728.0		Std.Dev. = 3754.8		Std.Err = 2167.8		
	2/F	1 CAENIS	0	21	0	7.0	12.1	7.0	3
		1 EPHEMERA	21	21	0	14.0	12.1	7.0	3
		2 OECETIS	0	0	42	14.0	24.2	14.0	3
		2 TRIANODES	21	0	0	7.0	12.1	7.0	3
		3 COLEOPTERA	0	0	210	70.0	121.2	70.0	3
		4 CARDIOCLAD	21	378	105	168.0	186.7	107.8	3
		4 CERATOPOGO	462	210	0	224.0	231.3	133.6	3
		4 CHIR. PUPA	42	0	0	14.0	24.2	14.0	3
		4 CONSTEMPEL	210	0	0	70.0	121.2	70.0	3
		4 CRICOTOPUS	546	21	0	189.0	309.3	178.6	3
		4 CRYPTOCHIR	42	21	231	98.0	115.7	66.8	3
		4 DICROTENDI	0	777	0	259.0	448.6	259.0	3
		4 LARSIA	1260	210	0	490.0	675.1	389.7	3
		4 MONODIAMES	21	273	42	112.0	139.8	80.7	3
		4 PARATANYTA	147	0	756	301.0	400.8	231.4	3
		4 POLYPEDILU	5754	273	441	2156.0	3117.1	1799.7	3
		4 PROCLADIUS	252	0	0	84.0	145.5	84.0	3
		4 PSECTROCLA	1785	0	0	595.0	1030.6	595.0	3
		4 STICTOCHIR	42	0	0	14.0	24.2	14.0	3
		12 LIRCEUS	21	0	0	7.0	12.1	7.0	3
		13 GAMMARUS	42	0	0	14.0	24.2	14.0	3
		13 HYALELLA A	1155	147	0	434.0	628.7	363.0	3
		15 HYDRACARIN	189	63	42	98.0	79.5	45.9	3
		16 AMNICOLA L	714	0	147	287.0	377.0	217.7	3
		16 AMNICOLA M	0	21	0	7.0	12.1	7.0	3
		16 FOSSARIA P	42	0	0	14.0	24.2	14.0	3
		16 GONIOBASIS	21	0	0	7.0	12.1	7.0	3
		16 GYRAULUS P	21	0	0	7.0	12.1	7.0	3
		16 PHYSA INTE	42	21	0	21.0	21.0	12.1	3
		16 PROBYTHINE	231	0	0	77.0	133.4	77.0	3
		16 VALVATA SI	0	21	0	7.0	12.1	7.0	3
		16 VALVATA TR	63	0	0	21.0	36.4	21.0	3
		17 PISIDIUM E	231	0	0	77.0	133.4	77.0	3
		17 PISIDIUM N	105	0	0	35.0	60.6	35.0	3
		17 SPHAER. NI	21	0	0	7.0	12.1	7.0	3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
05/24/82	2/F	19 OLIGOCHAET	7014	3192	1197	3801.0	2955.9	1706.6	3
		20 TURBELLARI	0	21	0	7.0	12.1	7.0	3
		21 NEMATODA	420	441	0	287.0	248.8	143.6	3
		23 OSTRACODA	210	0	0	70.0	121.2	70.0	3

Grand Sum = 30513 Mean = 10171.0 Std.Dev. = 9634.9 Std.Err = 5562.7

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
05/26/82	3/B	1 CAENIS	231	0	0	77.0	133.4	77.0	3
		1 EPHEMERA	126	63	336	175.0	142.9	82.5	3
		1 HEXAGENIA	63	147	84	98.0	43.7	25.2	3
		1 UNIDENTIFI	210	0	0	70.0	121.2	70.0	3
		2 OECETIS	0	0	21	7.0	12.1	7.0	3
		2 PHYLOCENTR	21	0	0	7.0	12.1	7.0	3
		4 CERATOPOGO	1176	126	483	595.0	533.9	308.2	3
		4 CHIR. PUPA	0	21	21	14.0	12.1	7.0	3
		4 CHIRONOMIN	420	0	0	140.0	242.5	140.0	3
		4 CHIRONOMUS	0	42	0	14.0	24.2	14.0	3
		4 CRICOTOPUS	0	0	21	7.0	12.1	7.0	3
		4 CRYPTOCLAD	0	0	210	70.0	121.2	70.0	3
		4 DICROTENDI	210	0	0	70.0	121.2	70.0	3
		4 EUKIEFFERI	0	21	0	7.0	12.1	7.0	3
		4 LARSIA	861	0	861	574.0	497.1	287.0	3
		4 MICROSPECT	462	0	0	154.0	266.7	154.0	3
		4 PARALAUTER	0	0	441	147.0	254.6	147.0	3
		4 POLYPEDILU	1617	1155	420	1064.0	603.7	348.5	3
		4 POTTHASTIA	210	0	21	77.0	115.7	66.8	3
		4 PSECTROTAN	4557	0	0	1519.0	2631.0	1519.0	3
		4 STEMPELLIN	105	0	0	35.0	60.6	35.0	3
		4 TANYTARSUS	21	0	630	217.0	357.8	206.6	3
		13 HYALELLA A	294	0	63	119.0	154.8	89.4	3
		15 HYDRACARIN	0	0	42	14.0	24.2	14.0	3
		16 AMNICOLA	84	84	42	70.0	24.2	14.0	3
		16 HELISOMA	0	84	42	42.0	42.0	24.2	3
		17 SPHAERIUM	63	0	42	35.0	32.1	18.5	3
		19 OLIGOCHAET	4557	1659	3465	3227.0	1463.6	845.0	3
		21 NEMATODA	30618	8190	12495	17101.0	11902.3	6871.8	3
		23 OSTRACODA	630	1050	420	700.0	320.8	185.2	3
		Grand Sum = 79338	Mean = 26446.0			Std.Dev. = 17799.9		Std.Err = 10276.8	
	3/C	1 HEXAGENIA	399	315	588	434.0	139.8	80.7	3
		2 PHYLOCENTR	0	42	0	14.0	24.2	14.0	3
		2 TRIANODES	21	0	0	7.0	12.1	7.0	3
		4 CERATOPOGO	1197	903	1050	1050.0	147.0	84.9	3
		4 CHIR. PUPA	84	42	42	56.0	24.2	14.0	3
		4 CRICOTOPUS	210	21	1092	441.0	571.6	330.0	3
		4 DICROTENDI	63	0	0	21.0	36.4	21.0	3
		4 EUKIEFFERI	0	0	210	70.0	121.2	70.0	3
		4 GLYPTOTEND	840	0	0	280.0	485.0	280.0	3
		4 HETEROTRIS	0	21	105	42.0	55.6	32.1	3
		4 LARSIA	1701	3318	1218	2079.0	1099.8	635.0	3
		4 ORTHOCLADI	0	63	0	21.0	36.4	21.0	3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
05/26/82	3/C	4 PARATANYTA	0	0	210	70.0	121.2	70.0	3
		4 POLYPEDILU	4137	3528	2877	3514.0	630.1	363.8	3
		4 PROCLADIUS	147	231	1050	525.0	431.4	249.1	3
		4 PSECTROCLA	0	0	210	70.0	121.2	70.0	3
		4 SMITTIA	0	0	105	35.0	60.6	35.0	3
		4 STEMPELLIN	0	21	777	266.0	442.7	255.6	3
		4 TRIBELOS	0	21	0	7.0	12.1	7.0	3
		12 ASELLUS	21	0	63	28.0	32.1	18.5	3
		12 LIRCEUS	756	840	693	763.0	73.7	42.6	3
		13 HYALELLA A	357	273	651	427.0	198.5	114.6	3
		15 HYDRACARIN	84	42	63	63.0	21.0	12.1	3
		16 AMNICOLA	0	21	0	7.0	12.1	7.0	3
		16 APLEXA	0	21	0	7.0	12.1	7.0	3
		16 GYRAULUS	0	21	0	7.0	12.1	7.0	3
		16 HELISOMA	0	42	0	14.0	24.2	14.0	3
		16 PHYSA	21	0	0	7.0	12.1	7.0	3
		16 VALVATA	42	0	0	14.0	24.2	14.0	3
		17 PISIDIUM	105	0	0	35.0	60.6	35.0	3
		17 SPHAERIUM	0	84	42	42.0	42.0	24.2	3
		19 OLIGOCHAET	1911	2079	1407	1799.0	349.7	201.9	3
		20 TURBELLARI	231	63	0	98.0	119.4	68.9	3
		21 NEMATODA	9492	6636	9303	8477.0	1597.1	922.1	3
		Grand Sum = 62223	Mean = 20741.0		Std.Dev. = 1812.9		Std.Err = 1046.7		
	3/D	1 HEXAGENIA	0	21	21	14.0	12.1	7.0	3
		4 CERATOPOGO	0	21	210	77.0	115.7	66.8	3
		4 CRICOTOPUS	0	21	0	7.0	12.1	7.0	3
		4 CRYPTOCLAD	0	210	0	70.0	121.2	70.0	3
		4 DEMICRYPTO	21	0	0	7.0	12.1	7.0	3
		4 LARSIA	0	21	0	7.0	12.1	7.0	3
		4 POLYPEDILU	0	63	0	21.0	36.4	21.0	3
		4 PROCLADIUS	0	21	630	217.0	357.8	206.6	3
		4 TRIBELOS	0	0	21	7.0	12.1	7.0	3
		13 HYALELLA A	0	21	0	7.0	12.1	7.0	3
		19 OLIGOCHAET	0	0	231	77.0	133.4	77.0	3
		20 TURBELLARI	21	0	0	7.0	12.1	7.0	3
		21 NEMATODA	1260	210	1680	1050.0	757.2	437.1	3
		26 HYDRIDAE	0	0	210	70.0	121.2	70.0	3
		Grand Sum = 4914	Mean = 1638.0		Std.Dev. = 1231.9		Std.Err = 711.2		
	3/E	1 BAETIDAE	42	0	0	14.0	24.2	14.0	3
		1 EPHEMERELL	21	0	0	7.0	12.1	7.0	3
		1 HEXAGENIA	84	105	42	77.0	32.1	18.5	3
		2 TRIANODES	63	0	0	21.0	36.4	21.0	3
		4 ABLABESMYI	3360	0	0	1120.0	1939.9	1120.0	3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
05/26/82	3/E	4 CERATOPOGO	231	63	21	105.0	111.1	64.2	3
		4 CHIR. PUPA	63	0	0	21.0	36.4	21.0	3
		4 DICROTENDI	0	42	0	14.0	24.2	14.0	3
		4 HETEROTRIS	0	0	21	7.0	12.1	7.0	3
		4 LABRUNDINI	0	0	210	70.0	121.2	70.0	3
		4 LARSIA	63	0	567	210.0	310.8	179.4	3
		4 ORTHOCLADI	0	0	42	14.0	24.2	14.0	3
		4 PARACHIRON	420	0	0	140.0	242.5	140.0	3
		4 PARATANYTA	0	0	21	7.0	12.1	7.0	3
		4 POLYPEDILU	11634	0	1575	4403.0	6311.6	3644.0	3
		4 PROCLADIUS	3213	756	252	1407.0	1584.2	914.6	3
		4 PSECTROCLA	126	0	0	42.0	72.7	42.0	3
		4 SMITTIA	0	0	210	70.0	121.2	70.0	3
		4 TRIBELOS	0	0	42	14.0	24.2	14.0	3
		12 ASELLUS	168	147	21	112.0	79.5	45.9	3
		12 LIRCEUS	315	84	42	147.0	147.0	84.9	3
		13 HYALELLA A	273	105	63	147.0	111.1	64.2	3
		15 HYDRACARIN	126	0	0	42.0	72.7	42.0	3
		19 OLIGOCHAET	10815	1659	1827	4767.0	5238.4	3024.4	3
		21 NEMATODA	14091	7812	3213	8372.0	5460.6	3152.7	3
		26 HYDRIDAE	1470	0	0	490.0	848.7	490.0	3
		Grand Sum = 65520	Mean = 21840.0			Std.Dev. = 21463.3		Std.Err = 12391.8	
	3/F	1 EPHEMERA	63	21	147	77.0	64.2	37.0	3
		1 UNIDENTIFI	210	0	0	70.0	121.2	70.0	3
		4 CERATOPOGO	21	42	672	245.0	369.9	213.6	3
		4 CHIR. PUPA	0	0	42	14.0	24.2	14.0	3
		4 CLADOTANYT	2100	21	21	714.0	1200.3	693.0	3
		4 CRYPTOCHIR	42	0	0	14.0	24.2	14.0	3
		4 DEMICRYPTO	0	0	21	7.0	12.1	7.0	3
		4 EMPIDIDAE	0	0	21	7.0	12.1	7.0	3
		4 ORTHOCLADI	0	0	420	140.0	242.5	140.0	3
		4 POLYPEDILU	63	0	42	35.0	32.1	18.5	3
		4 PSECTROTAN	0	21	0	7.0	12.1	7.0	3
		4 STICTOCHIR	231	0	126	119.0	115.7	66.8	3
		13 HYALELLA A	0	0	21	7.0	12.1	7.0	3
		15 HYDRACARIN	21	0	126	49.0	67.5	39.0	3
		16 AMNICOLA	0	0	126	42.0	72.7	42.0	3
		16 HELISOMA	0	0	84	28.0	48.5	28.0	3
		16 PLEUROCERA	21	21	0	14.0	12.1	7.0	3
		17 PISIDIUM	21	63	21	35.0	24.2	14.0	3
		17 SPHAERIUM	105	63	84	84.0	21.0	12.1	3
		19 OLIGOCHAET	735	2121	4620	2492.0	1968.9	1136.7	3
		21 NEMATODA	20160	15330	26901	20797.0	5811.7	3355.4	3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
05/26/82	3/F	23 OSTRACODA	210	0	0	70.0	121.2	70.0	3
		27 MANAYUNKIA	0	0	210	70.0	121.2	70.0	3

Grand Sum = 75411 Mean = 25137.0 Std.Dev. = 8061.0 Std.Err = 4654.0

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
06/01/82	4/B	1 EPHEMERA	42	0	0	14.0	24.2	14.0	3
		1 UNIDENTIFI	420	630	210	420.0	210.0	121.2	3
		2 OECETIS	42	0	0	14.0	24.2	14.0	3
		4 CERATOPOGO	0	63	210	91.0	107.8	62.2	3
		4 CHIR. PUPA	63	210	21	98.0	99.2	57.3	3
		4 CRYPTOCHIR	21	63	21	35.0	24.2	14.0	3
		4 DEMICRYPTO	21	0	21	14.0	12.1	7.0	3
		4 EUKIEFFERI	0	0	21	7.0	12.1	7.0	3
		4 LARSIA	714	231	0	315.0	364.3	210.3	3
		4 MICROSPECT	42	63	0	35.0	32.1	18.5	3
		4 PARATANYTA	42	0	0	14.0	24.2	14.0	3
		4 POLYPEDILU	1512	84	294	630.0	771.0	445.1	3
		4 PROCLADIUS	21	84	231	112.0	107.8	62.2	3
		4 PSECTROCLA	0	210	0	70.0	121.2	70.0	3
		4 PSEUDOSMIT	105	0	0	35.0	60.6	35.0	3
		4 STEMPELLIN	210	63	0	91.0	107.8	62.2	3
		4 STICTOCHIR	630	189	252	357.0	238.5	137.7	3
		4 TANYTARSUS	5250	672	210	2044.0	2786.1	1608.5	3
		13 HYALELLA A	21	0	0	7.0	12.1	7.0	3
		15 HYDRACARIN	105	42	42	63.0	36.4	21.0	3
		16 AMNICOLA	63	168	63	98.0	60.6	35.0	3
		16 HELISOMA	105	0	63	56.0	52.8	30.5	3
		16 LYMNAEA	0	63	21	28.0	32.1	18.5	3
		16 VALVATA	42	0	0	14.0	24.2	14.0	3
		17 PISIDIUM	0	63	0	21.0	36.4	21.0	3
		17 SPHAERIUM	21	0	21	14.0	12.1	7.0	3
		19 OLIGOCHAET	5943	8820	2583	5782.0	3121.6	1802.3	3
		20 TURBELLARI	21	0	0	7.0	12.1	7.0	3
		21 NEMATODA	22281	32760	15750	23597.0	8581.0	4954.3	3
		Grand Sum = 102249	Mean = 34083.0			Std.Dev. = 12625.0		Std.Err = 7289.1	
	4/C	1 CAENIS	0	21	0	7.0	12.1	7.0	3
		1 HEXAGENIA	105	84	126	105.0	21.0	12.1	3
		2 POLYCENTRO	0	0	21	7.0	12.1	7.0	3
		4 ABLABESMYI	0	882	0	294.0	509.2	294.0	3
		4 CERATOPOGO	294	2331	966	1197.0	1038.0	599.3	3
		4 CHIR. PUPA	0	777	0	259.0	448.6	259.0	3
		4 CONSTEMPEL	0	1995	0	665.0	1151.8	665.0	3
		4 CORYNONEUR	0	21	0	7.0	12.1	7.0	3
		4 CRICOTOPUS	0	1113	0	371.0	642.6	371.0	3
		4 CRYPTOCHIR	0	231	0	77.0	133.4	77.0	3
		4 EMPIDIDAE	21	0	0	7.0	12.1	7.0	3
		4 LARSIA	0	420	42	154.0	231.3	133.6	3
		4 PARACHIRON	315	0	0	105.0	181.9	105.0	3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (#. / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
06/01/82	4/C	4 PARACLADOP	42	0	0	14.0	24.2	14.0	3
		4 POLYPEDILU	609	105	273	329.0	256.6	148.2	3
		4 PROCLADIUS	0	21	84	35.0	43.7	25.2	3
		4 PSECTROTAN	0	0	420	140.0	242.5	140.0	3
		4 STEMPELLIN	0	0	21	7.0	12.1	7.0	3
		4 TRIBELOS	0	0	21	7.0	12.1	7.0	3
		9 SIALIS	0	42	0	14.0	24.2	14.0	3
		16 AMNICOLA L	21	84	0	35.0	43.7	25.2	3
		17 PISIDIUM	0	0	84	28.0	48.5	28.0	3
		17 PISIDIU" I	0	84	0	28.0	48.5	28.0	3
		17 SPHAER. SI	84	63	0	49.0	43.7	25.2	3
		17 SPHAER. ST	0	252	0	84.0	145.5	84.0	3
		17 SPHAERIUM	0	0	42	14.0	24.2	14.0	3
		19 OLIGOCHAET	1554	19026	1008	7196.0	10248.7	5917.1	3
		21 NEMATODA	0	34461	7350	13937.0	18150.3	10479.1	3
		27 POLYCHAETA	1071	0	0	357.0	618.3	357.0	3
		Grand Sum = 76587	Mean = 25529.0			Std.Dev. = 31754.8		Std.Err = 18333.6	
	4/D	1 CAENIS	21	0	0	7.0	12.1	7.0	3
		1 HEXAGENIA	0	0	21	7.0	12.1	7.0	3
		4 CERATOPOGO	0	21	315	112.0	176.1	101.7	3
		4 CHIR. PUPA	147	0	63	70.0	73.7	42.6	3
		4 CRICOTOPUS	1092	21	336	483.0	550.4	317.8	3
		4 CRYPTOCHIR	0	0	420	140.0	242.5	140.0	3
		4 ORTHOCLADI	0	483	0	161.0	278.9	161.0	3
		4 PROCLADIUS	0	0	21	7.0	12.1	7.0	3
		4 PSECTROCLA	0	0	21	7.0	12.1	7.0	3
		9 SIALIS	21	0	21	14.0	12.1	7.0	3
		15 HYDRACARIN	0	0	21	7.0	12.1	7.0	3
		16 FOSSARIA P	0	0	21	7.0	12.1	7.0	3
		16 VALVATA TR	0	0	21	7.0	12.1	7.0	3
		17 PISIDIUM N	0	0	63	21.0	36.4	21.0	3
		17 SPHAER. SI	21	0	42	21.0	21.0	12.1	3
		17 SPHAER. ST	0	21	63	28.0	32.1	18.5	3
		19 OLIGOCHAET	29862	20895	17199	22652.0	6511.8	3759.6	3
		21 NEMATODA	9631	0	420	3017.0	4866.4	2809.6	3
		27 POLYCHAETA	0	10080	0	3360.0	5819.7	3360.0	3
		Grand Sum = 90384	Mean = 30128.0			Std.Dev. = 10433.5		Std.Err = 6023.8	
	4/E	1 CALLIBAETI	0	0	21	7.0	12.1	7.0	3
		1 EPHEMERELL	0	0	21	7.0	12.1	7.0	3
		1 HEXAGENIA	147	126	252	175.0	67.5	39.0	3
		2 POLYCENTRO	42	21	0	21.0	21.0	12.1	3
		4 ABLABESMYI	63	0	42	35.0	32.1	18.5	3
		4 CERATOPOGO	378	0	441	273.0	238.5	137.7	3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
06/01/82	4/E	4 CHIR. PUPA	21	0	63	28.0	32.1	18.5	3
		4 CONSTEMPEL	0	21	294	105.0	164.0	94.7	3
		4 CRICOTOPUS	0	0	210	70.0	121.2	70.0	3
		4 CRYPTOCHIR	0	0	357	119.0	206.1	119.0	3
		4 LARSIA	777	651	756	728.0	67.5	39.0	3
		4 PARACLADOP	84	0	0	28.0	48.5	28.0	3
		4 PARATANYTA	168	0	0	56.0	97.0	56.0	3
		4 POLYPEDILU	4956	672	7434	4354.0	3421.0	1975.1	3
		4 PROCLADIUS	210	21	399	210.0	189.0	109.1	3
		4 PSECTROCLA	462	0	0	154.0	266.7	154.0	3
		4 STICTOCHIR	1701	1533	1617	1617.0	84.0	48.5	3
		4 TANYTARSUS	0	0	63	21.0	36.4	21.0	3
		9 SIALIS	0	0	21	7.0	12.1	7.0	3
		12 ASELLUS	882	168	84	378.0	438.5	253.2	3
		12 LIRCEUS	525	63	147	245.0	246.1	142.1	3
		13 GAMMARUS	21	0	21	14.0	12.1	7.0	3
		13 HYALELLA A	441	0	84	175.0	234.2	135.2	3
		15 HYDRACARIN	63	0	63	42.0	36.4	21.0	3
		16 AMNICOLA L	105	0	0	35.0	60.6	35.0	3
		16 CAMPELOMA	42	0	0	14.0	24.2	14.0	3
		16 GYRAULUS P	21	0	0	7.0	12.1	7.0	3
		16 PHYSA INTE	63	42	0	35.0	32.1	18.5	3
		16 PLANORBULA	0	0	21	7.0	12.1	7.0	3
		17 SPHAER. ST	21	0	0	7.0	12.1	7.0	3
		19 OLIGOCHAET	3297	294	63	1218.0	1804.2	1041.6	3
		20 TURBELLARI	21	0	63	28.0	32.1	18.5	3
		21 NEMATODA	8400	0	0	2800.0	4849.7	2800.0	3
		Grand Sum = 39060	Mean = 13020.0			Std.Dev. = 9658.6	Std.Err = 5576.4		
	4/F	1 EPHEMERA	126	168	63	119.0	52.8	30.5	3
		1 HEXAGENIA	84	294	84	154.0	121.2	70.0	3
		2 MYSTACIDES	42	0	0	14.0	24.2	14.0	3
		2 POLYCENTRO	63	0	0	21.0	36.4	21.0	3
		4 ABLABESMYI	0	21	0	7.0	12.1	7.0	3
		4 CARDIOCLAD	21	0	0	7.0	12.1	7.0	3
		4 CERATOPOGO	147	714	21	294.0	369.1	213.1	3
		4 CONSTEMPEL	2751	0	861	1204.0	1407.2	812.5	3
		4 CRICOTOPUS	1890	1071	210	1057.0	840.1	485.0	3
		4 CRYPTOCHIR	210	42	0	84.0	111.1	64.2	3
		4 CRYPTOCLAD	1050	0	210	420.0	555.6	320.8	3
		4 DICROTENDI	0	525	483	336.0	291.7	168.4	3
		4 LARSIA	1953	945	210	1036.0	875.1	505.2	3
		4 MICROSPECT	840	210	0	350.0	437.1	252.4	3
		4 PARATANYTA	0	21	0	7.0	12.1	7.0	3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
06/01/82	4/F	4 POLYPEDILU	63	462	0	175.0	250.5	144.6	3
		4 PROCLADIUS	252	630	0	294.0	317.1	183.1	3
		4 STICTOCHIR	315	1995	0	770.0	1072.5	619.2	3
		12 LIRCEUS	168	252	63	161.0	94.7	54.7	3
		13 HYALELLA A	63	210	21	98.0	99.2	57.3	3
		15 HYDRACARIN	294	105	0	133.0	149.0	86.0	3
		16 CAMPELOMA	21	0	0	7.0	12.1	7.0	3
		16 GONIOBASIS	0	0	21	7.0	12.1	7.0	3
		16 SYRAULUS P	0	0	21	7.0	12.1	7.0	3
		16 PHYSA INTE	0	0	21	7.0	12.1	7.0	3
		16 VALVATA TR	42	63	0	35.0	32.1	18.5	3
		19 OLIGOCHAET	21819	10731	2772	11774.0	9566.2	5523.1	3
		21 NEMATODA	25410	420	0	8610.0	14550.7	8400.9	3
		23 OSTRACODA	210	0	0	70.0	121.2	70.0	3

Grand Sum = 81774 Mean = 27258.0 Std.Dev. = 27366.1 Std.Err = 15799.8

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
06/07/82	1/B	1 BAETIS	21	0	0	7.0	12.1	7.0	3
		1 CAENIS	63	126	210	133.0	73.7	42.6	3
		1 EPHEMERA	0	336	462	266.0	238.8	137.9	3
		1 HEXAGENIA	0	462	546	336.0	294.0	169.7	3
		2 HELICOPSYC	0	0	21	7.0	12.1	7.0	3
		2 MOLANNA	21	0	42	21.0	21.0	12.1	3
		2 MYSTACIDES	0	42	0	14.0	24.2	14.0	3
		2 OECETIS	0	21	0	7.0	12.1	7.0	3
		2 SETODES	0	0	21	7.0	12.1	7.0	3
		4 ABLABESMYI	42	0	0	14.0	24.2	14.0	3
		4 CERATOPOGO	231	756	714	567.0	291.7	168.4	3
		4 CHIR. PUPA	0	0	21	7.0	12.1	7.0	3
		4 CLADOTANYT	0	0	1260	420.0	727.5	420.0	3
		4 DICROTENDI	42	0	0	14.0	24.2	14.0	3
		4 ENDOCHIRON	0	21	0	7.0	12.1	7.0	3
		4 GLYPTOTEND	42	0	0	14.0	24.2	14.0	3
		4 LARSIA	0	42	0	14.0	24.2	14.0	3
		4 MONODIAMES	0	0	21	7.0	12.1	7.0	3
		4 PARACHIRON	0	0	210	70.0	121.2	70.0	3
		4 PARACLADOP	42	0	0	14.0	24.2	14.0	3
		4 PARATANYTA	147	1365	1995	1169.0	939.5	542.4	3
		4 POLYPEDILU	0	3759	3171	2310.0	2022.3	1167.4	3
		4 PROCLADIUS	0	105	1050	385.0	573.2	331.0	3
		8 SIGARA	0	0	21	7.0	12.1	7.0	3
		13 HYALELLA A	0	105	21	42.0	55.6	32.1	3
		16 AMNICOLA	0	63	0	21.0	36.4	21.0	3
		16 GYRAULUS	21	0	0	7.0	12.1	7.0	3
		16 PHYSA	0	21	0	7.0	12.1	7.0	3
		16 PROBYTHINE	0	0	42	14.0	24.2	14.0	3
		16 VALVATA	0	21	0	7.0	12.1	7.0	3
		16 VALVATA PE	0	0	21	7.0	12.1	7.0	3
		16 VALVATA SI	84	0	0	28.0	48.5	28.0	3
		16 VALVATA TR	42	0	0	14.0	24.2	14.0	3
		17 PISIDIUM	21	0	0	7.0	12.1	7.0	3
		17 SPHAER. ST	0	0	21	7.0	12.1	7.0	3
		19 OLIGOCHAET	315	1617	2352	1428.0	1031.6	595.5	3
		Grand Sum = 22218	Mean = 740.6			Std.Dev. = 1085.6	Std.Err. = 198.2		
06/09/82	1/C	1 CAENIS	0	0	21	7.0	12.1	7.0	3
		1 EPHEMERA	42	294	336	224	151	87.2	3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
06/09/82	1/C	1 HEIAGENIA	63	0	294	119.0	154.8	89.4	3
		1 LEPTOPHLEB	0	0	84	28.0	48.5	28.0	3
		2 LEPIDOSTOM	0	21	0	7.0	12.1	7.0	3
		2 MOLANNA	0	42	0	14.0	24.2	14.0	3
		2 NEURECLIPS	0	21	0	7.0	12.1	7.0	3
		2 OECETIS	21	0	21	14.0	12.1	7.0	3
		2 POLYCENTRO	0	42	168	70.0	87.4	50.5	3
		2 SETODES	0	21	0	7.0	12.1	7.0	3
		4 ABLABESMYI	0	0	714	238.0	412.2	238.0	3
		4 CERATOPOGO	483	105	126	238.0	212.4	122.6	3
		4 CHIR. PUPA	105	63	0	56.0	52.8	30.5	3
		4 CLADOTANYT	2163	2142	0	1435.0	1242.8	717.5	3
		4 CRYPTOCHIR	336	336	273	315.0	36.4	21.0	3
		4 DICROTENDI	0	1050	210	420.0	555.6	320.8	3
		4 EPOICOCLAD	0	147	231	126.0	116.9	67.5	3
		4 EUKIEFFERI	0	0	21	7.0	12.1	7.0	3
		4 LARSIA	210	63	882	385.0	436.6	252.1	3
		4 MONODIAMES	147	168	42	119.0	67.5	39.0	3
		16 PLEUROCERA	21	0	0	7.0	12.1	7.0	3
		4 PARATANYTA	0	0	420	140.0	242.5	140.0	3
		4 POLYPEDILU	13083	7350	11508	10647.0	2961.9	1710.0	3
		4 POTTHASTIA	0	0	21	7.0	12.1	7.0	3
		4 PROCLADIUS	147	21	945	371.0	501.1	289.3	3
		4 PSEUDOCHIR	315	2415	0	910.0	1312.8	758.0	3
		4 TANYTARSUS	0	0	3150	1050.0	1818.7	1050.0	3
		12 ASELLUS	0	0	672	224.0	388.0	224.0	3
		12 LIRCEUS	0	21	1554	525.0	891.2	514.5	3
		13 GAMMARUS	21	21	0	14.0	12.1	7.0	3
		15 HYALELLA A	546	756	756	686.0	121.2	70.0	3
		15 HYDRACARIN	126	21	126	91.0	60.6	35.0	3
		16 CAMPELOMA	0	0	42	14.0	24.2	14.0	3
		16 FOSSARIA P	63	84	21	56.0	32.1	18.5	3
		16 HELISOMA A	21	21	0	14.0	12.1	7.0	3
		16 PROBYTHINE	84	168	0	119.0	103.6	59.8	3
		5 VALVATA SI	21	0	0	7.0	12.1	7.0	3
		6 VALVATA TR	63	168	0	77.0	84.9	49.0	3
		7 PISIDIUM C	105	126	63	98.0	32.1	18.5	3
		7 PISIDIUM E	105	84	210	133.0	67.5	39.0	3
		7 PISIDIUM T	0	63	0	21.0	36.4	21.0	3
		7 SPHAER SW	0	0	0	0.0	12.1	7.0	3
		7 SPHAER SI	0	21	0	7.0	12.1	7.0	3
		7 SPHAER ST	0	42	0	14.0	24.2	14.0	3
		7 SPHAERIUM	0	0	63	42.0	36.4	21.0	3

GEAR : PONAR

DATE	STA	SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
06/09/82	1	C	19 OLIGOCHAET	1638	2625	2982	2415.0	696.2	401.9	3
			24 HIRUDINEA	0	0	42	14.0	24.2	14.0	3
			Grand Sum = 64638	Mean = 21546.0		Std.Dev. = 3937.3		Std.Err = 2273.2		
	1	D	4 CERATOPOGO	0	210	420	210.0	210.0	121.2	3
			4 CHIR. PUPA	0	0	84	28.0	48.5	28.0	3
			4 CHIRONOMID	0	252	0	84.0	145.5	84.0	3
			4 CRICOTOPUS	210	0	0	70.0	121.2	70.0	3
			4 CRYPTOCHIR	0	0	210	70.0	121.2	70.0	3
			4 HETEROTRIS	0	0	84	28.0	48.5	28.0	3
			4 LARSIA	210	0	0	70.0	121.2	70.0	3
			4 PARATANYTA	21	0	0	7.0	12.1	7.0	3
			4 PROCLADIUS	0	0	21	7.0	12.1	7.0	3
			4 PSEUDOCHIR	0	0	294	98.0	169.7	98.0	3
			19 OLIGOCHAET	0	0	231	77.0	133.4	77.0	3
			Grand Sum = 2247	Mean = 749.0		Std.Dev. = 515.4		Std.Err = 297.6		
	1	E	4 CARDIOCLAD	0	0	21	7.0	12.1	7.0	3
			4 CERATOPOGO	42	462	0	168.0	255.5	147.5	3
			4 CHIR. PUPA	0	189	210	133.0	115.7	66.8	3
			4 CLADOTANYT	0	1050	0	350.0	606.2	350.0	3
			4 CRICOTOPUS	0	0	1008	336.0	582.0	336.0	3
			4 CRYPTOCHIR	0	84	0	28.0	48.5	28.0	3
			4 DICROTENDI	0	630	0	210.0	363.7	210.0	3
			4 HETEROTRIS	357	378	0	245.0	212.4	122.6	3
			4 LARSIA	0	504	0	168.0	291.0	168.0	3
			4 MONODIAMES	0	63	0	21.0	36.4	21.0	3
			4 PARACHIRON	0	210	0	70.0	121.2	70.0	3
			4 PARATANYTA	0	0	420	140.0	242.5	140.0	3
			4 POLYPEDILU	231	693	0	308.0	352.9	203.7	3
			4 PROCLADIUS	0	273	0	91.0	157.6	91.0	3
			4 PSEUDOCHIR	462	0	0	154.0	266.7	154.0	3
			4 TANYTARSUS	0	105	0	35.0	60.6	35.0	3
			4 THIENEMANN	0	0	714	238.0	412.2	238.0	3
			7 GAMMARUS	63	105	0	56.0	52.8	30.5	3
			7 PONTOPOREI	0	0	21	7.0	12.1	7.0	3
			5 HYDRACARIN	0	42	21	21.0	21.0	12.1	3
			6 CAMPELOMA	0	21	0	7.0	12.1	7.0	3
			6 HELISOMA A	0	21	0	7.0	12.1	7.0	3
			7 PISIDIUM	0	0	0	0.0	12.1	7.0	3
			7 PISIDIUM	0	336	0	112.0	218.2	126.0	3
			7 PISIDIUM M	0	63	0	35.0	60.6	35.0	3
			7 OLIGOCHAE	546	903	63	504.0	597.4	344.9	3
			NEMATODA	0	0	0	0.0	12.1	7.0	3
			Grand Sum = 192	Mean = 1864		Std.Dev. = 1648.2		Std.Err = 1519.0		

GEAR : PONAR

DATE	STA/SITE		TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
06/09/82	1/F	4	CARDIOCLAD	0	84	0	28.0	48.5	28.0	3
		4	CERATOPOGO	105	336	336	259.0	133.4	77.0	3
		4	CHIR. PUPA	63	0	0	21.0	36.4	21.0	3
		4	CRICOTOPUS	0	0	21	7.0	12.1	7.0	3
		4	CRYPTOCHIR	21	315	42	126.0	164.0	94.7	3
		4	EMPIDIDAE	21	273	21	105.0	145.5	84.0	3
		4	ENDOCHIRON	0	0	420	140.0	242.5	140.0	3
		4	GLYPTOTEND	357	924	0	427.0	466.0	269.0	3
		4	LARSIA	0	0	21	7.0	12.1	7.0	3
		4	MONODIAMES	0	21	0	7.0	12.1	7.0	3
		4	PARATANYTA	1239	0	84	441.0	692.4	399.7	3
		4	POLYPEDILU	0	21	126	49.0	67.5	39.0	3
		4	PROCLADIUS	0	0	21	7.0	12.1	7.0	3
		4	STICTOCHIR	0	0	21	7.0	12.1	7.0	3
		4	THIENEMANN	0	210	0	70.0	121.2	70.0	3
		13	GAMMARUS	0	21	21	14.0	12.1	7.0	3
		13	HYALELLA A	84	0	0	28.0	48.5	28.0	3
		16	VALVATA TR	0	21	0	7.0	12.1	7.0	3
		17	PISIDIUM N	63	0	0	21.0	36.4	21.0	3
		17	SPHAER. NI	21	0	0	7.0	12.1	7.0	3
		19	OLIGOCHAET	231	21	231	161.0	121.2	70.0	3

Grand Sum = 5817 Mean = 1939.0 Std.Dev. = 497.5 Std.Err = 287.3

GEAR : ECKMAN

DENSITIES (# / SQ. M)

DATE	STA/SITE		TAXON	REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
05/17/82	7/A	4	CERATOPOGO	430	0	0	143.3	248.3	143.3	3
		4	CRYPTOCHIR	86	43	0	43.0	43.0	24.8	3
		4	PARATANYTA	430	1720	2279	1476.3	948.3	547.5	3
		4	PSECTROCLA	0	0	430	143.3	248.3	143.3	3
		4	PSEUDOCHIR	0	0	43	14.3	24.8	14.3	3
		15	HYDRACARIN	0	0	43	14.3	24.8	14.3	3
		16	AMNICOLA	129	0	86	71.7	65.7	37.9	3
		16	GYRAULUS	43	0	0	14.3	24.8	14.3	3
		17	PISIDIUM	43	43	43	43.0	0.0	0.0	3
		19	OLIGOCHAET	3741	2236	4386	3454.3	1103.3	637.0	3
		29	UNKNOWN	0	430	0	143.3	248.3	143.3	3
		Grand Sum =		16684	Mean =	5561.3	Std.Dev. =	1529.6	Std.Err =	883.1	
	7/G	1	CAENIS	989	430	258	559.0	382.2	220.7	3
		1	EPHEMERA	86	0	86	57.3	49.7	28.7	3
		1	HEXAGENIA	344	86	387	272.3	162.8	94.0	3
		2	MYSTACIDES	0	43	0	14.3	24.8	14.3	3
		2	SETODES	0	0	43	14.3	24.8	14.3	3
		4	CERATOPOGO	0	473	473	315.3	273.1	157.7	3
		4	CRYPTOCHIR	946	0	903	616.3	534.2	308.4	3
		4	HETEROTRIS	430	430	0	286.7	248.3	143.3	3
		4	LARSIA	0	860	0	286.7	496.5	286.7	3
		4	PARATANYTA	0	430	129	186.3	220.7	127.4	3
		4	PHAENOSPEC	0	0	430	143.3	248.3	143.3	3
		4	POLYPEDILU	989	1032	2838	1619.7	1055.3	609.3	3
		4	PROCLADIUS	43	430	860	444.3	408.7	236.0	3
		4	RHEOTANYTA	0	860	0	286.7	496.5	286.7	3
		4	TANYTARSUS	860	0	0	286.7	496.5	286.7	3
		12	ASELLUS	0	0	86	28.7	49.7	28.7	3
		12	LIRCEUS	86	43	43	57.3	24.8	14.3	3
		13	GAMMARUS	0	0	43	14.3	24.8	14.3	3
		13	HYALELLA A	344	0	86	143.3	179.0	103.4	3
		15	HYDRACARIN	86	43	43	57.3	24.8	14.3	3
		16	AMNICOLA	0	129	172	100.3	89.5	51.7	3
		16	GYRAULUS	0	0	43	14.3	24.8	14.3	3
		17	PISIDIUM	0	0	43	14.3	24.8	14.3	3
		19	OLIGOCHAET	3827	4257	1419	3167.7	1529.6	883.1	3
		Grand Sum =		26961	Mean =	8987.0	Std.Dev. =	581.7	Std.Err =	335.8	

GEAR : ECKMAN

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
05/18/82	S/A	2 OECETIS	0	43	0	14.3	24.8	14.3	3
		4 CRYPTOCHIR	516	129	0	215.0	268.5	155.0	3
		4 DICROTENDI	86	258	0	114.7	131.4	75.8	3
		4 HYDRELLIA	0	43	0	14.3	24.8	14.3	3
		4 PARATANYTA	516	0	0	172.0	297.9	172.0	3
		4 POLYPEDILU	2193	1806	0	1333.0	1170.5	675.8	3
		4 PSECTROCLA	1290	0	0	430.0	744.8	430.0	3
		4 PSEUDOCHIR	0	172	43	71.7	89.5	51.7	3
		4 TANYTARSUS	0	0	43	14.3	24.8	14.3	3
		13 GAMMARUS	0	0	86	28.7	49.7	28.7	3
		13 HYALELLA A	0	0	43	14.3	24.8	14.3	3
		15 HYDRACARIN	0	43	0	14.3	24.8	14.3	3
		19 OLIGOCHAET	11997	6063	430	6163.3	5784.2	3339.5	3
		27 POLYCHAETA	430	0	0	143.3	248.3	143.3	3
		Grand Sum = 26230	Mean = 8743.3		Std.Dev. = 8193.1		Std.Err = 4730.3		
	S/G	1 CAENIS	602	0	64[illegible]	415.7	360.6	208.2	3
		2 HELICOPSYC	43	0	0	14.3	24.8	14.3	3
		2 OECETIS	86	0	43	43.0	43.0	24.8	3
		4 CRYPTOCHIR	473	43	0	172.0	261.6	151.0	3
		4 DICROTENDI	43	0	43	28.7	24.8	14.3	3
		4 LARSIA	43	0	0	14.3	24.8	14.3	3
		4 PARATANYTA	2236	0	430	888.7	1186.5	685.0	3
		4 POLYPEDILU	0	0	43	14.3	24.8	14.3	3
		4 PSECTROCLA	430	0	860	430.0	430.0	248.3	3
		4 STEMPELLIN	0	0	430	143.3	248.3	143.3	3
		13 HYALELLA A	43	0	129	57.3	65.7	37.9	3
		15 HYDRACARIN	86	0	129	71.7	65.7	37.9	3
		16 AMNICOLA	43	0	0	14.3	24.8	14.3	3
		16 FOSSARIA P	0	0	43	14.3	24.8	14.3	3
		16 HELISOMA	0	0	86	28.7	49.7	28.7	3
		17 PISIDIUM	43	0	0	14.3	24.8	14.3	3
		19 OLIGOCHAET	3655	0	1161	1605.3	1867.6	1078.2	3
		Grand Sum = 11911	Mean = 3970.3		Std.Dev. = 3892.0		Std.Err = 2247.3		

GEAR : ECKMAN

DATE	STA/SITE	TAXON	DENSITIES (#/0.09 m²) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
05/18/82	6/A	1 CAENIS	86	0	2322	802.7	1316.5	760.1	3
		1 EPHEMERA	344	258	387	329.7	65.7	37.9	3
		1 HEXAGENIA	43	172	86	100.3	65.7	37.9	3
		2 DECETIS	86	43	0	43.0	43.0	24.8	3
		2 POLYCENTRO	516	0	0	172.0	297.9	172.0	3
		4 AMTOCHA	43	0	0	14.3	24.8	14.3	3
		4 CERATOPOGO	516	172	0	229.3	262.7	151.7	3
		4 CLADOTANYT	0	1720	0	573.3	993.0	573.3	3
		4 CRICOTOPUS	1290	0	1720	1003.3	895.1	516.8	3
		4 CRYPTOCHIR	430	0	0	143.3	248.3	143.3	3
		4 DICROTENDI	903	0	0	301.0	521.3	301.0	3
		4 HEMERODROM	0	43	0	14.3	24.8	14.3	3
		4 MICROTENDI	0	0	86	28.7	49.7	28.7	3
		4 MONODIAMES	0	43	43	28.7	24.8	14.3	3
		4 PAGASTIELL	43	1720	0	587.7	980.9	566.3	3
		4 PARATANYTA	0	0	1290	430.0	744.8	430.0	3
		4 POLYPEDILU	172	0	430	200.7	216.4	125.0	3
		4 PROCLADIUS	860	0	0	286.7	496.5	286.7	3
		4 PSEUDOCHIR	0	129	0	43.0	74.5	43.0	3
		4 TANYTARSUS	860	0	2580	1146.7	1313.7	758.4	3
		4 XENOCHIRON	2666	0	1720	1462.0	1351.6	780.3	3
		9 SIGARA	0	0	43	14.3	24.8	14.3	3
		10 HYALELLA A	129	0	946	358.3	513.7	296.6	3
		15 HYDRACARIN	86	129	215	143.3	65.7	37.9	3
		16 AMNICOLA	43	43	0	28.7	24.8	14.3	3
		16 VALVATA TR	0	0	43	14.3	24.8	14.3	3
		17 PISIDIUM	0	43	0	14.3	24.8	14.3	3
		19 OLIGOCHAET	7525	4945	2279	4916.3	2627.1	1514.5	3
		Grand Sub = 40291	Mean = 1342.3	Std.Dev. = 1657.7			Std.Err = 217.5		
		1 CAENIS	43	43	172	86.0	226.8	130.9	3
		4 CRYPTOCHIR	430	43		157.3	248.3	143.3	3
		4 MICROPSECT		43		14.3	24.8	14.3	3
		4 PARATANYTA	86	43	43	57.3	24.8	14.3	3
		4 POLYPEDILU	0		43	286.7	496.5	286.7	3
		4 PSEUDOCHIR	43	43	430	172.0	223.4	129.0	3
		4 PSEUDOCHIR	0		43	14.3	24.8	14.3	3
		10 HYALELLA A		0	43	14.3	24.8	14.3	3
		15 HYDRACARIN			43	14.3	24.8	14.3	3
		16 AMNICOLA	43	0	0	14.3	24.8	14.3	3
		17 PISIDIUM	43	43		43.0	43.0	24.8	3
		19 OLIGOCHAET	774	344	43	387.0	378.1	218.3	3
		Grand Sub = 1333	Mean = 370.3	Std.Dev. = 1			Std.Err = 24.8		

GEAR : ECKMAN

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
05/26/82	2/A	1 CAENIS	0	1032	602	544.7	518.4	299.3	3
		2 POLYCENTRO	0	86	86	57.3	49.7	28.7	3
		4 CHIR. PUPA	86	43	129	86.0	43.0	24.8	3
		4 CRICOTOPUS	0	0	43	14.3	24.8	14.3	3
		4 CRYPTOCHIR	0	43	0	14.3	24.8	14.3	3
		4 DICROTENDI	0	645	2881	1175.3	1511.9	872.9	3
		4 LARSIA	0	0	86	28.7	49.7	28.7	3
		4 PARATANYTA	0	0	172	57.3	99.3	57.3	3
		4 PROCLADIUS	0	430	172	200.7	216.4	125.0	3
		4 STICTOCHIR	1591	301	731	874.3	656.8	379.2	3
		4 TANYTARSUS	0	430	0	143.3	248.3	143.3	3
		12 ASELLUS	0	430	43	157.7	236.8	136.7	3
		15 HYDRACARIN	0	43	0	14.3	24.8	14.3	3
		16 PROMENETUS	0	43	0	14.3	24.8	14.3	3
		17 SPHAER. SI	43	0	0	14.3	24.8	14.3	3
		19 OLIGOCHAET	43	0	43	28.7	24.8	14.3	3
		24 H.RUDINEA	0	0	129	43.0	74.5	43.0	3

Grand Sum = 10406 Mean = 2468.7 Std.Dev. = 1677.7 Std.Err = 968.6

GEAR : ECKMAN

DATE	STA/SITE		TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
05/26/82	3/A	1	UNIDENTIFI	0	430	0	143.3	248.3	143.3	3
		4	CERATOPOGO	430	0	86	172.0	227.5	131.4	3
		4	CLADOTANYT	1075	0	1247	774.0	675.8	390.2	3
		4	CLINOTANYP	43	43	43	43.0	0.0	0.0	3
		4	CRICOTOPUS	430	43	860	444.3	408.7	236.0	3
		4	CRYPTOCHIR	43	86	0	43.0	43.0	24.8	3
		4	DICROTENDI	0	43	43	28.7	24.8	14.3	3
		4	EMPIDIDAE	43	0	43	28.7	24.8	14.3	3
		4	ENDOCHIRON	129	0	0	43.0	74.5	43.0	3
		4	GLYPTOTEND	0	0	43	14.3	24.8	14.3	3
		4	LARSIA	430	43	1720	731.0	878.1	507.0	3
		4	PARACLADOP	86	0	0	28.7	49.7	28.7	3
		4	POLYPEDILU	2021	559	1376	1318.7	732.7	423.0	3
		4	PROCLADIUS	0	0	1290	430.0	744.8	430.0	3
		4	PSECTROCLA	430	0	0	215.0	215.0	124.1	3
		4	TANYTARSUS	2107	301	1978	1462.0	1007.5	581.7	3
		4	TRIBELOS	43	0	0	14.3	24.8	14.3	3
		13	HYALELLA A	0	86	0	28.7	49.7	28.7	3
		15	HYDRACARIN	1419	516	43	659.3	699.1	403.6	3
		16	AMNICOLA	86	0	43	43.0	43.0	24.8	3
		16	HELISOMA	172	0	0	57.3	99.3	57.3	3
		17	PISIDIUM	0	86	86	57.3	49.7	28.7	3
		17	SPHAERIUM	645	86	129	286.7	311.1	179.6	3
		19	OLIGOCHAET	1161	1075	5934	2723.3	2780.9	1605.5	3
		21	NEMATODA	2236	4300	11223	5919.7	4707.3	2717.8	3
		23	OSTRACODA	1720	0	4730	2150.0	2394.1	1382.3	3
		24	HIRUDINEA	0	43	43	28.7	24.8	14.3	3

Grand Sum = 53449 Mean = 17816.3 Std.Dev. = 11910.0 Std.Err = 6876.2

GEAR : ECKMAN

DATE	STA/SITE		TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
06/01/82	4/A	1	BAETISCA	0	43	0	14.3	24.8	14.3	3
		1	CAENIS	0	43	0	14.3	24.8	14.3	3
		2	OECETIS	43	0	0	14.3	24.8	14.3	3
		4	CERATOPOGO	430	0	0	143.3	248.3	143.3	3
		4	CHIR. PUPA	0	43	0	14.3	24.8	14.3	3
		4	CLADOTANYT	301	0	0	100.3	173.8	100.3	3
		4	CORYNONEUR	0	43	473	172.0	261.6	151.0	3
		4	CRICOTOPUS	0	43	0	14.3	24.8	14.3	3
		4	CRYPTOCHIR	129	43	0	57.3	65.7	37.9	3
		4	DICROTENDI	0	215	0	71.7	124.1	71.7	3
		4	EMPIDIDAE	43	0	43	28.7	24.8	14.3	3
		4	GLYPTOTEND	0	387	43	143.3	212.1	122.5	3
		4	LARSIA	430	430	430	430.0	0.0	0.0	3
		4	MICROSPECT	0	43	0	14.3	24.8	14.3	3
		4	POLYPEDILU	602	0	0	200.7	347.6	200.7	3
		4	PSEUDOCHIR	43	0	43	28.7	24.8	14.3	3
		4	TANYPUS	0	0	43	14.3	24.8	14.3	3
		12	LIRCEUS	0	43	0	14.3	24.8	14.3	3
		13	HYALELLA A	86	344	0	143.3	179.0	103.4	3
		17	SPHAERIUM	86	43	0	43.0	43.0	24.8	3
		19	OLIGOCHAET	473	1118	43	544.7	541.1	312.4	3
		21	NEMATODA	1333	903	860	1032.0	261.6	151.0	3
		23	OSTRACODA	860	430	473	587.7	236.8	136.7	3
		Grand Sum =		11524	Mean =	3841.3	Std.Dev. =	1246.5	Std.Err =	719.7
	4/B	3	COLEOPTERA	430	0	0	143.3	248.3	143.3	3
		4	CERATOPOGO	903	0	0	301.0	521.3	301.0	3
		4	CLADOTANYT	215	430	129	258.0	155.0	89.5	3
		4	CRICOTOPUS	430	0	473	301.0	261.6	151.0	3
		4	CRYPTOCHIR	43	43	0	28.7	24.8	14.3	3
		4	DICROTENDI	172	86	43	100.3	65.7	37.9	3
		4	LARSIA	0	0	516	172.0	297.9	172.0	3
		4	MONODIMES	43	0	0	14.3	24.8	14.3	3
		4	PARACHIRON	1032	0	0	344.0	595.9	344.0	3
		4	PARATANYTA	0	43	129	57.3	65.7	37.9	3
		4	POLYPEDILU	989	0	0	329.7	571.0	329.7	3
		9	SIALIS	430	0	0	143.3	248.3	143.3	3
		12	ASELLUS	0	0	43	14.3	24.8	14.3	3
		15	HYDRACARIN	0	0	43	14.3	24.8	14.3	3
		17	PISIDIUM N	129	0	43	57.3	65.7	37.9	3
		19	OLIGOCHAET	903	559	731	731.0	172.0	99.3	3
		Grand Sum =		9030	Mean =	3010.0	Std.Dev. =	2397.6	Std.Err =	1384.3

GEAR : ECKMAN

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
06/07/82	1/A	1 BAETIDAE	0	0	860	286.7	496.5	286.7	3
		1 CAENIS	430	0	0	143.3	248.3	143.3	3
		1 EPHEMERELL	0	0	43	14.3	24.8	14.3	3
		1 HEPTAGENII	430	0	0	143.3	248.3	143.3	3
		2 GRAMMOTAUL	0	0	43	14.3	24.8	14.3	3
		4 ABLABESMYI	860	0	0	286.7	496.5	286.7	3
		4 CRICOTOPUS	43	0	0	14.3	24.8	14.3	3
		4 CRYPTOCHIR	1763	0	43	602.0	1005.7	580.6	3
		4 DICROTENDI	1290	0	0	430.0	744.8	430.0	3
		4 ENDOCHIRON	0	516	559	358.3	311.1	179.6	3
		4 GLYPTOTEND	86	0	0	28.7	49.7	28.7	3
		4 LARSIA	0	86	0	28.7	49.7	28.7	3
		4 PARATANYTA	129	129	0	86.0	74.5	43.0	3
		4 POLYPEDILU	430	1677	430	845.7	720.0	415.7	3
		4 PROCLADIUS	0	0	430	143.3	248.3	143.3	3
		8 SIGARA	0	0	43	14.3	24.8	14.3	3
		12 ASELLUS	86	43	0	43.0	43.0	24.8	3
		13 HYALELLA A	0	0	129	43.0	74.5	43.0	3
		19 OLIGOCHAET	0	1505	3139	1548.0	1569.9	906.4	3

Grand Sum = 15222 Mean = 5074.0 Std.Dev. = 972.0 Std.Err = 561.2

GEAR : GERKING

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
05/17/82	7/A	1 CAENIS	640	0	0	213.3	369.5	213.3	3
		1 EPHEMERELL	0	0	20	6.7	11.5	6.7	3
		4 DICROTENDI	2000	0	1420	1140.0	1029.0	594.1	3
		4 LARSIA	0	200	200	133.3	115.5	66.7	3
		4 ORTHOCLADI	0	420	0	140.0	242.5	140.0	3
		4 PSECTROCLA	600	200	1200	666.7	503.3	290.6	3
		4 PSEUDOCHIR	0	20	0	6.7	11.5	6.7	3
		4 TANYTARSUS	1000	0	2000	1000.0	1000.0	577.4	3
		13 HYALELLA A	60	20	0	26.7	30.6	17.6	3
		15 HYDRACARIN	20	0	0	6.7	11.5	6.7	3
		16 FERRISSIA	0	0	120	40.0	69.3	40.0	3
		16 PHYSA	0	0	20	6.7	11.5	6.7	3
		19 OLIGOCHAET	200	0	2400	866.7	1331.7	768.8	3
		Grand Sum = 12760	Mean = 4253.3		Std.Dev. = 3268.2		Std.Err = 1886.9		
	7/G	1 CAENIS	20	0	0	6.7	11.5	6.7	3
		4 LARSIA	0	0	200	66.7	115.5	66.7	3
		4 ORTHOCLADI	0	200	1200	466.7	642.9	371.2	3
		4 PARATANYTA	0	0	200	66.7	115.5	66.7	3
		4 PSECTROCLA	400	400	0	266.7	230.9	133.3	3
		4 THIENEMANN	0	0	200	66.7	115.5	66.7	3
		5 ENALLAGMA	0	20	0	6.7	11.5	6.7	3
		16 FERRISSIA	20	0	0	6.7	11.5	6.7	3
		16 PHYSA	20	0	0	6.7	11.5	6.7	3
		19 OLIGOCHAET	400	200	0	200.0	200.0	115.5	3
		Grand Sum = 3480	Mean = 1160.0		Std.Dev. = 554.6		Std.Err = 320.1		

GEAR : GERKING

DATE	STA/SITE	TAXON	DENSITIES - # / SQ. M REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
05/18/82	5/A	1 CAENIS	0	20	0	6.7	11.5	6.7	3
		1 EPHEMEROPT	0	0	200	66.7	115.5	66.7	3
		1 LEPTOPHLEB	0	20	0	6.7	11.5	6.7	3
		2 MYSTACIDES	0	0	20	6.7	11.5	6.7	3
		4 CHIR. PUPA	0	0	20	6.7	11.5	6.7	3
		4 CRICOTOPUS	0	400	0	133.3	230.9	133.3	3
		4 CRYPTOCHIR	0	20	0	6.7	11.5	6.7	3
		4 DICROTENDI	0	0	400	133.3	230.9	133.3	3
		4 LARSIA	420	0	200	206.7	214.4	82.9	3
		4 PARATANYTA	0	200	200	133.3	115.5	66.7	3
		4 POLYPEDILU	0	200	200	133.3	115.5	66.7	3
		4 PROCLADIUS	0	20	0	6.7	11.5	6.7	3
		4 PSECTROCLA	2260	1120	220	1200	1056.5	609.4	3
		4 TANYTARSUS	220	0	0	73.3	127.0	73.3	3
		8 CORIXIDAE	20	0	0	6.7	11.5	6.7	3
		8 SIGARA	0	220	220	146.7	127.0	73.3	3
		10 HYALELLA A	40	0	0	13.3	23.1	13.3	3
		10 HYDRACARIN	20	40	0	20	20	11.5	3
		10 OLIGOCHAET	1820	5140	740	2566.7	2435.2	1406.1	3
		10 OSTRACODA	60	0	0	20	34.6	20	3

Graph Sub	Taxon	Rep1	Rep2	Rep3	Mean	N
5 5	CAENIS	0	40	0	13.3	3
	EPHEMEROPT					
	CHIR. PUPA					
	[illegible]					
	CRICOTOPUS					
	[illegible]					
	[illegible]					
	[illegible]					
	[illegible]					
	[illegible]					
	[illegible]					
	[illegible]					
	[illegible]					
	[illegible]					
	[illegible]					
	[illegible]					

SEAR SEARINGS

DATE	STA	SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
[illegible]			BAETIS	40	0	680	240.0	381.6	220.3	3
			CAENIS	0	0	40	13.3	23.1	13.3	3
			CERATOPSOC	0	0	200	66.7	115.5	66.7	3
			CHIR. PUPA	0	280	400	226.7	205.3	118.5	3
			CRICOTOPUS	0	80	400	160.0	211.7	122.2	3
			DICROTENDI	200	1240	0	480.0	665.7	384.4	3
			HETEROTRIS	0	40	0	13.3	23.1	13.3	3
			LARSIA	220	600	800	540.0	294.6	170.1	3
			ORTHOCLADI	0	740	0	246.7	427.2	246.7	3
			PSEUDOCLA	4500	2060	15540	7366.7	7182.7	4146.9	3
			TANYTARSUS	0	240	1600	613.3	862.9	498.2	3
			THIENEMANN	0	0	1400	466.7	808.3	466.7	3
			ISOPERLA	0	0	20	6.7	11.5	6.7	3
			CORIXIDAE	0	540	0	180.0	311.8	180.0	3
			SIGARA	140	0	240	126.7	120.6	69.6	3
			[illegible]	20	0	0	6.7	11.5	6.7	3
			[illegible]	0	20	20	13.3	11.5	6.7	3
			[illegible]	0	20	0	6.7	11.5	6.7	3
			[illegible]	800	1400	1000	1000.0	400.0	230.9	3
[illegible]			[illegible]	Mean = 11773.3			Std.Dev. = 9183.3		Std.Err = 5302.0	
			[illegible]	320	40	820	520.0	420.0	242.5	3
			[illegible]	20	0	0	6.7	11.5	6.7	3
			[illegible]	0	600	0	200.0	346.4	200.0	3
			[illegible]	420	0	200	540.0	768.6	443.8	3
			[illegible]	0	200	0	66.7	115.5	66.7	3
			[illegible]	800	400	2000	1000.0	871.8	503.3	3
			[illegible]	600	0	0	200.0	346.4	200.0	3
			[illegible]	40	9840	55100	25186.7	25924.3	14967.4	3
			[illegible]		400	1000	466.7	503.3	290.6	3
			[illegible]			20	6.7	11.5	6.7	3
			[illegible]	60	80	[illegible]	86.7	90.2	52.1	3
			[illegible]		[illegible]	20	6.7	11.5	6.7	3
			[illegible]	[illegible]	40	[illegible]	13.3	23.1	13.3	3
			[illegible]	40	[illegible]	20	26.7	11.5	6.7	3
			[illegible]	600	880	[illegible]	1360.0	461.3	266.3	3
[illegible]			[illegible]	Mean = [illegible]			Std.Dev. = 26520.1		Std.Err = 15484.6	

GEAR : GERKING

DATE	STA/SITE	TAXON	DENSITIES # REP1	REP2	EQ. # REP3	MEAN	Std Dev.	Std Err	#
05/25/92	2/A	1 CAENIS	660	420	1600	893.3	527.1	304.3	3
		1 HEXAGENIA	20	0	0	6.7	11.5	6.7	3
		2 MYSTACIDES	0	0	60	20.0	34.6	20.0	3
		2 NECTOPSYCH	20	0	40	20.0	20.0	11.5	3
		2 POLYCENTRO	40	140	20	66.7	64.7	37.3	3
		2 TRIAENODES	0	20	0	6.7	11.5	6.7	3
		3 BRYCHIUS	0	0	20	6.7	11.5	6.7	3
		3 COLEOPTERA	0	200	0	66.7	115.5	66.7	3
		3 HALIPLUS	0	20	0	6.7	11.5	6.7	3
		4 ABLABESMYI	0	0	20	6.7	11.5	6.7	3
		4 CARDIOCLAD	20	0	0	6.7	11.5	6.7	3
		4 CERATOPOGO	160	400	0	186.7	201.3	116.2	3
		4 CHIR. PUPA	20	0	0	6.7	11.5	6.7	3
		4 CORYNONEUR	0	0	20	6.7	11.5	6.7	3
		4 CRICOTOPUS	0	20	0	6.7	11.5	6.7	3
		4 CRYPTOCHIR	0	0	20	6.7	11.5	6.7	3
		4 DICROTENDI	0	100	280	126.7	141.9	81.9	3
		4 ENDOCHIRON	380	0	0	126.7	219.4	126.7	3
		4 LARSIA	40	540	40	206.7	288.7	166.7	3
		4 PARATANYTA	40	700	0	246.7	393.1	227.0	3
		4 POLYPEDILU	0	460	0	153.3	265.6	153.3	3
		4 PROCLADIUS	380	800	620	600.0	210.7	121.7	3
		4 STICTOCHIR	180	180	40	133.3	80.8	46.7	3
		4 STRATOMYII	0	20	0	6.7	11.5	6.7	3
		4 TANYTARSUS	140	420	100	220.0	174.4	100.7	3
		5 AESHNIDAE	0	0	20	6.7	11.5	6.7	3
		8 CORIXIDAE	0	20	0	6.7	11.5	6.7	3
		12 ASELLUS	40	300	1280	540.0	653.9	377.5	3
		13 HYALELLA A	180	60	20	86.7	83.3	48.1	3
		15 HYDRACARIN	60	20	20	33.3	23.1	13.3	3
		16 AMNICOLA M	0	0	40	13.3	23.1	13.3	3
		16 PROMENETUS	20	0	20	13.3	11.5	6.7	3
		17 PISIDIUM N	0	0	40	13.3	23.1	13.3	3
		17 SPHAERIUM	0	20	0	6.7	11.5	6.7	3
		19 OLIGOCHAET	1120	440	220	593.3	469.2	270.9	3
		24 HIRUDINEA	160	40	0	66.7	83.3	48.1	3

Grand Sum = 13560 Mean = 4520.0 Std.Dev. = 830.2 Std.Err = 479.3

4	[illegible]					[illegible]	[illegible]
4	[illegible]					[illegible]	[illegible]
4	[illegible]					[illegible]	[illegible]
4	[illegible]					[illegible]	[illegible]
4	[illegible]					[illegible]	[illegible]
4	[illegible]					[illegible]	[illegible]
4	[illegible]					[illegible]	[illegible]
4	EMPIDIDAE					11.5	6.7
4	GLYPTOTENO					34.5	20.1
4	LARSIA					195.5	176.4
4	PARATHAMYTA					23.1	13.3
4	POLYPEDILU					11.5	6.7
4	PSECTROCLA					39.8	17.8
4	TANYTARSUS					241.9	139.7
8	TRICHOCORI					11.5	6.7
13	HYALELLA A					11.5	6.7
15	HYDRACARIN					23.0	11.5
16	AMNICOLA					11.5	6.7
16	HELISOMA					11.5	6.7
17	PISIDIUM					11.5	6.7
19	OLIGOCHAET					250.1	144.4
21	NEMATODA					346.4	200.0
23	OSTRACODA					200.3	115.7

Grand Sum = 5240 Mean = [illegible] Std.Dev. = 1209.5 Std.Err = 698.3

DATE	STATION	DENSITIES REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
6	1 BAETIS	0	0	20	6.7	11.5	6.7	3
	1 CAENIS	0	0	40	13.3	23.1	13.3	3
	1 DECETIS	0	20	20	13.3	11.5	6.7	3
	1 PHYLOCENTR	0	0	40	13.3	23.1	13.3	3
	1 POLYCENTRO	0	20	0	6.7	11.5	6.7	3
	3 DONACIA	0	0	40	13.3	23.1	13.3	3
	3 GYRINUS	0	20	0	6.7	11.5	6.7	3
	4 CERA. PUPA	0	600	0	200.0	346.4	200.0	3
	4 CERATOPOGO	0	0	20	6.7	11.5	6.7	3
	4 CHIR. PUPA	0	20	20	13.3	11.5	6.7	3
	4 CORYNONEUR	200	0	6540	2246.7	3719.5	2147.4	3
	4 DICROTENDI	100	0	320	140.0	163.7	94.5	3
	4 EMPIDIDAE	0	20	0	6.7	11.5	6.7	3
	4 GLYPTOTEND	140	540	1100	593.3	482.2	278.4	3
	4 LARSIA	20	20	220	86.7	115.5	66.7	3
	4 MICROSPECT	0	20	280	100.0	156.2	90.2	3
	4 POLYPEDILU	0	0	300	100.0	173.2	100.0	3
	4 PROCLADIUS	0	0	60	20.0	34.6	20.0	3
	4 TRIBELOS	20	0	0	6.7	11.5	6.7	3
	4 UNIDENTIFI	0	20	0	6.7	11.5	6.7	3
	5 EPICORDULI	0	0	20	6.7	11.5	6.7	3
	5 LESTES	0	0	40	13.3	23.1	13.3	3
	12 ASELLUS	0	20	100	40.0	52.9	30.6	3
	12 UNIDENTIFI	0	0	200	66.7	115.5	66.7	3
	13 HYALELLA A	20	180	0	66.7	98.7	57.0	3
	15 HYDRACARIN	20	0	20	13.3	11.5	6.7	3
	19 OLIGOCHAET	0	800	1980	926.7	996.1	575.1	3
	21 NEMATODA	200	0	220	140.0	121.7	70.2	3
	23 OSTRACODA	200	200	600	333.3	230.9	133.3	3
	Grand Sum = 15620	Mean = 5206.7		Std.Dev. = 6107.7		Std.Err = 3526.3		
4/6	1 BAETIDAE	0	0	200	66.7	115.5	66.7	3
	1 BAETISCA	0	0	20	6.7	11.5	6.7	3
	1 CAENIS	20	20	40	26.7	11.5	6.7	3
	3 GYRINUS	0	0	20	6.7	11.5	6.7	3
	3 HALIPLUS	0	0	20	6.7	11.5	6.7	3
	4 DICROTENDI	20	0	0	6.7	11.5	6.7	3
	4 PARATANYTA	0	220	20	80.0	121.7	70.2	3
	4 POLYPEDILU	0	420	60	160.0	227.2	131.1	3
	5 ENALLAGMA	20	0	0	6.7	11.5	6.7	3
	12 LIRCEUS	20	0	20	13.3	11.5	6.7	3
	15 HYDRACARIN	0	20	0	6.7	11.5	6.7	3
	19 OLIGOCHAET	200	20	40	86.7	98.7	57.0	3
	Grand Sum = 1420	Mean = 473.3		Std.Dev. = 212.0		Std.Err = 122.4		

GEAR : SERBING

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
06/07/82	1 A	1 BAETIDAE	0	740	0	246.7	427.2	246.7	3
		1 CAENIS	0	0	20	6.7	11.5	6.7	3
		2 POLYCENTRO	0	20	0	6.7	11.5	6.7	3
		4 ABLABESMYI	0	40	20	20.0	20.0	11.5	3
		4 CERATOPOGO	20	0	80	33.3	41.6	24.0	3
		4 DICROTENDI	200	380	280	286.7	90.2	52.1	3
		4 PHAENOSPEC	0	0	200	66.7	115.5	66.7	3
		4 PROCLADIUS	0	20	0	6.7	11.5	6.7	3
		4 PSEUDOCHIR	0	400	0	133.3	230.9	133.3	3
		4 THIENEMANN	0	0	400	133.3	230.9	133.3	3
		8 CORIXIDAE	40	0	0	13.3	23.1	13.3	3
		8 SIGARA	0	40	0	13.3	23.1	13.3	3
		12 ASELLUS	0	540	0	180.0	311.8	180.0	3
		13 HYALELLA A	0	40	0	13.3	23.1	13.3	3
		16 GASTROPODA	0	20	0	6.7	11.5	6.7	3
		19 OLIGOCHAET	0	1260	1020	760.0	669.0	386.3	3

Grand Sum = 5780 Mean = 1926.7 Std.Dev. = 1622.0 Std.Err = 936.5

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/18/82	2/B	1 EPHEMERA	84	294	63	147.0	127.7	73.7	3
		1 HEXAGENIA	168	420	0	196.0	211.4	122.0	3
		2 OXYETHIRA	0	0	21	7.0	12.1	7.0	3
		4 CERATOPOGO	0	21	210	77.0	115.7	66.8	3
		4 CRICOTOPUS	0	210	420	210.0	210.0	121.2	3
		4 CRYPTOCHIR	0	252	0	84.0	145.5	84.0	3
		4 EPOICOCLAD	0	630	0	210.0	363.7	210.0	3
		4 LARSIA	0	210	0	70.0	121.2	70.0	3
		4 PARACHIRON	210	0	0	70.0	121.2	70.0	3
		4 PARATANYTA	420	210	1386	672.0	627.2	362.1	3
		4 PROCLADIUS	0	210	0	70.0	121.2	70.0	3
		4 STICTOCHIR	42	0	0	14.0	24.2	14.0	3
		12 ASELLUS	0	0	21	7.0	12.1	7.0	3
		12 LIRCEUS	0	63	21	28.0	32.1	18.5	3
		13 GAMMARUS	0	168	210	126.0	111.1	64.2	3
		13 HYALELLA A	483	336	105	308.0	190.5	110.0	3
		15 HYDRACARIN	0	105	0	35.0	60.6	35.0	3
		16 PHYSA	0	0	21	7.0	12.1	7.0	3
		17 SPHAERIUM	42	231	42	105.0	109.1	63.0	3
		19 OLIGOCHAET	882	3276	903	1687.0	1376.2	794.5	3
		20 TURBELLARI	0	0	21	7.0	12.1	7.0	3
		27 POLYCHAETA	0	1890	210	700.0	1035.9	598.1	3
		Grand Sum = 14511	Mean = 4837.0		Std.Dev. = 3262.5		Std.Err = 1883.6		
	2/C	1 CAENIS	210	0	0	70.0	121.2	70.0	3
		1 EPHEMERA	168	42	126	112.0	64.2	37.0	3
		1 EPHEMERELL	0	0	21	7.0	12.1	7.0	3
		1 HEXAGENIA	84	21	399	168.0	202.5	116.9	3
		2 AGRYPNIA	21	0	0	7.0	12.1	7.0	3
		2 LEPIDOSTOM	168	42	42	84.0	72.7	42.0	3
		2 NYSTACIDES	252	42	21	105.0	127.7	73.7	3
		2 OECETIS	21	0	0	7.0	12.1	7.0	3
		2 POLYCENTRO	63	42	252	119.0	115.7	66.8	3
		2 TRIAENODES	0	0	126	42.0	72.7	42.0	3
		4 ABLABESMYI	0	0	42	14.0	24.2	14.0	3
		4 CERATOPOGO	42	0	252	98.0	135.0	77.9	3
		4 CRYPTOCHIR	483	231	651	455.0	211.4	122.0	3
		4 DICROTENDI	63	21	42	42.0	21.0	12.1	3
		4 EPOICOCLAD	63	0	42	35.0	32.1	18.5	3
		4 LARSIA	1743	840	5880	2821.0	2687.4	1551.6	3
		4 MONODIAMES	231	0	0	77.0	133.4	77.0	3
		4 PARATANYTA	210	0	0	70.0	121.2	70.0	3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/18/82	2/C	4 POLYPEDILU	42	1071	2730	1281.0	1356.2	783.0	3
		4 POTTHASTIA	0	210	210	140.0	121.2	70.0	3
		4 PROCLADIUS	63	105	210	126.0	75.7	43.7	3
		4 PSEUDOCHIR	147	0	0	49.0	84.9	49.0	3
		12 ASELLUS	0	0	63	21.0	36.4	21.0	3
		12 LIRCEUS	357	441	777	525.0	222.2	128.3	3
		13 GAMMARUS	0	0	294	98.0	169.7	98.0	3
		13 HYALELLA A	1176	630	1260	1022.0	342.1	197.5	3
		15 HYDRACARIN	189	84	42	105.0	75.7	43.7	3
		16 AMNICOLA	0	21	42	21.0	21.0	12.1	3
		16 HELISOMA	21	63	0	28.0	32.1	18.5	3
		16 PHYSA	21	0	21	14.0	12.1	7.0	3
		17 PISIDIUM	0	63	0	21.0	36.4	21.0	3
		17 SPHAERIUM	21	0	0	7.0	12.1	7.0	3
		19 OLIGOCHAET	4578	1344	1932	2618.0	1722.7	994.6	3
		20 TURBELLARI	0	0	21	7.0	12.1	7.0	3
		27 POLYCHAETA	0	210	210	140.0	121.2	70.0	3
		Grand Sum = 31668	Mean = 10556.0		Std.Dev. = 5093.5		Std.Err = 2940.8		
	2/D	1 BAETISCA	0	0	21	7.0	12.1	7.0	3
		4 LARSIA	0	0	420	140.0	242.5	140.0	3
		4 PARATANYTA	21	0	0	7.0	12.1	7.0	3
		4 PROCLADIUS	0	0	21	7.0	12.1	7.0	3
		12 LIRCEUS	0	21	0	7.0	12.1	7.0	3
		13 HYALELLA A	21	21	0	14.0	12.1	7.0	3
		15 HYDRACARIN	21	0	0	7.0	12.1	7.0	3
		16 AMNICOLA M	21	0	0	7.0	12.1	7.0	3
		17 PISIDIUM M	21	0	0	7.0	12.1	7.0	3
		19 OLIGOCHAET	63	0	210	91.0	107.8	62.2	3
		21 NEMATODA	0	0	210	70.0	121.2	70.0	3
		23 OSTRACODA	210	210	0	140.0	121.2	70.0	3
		Grand Sum = 1512	Mean = 504.0		Std.Dev. = 333.4		Std.Err = 192.5		
	2/E	1 EPHEMERA	630	63	63	252.0	327.4	189.0	3
		1 HEXAGENIA	483	0	0	161.0	278.9	161.0	3
		2 LEPIDOSTOM	21	0	21	14.0	12.1	7.0	3
		2 MYSTACIDES	0	0	21	7.0	12.1	7.0	3
		2 PHRYGANEA	21	0	0	7.0	12.1	7.0	3
		2 POLYCENTRO	21	21	0	14.0	12.1	7.0	3
		4 CERATOPOGO	42	0	42	28.0	24.2	14.0	3
		4 CRYPTOCHIR	651	0	1050	567.0	530.0	306.0	3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/18/82	2/E	4 EPOICOCLAD	21	0	210	77.0	115.7	66.8	3
		4 LARSIA	210	420	651	427.0	220.6	127.4	3
		4 MONODIAMES	0	0	252	84.0	145.5	84.0	3
		4 PARATANYTA	0	630	0	210.0	363.7	210.0	3
		4 POLYPEDILU	630	21	1743	798.0	873.2	504.1	3
		4 PROCLADIUS	651	21	21	231.0	363.7	210.0	3
		4 PSECTROCLA	0	0	1050	350.0	606.2	350.0	3
		4 PSEUDOCHIR	0	0	21	7.0	12.1	7.0	3
		4 STICTOCHIR	420	21	0	147.0	236.7	136.6	3
		12 LIRCEUS	168	0	0	56.0	97.0	56.0	3
		13 HYALELLA A	1218	21	63	434.0	679.3	392.2	3
		15 HYDRACARIN	63	0	231	98.0	119.4	68.9	3
		16 AMNICOLA	0	0	294	98.0	169.7	98.0	3
		16 LYMNAEA	0	0	21	7.0	12.1	7.0	3
		16 VALVATA	0	0	42	14.0	24.2	14.0	3
		17 PISIDIUM	0	0	63	21.0	36.4	21.0	3
		17 SPHAERIUM	105	0	0	35.0	60.6	35.0	3
		19 OLIGOCHAET	4809	1134	3570	3171.0	1869.7	1079.5	3
		Grand Sum = 21945	Mean = 7315.0		Std.Dev. = 4313.8		Std.Err = 2490.6		
	2/F	1 EPHEMERA	0	21	42	21.0	21.0	12.1	3
		1 HEXAGENIA	21	0	21	14.0	12.1	7.0	3
		2 HYDROPSYCH	0	21	21	14.0	12.1	7.0	3
		2 LEPIDOSTOM	21	0	21	14.0	12.1	7.0	3
		2 MOLANNA	21	0	0	7.0	12.1	7.0	3
		2 MYSTACIDES	42	0	0	14.0	24.2	14.0	3
		2 OECETIS	21	0	0	7.0	12.1	7.0	3
		4 ABLABESMYI	0	0	504	168.0	291.0	168.0	3
		4 CERATOPOGO	21	0	0	7.0	12.1	7.0	3
		4 CRICOTOPUS	0	840	0	280.0	485.0	280.0	3
		4 CRYPTOCHIR	84	126	315	175.0	123.0	71.0	3
		4 DICROTENDI	189	0	84	91.0	94.7	54.7	3
		4 EPOICOCLAD	21	0	0	7.0	12.1	7.0	3
		4 LARSIA	1701	1050	0	917.0	858.3	495.5	3
		4 MICROTENDI	0	21	0	7.0	12.1	7.0	3
		4 MONODIAMES	231	126	21	126.0	105.0	60.6	3
		4 PARATANYTA	5019	399	273	1897.0	2704.5	1561.4	3
		4 POLYPEDILU	3633	525	0	1386.0	1963.6	1133.7	3
		4 POTTHASTIA	1260	0	21	427.0	721.5	416.5	3
		4 PROCLADIUS	42	0	0	14.0	24.2	14.0	3
		4 PSEUDOCHIR	0	21	21	14.0	12.1	7.0	3
		13 GAMMARUS	21	0	21	14.0	12.1	7.0	3

[illegible] : PONAR

DATE	STA	SITE	TAXON	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	13 HYALELLA A	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]
			15 HYDRACARIN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
			16 AMNICOLA	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
			16 AMNICOLA A	861	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
			16 FOSSARIA	42		[illegible]	[illegible]	[illegible]	[illegible]	
			16 GYRAULUS	42	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
			16 PHYSA	21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
			16 PLEUROCERA	[illegible]	[illegible]	21	[illegible]	[illegible]	[illegible]	3
			17 PISIDIUM	0	[illegible]	0	56.0	[illegible]	[illegible]	3
			17 SPHAERIUM	42	84	0	42.0	[illegible]	[illegible]	3
			19 OLIGOCHAET	2961	[illegible]	2289	2618.0	[illegible]	[illegible]	3
			24 PISCICOLID	21	0	0	7.0	[illegible]	[illegible]	3

Grand Sum = [illegible] Mean = [illegible] Std.Dev. = [illegible]

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/22/82	7/B	1 BRACHYCERC	21	0	0	7.0	12.1	7.0	3
		1 CAENIS	42	21	0	21.0	21.0	12.1	3
		1 EPHEMERA	0	21	21	14.0	12.1	7.0	3
		1 HEXAGENIA	84	189	42	105.0	75.7	43.7	3
		2 OECETIS	63	0	42	35.0	32.1	18.5	3
		4 ABLABESMYI	21	63	0	28.0	32.1	18.5	3
		4 CERATOPOGO	147	42	147	112.0	60.6	35.0	3
		4 CRYPTOCHIR	105	231	882	406.0	417.0	240.8	3
		4 EPOICOCLAD	0	42	0	14.0	24.2	14.0	3
		4 LARSIA	0	210	0	70.0	121.2	70.0	3
		4 MONODIAMES	0	0	21	7.0	12.1	7.0	3
		4 POLYPEDILU	861	1680	3003	1848.0	1080.8	624.0	3
		4 POTTHASTIA	273	0	84	119.0	139.8	80.7	3
		4 PROCLADIUS	42	840	210	364.0	420.7	242.9	3
		4 STEMPELLIN	861	0	0	287.0	497.1	287.0	3
		4 STICTOCHIR	84	210	21	105.0	96.2	55.6	3
		4 TANYTARSUS	294	63	735	364.0	341.4	197.1	3
		8 CORIXIDAE	21	0	0	7.0	12.1	7.0	3
		9 SIALIS	42	0	0	14.0	24.2	14.0	3
		13 HYALELLA A	21	21	84	42.0	36.4	21.0	3
		15 HYDRACARIN	42	105	147	98.0	52.8	30.5	3
		16 AMNICOLA	63	0	21	28.0	32.1	18.5	3
		16 CAMPELOMA	0	63	21	28.0	32.1	18.5	3
		16 GYRAULUS	21	21	21	21.0	0.0	0.0	3
		16 HELISOMA	21	21	0	14.0	12.1	7.0	3
		16 PHYSA	21	0	0	7.0	12.1	7.0	3
		16 VALVATA	0	21	0	7.0	12.1	7.0	3
		17 PISIDIUM	420	273	168	287.0	126.6	73.1	3
		17 SPHAERIUM	399	0	420	273.0	236.7	136.6	3
		19 OLIGOCHAET	6048	6027	3297	5124.0	1582.3	913.5	3
		Grand Sum = 29568	Mean = 9856.0		Std.Dev. = 412.8		Std.Err = 238.3		
	7/C	1 HEXAGENIA	336	231	504	357.0	137.7	79.5	3
		4 CERATOPOGO	21	0	21	14.0	12.1	7.0	3
		4 CRYPTOCHIR	672	42	21	245.0	369.9	213.6	3
		4 EPOICOCLAD	0	0	21	7.0	12.1	7.0	3
		4 LARSIA	0	420	504	308.0	270.0	155.9	3
		4 POLYPEDILU	0	525	420	315.0	277.8	160.4	3
		4 PROCLADIUS	210	231	21	154.0	115.7	66.8	3
		4 STICTOCHIR	0	21	231	84.0	127.7	73.7	3
		9 SIALIS	0	0	21	7.0	12.1	7.0	3
		13 GAMMARUS	0	21	0	7.0	12.1	7.0	3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/22/82	7/C	13 HYALELLA A	0	0	42	14.0	24.2	14.0	3
		13 PONTOPOREI	126	210	168	168.0	42.0	24.2	3
		15 HYDRACARIN	0	84	42	42.0	42.0	24.2	3
		17 PISIDIUM	0	42	105	49.0	52.8	30.5	3
		17 SPHAER. SE	21	0	0	7.0	12.1	7.0	3
		17 SPHAER. ST	21	0	0	7.0	12.1	7.0	3
		17 SPHAERIDAE	0	105	0	35.0	60.6	35.0	3
		17 SPHAERIUM	0	0	42	14.0	24.2	14.0	3
		19 OLIGOCHAET	1260	1071	483	938.0	405.2	234.0	3
		27 POLYCHAETA	0	420	0	140.0	242.5	140.0	3
		Grand Sum = 8736	Mean = 2912.0		Std.Dev. = 442.7		Std.Err = 255.6		
	7/D	1 HEXAGENIA	0	0	210	70.0	121.2	70.0	3
		4 CRYPTOCHIR	210	1050	231	497.0	479.0	276.6	3
		4 LARSIA	210	21	210	147.0	109.1	63.0	3
		4 POLYPEDILU	0	0	21	7.0	12.1	7.0	3
		4 PROCLADIUS	0	0	42	14.0	24.2	14.0	3
		12 ASELLUS	0	0	21	7.0	12.1	7.0	3
		13 HYALELLA A	0	0	21	7.0	12.1	7.0	3
		17 PISIDIUM	21	0	0	7.0	12.1	7.0	3
		17 SPHAER. RH	0	0	84	28.0	48.5	28.0	3
		17 SPHAER. ST	0	0	63	21.0	36.4	21.0	3
		17 SPHAERIUM	84	189	0	91.0	94.7	54.7	3
		19 OLIGOCHAET	63	630	1155	616.0	546.1	315.3	3
		27 POLYCHAETA	0	0	210	70.0	121.2	70.0	3
		Grand Sum = 4746	Mean = 1582.0		Std.Dev. = 881.3		Std.Err = 508.8		
	7/E	1 HEXAGENIA	294	84	42	140.0	135.0	77.9	3
		4 CRYPTOCHIR	0	21	0	7.0	12.1	7.0	3
		4 LARSIA	210	231	0	147.0	127.7	73.7	3
		4 POLYPEDILU	231	0	0	77.0	133.4	77.0	3
		4 PROCLADIUS	210	0	0	70.0	121.2	70.0	3
		13 HYALELLA A	21	0	0	7.0	12.1	7.0	3
		13 PONTOPOREI	21	63	168	84.0	75.7	43.7	3
		15 HYDRACARIN	0	0	42	14.0	24.2	14.0	3
		17 SPHAER. ST	0	21	0	7.0	12.1	7.0	3
		19 OLIGOCHAET	987	441	1113	847.0	357.2	206.2	3
		24 HIRUDINEA	0	210	0	70.0	121.2	70.0	3
		Grand Sum = 4410	Mean = 1470.0		Std.Dev. = 460.6		Std.Err = 265.9		
	7/F	1 HEXAGENIA	1239	1638	1449	1442.0	199.6	115.2	3

GEAR : PONAR

DATE	STA	SITE	TAXON	DENSITY			MEAN	Std.Dev.	Std.Err.	N
10 22 82	[illegible]		2 [illegible]	[illegible]	[illegible]	0	[illegible]	[illegible]	[illegible]	3
			[illegible]	21	0	21	14.0	12.1	7.0	3
			4 [illegible]	84	[illegible]	[illegible]	70.0	[illegible]	25.2	3
			4 CHIRONOMUS	[illegible]		42	14.0	24.2	14.0	3
			4 CRYPTOCHIR	[illegible]	[illegible]	0	448.0	431.6	249.1	3
			4 CRYPTOCLAD	[illegible]		4coz	1974.0	2411.6	1392.1	3
			4 DICROTENDI	0	0	210	70.0	121.2	70.0	3
			4 EPOICOCLAD	0	252	0	84.0	145.5	84.0	3
			4 HETEROTRIS	0	3570	0	1190.0	2061.1	1190.0	3
			4 LAPSIA	[illegible]	4452	1932	2485.0	1757.0	1014.4	3
			4 POLYPEDI	[illegible]	147	1512	728.0	847.9	489.5	3
			4 POTTHASTIA	0	21	21	14.0	12.1	7.0	3
			4 PROCLADIUS	1932	4473	3234	3213.0	1270.6	733.6	3
			4 STICTOCHIR	105	21	189	105.0	84.0	48.5	3
			4 TANYTARSUS	378	273	861	504.0	313.6	181.1	3
			15 HYDRACARIN	84	105	0	63.0	55.6	32.1	3
			16 CAMPELOMA	0	0	21	7.0	12.1	7.0	3
			16 VALVATA TR	0	21	0	7.0	12.1	7.0	3
			17 LAMP RAD S	0	21	0	7.0	12.1	7.0	3
			17 PELECYPODA	0	0	357	119.0	206.1	119.0	3
			17 PISIDIUM	21	0	0	7.0	12.1	7.0	3
			19 OLIGOCHAET	3360	2898	3192	3150.0	233.8	135.0	3

Grand Sum = 47166 Mean = 15722.0 Std.Dev. = 4295.3 Std.Err = 2479.9

YEAR : PCNAR

DATE	STA/SITE	TAXON	DENSITIES REP1	REP2	REP3	MEAN	Std Dev	Std Err	N
10/23/82	6/B	1 EPHEMERA	42	84	0	63.0	29.7	21.0	2
		1 HEXAGENIA	210	0	0	105.0	148.5	105.0	2
		4 ANTHOMYIID	21	0	0	10.5	14.8	10.5	2
		4 CERATOPOGO	126	273	0	199.5	103.9	73.5	2
		4 CRICOTOPUS	210	1260	0	735.0	742.5	525.0	2
		4 CRYPTOCHIR	231	63	0	147.0	118.8	84.0	2
		4 CRYPTOCLAD	630	630	0	630.0	0.0	0.0	2
		4 LARSIA	840	420	0	630.0	297.0	210.0	2
		4 MONODIAMES	63	0	0	31.5	44.5	31.5	2
		4 PARATANYTA	210	714	0	462.0	356.4	252.0	2
		4 POLYPEDILU	273	483	0	378.0	148.5	105.0	2
		4 POTTHASTIA	42	21	0	31.5	14.8	10.5	2
		4 PROCLADIUS	0	21	0	10.5	14.8	10.5	2
		4 STICTOCHIR	42	231	0	136.5	133.6	94.5	2
		12 ASELLUS	21	0	0	10.5	14.8	10.5	2
		13 HYALELLA A	798	525	0	661.5	193.0	136.5	2
		15 HYDRACARIN	0	21	0	10.5	14.8	10.5	2
		16 AMNICOLA	0	147	0	73.5	103.9	73.5	2
		17 ELLIPTIO C	21	0	0	10.5	14.8	10.5	2
		17 PISIDIUM	0	21	0	10.5	14.8	10.5	2
		17 SPHAERIDAE	0	210	0	105.0	148.5	105.0	2
		17 SPHAERIUM	0	21	0	10.5	14.8	10.5	2
		19 OLIGOCHAET	4914	7413	0	6163.5	1767.1	1249.5	2
		27 POLYCHAETA	420	630	0	525.0	148.5	105.0	2
		Grand Sum = 22302	Mean = 11151.0			Std.Dev. = 2880.8		Std.Err = 2037.0	
	6/C	1 EPHEMERA	0	105	0	52.5	74.2	52.5	2
		1 HEXAGENIA	0	210	147	178.5	44.5	31.5	2
		4 CRYPTOCHIR	0	252	210	231.0	29.7	21.0	2
		4 CRYPTOCLAD	0	210	210	210.0	0.0	0.0	2
		4 LARSIA	0	0	21	10.5	14.8	10.5	2
		4 MONODIAMES	0	0	210	105.0	148.5	105.0	2
		4 PROCLADIUS	0	0	420	210.0	297.0	210.0	2
		4 RHEOTANYTA	0	0	420	210.0	297.0	210.0	2
		4 STICTOCHIR	0	21	630	325.5	430.6	304.5	2
		13 HYALELLA A	0	0	420	210.0	297.0	210.0	2
		13 PONTOPOREI	0	126	63	94.5	44.5	31.5	2
		17 SPHAERIUM	0	21	21	21.0	0.0	0.0	2
		19 OLIGOCHAET	0	882	3822	2352.0	2078.9	1470.0	2
		27 POLYCHAETA	0	630	0	315.0	445.5	315.0	2
		Grand Sum = 9051	Mean = 4525.5			Std.Dev. = 2925.3		Std.Err = 2068.5	

	1	HEXAGENIA						
	1	DECETIS						
	4	CERATOPOGO						
	4	CHIRONOMUS						
	4	CRYPTOCHIR						
	4	CRYPTOCLAD						
	4	EPOICOCLAD						
	4	LARSIA						
	4	POLYPEDILU						
	4	PROCLADIUS						
	13	PONTOPOREI						
	15	HYDRACARIN						
	16	AMNICOLA						
	16	CAMPELOMA						
	16	VALVATA TR						
	17	PISIDIUM						
	19	OLIGOCHAET						
	Grand Sum =			Mean =		Std.Dev. =		Std.Err =
6/F	1	CAENIS	0	231	21	84.0	127.7	73.7
	1	EPHEMERA	0	168	189	119.0	103.6	59.8
	1	HEXAGENIA	0	630	168	266.0	326.2	188.4
	2	LEPIDOSTOM	0	0	21	7.0	12.1	7.0
	2	MYSTACIDES	21	0	63	28.0	32.1	18.5
	4	CERATOPOGO	0	147	168	105.0	91.5	52.8
	4	CRYPTOCHIR	42	420	210	224.0	189.4	109.3
	4	CRYPTOCLAD	21	2541	630	1064.0	1314.9	759.1
	4	DICROTENDI	0	210	210	140.0	121.2	70.0
	4	EPOICOCLAD	63	42	42	49.0	12.1	7.0
	4	LARSIA	0	462	861	441.0	430.9	248.8
	4	POLYPEDILU	441	1281	1281	1001.0	485.0	280.0
	4	POTTHASTIA	0	42	0	14.0	24.2	14.0
	4	PROCLADIUS	777	2415	2940	2044.0	1128.2	651.4
	4	STICTOCHIR	168	84	399	217.0	163.1	94.2
	4	TANYTARSUS	441	231	42	238.0	199.6	115.2
	8	CORIXIDAE	0	0	21	7.0	12.1	7.0
	12	ASELLUS	0	21	63	28.0	32.1	18.5

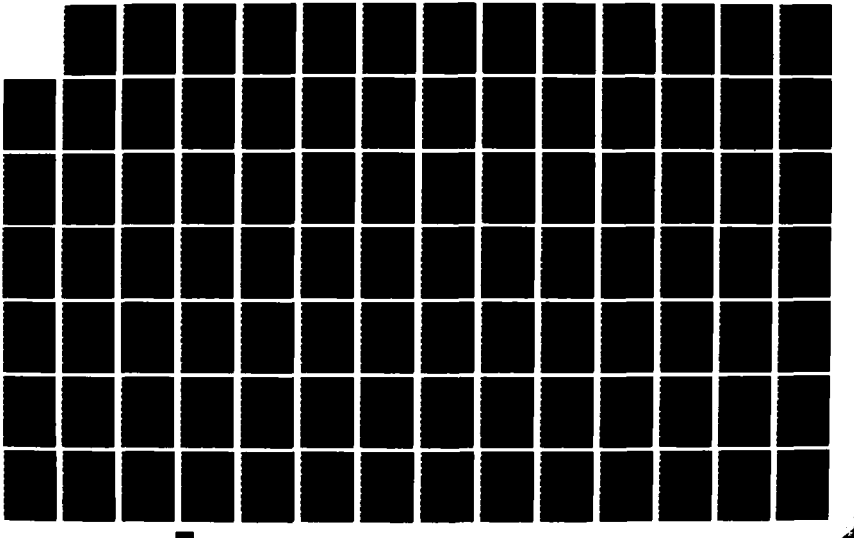
DENSITIES (# SQ. M)

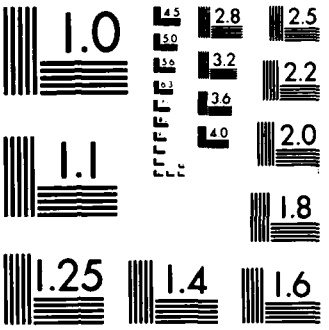
	REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
[illegible] RIELS	0	105	315	140.0	160.4	92.6	3
HYALELLA A	0	189	399	196.0	199.6	115.2	3
HYDRACARIN	0	63	21	28.0	32.1	18.5	3
AMNICOLA	0	21	0	7.0	12.1	7.0	3
CAMPELOMA	0	231	0	77.0	133.4	77.0	3
PHYSA	0	21	63	28.0	32.1	18.5	3
PISIDIUM	0	21	42	21.0	21.0	12.1	3
SPHAER. ST	0	0	21	7.0	12.1	7.0	3
SPHAERIUM	0	21	63	28.0	32.1	18.5	3
OLIGOCHAET	4242	5607	3696	4515.0	984.3	568.3	3

Grand Sum = 33369 Mean = 11123.0 Std.Dev. = 4550.6 Std.Err = 2627.3

AD-A184 685 LIMNOLOGICAL AND FISHERIES STUDIES OF THE ST MARYS RIVER MICHIGAN IN RELA (U) MICHIGAN STATE UNIV EAST LANSING MI DEPT OF FISHERIES AND WIL 3/7

UNCLASSIFIED C R LISTON ET AL JAN 86 F/G 24/4 NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/24/82	5/B	1 CAENIS	0	0	210	70.0	121.2	70.0	3
		1 HEXAGENIA	1407	0	21	476.0	806.3	465.5	3
		2 OECETIS	105	0	0	35.0	60.6	35.0	3
		4 CERATOPOGO	21	0	0	7.0	12.1	7.0	3
		4 CHIRONOMUS	105	0	0	35.0	60.6	35.0	3
		4 CRYPTOCHIR	1071	0	0	357.0	618.3	357.0	3
		4 CRYPTOCLAD	1113	630	840	861.0	242.2	139.8	3
		4 LARSIA	672	0	1050	574.0	531.8	307.0	3
		4 MONODIAMES	210	0	0	70.0	121.2	70.0	3
		4 PARAMETRID	210	0	0	70.0	121.2	70.0	3
		4 POLYPEDILU	84	0	0	28.0	48.5	28.0	3
		4 PROCLADIUS	1659	1050	1050	1253.0	351.6	203.0	3
		4 PSECTROCLA	420	2730	840	1330.0	1230.5	710.4	3
		4 TANYTARSUS	693	210	231	378.0	273.0	157.6	3
		8 CORIXIDAE	21	0	0	7.0	12.1	7.0	3
		13 GAMMARUS	105	0	0	35.0	60.6	35.0	3
		13 HYALELLA A	63	0	0	21.0	36.4	21.0	3
		15 HYDRACARIN	315	0	21	112.0	176.1	101.7	3
		16 AMNICOLA	567	168	84	273.0	258.1	149.0	3
		16 VALVATA	189	21	63	91.0	87.4	50.5	3
		17 PISIDIUM	210	0	0	70.0	121.2	70.0	3
		17 SPHAERIDAE	0	210	210	140.0	121.2	70.0	3
		17 SPHAERIUM	147	21	42	70.0	67.5	39.0	3
		19 OLIGOCHAET	1764	420	1050	1078.0	672.4	388.2	3
		27 POLYCHAETA	21	420	210	217.0	199.6	115.2	3
		Grand Sum = 22974	Mean = 7658.0		Std.Dev. = 3043.3		Std.Err = 1757.0		
	5/C	1 EPHEMERA	0	0	21	7.0	12.1	7.0	3
		1 HEXAGENIA	231	630	588	483.0	219.2	126.6	3
		4 CERATOPOGO	0	210	0	70.0	121.2	70.0	3
		4 CHIRONOMUS	0	42	63	35.0	32.1	18.5	3
		4 CRYPTOCHIR	2730	672	483	1295.0	1246.3	719.6	3
		4 CRYPTOCLAD	1050	630	2100	1260.0	757.2	437.1	3
		4 EPOICOCLAD	0	0	63	21.0	36.4	21.0	3
		4 LARSIA	630	252	1281	721.0	520.5	300.5	3
		4 MONODIAMES	0	0	21	7.0	12.1	7.0	3
		4 POLYPEDILU	0	0	672	224.0	388.0	224.0	3
		4 PROCLADIUS	2940	1050	1344	1778.0	1017.0	587.2	3
		4 PSECTROCLA	1050	0	0	350.0	606.2	350.0	3
		4 TANYTARSUS	0	294	126	140.0	147.5	85.2	3
		8 CORIXIDAE	0	21	0	7.0	12.1	7.0	3
		13 GAMMARUS	0	42	0	14.0	24.2	14.0	3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/24/82	5/C	13 HYALELLA A	0	0	315	105.0	181.9	105.0	3
		13 PONTOPOREI	0	0	21	7.0	12.1	7.0	3
		15 HYDRACARIN	210	105	63	126.0	75.7	43.7	3
		16 AMNICOLA	105	0	105	70.0	60.6	35.0	3
		16 GASTROPODA	0	294	0	98.0	169.7	98.0	3
		16 GYRAULUS	0	0	42	14.0	24.2	14.0	3
		16 PHYSA	0	0	84	28.0	48.5	28.0	3
		17 SPHAERIDAE	0	210	210	140.0	121.2	70.0	3
		17 SPHAERIUM	21	21	21	21.0	0.0	0.0	3
		19 OLIGOCHAET	1470	1260	1785	1505.0	264.2	152.6	3
		20 TURBELLARI	0	0	21	7.0	12.1	7.0	3
		27 POLYCHAETA	0	420	0	140.0	242.5	140.0	3
		Grand Sum = 26019	Mean = 8673.0		Std.Dev. = 2239.8		Std.Err = 1293.2		
	5/D	4 CRYPTOCLAD	441	0	420	287.0	248.8	143.6	3
		4 LARSIA	0	0	630	210.0	363.7	210.0	3
		4 POLYPEDILU	0	420	210	210.0	210.0	121.2	3
		19 OLIGOCHAET	42	420	630	364.0	298.0	172.0	3
		Grand Sum = 3213	Mean = 1071.0		Std.Dev. = 731.4		Std.Err = 422.3		
	5/E	1 EPHEMERA	0	0	63	21.0	36.4	21.0	3
		1 HEXAGENIA	0	0	315	105.0	181.9	105.0	3
		2 LEPIDOSTOM	0	0	105	35.0	60.6	35.0	3
		2 MYSTACIDES	0	0	84	28.0	48.5	28.0	3
		2 POLYCENTRO	0	0	21	7.0	12.1	7.0	3
		4 CERATOPOGO	0	0	105	35.0	60.6	35.0	3
		4 CRYPTOCHIR	84	105	483	224.0	224.5	129.6	3
		4 CRYPTOCLAD	630	210	2520	1120.0	1230.5	710.4	3
		4 HETEROTRIS	630	420	630	560.0	121.2	70.0	3
		4 LARSIA	840	630	1470	980.0	437.1	252.4	3
		4 MONODIAMES	0	0	21	7.0	12.1	7.0	3
		4 POLYPEDILU	252	336	756	448.0	270.0	155.9	3
		4 PROCLADIUS	3003	1092	3843	2646.0	1409.8	814.0	3
		4 PSECTROCLA	420	420	0	280.0	242.5	140.0	3
		4 STICTOCHIR	21	0	0	7.0	12.1	7.0	3
		4 TANYTARSUS	273	777	819	623.0	303.8	175.4	3
		12 LIRCEUS	0	0	63	21.0	36.4	21.0	3
		13 HYALELLA A	0	0	630	210.0	363.7	210.0	3
		15 HYDRACARIN	0	0	147	49.0	84.9	49.0	3
		16 AMNICOLA	0	0	21	7.0	12.1	7.0	3
		16 CAMPELOMA	0	0	42	14.0	24.2	14.0	3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/24/82	5/E	16 VALVATA SI	0	0	21	7.0	12.1	7.0	3
		16 VALVATA TR	0	0	42	14.0	24.2	14.0	3
		17 SPHAERIUM	0	0	21	7.0	12.1	7.0	3
		19 OLIGOCHAET	4242	4431	3549	4074.0	464.4	268.1	3
		27 POLYCHAETA	0	210	0	70.0	121.2	70.0	3
		Grand Sum = 34797	Mean = 11599.0		Std.Dev. = 3719.2		Std.Err = 2147.3		
	5/F	1 EPHEMERA	0	42	0	14.0	24.2	14.0	3
		1 HEXAGENIA	0	21	0	7.0	12.1	7.0	3
		2 MOLANNA	0	63	0	21.0	36.4	21.0	3
		2 MYSTACIDES	0	21	0	7.0	12.1	7.0	3
		2 POLYCENTRO	0	0	42	14.0	24.2	14.0	3
		2 TRIAENODES	0	21	0	7.0	12.1	7.0	3
		4 CRYPTOCHIR	441	210	0	217.0	220.6	127.4	3
		4 CRYPTOCLAD	630	0	0	210.0	363.7	210.0	3
		4 HETEROTRIS	1050	0	210	420.0	555.6	320.8	3
		4 LARSIA	210	630	861	567.0	330.0	190.5	3
		4 MICROSPECT	21	0	0	7.0	12.1	7.0	3
		4 MONODIAMES	0	63	0	21.0	36.4	21.0	3
		4 PARATANYTA	0	0	210	70.0	121.2	70.0	3
		4 POLYPEDILU	42	630	0	224.0	352.2	203.4	3
		4 PROCLADIUS	231	630	651	504.0	236.7	136.6	3
		4 PSECTROCLA	420	840	420	560.0	242.5	140.0	3
		4 PSEUDOCHIR	0	231	126	119.0	115.7	66.8	3
		4 STICTOCHIR	0	63	0	21.0	36.4	21.0	3
		4 TANYTARSUS	420	210	0	210.0	210.0	121.2	3
		12 LIRCEUS	0	1218	0	406.0	703.2	406.0	3
		13 GAMMARUS	0	63	0	21.0	36.4	21.0	3
		13 HYALELLA A	0	2499	630	1043.0	1299.7	750.4	3
		13 PONTOPOREI	0	21	0	7.0	12.1	7.0	3
		15 HYDRACARIN	0	21	0	7.0	12.1	7.0	3
		16 AMNICOLA	0	483	0	161.0	278.9	161.0	3
		16 GYRAULUS	210	0	0	70.0	121.2	70.0	3
		16 PHYSA	0	126	0	42.0	72.7	42.0	3
		17 ELLIPTIO C	0	21	0	7.0	12.1	7.0	3
		17 SPHAERIDAE	0	210	0	70.0	121.2	70.0	3
		17 SPHAERIUM	0	273	0	91.0	157.6	91.0	3
		19 OLIGOCHAET	3465	3969	882	2772.0	1656.1	956.1	3
		27 POLYCHAETA	840	630	0	490.0	437.1	252.4	3
		Grand Sum = 25221	Mean = 8407.0		Std.Dev. = 4603.4		Std.Err = 2657.8		

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/25/82	3/B	1 BAETIS	21	0	0	7.0	12.1	7.0	3
		1 CAENIS	63	0	0	21.0	36.4	21.0	3
		1 EPHEMERA	189	168	168	175.0	12.1	7.0	3
		1 HEXAGENIA	441	273	336	350.0	84.9	49.0	3
		1 LEPTOPHLEB	0	0	147	49.0	84.9	49.0	3
		2 BANKSIOLA	21	0	0	7.0	12.1	7.0	3
		2 NOLANNA	0	21	0	7.0	12.1	7.0	3
		2 MYSTACIDES	42	42	84	56.0	24.2	14.0	3
		2 OECETIS	0	21	0	7.0	12.1	7.0	3
		2 PHRYGANEA	42	0	0	14.0	24.2	14.0	3
		2 POLYCENTRO	84	0	21	35.0	43.7	25.2	3
		3 HALIPLUS L	0	0	21	7.0	12.1	7.0	3
		4 ABLABESMYI	0	0	105	35.0	60.6	35.0	3
		4 CERATOPOGO	987	84	252	441.0	480.3	277.3	3
		4 CRICOTOPUS	0	420	0	140.0	242.5	140.0	3
		4 CRYPTOCHIR	1344	0	42	462.0	764.1	441.2	3
		4 DICROTENDI	63	0	4830	1631.0	2770.6	1599.6	3
		4 ENDOCHIRON	0	0	189	63.0	109.1	63.0	3
		4 EPOICOCLAD	0	0	21	7.0	12.1	7.0	3
		4 HETEROTRIS	231	0	0	77.0	133.4	77.0	3
		4 LARSIA	5460	1071	1050	2527.0	2540.1	1466.5	3
		4 MONODIAMES	21	63	42	42.0	21.0	12.1	3
		4 ORTHOCLADI	1470	0	0	490.0	848.7	490.0	3
		4 PARATANYTA	1134	0	2520	1218.0	1262.1	728.7	3
		4 PHAENOSPEC	0	6909	1218	2709.0	3687.9	2129.2	3
		4 POLYPEDILU	5313	987	2415	2905.0	2204.2	1272.6	3
		4 POTTHASTIA	21	21	0	14.0	12.1	7.0	3
		4 PROCLADIUS	945	987	1155	1029.0	111.1	64.2	3
		4 STICTOCHIR	0	42	0	14.0	24.2	14.0	3
		4 TANYTARSUS	0	336	357	231.0	200.3	115.7	3
		4 TRISSOCLAD	0	420	0	140.0	242.5	140.0	3
		12 ASELLUS	0	0	42	14.0	24.2	14.0	3
		12 LIRCEUS	21	0	336	119.0	188.2	108.7	3
		13 HYALELLA A	147	0	861	336.0	460.6	265.9	3
		15 HYDRACARIN	126	84	42	84.0	42.0	24.2	3
		16 AMNICOLA	1008	0	0	336.0	582.0	336.0	3
		16 AMNICOLA L	0	84	21	35.0	43.7	25.2	3
		16 AMNICOLA W	0	441	0	147.0	254.6	147.0	3
		16 PHYSA INTE	0	0	21	7.0	12.1	7.0	3
		16 VALVATA	21	0	0	7.0	12.1	7.0	3
		16 VALVATA TR	0	63	0	21.0	36.4	21.0	3
		17 PISIDIUM	21	0	0	7.0	12.1	7.0	3
		17 PISIDIUM W	0	0	21	7.0	12.1	7.0	3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/25/82	3/B	17 SPHAERIUM	84	0	21	35.0	43.7	25.2	3
		19 OLIGOCHAET	6825	399	1050	2758.0	3537.1	2042.2	3
		21 NEMATODA	0	5460	2100	2520.0	2754.1	1590.1	3
		23 OSTRACODA	0	1050	420	490.0	528.5	305.1	3
		Grand Sum = 65499	Mean = 21833.0			Std.Dev. = 3741.4	Std.Err = 2160.1		
	3/C	1 EPHEMERA	63	0	42	35.0	32.1	18.5	3
		1 EPHEMERELL	21	0	0	7.0	12.1	7.0	3
		1 HEXAGENIA	651	0	1050	567.0	530.0	306.0	3
		1 LEPTOPHLEB	0	0	84	28.0	48.5	28.0	3
		2 MYSTACIDES	0	63	21	28.0	32.1	18.5	3
		2 OXYETHIRA	21	0	0	7.0	12.1	7.0	3
		2 PHYLOCENTR	0	0	21	7.0	12.1	7.0	3
		2 POLYCENTRO	63	42	231	112.0	103.6	59.8	3
		2 RHYACOPHIL	0	0	210	70.0	121.2	70.0	3
		2 TRIANODES	21	0	42	21.0	21.0	12.1	3
		4 ABLABESMYI	168	21	126	105.0	75.7	43.7	3
		4 CERATOPOGO	252	189	504	315.0	166.7	96.2	3
		4 CRYPTOCHIR	0	42	0	14.0	24.2	14.0	3
		4 EPOICOCLAD	21	0	210	77.0	115.7	66.8	3
		4 LARSIA	840	840	3570	1750.0	1576.2	910.0	3
		4 PHAENOSPEC	525	210	1470	735.0	655.7	378.6	3
		4 POLYPEDILU	1407	1386	567	1120.0	479.0	276.6	3
		4 POTTHASTIA	0	21	21	14.0	12.1	7.0	3
		4 PROCLADIUS	693	462	1638	931.0	623.1	359.7	3
		4 STICTOCHIR	147	0	0	49.0	84.9	49.0	3
		4 TANYTARSUS	0	21	42	21.0	21.0	12.1	3
		8 TRICHOCORI	42	0	21	21.0	21.0	12.1	3
		12 ASELLUS	462	21	42	175.0	248.8	143.6	3
		12 LIRCEUS	420	294	882	532.0	309.6	178.7	3
		13 HYALELLA A	105	0	462	189.0	242.2	139.8	3
		15 HYDRACARIN	21	63	21	35.0	24.2	14.0	3
		16 AMNICOLA L	0	0	21	7.0	12.1	7.0	3
		16 GYRAULUS P	63	0	42	35.0	32.1	18.5	3
		16 HELISOMA A	63	0	0	21.0	36.4	21.0	3
		16 PHYSA	84	0	0	28.0	48.5	28.0	3
		16 PHYSA INTE	0	0	21	7.0	12.1	7.0	3
		16 VALVATA TR	126	21	0	49.0	67.5	39.0	3
		17 PISIDIUM C	0	21	0	7.0	12.1	7.0	3
		17 SPHAER. NI	0	0	21	7.0	12.1	7.0	3
		17 SPHAERIUM	21	0	0	7.0	12.1	7.0	3
		19 OLIGOCHAET	1974	924	1974	1624.0	606.2	350.0	3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/25/82	3/C	20 TURBELLARI	0	0	42	14.0	24.2	14.0	3
		21 NEMATODA	1260	2520	2541	2107.0	733.6	423.5	3
		23 OSTRACODA	0	0	420	140.0	242.5	140.0	3
		26 HYDRA	0	210	210	140.0	121.2	70.0	3
		Grand Sum = 33474	Mean = 11158.0		Std.Dev. = 4809.2		Std.Err = 2776.6		
	3/D	1 EPHEMERA	21	0	0	7.0	12.1	7.0	3
		1 HEXAGENIA	21	21	0	14.0	12.1	7.0	3
		1 LEPTOPHLEB	0	21	0	7.0	12.1	7.0	3
		4 CRICOTOPUS	0	630	0	210.0	363.7	210.0	3
		4 MONODIAMES	420	0	0	140.0	242.5	140.0	3
		4 PARATANYTA	0	84	210	98.0	105.7	61.0	3
		4 POLYPEDILU	420	0	0	140.0	242.5	140.0	3
		4 PSEUDOCHIR	21	0	0	7.0	12.1	7.0	3
		13 HYALELLA A	21	0	0	7.0	12.1	7.0	3
		15 HYDRACARIN	0	0	210	70.0	121.2	70.0	3
		19 OLIGOCHAET	231	0	0	77.0	133.4	77.0	3
		21 NEMATODA	210	0	0	70.0	121.2	70.0	3
		Grand Sum = 2541	Mean = 847.0		Std.Dev. = 479.0		Std.Err = 276.6		
	3/E	1 CAENIS	0	0	21	7.0	12.1	7.0	3
		1 EPHEMERELL	0	21	0	7.0	12.1	7.0	3
		1 HEXAGENIA	210	189	252	217.0	32.1	18.5	3
		1 LEPTOPHLEB	0	84	42	42.0	42.0	24.2	3
		1 PARALEPTOP	0	21	0	7.0	12.1	7.0	3
		2 MYSTACIDES	0	42	0	14.0	24.2	14.0	3
		2 POLYCENTRO	0	63	0	21.0	36.4	21.0	3
		2 TRIANODES	42	42	0	28.0	24.2	14.0	3
		4 ABLABESMYI	42	0	42	28.0	24.2	14.0	3
		4 CERATOPOGO	273	546	378	399.0	137.7	79.5	3
		4 CRYPTOCHIR	315	84	945	448.0	445.6	257.3	3
		4 DICROTENDI	0	420	0	140.0	242.5	140.0	3
		4 EPOICOCLAD	21	21	210	84.0	109.1	63.0	3
		4 LARSIA	3024	10059	3843	5642.0	3847.1	2221.1	3
		4 POLYPEDILU	5439	13503	7287	8743.0	4224.6	2439.1	3
		4 PROCLADIUS	672	1743	1932	1449.0	679.5	392.3	3
		4 STICTOCHIR	1197	987	945	1043.0	135.0	77.9	3
		9 SIALIS	0	21	0	7.0	12.1	7.0	3
		12 ASELLUS	357	63	126	182.0	154.8	89.4	3
		12 LIRCEUS	42	1239	105	462.0	673.6	388.9	3
		13 HYALELLA A	126	1701	462	763.0	829.5	478.9	3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/25/82	3/E	14 ORCONEC. V	0	21	21	14.0	12.1	7.0	3
		15 HYDRACARIN	21	273	21	105.0	145.5	84.0	3
		16 GYRAULUS	0	63	0	21.0	36.4	21.0	3
		16 PHYSA	0	147	0	49.0	84.9	49.0	3
		17 PISIDIUM	0	105	0	35.0	60.6	35.0	3
		17 SPHAERIUM	105	0	0	35.0	60.6	35.0	3
		19 BRANCHIOBD	0	2205	0	735.0	1273.1	735.0	3
		19 OLIGOCHAET	2856	5334	6972	5054.0	2072.2	1196.4	3
		Grand Sum = 77343	Mean = 25781.0		Std.Dev. = 12273.2		Std.Err = 7085.9		
	3/F	1 EPHEMERA	0	21	21	14.0	12.1	7.0	3
		1 HEXAGENIA	651	840	0	497.0	440.7	254.4	3
		2 MYSTACIDES	63	21	0	28.0	32.1	18.5	3
		2 TRIANODES	21	21	0	14.0	12.1	7.0	3
		4 ABLABESMYI	0	63	42	35.0	32.1	18.5	3
		4 CERATOPOGO	840	126	0	322.0	453.0	261.5	3
		4 CHIRONOMUS	315	0	0	105.0	181.9	105.0	3
		4 CRYPTOCHIR	1953	0	0	651.0	1127.6	651.0	3
		4 LARSIA	9093	63	21	3059.0	5225.6	3017.0	3
		4 POLYPEDILU	14406	504	252	5054.0	8100.0	4676.6	3
		4 PROCLADIUS	2058	252	42	784.0	1108.3	639.9	3
		4 STICTOCHIR	168	21	42	77.0	79.5	45.9	3
		4 TANYTARSUS	1491	210	21	574.0	799.7	461.7	3
		9 SIALIS	0	21	0	7.0	12.1	7.0	3
		12 ASELLUS	735	21	84	280.0	395.3	228.2	3
		12 LIRCEUS	168	462	21	217.0	224.5	129.6	3
		13 HYALELLA A	399	336	147	294.0	131.1	75.7	3
		15 HYDRACARIN	84	21	0	35.0	43.7	25.2	3
		16 AMNICOLA	0	21	0	7.0	12.1	7.0	3
		16 GYRAULUS	21	0	0	7.0	12.1	7.0	3
		17 PISIDIUM	21	0	0	7.0	12.1	7.0	3
		19 OLIGOCHAET	9891	987	567	3815.0	5266.2	3040.4	3
		24 HIRUDINEA	483	0	0	161.0	278.9	161.0	3
		Grand Sum = 48132	Mean = 16044.0		Std.Dev. = 23264.9		Std.Err = 13432.0		

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
11/01/82	4/B	1 EPHEMERA	21	21	0	14.0	12.1	7.0	3
		2 MOLANNA	63	0	0	21.0	36.4	21.0	3
		4 ABLABESMYI	21	0	0	7.0	12.1	7.0	3
		4 CERATOPOGO	0	21	0	7.0	12.1	7.0	3
		4 CRICOTOPUS	1596	0	0	532.0	921.5	532.0	3
		4 CRYPTOCHIR	0	252	483	245.0	241.6	139.5	3
		4 DICROTENDI	210	0	0	70.0	121.2	70.0	3
		4 LARSIA	420	441	0	287.0	248.8	143.6	3
		4 MICROSPECT	504	0	0	168.0	291.0	168.0	3
		4 MONODIAMES	63	84	42	63.0	21.0	12.1	3
		4 PARATANYTA	0	4830	5796	3542.0	3105.3	1792.8	3
		4 POLYPEDILU	0	0	84	28.0	48.5	28.0	3
		4 POTTHASTIA	105	0	0	35.0	60.6	35.0	3
		4 PROCLADIUS	42	42	21	35.0	12.1	7.0	3
		4 PSECTROCLA	0	1470	0	490.0	848.7	490.0	3
		4 STICTOCHIR	1932	651	1407	1330.0	644.0	371.8	3
		4 TANYTARSUS	0	168	0	56.0	97.0	56.0	3
		8 TRICHOCORI	21	0	0	7.0	12.1	7.0	3
		13 HYALELLA A	21	42	0	21.0	21.0	12.1	3
		15 HYDRACARIN	273	63	231	189.0	111.1	64.2	3
		16 AMNICOLA	0	210	147	119.0	107.8	62.2	3
		16 AMNICOLA L	63	0	0	21.0	36.4	21.0	3
		16 FOSSARIA	0	42	0	14.0	24.2	14.0	3
		16 GONIOBASIS	0	21	0	7.0	12.1	7.0	3
		16 STAGNICOLA	21	0	0	7.0	12.1	7.0	3
		16 VALVATA	0	42	42	28.0	24.2	14.0	3
		16 VALVATA TR	63	0	0	21.0	36.4	21.0	3
		17 PISIDIUM	0	21	21	14.0	12.1	7.0	3
		17 SPHAER. ST	42	0	0	14.0	24.2	14.0	3
		19 OLIGOCHAET	1302	2646	3318	2422.0	1026.5	592.6	3
		21 NEMATODA	210	0	0	70.0	121.2	70.0	3
		Grand Sum = 29652	Mean = 9884.0			Std.Dev. = 2517.4		Std.Err = 1453.4	
	4/C	1 CAENIS	0	21	0	7.0	12.1	7.0	3
		1 HEXAGENIA	504	273	483	420.0	127.7	73.7	3
		2 CERACLEA	0	42	0	14.0	24.2	14.0	3
		2 MYSTACIDES	0	0	42	14.0	24.2	14.0	3
		2 PHYLOCENTR	0	42	105	49.0	52.8	30.5	3
		2 TRIANODES	0	21	21	14.0	12.1	7.0	3
		4 ABLABESMYI	189	21	21	77.0	97.0	56.0	3
		4 CERATOPOGO	567	525	483	525.0	42.0	24.2	3
		4 CHIRONOMUS	0	0	42	14.0	24.2	14.0	3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
11/01/82	4/C	4 CRICOTOPUS	1680	0	0	560.0	969.9	560.0	3
		4 CRYPTOCHIR	210	1134	882	742.0	477.6	275.8	3
		4 DICROTENDI	0	630	0	210.0	363.7	210.0	3
		4 ENDOCHIRON	0	567	0	189.0	327.4	189.0	3
		4 LARSIA	861	2016	4725	2534.0	1983.4	1145.1	3
		4 MICROSPECT	210	0	0	70.0	121.2	70.0	3
		4 PARACLADOP	0	0	210	70.0	121.2	70.0	3
		4 POLYPEDILU	5964	12054	13293	10437.0	3923.0	2264.9	3
		4 POTTHASTIA	21	0	0	7.0	12.1	7.0	3
		4 PROCLADIUS	315	1617	693	875.0	669.8	386.7	3
		4 STICTOCHIR	1092	0	315	469.0	562.1	324.5	3
		4 TANYTARSUS	0	357	63	140.0	190.5	110.0	3
		8 CORIXIDAE	0	63	0	21.0	36.4	21.0	3
		8 IMMAT. COR	0	0	21	7.0	12.1	7.0	3
		12 ASELLUS	105	63	126	98.0	32.1	18.5	3
		12 LIRCEUS	42	42	84	56.0	24.2	14.0	3
		13 HYALELLA A	63	42	84	63.0	21.0	12.1	3
		15 HYDRACARIN	0	63	21	28.0	32.1	18.5	3
		16 AMNICOLA	42	0	21	21.0	21.0	12.1	3
		16 GYRAULUS	105	0	84	63.0	55.6	32.1	3
		16 PHYSA	0	0	21	7.0	12.1	7.0	3
		17 SPHAERIUM	0	42	0	14.0	24.2	14.0	3
		19 OLIGOCHAET	2121	3843	5922	3962.0	1903.3	1098.9	3
		21 NEMATODA	2940	0	0	980.0	1697.4	980.0	3
		27 POLYCHAETA	0	210	210	140.0	121.2	70.0	3
		Grand Sum = 68691	Mean = 22897.0		Std.Dev. = 5513.2		Std.Err = 3183.1		
	4/D	1 HEXAGENIA	0	0	42	14.0	24.2	14.0	3
		2 CERACLEA	21	0	0	7.0	12.1	7.0	3
		4 LARSIA	0	1050	0	350.0	606.2	350.0	3
		4 POLYPEDILU	0	21	1260	427.0	721.5	416.5	3
		4 PSECTROCLA	0	1260	861	707.0	644.0	371.8	3
		4 STICTOCHIR	0	21	0	7.0	12.1	7.0	3
		15 HYDRACARIN	21	21	0	14.0	12.1	7.0	3
		16 GYRAULUS	63	0	0	21.0	36.4	21.0	3
		19 OLIGOCHAET	231	210	1260	567.0	600.2	346.6	3
		24 HIRUDINEA	0	21	0	7.0	12.1	7.0	3
		27 POLYCHAETA	210	0	7350	2520.0	4184.2	2415.8	3
		Grand Sum = 13923	Mean = 4641.0		Std.Dev. = 5409.2		Std.Err = 3123.0		
	4/E	1 BAETIS	0	0	21	7.0	12.1	7.0	3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
11/01/82	4/E	1 EPHEMERELL	0	0	21	7.0	12.1	7.0	3
		1 HEXAGENIA	42	357	315	238.0	171.0	98.7	3
		1 LEPTOPHLEB	0	0	21	7.0	12.1	7.0	3
		2 CERACLEA	21	63	63	49.0	24.2	14.0	3
		2 POLYCENTRO	42	0	21	21.0	21.0	12.1	3
		2 TRIANODES	63	0	21	28.0	32.1	18.5	3
		2 TRICHOPTER	210	0	0	70.0	121.2	70.0	3
		4 CERATOPOGO	21	147	273	147.0	126.0	72.7	3
		4 CHIRONOMID	0	0	17220	5740.0	9942.0	5740.0	3
		4 CHIRONOMUS	2205	1113	1071	1463.0	642.9	371.2	3
		4 CRYPTOCHIR	42	0	0	14.0	24.2	14.0	3
		4 CRYPTOCLAD	210	0	0	70.0	121.2	70.0	3
		4 DICROTENDI	294	2142	0	812.0	1161.2	670.4	3
		4 EPOICOCLAD	0	21	0	7.0	12.1	7.0	3
		4 LARSIA	6153	2478	147	2926.0	3028.0	1748.2	3
		4 PARATANYTA	0	441	0	147.0	254.6	147.0	3
		4 POLYPEDILU	1554	5859	1365	2926.0	2541.8	1467.5	3
		4 PROCLADIUS	2562	1491	567	1540.0	998.4	576.4	3
		4 STICTOCHIR	5649	84	0	1911.0	3237.5	1869.2	3
		12 ASELLUS	315	462	798	525.0	247.6	142.9	3
		12 LIRCEUS	0	126	441	189.0	227.1	131.1	3
		13 GAMMARUS	21	0	0	7.0	12.1	7.0	3
		13 HYALELLA A	294	168	21	161.0	136.6	78.9	3
		14 DECAPODA	21	0	0	7.0	12.1	7.0	3
		15 HYDRACARIN	21	42	84	49.0	32.1	18.5	3
		16 GYRAULUS	21	0	147	56.0	79.5	45.9	3
		16 HELISOMA	0	21	0	7.0	12.1	7.0	3
		16 PHYSA	84	0	105	63.0	55.6	32.1	3
		19 OLIGOCHAET	9219	5376	4494	6363.0	2512.4	1450.5	3
		24 HIRUDINEA	21	0	0	7.0	12.1	7.0	3
		27 POLYCHAETA	420	0	0	140.0	242.5	140.0	3
		Grand Sum = 77112	Mean = 25704.0			Std.Dev. = 4741.4		Std.Err = 2737.4	
	4/F	1 HEXAGENIA	21	63	0	28.0	32.1	18.5	3
		2 CERACLEA	0	21	0	7.0	12.1	7.0	3
		2 PHYLOCENTR	0	21	0	7.0	12.1	7.0	3
		2 TRIANODES	21	42	63	42.0	21.0	12.1	3
		4 CERATOPOGO	105	42	0	49.0	52.8	30.5	3
		4 CHIRONOMUS	1743	3948	4536	3409.0	1472.4	850.1	3
		4 CRYPTOCHIR	924	84	0	336.0	511.0	295.0	3
		4 CRYPTOCLAD	0	1260	0	420.0	727.5	420.0	3
		4 DICROTENDI	2016	840	735	1197.0	711.2	410.6	3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
11/01/82	4/F	4 EPOICOCLAD	0	231	0	77.0	133.4	77.0	3
		4 HETEROTRIS	12600	0	420	4340.0	7156.5	4131.8	3
		4 LARSIA	8841	2583	0	3808.0	4546.0	2624.6	3
		4 PARATANYTA	0	420	0	140.0	242.5	140.0	3
		4 POLYPEDILU	6195	483	0	2226.0	3445.7	1989.4	3
		4 PROCLADIUS	6342	819	0	2387.0	3449.5	1991.6	3
		4 STICTOCHIR	2121	756	294	1057.0	950.0	548.5	3
		12 ASELLUS	1176	357	630	721.0	417.0	240.8	3
		12 LIRCEUS	420	168	252	280.0	128.3	74.1	3
		13 GAMMARUS	105	0	0	35.0	60.6	35.0	3
		13 HYALELLA A	357	357	189	301.0	97.0	56.0	3
		15 HYDRACARIN	21	0	0	7.0	12.1	7.0	3
		16 AMNICOLA	21	0	0	7.0	12.1	7.0	3
		16 GYRAULUS	42	42	0	28.0	24.2	14.0	3
		16 PHYSA	0	0	84	28.0	48.5	28.0	3
		19 OLIGOCHAET	14637	6006	10605	10416.0	4318.6	2493.3	3
		20 TURBELLARI	21	0	0	7.0	12.1	7.0	3

Grand Sum = 94080 Mean = 31360.0 Std.Dev. = 22639.2 Std.Err = 13186.2

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
11/09/82	1/B	1 CAENIS	0	42	0	14.0	24.2	14.0	3
		1 EPHEMERA	21	294	147	154.0	136.6	78.9	3
		1 HEXAGENIA	567	567	399	511.0	97.0	56.0	3
		2 LEPIDOSTOM	0	21	0	7.0	12.1	7.0	3
		2 MOLANNA	63	0	21	28.0	32.1	18.5	3
		2 MYSTACIDES	0	0	21	7.0	12.1	7.0	3
		2 NECTOPSYCH	105	0	0	35.0	60.6	35.0	3
		2 NYCTIOPHYL	21	21	21	21.0	0.0	0.0	3
		2 OECETIS	21	0	0	7.0	12.1	7.0	3
		2 POLYCENTRO	21	84	42	49.0	32.1	18.5	3
		4 ABLABESMYI	0	0	21	7.0	12.1	7.0	3
		4 CERATOPOGO	336	273	462	357.0	96.2	55.6	3
		4 CLADOTANYT	0	0	126	42.0	72.7	42.0	3
		4 CRICOTOPUS	210	0	0	70.0	121.2	70.0	3
		4 CRYPTOCHIR	1911	1491	1113	1505.0	399.2	230.5	3
		4 DICROTENDI	0	672	0	224.0	388.0	224.0	3
		4 ENDOCHIRON	42	0	0	14.0	24.2	14.0	3
		4 EPOICOCLAD	21	21	315	119.0	169.7	98.0	3
		4 HETEROTRIS	1050	0	1050	700.0	606.2	350.0	3
		4 LARSIA	231	231	840	434.0	351.6	203.0	3
		4 MONODIAMES	84	0	21	35.0	43.7	25.2	3
		4 MYSTACIDES	0	21	0	7.0	12.1	7.0	3
		4 PARATANYTA	3087	2058	3528	2891.0	754.3	435.5	3
		4 POLYPEDILU	420	0	630	350.0	320.8	185.2	3
		4 PROCLADIUS	0	210	210	140.0	121.2	70.0	3
		4 PSEUDOCHIR	0	21	42	21.0	21.0	12.1	3
		4 STEMPELLIN	21	0	21	14.0	12.1	7.0	3
		4 TANYTARSUS	147	0	3024	1057.0	1705.1	984.4	3
		12 LIRCEUS	0	21	0	7.0	12.1	7.0	3
		13 HYALELLA A	126	462	189	259.0	178.6	103.1	3
		16 AMNICOLA	294	63	441	266.0	190.5	110.0	3
		16 PHYSA	21	0	0	7.0	12.1	7.0	3
		16 VALVATA	126	0	147	91.0	79.5	45.9	3
		17 PISIDIUM	21	0	21	14.0	12.1	7.0	3
		17 SPHAERIUM	63	63	0	42.0	36.4	21.0	3
		19 OLIGOCHAET	2478	3864	4242	3528.0	928.8	536.2	3
		Grand Sum = 39102	Mean = 13034.0			Std.Dev. = 3552.0		Std.Err = 2050.7	
	1/C	1 EPHEMERA	21	21	0	14.0	12.1	7.0	3
		2 MYSTACIDES	0	0	21	7.0	12.1	7.0	3
		4 ABLABESMYI	0	0	210	70.0	121.2	70.0	3
		4 CERATOPOGO	21	0	21	14.0	12.1	7.0	3

GEAR : PONAR

DATE	STA/SITE		TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
11/09/82	1/C	4	CHIRONOMID	4074	0	0	1358.0	2352.1	1358.0	3
		4	CLADOTANYT	0	0	840	280.0	485.0	280.0	3
		4	CRICOTOPUS	0	0	210	70.0	121.2	70.0	3
		4	CRYPTOCHIR	0	945	273	406.0	486.3	280.8	3
		4	HARNISCHIA	0	0	42	14.0	24.2	14.0	3
		4	LARSIA	0	0	420	140.0	242.5	140.0	3
		4	MONODIAMES	0	63	63	42.0	36.4	21.0	3
		4	PARATANYTA	0	1848	0	616.0	1066.9	616.0	3
		4	POLYPEDILU	0	1260	420	560.0	641.6	370.4	3
		4	PROCLADIUS	0	0	210	70.0	121.2	70.0	3
		4	TANYTARSUS	0	0	105	35.0	60.6	35.0	3
		15	HYDRACARIN	210	21	189	140.0	103.6	59.8	3
		16	AMNICOLA	252	777	336	455.0	282.0	162.8	3
		16	GONIOBASIS	168	315	294	259.0	79.5	45.9	3
		16	STAGNICOLA	0	0	21	7.0	12.1	7.0	3
		17	PISIDIUM	168	63	0	77.0	84.9	49.0	3
		19	OLIGOCHAET	1470	1869	840	1393.0	518.8	299.5	3
		Grand Sum =		18081	Mean =	6027.0	Std.Dev. =	1368.9	Std.Err =	790.3
	1/D	1	HEXAGENIA	0	21	0	7.0	12.1	7.0	3
		4	CRICOTOPUS	0	1911	0	637.0	1103.3	637.0	3
		4	CRYPTOCHIR	420	420	0	280.0	242.5	140.0	3
		4	LARSIA	0	42	0	14.0	24.2	14.0	3
		4	MICROTENDI	0	105	0	35.0	60.6	35.0	3
		4	PARATANYTA	210	630	0	280.0	320.8	185.2	3
		4	STICTOCHIR	0	21	0	7.0	12.1	7.0	3
		4	TANYTARSUS	0	42	0	14.0	24.2	14.0	3
		4	THIENEMANN	21	0	0	7.0	12.1	7.0	3
		12	LIRCEUS	0	0	21	7.0	12.1	7.0	3
		15	HYDRACARIN	0	0	42	14.0	24.2	14.0	3
		19	OLIGOCHAET	210	840	0	350.0	437.1	252.4	3
		Grand Sum =		4956	Mean =	1652.0	Std.Dev. =	2099.4	Std.Err =	1212.1
	1/E	4	CERATOPOGO	1071	0	63	378.0	601.0	347.0	3
		4	CRYPTOCHIR	630	210	420	420.0	210.0	121.2	3
		4	ENDOCHIRON	0	0	420	140.0	242.5	140.0	3
		4	LARSIA	210	0	0	70.0	121.2	70.0	3
		4	MONODIAMES	231	21	0	84.0	127.7	73.7	3
		4	PARATANYTA	0	210	0	70.0	121.2	70.0	3
		4	PROCLADIUS	42	420	0	154.0	231.3	133.6	3
		4	STICTOCHIR	0	0	21	7.0	12.1	7.0	3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
11/09/82	1/E	4 THIENEMANN	420	84	0	168.0	222.2	128.3	3
		8 SIGARA	0	0	21	7.0	12.1	7.0	3
		13 PONTOPOREI	21	21	84	42.0	36.4	21.0	3
		17 SPHAERIUM	21	0	0	7.0	12.1	7.0	3
		19 OLIGOCHAET	231	210	0	147.0	127.7	73.7	3
		Grand Sum = 5082	Mean = 1694.0		Std.Dev. = 1027.1		Std.Err = 593.0		
	1/F	4 CERATOPOGO	0	1680	252	644.0	906.0	523.1	3
		4 CRICOTOPUS	210	420	1260	630.0	555.6	320.8	3
		4 CRYPTOCHIR	0	0	462	154.0	266.7	154.0	3
		4 ENDOCHIRON	840	420	0	420.0	420.0	242.5	3
		4 MONODIAMES	0	21	21	14.0	12.1	7.0	3
		4 PARATANYTA	0	1260	840	700.0	641.6	370.4	3
		4 PROCLADIUS	0	21	0	7.0	12.1	7.0	3
		4 STICTOCHIR	84	0	0	28.0	48.5	28.0	3
		4 THIENEMANN	0	105	0	35.0	60.6	35.0	3
		13 PONTOPOREI	84	21	42	49.0	32.1	18.5	3
		15 HYDRACARIN	0	21	21	14.0	12.1	7.0	3
		16 GONIOBASIS	21	0	0	7.0	12.1	7.0	3
		19 OLIGOCHAET	21	0	525	182.0	297.2	171.6	3
		Grand Sum = 8652	Mean = 2884.0		Std.Dev. = 1432.7		Std.Err = 827.2		

GEAR : ECKMAN

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/18/82	2/A	1 CAENIS	43	0	645	229.3	360.6	208.2	3
		1 HEXAGENIA	129	43	0	57.3	65.7	37.9	3
		2 MYSTACIDES	215	0	172	129.0	113.8	65.7	3
		4 ABLABESMYI	0	43	0	14.3	24.8	14.3	3
		4 ANTHONYIID	43	0	0	14.3	24.8	14.3	3
		4 CERATOPOGO	387	86	43	172.0	187.4	108.2	3
		4 CRICOTOPUS	0	860	0	286.7	496.5	286.7	3
		4 CRYPTOCHIR	473	215	1204	630.7	513.0	296.2	3
		4 DICROTENDI	0	0	215	71.7	124.1	71.7	3
		4 GLYPTOTEND	0	0	129	43.0	74.5	43.0	3
		4 LARSIA	0	0	430	143.3	248.3	143.3	3
		4 MICROTENDI	0	0	1462	487.3	844.1	487.3	3
		4 MONODIAMES	0	301	43	114.7	162.8	94.0	3
		4 PARATANYTA	2107	4988	989	2694.7	2063.3	1191.2	3
		4 POLYPEDILU	4429	2365	6880	4558.0	2260.3	1305.0	3
		4 PROCLADIUS	86	0	129	71.7	65.7	37.9	3
		4 STICTOCHIR	0	430	0	143.3	248.3	143.3	3
		5 ENALLAGMA	43	0	0	14.3	24.8	14.3	3
		12 ASELLUS	43	129	172	114.7	65.7	37.9	3
		12 LIRCEUS	43	0	86	43.0	43.0	24.8	3
		13 GAMMARUS	0	0	86	28.7	49.7	28.7	3
		13 HYALELLA A	817	301	473	530.3	262.7	151.7	3
		16 AMNICOLA L	43	0	43	28.7	24.8	14.3	3
		16 VALVATA TR	0	0	43	14.3	24.8	14.3	3
		17 PISIDIUM C	387	0	43	143.3	212.1	122.5	3
		17 PISIDIUM N	0	129	172	100.3	89.5	51.7	3
		19 OLIGOCHAET	0	1032	817	616.3	544.5	314.4	3
		20 TURBELLARI	43	0	0	14.3	24.8	14.3	3
		21 NEMATODA	0	430	430	286.7	248.3	143.3	3
		23 OSTRACODA	0	1290	860	716.7	656.8	379.2	3
		24 HIRUDINEA	0	0	129	43.0	74.5	43.0	3
		27 MANYUNKIA	43	0	0	14.3	24.8	14.3	3

Grand Sum = 37711 Mean = 12570.3 Std.Dev. = 3161.1 Std.Err = 1825.1

BEAR : ECKMAN

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/22/82	7/A	1 CAENIS	86	0	0	57.3	49.7	28.7	3
		4 CRYPTOCHIR	43	0	0	14.3	24.8	14.3	3
		4 PARATANYTA	903	430	0	745.3	273.1	157.7	3
		4 PROCLADIUS	0	0	430	143.3	248.3	143.3	3
		4 STICTOCHIR	0	0	129	43.0	74.5	43.0	3
		13 GAMMARUS	0	43	0	14.3	24.8	14.3	3
		13 HYALELLA A	172	0	43	129.0	74.5	43.0	3
		15 HYDRACARIN	0	43	43	28.7	24.8	14.3	3
		19 OLIGOCHAET	1333	645	1720	1232.7	544.5	314.4	3
		20 TURBELLARI	43	0	0	14.3	24.8	14.3	3
		Grand Sum = 6106	Mean = 2035.3			Std.Dev. = 764.8		Std.Err = 441.6	
	7/6	1 CAENIS	0	43	0	14.3	24.8	14.3	3
		2 MYSTACIDES	43	0	0	14.3	24.8	14.3	3
		2 POLYCENTRO	0	0	43	14.3	24.8	14.3	3
		3 BRYCHIUS	0	43	0	14.3	24.8	14.3	3
		4 LARSIA	0	43	0	14.3	24.8	14.3	3
		4 MICROTENDI	0	0	344	114.7	198.6	114.7	3
		4 MONODIAMES	43	0	0	14.3	24.8	14.3	3
		4 PARATANYTA	0	43	0	14.3	24.8	14.3	3
		4 POLYPEDILU	516	0	0	172.0	297.9	172.0	3
		4 POTTHASTIA	0	0	86	28.7	49.7	28.7	3
		4 PROCLADIUS	43	0	2193	745.3	1253.9	723.9	3
		4 STICTOCHIR	43	0	0	14.3	24.8	14.3	3
		12 LIRCEUS	0	344	0	114.7	198.6	114.7	3
		13 GAMMARUS	0	86	0	28.7	49.7	28.7	3
		13 HYALELLA A	1591	2709	559	1619.7	1075.3	620.8	3
		15 HYDRACARIN	0	0	43	14.3	24.8	14.3	3
		16 PHYSA	0	0	43	14.3	24.8	14.3	3
		17 PISIDIUM	43	0	43	28.7	24.8	14.3	3
		19 OLIGOCHAET	2279	258	903	1146.7	1032.3	596.0	3
		20 TURBELLARI	0	86	0	28.7	49.7	28.7	3
		Grand Sum = 12513	Mean = 4171.0			Std.Dev. = 478.8		Std.Err = 276.5	

GEAR : ECKMAN

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/23/82	6/A	4 CERATOPOGO	0	0	43	14.3	24.8	14.3	3
		4 PARATANYTA	0	860	0	286.7	496.5	286.7	3
		4 RHEOTANYTA	43	430	0	157.7	236.8	136.7	3
		13 HYALELLA A	0	0	43	14.3	24.8	14.3	3
		15 HYDRACARIN	43	0	43	28.7	24.8	14.3	3
		16 AMNICOLA	43	0	0	14.3	24.8	14.3	3
		19 OLIGOCHAET	1720	1806	1763	1763.0	43.0	24.8	3
		Grand Sum = 6837	Mean = 2279.0		Std.Dev. = 707.9		Std.Err = 408.7		
	6/6	1 EPHEMERA	0	43	0	14.3	24.8	14.3	3
		2 OECETIS	0	0	172	57.3	99.3	57.3	3
		2 PHRYGANEA	86	0	0	28.7	49.7	28.7	3
		4 CERATOPOGO	473	0	0	157.7	273.1	157.7	3
		4 EMPIDIDAE	0	0	43	14.3	24.8	14.3	3
		4 PARATANYTA	0	430	430	286.7	248.3	143.3	3
		4 POLYPEDILU	0	129	86	71.7	65.7	37.9	3
		4 POTTHASTIA	0	43	0	14.3	24.8	14.3	3
		4 PROCLADIUS	0	473	0	157.7	273.1	157.7	3
		4 TANYTARSUS	0	86	0	28.7	49.7	28.7	3
		8 CORIXIDAE	0	0	43	14.3	24.8	14.3	3
		9 SIALIS	0	129	0	43.0	74.5	43.0	3
		13 HYALELLA A	0	86	43	43.0	43.0	24.8	3
		15 HYDRACARIN	0	516	430	315.3	276.5	159.6	3
		16 AMNICOLA	43	0	0	14.3	24.8	14.3	3
		17 PISIDIUM	43	43	0	28.7	24.8	14.3	3
		19 OLIGOCHAET	903	3698	1290	1963.7	1514.4	874.3	3
		20 TURBELLARI	43	0	0	14.3	24.8	14.3	3
		27 POLYCHAETA	0	860	0	286.7	496.5	286.7	3
		Grand Sum = 10664	Mean = 3554.7		Std.Dev. = 2624.9		Std.Err = 1515.5		

GEAR : ECKMAN

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/24/82	5/A	4 HETEROTRIS	1290	0	0	430.0	744.8	430.0	3
		4 PARATANYTA	430	0	0	143.3	248.3	143.3	3
		4 PHAENOSPEC	0	860	0	286.7	496.5	286.7	3
		4 POLYPEDILU	0	0	430	143.3	248.3	143.3	3
		4 PSEUDOCHIR	215	86	86	129.0	74.5	43.0	3
		4 STICTOCHIR	172	86	0	86.0	86.0	49.7	3
		4 TANYTARSUS	0	0	430	143.3	248.3	143.3	3
		12 LIRCEUS	0	0	43	14.3	24.8	14.3	3
		17 PISIDIUM	0	0	43	14.3	24.8	14.3	3
		19 OLIGOCHAET	3354	3225	860	2479.7	1404.2	810.7	3
		20 TURBELLARI	0	0	129	43.0	74.5	43.0	3
		Grand Sum = 11739	Mean = 3913.0			Std.Dev. = 1745.6		Std.Err = 1007.8	
	5/G	1 CAENIS	43	0	0	14.3	24.8	14.3	3
		1 EPHEMERA	86	0	0	28.7	49.7	28.7	3
		2 OECETIS	43	0	0	14.3	24.8	14.3	3
		4 CLADOTANYT	0	0	2150	716.7	1241.3	716.7	3
		4 CRYPTOCHIR	0	0	129	43.0	74.5	43.0	3
		4 EPOICOCLAD	0	0	43	14.3	24.8	14.3	3
		4 LARSIA	430	0	860	430.0	430.0	248.3	3
		4 PARATANYTA	0	430	86	172.0	227.5	131.4	3
		4 PSECTROCLA	1290	0	0	430.0	744.8	430.0	3
		4 STICTOCHIR	0	0	43	14.3	24.8	14.3	3
		13 HYALELLA A	172	0	430	200.7	216.4	125.0	3
		15 HYDRACARIN	43	430	0	157.7	236.8	136.7	3
		16 AMNICOLA	258	0	0	86.0	149.0	86.0	3
		19 OLIGOCHAET	4085	5590	12470	7381.7	4470.4	2581.0	3
		Grand Sum = 29111	Mean = 9703.7			Std.Dev. = 5635.5		Std.Err = 3253.7	

GEAR : ECKMAN

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/25/82	3/A	1 CAENIS	43	43	0	28.7	24.8	14.3	3
		1 HEXAGENIA	129	0	0	43.0	74.5	43.0	3
		1 LEPTOPHLEB	43	0	0	14.3	24.8	14.3	3
		2 AGRYPNIA	43	0	0	14.3	24.8	14.3	3
		2 BANKSIOLA	0	0	43	14.3	24.8	14.3	3
		2 FABRIA	0	0	43	14.3	24.8	14.3	3
		2 POLYCENTRO	86	43	0	43.0	43.0	24.8	3
		4 ABLABESMYI	129	129	344	200.7	124.1	71.7	3
		4 CERATOPOGO	516	430	129	358.3	203.2	117.3	3
		4 CRYPTOCHIR	473	688	516	559.0	113.8	65.7	3
		4 CRYPTOCLAD	0	5203	860	2021.0	2789.0	1610.3	3
		4 CRYPTOTEND	430	0	0	143.3	248.3	143.3	3
		4 DICROTENDI	129	172	86	129.0	43.0	24.8	3
		4 LARSIA	0	1290	1290	860.0	744.8	430.0	3
		4 POLYPEDILU	1763	2967	3397	2709.0	847.0	489.0	3
		4 POTTHASTIA	430	0	0	143.3	248.3	143.3	3
		4 PROCLADIUS	86	129	430	215.0	187.4	108.2	3
		4 TABANIDAE	86	0	0	28.7	49.7	28.7	3
		4 TANYTARSUS	5547	8686	6536	6923.0	1604.9	926.6	3
		12 ASELLUS	172	645	1806	874.3	840.8	485.4	3
		13 GAMMARUS	43	258	129	143.3	108.2	62.5	3
		13 HYALELLA A	559	602	387	516.0	113.8	65.7	3
		15 HYDRACARIN	473	473	430	458.7	24.8	14.3	3
		16 AMNICOLA	172	0	86	86.0	86.0	49.7	3
		16 GYRAULUS	0	86	0	28.7	49.7	28.7	3
		17 SPHAERIUM	43	0	0	14.3	24.8	14.3	3
		19 OLIGOCHAET	1849	4472	1376	2565.7	1667.8	962.9	3
		24 ERPODELLA	0	0	43	14.3	24.8	14.3	3
		24 HELOBDELLA	0	0	43	14.3	24.8	14.3	3
		24 HIRUDINEA	43	43	0	28.7	24.8	14.3	3

Grand Sum = 57620 Mean = 19206.7 Std.Dev. = 6622.6 Std.Err = 3823.6

GEAR : ECKMAN

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
11/01/82	4/A	1 CAENIS	602	602	0	401.3	347.6	200.7	3
		1 EPHEMERELL	0	43	0	14.3	24.8	14.3	3
		2 AGRYPNIA	43	86	0	43.0	43.0	24.8	3
		2 POLYCENTRO	86	0	0	28.7	49.7	28.7	3
		4 CERATOPOGO	86	903	0	329.7	498.4	287.7	3
		4 CORYNONEUR	430	0	860	430.0	430.0	248.3	3
		4 CRYPTOCHIR	0	387	0	129.0	223.4	129.0	3
		4 DICROTENDI	1849	0	86	645.0	1043.6	602.5	3
		4 EPOICOCLAD	430	0	0	143.3	248.3	143.3	3
		4 LARSIA	430	7310	1720	3153.3	3657.1	2111.4	3
		4 LAUTERBORN	0	6880	0	2293.3	3972.2	2293.3	3
		4 MICROTENDI	860	0	0	286.7	496.5	286.7	3
		4 MONODIAMES	0	43	0	14.3	24.8	14.3	3
		4 POLYPEDILU	0	2494	0	831.3	1439.9	831.3	3
		4 PROCLADIUS	86	0	0	28.7	49.7	28.7	3
		4 PSEUDOCHIR	172	1505	0	559.0	823.8	475.6	3
		4 TANYTARSUS	0	0	1720	573.3	993.0	573.3	3
		10 PARAPOYNX	0	43	0	14.3	24.8	14.3	3
		12 ASELLUS	344	0	86	143.3	179.0	103.4	3
		13 GAMMARUS	0	43	0	14.3	24.8	14.3	3
		13 HYALELLA A	473	43	43	186.3	248.3	143.3	3
		16 AMNICOLA	0	0	43	14.3	24.8	14.3	3
		16 GYRAULUS	0	129	43	57.3	65.7	37.9	3
		16 PROMENETUS	0	43	0	14.3	24.8	14.3	3
		17 PISIDIUM	0	387	86	157.7	203.2	117.3	3
		17 SPHAERIUM	0	258	0	86.0	149.0	86.0	3
		19 OLIGOCHAET	1634	3827	903	2121.3	1521.7	878.6	3
		20 TURBELLARI	43	0	0	14.3	24.8	14.3	3
		24 HELOB. STA	86	0	0	28.7	49.7	28.7	3
		27 POLYCHAETA	0	860	0	286.7	496.5	286.7	3
		Grand Sum = 39130	Mean = 13043.3			Std.Dev. = 11169.9		Std.Err = 6448.9	
	4/B	1 BAETIS	0	129	0	43.0	74.5	43.0	3
		1 CAENIS	989	430	645	688.0	282.0	162.8	3
		1 EPHEMERA	0	0	387	129.0	223.4	129.0	3
		1 EPHEMERELL	0	43	0	14.3	24.8	14.3	3
		1 HEXAGENIA	43	43	473	186.3	248.3	143.3	3
		1 LEPTOPHLEB	43	86	43	57.3	24.8	14.3	3
		2 MYSTACIDES	0	86	86	57.3	49.7	28.7	3
		2 PHYLOCENTR	0	0	86	28.7	49.7	28.7	3
		3 HELOPHORUS	43	0	0	14.3	24.8	14.3	3
		4 CERATOPOGO	688	430	129	415.7	279.8	161.5	3

GEAR : ECKMAN

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
11/01/82	4/6	4 CRYPTOCHIR	2709	1376	602	1562.3	1065.8	615.3	3
		4 EPOICOCLAD	0	0	430	143.3	248.3	143.3	3
		4 LARSIA	2150	860	3440	2150.0	1290.0	744.8	3
		4 LAUTERBORN	0	860	0	286.7	496.5	286.7	3
		4 MONODIAMES	43	0	0	14.3	24.8	14.3	3
		4 PARATANYTA	2193	0	903	1032.0	1102.2	636.3	3
		4 POLYPEDILU	1978	903	129	1003.3	928.6	536.1	3
		4 PROCLADIUS	2580	0	0	860.0	1489.6	860.0	3
		4 PSEUDOCHIR	5762	2150	2709	3540.3	1944.2	1122.5	3
		4 STICTOCHIR	989	344	0	444.3	502.1	289.9	3
		4 TANYTARSUS	0	0	2580	860.0	1489.6	860.0	3
		13 GAMMARUS	0	43	0	14.3	24.8	14.3	3
		13 HYALELLA A	215	0	43	86.0	113.8	65.7	3
		13 PONTOPOREI	86	0	0	28.7	49.7	28.7	3
		15 HYDRACARIN	0	0	129	43.0	74.5	43.0	3
		16 AMNICOLA	0	86	0	28.7	49.7	28.7	3
		16 GYRAULUS	172	0	215	129.0	113.8	65.7	3
		16 VALVATA	43	0	0	14.3	24.8	14.3	3
		17 PISIDIUM	129	86	0	71.7	65.7	37.9	3
		17 SPHAERIUM	0	1075	0	358.3	620.7	358.3	3
		19 OLIGOCHAET	3999	473	688	1720.0	1976.6	1141.2	3
		27 POLYCHAETA	1720	860	0	860.0	860.0	496.5	3

Grand Sum = 50654 Mean = 16884.7 Std.Dev. = 8557.1 Std.Err = 4940.5

GEAR : ECKMAN

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
11/09/82	1/A	1 CAENIS	43	301	215	186.3	131.4	75.8	3
		1 HEXAGENIA	0	0	86	28.7	49.7	28.7	3
		1 LEPTOPHLEB	0	0	43	14.3	24.8	14.3	3
		2 AGRYPNIA	0	0	86	28.7	49.7	28.7	3
		2 HELICOPSYC	43	0	0	14.3	24.8	14.3	3
		2 MYSTACIDES	43	0	0	14.3	24.8	14.3	3
		2 OECETIS	129	0	0	43.0	74.5	43.0	3
		2 PHYLOCENTR	0	43	0	14.3	24.8	14.3	3
		2 POLYCENTRO	0	0	43	14.3	24.8	14.3	3
		4 CERATOPOGO	86	0	516	200.7	276.5	159.6	3
		4 CRYPTOCHIR	946	516	2279	1247.0	919.2	530.7	3
		4 DICROTENDI	129	0	1290	473.0	710.5	410.2	3
		4 ENDOCHIRON	0	0	387	129.0	223.4	129.0	3
		4 EPOICOCLAD	0	0	43	14.3	24.8	14.3	3
		4 LARSIA	0	0	2150	716.7	1241.3	716.7	3
		4 MICROSPECT	0	0	1290	430.0	744.8	430.0	3
		4 PARACHIRON	0	860	0	286.7	496.5	286.7	3
		4 PARATANYTA	43	0	430	157.7	236.8	136.7	3
		4 POLYPEDILU	1075	2236	0	1103.7	1118.3	645.6	3
		4 PSECTROCLA	0	1290	3010	1433.3	1510.1	871.9	3
		4 PSEUDOCHIR	43	0	387	143.3	212.1	122.5	3
		4 STICTOCHIR	258	0	0	86.0	149.0	86.0	3
		4 THIENEMANN	0	430	0	143.3	248.3	143.3	3
		13 HYALELLA A	129	129	0	86.0	74.5	43.0	3
		15 HYDRACARIN	43	0	0	14.3	24.8	14.3	3
		16 AMNICOLA	43	43	0	28.7	24.8	14.3	3
		17 PISIDIUM	43	0	0	14.3	24.8	14.3	3
		19 OLIGOCHAET	344	1935	3182	1820.3	1422.5	821.3	3

Grand Sum = 26660 Mean = 8886.7 Std.Dev. = 6074.2 Std.Err = 3506.9

GEAR : GERKING

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/18/82	2/A	1 BAETIS	20	0	0	6.7	11.5	6.7	3
		1 EPHEMERELL	20	0	0	6.7	11.5	6.7	3
		1 HEXAGENIA	20	0	0	6.7	11.5	6.7	3
		2 HYDROPTILA	40	0	0	13.3	23.1	13.3	3
		2 MYSTACIDES	20	0	0	6.7	11.5	6.7	3
		4 ANTHOMYIID	0	40	0	13.3	23.1	13.3	3
		4 CORYNONEUR	0	0	200	66.7	115.5	66.7	3
		4 CRYPTOCHIR	40	0	0	13.3	23.1	13.3	3
		4 DICROTENDI	0	0	540	180.0	311.8	180.0	3
		4 GLYPTOTEND	0	0	280	93.3	161.7	93.3	3
		4 LARSIA	0	0	600	200.0	346.4	200.0	3
		4 MICROTENDI	0	0	20	6.7	11.5	6.7	3
		4 MONODIAMES	20	0	0	6.7	11.5	6.7	3
		4 PARATANYTA	1800	0	0	600.0	1039.2	600.0	3
		4 PSEUDOCHIR	40	0	0	13.3	23.1	13.3	3
		4 STICTOCHIR	440	0	0	146.7	254.0	146.7	3
		4 UNKN. LARV	80	0	0	26.7	46.2	26.7	3
		5 ENALLAGMA	20	0	0	6.7	11.5	6.7	3
		8 CORIXIDAE	20	0	0	6.7	11.5	6.7	3
		8 SIGARA	0	20	0	6.7	11.5	6.7	3
		12 ASELLUS	0	0	60	20.0	34.6	20.0	3
		12 LIRCEUS	0	0	60	20.0	34.6	20.0	3
		13 GAMMARUS	80	60	220	120.0	87.2	50.3	3
		13 HYALELLA A	280	60	160	166.7	110.2	63.6	3
		15 HYDRACARIN	20	0	0	6.7	11.5	6.7	3
		16 PHYSA INTE	0	0	20	6.7	11.5	6.7	3
		16 PROMENETUS	0	0	20	6.7	11.5	6.7	3
		17 SPHAERIUM	40	0	0	13.3	23.1	13.3	3
		19 OLIGOCHAET	1000	0	0	333.3	577.4	333.3	3
		21 NEMATODA	0	200	0	66.7	115.5	66.7	3
		23 OSTRACODA	0	0	200	66.7	115.5	66.7	3
		24 HIRUDINEA	0	0	20	6.7	11.5	6.7	3
		27 POLYCHAETA	400	0	0	133.3	230.9	133.3	3

Grand Sum = 7180 Mean = 2393.3 Std.Dev. = 2010.0 Std.Err = 1160.5

GEAR : GERKING

DATE	STA/SITE		TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/22/82	7/A	4	DICROTENDI	800	0	0	266.7	461.9	266.7	3
		4	EMPIDIDAE	200	0	0	66.7	115.5	66.7	3
		4	LARSIA	200	0	200	133.3	115.5	66.7	3
		4	ORTHOCLADI	2200	3400	2020	2540.0	750.2	433.1	3
		4	PARATANYTA	2060	0	0	686.7	1189.3	686.7	3
		4	PROCLADIUS	0	0	200	66.7	115.5	66.7	3
		4	PSECTROCLA	0	0	1200	400.0	692.8	400.0	3
		8	CORIXIDAE	0	0	20	6.7	11.5	6.7	3
		13	GAMMARUS	0	20	0	6.7	11.5	6.7	3
		13	HYALELLA A	0	20	0	6.7	11.5	6.7	3
		15	HYDRACARIN	20	0	0	6.7	11.5	6.7	3
		16	FERRISIA	20	40	0	20.0	20.0	11.5	3
		16	PHYSA	0	0	20	6.7	11.5	6.7	3
		19	OLIGOCHAET	11900	5000	4620	7173.3	4097.8	2365.9	3
		26	HYDRA	400	0	0	133.3	230.9	133.3	3
		Grand Sum =		34560	Mean =	11520.0	Std.Dev. =	5439.6	Std.Err =	3140.5
	7/B	1	BAETIS	20	0	20	13.3	11.5	6.7	3
		3	GYRINUS	0	0	40	13.3	23.1	13.3	3
		4	LARSIA	200	0	0	66.7	115.5	66.7	3
		4	RHEOTANYTA	0	0	400	133.3	230.9	133.3	3
		4	TANYTARSUS	200	200	200	200.0	0.0	0.0	3
		12	ASELLUS	0	0	20	6.7	11.5	6.7	3
		12	LIRCEUS	0	120	40	53.3	61.1	35.3	3
		13	GAMMARUS	60	0	0	20.0	34.6	20.0	3
		13	HYALELLA A	480	200	200	293.3	161.7	93.3	3
		16	FERRISIA	80	0	20	33.3	41.6	24.0	3
		16	GYRAULUS	20	0	0	6.7	11.5	6.7	3
		16	PHYSA	0	0	20	6.7	11.5	6.7	3
		16	VALVATA	20	0	0	6.7	11.5	6.7	3
		19	OLIGOCHAET	200	0	400	200.0	200.0	115.5	3
		Grand Sum =		3160	Mean =	1053.3	Std.Dev. =	463.6	Std.Err =	267.7

GEAR : GERKING

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/23/82	6/A	1 BAETIDAE	0	0	200	66.7	115.5	66.7	3
		2 POLYCENTRO	0	0	200	66.7	115.5	66.7	3
		4 LARSIA	820	0	0	273.3	473.4	273.3	3
		4 ORTHOCLADI	800	0	1200	666.7	611.0	352.8	3
		4 PSECTROCLA	0	0	600	200.0	346.4	200.0	3
		4 RHEOTANYTA	0	600	200	266.7	305.5	176.4	3
		6 ISOPERLA	40	0	0	13.3	23.1	13.3	3
		13 GAMMARUS	0	20	0	6.7	11.5	6.7	3
		13 HYALELLA A	0	20	520	180.0	294.6	170.1	3
		16 FERRISIA	20	120	100	80.0	52.9	30.6	3
		16 PHYSA	40	20	0	20.0	20.0	11.5	3
		19 OLIGOCHAET	2000	600	400	1000.0	871.8	503.3	3
		Grand Sum = 8520	Mean = 2840.0		Std.Dev. = 1273.3		Std.Err = 735.1		
	6/6	1 BAETIS	20	0	0	10.0	14.1	10.0	2
		1 EPHEMERELL	20	20	0	20.0	0.0	0.0	2
		1 STENONEMA	20	0	0	10.0	14.1	10.0	2
		4 LARSIA	0	400	0	200.0	282.8	200.0	2
		4 ORTHOCLADI	0	1000	0	500.0	707.1	500.0	2
		4 PARATANYTA	0	200	0	100.0	141.4	100.0	2
		4 PSECTROCLA	0	600	0	300.0	424.3	300.0	2
		4 TANYTARSUS	600	0	0	300.0	424.3	300.0	2
		8 CORIXIDAE	20	40	0	30.0	14.1	10.0	2
		10 LEP. LARVA	20	0	0	10.0	14.1	10.0	2
		13 GAMMARUS	0	40	0	20.0	28.3	20.0	2
		13 HYALELLA A	20	240	0	130.0	155.6	110.0	2
		15 HYDRACARIN	20	0	0	10.0	14.1	10.0	2
		19 OLIGOCHAET	1220	1240	0	1230.0	14.1	10.0	2
		Grand Sum = 5740	Mean = 2870.0		Std.Dev. = 1286.9		Std.Err = 910.0		

GEAR : GERKING

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/24/82	5/A	1 BAETIS	20	0	0	6.7	11.5	6.7	3
		4 DICROTENDI	0	0	2400	800.0	1385.6	800.0	3
		4 EPHYDRIDAE	20	0	0	6.7	11.5	6.7	3
		4 LARSIA	400	0	200	200.0	200.0	115.5	3
		4 PARATANYTA	400	420	400	406.7	11.5	6.7	3
		4 PSECTROCLA	1400	800	600	933.3	416.3	240.4	3
		4 STENOCHIRO	20	0	0	6.7	11.5	6.7	3
		4 TANYTARSUS	1000	600	0	533.3	503.3	290.6	3
		8 CORIXIDAE	20	0	20	13.3	11.5	6.7	3
		12 ISOPODA	200	0	0	66.7	115.5	66.7	3
		12 LIRCEUS	0	0	220	73.3	127.0	73.3	3
		13 GAMMARUS	40	60	40	46.7	11.5	6.7	3
		13 HYALELLA A	20	20	20	20.0	0.0	0.0	3
		16 FERRISIA	0	20	20	13.3	11.5	6.7	3
		16 GYRAULUS	40	20	0	20.0	20.0	11.5	3
		19 OLIGOCHAET	5300	2840	11340	6493.3	4373.8	2525.2	3
		26 HYDRA	200	400	800	466.7	305.5	176.4	3
		Grand Sum = 30320	Mean = 10106.7		Std.Dev. = 5512.2		Std.Err = 3182.5		
	5/6	4 DICROTENDI	640	620	0	420.0	363.9	210.1	3
		4 LARSIA	0	1200	0	400.0	692.8	400.0	3
		4 PARATANYTA	0	400	0	133.3	230.9	133.3	3
		4 POLYPEDILU	0	800	0	266.7	461.9	266.7	3
		4 POTTHASTIA	0	600	0	200.0	346.4	200.0	3
		4 PSECTROCLA	0	0	2000	666.7	1154.7	666.7	3
		4 STICTOCHIR	0	420	0	140.0	242.5	140.0	3
		4 TANYTARSUS	0	0	1600	533.3	923.8	533.3	3
		8 CORIXIDAE	20	0	0	6.7	11.5	6.7	3
		13 HYALELLA A	20	400	0	140.0	225.4	130.1	3
		16 FERRISIA	20	0	0	6.7	11.5	6.7	3
		16 GYRAULUS	20	0	0	6.7	11.5	6.7	3
		19 OLIGOCHAET	0	800	400	400.0	400.0	230.9	3
		27 POLYCHAETA	200	0	0	66.7	115.5	66.7	3
		29 UNKNOWN	0	400	200	200.0	200.0	115.5	3
		Grand Sum = 10760	Mean = 3586.7		Std.Dev. = 2419.0		Std.Err = 1396.6		

GEAR : GERKING

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/25/82	3/A	1 CAENIS	0	0	20	6.7	11.5	6.7	3
		1 LEPTOPHLEB	0	20	320	113.3	179.3	103.5	3
		2 PHRYGANEA	0	20	0	6.7	11.5	6.7	3
		2 POLYCENTRO	0	20	0	6.7	11.5	6.7	3
		3 HALIPLU AD	0	20	0	6.7	11.5	6.7	3
		4 ABLABESMYI	0	0	40	13.3	23.1	13.3	3
		4 CERATOPOGO	400	20	20	146.7	219.4	126.7	3
		4 CHRYSOPS	0	0	20	6.7	11.5	6.7	3
		4 CORYNONEUR	400	0	200	200.0	200.0	115.5	3
		4 CRYPTOCHIR	0	0	80	26.7	46.2	26.7	3
		4 CRYPTOTEND	600	0	0	200.0	346.4	200.0	3
		4 DICROTENDI	200	140	0	113.3	102.6	59.3	3
		4 ENDOCHIRON	0	0	300	100.0	173.2	100.0	3
		4 LARSIA	800	0	200	333.3	416.3	240.4	3
		4 PARATANYTA	0	220	0	73.3	127.0	73.3	3
		4 POLYPEDILU	2400	0	1060	1153.3	1202.7	694.4	3
		4 PROCLADIUS	1000	20	20	346.7	565.8	326.7	3
		4 PSECTROCLA	400	0	0	133.3	230.9	133.3	3
		4 TABANIDAE	0	20	0	6.7	11.5	6.7	3
		4 TANYTARSUS	3000	0	760	1253.3	1559.7	900.5	3
		4 XENOCHIRON	0	0	160	53.3	92.4	53.3	3
		12 ASELLUS	0	80	40	40.0	40.0	23.1	3
		13 GAMMARUS	0	0	60	20.0	34.6	20.0	3
		13 HYALELLA A	0	280	100	126.7	141.9	81.9	3
		16 GYRAULUS	0	0	20	6.7	11.5	6.7	3
		16 PHYSA	0	0	40	13.3	23.1	13.3	3
		17 PISIDIUM	0	0	60	20.0	34.6	20.0	3
		17 SPHAERIUM	0	0	20	6.7	11.5	6.7	3
		19 OLIGOCHAET	1400	20	0	473.3	802.6	463.4	3
		21 NEMATODA	0	200	0	66.7	115.5	66.7	3

Grand Sum = 15220 Mean = 5073.3 Std.Dev. = 4941.8 Std.Err = 2853.1

GEAR : GERKING

DATE	STA/SITE		TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
11/01/82	4/A	1	CAENIS	200	0	0	66.7	115.5	66.7	3
		2	FABRIA	20	0	40	20.0	20.0	11.5	3
		2	POLYCENTRO	0	0	20	6.7	11.5	6.7	3
		4	CERATOPOGO	20	0	0	6.7	11.5	6.7	3
		4	CORYNONEUR	400	0	200	200.0	200.0	115.5	3
		4	DICROTENDI	200	0	440	213.3	220.3	127.2	3
		4	EMPIDIDAE	20	0	0	6.7	11.5	6.7	3
		4	ENDOCHIRON	520	20	0	180.0	294.6	170.1	3
		4	LARSIA	200	0	1200	466.7	642.9	371.2	3
		4	LAUTERBORN	400	0	400	266.7	230.9	133.3	3
		4	POLYPEDILU	0	220	0	73.3	127.0	73.3	3
		4	PROCLADIUS	0	0	200	66.7	115.5	66.7	3
		4	PSEUDOCHIR	720	60	0	260.0	399.5	230.7	3
		4	TANYTARSUS	0	200	0	66.7	115.5	66.7	3
		5	AESCHNA	0	0	20	6.7	11.5	6.7	3
		12	ASELLUS	60	20	0	26.7	30.6	17.6	3
		13	GAMMARUS	80	0	20	33.3	41.6	24.0	3
		16	PHYSA	0	20	20	13.3	11.5	6.7	3
		19	OLIGOCHAET	240	200	400	280.0	105.8	61.1	3
		24	HIRUDINEA	0	20	20	13.3	11.5	6.7	3
		Grand Sum =		6820	Mean =	2273.3	Std.Dev. =	1311.5	Std.Err =	757.2
	4/B	1	CAENIS	20	0	20	13.3	11.5	6.7	3
		1	HEXAGENIA	0	0	20	6.7	11.5	6.7	3
		1	LEPTOPHLEB	200	140	440	260.0	158.7	91.7	3
		1	PARALEPTOP	40	0	20	20.0	20.0	11.5	3
		2	AGRYPNIA	0	0	20	6.7	11.5	6.7	3
		4	CHIRONOMID	0	0	1260	420.0	727.5	420.0	3
		4	CRYPTOCHIR	0	20	0	6.7	11.5	6.7	3
		4	EMPIDIDAE	100	0	0	33.3	57.7	33.3	3
		4	LARSIA	40	0	0	13.3	23.1	13.3	3
		4	POLYPEDILU	220	20	0	80.0	121.7	70.2	3
		5	COENAGRION	20	0	0	6.7	11.5	6.7	3
		5	ENALLAGMA	0	0	40	13.3	23.1	13.3	3
		8	CORIXIDAE	20	0	0	6.7	11.5	6.7	3
		8	SIGARA	0	0	40	13.3	23.1	13.3	3
		13	HYALELLA A	0	60	20	26.7	30.6	17.6	3
		16	GYRAULUS	20	0	0	6.7	11.5	6.7	3
		16	PHYSA	0	0	20	6.7	11.5	6.7	3
		19	OLIGOCHAET	820	20	0	280.0	467.8	270.1	3
		Grand Sum =		3660	Mean =	1220.0	Std.Dev. =	855.1	Std.Err =	493.7

GEAR : GERKING

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
11/09/82	1/A	1 LEPTOPHLEB	100	0	240	113.3	120.6	69.6	3
		2 POLYCENTRO	0	20	0	6.7	11.5	6.7	3
		4 CERATOPOGO	0	200	0	66.7	115.5	66.7	3
		4 CHIR. PUPA	0	0	200	66.7	115.5	66.7	3
		4 LARSIA	0	0	220	73.3	127.0	73.3	3
		4 PARATANYTA	200	0	1000	400.0	529.2	305.5	3
		4 POLYPEDILU	0	0	400	133.3	230.9	133.3	3
		4 PSECTROCLA	0	200	0	66.7	115.5	66.7	3
		4 PSEUDOCHIR	20	0	0	6.7	11.5	6.7	3
		4 THIENEMANN	0	420	0	140.0	242.5	140.0	3
		10 BELLURA	0	20	0	6.7	11.5	6.7	3
		13 GAMMARUS	60	20	20	33.3	23.1	13.3	3
		13 HYALELLA A	0	0	20	6.7	11.5	6.7	3
		19 OLIGOCHAET	220	0	400	206.7	200.3	115.7	3

Grand Sum = 3980 Mean = 1326.7 Std.Dev. = 1025.7 Std.Err = 592.2

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
04/12/83	2/B	1 CAENIS	21	21	0	14.0	12.1	7.0	3
		1 EPHEMERA	105	210	21	112.0	94.7	54.7	3
		1 HEXAGENIA	42	63	42	49.0	12.1	7.0	3
		2 LEPIDOSTOM	63	42	63	56.0	12.1	7.0	3
		2 MOLANNA	0	42	105	49.0	52.9	30.5	3
		2 MYSTACIDES	0	0	42	14.0	24.2	14.0	3
		2 OECETIS	0	0	42	14.0	24.2	14.0	3
		2 POLYCENTRO	21	21	0	14.0	12.1	7.0	3
		2 TRIAENODES	0	42	21	21.0	21.0	12.1	3
		4 CERATOPOGO	0	210	273	161.0	142.9	82.5	3
		4 CHIR. PUPA	0	21	0	7.0	12.1	7.0	3
		4 CHIRONOMID	5481	14238	5019	8246.0	5194.4	2999.0	3
		5 ENALLAGMA	0	0	21	7.0	12.1	7.0	3
		8 CORIXIDAE	0	21	21	14.0	12.1	7.0	3
		12 ASELLUS	0	21	126	49.0	67.5	39.0	3
		12 LIRCEUS	21	189	1050	420.0	552.0	318.7	3
		13 GAMMARUS	168	168	693	343.0	303.1	175.0	3
		13 HYALELLA A	189	756	1008	651.0	419.5	242.2	3
		15 HYDRACARIN	42	105	84	77.0	32.1	18.5	3
		16 CAMPELOMA	42	0	378	140.0	207.2	119.6	3
		16 GYRAULUS	21	0	0	7.0	12.1	7.0	3
		16 PHYSA	0	0	21	7.0	12.1	7.0	3
		17 PISIDIUM	21	0	84	35.0	43.7	25.2	3
		19 OLIGOCHAET	5859	4641	1554	4018.0	2219.1	1281.2	3
		20 TURBELLARI	21	0	42	21.0	21.0	12.1	3
		26 HYDRA	210	0	0	70.0	121.2	70.0	3
		27 POLYCHAETA	1260	210	399	623.0	559.7	323.1	3
		Grand Sum = 45717	Mean = 15239.0			Std.Dev. = 5158.4		Std.Err = 2978.2	
	2/C	1 CAENIS	0	21	0	10.5	14.8	10.5	2
		1 EPHEMERA	399	273	0	336.0	89.1	63.0	2
		1 HEXAGENIA	252	126	0	189.0	89.1	63.0	2
		2 LEPIDOSTOM	21	63	0	42.0	29.7	21.0	2
		2 MOLANNA	21	42	0	31.5	14.8	10.5	2
		2 MYSTACIDES	0	42	0	21.0	29.7	21.0	2
		2 POLYCENTRO	63	42	0	52.5	14.8	10.5	2
		2 TRIAENODES	0	63	0	31.5	44.5	31.5	2
		3 HALIPLUS	21	0	0	10.5	14.8	10.5	2
		4 CERATOPOGO	441	525	0	483.0	59.4	42.0	2
		4 CHIRONOMID	12159	20202	0	16180.5	5687.3	4021.5	2
		12 ASELLUS	21	0	0	10.5	14.8	10.5	2
		12 LIRCEUS	0	840	0	420.0	594.0	420.0	2

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
04/12/83	2/C	13 GAMMARUS	189	147	0	168.0	29.7	21.0	2
		13 HYALELLA A	0	315	0	157.5	222.7	157.5	2
		15 HYDRACARIN	21	42	0	31.5	14.8	10.5	2
		16 CAMPELOMA	21	21	0	21.0	0.0	0.0	2
		16 HELISOMA	0	42	0	21.0	29.7	21.0	2
		16 STAGNICOLA	0	21	0	10.5	14.8	10.5	2
		17 SPHAERIUM	42	0	0	21.0	29.7	21.0	2
		19 OLIGOCHAET	1071	462	0	766.5	430.6	304.5	2
		27 POLYCHAETA	210	0	0	105.0	148.5	105.0	2
		Grand Sum = 38241	Mean = 19120.5			Std.Dev. = 5895.1	Std.Err = 4168.5		
	2/D	4 CHIR. PUPA	0	63	84	73.5	14.8	10.5	2
		4 CHIRONOMID	0	0	273	136.5	193.0	136.5	2
		13 HYALELLA A	0	21	21	21.0	0.0	0.0	2
		19 OLIGOCHAET	0	231	588	409.5	252.4	178.5	2
		Grand Sum = 1281	Mean = 640.5			Std.Dev. = 460.3	Std.Err = 325.5		
	2/E	1 EPHEMERA	105	0	42	49.0	52.8	30.5	3
		1 HEXAGENIA	126	294	21	147.0	137.7	79.5	3
		1 SIPHLOPLEC	0	0	21	7.0	12.1	7.0	3
		2 MYSTACIDES	42	0	42	28.0	24.2	14.0	3
		2 PHYLOCENTR	0	21	0	7.0	12.1	7.0	3
		2 POLYCENTRO	21	0	21	14.0	12.1	7.0	3
		4 CERATOPOGO	252	21	210	161.0	123.0	71.0	3
		4 CHIRONOMID	15099	7623	5544	9422.0	5025.1	2901.3	3
		4 SIMULIUM	63	42	42	49.0	12.1	7.0	3
		8 CORIXIDAE	21	21	0	14.0	12.1	7.0	3
		10 ACENTROPUS	0	0	21	7.0	12.1	7.0	3
		12 ASELLUS	21	0	21	14.0	12.1	7.0	3
		12 LIRCEUS	105	357	273	245.0	128.3	74.1	3
		13 GAMMARUS	21	0	0	7.0	12.1	7.0	3
		13 HYALELLA A	1071	147	189	469.0	521.8	301.2	3
		15 HYDRACARIN	105	126	42	91.0	43.7	25.2	3
		16 CAMPELOMA	0	21	42	21.0	21.0	12.1	3
		16 HELISOMA	0	0	21	7.0	12.1	7.0	3
		16 PHYSA	42	210	105	119.0	84.9	49.0	3
		17 PISIDIUM	21	42	0	21.0	21.0	12.1	3
		17 SPHAERIUM	21	42	84	49.0	32.1	18.5	3
		19 OLIGOCHAET	2604	672	21	1099.0	1343.4	775.6	3
		24 HIRUDINEA	0	0	441	147.0	254.6	147.0	3
		26 HYDRA	210	21	0	77.0	115.7	66.8	3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
04/12/83	2/E	27 POLYCHAETA	210	0	0	70.0	121.2	70.0	3
		Grand Sum = 37023	Mean = 12341.0		Std.Dev. = 6882.0		Std.Err = 3973.3		
	2/F	1 EPHEMERA	441	189	126	252.0	166.7	96.2	3
		1 HEXAGENIA	588	126	168	294.0	255.5	147.5	3
		2 AGRYPNIA	21	0	0	7.0	12.1	7.0	3
		2 LEPIDOSTOM	21	21	0	14.0	12.1	7.0	3
		2 MYSTACIDES	0	0	21	7.0	12.1	7.0	3
		2 POLYCENTRO	0	441	273	238.0	222.6	128.5	3
		4 CERATOPOGO	0	0	63	21.0	36.4	21.0	3
		4 CHIRONOMID	8148	7434	3633	6405.0	2427.0	1401.2	3
		4 SIMULIUM	0	21	0	7.0	12.1	7.0	3
		8 CORIXIDAE	21	21	42	28.0	12.1	7.0	3
		12 LIRCEUS	84	42	42	56.0	24.2	14.0	3
		13 GAMMARUS	0	42	0	14.0	24.2	14.0	3
		13 HYALELLA A	735	189	609	511.0	285.9	165.1	3
		14 DECAPODA	0	0	21	7.0	12.1	7.0	3
		15 HYDRACARIN	0	63	105	56.0	52.8	30.5	3
		16 CAMPELOMA	189	42	21	84.0	91.5	52.8	3
		16 GYRAULUS	42	21	0	21.0	21.0	12.1	3
		16 PHYSA	0	42	21	21.0	21.0	12.1	3
		17 PISIDIUM	21	0	0	7.0	12.1	7.0	3
		17 SPHAERIUM	105	21	63	63.0	42.0	24.2	3
		19 OLIGOCHAET	2940	1743	1197	1960.0	891.5	514.7	3
		20 TURBELLARI	0	231	0	77.0	133.4	77.0	3
		Grand Sum = 30450	Mean = 10150.0		Std.Dev. = 3506.7		Std.Err = 2024.6		

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
04/20/83	7/B	1 EPHEMERA	21	0	0	7.0	12.1	7.0	3
		2 MYSTACIDES	0	0	21	7.0	12.1	7.0	3
		4 CERATOPOGO	105	63	63	77.0	24.2	14.0	3
		4 CHIR. PUPA	21	21	0	14.0	12.1	7.0	3
		4 CHIRONOMID	2709	1953	2478	2380.0	387.4	223.7	3
		4 SIMULIUM	21	0	0	7.0	12.1	7.0	3
		8 CORIXIDAE	21	0	0	7.0	12.1	7.0	3
		15 HYDRACARIN	231	21	42	98.0	115.7	66.8	3
		16 CAMPELOMA	0	0	21	7.0	12.1	7.0	3
		17 PISIDIUM	84	0	21	35.0	43.7	25.2	3
		17 SPHAERIUM	21	21	0	14.0	12.1	7.0	3
		19 OLIGOCHAET	3969	6300	8820	6363.0	2426.1	1400.7	3
		27 POLYCHAETA	630	0	420	350.0	320.8	185.2	3
		Grand Sum = 28098	Mean = 9366.0		Std.Dev. = 2199.4		Std.Err = 1269.8		
	7/C	1 HEXAGENIA	378	777	609	588.0	200.3	115.7	3
		4 CERATOPOGO	0	273	42	105.0	147.0	84.9	3
		4 CHIR. PUPA	0	0	21	7.0	12.1	7.0	3
		4 CHIRONOMID	1302	2835	1638	1925.0	805.8	465.2	3
		9 SIALIS	21	0	0	7.0	12.1	7.0	3
		13 HYALELLA A	0	21	42	21.0	21.0	12.1	3
		13 PONTOPOREI	21	210	882	371.0	452.5	261.3	3
		15 HYDRACARIN	0	0	63	21.0	36.4	21.0	3
		16 CAMPELOMA	0	0	21	7.0	12.1	7.0	3
		16 VALVATA SI	0	0	21	7.0	12.1	7.0	3
		17 ANODONTA G	0	0	21	7.0	12.1	7.0	3
		17 PISIDIUM	357	168	672	399.0	254.6	147.0	3
		19 OLIGOCHAET	798	3213	1806	1939.0	1213.0	700.3	3
		27 POLYCHAETA	210	1260	210	560.0	606.2	350.0	3
		Grand Sum = 17892	Mean = 5964.0		Std.Dev. = 2835.9		Std.Err = 1637.3		
	7/D	4 CHIRONOMID	861	462	840	721.0	224.5	129.6	3
		15 HYDRACARIN	0	0	231	77.0	133.4	77.0	3
		17 PISIDIUM	21	0	0	7.0	12.1	7.0	3
		17 SPHAERIUM	21	0	0	7.0	12.1	7.0	3
		19 OLIGOCHAET	504	630	1260	798.0	405.0	233.8	3
		27 POLYCHAETA	0	0	2100	700.0	1212.4	700.0	3
		Grand Sum = 6930	Mean = 2310.0		Std.Dev. = 1843.6		Std.Err = 1064.4		
	7/E	1 HEXAGENIA	924	105	84	371.0	479.0	276.6	3

GEAR : PONAR

DATE	STA/SITE		TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
04/20/83	7/E	2	DECETIS	21	0	21	14.0	12.1	7.0	3
		4	CERATOPOGO	21	0	0	7.0	12.1	7.0	3
		4	CHIRONOMID	2289	1386	1092	1589.0	623.8	360.1	3
		13	GAMMARUS	21	0	0	7.0	12.1	7.0	3
		13	HYALELLA A	0	21	0	7.0	12.1	7.0	3
		13	PONTOPOREI	21	924	903	616.0	515.4	297.6	3
		15	HYDRACARIN	0	0	84	28.0	48.5	28.0	3
		16	AMNICOLA	21	0	0	7.0	12.1	7.0	3
		16	CAMPELOMA	21	0	0	7.0	12.1	7.0	3
		16	VALVATA SI	0	21	0	7.0	12.1	7.0	3
		17	PISIDIUM	21	105	189	105.0	84.0	48.5	3
		19	OLIGOCHAET	7959	1617	3318	4298.0	3282.6	1895.2	3
		27	POLYCHAETA	210	0	840	350.0	437.1	252.4	3
		Grand Sum =		22239	Mean =	7413.0	Std.Dev. =	3753.5	Std.Err =	2167.1
	7/F	1	CAENIS	462	1470	441	791.0	588.1	339.6	3
		1	EPHEMERA	21	0	0	7.0	12.1	7.0	3
		1	HEXAGENIA	1449	1323	756	1176.0	369.1	213.1	3
		4	CERATOPOGO	84	42	273	133.0	123.0	71.0	3
		4	CHIRONOMID	6993	13188	14742	11641.0	4099.6	2366.9	3
		8	CORIXIDAE	42	0	21	21.0	21.0	12.1	3
		13	HYALELLA A	0	21	0	7.0	12.1	7.0	3
		15	HYDRACARIN	42	462	336	280.0	215.5	124.4	3
		16	AMNICOLA	0	84	0	28.0	48.5	28.0	3
		16	AMNICOLA L	0	0	42	14.0	24.2	14.0	3
		16	SOMATOGYRU	0	0	84	28.0	48.5	28.0	3
		17	PISIDIUM	0	504	21	175.0	285.1	164.6	3
		17	SPHAERIUM	0	0	21	7.0	12.1	7.0	3
		19	OLIGOCHAET	1008	4326	5061	3465.0	2159.3	1246.7	3
		27	POLYCHAETA	21	2520	210	917.0	1391.5	803.4	3
		Grand Sum =		56070	Mean =	18690.0	Std.Dev. =	7482.7	Std.Err =	4320.2

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
04/21/83	6/B	1 EPHEMERA	21	0	21	14.0	12.1	7.0	3
		2 CERACLEA	21	21	0	14.0	12.1	7.0	3
		2 TRIANODES	21	21	0	14.0	12.1	7.0	3
		4 CERATOPOGO	294	21	21	112.0	157.6	91.0	3
		4 CHIRONOMID	2310	1575	1218	1701.0	556.8	321.5	3
		12 ASELLUS	21	21	0	14.0	12.1	7.0	3
		12 LIRCEUS	126	42	21	63.0	55.6	32.1	3
		13 GAMMARUS	0	0	42	14.0	24.2	14.0	3
		13 HYALELLA A	966	483	273	574.0	355.3	205.2	3
		15 HYDRACARIN	21	0	0	7.0	12.1	7.0	3
		16 AMNICOLA	0	0	21	7.0	12.1	7.0	3
		16 CAMPELOMA	0	84	42	42.0	42.0	24.2	3
		17 PISIDIUM	63	231	126	140.0	84.9	49.0	3
		17 SPHAERIUM	21	0	0	7.0	12.1	7.0	3
		19 OLIGOCHAET	6258	4599	7770	6209.0	1586.1	915.7	3
		20 TURBELLARI	0	21	0	7.0	12.1	7.0	3
		27 POLYCHAETA	840	210	210	420.0	363.7	210.0	3
		Grand Sum = 28077	Mean = 9359.0		Std.Dev. = 1860.5		Std.Err = 1074.2		
	6/C	1 HEXAGENIA	441	189	168	266.0	151.9	87.7	3
		4 CERATOPOGO	21	0	0	7.0	12.1	7.0	3
		4 CHIRONOMID	1743	987	2499	1743.0	756.0	436.5	3
		8 CORIXIDAE	21	0	0	7.0	12.1	7.0	3
		13 HYALELLA A	21	0	0	7.0	12.1	7.0	3
		13 PONTOPOREI	0	0	420	140.0	242.5	140.0	3
		15 HYDRACARIN	0	42	63	35.0	32.1	18.5	3
		17 PISIDIUM	210	63	336	203.0	136.6	78.9	3
		19 OLIGOCHAET	735	1491	3444	1890.0	1397.9	807.1	3
		20 TURBELLARI	21	0	0	7.0	12.1	7.0	3
		27 POLYCHAETA	0	0	210	70.0	121.2	70.0	3
		Grand Sum = 13125	Mean = 4375.0		Std.Dev. = 2404.7		Std.Err = 1388.3		
	6/D	4 CHIRONOMID	210	0	231	147.0	127.7	73.7	3
		19 OLIGOCHAET	210	630	420	420.0	210.9	121.2	3
		Grand Sum = 1701	Mean = 567.0		Std.Dev. = 127.7		Std.Err = 73.7		
	6/E	1 HEXAGENIA	567	147	210	308.0	226.5	130.8	3
		2 OECETIS	0	0	21	7.0	12.1	7.0	3
		4 CERATOPOGO	210	0	0	70.0	121.2	70.0	3
		4 CHIRONOMID	3339	504	4935	2926.0	2244.2	1295.7	3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
04/21/83	6/E	13 PONTOPOREI	0	210	441	217.0	220.6	127.4	3
		15 HYDRACARIN	0	0	42	14.0	24.2	14.0	3
		16 CAMPELOMA	21	105	42	56.0	43.7	25.2	3
		16 VALVATA	0	21	0	7.0	12.1	7.0	3
		16 VALVATA TR	0	0	21	7.0	12.1	7.0	3
		17 PISIDIUM	168	126	42	112.0	64.2	37.0	3
		19 OLIGOCHAET	3675	1239	3612	2842.0	1388.6	801.7	3
		20 TURBELLARI	0	0	42	14.0	24.2	14.0	3
		27 POLYCHAETA	210	210	420	280.0	121.2	70.0	3
		Grand Sum = 20580	Mean = 6860.0		Std.Dev. = 3811.2		Std.Err = 2200.4		
	6/F	1 CAENIS	0	63	210	91.0	107.8	62.2	3
		1 EPHEMERELL	0	21	0	7.0	12.1	7.0	3
		1 HEXAGENIA	2205	1533	3066	2268.0	768.4	443.7	3
		1 LEPTOPHLEB	0	21	0	7.0	12.1	7.0	3
		1 PARACLOEOD	0	21	0	7.0	12.1	7.0	3
		2 CERACLEA	0	21	0	7.0	12.1	7.0	3
		2 MYSTACIDES	21	0	0	7.0	12.1	7.0	3
		2 OECETIS	21	0	42	21.0	21.0	12.1	3
		2 TRIAENODES	0	21	0	7.0	12.1	7.0	3
		4 CERATOPOGO	315	231	210	252.0	55.6	32.1	3
		4 CHIR. PUPA	0	21	0	7.0	12.1	7.0	3
		4 CHIRONOMID	11823	4872	2394	6363.0	4888.1	2822.2	3
		8 CORIXIDAE	0	21	42	21.0	21.0	12.1	3
		9 SIALIS	21	0	0	7.0	12.1	7.0	3
		12 LIRCEUS	0	42	0	14.0	24.2	14.0	3
		13 GAMMARUS	21	0	0	7.0	12.1	7.0	3
		13 HYALELLA A	21	231	0	84.0	127.7	73.7	3
		15 HYDRACARIN	84	189	147	140.0	52.8	30.5	3
		16 CAMPELOMA	21	21	63	35.0	24.2	14.0	3
		16 PHYSA	0	21	0	7.0	12.1	7.0	3
		16 VALVATA SI	0	0	21	7.0	12.1	7.0	3
		17 PISIDIUM	294	903	882	693.0	345.7	199.6	3
		17 SPHAERIUM	0	21	0	7.0	12.1	7.0	3
		19 OLIGOCHAET	4830	7203	2142	4725.0	2532.1	1461.9	3
		20 TURBELLARI	21	84	21	42.0	36.4	21.0	3
		24 HIRUDINEA	0	21	0	7.0	12.1	7.0	3
		Grand Sum = 44520	Mean = 14840.0		Std.Dev. = 5268.3		Std.Err = 3041.7		

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
04/22/83	5/B	1 CAENIS	0	21	0	7.0	12.1	7.0	3
		1 HEXAGENIA	63	945	231	413.0	468.3	270.4	3
		2 OECETIS	210	0	0	70.0	121.2	70.0	3
		4 CERATOPOGO	0	0	210	70.0	121.2	70.0	3
		4 CHIRONOMID	3486	4410	1995	3297.0	1218.5	703.5	3
		15 HYDRACARIN	0	21	42	21.0	21.0	12.1	3
		16 AMNICOLA	42	21	0	21.0	21.0	12.1	3
		16 CAMPELOMA	0	21	42	21.0	21.0	12.1	3
		16 GYRAULUS	0	420	0	140.0	242.5	140.0	3
		16 VALVATA SI	0	0	126	42.0	72.7	42.0	3
		16 VALVATA TR	21	63	21	35.0	24.2	14.0	3
		17 ELLIPTIO C	0	21	0	7.0	12.1	7.0	3
		17 PELECYPODA	0	0	84	28.0	48.5	28.0	3
		17 PISIDIUM	21	84	84	63.0	36.4	21.0	3
		19 OLIGOCHAET	1701	2751	672	1708.0	1039.5	600.2	3
		27 POLYCHAETA	420	420	21	287.0	230.4	133.0	3
		Grand Sum = 18690	Mean = 6230.0		Std.Dev. = 2844.3		Std.Err = 1642.2		
	5/C	1 CAENIS	0	0	21	7.0	12.1	7.0	3
		1 EPHEMERA	0	0	42	14.0	24.2	14.0	3
		1 HEXAGENIA	294	294	693	427.0	230.4	133.0	3
		2 OECETIS	0	210	0	70.0	121.2	70.0	3
		2 PHYLOCENTR	21	0	21	14.0	12.1	7.0	3
		2 TRIAENODES	21	0	0	7.0	12.1	7.0	3
		4 CERATOPOGO	0	42	42	28.0	24.2	14.0	3
		4 CHIRONOMID	6426	8589	3360	6125.0	2627.5	1517.0	3
		8 CORIXIDAE	42	0	0	14.0	24.2	14.0	3
		12 ASELLUS	168	0	0	56.0	97.0	56.0	3
		12 LIRCEUS	0	21	21	14.0	12.1	7.0	3
		13 HYALELLA A	0	882	147	343.0	472.5	272.8	3
		15 HYDRACARIN	42	0	21	21.0	21.0	12.1	3
		16 AMNICOLA	0	105	0	35.0	60.6	35.0	3
		16 CAMPELOMA	210	0	105	105.0	105.0	60.6	3
		16 GYRAULUS	0	0	21	7.0	12.1	7.0	3
		16 PHYSA	21	63	0	28.0	32.1	18.5	3
		16 VALVATA TR	21	0	0	7.0	12.1	7.0	3
		17 PISIDIUM	84	21	63	56.0	32.1	18.5	3
		17 QUADRULA	21	0	0	7.0	12.1	7.0	3
		17 SPHAERIUM	105	0	42	49.0	52.8	30.5	3
		19 OLIGOCHAET	1911	4620	1008	2513.0	1879.7	1085.3	3
		Grand Sum = 29841	Mean = 9947.0		Std.Dev. = 4645.4		Std.Err = 2682.0		

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
04/22/83	5/D	2 POLYCENTRO	0	21	0	7.0	12.1	7.0	3
		4 CHIRONOMID	210	273	714	399.0	274.6	158.5	3
		16 GYRAULUS	0	0	21	7.0	12.1	7.0	3
		17 SPHAERIUM	0	0	21	7.0	12.1	7.0	3
		19 OLIGOCHAET	0	210	0	70.0	121.2	70.0	3
		21 NEMATODA	0	0	105	35.0	60.6	35.0	3
		Grand Sum = 1575	Mean = 525.0		Std.Dev. = 326.0		Std.Err = 188.2		
	5/E	1 HEXAGENIA	693	231	315	413.0	246.1	142.1	3
		2 MOLANNA	0	21	0	7.0	12.1	7.0	3
		4 CERATOPOGO	42	63	0	35.0	32.1	18.5	3
		4 CHIR. PUPA	0	21	0	7.0	12.1	7.0	3
		4 CHIRONOMID	7560	9429	4095	7028.0	2706.5	1562.6	3
		8 CORIXIDAE	0	21	21	14.0	12.1	7.0	3
		12 LIRCEUS	21	0	0	7.0	12.1	7.0	3
		13 HYALELLA A	21	0	0	7.0	12.1	7.0	3
		15 HYDRACARIN	21	0	21	14.0	12.1	7.0	3
		16 AMNICOLA	42	0	0	14.0	24.2	14.0	3
		16 CAMPELOMA	0	105	63	56.0	52.8	30.5	3
		16 FOSSARIA	0	21	0	7.0	12.1	7.0	3
		16 VALVATA SI	21	0	63	28.0	32.1	18.5	3
		16 VALVATA TR	0	84	147	77.0	73.7	42.6	3
		17 PISIDIUM	42	0	0	14.0	24.2	14.0	3
		17 SPHAERIUM	21	21	0	14.0	12.1	7.0	3
		19 OLIGOCHAET	2751	2940	4557	3416.0	992.6	573.1	3
		27 POLYCHAETA	0	0	840	280.0	485.0	280.0	3
		Grand Sum = 34314	Mean = 11438.0		Std.Dev. = 1428.4		Std.Err = 824.7		
	5/F	1 CAENIS	0	0	210	70.0	121.2	70.0	3
		1 EPHEMERA	0	231	21	84.0	127.7	73.7	3
		1 HEXAGENIA	0	42	21	21.0	21.0	12.1	3
		2 MOLANNA	21	21	0	14.0	12.1	7.0	3
		2 MYSTACIDES	21	0	0	7.0	12.1	7.0	3
		2 POLYCENTRO	21	0	21	14.0	12.1	7.0	3
		4 CERATOPOGO	252	231	21	168.0	127.7	73.7	3
		4 CHIR. PUPA	0	21	0	7.0	12.1	7.0	3
		4 CHIRONOMID	5775	6006	2499	4760.0	1961.5	1132.5	3
		12 ASELLUS	42	42	126	70.0	48.5	28.0	3
		12 LIRCEUS	567	567	420	518.0	84.9	49.0	3
		13 GAMMARUS	21	42	126	63.0	55.6	32.1	3
		13 HYALELLA A	1428	1638	1554	1540.0	105.7	61.0	3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
04/22/83	5/F	15 HYDRACARIN	42	84	0	42.0	42.0	24.2	3
		16 AMNICOLA	84	0	0	28.0	48.5	28.0	3
		16 CAMPELOMA	42	105	21	56.0	43.7	25.2	3
		16 GYRAULUS	21	21	0	14.0	12.1	7.0	3
		16 PHYSA	105	42	84	77.0	32.1	18.5	3
		17 PISIDIUM	420	84	147	217.0	178.6	103.1	3
		19 OLIGOCHAET	4326	5447	5082	5285.0	1075.0	620.6	3
		24 HIRUDINEA	21	0	0	7.0	12.1	7.0	3

Grand Sum = 39186 Mean = 13062.0 Std.Dev. = 2638.6 Std.Err = 1523.4

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
04/25/83	3/B	1 CAENIS	0	21	21	21.0	0.0	0.0	2
		1 EPHEMERA	0	63	126	94.5	44.5	31.5	2
		1 HEXAGENIA	0	210	210	210.0	0.0	0.0	2
		2 MYSTACIDES	0	63	0	31.5	44.5	31.5	2
		2 POLYCENTRO	0	21	42	31.5	14.8	10.5	2
		2 TRIAENODES	0	21	0	10.5	14.8	10.5	2
		3 HALIPLUS	0	0	21	10.5	14.8	10.5	2
		4 CERATOPOGO	0	735	630	682.5	74.2	52.5	2
		4 CHIR. PUPA	0	21	42	31.5	14.8	10.5	2
		4 CHIRONOMID	0	13251	16632	14941.5	2390.7	1690.5	2
		8 CORIXIDAE	0	0	42	21.0	29.7	21.0	2
		10 ACENTROPUS	0	63	0	31.5	44.5	31.5	2
		12 LIRCEUS	0	0	315	157.5	222.7	157.5	2
		13 HYALELLA A	0	42	84	63.0	29.7	21.0	2
		15 HYDRACARIN	0	105	0	52.5	74.2	52.5	2
		16 CAMPELOMA	0	168	42	105.0	89.1	63.0	2
		16 HELISOMA	0	21	0	10.5	14.8	10.5	2
		17 PISIDIUM	0	63	0	31.5	44.5	31.5	2
		19 OLIGOCHAET	0	3045	1890	2467.5	816.7	577.5	2
		24 HIRUDINEA	0	210	0	105.0	148.5	105.0	2
		Grand Sum = 38220	Mean = 19110.0			Std.Dev. = 1395.8	Std.Err = 987.0		
	3/C	1 BAETIS	0	0	21	7.0	12.1	7.0	3
		1 EPHEMERA	0	21	0	7.0	12.1	7.0	3
		1 EPHEMERELL	21	0	0	7.0	12.1	7.0	3
		1 HEXAGENIA	231	189	357	259.0	87.4	50.5	3
		2 MYSTACIDES	63	0	0	21.0	36.4	21.0	3
		2 OECETIS	0	0	21	7.0	12.1	7.0	3
		2 POLYCENTRO	21	0	21	14.0	12.1	7.0	3
		2 TRIAENODES	21	0	21	14.0	12.1	7.0	3
		4 CERATOPOGO	1785	693	819	1099.0	597.4	344.9	3
		4 CHIRONOMID	21525	9072	11382	13993.0	6624.4	3824.6	3
		4 SIMULIUM	21	0	0	7.0	12.1	7.0	3
		5 ENALLAGMA	0	0	21	7.0	12.1	7.0	3
		12 ASELLUS	21	0	0	7.0	12.1	7.0	3
		12 LIRCEUS	735	1008	462	735.0	273.0	157.6	3
		13 HYALELLA A	798	126	21	315.0	421.6	243.4	3
		15 HYDRACARIN	84	42	42	56.0	24.2	14.0	3
		16 CAMPELOMA	21	21	21	21.0	0.0	0.0	3
		16 GYRAULUS	21	0	0	7.0	12.1	7.0	3
		16 HELISOMA	0	0	21	7.0	12.1	7.0	3
		16 PHYSA	105	0	21	42.0	55.6	32.1	3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
04/25/83	3/C	16 VALVATA TR	21	21	0	14.0	12.1	7.0	3
		17 PISIDIUM	231	0	0	77.0	133.4	77.0	3
		19 OLIGOCHAET	6048	1344	2856	3416.0	2401.5	1386.5	3
		20 TURBELLARI	63	315	168	182.0	126.6	73.1	3
		27 POLYCHAETA	21	0	0	7.0	12.1	7.0	3
		Grand Sum = 60984	Mean = 20328.0		Std.Dev. = 10130.0		Std.Err = 5848.6		
	3/D	4 CERATOPOGO	0	210	0	70.0	121.2	70.0	3
		4 CHIR. PUPA	168	42	84	98.0	64.2	37.0	3
		4 CHIRONOMID	42	630	1827	833.0	909.6	525.2	3
		4 EMPIDIDAE	42	0	0	14.0	24.2	14.0	3
		15 HYDRACARIN	21	21	21	21.0	0.0	0.0	3
		16 PLEUROCERA	0	0	21	7.0	12.1	7.0	3
		19 OLIGOCHAET	0	294	0	98.0	169.7	98.0	3
		Grand Sum = 3423	Mean = 1141.0		Std.Dev. = 841.4		Std.Err = 485.8		
	3/E	1 HEXAGENIA	0	0	315	157.5	222.7	157.5	2
		1 PARACLOEOD	21	0	21	21.0	0.0	0.0	2
		2 POLYCENTRO	0	0	21	10.5	14.8	10.5	2
		2 TRIANODES	21	0	0	10.5	14.8	10.5	2
		4 CERATOPOGO	273	0	651	462.0	267.3	189.0	2
		4 CHIR. PUPA	0	0	105	52.5	74.2	52.5	2
		4 CHIRONOMID	5628	0	12705	9166.5	5004.2	3538.5	2
		12 ASELLUS	63	0	84	73.5	14.8	10.5	2
		12 LIRCEUS	546	0	420	483.0	89.1	63.0	2
		13 HYALELLA A	588	0	273	430.5	222.7	157.5	2
		15 HYDRACARIN	21	0	21	21.0	0.0	0.0	2
		16 GYRAULUS	21	0	42	31.5	14.8	10.5	2
		16 PHYSA	0	0	84	42.0	59.4	42.0	2
		17 PISIDIUM	21	0	0	10.5	14.8	10.5	2
		19 OLIGOCHAET	1995	0	3360	2677.5	965.2	682.5	2
		20 TURBELLARI	63	0	147	105.0	59.4	42.0	2
		Grand Sum = 27510	Mean = 13755.0		Std.Dev. = 6355.5		Std.Err = 4494.0		
	3/F	1 EPHEMERA	0	42	0	14.0	24.2	14.0	3
		1 HEXAGENIA	504	756	273	511.0	241.6	139.5	3
		1 PARACLOEOD	0	21	0	7.0	12.1	7.0	3
		2 MYSTACIDES	0	0	21	7.0	12.1	7.0	3
		2 OXYETHIRA	21	0	21	14.0	12.1	7.0	3
		2 POLYCENTRO	42	21	0	21.0	21.0	12.1	3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
04/25/83	3/F	2 TRIANODES	0	21	0	7.0	12.1	7.0	3
		4 CERATOPOGO	147	882	42	357.0	457.7	264.2	3
		4 CHIR. PUPA	0	42	0	14.0	24.2	14.0	3
		4 CHIRONOMID	8106	10962	10206	9758.0	1479.8	854.3	3
		4 SIMULIUM	21	0	0	7.0	12.1	7.0	3
		12 ASELLUS	168	42	105	105.0	63.0	36.4	3
		12 LIRCEUS	273	399	210	294.0	96.2	55.6	3
		13 HYALELLA A	756	378	42	392.0	357.2	206.2	3
		15 HYDRACARIN	126	21	42	63.0	55.6	32.1	3
		16 CAMPELOMA	0	0	42	14.0	24.2	14.0	3
		16 GYRAULUS	0	42	0	14.0	24.2	14.0	3
		16 PHYSA	42	0	0	14.0	24.2	14.0	3
		17 PISIDIUM	0	21	0	7.0	12.1	7.0	3
		19 OLIGOCHAET	2121	4620	10227	5656.0	4151.1	2396.6	3
		20 TURBELLARI	168	84	21	91.0	73.7	42.6	3

Grand Sum = 52101 Mean = 17367.0 Std.Dev. = 4461.2 Std.Err = 2575.6

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
04/26/83	1/B	1 CAENIS	0	21	0	7.0	12.1	7.0	3
		1 EPHEMERA	42	0	63	35.0	32.1	18.5	3
		1 HEXAGENIA	357	0	609	322.0	306.0	176.7	3
		2 MOLANNA	21	0	0	7.0	12.1	7.0	3
		2 MYSTACIDES	21	21	0	14.0	12.1	7.0	3
		2 POLYCENTRO	105	42	63	70.0	32.1	18.5	3
		3 BRYCHIUS	21	0	0	7.0	12.1	7.0	3
		4 CERATOPOGO	714	42	462	406.0	339.5	196.0	3
		4 CHIR. PUPA	21	0	0	7.0	12.1	7.0	3
		4 CHIRONOMID	30135	1428	10353	13972.0	14691.7	8482.3	3
		8 CORIXIDAE	0	0	42	14.0	24.2	14.0	3
		13 HYALELLA A	63	273	210	182.0	107.8	62.2	3
		15 HYDRACARIN	84	42	0	42.0	42.0	24.2	3
		16 CAMPELOMA	273	105	294	224.0	103.6	59.8	3
		16 HELISOMA	21	0	0	7.0	12.1	7.0	3
		17 PISIDIUM	42	21	0	21.0	21.0	12.1	3
		17 SPHAERIUM	21	0	21	14.0	12.1	7.0	3
		19 OLIGOCHAET	6006	462	6216	4228.0	3263.1	1884.0	3
		24 PISCICOLA	21	0	0	7.0	12.1	7.0	3
		Grand Sum = 58758	Mean = 19586.0			Std.Dev. = 17788.6		Std.Err = 10270.3	
	1/C	1 BAETIDAE	0	0	21	7.0	12.1	7.0	3
		1 EPHEMERA	21	0	0	7.0	12.1	7.0	3
		4 CERATOPOGO	21	0	0	7.0	12.1	7.0	3
		4 CHIR. PUPA	0	42	4452	1498.0	2558.3	1477.0	3
		4 CHIRONOMID	1617	6531	6741	4963.0	2899.6	1674.1	3
		13 HYALELLA A	63	0	0	21.0	36.4	21.0	3
		15 HYDRACARIN	0	63	147	70.0	73.7	42.6	3
		16 CAMPELOMA	357	210	336	301.0	79.5	45.9	3
		16 FOSSARIA P	0	21	21	14.0	12.1	7.0	3
		16 HELISOMA	21	0	0	7.0	12.1	7.0	3
		16 PLEUROCERA	126	42	84	84.0	42.0	24.2	3
		17 PISIDIUM	42	84	105	77.0	32.1	18.5	3
		19 OLIGOCHAET	1302	1071	357	910.0	492.6	284.4	3
		26 HYDRA	0	0	21	7.0	12.1	7.0	3
		Grand Sum = 23919	Mean = 7973.0			Std.Dev. = 4358.2		Std.Err = 2516.2	
	1/D	4 CHIR. PUPA	0	21	21	14.0	12.1	7.0	3
		4 CHIRONOMID	714	294	1050	686.0	378.8	218.7	3
		13 HYALELLA A	21	0	0	7.0	12.1	7.0	3
		19 OLIGOCHAET	42	21	210	91.0	103.6	59.8	3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
04/26/83	1/D	20 TURBELLARI	0	21	0	7.0	12.1	7.0	3
		Grand Sum = 2415	Mean = 805.0		Std.Dev. = 462.6		Std.Err = 267.1		
	1/E	4 CERATOPOGO	0	84	0	28.0	48.5	28.0	3
		4 CHIRONOMID	1260	7392	924	3192.0	3641.2	2102.2	3
		13 HYALELLA A	0	21	0	7.0	12.1	7.0	3
		13 PONTOPOREI	0	42	0	14.0	24.2	14.0	3
		15 HYDRACARIN	0	126	0	42.0	72.7	42.0	3
		16 CAMPELOMA	21	126	21	56.0	60.6	35.0	3
		16 PLEUROCERA	0	21	0	7.0	12.1	7.0	3
		17 PELECYPODA	0	252	0	84.0	145.5	84.0	3
		17 SPHAERIUM	0	21	0	7.0	12.1	7.0	3
		19 OLIGOCHAET	210	1743	210	721.0	885.1	511.0	3
		Grand Sum = 12474	Mean = 4158.0		Std.Dev. = 4913.2		Std.Err = 2836.7		
	1/F	4 CERATOPOGO	0	0	21	7.0	12.1	7.0	3
		4 CHIR. PUPA	42	0	42	28.0	24.2	14.0	3
		4 CHIRONOMID	2709	8295	6384	5796.0	2839.0	1639.1	3
		4 EMPIDIDAE	21	21	0	14.0	12.1	7.0	3
		13 PONTOPOREI	714	84	21	273.0	383.2	221.2	3
		16 PLEUROCERA	0	42	42	28.0	24.2	14.0	3
		17 PISIDIUM	63	0	84	49.0	43.7	25.2	3
		19 OLIGOCHAET	84	441	714	413.0	315.9	182.4	3
		Grand Sum = 19824	Mean = 6608.0		Std.Dev. = 2694.1		Std.Err = 1555.4		

GEAR : PONAR

DATE	STA/SITE		TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
05/12/93	4/B	4	CHIRONOMID	5355	0	6510	5932.5	816.7	577.5	2
		13	HYALELLA A	21	0	0	10.5	14.8	10.5	2
		15	HYDRACARIN	126	0	147	136.5	14.8	10.5	2
		16	CAMPELOMA	42	0	21	31.5	14.8	10.5	2
		16	GONIOBASIS	0	0	21	10.5	14.8	10.5	2
		16	STAGNICOLA	21	0	0	10.5	14.8	10.5	2
		16	VALVATA TR	0	0	21	10.5	14.8	10.5	2
		17	SPHAERIIDA	42	0	0	21.0	29.7	21.0	2
		19	OLIGOCHAET	5460	0	5460	5460.0	0.0	0.0	2
		Grand Sum =	23247	Mean =	11623.5	Std.Dev. =	787.0	Std.Err =	556.5	
	4/C	1	BAETIS	0	21	0	10.5	14.8	10.5	2
		1	CAENIS	0	210	0	105.0	148.5	105.0	2
		1	EPHEMERA	0	21	0	10.5	14.8	10.5	2
		1	EPHEMERELL	21	0	0	10.5	14.8	10.5	2
		1	HEXAGENIA	231	189	0	210.0	29.7	21.0	2
		2	MYSTACIDES	21	0	0	10.5	14.8	10.5	2
		2	OXYETHIRA	21	63	0	42.0	29.7	21.0	2
		2	PHYLOCENTR	84	84	0	84.0	0.0	0.0	2
		2	POLYCENTRO	63	0	0	31.5	44.5	31.5	2
		2	TRIANODES	42	0	0	21.0	29.7	21.0	2
		4	CERATOPOGO	1092	42	0	567.0	742.5	525.0	2
		4	CHIR. PUPA	0	42	0	21.0	29.7	21.0	2
		4	CHIRONOMID	14343	12180	0	13261.5	1529.5	1081.5	2
		8	CORIXIDAE	147	0	0	73.5	103.9	73.5	2
		12	ASELLUS	126	84	0	105.0	29.7	21.0	2
		12	LIRCEUS	378	126	0	252.0	178.2	126.0	2
		13	GAMMARUS	21	0	0	10.5	14.8	10.5	2
		13	HYALELLA A	378	168	0	273.0	148.5	105.0	2
		16	CAMPELOMA	21	0	0	10.5	14.8	10.5	2
		16	GYRAULUS	147	0	0	73.5	103.9	73.5	2
		16	PHYSA	189	0	0	94.5	133.6	94.5	2
		19	OLIGOCHAET	3906	5733	0	4819.5	1291.9	913.5	2
		27	POLYCHAETA	0	840	0	420.0	594.0	420.0	2
		Grand Sum =	41034	Mean =	20517.0	Std.Dev. =	1009.7	Std.Err =	714.0	
	4/D	1	HEXAGENIA	126	0	882	504.0	534.6	378.0	2
		2	PHYLOCENTR	0	0	21	10.5	14.8	10.5	2
		3	DYTISCIDAE	0	0	21	10.5	14.8	10.5	2
		4	CERATOPOGO	0	0	567	283.5	400.9	283.5	2
		4	CHIR. PUPA	21	0	0	10.5	14.8	10.5	2

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
05/12/83	4/D	4 CHIRONOMID	1134	0	4641	2887.5	2479.8	1753.5	2
		12 LIRCEUS	0	0	42	21.0	29.7	21.0	2
		13 HYALELLA A	0	0	21	10.5	14.8	10.5	2
		15 HYDRACARIN	21	0	42	31.5	14.8	10.5	2
		17 PISIDIUM	0	0	21	10.5	14.8	10.5	2
		19 OLIGOCHAET	5418	0	420	2919.0	3534.1	2499.0	2
		Grand Sum = 13398	Mean = 6699.0		Std.Dev. = 29.8		Std.Err = 21.1		
	4/E	1 BAETIS	0	0	63	31.5	44.5	31.5	2
		1 HEXAGENIA	42	0	126	84.0	59.4	42.0	2
		2 POLYCENTRO	0	0	21	10.5	14.8	10.5	2
		4 CERATOPOGO	21	0	231	126.0	148.5	105.0	2
		4 CHIR. PUPA	42	0	42	42.0	0.0	0.0	2
		4 CHIRONOMID	11886	0	10815	11350.5	757.3	535.5	2
		12 ASELLUS	378	0	126	252.0	178.2	126.0	2
		12 LIRCEUS	63	0	21	42.0	29.7	21.0	2
		13 HYALELLA A	21	0	21	21.0	0.0	0.0	2
		15 HYDRACARIN	63	0	63	63.0	0.0	0.0	2
		16 GYRAULUS	63	0	210	136.5	103.9	73.5	2
		16 PHYSA	105	0	168	136.5	44.5	31.5	2
		17 PISIDIUM	0	0	21	10.5	14.8	10.5	2
		19 OLIGOCHAET	4431	0	2352	3391.5	1470.1	1039.5	2
		20 TURBELLARI	147	0	105	126.0	29.7	21.0	2
		Grand Sum = 31647	Mean = 15823.5		Std.Dev. = 2034.3		Std.Err = 1438.5		
	4/F	1 CAENIS	210	0	0	70.0	121.2	70.0	3
		1 EPHEMERA	21	63	63	49.0	24.2	14.0	3
		2 MYSTACIDES	42	0	0	14.0	24.2	14.0	3
		2 OECETIS	0	0	42	14.0	24.2	14.0	3
		2 POLYCENTRO	0	0	42	14.0	24.2	14.0	3
		4 CERATOPOGO	42	672	630	448.0	352.2	203.4	3
		4 CHIRONOMID	2247	4641	4872	3920.0	1453.5	839.2	3
		8 CORIXIDAE	21	0	21	14.0	12.1	7.0	3
		12 LIRCEUS	0	0	672	224.0	388.0	224.0	3
		13 GAMMARUS	0	0	126	42.0	72.7	42.0	3
		13 HYALELLA A	147	21	294	154.0	136.6	78.9	3
		15 HYDRACARIN	231	105	126	154.0	67.5	39.0	3
		16 AMNICOLA	42	21	0	21.0	21.0	12.1	3
		16 CAMPELOMA	0	273	21	98.0	151.9	87.7	3
		16 GYRAULUS	0	0	21	7.0	12.1	7.0	3
		16 PLEUROCERA	231	168	0	133.0	119.4	68.9	3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
05/12/83	4/F	17 PISIDIUM	0	42	42	28.0	24.2	14.0	3
		19 OLIGOCHAET	840	1134	4368	2114.0	1957.5	1130.2	3
		20 TURBELLARI	0	0	42	14.0	24.2	14.0	3

Grand Sum = 22596 Mean = 7532.0 Std.Dev. = 3669.7 Std.Err = 2118.7

GEAR : ECKMAN

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
04/12/83	2/A	1 CAENIS	430	1935	0	1182.5	1064.2	752.5	2
		2 AGRYPNIA	0	86	0	43.0	60.8	43.0	2
		2 BANKSIOLA	0	43	0	21.5	30.4	21.5	2
		2 LIMNEPHILI	43	0	0	21.5	30.4	21.5	2
		2 POLYCENTRO	215	215	0	215.0	0.0	0.0	2
		4 CERATOPOGO	86	86	0	86.0	0.0	0.0	2
		4 CHIRONOMID	10922	19436	0	15179.0	6020.3	4257.0	2
		5 COENAGRION	0	43	0	21.5	30.4	21.5	2
		12 ASELLUS	43	43	0	43.0	0.0	0.0	2
		16 GYRAULUS	129	0	0	64.5	91.2	64.5	2
		16 PSEUDOSUCC	43	0	0	21.5	30.4	21.5	2
		16 STAGNICOLA	0	43	0	21.5	30.4	21.5	2
		17 PISIDIUM	172	0	0	86.0	121.6	86.0	2
		17 SPHAERIUM	129	0	0	64.5	91.2	64.5	2
		19 OLIGOCHAET	1548	3311	0	2429.5	1246.6	881.5	2
		24 HIRUDINEA	43	86	0	64.5	30.4	21.5	2

Grand Sum = 39130 Mean = 19565.0 Std.Dev. = 8148.7 Std.Err = 5762.0

GEAR : ECKMAN

DATE	STA/SITE		TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
04/20/83	7/A	1	CAENIS	559	258	0	272.3	279.8	161.5	3
		4	CERATOPOGO	0	86	0	28.7	49.7	28.7	3
		4	CHIR. PUPA	0	43	0	14.3	24.8	14.3	3
		4	CHIRONOMID	344	258	1161	587.7	498.4	287.7	3
		4	EMPIDIDAE	0	43	0	14.3	24.8	14.3	3
		12	LIRCEUS	86	0	0	28.7	49.7	28.7	3
		13	HYALELLA A	86	0	0	28.7	49.7	28.7	3
		15	HYDRACARIN	86	0	43	43.0	43.0	24.8	3
		17	PISIDIUM	0	43	86	43.0	43.0	24.8	3
		19	OLIGOCHAET	559	1419	1849	1275.7	656.8	379.2	3
		27	POLYCHAETA	430	430	860	573.3	248.3	143.3	3
		Grand Sum =		8729	Mean =	2909.7	Std.Dev. =	967.6	Std.Err =	558.6
	7/6	4	CERATOPOGO	0	43	0	14.3	24.8	14.3	3
		4	CHIR. PUPA	0	0	43	14.3	24.8	14.3	3
		4	CHIRONOMID	1591	2193	602	1462.0	803.3	463.8	3
		13	HYALELLA A	0	0	301	100.3	173.8	100.3	3
		17	PISIDIUM	86	129	43	86.0	43.0	24.8	3
		19	OLIGOCHAET	2236	2150	473	1619.7	994.0	573.9	3
		Grand Sum =		9890	Mean =	3296.7	Std.Dev. =	1617.1	Std.Err =	933.6

GEAR : ECKMAN

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
04/21/83	6/A	1 CAENIS	43	0	0	14.3	24.8	14.3	3
		4 CHIRONOMID	602	43	559	401.3	311.1	179.6	3
		13 HYALELLA A	0	43	0	14.3	24.8	14.3	3
		17 PISIDIUM	43	0	43	28.7	24.8	14.3	3
		19 OLIGOCHAET	86	430	0	172.0	227.5	131.4	3
		Grand Sum = 1892	Mean = 630.7		Std.Dev. = 131.4		Std.Err = 75.8		
	6/G	1 CAENIS	43	0	0	14.3	24.8	14.3	3
		1 HEXAGENIA	172	0	473	215.0	239.4	138.2	3
		2 OECETIS	0	0	43	14.3	24.8	14.3	3
		4 CERATOPOGO	86	0	0	28.7	49.7	28.7	3
		4 CHIR. PUPA	43	0	0	14.3	24.8	14.3	3
		4 CHIRON !ID	1247	430	2709	1462.0	1154.6	666.6	3
		8 CORIXIDAE	43	0	0	14.3	24.8	14.3	3
		13 HYALELLA A	172	0	0	57.3	99.3	57.3	3
		17 PISIDIUM	129	0	86	71.7	65.7	37.9	3
		19 OLIGOCHAET	2752	0	2365	1705.7	1489.8	860.1	3
		Grand Sum = 10793	Mean = 3597.7		Std.Dev. = 2787.5		Std.Err = 1609.4		

GEAR : ECKMAN

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
04/22/83	5/A	1 EPHEMERA	43	0	0	14.3	24.8	14.3	3
		2 MYSTACIDES	0	43	0	14.3	24.8	14.3	3
		4 CHIRONOMID	0	43	0	14.3	24.8	14.3	3
		12 ASELLUS	0	0	86	28.7	49.7	28.7	3
		13 HYALELLA A	43	43	0	28.7	24.8	14.3	3
		15 HYDRACARIN	0	43	0	14.3	24.8	14.3	3
		16 GYRAULUS	0	43	0	14.3	24.8	14.3	3
		17 PISIDIUM	0	172	0	57.3	99.3	57.3	3
		19 OLIGOCHAET	430	1548	1290	1089.3	585.4	338.0	3
		27 POLYCHAETA	2150	4300	13760	6736.7	6176.7	3566.1	3
		Grand Sum = 24037	Mean = 8012.3		Std.Dev. = 6422.2		Std.Err = 3707.8		
	5/6	1 CAENIS	86	860	430	458.7	387.8	223.9	3
		2 OECETIS	0	43	0	14.3	24.8	14.3	3
		4 CHIRONOMID	989	2064	1290	1447.7	554.6	320.2	3
		13 HYALELLA A	0	172	43	71.7	89.5	51.7	3
		16 GYRAULUS	0	86	0	28.7	49.7	28.7	3
		17 PISIDIUM	86	0	0	28.7	49.7	28.7	3
		19 OLIGOCHAET	1505	2279	860	1548.0	710.5	410.2	3
		27 POLYCHAETA	0	15050	2580	5876.7	8048.4	4646.7	3
		Grand Sum = 28423	Mean = 9474.3		Std.Dev. = 9678.8		Std.Err = 5588.0		

GEAR : ECKMAN

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
04/25/83	3/A	2 BANKSIOLA	43	0	0	21.5	30.4	21.5	2
		2 POLYCENTRO	43	0	0	21.5	30.4	21.5	2
		4 CERATOPOGO	86	0	645	365.5	395.3	279.5	2
		4 CHIRONOMID	14534	0	10148	12341.0	3101.4	2193.0	2
		4 EMPIDIDAE	86	0	129	107.5	30.4	21.5	2
		12 ASELLUS	86	0	172	129.0	60.8	43.0	2
		13 GAMMARUS	86	0	0	43.0	60.8	43.0	2
		13 HYALELLA A	43	0	43	43.0	0.0	0.0	2
		15 HYDRACARIN	43	0	0	21.5	30.4	21.5	2
		16 STAGNICOLA	0	0	43	21.5	30.4	21.5	2
		19 OLIGOCHAET	86	0	1763	924.5	1185.8	838.5	2
		20 TURBELLARI	43	0	0	21.5	30.4	21.5	2
		24 HIRUDINEA	129	0	0	64.5	91.2	64.5	2

Grand Sum = 28251 Mean = 14125.5 Std.Dev. = 1672.3 Std.Err = 1182.5

GEAR : ECKMAN

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
04/26/83	1/A	2 OECETIS	0	43	0	21.5	30.4	21.5	2
		4 CERATOPOGO	602	43	0	322.5	395.3	279.5	2
		4 CHIRONOMID	645	8987	0	4816.0	5898.7	4171.0	2
		15 HYDRACARIN	0	86	0	43.0	60.8	43.0	2
		19 OLIGOCHAET	559	3096	0	1827.5	1793.9	1268.5	2
		Grand Sum = 14061	Mean = 7030.5		Std.Dev. = 7388.6		Std.Err = 5224.5		

GEAR : ECKMAN

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
05/12/83	4/A	1 CAENIS	430	0	0	143.3	248.3	143.3	3
		2 AGRYPNIA	0	43	0	14.3	24.8	14.3	3
		2 BANKSIOLA	0	43	0	14.3	24.8	14.3	3
		2 POLYCENTRO	0	0	43	14.3	24.8	14.3	3
		3 DONACIA	0	43	0	14.3	24.8	14.3	3
		4 CHIRONOMID	5461	9073	1505	5346.3	3785.3	2185.4	3
		4 DOLICHOPOD	0	43	0	14.3	24.8	14.3	3
		4 EMPIDIDAE	0	0	43	14.3	24.8	14.3	3
		5 ENALLAGMA	0	0	43	14.3	24.8	14.3	3
		5 SOMATOCHLO	0	0	43	14.3	24.8	14.3	3
		12 ASELLUS	86	86	258	143.3	99.3	57.3	3
		13 GAMMARUS	0	43	0	14.3	24.8	14.3	3
		13 HYALELLA A	559	258	645	487.3	203.2	117.3	3
		15 HYDRACARIN	0	43	0	14.3	24.8	14.3	3
		16 PROMENETUS	0	86	86	57.3	49.7	28.7	3
		17 PISIDIUM	0	43	0	14.3	24.8	14.3	3
		19 OLIGOCHAET	1892	1677	2580	2049.7	471.7	272.3	3
		24 HIRUDINEA	430	0	0	143.3	248.3	143.3	3
		Grand Sum = 25585	Mean = 8528.3		Std.Dev. = 3130.5		Std.Err = 1807.4		
	4/B	1 CAENIS	0	43	0	14.3	24.8	14.3	3
		2 BANKSIOLA	0	0	43	14.3	24.8	14.3	3
		2 POLYCENTRO	0	0	43	14.3	24.8	14.3	3
		3 HALIPLUS	0	43	43	28.7	24.8	14.3	3
		4 CERATOPOGO	215	258	86	186.3	89.5	51.7	3
		4 CHIRONOMID	3268	3827	2924	3339.7	455.7	263.1	3
		4 EMPIDIDAE	0	43	0	14.3	24.8	14.3	3
		13 HYALELLA A	0	215	0	71.7	124.1	71.7	3
		15 HYDRACARIN	0	215	86	100.3	108.2	62.5	3
		16 CAMPELOMA	0	0	43	14.3	24.8	14.3	3
		16 STAGNICOLA	0	0	43	14.3	24.8	14.3	3
		17 PISIDIUM	473	215	129	272.3	179.0	103.4	3
		19 OLIGOCHAET	645	688	645	659.3	24.8	14.3	3
		27 POLYCHAETA	0	0	43	14.3	24.8	14.3	3
		Grand Sum = 14276	Mean = 4758.7		Std.Dev. = 722.5		Std.Err = 417.1		

GEAR : GERKING

DATE	STA/SITE	TAXON	DENSITIES (# / 50. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
04/12/83	2/A	2 GRAMMOTAUL	0	200	0	66.7	115.5	66.7	3
		2 POLYCENTRO	0	0	40	13.3	23.1	13.3	3
		4 CHIRONOMID	300	860	3060	1406.7	1458.9	842.3	3
		5 ENALLAGMA	20	0	0	6.7	11.5	6.7	3
		5 LESTES	0	40	0	13.3	23.1	13.3	3
		8 CORIXIDAE	0	20	0	6.7	11.5	6.7	3
		12 ASELLUS	0	0	20	6.7	11.5	6.7	3
		16 PSEUDOSUCC	0	60	0	20.0	34.6	20.0	3
		17 SPHAERIUM	0	60	0	20.0	34.6	20.0	3
		19 OLIGOCHAET	0	200	200	133.3	115.5	66.7	3

Grand Sum = 5080 Mean = 1693.3 Std.Dev. = 1516.0 Std.Err = 875.2

GEAR : GERKING

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
04/20/83	7/A	1 BAETIDAE	200	0	0	66.7	115.5	66.7	3
		2 POLYCENTRO	0	20	0	6.7	11.5	6.7	3
		4 CERATOPOGO	0	0	200	66.7	115.5	66.7	3
		4 CHIR. PUPA	0	40	0	13.3	23.1	13.3	3
		4 CHIRONOMID	640	4440	1060	2046.7	2083.3	1202.8	3
		4 SCIOMYZIDA	0	100	20	40.0	52.9	30.6	3
		12 ASELLUS	20	60	0	26.7	30.6	17.6	3
		13 HYALELLA A	20	0	0	6.7	11.5	6.7	3
		15 HYDRACARIN	0	220	60	93.3	113.7	65.7	3
		16 FERRISIA	0	20	0	6.7	11.5	6.7	3
		19 OLIGOCHAET	200	800	400	466.7	305.5	176.4	3
		27 POLYCHAETA	0	200	0	66.7	115.5	66.7	3
		Grand Sum = 8720	Mean = 2906.7		Std.Dev. = 2613.2		Std.Err = 1508.7		
	7/6	4 CHIRONOMID	1020	600	1060	893.3	254.8	147.1	3
		16 PHYSA	20	0	0	6.7	11.5	6.7	3
		19 OLIGOCHAET	0	0	620	206.7	358.0	206.7	3
		Grand Sum = 3320	Mean = 1106.7		Std.Dev. = 543.1		Std.Err = 313.5		

GEAR : GERKING

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
04/21/83	6/A	4 CHIRONOMID	200	20	20	80.0	103.9	60.0	3
		4 EMPIDIDAE	0	0	200	66.7	115.5	66.7	3
		13 HYALELLA A	0	0	20	6.7	11.5	6.7	3
		Grand Sum = 460	Mean = 153.3		Std.Dev. = 117.2		Std.Err = 67.7		
	6/B	4 CHIRONOMID	200	220	0	140.0	121.7	70.2	3
		8 CORIXIDAE	40	0	100	46.7	50.3	29.1	3
		10 LEPIDOPTER	20	0	0	6.7	11.5	6.7	3
		13 HYALELLA A	40	40	0	26.7	23.1	13.3	3
		19 OLIGOCHAET	400	200	200	266.7	115.5	66.7	3
		Grand Sum = 1460	Mean = 486.7		Std.Dev. = 201.3		Std.Err = 116.2		

GEAR : GERKING

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
04/22/83	5/A	4 CHIRONOMID	420	600	1000	673.3	296.9	171.4	3
		8 CORIXIDAE	0	20	0	6.7	11.5	6.7	3
		13 ALLOCRANGO	40	0	0	13.3	23.1	13.3	3
		13 HYALELLA A	20	0	0	6.7	11.5	6.7	3
		15 HYDRACARIN	0	200	0	66.7	115.5	66.7	3
		16 PHYSA	0	0	20	6.7	11.5	6.7	3
		19 OLIGOCHAET	400	400	600	466.7	115.5	66.7	3
		Grand Sum = 3720	Mean = 1240.0		Std.Dev. = 370.4		Std.Err = 213.9		
	5/6	4 CHIRONOMID	2200	1020	600	1273.3	829.5	478.9	3
		8 CORIXIDAE	0	0	40	13.3	23.1	13.3	3
		13 HYALELLA A	80	0	0	26.7	46.2	26.7	3
		16 GYRAULUS	40	0	0	13.3	23.1	13.3	3
		16 PHYSA	0	0	20	6.7	11.5	6.7	3
		19 OLIGOCHAET	600	0	200	266.7	305.5	176.4	3
		Grand Sum = 4800	Mean = 1600.0		Std.Dev. = 1145.9		Std.Err = 661.6		

GEAR : GERKING

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
04/25/93	3/A	1 CAENIS	40	0	0	13.3	23.1	13.3	3
		1 HEXAGENIA	0	0	20	6.7	11.5	6.7	3
		1 LEPTOPHLEB	20	0	0	6.7	11.5	6.7	3
		2 AGRYPNIA	20	0	0	6.7	11.5	6.7	3
		2 BANKSIOLA	100	0	0	33.3	57.7	33.3	3
		2 HYDROPTILA	40	0	0	13.3	23.1	13.3	3
		2 POLYCENTRO	40	0	0	13.3	23.1	13.3	3
		2 TRIANODES	40	0	0	13.3	23.1	13.3	3
		4 CERATOPOGO	40	40	0	26.7	23.1	13.3	3
		4 CHIRONOMID	320	920	420	553.3	321.5	185.6	3
		12 ASELLUS	60	0	0	20.0	34.6	20.0	3
		13 GAMMARUS	80	0	0	26.7	46.2	26.7	3
		13 HYALELLA A	640	40	0	226.7	358.5	207.0	3
		16 GYRAULUS	0	20	0	6.7	11.5	6.7	3
		17 SPHAERIUM	20	0	0	6.7	11.5	6.7	3

Grand Sum = 2920 Mean = 973.3 Std.Dev. = 511.6 Std.Err = 295.4

GEAR : GERKING

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
04/26/83	1/A	4 CERATOPOSO	0	200	0	66.7	115.5	66.7	3
		4 CHIR. PUPA	0	0	20	6.7	11.5	6.7	3
		4 CHIRONOMID	0	3020	600	1206.7	1598.8	923.1	3
		19 OLIGOCHAET	0	200	0	66.7	115.5	66.7	3

Grand Sum = 4040 Mean = 1346.7 Std.Dev. = 1822.1 Std.Err = 1052.0

GEAR : GERKING

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
05/12/83	4/A	2 POLYCENTRO	20	0	0	6.7	11.5	6.7	3
		2 TRIANODES	0	0	20	6.7	11.5	6.7	3
		4 CHIRONOMID	720	120	260	366.7	313.9	181.2	3
		5 ENALLAGMA	20	0	0	6.7	11.5	6.7	3
		12 ASELLUS	0	20	20	13.3	11.5	6.7	3
		12 LIRCEUS	0	0	40	13.3	23.1	13.3	3
		13 GAMMARUS	0	20	0	6.7	11.5	6.7	3
		13 HYALELLA A	0	20	20	13.3	11.5	6.7	3
		19 OLIGOCHAET	0	0	200	66.7	115.5	66.7	3
		20 TURBELLARI	0	40	0	13.3	23.1	13.3	3
		Grand Sum = 1540	Mean = 513.3		Std.Dev. = 273.0		Std.Err = 157.6		
	4/B	4 CERATOPOGO	0	0	20	6.7	11.5	6.7	3
		4 CHIRONOMID	420	0	100	173.3	219.4	126.7	3
		8 CORIXIDAE	0	0	20	6.7	11.5	6.7	3
		16 PHYSA	0	0	20	6.7	11.5	6.7	3
		Grand Sum = 580	Mean = 193.3		Std.Dev. = 212.0		Std.Err = 122.4		

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/05/83	2/B	1 CAENIS	420	0	0	140.0	242.5	140.0	3
		1 EPHEMERA	1302	1113	168	861.0	607.6	350.8	3
		1 EPHEMERELL	0	0	210	70.0	121.2	70.0	3
		1 HEXAGENIA	273	126	735	378.0	317.8	183.5	3
		2 FABRIA	0	0	42	14.0	24.2	14.0	3
		2 LEPIDOSTOM	42	42	63	49.0	12.1	7.0	3
		2 MOLANNA	63	0	0	21.0	36.4	21.0	3
		2 MYSTACIDES	21	63	0	28.0	32.1	18.5	3
		2 OECETIS	0	0	21	7.0	12.1	7.0	3
		2 PHRYGANEA	21	0	0	7.0	12.1	7.0	3
		2 PHYLOCENTR	0	210	0	70.0	121.2	70.0	3
		2 POLYCENTRO	147	63	168	126.0	55.6	32.1	3
		4 CERATOPOGO	0	630	210	280.0	320.8	185.2	3
		4 CHIRONOMID	10647	10500	14175	11774.0	2080.6	1201.3	3
		12 ASELLUS	0	42	0	14.0	24.2	14.0	3
		12 LIRCEUS	294	315	336	315.0	21.0	12.1	3
		13 GAMMARUS	210	21	147	126.0	96.2	55.6	3
		13 HYALELLA A	63	0	42	35.0	32.1	18.5	3
		15 HYDRACARIN	210	0	0	70.0	121.2	70.0	3
		16 AMNICOLA	0	168	84	84.0	84.0	48.5	3
		16 CAMPELOMA	672	378	63	371.0	304.6	175.8	3
		16 FOSSARIA	0	0	21	7.0	12.1	7.0	3
		16 VALVATA TR	0	0	84	28.0	48.5	28.0	3
		17 PISIDIUM	210	63	42	105.0	91.5	52.8	3
		17 PISIDIUM H	0	0	21	7.0	12.1	7.0	3
		17 SPHAERIUM	0	21	42	21.0	21.0	12.1	3
		19 OLIGOCHAET	7644	1323	6804	5257.0	3432.7	1981.9	3
		20 TURBELLARI	189	21	0	70.0	103.6	59.8	3
		24 HIRUDINEA	0	0	63	21.0	36.4	21.0	3
		27 POLYCHAETA	5460	1470	5880	4270.0	2433.9	1405.2	3
		Grand Sum = 73879	Mean = 24626.0		Std.Dev. = 7019.5		Std.Err = 4052.7		
	2/C	1 BAETIS	0	42	0	14.0	24.2	14.0	3
		1 EPHEMERA	189	315	567	357.0	192.5	111.1	3
		1 HEXAGENIA	567	231	756	518.0	265.9	153.5	3
		1 LEPTOPHLEB	21	0	21	14.0	12.1	7.0	3
		1 PARALEPTOP	0	21	0	7.0	12.1	7.0	3
		2 CERACLEA	63	21	0	28.0	32.1	18.5	3
		2 CHEUMATOPS	21	21	0	14.0	12.1	7.0	3
		2 MYSTACIDES	0	0	21	7.0	12.1	7.0	3
		2 NECTOPSYCH	42	0	21	21.0	21.0	12.1	3
		2 NYCTIOPHYL	0	84	0	28.0	48.5	28.0	3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/05/83	2/C	2 DECETIS	0	21	0	7.0	12.1	7.0	3
		2 PHRYGANEA	21	42	0	21.0	21.0	12.1	3
		2 POLYCENTRO	21	252	42	105.0	127.7	73.7	3
		2 TRIANODES	0	21	0	7.0	12.1	7.0	3
		4 CERATOPOGO	315	504	483	434.0	103.6	59.8	3
		4 CHIRONOMID	25494	20076	25935	23835.0	3262.9	1883.8	3
		4 SIMULIUM	0	630	0	210.0	363.7	210.0	3
		10 ACENTROPUS	21	0	0	7.0	12.1	7.0	3
		12 ASELLUS	42	378	420	280.0	207.2	119.6	3
		12 LIRCEUS	819	651	273	581.0	279.6	161.5	3
		13 GAMMARUS	189	42	42	91.0	84.9	49.0	3
		13 HYALELLA A	3822	2688	987	2499.0	1426.9	823.8	3
		16 AMNICOLA	84	0	21	35.0	43.7	25.2	3
		16 FOSSARIA	0	21	21	14.0	12.1	7.0	3
		16 GYRAULUS	0	0	21	7.0	12.1	7.0	3
		16 PHYSA	231	105	21	119.0	105.7	61.0	3
		16 PROMENETUS	21	0	0	7.0	12.1	7.0	3
		17 PISIDIUM	63	168	294	175.0	115.7	66.8	3
		17 SPHAERIUM	105	21	0	42.0	55.6	32.1	3
		19 OLIGOCHAET	5922	2667	6699	5096.0	2139.2	1235.0	3
		20 TURBELLARI	0	63	0	21.0	36.4	21.0	3
		27 POLYCHAETA	0	210	0	70.0	121.2	70.0	3
		Grand Sum = 104013	Mean = 34671.0		Std.Dev. = 4710.2		Std.Err = 2719.4		
	2/D	1 EPHEMERA	0	210	0	70.0	121.2	70.0	3
		4 CHIRONOMID	210	420	210	280.0	121.2	70.0	3
		4 SIMULIUM	0	0	210	70.0	121.2	70.0	3
		13 HYALELLA A	0	21	0	7.0	12.1	7.0	3
		19 OLIGOCHAET	336	0	42	126.0	183.1	105.7	3
		Grand Sum = 1659	Mean = 553.0		Std.Dev. = 94.7		Std.Err = 54.7		
	2/E	1 EPHEMERA	21	0	21	14.0	12.1	7.0	3
		1 HEXAGENIA	0	63	42	35.0	32.1	18.5	3
		2 LEPIDOSTOM	0	0	21	7.0	12.1	7.0	3
		2 MYSTACIDES	21	0	21	14.0	12.1	7.0	3
		2 PHRYGANEA	21	0	0	7.0	12.1	7.0	3
		2 POLYCENTRO	63	42	21	42.0	21.0	12.1	3
		2 TRIANODES	21	21	0	14.0	12.1	7.0	3
		4 CERATOPOGO	210	462	0	224.0	231.3	133.6	3
		4 CHIRONOMID	12096	13818	10311	12075.0	1753.6	1012.4	3
		12 ASELLUS	1071	735	252	686.0	411.7	237.7	3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/05/83	2/E	12 LIRCEUS	861	756	147	588.0	385.5	222.6	3
		13 GAMMARUS	0	21	0	7.0	12.1	7.0	3
		13 HYALELLA A	1596	2205	84	1295.0	1092.1	630.5	3
		16 AMNICOLA	0	0	126	42.0	72.7	42.0	3
		16 CAMPELOMA	84	168	126	126.0	42.0	24.2	3
		16 PHYSA	126	42	105	91.0	43.7	25.2	3
		17 PISIDIUM	168	63	63	98.0	60.6	35.0	3
		17 SPHAERIUM	0	0	21	7.0	12.1	7.0	3
		19 OLIGOCHAET	2835	12222	5040	6699.0	4908.5	2833.9	3
		20 TURBELLARI	294	693	0	329.0	347.8	200.8	3
		24 HIRUDINEA	147	0	231	126.0	116.9	67.5	3
		Grand Sum = 67578	Mean = 22526.0		Std.Dev. = 7754.8		Std.Err = 4477.2		
	2/F	1 EPHEMERA	63	84	189	112.0	67.5	39.0	3
		1 HEXAGENIA	168	63	105	112.0	52.8	30.5	3
		1 PARALEPTOP	42	0	21	21.0	21.0	12.1	3
		2 LEPIDOSTOM	21	0	0	7.0	12.1	7.0	3
		2 MYSTACIDES	0	0	21	7.0	12.1	7.0	3
		2 PHRYGANEA	0	42	0	14.0	24.2	14.0	3
		2 POLYCENTRO	168	21	42	77.0	79.5	45.9	3
		4 CERATOPOGO	231	0	441	224.0	220.6	127.4	3
		4 CHIRONOMID	9324	3423	9240	7329.0	3383.0	1953.1	3
		12 ASELLUS	63	21	21	35.0	24.2	14.0	3
		12 LIRCEUS	105	210	441	252.0	171.9	99.2	3
		13 GAMMARUS	0	0	42	14.0	24.2	14.0	3
		13 HYALELLA A	756	714	1533	1001.0	461.2	266.3	3
		16 CAMPELOMA	252	0	126	126.0	126.0	72.7	3
		16 HELISOMA	0	0	21	7.0	12.1	7.0	3
		16 PHYSA	924	42	42	336.0	509.2	294.0	3
		17 PISIDIUM	462	42	42	182.0	242.5	140.0	3
		17 SPHAERIUM	63	0	0	21.0	36.4	21.0	3
		19 OLIGOCHAET	2709	231	1113	1351.0	1256.0	725.2	3
		20 TURBELLARI	252	0	63	105.0	131.1	75.7	3
		24 HIRUDINEA	0	63	42	35.0	32.1	18.5	3
		Grand Sum = 34104	Mean = 11368.0		Std.Dev. = 5647.5		Std.Err = 3260.6		

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/11/83	3/B	1 CAENIS	21	0	0	7.0	12.1	7.0	3
		1 EPHEMERA	21	21	21	21.0	0.0	0.0	3
		1 EPHEMERELL	0	21	0	7.0	12.1	7.0	3
		1 HEXAGENIA	420	315	483	406.0	84.9	49.0	3
		1 PARALEPTOP	21	147	84	84.0	63.0	36.4	3
		2 POLYCENTRO	0	0	84	28.0	48.5	28.0	3
		2 TRIANODES	0	0	21	7.0	12.1	7.0	3
		4 CERATOPOGO	210	1470	168	616.0	739.9	427.2	3
		4 CHIRONOMID	19992	8316	20769	16359.0	6976.3	4027.7	3
		4 EPHYDRIDAE	0	0	21	7.0	12.1	7.0	3
		12 LIRCEUS	0	0	126	42.0	72.7	42.0	3
		13 HYALELLA A	462	441	357	420.0	55.6	32.1	3
		15 HYDRACARIN	0	42	0	14.0	24.2	14.0	3
		16 CAMPELOMA	588	21	189	266.0	291.2	168.1	3
		16 HELISOMA	42	0	0	14.0	24.2	14.0	3
		16 PHYSA	0	21	105	42.0	55.6	32.1	3
		17 PISIDIUM	0	21	21	14.0	12.1	7.0	3
		19 OLIGOCHAET	735	651	5082	2156.0	2534.3	1463.2	3
		20 TURBELLARI	63	21	0	28.0	32.1	18.5	3
		Grand Sum = 61614	Mean = 20538.0			Std.Dev. = 8203.4	Std.Err = 4736.2		
	3/C	1 EPHEMERA	21	42	42	35.0	12.1	7.0	3
		1 HEXAGENIA	1008	1407	1176	1197.0	200.3	115.7	3
		1 PARALEPTOP	210	0	0	70.0	121.2	70.0	3
		2 MYSTACIDES	0	21	0	7.0	12.1	7.0	3
		2 PHRYGANEA	0	21	0	7.0	12.1	7.0	3
		2 POLYCENTRO	147	42	63	84.0	55.6	32.1	3
		2 TRIANODES	0	0	21	7.0	12.1	7.0	3
		4 CERATOPOGO	441	1596	504	847.0	649.4	374.9	3
		4 CHIRONOMID	12180	18354	11949	14161.0	3633.1	2097.6	3
		12 ASELLUS	21	0	0	7.0	12.1	7.0	3
		12 LIRCEUS	105	147	42	98.0	52.8	30.5	3
		13 HYALELLA A	1155	273	756	728.0	441.7	255.0	3
		14 ORCONECTES	21	0	0	7.0	12.1	7.0	3
		15 HYDRACARIN	63	21	63	49.0	24.2	14.0	3
		16 PHYSA	0	21	0	7.0	12.1	7.0	3
		16 VALVATA TR	0	21	0	7.0	12.1	7.0	3
		17 PISIDIUM	42	0	42	28.0	24.2	14.0	3
		19 OLIGOCHAET	2940	2457	2457	2618.0	279.9	161.0	3
		20 TURBELLARI	105	84	210	133.0	67.5	39.0	3
		24 HIRUDINEA	21	0	0	7.0	12.1	7.0	3
		Grand Sum = 60312	Mean = 20104.0			Std.Dev. = 3856.6	Std.Err = 2226.6		

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/11/83	3/D	4 CERATOPOGO	0	210	0	70.0	121.2	70.0	3
		4 CHIRONOMID	0	0	21	7.0	12.1	7.0	3
		12 LIRCEUS	21	0	0	7.0	12.1	7.0	3
		15 HYDRACARIN	0	0	210	70.0	121.2	70.0	3
		Grand Sum = 462	Mean = 154.0		Std.Dev. = 115.7		Std.Err = 66.8		
	3/E	1 BAETIDAE	0	0	21	7.0	12.1	7.0	3
		1 HEXAGENIA	252	21	126	133.0	115.7	66.8	3
		1 PARALEPTOP	0	0	105	35.0	60.6	35.0	3
		2 MYSTACIDES	0	0	21	7.0	12.1	7.0	3
		2 POLYCENTRO	0	0	63	21.0	36.4	21.0	3
		2 TRIANODES	0	21	42	21.0	21.0	12.1	3
		4 CERATOPOGO	399	231	84	238.0	157.6	91.0	3
		4 CHIRONOMID	7056	28539	14763	16786.0	10883.4	6283.6	3
		12 ASELLUS	63	2646	168	959.0	1461.9	844.0	3
		12 LIRCEUS	0	147	336	161.0	168.4	97.2	3
		13 HYALELLA A	21	567	1260	616.0	621.0	358.5	3
		15 HYDRACARIN	42	63	63	56.0	12.1	7.0	3
		16 CAMPELOMA	0	42	0	14.0	24.2	14.0	3
		16 GYRAULUS	0	42	168	70.0	87.4	50.5	3
		16 PHYSA	21	0	231	84.0	127.7	73.7	3
		17 PISIDIUM	0	42	0	14.0	24.2	14.0	3
		19 OLIGOCHAET	8064	19698	7686	11816.0	6828.6	3942.5	3
		20 TURBELLARI	105	546	231	294.0	227.1	131.1	3
		24 HIRUDINEA	0	0	21	7.0	12.1	7.0	3
		Grand Sum = 94017	Mean = 31339.0		Std.Dev. = 19003.0		Std.Err = 10971.4		
	3/F	1 CAENIS	210	21	0	77.0	115.7	66.8	3
		1 EPHEMERA	0	63	189	84.0	96.2	55.6	3
		1 HEXAGENIA	1722	1806	441	1323.0	765.0	441.7	3
		2 POLYCENTRO	21	0	21	14.0	12.1	7.0	3
		2 TRIANODES	21	0	0	7.0	12.1	7.0	3
		4 CERATOPOGO	1680	315	1512	1169.0	744.3	429.7	3
		4 CHIRONOMID	23247	18333	9324	16968.0	7061.2	4076.8	3
		8 CORIXIDAE	0	21	0	7.0	12.1	7.0	3
		12 LIRCEUS	21	273	63	119.0	135.0	77.9	3
		13 HYALELLA A	945	798	84	609.0	460.6	265.9	3
		15 HYDRACARIN	42	189	105	112.0	73.7	42.6	3
		16 CAMPELOMA	21	126	189	112.0	84.9	49.0	3
		16 GYRAULUS	0	42	21	21.0	21.0	12.1	3
		16 HELISOMA	21	0	0	7.0	12.1	7.0	3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/11/83	3/F	16 PLEURACERA	0	0	63	21.0	36.4	21.0	3
		16 VALVATA TR	0	21	0	7.0	12.1	7.0	3
		17 PISIDIUM	21	0	0	7.0	12.1	7.0	3
		19 OLIGOCHAET	6216	2814	1449	3493.0	2455.0	1417.4	3
		20 TURBELLARI	0	189	21	70.0	103.6	59.8	3

Grand Sum = 72681 Mean = 24227.0 Std.Dev. = 10375.2 Std.Err = 5990.1

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/13/83	1/B	1 BAETIS	210	0	0	70.0	121.2	70.0	3
		1 CAENIS	21	252	210	161.0	123.0	71.0	3
		1 EPHEMERA	567	609	483	553.0	64.2	37.0	3
		1 HEXAGENIA	693	357	483	511.0	169.7	98.0	3
		1 PARALEPTOP	21	0	0	7.0	12.1	7.0	3
		2 MOLANNA	0	21	42	21.0	21.0	12.1	3
		2 OECETIS	210	21	0	77.0	115.7	66.8	3
		2 POLYCENTRO	63	84	21	56.0	32.1	18.5	3
		4 CERATOPOGO	882	882	1092	952.0	121.2	70.0	3
		4 CHIRONOMID	14364	11928	8127	11473.0	3143.3	1814.8	3
		12 LIRCEUS	105	0	63	56.0	52.8	30.5	3
		13 HYALELLA A	462	210	0	224.0	231.3	133.6	3
		16 AMNICOLA	21	0	0	7.0	12.1	7.0	3
		16 CAMPELOMA	0	105	21	42.0	55.6	32.1	3
		16 VALVATA SI	0	21	0	7.0	12.1	7.0	3
		16 VALVATA TR	42	0	0	14.0	24.2	14.0	3
		17 PISIDIUM	42	42	210	98.0	97.0	56.0	3
		17 UNKNOWN	0	21	0	7.0	12.1	7.0	3
		19 OLIGOCHAET	3255	4389	3717	3787.0	570.2	329.2	3
		Grand Sum = 54369	Mean = 18123.0			Std.Dev. = 3321.1		Std.Err = 1917.5	
	1/C	1 EPHEMERA	378	672	168	406.0	253.2	146.2	3
		1 HEXAGENIA	231	147	189	189.0	42.0	24.2	3
		1 PARALEPTOP	0	21	0	7.0	12.1	7.0	3
		2 CERACLEA	0	21	0	7.0	12.1	7.0	3
		2 HYDROPTILA	0	21	0	7.0	12.1	7.0	3
		2 LEPIDOSTOM	0	21	0	7.0	12.1	7.0	3
		2 MOLANNA	0	21	21	14.0	12.1	7.0	3
		2 MYSTACIDES	21	42	0	21.0	21.0	12.1	3
		2 OECETIS	42	21	0	21.0	21.0	12.1	3
		2 POLYCENTRO	0	252	21	91.0	139.8	80.7	3
		2 SETODES	42	0	0	14.0	24.2	14.0	3
		4 CERATOPOGO	0	294	0	98.0	169.7	98.0	3
		4 CHIRONOMID	4368	19614	6489	10157.0	8258.4	4768.0	3
		8 CORIXIDAE	0	21	0	7.0	12.1	7.0	3
		12 LIRCEUS	0	105	0	35.0	60.6	35.0	3
		13 HYALELLA A	0	1659	21	560.0	951.8	549.5	3
		15 HYDRACARIN	21	84	84	63.0	36.4	21.0	3
		16 CAMPELOMA	147	252	105	168.0	75.7	43.7	3
		16 FOSSARIA P	21	0	0	7.0	12.1	7.0	3
		16 PLEURACERA	168	0	42	70.0	87.4	50.5	3
		16 VALVATA SI	0	21	21	14.0	12.1	7.0	3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/13/83	1/C	16 VALVATA TR	21	0	0	7.0	12.1	7.0	3
		17 PISIDIUM	42	924	42	336.0	509.2	294.0	3
		17 SPHAERIUM	21	42	126	63.0	55.6	32.1	3
		19 OLIGOCHAET	693	924	420	679.0	252.3	145.7	3
		24 HIRUDINEA	42	63	0	35.0	32.1	18.5	3
		Grand Sum = 39249	Mean = 13083.0		Std.Dev. = 10556.4		Std.Err = 6094.7		
	1/D	4 CHIRONOMID	252	735	1680	889.0	726.3	419.4	3
		13 HYALELLA A	0	0	21	7.0	12.1	7.0	3
		19 OLIGOCHAET	0	21	0	7.0	12.1	7.0	3
		Grand Sum = 2709	Mean = 903.0		Std.Dev. = 735.6		Std.Err = 424.7		
	1/E	1 EPHEMERA	0	105	0	35.0	60.6	35.0	3
		1 HEXAGENIA	0	21	0	7.0	12.1	7.0	3
		4 CHIRONOMID	693	4389	903	1995.0	2075.9	1198.5	3
		13 PONTOPOREI	21	0	84	35.0	43.7	25.2	3
		15 HYDRACARIN	0	21	0	7.0	12.1	7.0	3
		16 CAMPELOMA	0	21	0	7.0	12.1	7.0	3
		17 PISIDIUM	21	0	0	7.0	12.1	7.0	3
		17 SPHAERIUM	21	0	0	7.0	12.1	7.0	3
		19 OLIGOCHAET	0	441	21	154.0	248.8	143.6	3
		Grand Sum = 6762	Mean = 2254.0		Std.Dev. = 2379.7		Std.Err = 1373.9		
	1/F	4 CERATOPOGO	21	0	1911	644.0	1097.3	633.5	3
		4 CHIRONOMID	7728	1995	9114	6279.0	3774.2	2179.0	3
		13 PONTOPOREI	42	0	21	21.0	21.0	12.1	3
		16 PLEURACERA	63	0	105	56.0	52.8	30.5	3
		17 PISIDIUM	21	21	42	28.0	12.1	7.0	3
		17 SPHAERIUM	21	0	0	7.0	12.1	7.0	3
		19 OLIGOCHAET	294	252	84	210.0	111.1	64.2	3
		Grand Sum = 21735	Mean = 7245.0		Std.Dev. = 4578.2		Std.Err = 2643.2		

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/20/83	5/B	1 HEXAGENIA	735	525	1638	966.0	591.4	341.4	3
		2 OECETIS	0	0	21	7.0	12.1	7.0	3
		4 CHIRONOMID	3465	1974	8841	4760.0	3612.0	2085.4	3
		13 HYALELLA A	0	21	0	7.0	12.1	7.0	3
		15 HYDRACARIN	0	21	63	28.0	32.1	18.5	3
		16 AMNICOLA	0	0	189	63.0	109.1	63.0	3
		16 CAMPELOMA	63	0	42	35.0	32.1	18.5	3
		17 PISIDIUM	21	0	0	7.0	12.1	7.0	3
		19 OLIGOCHAET	1638	1491	3675	2268.0	1220.7	704.8	3
		20 TURBELLARI	0	0	231	77.0	133.4	77.0	3
		27 POLYCHAETA	420	420	1911	917.0	860.8	497.0	3
		Grand Sum = 27405	Mean = 9135.0		Std.Dev. = 6543.0		Std.Err = 3777.6		
	5/C	1 HEXAGENIA	441	483	567	497.0	64.2	37.0	3
		2 LEPIDOSTOM	0	21	0	7.0	12.1	7.0	3
		2 MYSTACIDES	0	0	21	7.0	12.1	7.0	3
		2 PHYLOCENTR	21	42	84	49.0	32.1	18.5	3
		2 POLYCENTRO	21	0	84	35.0	43.7	25.2	3
		2 TRIAENODES	0	42	0	14.0	24.2	14.0	3
		4 CERATOPOGO	42	0	0	14.0	24.2	14.0	3
		4 CHIRONOMID	4242	4557	5439	4746.0	620.5	358.2	3
		4 UNKNOWN	210	0	0	70.0	121.2	70.0	3
		8 SIGARA	0	0	21	7.0	12.1	7.0	3
		12 LIRCEUS	126	0	21	49.0	67.5	39.0	3
		13 GAMMARUS	0	42	0	14.0	24.2	14.0	3
		13 HYALELLA A	420	357	693	490.0	178.6	103.1	3
		15 HYDRACARIN	0	84	42	42.0	42.0	24.2	3
		16 AMNICOLA	21	0	0	7.0	12.1	7.0	3
		16 CAMPELOMA	0	21	105	42.0	55.6	32.1	3
		16 PHYSA	0	0	63	21.0	36.4	21.0	3
		17 PISIDIUM	42	42	0	28.0	24.2	14.0	3
		19 OLIGOCHAET	210	21	462	231.0	221.2	127.7	3
		Grand Sum = 19110	Mean = 6370.0		Std.Dev. = 1067.8		Std.Err = 616.5		
	5/D	4 CHIRONOMID	210	0	420	210.0	210.0	121.2	3
		13 HYALELLA A	0	21	42	21.0	21.0	12.1	3
		16 PHYSA	0	21	21	14.0	12.1	7.0	3
		19 OLIGOCHAET	210	210	0	140.0	121.2	70.0	3
		Grand Sum = 1155	Mean = 385.0		Std.Dev. = 119.4		Std.Err = 68.9		
	5/E	1 HEXAGENIA	0	882	924	903.0	29.7	21.0	2

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/20/83	S/E	4 CERATOPOGO	0	21	21	21.0	0.0	0.0	2
		4 CHIRONOMID	0	3129	3381	3255.0	178.2	126.0	2
		13 HYALELLA A	0	21	21	21.0	0.0	0.0	2
		15 HYDRACARIN	0	0	21	10.5	14.8	10.5	2
		16 AMNICOLA	0	0	84	42.0	59.4	42.0	2
		16 CAMPELOMA	0	0	63	31.5	44.5	31.5	2
		16 STAGNICOLA	0	0	42	21.0	29.7	21.0	2
		16 VALVATA TR	0	42	63	157.5	14.8	10.5	2
		17 ANODONTA G	0	0	21	10.5	14.8	10.5	2
		17 PISIDIUM	0	0	21	10.5	14.8	10.5	2
		19 OLIGOCHAET	0	1722	3003	2362.5	905.8	640.5	2
		27 POLYCHAETA	0	231	0	115.5	163.3	115.5	2
		Grand Sum = 13713	Mean = 6856.5		Std.Dev. = 1143.4		Std.Err = 808.5		
	S/F	1 EPHEMERA	0	42	21	21.0	21.0	12.1	3
		1 HEXAGENIA	21	210	0	77.0	115.7	66.8	3
		2 MYSTACIDES	0	0	21	7.0	12.1	7.0	3
		2 POLYCENTRO	0	0	21	7.0	12.1	7.0	3
		2 SETODES	21	0	0	7.0	12.1	7.0	3
		2 TRIANODES	0	21	21	14.0	12.1	7.0	3
		4 CHIRONOMID	2940	2121	168	1743.0	1424.1	822.2	3
		12 LIRCEUS	273	84	147	168.0	96.2	55.6	3
		13 GAMMARUS	0	21	0	7.0	12.1	7.0	3
		13 HYALELLA A	714	1197	189	700.0	504.1	291.1	3
		15 HYDRACARIN	21	21	21	21.0	0.0	0.0	3
		16 CAMPELOMA	231	84	357	224.0	136.6	78.9	3
		16 PHYSA	21	0	0	7.0	12.1	7.0	3
		16 PLEURACERA	42	21	21	28.0	12.1	7.0	3
		16 VALVATA TR	0	0	63	21.0	36.4	21.0	3
		17 PISIDIUM	294	105	126	175.0	103.6	59.8	3
		17 SPHAERIUM	0	0	147	49.0	84.9	49.0	3
		19 OLIGOCHAET	3276	3423	819	2506.0	1462.8	844.6	3
		27 POLYCHAETA	0	0	210	70.0	121.2	70.0	3
		29 UNKNOWN	0	42	0	14.0	24.2	14.0	3
		Grand Sum = 17598	Mean = 5866.0		Std.Dev. = 3052.0		Std.Err = 1762.1		

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/21/83	6/B	1 CAENIS	0	252	0	84.0	145.5	84.0	3
		1 EPHEMERA	126	63	0	63.0	63.0	36.4	3
		1 HEXAGENIA	210	105	84	133.0	67.5	39.0	3
		2 POLYCENTRO	21	0	0	7.0	12.1	7.0	3
		4 CERATOPOGO	525	210	63	266.0	236.0	136.3	3
		4 CHIRONOMID	10122	7728	11004	9618.0	1695.2	978.7	3
		8 CORIXIDAE	0	420	0	140.0	242.5	140.0	3
		12 ASELLUS	0	0	42	14.0	24.2	14.0	3
		12 LIRCEUS	21	42	21	28.0	12.1	7.0	3
		13 GAMMARUS	0	21	21	14.0	12.1	7.0	3
		13 HYALELLA A	315	315	798	476.0	278.9	161.0	3
		15 HYDRACARIN	0	21	42	21.0	21.0	12.1	3
		16 AMNICOLA	0	0	21	7.0	12.1	7.0	3
		16 GYRAULUS	0	0	147	49.0	84.9	49.0	3
		17 PISIDIUM	0	0	21	7.0	12.1	7.0	3
		19 OLIGOCHAET	6279	5313	5859	5817.0	484.4	279.6	3
		20 TURBELLARI	42	0	0	14.0	24.2	14.0	3
		Grand Sum = 50274	Mean = 1675B.0		Std.Dev. = 1977.7		Std.Err = 1141.8		
	6/C	1 HEXAGENIA	336	378	399	371.0	32.1	18.5	3
		4 CHIRONOMID	1680	1197	2373	1750.0	591.1	341.3	3
		13 PONTOPOREI	21	42	0	21.0	21.0	12.1	3
		15 HYDRACARIN	0	42	42	28.0	24.2	14.0	3
		16 AMNICOLA	63	0	21	28.0	32.1	18.5	3
		16 VALVATA TR	84	0	0	28.0	48.5	28.0	3
		17 PISIDIUM	147	0	168	105.0	91.5	52.8	3
		17 SPHAERIUM	0	0	21	7.0	12.1	7.0	3
		19 OLIGOCHAET	84	651	21	252.0	347.0	200.3	3
		Grand Sum = 7770	Mean = 2590.0		Std.Dev. = 397.5		Std.Err = 229.5		
	6/D	1 HEXAGENIA	0	0	21	7.0	12.1	7.0	3
		4 CHIRONOMID	420	630	861	637.0	220.6	127.4	3
		19 OLIGOCHAET	105	0	420	175.0	218.6	126.2	3
		Grand Sum = 2457	Mean = 819.0		Std.Dev. = 421.6		Std.Err = 243.4		
	6/E	1 EPHEMERA	21	0	0	7.0	12.1	7.0	3
		1 HEXAGENIA	735	84	567	462.0	338.0	195.1	3
		2 OECETIS	21	0	0	7.0	12.1	7.0	3
		4 CERATOPOGO	0	210	0	70.0	121.2	70.0	3
		4 CHIRONOMID	2121	1050	2142	1771.0	624.5	360.6	3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/21/83	6/E	16 CAMPELOMA	0	21	0	7.0	12.1	7.0	3
		16 FOSSARIA	0	42	0	14.0	24.2	14.0	3
		16 STAGNICOLA	63	0	0	21.0	36.4	21.0	3
		16 VALVATA TR	84	42	0	42.0	42.0	24.2	3
		17 PISIDIUM	0	21	42	21.0	21.0	12.1	3
		17 SPHAERIUM	0	0	21	7.0	12.1	7.0	3
		19 OLIGOCHAET	861	1470	2184	1505.0	662.2	382.3	3
		Grand Sum = 11802	Mean = 3934.0		Std.Dev. = 1008.3		Std.Err = 582.1		
	6/F	1 CAENIS	945	420	231	532.0	369.9	213.6	3
		1 EPHEMERA	105	105	378	196.0	157.6	91.0	3
		1 HEXAGENIA	21	21	42	28.0	12.1	7.0	3
		2 LEPIDOSTOM	42	0	0	14.0	24.2	14.0	3
		2 MOLANNA	105	0	63	56.0	52.8	30.5	3
		2 MYSTACIDES	63	21	63	49.0	24.2	14.0	3
		2 OECETIS	42	0	21	21.0	21.0	12.1	3
		2 POLYCENTRO	0	0	42	14.0	24.2	14.0	3
		4 CERATOPOGO	210	0	504	238.0	253.2	146.2	3
		4 CHIRONOMID	12033	3297	8820	8050.0	4418.6	2551.1	3
		8 CORIXIDAE	0	0	21	7.0	12.1	7.0	3
		12 LIRCEUS	378	42	105	175.0	178.6	103.1	3
		13 GAMMARUS	21	0	0	7.0	12.1	7.0	3
		13 HYALELLA A	1260	231	378	623.0	556.5	321.3	3
		13 PONTOPOREI	21	63	0	28.0	32.1	18.5	3
		15 HYDRACARIN	63	210	0	91.0	107.8	62.2	3
		16 AMNICOLA	84	21	42	49.0	32.1	18.5	3
		16 GONIOBASIS	0	0	21	7.0	12.1	7.0	3
		16 PHYSA	21	0	0	7.0	12.1	7.0	3
		16 STAGNICOLA	42	63	21	42.0	21.0	12.1	3
		16 VALVATA SI	0	21	42	21.0	21.0	12.1	3
		17 PISIDIUM	441	105	0	182.0	230.4	133.0	3
		19 OLIGOCHAET	9345	3633	11907	8295.0	4235.8	2445.5	3
		20 TURBELLARI	21	0	0	7.0	12.1	7.0	3
		Grand Sum = 56217	Mean = 18739.0		Std.Dev. = 9171.0		Std.Err = 5294.9		

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/22/83	7/B	1 EPHEMERA	105	42	21	56.0	43.7	25.2	3
		1 HEXAGENIA	189	84	84	119.0	60.6	35.0	3
		2 MOLANNA	0	0	21	7.0	12.1	7.0	3
		2 OECETIS	0	21	21	14.0	12.1	7.0	3
		4 CERATOPOGO	21	0	0	7.0	12.1	7.0	3
		4 CHIRONOMID	4914	5901	5796	5537.0	542.1	313.0	3
		13 HYALELLA A	126	0	0	42.0	72.7	42.0	3
		15 HYDRACARIN	0	21	0	7.0	12.1	7.0	3
		16 AMNICOLA	0	420	231	217.0	210.3	121.4	3
		16 CAMPELOMA	126	0	147	91.0	79.5	45.9	3
		17 PISIDIUM	63	168	294	175.0	115.7	66.8	3
		17 SPHAERIUM	21	21	0	14.0	12.1	7.0	3
		19 OLIGOCHAET	1869	966	945	1260.0	527.5	304.6	3
		27 POLYCHAETA	210	420	0	210.0	210.0	121.2	3
		Grand Sum = 23268	Mean = 7756.0		Std.Dev. = 270.0		Std.Err = 155.9		
	7/C	1 HEXAGENIA	273	378	126	259.0	126.6	73.1	3
		4 CHIRONOMID	693	1302	441	812.0	442.7	255.6	3
		13 PONTOPOREI	105	147	0	84.0	75.7	43.7	3
		16 AMNICOLA	0	0	21	7.0	12.1	7.0	3
		17 PISIDIUM	0	21	273	98.0	151.9	87.7	3
		19 OLIGOCHAET	1134	1827	1491	1484.0	346.6	200.1	3
		27 POLYCHAETA	210	420	0	210.0	210.0	121.2	3
		Grand Sum = 8862	Mean = 2954.0		Std.Dev. = 988.6		Std.Err = 570.8		
	7/D	1 EPHEMERA	0	21	0	7.0	12.1	7.0	3
		4 CHIRONOMID	21	420	0	147.0	236.7	136.6	3
		17 PISIDIUM	42	0	0	14.0	24.2	14.0	3
		19 OLIGOCHAET	0	231	21	84.0	127.7	73.7	3
		27 POLYCHAETA	0	210	3150	1120.0	1761.2	1016.8	3
		Grand Sum = 4116	Mean = 1372.0		Std.Dev. = 1610.9		Std.Err = 930.1		
	7/E	1 EPHEMERA	0	21	0	7.0	12.1	7.0	3
		1 HEXAGENIA	273	336	168	259.0	84.9	49.0	3
		2 OECETIS	0	21	0	7.0	12.1	7.0	3
		4 CHIRONOMID	525	609	462	532.0	73.7	42.6	3
		13 HYALELLA A	0	0	21	7.0	12.1	7.0	3
		13 PONTOPOREI	147	189	42	126.0	75.7	43.7	3
		16 AMNICOLA	21	0	0	7.0	12.1	7.0	3
		17 PISIDIUM	21	42	0	21.0	21.0	12.1	3

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/22/83	7/E	17 SPHAERIUM	21	0	0	7.0	12.1	7.0	3
		19 OLIGOCHAET	2163	504	777	1148.0	889.6	513.6	3
		Grand Sum = 6363	Mean = 2121.0		Std.Dev. = 918.0		Std.Err = 530.0		
	7/F	4 CHIRONOMID	4011	4011	4116	4046.0	60.6	35.0	3
		17 SPHAERIUM	42	0	0	14.0	24.2	14.0	3
		19 OLIGOCHAET	651	1050	462	721.0	300.2	173.3	3
		Grand Sum = 14343	Mean = 4781.0		Std.Dev. = 250.5		Std.Err = 144.7		

GEAR : PONAR

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/25/83	4/B	1 CAENIS	0	0	210	70.0	121.2	70.0	3
		1 EPHEMERA	315	735	399	483.0	222.2	128.3	3
		1 HEXAGENIA	21	21	0	14.0	12.1	7.0	3
		2 HELICOPSYC	0	0	21	7.0	12.1	7.0	3
		2 MOLANNA	21	42	42	35.0	12.1	7.0	3
		4 CERATOPOGO	231	63	0	98.0	119.4	68.9	3
		4 CHIRONOMID	11592	9513	18333	13146.0	4610.8	2662.0	3
		13 HYALELLA A	42	0	0	14.0	24.2	14.0	3
		15 HYDRACARIN	210	210	210	210.0	0.0	0.0	3
		16 CAMPELOMA	840	210	273	441.0	347.0	200.3	3
		16 PLEURACERA	42	63	126	77.0	43.7	25.2	3
		16 STAGNICOLA	105	0	0	35.0	60.6	35.0	3
		16 VALVATA SI	21	0	0	7.0	12.1	7.0	3
		16 VALVATA TR	1029	357	945	777.0	366.1	211.4	3
		17 ANODONTA G	21	0	0	7.0	12.1	7.0	3
		17 PISIDIUM	168	42	0	70.0	87.4	50.5	3
		19 OLIGOCHAET	1617	1239	2016	1624.0	388.5	224.3	3
		20 TURBELLARI	84	0	21	35.0	43.7	25.2	3
		27 POLYCHAETA	210	210	420	280.0	121.2	70.0	3
		Grand Sum = 52290	Mean = 17430.0			Std.Dev. = 5209.1		Std.Err = 3007.5	
	4/C	1 HEXAGENIA	252	315	357	308.0	52.8	30.5	3
		1 PARALEPTOP	0	42	0	14.0	24.2	14.0	3
		2 TRIANODES	63	0	21	28.0	32.1	18.5	3
		4 CERATOPOGO	0	840	210	350.0	437.1	252.4	3
		4 CHIRONOMID	5586	12495	15036	11039.0	4890.4	2823.4	3
		9 SIALIS	21	21	21	21.0	0.0	0.0	3
		12 LIRCEUS	63	21	42	42.0	21.0	12.1	3
		13 GAMMARUS	42	0	0	14.0	24.2	14.0	3
		13 HYALELLA A	147	63	63	91.0	48.5	28.0	3
		14 DECAPODA	42	0	0	14.0	24.2	14.0	3
		15 HYDRACARIN	0	0	21	7.0	12.1	7.0	3
		16 GYRAULUS	21	0	0	7.0	12.1	7.0	3
		16 PHYSA	0	21	21	14.0	12.1	7.0	3
		17 PISIDIUM	42	0	0	14.0	24.2	14.0	3
		19 OLIGOCHAET	1701	3108	3759	2856.0	1051.9	607.3	3
		20 TURBELLARI	63	210	84	119.0	79.5	45.9	3
		Grand Sum = 44814	Mean = 14938.0			Std.Dev. = 6100.6		Std.Err = 3522.2	
	4/D	1 EPHEMERA	21	0	0	7.0	12.1	7.0	3
		1 HEXAGENIA	21	0	210	77.0	115.7	66.8	3

GEAR : PONAR

DATE	STA/SITE		TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/25/83	4/D	4	CHIRONOMID	525	0	924	483.0	463.4	267.6	3
		19	OLIGOCHAET	315	63	462	280.0	201.8	116.5	3
		27	POLYCHAETA	1680	840	1260	1260.0	420.0	242.5	3
		Grand Sum =		6321	Mean =	2107.0	Std.Dev. =	1053.0	Std.Err =	608.0
	4/E	1	CAENIS	210	0	210	140.0	121.2	70.0	3
		1	HEXAGENIA	315	504	525	448.0	115.7	66.8	3
		2	CERACLEA	21	0	0	7.0	12.1	7.0	3
		2	POLYCENTRO	21	0	0	7.0	12.1	7.0	3
		2	TRIAENODES	21	21	0	14.0	12.1	7.0	3
		4	CERATOPOGO	42	210	210	154.0	97.0	56.0	3
		4	CHIRONOMID	13167	10899	14490	12852.0	1816.1	1048.5	3
		12	ASELLUS	777	147	189	371.0	352.2	203.4	3
		12	LIRCEUS	168	0	63	77.0	84.9	49.0	3
		13	HYALELLA A	84	0	126	70.0	64.2	37.0	3
		16	CAMPELOMA	21	0	0	7.0	12.1	7.0	3
		16	GYRAULUS	336	42	0	126.0	183.1	105.7	3
		16	PHYSA	168	21	42	77.0	79.5	45.9	3
		17	PISIDIUM	0	21	21	14.0	12.1	7.0	3
		19	OLIGOCHAET	7896	1176	2982	4018.0	3477.7	2007.9	3
		20	TURBELLARI	483	378	210	357.0	137.7	79.5	3
		Grand Sum =		56217	Mean =	18739.0	Std.Dev. =	5163.4	Std.Err =	2981.1
	4/F	1	EPHEMERA	252	378	357	329.0	67.5	39.0	3
		2	CERACLEA	0	0	21	7.0	12.1	7.0	3
		2	MOLANNA	42	42	42	42.0	0.0	0.0	3
		2	OECETIS	0	21	0	7.0	12.1	7.0	3
		4	CERATOPOGO	63	441	42	182.0	224.5	129.6	3
		4	CHIRONOMID	3192	3486	2310	2996.0	612.0	353.3	3
		13	HYALELLA A	21	42	0	21.0	21.0	12.1	3
		15	HYDRACARIN	0	210	21	77.0	115.7	66.8	3
		16	CAMPELOMA	84	21	126	77.0	52.8	30.5	3
		16	FOSSARIA	0	0	21	7.0	12.1	7.0	3
		16	HELISOMA	21	0	0	7.0	12.1	7.0	3
		16	PLEURACERA	63	21	42	42.0	21.0	12.1	3
		16	VALVATA TR	42	0	42	28.0	24.2	14.0	3
		17	PISIDIUM	63	0	42	35.0	32.1	18.5	3
		19	OLIGOCHAET	336	945	735	672.0	309.3	178.6	3
		20	TURBELLARI	21	21	42	28.0	12.1	7.0	3
		Grand Sum =		13671	Mean =	4557.0	Std.Dev. =	944.5	Std.Err =	545.3

GEAR : ECKMAN

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/05/83	2/A	1 CAENIS	43	86	473	200.7	236.8	136.7	3
		1 CALLIBAETI	0	430	0	143.3	248.3	143.3	3
		1 HEXAGENIA	0	43	86	43.0	43.0	24.8	3
		2 NEMOTAULIU	0	0	43	14.3	24.8	14.3	3
		2 POLYCENTRO	86	86	129	100.3	24.8	14.3	3
		4 CHIRONOMID	3612	7181	4515	5102.7	1855.7	1071.4	3
		5 ENALLAGMA	0	0	43	14.3	24.8	14.3	3
		12 ASELLUS	1591	43	129	587.7	870.0	502.3	3
		13 GAMMARUS	215	172	215	200.7	24.8	14.3	3
		13 HYALELLA A	86	0	172	86.0	86.0	49.7	3
		16 CAMPELOMA	0	43	86	43.0	43.0	24.8	3
		16 GYRAULUS	43	0	0	14.3	24.8	14.3	3
		16 PHYSA	0	430	0	143.3	248.3	143.3	3
		17 PISIDIUM	86	473	0	186.3	252.0	145.5	3
		19 OLIGOCHAET	516	1333	4386	2078.3	2039.8	1177.7	3
		24 HIRUDINEA	215	0	0	71.7	124.1	71.7	3
		27 POLYCHAETA	0	0	430	143.3	248.3	143.3	3
		Grand Sum = 27520	Mean = 9173.3			Std.Dev. = 2329.3	Std.Err = 1344.8		
10/11/83	3/A	1 EPHEMERA	0	0	43	14.3	24.8	14.3	3
		1 HEXAGENIA	0	0	43	14.3	24.8	14.3	3
		4 CERATOPOGO	430	86	0	172.0	227.5	131.4	3
		4 CHIRONOMID	2537	1075	473	1361.7	1061.4	612.8	3
		12 LIRCEUS	0	0	43	14.3	24.8	14.3	3
		16 GYRAULUS	0	0	43	14.3	24.8	14.3	3
		17 PISIDIUM	0	86	43	43.0	43.0	24.8	3
		19 OLIGOCHAET	2322	2537	344	1734.3	1208.9	697.9	3
		27 POLYCHAETA	430	1290	0	573.3	656.8	379.2	3
		Grand Sum = 11825	Mean = 3941.7			Std.Dev. = 2540.4	Std.Err = 1466.7		
10/13/83	1/A	1 CAENIS	43	43	43	43.0	0.0	0.0	3
		1 EPHEMERA	516	172	86	258.0	227.5	131.4	3
		1 HEXAGENIA	0	215	86	100.3	108.2	62.5	3

GEAR : ECKMAN

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/13/83	1/A	2 MOLANNA	0	86	0	28.7	49.7	28.7	3
		2 OECETIS	0	86	43	43.0	43.0	24.8	3
		2 POLYCENTRO	0	43	0	14.3	24.8	14.3	3
		4 CERATOPOGO	0	860	946	602.0	523.1	302.0	3
		4 CHIRONOMID	301	8385	7095	5260.3	4343.1	2507.5	3
		4 EPHYDRIDAE	43	0	0	14.3	24.8	14.3	3
		13 GAMMARUS	0	43	0	14.3	24.8	14.3	3
		13 HYALELLA A	86	0	0	28.7	49.7	28.7	3
		15 HYDRACARIN	86	172	0	86.0	86.0	49.7	3
		16 CAMPELOMA	43	86	86	71.7	24.8	14.3	3
		16 GYRAULUS	43	0	0	14.3	24.8	14.3	3
		16 PHYSA	43	0	0	14.3	24.8	14.3	3
		17 SPHAERIUM	43	0	0	14.3	24.8	14.3	3
		17 UNKNOWN	0	86	0	28.7	49.7	28.7	3
		19 OLIGOCHAET	387	4214	2193	2264.7	1914.5	1105.3	3
		24 HIRUDINEA	0	43	0	14.3	24.8	14.3	3
		Grand Sum = 26746	Mean = 8915.3		Std.Dev. = 6608.8		Std.Err = 3815.6		
10/20/83	5/A	2 MOLANNA	0	0	43	14.3	24.8	14.3	3
		4 CERATOPOGO	0	430	0	143.3	248.3	143.3	3
		4 CHIRONOMID	6751	473	1075	2766.3	3463.9	1999.9	3
		13 HYALELLA A	43	0	0	14.3	24.8	14.3	3
		16 CAMPELOMA	43	43	0	28.7	24.8	14.3	3
		17 PISIDIUM	43	215	0	86.0	113.8	65.7	3
		19 OLIGOCHAET	6192	3612	1763	3855.7	2224.5	1284.3	3
		Grand Sum = 20726	Mean = 6908.7		Std.Dev. = 5420.8		Std.Err = 3129.7		
	5/B	4 CHIRONOMID	129	1333	1548	1003.3	764.8	441.6	3
		15 HYDRACARIN	0	43	0	14.3	24.8	14.3	3
		19 OLIGOCHAET	1290	473	0	587.7	652.6	376.8	3
		Grand Sum = 4816	Mean = 1605.3		Std.Dev. = 220.7		Std.Err = 127.4		
10/21/83	6/A	4 CHIRONOMID	602	645	1978	1075.0	782.3	451.7	3

GEAR : ECKMAN

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/21/83	6/A	15 HYDRACARIN	43	0	0	14.3	24.8	14.3	3
		19 OLIGOCHAET	0	2150	3010	1720.0	1550.4	895.1	3
		27 POLYCHAETA	0	0	860	286.7	496.5	286.7	3
		Grand Sum = 9288	Mean = 3096.0			Std.Dev. = 2614.5		Std.Err = 1509.5	
	6/G	1 EPHEMERA	43	43	0	28.7	24.8	14.3	3
		1 HEXAGENIA	43	43	0	28.7	24.8	14.3	3
		1 STENANEMA	0	43	0	14.3	24.8	14.3	3
		4 CHIRONOMID	1462	430	903	931.7	516.6	298.3	3
		12 LIRCEUS	43	0	0	14.3	24.8	14.3	3
		13 GAMMARUS	0	43	0	14.3	24.8	14.3	3
		13 HYALELLA A	129	344	86	186.3	138.2	79.8	3
		15 HYDRACARIN	0	0	43	14.3	24.8	14.3	3
		16 AMNICOLA	0	0	43	14.3	24.8	14.3	3
		16 CAMPELOMA	86	0	0	28.7	49.7	28.7	3
		16 FERRISSIA	0	0	86	28.7	49.7	28.7	3
		16 GYRAULUS	43	0	0	14.3	24.8	14.3	3
		17 PISIDIUM	0	0	215	71.7	124.1	71.7	3
		19 OLIGOCHAET	2881	860	1161	1634.0	1090.4	629.5	3
		20 TURBELLARI	129	43	86	86.0	43.0	24.8	3
		Grand Sum = 9331	Mean = 3110.3			Std.Dev. = 1563.1		Std.Err = 902.4	
10/22/83	7/A	1 CAENIS	86	0	129	71.7	65.7	37.9	3
		2 OECETIS	0	0	43	14.3	24.8	14.3	3
		4 CHIRONOMID	559	86	1032	559.0	473.0	273.1	3
		13 GAMMARUS	86	0	0	28.7	49.7	28.7	3
		13 HYALELLA A	0	215	645	286.7	328.4	189.6	3
		16 FERRISSIA	0	43	0	14.3	24.8	14.3	3
		16 GYRAULUS	43	0	43	28.7	24.8	14.3	3
		17 PISIDIUM	43	215	0	86.0	113.8	65.7	3
		19 OLIGOCHAET	4472	6020	3397	4629.7	1318.6	761.3	3
		20 TURBELLARI	43	0	43	28.7	24.8	14.3	3
		Grand Sum = 17243	Mean = 5747.7			Std.Dev. = 720.0		Std.Err = 415.7	
	7/G	1 EPHEMERA	0	0	430	143.3	248.3	143.3	3
		1 HEXAGENIA	0	43	0	14.3	24.8	14.3	3

GEAR : ECKMAN

DATE	STA/SITE	TAXON	DENSITIES (# / 30. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/22/83	7/6	2 DECETIS	0	43	0	14.3	24.8	14.3	3
		4 CERATOPOGO	0	43	0	14.3	24.8	14.3	3
		4 CHIRONOMID	3311	1634	2623	2522.7	843.0	486.7	3
		13 HYALELLA A	0	43	43	28.7	24.8	14.3	3
		15 HYDRACARIN	0	0	43	14.3	24.8	14.3	3
		17 PISIDIUM	43	0	0	14.3	24.8	14.3	3
		19 OLIGOCHAET	989	989	645	874.3	198.6	114.7	3
		27 POLYCHAETA	430	430	0	286.7	248.3	143.3	3
		Grand Sum = 11782	Mean = 3927.3		Std.Dev. = 783.9		Std.Err = 452.6		
10/25/83	4/A	1 CAENIS	0	0	43	14.3	24.8	14.3	3
		1 EPHEMERA	0	0	43	14.3	24.8	14.3	3
		1 HEXAGENIA	0	0	43	14.3	24.8	14.3	3
		1 PARACLOEOD	0	0	43	14.3	24.8	14.3	3
		1 PARALEPTOP	43	0	0	14.3	24.8	14.3	3
		2 MOLANNA	0	0	43	14.3	24.8	14.3	3
		4 CHIRONOMID	1806	1118	3182	2035.3	1050.9	606.8	3
		5 ENALLAGMA	43	0	43	28.7	24.8	14.3	3
		10 PARAPOYNX	43	0	0	14.3	24.8	14.3	3
		12 ASELLUS	387	172	129	229.3	138.2	79.8	3
		12 LIRCEUS	344	129	215	229.3	108.2	62.5	3
		13 GAMMARUS	172	86	86	114.7	49.7	28.7	3
		13 HYALELLA A	129	172	258	186.3	65.7	37.9	3
		16 GYRAULUS	86	0	0	28.7	49.7	28.7	3
		17 PISIDIUM	86	0	86	57.3	49.7	28.7	3
		19 OLIGOCHAET	989	559	3526	1691.3	1603.3	925.7	3
		24 HIRUDINEA	43	0	0	14.3	24.8	14.3	3
		27 POLYCHAETA	0	43	0	14.3	24.8	14.3	3
		Grand Sum = 14190	Mean = 4730.0		Std.Dev. = 2773.1		Std.Err = 1601.0		
	4/G	4 CHIRONOMID	0	86	43	43.0	43.0	24.8	3
		13 HYALELLA A	43	43	0	28.7	24.8	14.3	3
		19 OLIGOCHAET	0	430	430	286.7	248.3	143.3	3
		Grand Sum = 1075	Mean = 358.3		Std.Dev. = 276.5		Std.Err = 159.6		

GEAR : GERKING

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/05/83	2/A	1 EPHEMERA	20	0	0	6.7	11.5	6.7	3
		1 HEXAGENIA	0	20	0	6.7	11.5	6.7	3
		1 PARALEPTOP	0	0	40	13.3	23.1	13.3	3
		4 CHIR. PUPA	20	0	0	6.7	11.5	6.7	3
		4 CHIRONOMID	560	1080	860	833.3	261.0	150.7	3
		5 ENALLAGMA	20	0	0	6.7	11.5	6.7	3
		13 GAMMARUS	0	40	0	13.3	23.1	13.3	3
		16 FERRISSIA	0	20	0	6.7	11.5	6.7	3
		19 OLIGOCHAET	80	40	60	60.0	20.0	11.5	3
		Grand Sum = 2860	Mean = 953.3			Std.Dev. = 250.1	Std.Err = 144.4		
10/11/83	3/A	1 EPHEMERA	0	20	0	6.7	11.5	6.7	3
		1 PARALEPTOP	20	120	0	46.7	64.3	37.1	3
		4 CHIRONOMID	80	300	2820	2006.7	1400.2	808.4	3
		4 DOLICHIPOD	20	0	0	6.7	11.5	6.7	3
		5 AESCHNA	0	0	20	6.7	11.5	6.7	3
		5 ENALLAGMA	20	0	0	6.7	11.5	6.7	3
		12 LIRCEUS	40	0	0	13.3	23.1	13.3	3
		13 GAMMARUS	0	60	20	26.7	30.6	17.6	3
		13 HYALELLA A	40	40	20	33.3	11.5	6.7	3
		16 GYRAULUS	0	20	0	6.7	11.5	6.7	3
		16 PHYSA	0	20	0	6.7	11.5	6.7	3
		19 OLIGOCHAET	60	600	40	233.3	317.7	183.4	3
		27 POLYCHAETA	20	0	40	20.0	20.0	11.5	3
		Grand Sum = 4440	Mean = 1480.0			Std.Dev. = 1355.1	Std.Err = 782.4		
10/13/83	1/A	1 CAENIS	20	60	60	46.7	23.1	13.3	3
		1 EPHEMERA	0	60	60	40.0	34.6	20.0	3
		1 EPHEMERELL	20	0	20	13.3	11.5	6.7	3
		1 HEXAGENIA	0	40	60	33.3	30.6	17.6	3
		1 LEPTOPHLEB	0	20	20	13.3	11.5	6.7	3
		1 PARALEPTOP	0	40	20	20.0	20.0	11.5	3
		2 POLYCENTRO	20	0	20	13.3	11.5	6.7	3

GEAR : GERKING

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/13/83	1/A	4 CHIRONOMID	480	340	1360	726.7	552.9	319.2	3
		4 EMPIDIDAE	20	20	0	13.3	11.5	6.7	3
		13 GAMMARUS	0	140	60	66.7	70.2	40.6	3
		13 HYALELLA A	20	120	240	126.7	110.2	63.6	3
		15 HYDRACARIN	20	20	40	26.7	11.5	6.7	3
		16 AMNICOLA	0	280	0	93.3	161.7	93.3	3
		16 FERRISSIA	0	0	20	6.7	11.5	6.7	3
		16 GASTROPODA	20	0	0	6.7	11.5	6.7	3
		16 PHYSA	0	20	0	6.7	11.5	6.7	3
		19 OLIGOCHAET	180	240	160	193.3	41.6	24.0	3
		24 HIRUDINEA	0	20	0	6.7	11.5	6.7	3
		Grand Sum = 4360	Mean = 1453.3		Std.Dev. = 670.6		Std.Err = 387.2		
10/20/83	5/A	1 CAENIS	20	0	0	6.7	11.5	6.7	3
		1 EPHEMERELL	0	20	0	6.7	11.5	6.7	3
		1 LEPTOPHLEB	20	0	20	13.3	11.5	6.7	3
		1 PARALEPTOP	20	20	0	13.3	11.5	6.7	3
		4 CHIR. PUPA	40	0	0	13.3	23.1	13.3	3
		4 CHIRONOMID	2000	1040	3000	2013.3	980.1	565.8	3
		4 EMPIDIDAE	20	0	0	6.7	11.5	6.7	3
		13 GAMMARUS	100	20	40	53.3	41.6	24.0	3
		13 HYALELLA A	60	40	20	40.0	20.0	11.5	3
		19 OLIGOCHAET	30460	13060	13140	18886.7	10022.9	5786.7	3
		Grand Sum = 63160	Mean = 21053.3		Std.Dev. = 10171.2		Std.Err = 5872.4		
	5/6	1 LEPTOPHLEB	0	20	0	10.0	14.1	10.0	2
		4 CERATOPOGO	200	0	0	100.0	141.4	100.0	2
		4 CHIRONOMID	420	1000	0	710.0	410.1	290.0	2
		13 GAMMARUS	20	0	0	10.0	14.1	10.0	2
		16 FERRISSIA	0	20	0	10.0	14.1	10.0	2
		16 GYRAULUS	0	40	0	20.0	28.3	20.0	2
		19 OLIGOCHAET	400	400	0	400.0	0.0	0.0	2
		27 POLYCHAETA	0	200	0	100.0	141.4	100.0	2
		Grand Sum = 2720	Mean = 1360.0		Std.Dev. = 452.5		Std.Err = 320.0		
10/21/83	6/A	1 BAETIS	0	200	0	66.7	115.5	66.7	3

GEAR : GERKING

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/21/83	6/A	4 CHIRONOMID	2500	2020	2260	2260.0	240.0	138.6	3
		4 EMPIDIDAE	0	20	0	6.7	11.5	6.7	3
		13 HYALELLA A	0	20	80	33.3	41.6	24.0	3
		15 HYDRACARIN	20	0	0	6.7	11.5	6.7	3
		19 OLIGOCHAET	12880	7480	24800	15053.3	8862.2	5116.6	3
		Grand Sum = 52280	Mean = 17426.7		Std.Dev. = 8875.3		Std.Err = 5124.1		
	6/G	4 CHIRONOMID	1260	3220	1840	2106.7	1006.8	581.3	3
		6 PLECOPTERA	0	200	0	66.7	115.5	66.7	3
		12 LIRCEUS	0	0	200	66.7	115.5	66.7	3
		13 GAMMARUS	460	140	20	206.7	227.4	131.3	3
		15 HYDRACARIN	20	0	0	6.7	11.5	6.7	3
		16 FERRISSIA	60	0	20	26.7	30.6	17.6	3
		16 GYRAULUS	40	20	0	20.0	20.0	11.5	3
		16 PHYSA	0	0	20	6.7	11.5	6.7	3
		19 OLIGOCHAET	9640	10240	16220	12033.3	3638.2	2100.5	3
		27 POLYCHAETA	0	200	0	66.7	115.5	66.7	3
		29 UNKNOWN	400	0	0	133.3	230.9	133.3	3
		Grand Sum = 44220	Mean = 14740.0		Std.Dev. = 3279.8		Std.Err = 1893.6		
10/22/83	7/A	1 EPHEMERELL	0	20	0	6.7	11.5	6.7	3
		2 POLYCENTRO	0	20	0	6.7	11.5	6.7	3
		4 CERATOPOGO	20	0	0	6.7	11.5	6.7	3
		4 CHIRONOMID	4880	4100	5120	4700.0	533.3	307.9	3
		8 CORIXIDAE	0	0	20	6.7	11.5	6.7	3
		10 ACENTROPUS	20	20	0	13.3	11.5	6.7	3
		13 GAMMARUS	100	80	120	100.0	20.0	11.5	3
		13 HYALELLA A	20	20	0	13.3	11.5	6.7	3
		16 FERRISSIA	20	40	0	20.0	20.0	11.5	3
		16 PHYSA	0	40	20	20.0	20.0	11.5	3
		19 OLIGOCHAET	22100	17500	18120	19240.0	2496.2	1441.2	3
		Grand Sum = 72400	Mean = 24133.3		Std.Dev. = 2734.8		Std.Err = 1578.9		
	7/S	4 CHIRONOMID	4280	5000	5480	4920.0	604.0	348.7	3
		12 LIRCEUS	20	0	0	6.7	11.5	6.7	3
		13 GAMMARUS	80	180	20	93.3	80.8	46.7	3

GEAR : BERKING

DATE	STA/SITE	TAXON	DENSITIES (# / SQ. M) REP1	REP2	REP3	MEAN	Std.Dev.	Std.Err.	N
10/22/83	7/G	13 HYALELLA A	100	100	200	133.3	57.7	33.3	3
		16 GYRAULUS	0	20	20	13.3	11.5	6.7	3
		19 OLIGOCHAET	5380	2920	1500	3266.7	1963.1	1133.4	3
		Grand Sum = 25300	Mean = 8433.3		Std.Dev. = 1332.9		Std.Err = 769.5		
10/25/83	4/A	2 POLYCENTRO	20	0	20	13.3	11.5	6.7	3
		4 CERATOPOGO	0	20	0	6.7	11.5	6.7	3
		4 CHIRONOMID	940	500	1880	1106.7	704.9	407.0	3
		5 ENALLAGMA	20	80	20	40.0	34.6	20.0	3
		12 ASELLUS	0	0	20	6.7	11.5	6.7	3
		12 LIRCEUS	80	20	60	53.3	30.6	17.6	3
		13 GAMMARUS	80	0	0	26.7	46.2	26.7	3
		13 HYALELLA A	160	20	40	73.3	75.7	43.7	3
		16 FERRISSIA	0	40	0	13.3	23.1	13.3	3
		16 GYRAULUS	0	20	0	6.7	11.5	6.7	3
		19 OLIGOCHAET	200	0	260	153.3	136.1	78.6	3
		20 TURBELLARI	0	0	20	6.7	11.5	6.7	3
		24 HIRUDINEA	0	0	20	6.7	11.5	6.7	3
		Grand Sum = 4540	Mean = 1513.3		Std.Dev. = 820.1		Std.Err = 473.5		-
	4/G	4 CHIRONOMID	40	0	100	46.7	50.3	29.1	3
		12 LIRCEUS	20	0	0	6.7	11.5	6.7	3
		19 OLIGOCHAET	0	20	0	6.7	11.5	6.7	3
		Grand Sum = 180	Mean = 60.0		Std.Dev. = 40.0		Std.Err = 23.1		

Appendix K. Collection records for each larval fish sampling date including station, gear type, time, water volume filtered, and density of larvae, St. Marys River, 1982 and 1983. (Total larval density for each sample may not equal the sum of densities for all species due to rounding of numbers.)

Appendix Table K1. Density (No. 100 m^3) of ichthyoplankton estimated from pull net collections in the littoral zone (P), in 0.5 m net collections near macrophyte beds (S), and in 1.0 m net collections in the navigation channel (C), St. Marys River, 1982.

STATION III, 11 May 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2320	2335	Total	2352	2352	Total	2227	2240	Total
Vol. Filt. (m^3):	2.6	3.0	5.6	55.3	58.5	113.8	124.5	141.1	265.6
Lake herring	0	0	0	2	0	1	0	0	0
Burbot	0	0	0	186	113	149	31	44	38
Overall	0	0	0	188	113	149	31	44	38

STATION IV, 11 May 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2134	2145	Total	2213	2213	Total	2201	2216	Total
Vol. Filt. (m^3):	2.9	3.1	6.0	57.6	57.5	115.1	114.9	140.4	255.3
Lake herring	242	64	150	16	10	13	0	0	0
Lake whitefish	104	0	50	2	0	1	0	0	0
Burbot	0	32	17	36	40	38	33	30	31
Overall	346	96	217	54	50	52	33	30	31

STATION V, 11 May 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2115	2125	Total	2200	2200	Total	2230	2240	Total
Vol. Filt. (m^3):	3.3	3.6	6.9	39.9	39.2	79.1	115.7	110.5	226.1
Burbot	0	0	0	0	0	0	10	5	7
Lake herring	0	0	0	3	0	1	1	0	<1
Overall	0	0	0	3	0	1	10	5	8

STATION VI, 11 and 12 May 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2100	2115	Total	0100	0100	Total	0130	0140	Total
Vol. Filt. (m^3):	3.1	3.2	6.3	37.8	37.6	75.4	100.7	115.4	216.1
Burbot	0	31	16	3	19	11	11	13	12
Lake herring	0	62	32	8	16	12	0	0	0
Lake whitefish	0	0	0	5	0	3	0	0	0
Overall	0	94	48	16	35	25	11	13	12

Appendix Table K1. (Continued)

STATION VII, 11 May 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2120	2130	Total	2140	2140	Total	2210	2225	Total
Vol. Filt. (m^3):	4.7	4.3	9.0	41.8	42.7	84.5	72.0	119.7	191.7
Burbot	0	46	22	0	2	1	44	18	28
Lake herring	464	534	497	101	96	98	0	0	0
Lake whitefish	42	116	77	2	5	4	0	0	0
Overall	506	697	597	103	103	103	44	18	28

STATION II, 12 May 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2210	2220	Total	2240	2240	Total	2145	2155	Total
Vol. Filt. (m^3):	1.7	1.7	3.4	54.9	53.7	108.6	80.6	56.4	137.1
Lake herring	0	0	0	0	2	1	0	0	0
Burbot	0	0	0	11	6	8	16	18	17
Overall	0	0	0	11	7	9	16	18	17

STATION I, LAKE SUPERIOR, 17 May 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2045	2045	Total	2109	2109	Total	2136	2146	Total
Vol. Filt. (m^3):	2.9	2.9	5.8	52.5	55.6	108.1	100.4	101.0	201.4
Lake whitefish	0	0	0	2	2	2	0	0	0
Burbot	0	0	0	0	0	0	0	2	1
Overall	0	0	0	2	2	2	0	2	1

STATION V, 18 and 19 May 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2330	2345	Total	0010	0010	Total	2245	2300	Total
Vol. Filt. (m^3):	3.2	4.1	7.3	43.6	45.7	89.3	112.0	123.2	235.2
Yellow perch	5463	2054	3542	39	59	49	0	0	0
Burbot	0	0	0	23	24	24	5	8	7
Rainbow smelt	0	0	0	57	66	62	3	5	4
Lake herring	0	0	0	0	0	0	1	0	<1
Unidentifiable	126	0	55	0	0	0	0	0	0
Overall	5589	2054	3597	119	149	134	9	13	11

Appendix Table K1. (Continued)

STATION VI, 18 May 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2125	2135	Total	2145	2145	Total	2205	2220	Total
Vol. Filt. (m^3):	4.5	3.8	8.3	41.5	42.6	84.1	116.2	109.9	226.1
Burbot	22	53	36	27	59	43	10	8	9
Rainbow smelt	0	0	0	43	33	38	0	0	0
Lake herring	0	0	0	0	16	8	0	0	0
Overall	22	53	36	70	108	89	10	8	9

STATION VII, 19 May 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0150	0155	Total	0135	0135	Total	0050	0110	Total
Vol. Filt. (m^3):	4.6	3.8	8.4	45.3	47.0	92.2	116.9	113.4	230.3
Burbot	0	0	0	0	0	0	13	17	15
Rainbow smelt	22	132	72	13	17	15	3	3	3
Pink salmon	0	0	0	0	0	0	1	0	<1
Yellow perch	44	158	95	115	115	115	0	0	0
Lake herring	0	0	0	4	4	4	0	0	0
Overall	65	290	167	133	136	134	17	19	18

STATION V, 25 and 26 May 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0000	0008	Total	2340	2340	Total	2300	2310	Total
Vol. Filt. (m^3):	5.2	4.1	9.3	46.0	48.1	94.1	95.3	96.1	191.4
Yellow perch	2263	4487	3242	784	794	790	0	2	1
Burbot	0	0	0	0	0	0	7	9	8
Rainbow smelt	0	0	0	22	44	33	6	0	3
Walleye	19	49	32	13	15	14	0	0	0
Logperch	0	0	0	28	40	34	0	0	0
Percidae	115	268	183	0	8	4	0	0	0
Overall	2397	4804	3457	847	900	875	14	11	13

STATION VI, 25 May 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2135	2144	Total	2205	2205	Total	2230	2240	Total
Vol. Filt. (m^3):	4.7	4.5	9.2	49.0	50.7	99.7	104.6	97.4	202.0
Yellow perch	0	22	11	20	28	24	3	0	1
Burbot	0	0	0	0	0	0	1	2	1
Rainbow smelt	0	22	11	80	71	75	18	26	22
Overall	0	44	22	100	99	99	22	28	25

Appendix Table [illegible]. Continued.

STATION III, 26 May 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0150	0155	Total	0130	0130	Total	0050	0100	Total
Vol. Filt. (m^3):	4.7	3.0	7.7	50.8	53.0	103.8	109.0	93.0	201.9
Yellow perch	1687	33	1130	281	277	279	1	0	<1
Rainbow smelt	21	3	13	4	9	7	28	30	29
Burbot	0	0	0	0	0	0	2	3	2
Unidentifiable	0	33	13	0	2	1	0	0	0
Lake herring	0	0	0	2	2	2	0	0	0
Overall	1659	99	1156	287	291	289	31	33	32

STATION II, 26 and 27 May 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	*	C
Time (h):	2314	2351	Total	0012	0012	Total	2345		Total
Vol. Filt. (m^3):	2.1	2.8	4.9	54.0	55.2	109.2	108.9		108.9
Lake whitefish	0	0	0	4	5	5	0		0
Rainbow smelt	0	0	0	0	2	1	2		2
Burbot	0	0	0	2	4	3	16		16
Yellow perch	812	107	408	46	83	65	0		0
Overall	812	107	408	52	94	73	17		17

*No replicate

STATION III, 26 May 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2238	2243	Total	2247	2247	Total	2240	2240	Total
Vol. Filt. (m^3):	2.6	2.3	4.8	6.8	17.7	24.5	81.1	108.9	190.0
Lake herring	0	0	0	30	6	12	0	0	0
Rainbow smelt	0	0	0	251	56	110	6	3	4
Burbot	0	0	0	30	0	8	4	4	4
Yellow perch	0	0	0	15	6	8	0	0	0
Overall	0	0	0	325	68	139	10	6	8

STATION IV, 26 May 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2131	2143	Total	2210	2210	Total	2140	2150	Total
Vol. Filt. (m^3):	2.9	2.5	5.4	54.1	67.0	121.0	109.1	93.1	202.2
Lake herring	0	0	0	211	211	211	0	0	0
Rainbow smelt	0	0	0	0	0	0	2	2	2
Burbot	0	0	0	0	2	1	3	2	2
Yellow perch	34	0	18	33	68	50	0	0	0
Overall	34	0	18	244	281	261	5	4	4

Appendix Table K1. (Continued)

STATION I, LAKE SUPERIOR, 27 May 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2205	2214	Total	2224	2224	Total	2243	2256	Total
Vol. Filt. (m^3):	2.6	2.4	5.0	53.8	53.4	107.2	149.0	149.5	298.5
Lake whitefish	0	0	0	4	0	2	0	0	0
Rainbow smelt	0	0	0	4	6	5	1	1	1
Burbot	0	0	0	6	2	4	9	3	6
Overall	0	0	0	13	7	10	9	4	7

STATION I, LAKE SUPERIOR, 8 June 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2130	2145	Total	2210	2210	Total	2230	2250	Total
Vol. Filt. (m^3):	8.7	2.7	11.4	59.3	55.0	114.3	98.3	88.9	187.2
Rainbow smelt	0	0	0	30	31	31	11	29	20
Burbot	0	0	0	13	13	13	7	10	9
Overall	0	0	0	44	44	44	18	39	28

STATION V, 10 June 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2130	2140	Total	2155	2155	Total	2215	2230	Total
Vol. Filt. (m^3):	3.8	4.0	7.8	48.6	49.2	97.8	99.5	99.1	198.6
Burbot	27	100	64	2	0	1	1	0	1
Rainbow smelt	0	0	0	107	122	115	136	125	130
Yellow perch	27	323	180	14	26	20	0	0	0
Percidae	27	0	13	0	2	1	0	0	0
Cyprinidae	27	75	51	0	0	0	0	0	0
Johnny darter	0	0	0	0	2	1	0	0	0
Overall	106	498	309	123	152	138	137	125	131

Appendix Table K1. (Continued)

STATION VI, 10 June 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2345	2350	Total	2330	2350	Total	2245	2300	Total
Vol. Filt. (m^3):	3.0	3.5	6.5	45.5	0	45.5	115.5	112.8	228.4
Yellow perch	337	369	354	18	-	18	1	0	<1
Burbot	0	0	0	0	-	0	1	2	1
Rainbow smelt	0	0	0	20	-	20	142	128	135
Unidentifiable	34	0	15	2	-	2	0	0	0
Cyprinidae	168	113	139	20	-	20	0	0	0
Johnny darter	0	0	0	13	-	13	0	0	0
Percidae	236	85	154	4	-	4	0	0	0
Trout-perch	0	0	0	2	-	2	0	0	0
Cottus spp.	0	0	0	4	-	4	0	0	0
Overall	775	567	662	84	-	84	144	129	137

STATION VII, 11 June 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0115	0120	Total	0100	0100	Total	0015	0035	Total
Vol. Filt. (m^3):	3.8	4.0	7.8	51.5	53.4	104.9	88.7	110.2	198.9
Yellow perch	650	372	508	91	86	89	0	0	0
Johnny darter	78	25	51	10	28	19	0	1	1
Percidae	26	25	25	0	0	0	0	0	0
Rainbow smelt	0	0	0	14	37	26	127	109	117
Cyprinidae	4135	943	2501	0	0	0	0	0	0
Trout-perch	0	0	0	0	2	1	0	0	0
Overall	4889	1364	3085	115	153	134	127	110	118

STATION II, 16 June 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0030	0040	Total	0100	0100	Total	0030	0040	Total
Vol. Filt. (m^3):	2.1	1.7	3.8	62.9	64.7	127.5	91.7	113.5	205.2
Rainbow smelt	0	0	0	43	53	48	63	71	68
Burbot	0	0	0	2	0	1	3	1	2
Yellow perch	0	0	0	6	6	6	0	0	0
Lepomis sp.	47	59	52	0	0	0	0	0	0
Overall	47	59	52	51	59	55	67	72	70

Appendix Table K1 (Continued)

STATION III, 16 June 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2325	2325	Total	2345	2345	Total	2310	2320	Total
Vol. Filt. (m^3):	3.5	3.1	6.7	65.3	66.3	131.6	87.6	112.1	199.7
Lake herring	0	0	0	0	0	0	1	0	1
Rainbow smelt	0	0	0	98	89	93	48	69	60
Burbot	0	0	0	2	5	3	0	1	1
Yellow perch	28	0	15	0	2	1	0	0	0
Overall	28	0	15	100	95	97	49	70	61

STATION IV, 16 June 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2230	2240	Total	2250	2250	Total	2215	2225	Total
Vol. Filt. (m^3):	3.2	3.2	6.4	63.9	64.1	128.0	116.6	116.6	233.3
Rainbow smelt	31	93	62	302	215	259	56	60	58
Cyprinidae	62	62	62	0	0	0	0	0	0
Burbot	0	0	0	5	5	5	1	3	2
Deepwater sculpin	0	0	0	0	0	0	0	2	1
Overall	93	156	124	307	220	263	57	64	60

STATION V, 22 June 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0209	0219	Total	0145	0155	Total	0120	0130	Total
Vol. Filt. (m^3):	3.5	2.4	5.9	36.2	29.6	65.8	74.5	94.8	169.3
Burbot	0	0	0	0	0	0	0	1	1
Rainbow smelt	0	0	0	11	20	15	21	11	15
Cyprinidae	114	42	85	0	3	2	0	1	1
Yellow perch	942	671	832	75	37	58	0	0	0
White sucker	29	0	17	0	0	0	0	0	0
Unidentifiable	57	0	34	0	0	0	0	0	0
Pomoxis sp.	0	42	17	0	0	0	0	0	0
Walleye	0	0	0	0	3	2	0	0	0
Johnny darter	0	0	0	6	7	6	0	0	0
Percidae	0	0	0	8	0	5	0	0	0
Overall	1142	755	985	100	71	87	21	13	17

Appendix Table K1 (Continued)

STATION VI, 21 and 22 June 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0030	0040	Total	0010	0010	Total	2330	2345	Total
Vol. Filt. (m^3):	3.5	3.3	6.7	45.3	45.1	90.4	99.7	88.4	188.1
Yellow perch	87	31	59	9	13	11	0	0	0
Johnny darter	29	0	15	33	24	29	0	0	0
Percidae	29	0	15	7	4	5	1	0	1
Trout-perch	26	61	45	0	0	0	0	0	0
Cyprinidae	549	214	386	0	0	0	0	0	0
Common carp	29	0	15	18	38	28	0	0	0
Rainbow smelt	0	0	0	51	35	43	19	7	13
Lake herring	0	0	0	0	0	0	1	0	1
Overall	751	306	535	117	115	116	21	7	14

STATION VII, 21 June 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2145	2155	Total	2215	2215	Total	2300	2310	Total
Vol. Filt. (m^3):	2.2	3.8	6.0	41.1	41.8	83.0	82.9	105.6	188.5
Yellow perch	230	158	185	58	33	46	0	0	0
Percidae	46	0	17	0	0	0	0	0	0
Rainbow smelt	0	0	0	7	5	6	23	33	29
Lake herring	0	0	0	0	0	0	1	0	1
Johnny darter	0	0	0	2	0	1	0	0	0
Overall	277	158	201	68	38	53	24	33	30

STATION II, 30 June 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0010	0015	Total	0030	0030	Total	0030	0040	Total
Vol. Filt. (m^3):	2.8	2.6	5.4	53.7	55.2	108.9	79.0	65.0	144.0
Rainbow smelt	0	39	18	22	33	28	20	20	20
Common carp	0	0	0	0	2	1	0	0	0
Burbot	0	0	0	0	4	2	0	0	0
Johnny darter	35	0	18	2	0	1	0	0	0
Yellow perch	0	155	74	13	7	10	3	0	1
Logperch	141	0	74	0	0	0	0	0	0
Lepomis sp.	0	193	92	0	0	0	0	0	0
Overall	177	387	277	37	45	41	23	20	22

Appendix Table K1. (Continued)

STATION III, 30 June 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2310	2312	Total	2330	2330	Total	2315	2332	Total
Vol. Filt. (m^3):	3.1	2.9	5.9	63.9	62.3	126.2	74.8	89.2	164.0
Rainbow smelt	0	35	17	3	10	6	12	7	9
White sucker	196	209	202	0	0	0	0	0	0
Johnny darter	0	0	0	2	2	2	0	1	1
Yellow perch	261	0	135	2	5	3	0	0	0
Logperch	0	0	0	0	0	0	3	0	1
Lepomis sp.	196	349	270	0	0	0	0	0	0
Cottus sp.	0	0	0	5	0	2	3	2	2
Overall	653	593	624	11	16	13	17	10	13

STATION IV, 30 June 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2215	2230	Total	2240	2240	Total	2200	2215	Total
Vol. Filt. (m^3):	3.4	3.7	7.2	58.7	59.2	117.9	98.2	98.5	196.6
Rainbow smelt	0	27	14	20	25	23	37	25	31
Cyprinidae	0	80	42	0	0	0	0	0	0
White sucker	29	0	14	0	0	0	0	0	0
Moxostoma sp.	0	27	14	0	0	0	1	0	1
Burbot	29	0	14	0	0	0	0	0	0
Ninespine stickleback	0	0	0	2	0	1	0	0	0
Logperch	29	54	42	19	37	28	0	1	1
Lepomis sp.	611	214	404	0	0	0	0	0	0
Overall	698	402	544	41	63	52	38	26	32

STATION I, LAKE SUPERIOR, 1 July 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2220	2227	Total	2240	2240	Total	2300	2300	Total
Vol. Filt. (m^3):	2.7	2.2	4.9	66.5	65.0	131.5	109.1	147.7	256.8
Rainbow smelt	0	0	0	8	9	8	40	28	33
Cyprinidae	74	179	122	2	2	2	0	0	0
Catostomidae	37	0	20	0	0	0	0	0	0
Burbot	0	0	0	0	0	0	4	1	2
Ninespine stickleback	0	0	0	2	2	2	0	0	0
Johnny darter	0	45	20	11	11	11	0	0	0
Yellow perch	0	179	81	80	85	82	0	0	0
Logperch	0	45	20	0	0	0	0	0	0
Lepomis sp.	37	134	81	0	0	0	0	0	0
Overall	149	582	345	101	108	104	44	30	36

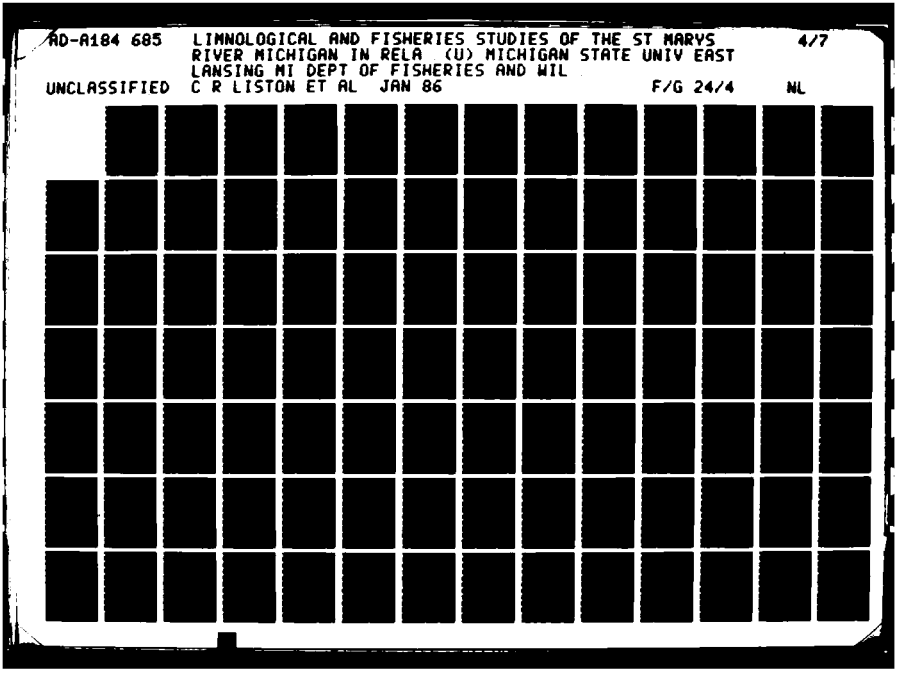
Appendix Table K1. (Continued)

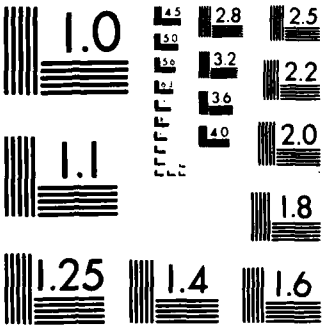
STATION V, 7 July 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0100	0110	Total	0045	0045	Total	0010	0020	Total
Vol. Filt. (m^3):	5.2	3.7	8.9	49.0	49.4	98.4	99.8	105.2	205.0
Johnny darter	19	0	11	2	16	9	1	0	<1
Logperch	77	0	45	2	2	2	1	0	<1
Rainbow smelt	0	0	0	31	44	38	11	21	16
Ninespine stickleback	0	0	0	0	0	0	1	0	<1
Cottus spp.	0	0	0	0	0	0	1	1	1
Cyprinidae	0	0	0	0	2	1	1	0	<1
Common carp	0	0	0	0	0	0	0	1	<1
Banded killifish	0	27	11	0	0	0	0	0	0
Spottail shiner	39	0	22	0	0	0	0	0	0
Mimic shiner	19	0	11	0	0	0	0	0	0
Overall	154	27	101	35	65	50	16	23	20

STATION VI, 7 July 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0145	0150	Total	0200	0200	Total	0220	0230	Total
Vol. Filt. (m^3):	3.1	2.8	5.9	44.4	45.2	89.6	103.2	106.6	209.8
Johnny darter	0	0	0	14	29	21	1	0	<1
Logperch	0	0	0	34	35	15	0	2	1
Rainbow smelt	0	0	0	7	11	9	8	15	11
Unidentifiable	0	0	0	0	2	1	0	0	0
Trout-perch	0	0	0	7	4	6	0	0	0
Cyprinidae	0	0	0	23	38	30	0	0	0
Cottus spp.	0	0	0	0	0	0	0	1	<1
Common carp	258	142	203	95	51	73	0	0	0
Overall	258	142	203	178	170	174	9	18	13


AD-A184 685 LIMNOLOGICAL AND FISHERIES STUDIES OF THE ST MARYS 4/7
RIVER MICHIGAN IN RELA (U) MICHIGAN STATE UNIV EAST
LANSING MI DEPT OF FISHERIES AND WIL
UNCLASSIFIED C R LISTON ET AL JAN 86 F/G 24/4 NL



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

Appendix Table K1. (Continued)

STATION VII, 6 July 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2240	2245	Total	2305	2310	Total	2330	2340	Total
Vol. Filt. (m^3):	3.1	3.2	6.4	47.9	48.1	96.0	105.8	104.6	210.3
Johnny darter	0	0	0	59	31	45	1	1	1
Logperch	32	0	16	4	2	3	0	0	0
Rainbow smelt	0	0	0	2	2	2	4	18	11
White sucker	0	31	16	0	0	0	6	3	4
Unidentifiable	0	31	16	0	2	1	0	0	0
Trout-perch	32	0	16	0	0	0	0	0	0
Lepomis spp.	0	0	0	0	2	1	0	0	0
Cyprinidae	1084	311	692	25	10	18	0	0	0
Common carp	32	0	16	6	4	5	2	0	1
Spottail shiner	64	0	13	0	0	0	0	0	0
Overall	1243	373	802	96	54	75	15	22	17

STATION II, 13 July 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2345	2350	Total	2400	0005	Total	2344	2355	Total
Vol. Filt. (m^3):	2.6	6.8	9.4	59.5	59.1	116.6	121.8	120.3	242.1
Rainbow smelt	0	0	0	3	3	3	4	3	4
Common carp	0	0	0	0	2	1	0	0	0
Cyprinidae	782	132	310	26	12	19	0	0	0
White sucker	0	0	0	0	0	0	2	0	1
Moxostoma sp.	0	44	32	0	0	0	0	0	0
Catostomidae	156	0	43	0	2	1	0	0	0
Trout-perch	0	0	0	3	0	2	0	0	0
Ninespine stickleback	0	0	0	0	0	0	0	1	<1
Johnny darter	0	0	0	5	5	5	1	0	<1
Yellow perch	0	0	0	24	25	25	2	0	1
Logperch	39	191	150	16	10	13	0	0	0
Percidae	469	0	128	0	0	0	0	0	0
Rock bass	39	0	11	2	0	1	0	0	0
Lepomis sp.	0	618	449	3	2	3	0	0	0
Cottus sp.	0	0	0	0	0	0	1	2	1
Unidentifiable	0	15	11	0	0	0	0	0	0
Overall	1486	1000	1133	83	61	72	9	6	7

Appendix Table K1. (Continued)

STATION III, 13 July 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2250	2255	Total	2315	2315	Total	2311	2311	Total
Vol. Filt. (m^3):	1.6	2.3	3.9	54.0	55.1	109.1	139.8	115.0	254.8
Rainbow smelt	0	0	0	0	2	1	5	2	4
Cyprinidae	61	221	154	0	2	1	0	0	0
Burbot	0	0	0	0	0	0	1	0	<1
Trout-perch	0	0	0	2	0	1	0	0	0
Ninespine stickleback	0	0	0	0	0	0	4	0	2
Johnny darter	0	0	0	0	2	1	2	0	1
Yellow perch	0	44	26	0	0	0	0	0	0
Logperch	0	0	0	2	9	5	1	0	<1
Percidae	0	3095	1796	0	0	0	0	0	0
Lepomis sp.	1712	0	718	2	2	2	1	0	<1
Cottus sp.	0	0	0	6	0	3	6	0	4
Overall	1773	3360	2694	11	16	14	19	2	11

STATION IV, 13 July 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2210	2215	Total	2225	2225	Total	2159	2211	Total
Vol. Filt. (m^3):	2.5	2.5	5.0	58.1	59.1	117.1	141.2	121.3	262.5
Rainbow smelt	0	0	0	16	19	17	1	2	2
Cyprinidae	1217	1539	1380	2	0	1	1	0	<1
White sucker	1055	1657	1360	2	0	1	0	0	0
Moxostoma sp.	0	0	0	0	5	3	0	2	1
Catostomidae	0	0	0	0	0	0	1	0	<1
Trout-perch	0	0	0	0	2	1	1	1	1
Ninespine stickleback	0	0	0	0	2	1	1	0	1
Johnny darter	41	0	20	0	2	1	4	3	3
Logperch	0	118	60	103	88	96	1	0	<1
Lepomis sp.	365	552	460	0	0	0	0	0	0
Cottus sp.	0	0	0	2	3	3	1	2	1
Overall	2677	3866	3280	124	120	122	10	9	10

Appendix Table K1. (Continued)

STATION I, LAKE SUPERIOR, 14 July 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2145	2145	Total	2210	2210	Total	2245	2245	Total
Vol. Filt. (m^3):	3.0	3.0	6.0	57.1	57.1	114.2	88.2	93.9	182.0
Rainbow smelt	0	0	0	0	0	0	3	4	4
Cyprinidae	100	267	183	0	0	0	0	0	0
White sucker	100	0	50	0	0	0	0	0	0
Burbot	0	0	0	0	0	0	2	0	1
Ninespine stickleback	33	0	17	0	0	0	1	0	1
Yellow perch	0	0	0	0	2	1	0	0	0
Unidentifiable	0	33	17	0	0	0	0	0	0
Overall	233	300	267	0	2	1	7	4	5

STATION V, 19 July 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2215	2225	Total	2245	2245	Total	2305	2315	Total
Vol. Filt. (m^3):	3.4	2.5	5.9	44.4	44.6	89.0	106.1	112.1	218.1
Johnny darter	0	0	0	0	2	1	0	0	0
Logperch	59	200	119	36	78	57	2	0	1
Rainbow smelt	0	0	0	41	22	31	3	1	2
Alewife	0	0	0	0	0	0	0	1	<1
Cyprinidae	30	400	188	0	0	0	2	0	1
Common carp	0	0	0	0	0	0	0	1	<1
Emerald shiner	227	0	188	0	0	0	0	2	1
Spottail shiner	0	160	68	0	0	0	0	0	0
Unidentifiable	0	0	0	2	0	1	0	0	0
Trout-perch	0	0	0	7	2	4	0	0	0
Freshwater drum	0	0	0	2	4	3	0	0	0
Overall	416	760	563	115	157	136	7	4	6

Appendix Table K1. (Continued)

STATION VI, 19 and 20 July 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2355	0005	Total	0015	0015	Total	0040	0055	Total
Vol. Filt. (m^3):	4.1	3.9	8.0	38.3	32.0	70.2	102.1	94.0	196.1
Common carp	0	0	0	3	9	6	0	0	0
Johnny darter	0	0	0	13	13	13	3	1	2
Logperch	219	156	188	26	13	20	1	0	1
Percidae	24	0	12	0	0	0	0	0	0
Rainbow smelt	0	0	0	24	38	30	2	2	2
White sucker	24	0	12	0	0	0	0	0	0
Unidentifiable	24	26	25	0	0	0	0	0	0
Lepomis spp.	49	52	50	0	0	0	0	0	0
Cyprinidae	0	285	138	5	25	14	0	0	0
Emerald shiner	583	726	650	18	9	14	1	1	1
Spottail shiner	121	78	100	5	22	13	0	0	0
Trout-perch	0	0	0	5	3	4	0	0	0
Freshwater drum	0	0	0	0	3	1	0	0	0
Overall	1044	1322	1175	99	135	115	7	4	6

STATION VII, 20 July 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0220	0240	Total	0200	0200	Total	0115	0125	Total
Vol. Filt. (m^3):	4.2	2.9	7.1	49.2	48.5	97.6	104.2	102.2	206.3
Yellow perch	0	0	0	2	0	1	0	0	0
Johnny darter	0	0	0	2	4	3	0	1	<1
Logperch	24	35	28	77	45	61	0	0	0
Rainbow smelt	0	0	0	0	0	0	1	2	1
Trout-perch	24	35	28	4	8	6	0	0	0
Lepomis spp.	24	35	28	0	2	1	0	0	0
Cottus spp.	0	0	0	0	0	0	0	2	1
Cyprinidae	855	242	605	0	0	0	1	1	1
Emerald shiner	0	0	0	100	76	88	0	2	1
Spottail shiner	0	0	0	2	0	1	0	0	0
Overall	926	346	690	187	136	162	2	8	5

Appendix Table K1. (Continued)

STATION I, LAKE SUPERIOR, 26 July 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2155	2205	Total	2215	2215	Total	2235	2250	Total
Vol. Filt. (m^3):	3.3	2.5	5.8	51.8	55.7	107.5	91.4	87.3	178.7
Rainbow smelt	0	0	0	6	5	6	2	1	2
Cyprinidae	544	597	567	2	0	1	3	0	2
White sucker	121	40	86	0	0	0	0	0	0
Burbot	0	0	0	0	0	0	1	0	1
Ninespine stickleback	0	0	0	0	0	0	4	1	3
Johnny darter	30	0	17	4	13	8	0	0	0
Yellow perch	0	0	0	2	7	5	0	0	0
Logperch	30	0	17	4	13	8	0	0	0
Lepomis sp.	0	0	0	0	4	2	0	0	0
Unidentifiable	0	0	0	2	2	2	0	0	0
Overall	726	637	688	19	43	32	11	2	7

STATION II, 29 July 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2335	2340	Total	2350	2355	Total	2331	2349	Total
Vol. Filt. (m^3):	3.5	3.4	6.9	44.7	45.6	90.3	102.1	90.5	192.7
Alewife	0	0	0	2	0	1	0	0	0
Rainbow smelt	0	0	0	2	0	1	3	2	3
Common carp	0	146	73	4	0	2	0	3	2
Cyprinidae	202	438	320	27	11	19	0	0	0
Trout-perch	0	0	0	4	0	2	0	0	0
Johnny darter	29	0	15	0	2	1	2	1	2
Yellow perch	87	0	44	0	0	0	0	0	0
Logperch	58	175	116	4	2	3	2	0	1
Lepomis sp.	231	263	247	0	0	0	0	0	0
Overall	607	1023	814	45	15	30	7	7	7

Appendix Table K1. (Continued)

STATION III, 29 July 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2240	2245	Total	2300	2305	Total	2240	2250	Total
Vol. Filt. (m^3):	2.8	2.4	5.2	45.1	45.1	90.1	113.4	89.7	203.1
Rainbow smelt	0	0	0	7	0	3	0	1	<1
Common carp	36	0	19	0	0	0	0	0	0
Cyprinidae	2205	575	1442	2	2	2	0	0	0
Trout-perch	0	0	0	0	4	2	0	1	<1
Johnny darter	0	0	0	0	0	0	2	1	1
Logperch	0	0	0	0	7	3	0	0	0
Lepomis sp.	3687	89	1999	2	0	1	0	0	0
Unidentifiable	36	0	19	0	0	0	0	0	0
Overall	5964	657	3479	11	13	12	2	3	2

STATION IV, 29 July 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2150	2155	Total	2210	2215	Total	2159	2209	Total
Vol. Filt. (m^3):	2.5	3.4	5.9	52.4	46.8	[illegible]	133.1	94.4	227.5
Alewife	0	0	0	0	2	1	0	0	0
Rainbow smelt	0	0	0	13	15	14	0	1	<1
Common carp	0	0	0	0	0	0	0	1	<1
Cyprinidae	888	1006	956	4	2	3	0	1	<1
White sucker	40	59	51	0	0	0	0	0	0
Johnny darter	0	0	0	23	0	12	5	2	4
Yellow perch	40	0	17	2	2	2	0	0	0
Logperch	0	0	0	48	21	47	0	0	0
Lepomis sp.	121	177	154	0	0	0	0	0	0
Overall	1090	1242	1178	90	68	80	5	5	5

STATION I, LAKE SUPERIOR, 12 August 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2135	2140	Total	2155	2155	Total	2237	2240	Total
Vol. Filt. (m^3):	1.4	2.8	4.2	61.1*	61.1	122.2	95.4	89.3	184.7
Rainbow smelt	0	0	0	2	0	1	0	0	0
Cyprinidae	0	142	95	0	0	0	0	0	0
Burbot	0	35	24	0	0	0	0	0	0
Ninespine stickleback	0	0	0	2	0	1	0	0	0
Johnny darter	0	0	0	2	0	1	0	1	1
Overall	0	177	119	5	0	2	0	1	1

*Probable flowmeter malfunction; volume filtered is estimate

Appendix Table K1. (Continued)

STATION V, 12 August 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2130	2135	Total	2145	2145	Total	2215	2230	Total
Vol. Filt. (m^3):	3.2	2.9	6.1	42.3	42.3	84.6	96.3	104.9	201.2
Johnny darter	0	0	0	0	0	0	1	0	<1
Logperch	95	102	98	80	54	67	0	0	0
Percidae	0	0	0	0	0	0	0	1	<1
Rainbow smelt	0	0	0	9	7	8	0	1	<1
Trout-perch	63	68	66	0	7	4	1	0	<1
Lepomis spp.	0	0	0	2	0	1	0	0	0
Alewife	0	0	0	0	0	0	1	0	<1
Cyprinidae	884	239	574	322	329	325	0	2	1
Emerald shiner	0	0	0	0	0	0	0	1	<1
Golden shiner	32	0	16	0	0	0	0	0	0
Overall	1074	410	755	414	397	406	3	5	4

STATION VI, 12 August 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2345	2350	Total	2330	2330	Total	2250	2300	Total
Vol. Filt. (m^3):	2.2	3.8	6.0	40.7	40.7	81.3	108.8	102.2	211.1
Logperch	0	0	0	44	47	45	0	2	1
Percidae	45	0	17	0	0	0	0	0	0
Rainbow smelt	0	0	0	0	2	1	0	1	<1
Unidentifiable	318	0	117	0	0	0	0	0	0
Trout-perch	136	0	50	20	15	17	2	0	1
Cyprinidae	3539	1529	2268	187	182	184	0	0	0
Overall	4038	1529	2451	251	246	248	2	3	2

Appendix Table K1. (Continued)

STATION VII, 13 August 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0105	0110	Total	0050	0050	Total	0025	0035	Total
Vol. Filt. (m^3):	2.6	3.0	5.6	37.6	37.6	73.6	95.5	91.1	186.5
Logperch	189	100	142	152	108	130	0	0	0
Rainbow smelt	0	0	0	5	6	5	0	0	0
Unidentifiable	0	0	0	0	6	3	0	0	0
Trout-perch	0	0	0	16	6	11	0	0	0
Rock bass	0	33	18	0	0	0	0	0	0
Alewife	0	0	0	0	17	8	0	0	0
Gizzard shad	0	0	0	3	0	1	0	0	0
Cyprinidae	872	569	711	1628	1812	1718	0	0	0
Emerald shiner	0	167	89	90	170	129	1	0	1
Spottail shiner	76	167	124	5	17	11	0	0	0
Mimic shiner	0	33	18	0	0	0	0	0	0
Pimephales spp.	76	33	53	0	0	0	0	0	0
Overall	1213	1105	1155	1899	2140	2017	1	0	1

STATION II, 16 August 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2320	2325	Total	2335	2340	Total	2320	2335	Total
Vol. Filt. (m^3):	1.4	1.6	3.0	45.2	44.1	89.2	102.2	103.6	205.9
Rainbow smelt	0	0	0	0	2	1	0	0	0
Cyprinidae	281	185	230	0	0	0	0	0	0
Johnny darter	70	0	33	0	0	0	0	0	0
Logperch	211	62	131	0	5	2	0	0	0
Lepomis sp.	493	616	558	0	0	0	0	0	0
Overall	1056	862	952	0	7	3	0	0	0

STATION III, 16 August 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2220	2220	Total	2240	2245	Total	2215	2240	Total
Vol. Filt. (m^3):	3.0	3.1	6.0	44.2	48.2	92.4	88.7	94.8	183.5
Alewife	0	0	0	0	2	1	0	0	0
Rainbow smelt	0	0	0	7	0	3	0	0	0
Cyprinidae	2357	491	1411	0	4	2	0	0	0
Trout-perch	0	33	17	0	2	1	0	0	0
Logperch	269	196	232	0	0	0	0	0	0
Rock bass	34	0	17	0	0	0	0	0	0
Lepomis sp.	1111	1669	1394	2	2	2	0	1	1
Cottus sp.	0	0	0	2	0	1	0	0	0
Overall	3772	2388	3070	11	10	11	0	1	1

Appendix Table K1. (Continued)

STATION IV, 16 August 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2135	2135	Total	2145	2150	Total	2110	2145	Total
Vol. Filt. (m^3):	2.4	2.7	5.1	51.2	52.0	103.2	113.1	85.2	198.3
Rainbow smelt	0	0	0	4	10	7	0	0	0
Cyprinidae	967	110	509	0	0	0	0	0	0
Logperch	0	0	0	10	8	9	0	0	0
Lepomis sp.	0	110	59	0	0	0	0	0	0
Overall	967	220	568	14	17	16	0	0	0

STATION I, LAKE SUPERIOR, 24 August 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2150	2153	Total	2205	2210	Total	2230	2250	Total
Vol. Filt. (m^3):	2.5	1.8	4.3	51.9	54.2	106.1	84.6	70.7	155.3
Alewife	0	0	0	0	6	3	0	0	0
Rainbow smelt	0	0	0	0	0	0	1	0	1
Cyprinidae	118	113	116	2	0	1	0	0	0
Overall	118	113	116	2	6	4	1	0	1

STATION V, 24 August 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2135	2145	Total	2210	2210	Total	2230	2245	Total
Vol. Filt. (m^3):	3.3	3.0	6.4	10.7	44.8	55.5	93.5	104.2	197.7
Logperch	0	0	0	47	13	20	0	0	0
Rainbow smelt	0	0	0	9	2	4	0	0	0
Unidentifiable	0	0	0	0	2	2	0	0	0
Trout-perch	30	0	16	0	2	2	0	0	0
Cyprinidae	0	33	16	19	0	4	0	0	0
Emerald shiner	30	0	16	65	20	29	0	0	0
Spottail shiner	0	0	0	9	0	2	0	0	0
Mimic shiner	421	99	267	0	0	0	0	0	0
Overall	481	132	315	149	40	61	0	0	0

Appendix Table K1. (Continued)

STATION VI, 24 and 25 August 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2315	2325	Total	2335	2335	Total	0000	0010	Total
Vol. Filt. (m^3):	3.2	2.8	5.9	38.5	39.3	77.9	99.7	82.0	181.7
Logperch	0	0	0	57	38	48	0	1	1
Trout-perch	32	36	34	23	38	31	0	0	0
Cyprinidae	412	0	220	0	0	0	0	0	0
Emerald shiner	32	0	17	44	41	42	0	0	0
Mimic shiner	539	399	474	5	5	5	0	0	0
Overall	1014	436	744	130	122	126	0	1	1

STATION VII, 25 August 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0120	-	Total	0100	0100	Total	0030	0040	Total
Vol. Filt. (m^3):	2.7	-	2.7	46.4	46.4	92.8	76.8	84.0	160.8
Logperch	37	-	37	32	54	43	0	0	0
Rainbow smelt	0	-	0	2	0	1	0	0	0
Unidentifiable	0	-	0	19	13	16	0	0	0
Trout-perch	0	-	0	2	2	2	0	0	0
Rock bass	0	-	0	2	0	1	0	0	0
Alewife	0	-	0	2	4	3	0	0	0
Cyprinidae	481	-	481	317	604	460	0	0	0
Emerald shiner	0	-	0	688	638	663	0	1	1
Spottail shiner	74	-	74	0	6	3	0	0	0
Mimic shiner	444	-	444	0	6	3	0	0	0
Pimephales spp.	37	-	37	0	2	1	0	0	0
Overall	1073	-	1073	1065	1331	1198	0	1	1

STATION II, 25 August 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2230	2235	Total	2237	2242	Total	2230	2240	Total
Vol. Filt. (m^3):	2.6	2.6	5.2	51.9	50.1	102.0	56.2	50.3	106.5
Rainbow smelt	0	0	0	0	0	0	0	2	1
Cyprinidae	76	0	38	0	0	0	0	0	0
Trout-perch	0	0	0	4	0	2	0	0	0
Logperch	0	0	0	2	0	1	0	0	0
Unidentifiable	0	78	38	0	0	0	0	0	0
Overall	76	78	77	6	0	3	0	2	1

Appendix Table K1. (Continued)

STATION III, 25 August 1982

Tow Replicate:	P-1	*	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2145		Total	2155	2200	Total	2150	2200	Total
Vol. Filt. (m^3):	1.7		1.7	42.7	25.4	68.1	67.2	64.6	131.8
Rainbow smelt	0		0	14	24	18	NO LARVAE COLLECTED		
Cyprinidae	974		974	0	0	0			
Overall	974		974	14	24	18			

*No replicate

STATION IV, 25 August 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2105	2110	Total	2120	2125	Total	2105	2120	Total
Vol. Filt. (m^3):	1.7	2.5	4.3	51.0	54.6	105.6	61.8	52.8	114.6
Rainbow smelt	0	0	0	0	15	8	0	0	0
Cyprinidae	2816	472	1425	0	0	0	0	0	0
Johnny darter	0	39	23	0	0	0	0	0	0
Logperch	517	157	304	0	9	5	0	0	0
Lepomis sp.	1494	157	701	0	0	0	0	0	0
Overall	4828	827	2453	0	24	12	0	0	0

STATION II, 7 September 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2210	2210	Total	2225	2225	Total	2215	2225	Total
Vol. Filt. (m^3):	3.0	2.3	5.3	39.9	38.1	78.0	43.9	46.8	90.7
Cyprinidae	33	0	19	0	0	0	0	0	0
Logperch	33	0	19	0	0	0	0	0	0
Overall	66	0	38	0	0	0	0	0	0

STATION III, 7 September 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	
Time (h):	2125	2125	Total	2140	2140	Total	2130	2140	T
Vol. Filt. (m^3):	2.8	2.9	5.6	46.7	44.6	91.3	41.2	35.7	76.9
Rainbow smelt	36	0	18	24	16	20	0	0	0
Cyprinidae	36	0	18	0	0	0	0	0	0
Logperch	36	70	53	0	0	0	0	0	0
Lepomis sp.	0	35	18	0	0	0	0	0	0
Overall	108	104	106	24	16	20	0	0	0

Appendix Table K1. (Continued)

STATION IV, 7 September 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2040	2045	Total	2105	2110	Total	2050	2100	Total
Vol. Filt. (m^3):	3.0	3.1	6.2	41.9	43.4	85.3	38.1	41.9	80.0
Alewife	33	0	16	0	0	0	0	0	0
Cyprinidae	33	0	16	0	0	0	0	0	0
Logperch	494	64	275	0	0	0	0	0	0
Lepomis sp.	0	32	16	0	0	0	0	0	0
Overall	560	95	324	0	0	0	0	0	0

STATION V, 7 September 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2100	2105	Total	2120	2120	Total	2145	2155	Total
Vol. Filt. (m^3):	4.0	3.0	6.9	26.0	46.7	72.6	112.1	96.8	208.9
Logperch	0	0	0	8	4	6	0	0	0
Rainbow smelt	0	0	0	0	0	0	0	1	<1
Unidentifiable	0	0	0	4	0	1	0	0	0
Cyprinidae	25	0	14	8	0	3	0	0	0
Emerald shiner	51	0	29	35	21	26	0	0	0
Mimic shiner	177	68	130	4	0	1	0	0	0
Overall	253	68	174	58	26	37	0	1	<1

STATION VI, 7 September 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2330	2340	Total	2310	2310	Total	2230	2240	Total
Vol. Filt. (m^3):	2.6	1.7	4.3	43.9	38.6	82.5	96.2	103.6	199.8
Rainbow smelt	0	0	0	0	0	0	0	1	1
Trout-perch	0	0	0	0	3	1	0	1	1
Emerald shiner	0	0	0	2	3	2	0	0	0
Mimic shiner	0	59	23	0	0	0	0	0	0
Overall	0	59	23	2	5	4	0	2	1

Appendix Table K1. (Concluded)

STATION VII, 8 September 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0050	0100	Total	0040	0040	Total	0000	0010	Total
Vol. Filt. (m^3):	3.7	3.1	6.9	41.8	38.2	80.0	103.2	89.4	192.6
Logperch	0	32	15	74	16	46	0	0	0
Percidae	53	0	29	0	0	0	0	0	0
Rainbow smelt	0	0	0	7	3	5	0	1	1
Unidentifiable	80	0	44	0	0	0	0	0	0
Alewife	27	0	15	19	8	14	0	0	0
Cyprinidae	0	0	0	45	8	27	0	0	0
Emerald shiner	747	127	464	155	71	115	0	0	0
Mimic shiner	13024	859	7474	196	105	152	0	0	0
Pimephales spp.	133	32	87	2	0	1	0	0	0
Spottail shiner	53	0	29	0	0	0	0	0	0
Overall	14119	1050	8156	500	209	361	0	1	1

STATION I, LAKE SUPERIOR, 15 September 1982

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2030	2040	Total	2050	2050	Total	2115	2125	Total
Vol. Filt. (m^3):	1.3	1.8	3.1	48.3	50.6	98.8	43.5	39.4	82.9

NO LARVAE COLLECTED

Appendix Table K2. Density (No./100 m^3) of ichthyoplankton estimated from pull net collections in the littoral zone (P), in 0.5 m net collections near macrophyte beds (S), and in 1.0 m net collections in the navigation channel (C), St. Marys River, 1983.

STATION II, 20 April 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2050	2055	Total	2026	2026	Total	1955	2010	Total
Vol. Filt. (m^3):	3.7	3.6	7.3	64.1	65.1	129.2	51.6	46.4	97.9
Lake herring	0	28	14	0	0	0	0	0	0
Overall	0	28	14	0	0	0	0	0	0

STATION III, 21 April 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2210	2215	Total	2155	2155	Total	2130	2140	Total
Vol. Filt. (m^3):	2.7	3.1	5.8	54.9	54.6	109.5	67.0	76.9	143.9
Lake herring	412	32	208	0	0	0	0	0	0
Lake whitefish	150	0	69	0	0	0	0	0	0
Burbot	0	0	0	0	4	2	3	0	1
Overall	562	32	278	0	4	2	3	0	1

STATION IV, 21 April 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2100	2105	Total	2045	2045	Total	2010	2030	Total
Vol. Filt. (m^3):	3.5	3.7	7.2	46.4	48.4	94.7	68.2	77.8	146.0
Lake herring	0	27	14	0	0	0	0	0	0
Burbot	0	0	0	6	4	5	3	3	3
Overall	0	27	14	6	4	5	3	3	3

STATION I, LAKE SUPERIOR, 22 April 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2055	2055	Total	2030	2030	Total	2045	2045	Total
Vol. Filt. (m^3):	4.4	3.2	7.6	46.1	45.5	91.6	60.4	84.3	144.7
Lake whitefish	317	125	236	2	0	1	0	0	0
Overall	317	125	236	2	0	1	0	0	0

Appendix Table K2. (Continued)

STATION V, 22 April 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2030	2045	Total	2100	2100	Total	2130	2145	Total
Vol. Filt. (m^3):	3.1	2.8	5.9	36.2	36.0	72.2	91.2	119.1	210.3
Lake herring	33	0	17	8	6	7	0	0	0
Lake whitefish	0	0	0	3	0	1	0	0	0
Overall	33	0	17	11	6	8	0	0	0

STATION VI, 22 April 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2300	2310	Total	2245	2245	Total	2210	2220	Total
Vol. Filt. (m^3):	4.4	4.0	8.4	42.7	43.8	86.5	115.4	108.7	224.1
Burbot	0	0	0	0	0	0	5	6	5
Lake herring	0	0	0	12	2	7	0	0	0
Overall	0	0	0	12	2	7	5	6	5

STATION VII, 22 April 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2200	2210	Total	2145	2145	Total	2045	2055	Total
Vol. Filt. (m^3):	2.1	2.5	4.6	46.0	46.0	92.0	82.0	91.0	173.0
Burbot	0	0	0	0	0	0	12	1	6
Lake herring	144	40	87	2	4	3	0	0	0
Unidentifiable	0	40	22	0	0	0	0	0	0
Overall	144	80	109	2	4	3	12	1	6

STATION V, 25 April 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2330	2340	Total	2310	2310	Total	2230	2240	Total
Vol. Filt. (m^3):	3.8	3.6	7.4	43.1	43.0	86.1	101.4	124.9	226.3
Burbot	0	0	0	0	0	0	2	1	1
Lake herring	0	0	0	7	14	10	0	0	0
Lake whitefish	0	0	0	28	28	28	0	0	0
Overall	0	0	0	35	42	38	2	1	1

Appendix Table K2. (Continued)

STATION VI, 25 and 26 April 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0030	0040	Total	0015	0015	Total	2145	2200	Total
Vol. Filt. (m^3):	3.4	4.0	7.4	38.2	38.0	76.2	111.5	92.3	203.8
Burbot	0	0	0	0	0	0	13	6	10
Lake herring	0	0	0	0	3	1	0	0	0
Overall	0	0	0	0	3	1	13	6	10

STATION VII, 25 and 26 April 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0130	0145	Total	0100	0100	Total	2115	2130	Total
Vol. Filt. (m^3):	3.6	3.4	7.4	39.0	38.1	77.0	99.0	93.2	192.2
Burbot	0	0	0	0	0	0	6	20	13
Lake herring	28	58	43	38	37	38	0	1	1
Lake whitefish	0	0	0	0	3	1	0	0	0
Overall	28	58	43	38	39	39	6	21	14

STATION I, LAKE SUPERIOR, 26 April 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2040	2050	Total	2105	2105	Total	2120	2130	Total
Vol. Filt. (m^3):	2.5	2.5	5.0	44.8	44.4	89.2	82.4	71.0	153.4
Lake whitefish	40	79	60	4	2	3	0	0	0
Overall	40	79	60	4	2	3	0	0	0

STATION II, 27 April 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2155	2205	Total	2135	2135	Total	2110	2120	Total
Vol. Filt. (m^3):	2.6	1.8	4.4	50.4	52.6	103.0	74.3	58.2	132.5
Lake herring	0	0	0	2	2	2	0	0	0
Burbot	0	0	0	0	0	0	5	2	4
Overall	0	0	0	2	2	2	5	2	4

Appendix Table K2. (Continued)

STATION II, 3 and 5[a] May 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1[a]	C-2[a]	C[a]
Time (h):	0005	0010	Total	2350	2350	Total	2200	2210	Total
Vol. Filt. (m^3):	4.1	4.5	8.5	43.1	44.3	87.4	93.7	77.2	170.9
Lake herring	0	22	12	0	0	0	0	0	0
Lake whitefish	49	22	35	0	0	0	0	0	0
Burbot	0	0	0	0	0	0	11	5	8
Overall	49	45	47	0	0	0	11	5	8

STATION III, 3 and 5[a] May 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1[a]	C-2[a]	C[a]
Time (h):	2250	2255	Total	2230	2230	Total	2120	2130	Total
Vol. Filt. (m^3):	3.8	3.9	7.7	50.1	50.8	100.9	79.8	75.1	154.9
Rainbow smelt	0	0	0	0	0	0	30	5	18
Burbot	0	0	0	8	47	28	29	11	20
Overall	0	0	0	8	47	28	59	16	38

STATION IV, 3 May 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2205	2210	Total	2148	2148	Total	2118	2125	Total
Vol. Filt. (m^3):	3.5	4.2	7.6	63.4	61.9	125.3	102.5	81.6	184.1
Lake herring	29	0	13	3	2	2	0	0	0
Burbot	0	0	0	17	13	15	8	9	8
Overall	29	0	13	21	15	18	8	9	8

STATION I, LAKE SUPERIOR, 5 May 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2117	2127	Total	2140	2140	Total	2045	2055	Total
Vol. Filt. (m^3):	2.4	2.6	5.1	55.5	55.3	110.8	97.2	104.4	201.6
Lake whitefish	125	189	158	5	0	3	0	0	0
Burbot	0	0	0	0	0	0	1	0	<1
Overall	125	189	158	5	0	3	1	0	<1

Appendix Table K2. (Continued)

STATION V, 5 May 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2315	2325	Total	2300	2300	Total	2230	2245	Total
Vol. Filt. (m^3):	2.8	2.7	5.5	40.5	39.8	80.3	99.0	98.2	197.2
Burbot	0	0	0	2	0	1	32	13	23
Lake herring	0	37	18	17	10	14	0	0	0
Lake whitefish	0	37	18	7	5	6	0	0	0
Overall	0	37	18	27	15	21	32	13	23

STATION VI, 5 and 6 May 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0015	0015	Total	2350	2350	Total	2200	2210	Total
Vol. Filt. (m^3):	2.3	2.4	4.6	48.6	47.6	96.2	97.5	95.8	193.3
Burbot	0	0	0	0	0	0	13	7	10
Lake herring	0	0	0	4	0	2	0	0	0
Overall	0	0	0	4	0	2	13	7	10

STATION VII, 5 and 6 May 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0045	0055	Total	0050	0050	Total	2130	2130	Total
Vol. Filt. (m^3):	3.4	3.4	6.8	41.4	40.3	81.8	106.8	109.1	215.9
Burbot	0	0	0	0	0	0	16	13	14
Deepwater sculpin	0	0	0	0	0	0	0	1	<1
Lake herring	0	0	0	22	20	21	0	0	0
Overall	0	0	0	22	20	21	16	14	15

STATION V, 8 May 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2248	2253	Total	2232	2232	Total	2200	2210	Total
Vol. Filt. (m^3):	3.8	3.2	7.0	44.7	42.2	86.9	94.8	111.3	206.0
Burbot	0	0	0	0	0	0	5	12	9
Lake herring	52	31	43	4	5	5	0	0	0
Lake whitefish	26	62	43	2	0	1	0	0	0
Overall	78	93	85	7	5	6	5	12	9

Appendix Table K2 . (Continued)

STATION VI, 8 May 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2343	2350	Total	2330	2330	Total	2130	2140	Total
Vol. Filt. (m^3):	2.9	3.1	6.0	44.3	41.7	86.0	88.8	113.7	202.4
Burbot	0	0	0	0	0	0	10	12	11
Lake herring	0	0	0	0	10	5	0	0	0
Lake whitefish	0	0	0	0	5	2	0	0	0
Overall	0	0	0	0	14	7	10	12	11

STATION VII, 8 May 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2250	2255	Total	2315	2315	Total	2200	2215	Total
Vol. Filt. (m^3):	3.5	3.4	6.9	49.5	49.8	99.2	121.5	121.5	243.0
Burbot	0	0	0	0	0	0	11	16	13
Deepwater sculpin	0	0	0	0	0	0	1	0	<1
Lake herring	0	59	29	0	6	3	0	0	0
Overall	0	59	29	0	6	3	12	16	14

STATION I, LAKE SUPERIOR, 9 May 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2103	2111	Total	2120	2126	Total	2146	2154	Total
Vol. Filt. (m^3):	2.9	3.0	6.0	45.5	45.9	91.4	78.2	70.1	148.3
Lake whitefish	888	99	485	0	0	0	0	0	0
Burbot	0	0	0	0	2	1	0	11	5
Overall	888	99	485	0	2	1	0	11	5

STATION II, 10 and 11 May 1983

Tow Replicate :	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0020	0025	Total	0005	0005	Total	2340	2350	Total
Vol. Filt. (m^3) :	3.8	4.0	7.8	58.3	52.7	111.0	75.6	82.1	157.8
Lake whitefish	26	0	13	0	0	0	0	0	0
Burbot	0	0	0	0	2	1	8	6	7
Overall	26	0	13	0	2	1	8	6	7

Appendix Table K2. (Continued)

STATION III, 10 May 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2305	2310	Total	2245	2245	Total	2225	2232	Total
Vol. Filt. (m^3):	3.5	3.6	7.2	47.9	48.6	96.5	79.0	56.6	135.6
Lake herring	0	0	0	2	0	1	1	0	1
Rainbow smelt	0	0	0	0	0	0	25	5	17
Burbot	0	0	0	21	14	18	11	14	13
Overall	0	0	0	23	14	19	38	19	30

STATION IV, 10 May 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2200	2205	Total	2145	2145	Total	2120	2128	Total
Vol. Filt. (m^3):	3.3	3.2	6.5	49.2	48.9	98.1	81.2	81.3	162.6
Lake herring	0	31	15	0	0	0	0	0	0
Lake whitefish	31	0	15	0	0	0	0	0	0
Burbot	0	0	0	10	27	18	6	2	4
Deepwater sculpin	0	0	0	0	0	0	0	1	1
Overall	31	31	31	10	27	18	6	4	5

STATION I, LAKE SUPERIOR, 16 May 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2140	2150	Total	2205	2205	Total	2115	2122	Total
Vol. Filt. (m^3):	3.1	2.8	5.9	54.0	54.6	108.6	81.6	82.6	164.2
Burbot	0	36	17	0	0	0	27	28	27
Overall	0	36	17	0	0	0	27	28	27

STATION IV, 17 May 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2205	2210	Total	2150	2150	Total	2125	2135	Total
Vol. Filt. (m^3):	2.7	2.7	5.4	35.5	35.7	71.2	90.3	87.6	177.9
Lake herring	0	38	19	0	0	0	0	0	0
Coregonus sp.	37	0	19	0	0	0	0	0	0
Rainbow smelt	0	0	0	0	3	1	21	9	15
Burbot	0	0	0	6	0	3	9	3	6
Overall	37	38	37	6	3	4	30	13	21

Appendix Table K2 . (Continued)

STATION V, 17 May 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2345	2355	Total	2325	2323	Total	2250	2260	Total
Vol. Filt. (m^3):	3.1	2.7	5.8	46.4	46.0	92.4	111.5	114.2	225.7
Burbot	0	0	0	0	0	0	1	4	2
Rainbow smelt	0	38	17	50	61	55	0	1	<1
Deepwater sculpin	0	0	0	0	0	0	1	0	<1
Yellow perch	32	113	69	13	15	14	0	0	0
Lake herring	0	0	0	11	2	6	0	0	0
Trout-perch	0	0	0	4	0	2	0	0	0
Overall	32	150	87	78	78	78	2	4	3

STATION VI, 17 and 18 May 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0030	0040	Total	0045	0045	Total	2215	2225	Total
Vol. Filt. (m^3):	3.2	3.6	6.8	37.2	36.4	73.6	115.0	104.9	219.9
Yellow perch	0	0	0	0	3	1	2	0	1
Burbot	0	0	0	0	0	0	5	1	3
Rainbow smelt	314	140	222	48	55	52	0	0	0
Lake herring	0	0	0	3	3	3	0	0	0
Unidentifiable	0	0	0	0	3	1	0	0	0
Overall	314	140	222	51	63	57	7	1	4

STATION VII, 17 and 18 May 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0115	0125	Total	0130	0130	Total	2145	2155	Total
Vol. Filt. (m^3):	2.6	2.1	4.7	39.7	39.5	79.2	87.6	112.8	200.4
Yellow perch	0	0	0	3	3	3	3	4	3
Burbot	0	0	0	0	0	0	5	4	4
Rainbow smelt	0	47	21	15	15	15	1	3	2
Lake herring	0	0	0	28	33	30	0	0	0
Lake whitefish	0	0	0	8	3	5	0	0	0
Overall	0	47	21	53	53	53	9	10	9

Appendix Table K2. (Continued)

STATION II, 24 May 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2240	2242	Total	2220	2220	Total	2200	2210	Total
Vol. Filt. (m^3):	5.9	2.8	8.7	42.9	43.1	85.9	90.5	89.3	179.8
Lake herring	0	0	0	0	0	0	1	0	1
Lake whitefish	17	0	11	0	0	0	0	0	0
Rainbow smelt	0	0	0	7	0	3	2	1	2
Burbot	0	0	0	2	2	2	7	1	4
Yellow perch	0	35	11	0	0	0	0	0	0
Overall	17	35	23	9	2	6	10	2	6

STATION III, 26 May 1983

Tow Replicate:	P-1	P-2	P	-	-	-	C-1	C-2	C
Time (h):	2235	2240	Total	-	-	-	2215	2225	Total
Vol. Filt. (m^3):	4.4	3.9	8.4	-	-	-	118.5	103.5	222.0
Rainbow smelt	0	0	0	-	-	-	20	14	18
Burbot	0	0	0	-	-	-	2	3	2
Overall	0	0	0	-	-	-	23	17	20

STATION IV, 26 May 1983

Tow Replicate:	P-1	P-2	P	-	-	-	C-1	C-2	C
Time (h):	2305	2310	Total	-	-	-	2325	2332	Total
Vol. Filt. (m^3):	3.5	3.5	7.0	-	-	-	108.0	116.4	224.4
Lake herring	29	0	14	-	-	-	0	0	0
Rainbow smelt	0	0	0	-	-	-	5	6	5
Burbot	0	0	0	-	-	-	12	7	9
Overall	29	0	14	-	-	-	17	13	15

STATION II, 31 May and 1 June 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0035	0038	Total	0020	0020	Total	2355	0005	Total
Vol. Filt. (m^3):	1.9	3.0	4.9	56.2	58.2	114.4	90.8	78.4	169.2
Rainbow smelt	0	0	0	7	12	10	9	9	9
Burbot	0	34	20	7	7	7	1	8	4
Yellow perch	462	372	408	0	0	0	0	0	0
Overall	462	406	428	14	19	17	10	17	13

Appendix Table K2. (Continued)

STATION III, 31 May 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2325	2330	Total	2315	2315	Total	2250	2300	Total
Vol. Filt. (m^3):	3.7	3.7	7.3	47.9	48.0	96.0	92.8	80.8	173.6
Rainbow smelt	0	0	0	0	0	0	20	35	27
Burbot	0	0	0	2	0	1	3	2	3
Yellow perch	0	0	0	0	0	0	1	0	1
Overall	0	0	0	2	0	1	25	37	31

STATION IV, 31 May 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2222	2227	Total	2210	2210	Total	2145	2155	Total
Vol. Filt. (m^3):	3.7	3.5	7.2	50.7	52.5	103.2	97.7	95.4	193.0
Rainbow smelt	0	0	0	2	4	3	13	31	22
Burbot	0	0	0	0	0	0	12	2	7
Yellow perch	535	521	528	12	13	13	0	0	0
Overall	535	521	528	14	17	15	25	34	29

STATION I, LAKE SUPERIOR, 1 June 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2215	2223	Total	2250	2250	Total	2140	2153	Total
Vol. Filt. (m^3):	3.0	3.4	6.5	46.0	46.6	92.7	96.2	97.6	193.8
Rainbow smelt	0	0	0	17	28	23	0	0	0
Burbot	0	0	0	0	2	1	2	3	3
Overall	0	0	0	17	30	24	2	3	3

STATION V, 3 and 4 June 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0000	0010	Total	2345	2345	Total	2310	2320	Total
Vol. Filt. (m^3):	3.0	2.3	5.4	47.8	48.6	96.4	49.5	53.8	103.3
Yellow perch	1374	817	1133	56	80	68	2	0	1
Logperch	164	43	111	2	0	1	0	0	0
Rainbow smelt	0	0	0	6	8	7	160	158	159
Lake herring	0	0	0	2	0	1	2	0	1
Burbot	0	0	0	0	0	0	4	4	4
Overall	1538	860	1245	67	88	78	168	162	165

Appendix Table K2. (Continued)

STATION VI, 3 and 4 June 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0040	0045	Total	0100	0100	Total	2240	2250	Total
Vol. Filt. (m^3):	2.0	2.3	4.3	46.6	47.6	94.2	57.6	51.1	108.7
Yellow perch	767	1440	1131	11	11	11	2	4	3
Logperch	51	44	47	0	0	0	0	0	0
Rainbow smelt	0	0	0	2	11	6	191	869	510
Burbot	0	0	0	0	2	1	0	0	0
Overall	819	1484	1178	13	23	18	193	873	512

STATION VII, 3 and 4 June 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0125	0130	Total	0145	0145	Total	2210	2220	Total
Vol. Filt. (m^3):	2.2	2.6	4.8	42.1	42.0	84.1	67.7	56.4	124.1
Yellow perch	137	535	354	138	138	138	1	2	2
Burbot	0	0	0	0	0	0	4	0	2
Rainbow smelt	0	0	0	0	0	0	210	209	210
Unidentifiable	46	0	21	0	0	0	0	0	0
Overall	182	535	374	138	138	138	216	211	214

STATION III, 14 June 1983

Tow Replicate:	P-1	P-2	P	-	-	-	C-1	C-2	C
Time (h):	2236	2240	Total	-	-	-	2210	2221	Total
Vol. Filt. (m^3):	3.5	4.0	7.4	-	-	-	86.9	68.2	155.1
Lake herring	0	0	0	-	-	-	1	0	1
Rainbow smelt	0	0	0	-	-	-	1895	2158	2011
Common carp	0	0	0	-	-	-	1	0	1
Overall	0	0	0	-	-	-	1897	2158	2012

STATION IV, 14 June 1983

Tow Replicate:	P-1	P-2	P	-	-	-	C-1	C-2	C
Time (h):	2335	2338	Total	-	-	-	2305	2323	Total
Vol. Filt. (m^3):	2.3	2.3	4.7	-	-	-	91.5	60.2	151.6
Rainbow smelt	128	0	64	-	-	-	628	1318	901
Yellow perch	43	0	21	-	-	-	0	2	1
Overall	170	0	86	-	-	-	628	1320	902

Appendix Table K2. (Continued)

STATION I, LAKE SUPERIOR, 15 June 1983

Tow Replicate:	P-1	P-2	P	-	-	-	C-1	C-2	C
Time (h):	2210	2215	Total	-	-	-	2133	2140	Total
Vol. Filt. (m^3):	1.5	1.9	3.4	-	-	-	90.7	89.6	180.3
Lake whitefish	0	0	0	-	-	-	1	0	1
Rainbow smelt	0	0	0	-	-	-	9	20	14
Burbot	0	0	0	-	-	-	0	3	2
Overall	0	0	0	-	-	-	10	23	17

STATION II, 15 June 1983

Tow Replicate:	P-1	P-2	P	-	-	-	C-1	C-2	C
Time (h):	0039	0042	Total	-	-	-	0015	0025	Total
Vol. Filt. (m^3):	4.0	2.9	7.0	-	-	-	86.3	89.8	176.1
Lake herring	0	0	0	-	-	-	3	0	2
Rainbow smelt	0	0	0	-	-	-	370	417	394
Common carp	50	0	29	-	-	-	0	0	0
Burbot	0	0	0	-	-	-	3	3	3
Johnny darter	25	0	14	-	-	-	0	0	0
Yellow perch	25	68	43	-	-	-	0	0	0
Unidentifiable	0	34	14	-	-	-	0	0	0
Overall	99	102	100	-	-	-	377	420	399

STATION V, 20 and 21 June 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0030	0040	Total	0000	0000	Total	2330	2345	Total
Vol. Filt. (m^3):	2.5	1.8	4.3	50.3	49.1	99.5	117.3	108.4	225.6
Yellow perch	320	0	184	24	10	17	1	0	<1
Johnny darter	40	0	23	10	6	8	0	0	0
Logperch	0	0	0	2	2	2	1	0	<1
Rainbow smelt	0	0	0	74	67	70	19	18	19
Cottus spp.	0	0	0	2	0	1	0	0	0
Spottail shiner	160	381	254	4	4	4	0	0	0
Overall	520	381	461	115	90	103	20	18	19

Appendix Table K2. (Continued)

STATION VI, 21 and 22 June 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0120	0125	Total	0100	0100	Total	2300	2310	Total
Vol. Filt. (m^3):	2.0	2.1	4.2	44.0	44.4	88.4	110.6	116.9	227.5
Yellow perch	0	0	0	2	0	1	1	0	<1
Johnny darter	0	0	0	9	0	5	0	0	0
Rainbow smelt	50	0	25	30	56	43	27	18	22
Lake whitefish	0	0	0	0	0	0	0	1	<1
Cyprinidae	0	48	25	0	0	0	0	0	0
Spottail shiner	1109	722	911	9	0	5	0	0	0
Overall	1160	771	961	50	56	53	28	19	23

STATION VII, 20 and 21 June 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0145	0155	Total	0200	0200	Total	2215	2230	Total
Vol. Filt. (m^3):	1.1	1.6	2.7	46.0	46.7	92.8	50.9	98.7	149.6
Yellow perch	92	63	75	13	11	12	0	0	0
Johnny darter	0	0	0	26	15	20	0	0	0
Rainbow smelt	0	0	0	0	4	2	61	21	35
Common carp	0	0	0	7	9	8	0	0	0
Overall	92	63	75	46	39	42	61	21	35

STATION III, 27 and 28 June 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0025	0030	Total	0010	0010	Total	2344	2356	Total
Vol. Filt. (m^3):	4.4	4.6	9.0	33.7	34.6	68.2	94.6	100.6	195.2
Lake herring	0	0	0	0	0	0	1	0	1
Rainbow smelt	23	9	11	6	0	3	8	9	9
Cyprinidae	46	9	22	0	0	0	0	0	0
Catostomidae	207	87	143	0	0	0	0	0	0
Yellow perch	184	173	178	3	0	1	0	0	0
Logperch	23	0	11	3	0	1	1	4	3
Lepomis sp.	299	43	167	3	0	1	0	0	0
Cottus sp.	0	0	0	0	0	0	1	0	1
Overall	782	303	535	15	0	7	12	13	12

Appendix Table K2. (Continued)

STATION IV, 27 June 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2311	2316	Total	2254	2254	Total	2220	2232	Total
Vol. Filt. (m^3):	3.4	3.8	7.2	51.6	53.2	104.8	25.5[a]	22.7	48.2
Rainbow smelt	0	0	0	17	8	12	12	53	31
Common carp	29	0	14	0	0	0	0	0	0
Cyprinidae	29	0	14	0	0	0	0	0	0
Catostomidae	29	26	28	0	0	0	0	0	0
Johnny darter	147	183	166	0	2	1	0	0	0
Yellow perch	59	0	28	14	13	13	4	9	6
Percina sp.	323	0	152	0	0	0	0	0	0
Percidae	0	262	138	0	0	0	0	0	0
Lepomis sp.	1087	734	900	0	0	0	0	0	0
Overall	1704	1205	1440	31	23	27	16	62	37

[a]Probable flowmeter malfunction.

STATION II, 28 June 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0143	0150	Total	0127	0127	Total	0103	0113	Total
Vol. Filt. (m^3):	4.2	4.5	8.7	43.3	43.9	87.2	88.3	81.5	169.8
Rainbow smelt	0	0	0	2	2	2	11	5	8
Common carp	143	401	276	0	0	0	0	0	0
Cyprinidae	119	134	127	0	0	0	0	0	0
Burbot	0	0	0	0	2	1	2	0	1
Trout-perch	0	0	0	0	2	1	0	0	0
Johnny darter	0	0	0	2	0	1	0	0	0
Yellow perch	71	22	46	2	2	2	0	2	1
Logperch	0	0	0	0	0	0	1	0	1
Rock bass	24	0	12	0	0	0	0	0	0
Lepomis sp.	24	0	12	0	0	0	0	0	0
Overall	380	557	472	7	9	8	15	7	11

STATION I, LAKE SUPERIOR, 29 June 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2230	2240	Total	2210	2210	Total	2145	2155	Total
Vol. Filt. (m^3):	1.3	2.6	3.9	52.0	53.2	105.2	117.6	92.9	210.5
Rainbow smelt	0	0	0	8	2	5	2	1	1
Cyprinidae	385	2375	1714	0	0	0	0	0	0
Catostomidae	0	38	26	0	0	0	0	0	0
Burbot	0	0	0	0	0	0	1	0	<1
Yellow perch	0	345	230	54	28	41	0	0	0
Logperch	77	0	26	0	0	0	0	0	0
Lepomis sp.	0	38	26	0	0	0	0	0	0
Deepwater sculpin	0	0	0	0	0	0	2	0	1
Overall	462	2797	2021	62	30	46	4	1	3

Appendix Table K2. (Continued)

STATION V, 7 and 8 July 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0030	0035	Total	0015	0015	Total	2320	2330	Total
Vol. Filt. (m^3):	2.0	1.8	3.9	59.0	39.3	98.3	91.1	79.4	170.5
Yellow perch	0	218	104	0	0	0	0	0	0
Johnny darter	0	55	26	0	8	3	5	5	5
Logperch	0	0	0	29	51	38	12	5	9
Rainbow smelt	0	0	0	7	15	10	0	0	0
White sucker	0	928	441	2	5	3	0	0	0
Trout-perch	0	0	0	0	0	0	1	1	1
Rock bass	248	818	519	0	0	0	0	0	0
Cottus spp.	0	0	0	0	0	0	4	3	4
Cyprinidae	941	436	701	32	13	24	3	0	2
Common carp	50	0	26	0	3	1	2	0	1
Emerald shiner	0	55	26	10	36	20	1	0	1
Spottail shiner	0	164	78	0	0	0	0	0	0
Golden shiner	50	0	26	2	0	1	0	0	0
Overall	1288	2674	1947	81	130	101	30	14	22

STATION VI, 7 and 8 July 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2130	0135	Total	0115	0115	Total	2250	2300	Total
Vol. Filt. (m^3):	2.3	2.3	3.6	50.5	50.0	100.5	62.5	94.9	157.4
Johnny darter		0	0	4	6	5	2	3	3
Logperch	54	0	27	12	18	15	0	1	1
Rainbow smelt	0	0	0	24	22	23	8	3	5
White sucker	17,485	13,400	15,097	0	0	0	0	0	0
Cottus spp.	0	0	0	0	0	0	3	0	1
Cyprinidae	0	8,954	4,400	14	4	9	2	1	1
Common carp	54	0	27	8	2	5	2	1	1
Emerald shiner	372	0	237	55	66	61	0	1	1
Spottail shiner	0	0	0	2	0	1	0	0	0
Mimic shiner	1,932	1,833	1,870	0	0	0	0	0	0
Overall	20,437	22,217	21,589	119	118	118	16	11	13

Appendix Table K2. (Continued)

STATION VII, 7 and 8 July 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0210	0215	Total	0230	0230	Total	2215	2225	Total
Vol. Filt. (m^3):	1.1	1.2	2.3	52.5	53.1	105.6	87.6	92.9	180.5
Yellow perch	0	0	0	0	2	1	0	0	0
Johnny darter	0	0	0	10	26	18	0	0	0
Logperch	185	244	217	111	96	103	0	0	0
Rainbow smelt	0	0	0	2	4	3	0	1	1
White sucker	1483	569	996	10	2	6	0	0	0
Rock bass	278	81	173	0	0	0	0	0	0
Alewife	0	0	0	0	0	0	3	2	3
Cyprinidae	7045	9,027	8,101	38	21	29	0	1	1
Common carp	278	0	130	21	28	25	0	0	0
Emerald shiner	463	569	520	48	40	44	0	0	0
Overall	9733	10,491	10,137	238	218	228	3	4	4

STATION III, 11 and 12 July 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0038	0043	Total	0020	0020	Total	2355	0006	Total
Vol. Filt. (m^3):	1.5	4.3	5.7	31.9	33.4	65.3	98.7	111.1	209.7
Rainbow smelt	335	94	157	6	0	3	12	10	11
Cyprinidae	403	94	174	0	0	0	0	0	0
White sucker	1476	3782	3184	0	0	0	0	0	0
Trout-perch	0	23	17	0	0	0	0	0	0
Johnny darter	0	0	0	3	0	2	1	1	1
Yellow perch	67	0	17	0	0	0	0	0	0
Logperch	268	70	122	0	0	0	0	1	<1
Lepomis sp.	872	376	505	0	0	0	1	0	<1
Cottus sp.	0	0	0	6	12	9	5	6	6
Overall	3421	4440	4176	16	12	14	19	18	19

Appendix Table K2. (Continued)

STATION IV, 11 July 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2312	2320	Total	2255	2255	Total	2230	2240	Total
Vol. Filt. (m^3):	2.8	2.6	5.4	37.3	39.6	76.9	82.9	95.8	178.7
Rainbow smelt	0	0	0	0	0	0	11	14	12
Cyprinidae	213	650	424	0	3	1	1	1	1
White sucker	2382	4588	3445	3	8	5	0	0	0
Trout-perch	0	0	0	0	3	1	1	1	1
Johnny darter	0	0	0	11	18	14	1	0	1
Yellow perch	36	0	18	0	0	0	0	0	0
Logperch	178	191	184	75	53	64	1	0	1
Lepomis sp.	355	115	239	0	0	0	0	1	1
Cottus sp.	0	0	0	8	15	12	16	7	11
Overall	3164	5543	4310	96	99	98	31	24	27

STATION II, 12 and 14[a] July 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1[a]	C-2[a]	C[a]
Time (h):	0140	0144	Total	0122	0122	Total	2215	2225	Total
Vol. Filt. (m^3):	3.9	4.9	8.8	34.9	35.5	70.4	97.7	102.2	199.9
Rainbow smelt	0	0	0	0	0	0	1	4	3
Cyprinidae	103	20	79	11	6	9	0	0	0
White sucker	26	0	11	0	3	1	0	0	0
Trout-perch	26	0	11	0	0	0	0	0	0
Ninespine stickleback	0	0	0	0	0	0	0	1	1
Johnny darter	0	20	11	3	0	1	0	0	0
Yellow perch	77	20	45	3	0	1	1	0	1
Logperch	129	81	102	9	6	7	0	0	0
Rock bass	0	0	0	3	0	1	0	0	0
Lepomis sp.	180	41	102	3	0	1	0	0	0
Cottus sp.	0	0	0	0	0	0	0	1	1
Overall	593	182	363	32	14	23	2	6	4

Appendix Table K2. (Continued)

STATION I, LAKE SUPERIOR, 13 July 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2157	2203	Total	2223	2223	Total	2233	2244	Total
Vol. Filt. (m^3):	0.3[a]	2.9	3.2	35.4	35.0	70.4	66.6	91.1	157.6
Rainbow smelt	0	0	0	8	0	4	6	1	3
Cyprinidae	0	239	217	45	26	36	0	0	0
Catostomidae	0	0	0	0	0	0	0	1	1
Ninespine stickleback	0	0	0	0	0	0	0	1	1
Yellow perch	0	0	0	534	277	406	0	0	0
Logperch	0	0	0	48	180	114	0	1	1
Lepomis sp.	345	0	31	3	0	1	0	0	0
Overall	345	239	248	638	483	561	6	4	5

[a]Possible flowmeter malfunction.

STATION V, 20 and 21 July 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2345	2355	Total	2330	2330	Total	0020	0040	Total
Vol. Filt. (m^3):	2.2	2.0	4.2	49.0	49.9	98.9	96.3	98.8	195.1
Yellow perch	0	49	24	0	0	0	0	0	0
Johnny darter	0	0	0	2	2	2	1	2	2
Logperch	0	0	0	6	2	4	0	0	0
Rainbow smelt	0	0	0	0	0	0	0	5	3
White sucker	46	0	24	0	0	0	0	0	0
Lepomis spp.	1103	98	616	0	2	1	0	0	0
Rock bass	644	293	474	6	4	5	0	0	0
Pimephales spp.	46	147	95	0	0	0	0	0	0
Alewife	0	0	0	2	2	2	1	1	1
Gizzard shad	0	0	0	4	0	2	0	0	0
Cottus spp.	0	0	0	0	0	0	1	3	2
Cyprinidae	690	98	403	2	2	2	6	5	6
Emerald shiner	322	49	189	294	220	257	21	54	37
Spottail shiner	644	0	332	2	0	1	0	0	0
Mimic shiner	46	0	24	0	0	0	0	0	0
Golden shiner	184	0	95	0	0	0	0	0	0
Overall	3724	733	2274	318	234	276	30	70	50

Appendix Table K2. (Continued)

STATION VI, 20 and 21 July 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0100	0110	Total	0050	0050	Total	2245	2255	Total
Vol. Filt. (m^3):	2.9	3.1	6.0	41.4	42.3	83.7	101.4	101.0	202.4
Johnny darter	0	0	0	15	12	13	1	2	1
Logperch	34	0	17	0	0	0	0	0	0
Rainbow smelt	0	0	0	0	0	0	2	3	2
White sucker	0	0	0	2	0	1	0	0	0
Gizzard shad	34	0	17	0	0	0	0	0	0
Cottus spp.	0	0	0	0	0	0	1	0	<1
Cyprinidae	684	677	680	5	0	2	1	2	1
Emerald shiner	1232	967	1095	12	31	21	8	9	8
Common carp	239	32	133	22	14	18	0	0	0
Spottail shiner	582	193	382	0	2	1	0	0	0
Overall	2805	1869	2323	56	59	57	13	16	14

STATION VII, 20 and 21 July 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0130	0140	Total	0200	0200	Total	2200	2210	Total
Vol. Filt. (m^3):	2.4	2.1	4.4	44.5	45.7	90.2	89.9	88.9	178.8
Johnny darter	0	0	0	0	2	1	0	1	1
Logperch	0	0	0	0	0	0	1	0	1
Rainbow smelt	0	0	0	0	0	0	0	2	1
White sucker	127	1263	655	4	4	4	0	0	0
Unidentifiable	0	0	0	4	0	2	0	0	0
Trout-perch	0	0	0	4	0	2	0	0	0
Lepomis spp.	0	291	136	0	0	0	0	0	0
Rock bass	42	631	316	2	0	1	0	0	0
Pimephales spp.	338	146	249	0	0	0	0	0	0
Alewife	0	0	0	0	0	0	4	8	6
Gizzard shad	0	0	0	0	2	1	0	0	0
Cottus spp.	0	0	0	0	0	0	1	0	1
Cyprinidae	423	6265	3141	13	11	12	1	5	3
Common carp	0	0	0	4	2	3	0	0	0
Emerald shiner	42	0	23	47	66	57	3	1	2
Spottail shiner	211	4274	2102	0	0	0	0	0	0
Golden shiner	85	437	249	0	0	0	0	0	0
Overall	1268	13307	6869	81	88	84	11	17	14

Appendix Table K2. (Continued)

STATION III, 25 July 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	-	-	-
Time (h):	2325	2329	Total	2306	2306	Total	-	-	-
Vol. Filt. (m^3):	4.0	5.6	9.6	38.5	37.9	76.4	-	-	-
Rainbow smelt	0	0	0	3	3	3	-	-	-
Cyprinidae	1014	0	426	55	24	39	-	-	-
Trout-perch	0	0	0	3	0	1	-	-	-
Johnny darter	0	0	0	3	3	3	-	-	-
Logperch	74	0	31	5	0	3	-	-	-
Lepomis sp.	25	0	10	3	0	1	-	-	-
Cottus sp.	0	0	0	0	5	3	-	-	-
Overall	1113	0	468	70	34	52	-	-	-

STATION IV, 25 July 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	-	C
Time (h):	2220	2228	Total	2203	2203	Total	2200	-	Total
Vol. Filt. (m^3):	2.5	1.7	4.2	27.1	23.2	50.3	140.0	-	140.0
Rainbow smelt	0	0	0	7	0	4	1	-	1
Cyprinidae	79	120	95	0	0	0	2	-	2
Johnny darter	0	0	0	0	0	0	1	-	1
Logperch	0	0	0	4	4	4	0	-	0
Overall	79	120	95	11	4	8	4	-	4

STATION II, 26 and 27 July 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0027	0036	Total	0030	0030	Total	2210	2231	Total
Vol. Filt. (m^3):	6.9	1.9	8.7	37.2	37.8	75.0	36.0	42.7	78.7
Alewife	0	0	0	0	5	3	0	0	0
Rainbow smelt	0	0	0	3	0	1	6	2	4
Common carp	0	0	0	3	3	3	0	0	0
Cyprinidae	0	0	0	231	180	205	0	5	3
Trout-perch	0	0	0	0	3	1	0	0	0
Johnny darter	0	0	0	3	3	3	3	2	3
Logperch	0	0	0	5	3	4	3	0	1
Lepomis sp.	58	0	46	0	0	0	0	0	0
Overall	58	0	46	245	196	220	11	9	10

Appendix Table K2. (Continued)

STATION I, LAKE SUPERIOR, 26 July 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	-	C
Time (h):	2120	2127	Total	2142	2142	Total	2156	-	Total
Vol. Filt. (m^3):	1.7	1.9	3.6	36.0	38.0	74.0	71.3	-	71.3
Cyprinidae	116	52	83	0	8	4	29	-	29
Logperch	0	0	0	0	5	3	4	-	4
Lepomis sp.	0	0	0	0	0	0	32	-	32
Overall	116	52	83	0	13	7	66	-	66

STATION V, 2 August 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2130	2140	Total	2200	2200	Total	2220	2230	Total
Vol. Filt. (m^3):	1.9	1.3	3.2	50.4	52.2	102.6	80.5	96.2	176.8
Yellow perch	0	0	0	2	0	1	0	0	0
Johnny darter	0	0	0	2	0	1	1	0	1
Logperch	0	0	0	12	10	11	0	0	0
Rock bass	0	158	63	0	0	0	0	0	0
Freshwater drum	0	0	0	2	0	1	0	0	0
Gizzard shad	0	0	0	10	2	6	0	0	0
Cottus spp.	0	0	0	0	0	0	1	1	1
Cyprinidae	53	0	32	272	299	286	5	2	3
Emerald shiner	0	0	0	81	69	75	6	1	3
Spottail shiner	0	0	0	4	6	5	0	0	0
Mimic shiner	0	0	0	0	4	2	0	0	0
Overall	53	158	95	385	389	387	14	4	8

Appendix Table K2. (Continued)

STATION VI, 2 August 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2330	2340	Total	2315	2315	Total	2250	2300	Total
Vol. Filt. (m^3):	2.0	1.7	3.7	45.3	45.9	91.3	100.3	106.5	206.7
Johnny darter	0	0	0	4	2	3	1	0	<1
Logperch	0	58	27	24	22	23	0	0	0
Rainbow smelt	0	0	0	0	4	2	1	0	<1
Pimephales spp.	152	0	81	0	0	0	0	0	0
Cottus spp.	0	0	0	0	0	0	0	1	<1
Cyprinidae	406	752	568	93	146	119	1	0	<1
Common carp	0	0	0	2	0	1	0	0	0
Emerald shiner	0	0	0	168	133	150	4	0	2
Spottail shiner	0	0	0	9	13	11	1	0	<1
Mimic shiner	51	0	27	0	7	3	0	0	0
Overall	609	810	703	300	327	313	8	1	4

STATION VII, 3 August 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0100	0110	Total	0130	0140	Total	0045	0050	Total
Vol. Filt. (m^3):	1.5	1.8	3.2	44.2	45.1	89.3	96.5	91.9	188.4
Johnny darter	0	0	0	0	0	0	0	1	1
Rainbow smelt	0	0	0	0	0	0	0	1	1
Unidentifiable	0	0	0	0	24	12	0	0	0
Lepomis spp.	68	56	62	0	0	0	0	0	0
Pimephales spp.	68	0	31	0	0	0	0	0	0
Alewife	0	0	0	2	0	1	1	1	1
Gizzard shad	0	0	0	0	2	1	0	0	0
Cyprinidae	341	0	154	192	82	137	1	2	2
Common carp	0	0	0	0	0	0	1	0	1
Emerald shiner	0	0	0	661	716	689	0	0	0
Spottail shiner	0	56	31	2	4	3	0	0	0
Mimic shiner	0	0	0	0	4	2	0	0	0
Common shiner	68	0	31	0	0	0	0	0	0
Golden shiner	136	0	62	0	0	0	0	0	0
Overall	681	113	370	858	834	846	3	5	4

Appendix Table K2. (Continued)

STATION II, 8 and 9 August 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0004	0010	Total	2340	2340	Total	2350	0005	Total
Vol. Filt. (m^3):	4.9	4.6	9.5	37.5	39.0	76.6	84.1	109.4	193.5
Alewife	0	0	0	0	3	1	0	1	1
Rainbow smelt	41	0	21	0	0	0	0	0	0
Cyprinidae	390	22	211	8	0	4	0	0	0
Logperch	41	22	32	0	0	0	0	0	0
Percidae	41	22	32	0	0	0	0	0	0
Lepomis sp.	62	65	63	0	0	0	0	0	0
Unidentifiable	0	0	0	0	0	0	1	0	1
Overall	574	130	358	8	3	5	1	1	1

STATION III, 8 August 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2303	2309	Total	2248	2248	Total	2245	2300	Total
Vol. Filt. (m^3):	4.6	5.4	9.9	39.3	41.0	80.3	92.6	91.3	183.9
Alewife	0	0	0	3	0	1	0	0	0
Rainbow smelt	0	37	20	0	0	0	0	2	1
Cyprinidae	109	1265	734	0	2	1	0	0	0
Rock bass	88	0	40	0	0	0	0	0	0
Lepomis sp.	44	260	161	0	2	1	0	0	0
Overall	241	1562	955	3	5	4	0	2	1

STATION IV, 8 August 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2201	2207	Total	2145	2145	Total	2200	2211	Total
Vol. Filt. (m^3):	2.5	4.2	6.7	38.2	37.7	75.9	131.0	90.2	221.2
Alewife	0	0	0	0	8	4	0	0	0
Rainbow smelt	0	0	0	13	0	7	0	1	<1
Cyprinidae	589	361	448	0	0	0	0	0	0
Logperch	353	72	179	0	0	0	0	0	0
Percidae	785	0	299	0	0	0	0	0	0
Lepomis sp.	825	241	463	0	0	0	0	0	0
Overall	2553	674	1388	13	8	11	0	1	<1

Appendix Table K2. (Continued)

STATION I, LAKE SUPERIOR, 9 August 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2120	2125	Total	2134	2134	Total	2155	2207	Total
Vol. Filt. (m^3):	2.2	2.4	4.6	32.5	33.6	66.2	135.6	112.9	248.6
Alewife	0	0	0	0	0	0	1	0	1
Rainbow smelt	0	0	0	6	0	3	0	0	0
Rock bass	0	42	22	0	0	0	0	0	0
Bluegill	0	42	22	0	0	0	0	0	0
Overall	0	84	44	6	0	3	1	0	1

STATION V, 16 August 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	-	C
Time (h):	2230	2240	Total	2305	2305	Total	2210	-	Total
Vol. Filt. (m^3):	3.0	3.2	6.2	43.7	44.4	88.1	121.0	-	121.0
Johnny darter	66	0	32	5	2	3	0	-	0
Pimephales spp.	33	0	16	0	0	0	0	-	0
Alewife	0	0	0	0	0	0	1	-	1
Gizzard shad	0	0	0	0	2	1	0	-	0
Cyprinidae	132	62	96	21	18	19	0	-	0
Emerald shiner	0	0	0	121	104	112	0	-	0
Mimic shiner	0	0	0	18	20	19	0	-	0
Overall	231	62	144	165	147	156	1	-	1

STATION VI, 16 August 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2340	2350	Total	2330	2330	Total	2140	2200	Total
Vol. Filt. (m^3):	3.1	3.3	6.4	55.1	56.1	111.2	133.4	128.3	261.6
Johnny darter	0	0	0	0	0	0	1	1	1
Logperch	0	0	0	0	2	1	0	0	0
Pimephales spp.	0	60	31	0	0	0	0	0	0
Gizzard shad	0	0	0	2	0	1	0	0	0
Cyprinidae	96	150	124	2	2	2	0	0	0
Emerald shiner	0	0	0	29	27	28	0	0	0
Spottail shiner	0	0	0	2	0	1	0	0	0
Mimic shiner	96	120	109	0	4	2	0	0	0
Overall	192	330	264	34	34	34	1	1	1

Appendix Table K2. (Continued)

STATION VII, 16 and 17 August 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	-	C
Time (h):	0015	0025	Total	0030	0030	Total	2110	-	Total
Vol. Filt. (m^3):	0.8	0.8	1.6	46.9	48.3	95.2	138.6	-	138.6
Pimephales spp.	0	0	0	4	4	4	0	-	0
Alewife	0	0	0	9	4	6	0	-	0
Cyprinidae	0	129	64	4	21	13	0	-	0
Emerald shiner	0	257	128	156	99	127	1	-	1
Spottail shiner	0	0	0	6	2	4	0	-	0
Mimic shiner	0	0	0	11	12	12	0	-	0
Overall	0	386	192	190	143	166	1	-	1

STATION II, 23 August 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2306	2310	Total	2254	2254	Total	2255	2308	Total
Vol. Filt. (m^3):	4.4	4.9	9.3	34.5	34.5	69.0	123.3	112.0	235.3
Cyprinidae	91	20	54	0	0	0	0	0	0
Overall	91	20	54	0	0	0	0	0	0

STATION III, 23 August 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2218	2224	Total	-	-	Total	2205	2215	Total
Vol. Filt. (m^3):	4.5	4.5	9.1	34.5	34.5	69.0	135.0	137.9	272.9
Rainbow smelt	0	0	0	3	0	1	0	0	0
Overall	0	0	0	3	0	1	0	0	0

STATION IV, 23 August 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	-	-	Total	-	-	Total	2125	2130	Total
Vol. Filt. (m^3):	4.5	4.5	9.1	34.5	34.5	69.0	144.4	157.8	302.1
Rainbow smelt	0	0	0	0	6	3	0	0	0
Logperch	22	0	11	0	0	0	0	0	0
Overall	22	0	11	0	6	3	0	0	0

Appendix Table K2. (Continued)

STATION I, LAKE SUPERIOR, 24 August 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2048	2054	Total	2110	2110	Total	2123	2136	Total
Vol. Filt. (m^3):	2.3	1.8	4.1	42.9	102.7	145.5	109.7	93.6	203.3
Cyprinidae	912	0	507	21	5	10	0	0	0
Overall	912	0	507	21	5	10	0	0	0

STATION V, 6 September 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2350	0000	Total	2330	2330	Total	2230	2240	Total
Vol. Filt. (m^3):	2.7	2.5	5.2	47.7	48.1	95.8	102.3	101.2	203.5
Trout-perch	0	0	0	0	2	1	0	0	0
Pimephales spp.	0	40	19	0	0	0	0	0	0
Emerald shiner	0	0	0	10	4	7	0	0	0
Mimic shiner	37	79	57	8	12	10	0	0	0
Overall	37	119	76	19	19	19	0	0	0

STATION VI, 6 and 7 September 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0045	0055	Total	0030	0030	Total	2200	2210	Total
Vol. Filt. (m^3):	2.7	2.8	5.4	51.4	51.2	102.6	95.0	89.9	185.0
Trout-perch	0	0	0	2	0	1	0	0	0
Emerald shiner	0	0	0	23	35	29	0	0	0
Mimic shiner	38	0	18	0	2	1	0	0	0
Overall	38	0	18	25	37	31	0	0	0

STATION VII, 6 and 7 September 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	0115	0125	Total	0130	0130	Total	2115	2125	Total
Vol. Filt. (m^3):	2.4	1.9	4.2	50.7	51.1	101.8	90.5	98.9	189.4
Alewife	0	0	0	6	0	3	0	0	0
Emerald shiner	0	0	0	20	20	20	0	0	0
Mimic shiner	0	0	0	0	6	3	0	0	0
Overall	0	0	0	26	25	26	0	0	0

Appendix Table K2. (Concluded)

STATION II, 7 and 12[a] September 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1[a]	C-2[a]	C[a]
Time (h):	2130	2135	Total	2210	2210	Total	2100	2120	Total
Vol. Filt. (m^3):	4.0	4.4	8.4	34.0	34.5	68.5	106.0	137.1	243.1

NO LARVAE COLLECTED

STATION III, 7 and 12[a] September 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1[a]	C-2[a]	C[a]
Time (h):	2135	2140	Total	2115	2115	Total	2020	2035	Total
Vol. Filt. (m^3):	2.0	3.8	5.8	40.6	41.7	82.3	118.5	283.8	402.3

NO LARVAE COLLECTED

STATION IV, 7 and 12[a] September 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1[a]	C-2[a]	C[a]
Time (h):	2040	2045	Total	2025	2025	Total	1956	2005	Total
Vol. Filt. (m^3):	2.6	3.5	6.1	36.1	82.6	118.8	98.0	131.2	229.2

NO LARVAE COLLECTED

STATION I, LAKE SUPERIOR, 8 September 1983

Tow Replicate:	P-1	P-2	P	S-1	S-2	S	C-1	C-2	C
Time (h):	2115	2124	Total	2137	2137	Total	2050	2054	Total
Vol. Filt. (m^3):	2.7	2.3	5.0	42.7	40.0	82.7	90.8	55.7	146.5

NO LARVAE COLLECTED

Appendix L. Catch records of fish collected with small trap nets in the St. Marys River during 1982 and 1983.

Gear : Small Trapnet
Date : 06/22/82
Station : I

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	5	157	5	157
Rainbow Smelt	1	2	1	2	2	4
White Sucker	1	4	0	0	1	4
Trout-perch	0	0	2	12	2	12
Rock Bass	2	561	0	0	2	561
Threespine Stickleback	0	0	1	6	1	6
Bluntnose Minnow	8	21	2	4	10	25
Longnose Dace	0	0	5	15	5	15
Emerald Shiner	1	2	1	2	2	4
Spottail Shiner	1	5	35	174	36	179
Mimic Shiner	1	2	6	10	7	12
Common Shiner	2	28	6	22	8	50
TOTAL	17	624	64	404	81	1028

Gear : Small Trapnet
Date : 06/23/82
Station : I

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	14	32	0	0	14	32
Johnny Darter	0	0	4	9	4	9
Logperch	0	0	36	150	36	150
Rainbow Smelt	1	4	4	9	5	13
White Sucker	8	32	0	0	8	32
Trout-perch	1	9	0	0	1	9
Bluntnose Minnow	32	83	59	176	32	259
Emerald Shiner	0	0	7	33	7	33
Spottail Shiner	144	755	2777	14704	2921	15459
Mimic Shiner	66	135	57	132	123	267
Common Shiner	37	313	75	550	112	863
TOTAL	303	1362	3010	15763	3313	17125

Gear : Small Trapnet
Date : 07/14/82
Station : I

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	22	54	10	40	32	94
White Sucker	14	934	2	7	16	941
Trout-perch	4	11	0	0	4	11
Ninespine Stickleback	0	0	1	2	1	2
Bluntnose Minnow	10	28	27	77	37	105
Emerald Shiner	23	55	31	67	54	123
Spottail Shiner	277	732	105	247	382	979
Mimic Shiner	45	80	247	405	292	485
Common Shiner	4	24	18	66	22	90
TOTAL	399	1918	441	912	840	2830

Gear : Small Trapnet
Date : 07/15/82
Station : I

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
White Sucker	9	41	0	0	9	41
Lake Whitefish	1	2	0	0	1	2
Trout-perch	1	7	0	0	1	7
Bluntnose Minnow	14	34	2	5	16	39
Emerald Shiner	45	153	1	3	46	156
Spottail Shiner	456	1785	7	11	463	1796
Mimic Shiner	30	50	2	3	32	52
Common Shiner	4	47	0	0	4	47
TOTAL	560	2119	12	22	572	2140

Gear : Small Trapnet
Date : 08/05/82
Station : I

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	40	95	3	18	43	113
Logperch	0	0	6	13	6	13
Rainbow Smelt	0	0	1	1	1	1
White Sucker	35	47	4	14	39	61
Trout-perch	75	224	0	0	75	224
Smallmouth Bass	5	6	0	0	5	6
Ninespine Stickleback	5	6	0	0	5	6
Blacknose Shiner	0	0	1	2	1	2
Bluntnose Minnow	20	38	5	11	25	49
Emerald Shiner	1850	3568	42	66	1892	3634
Spottail Shiner	815	2643	48	93	863	2736
Mimic Shiner	130	209	3	4	133	213
Common Shiner	15	32	37	66	52	98
TOTAL	2990	6868	150	287	3140	7155

Gear : Small Trapnet
Date : 08/05/82
Station : I

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	4	8	26	9	30
Logperch	0	0	1	2	1	2
White Sucker	23	47	124	209	147	256
Silver Redhorse	1	1150	0	0	1	1150
Trout-perch	61	350	0	0	61	350
Brassy Minnow	0	0	1	3	1	3
Bluntnose Minnow	10	23	10	33	20	56
Emerald Shiner	3	7	16	27	19	33
Spottail Shiner	15	30	162	313	177	343
Mimic Shiner	14	21	280	435	294	456
Common Shiner	0	0	88	321	88	321
TOTAL	128	1632	690	1368	818	3000

Gear : Small Trapnet
Date : 09/15/82
Station : I

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	1	1	1	1
Northern Pike	2	30	0	0	2	30
Burbot	1	113	0	0	1	113
Unknown Lamprey	1	6	0	0	1	6
White Sucker	141	604	36	1249	177	1853
Trout-perch	3	20	0	0	3	20
Rock Bass	0	0	1	1	1	1
Ninespine Stickleback	2	4	0	0	2	4
Bluntnose Minnow	1	5	0	0	1	5
Longnose Dace	0	0	4	19	4	19
Mimic Shiner	5	9	1	2	6	11
Common Shiner	0	0	18	67	18	67
TOTAL	156	796	61	1339	217	2135

Gear : Small Trapnet
Date : 09/16/82
Station : I

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	3	4	3	4
Johnny Darter	0	0	3	4	3	4
Iowa Darter	0	0	1	2	1	2
White Sucker	29	117	38	125	67	242
Trout-perch	1	5	0	0	1	5
Smallmouth Bass	1	2	0	0	1	2
Alewife	1	3	0	0	1	3
Mottled Sculpin	0	0	2	7	2	7
Bluntnose Minnow	2	12	0	0	2	12
Longnose Dace	1	4	0	0	1	4
Emerald Shiner	8	17	0	0	8	17
Spottail Shiner	1	5	2	2	3	7
Mimic Shiner	0	0	3	5	3	5
Common Shiner	1	10	0	0	1	10
TOTAL	45	176	52	149	97	324

Gear : Small Trapnet
Date : 10/12/82
Station : I

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	1	0	0	1	1
White Sucker	18	65	7	911	25	976
Trout-perch	1	1	0	0	1	1
Rock Bass	4	9	2	1	6	9
Mottled Sculpin	1	4	0	0	1	4
Finescale Dace	1	1	0	0	1	1
Bluntnose Minnow	2	4	1	1	3	5
Spottail Shiner	6	13	1	2	7	16
Misic Shiner	14	20	4	6	18	26
Common Shiner	0	0	10	27	10	27
TOTAL	48	117	25	948	73	1065

Gear : Small Trapnet
Date : 10/13/82
Station : I

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	1	3	4	4	5
Johnny Darter	1	1	0	0	1	1
Northern Pike	2	2484	0	0	2	2484
Rainbow Smelt	1	1	1	1	2	2
White Sucker	30	48	61	132	91	180
Bluegill	1	0	0	0	1	0
Rock Bass	1	1	3	2	4	3
Spoonhead Sculpin	1	3	1	1	2	4
Finescale Dace	1	1	0	0	1	1
Bluntnose Minnow	7	14	0	0	7	14
Emerald Shiner	1	4	1	2	2	6
Spottail Shiner	3	10	1	2	4	11
Misic Shiner	5	7	2	3	11	15
TOTAL	59	2580	73	147	132	2727

Gear : Small Trapnet
Date : 11/09/82
Station : I

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	3	4	3	4
Burbot	1	640	0	0	1	640
White Sucker	66	815	72	1336	138	2151
Rock Bass	1	1	3	4	4	4
Ninespine Stickleback	2	3	2	3	4	6
Brook Stickleback	1	2	0	0	1	2
Mottled Sculpin	0	0	2	2	2	2
Creek Chub	0	0	1	61	1	61
Pearl Dace	0	0	1	3	1	3
Bluntnose Minnow	36	105	0	0	36	105
Emerald Shiner	463	1079	1	5	464	1084
Spottail Shiner	2	7	0	0	2	7
Mimic Shiner	38	51	24	35	62	86
Common Shiner	3	16	3	15	6	31
TOTAL	613	2719	114	1466	727	4185

Gear : Small Trapnet
Date : 11/10/82
Station : I

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
White Sucker	3	488	1	46	4	534
Spoonhead Sculpin	0	0	1	2	1	2
Bluntnose Minnow	1	2	0	0	1	2
Emerald Shiner	365	819	0	0	365	819
Spottail Shiner	2	12	0	0	2	12
Mimic Shiner	2	3	1	1	3	4
TOTAL	373	1324	3	49	376	1373

Gear : Small Trapnet
Date : 05/06/82
Station : II

Time : Night

Species	OPEN Number	OPEN Weight(g)	VEG. Number	VEG. Weight(g)	COMBINED Number	COMBINED Weight(g)
Yellow Perch	1	211	0	0	1	211
Northern Pike	1	1440	0	0	1	1440
Shorthead Redhorse	1	5580	0	0	1	5580
White Sucker	1	2810	0	0	1	2810
Brown Bullhead	26	9758	1	0	27	9758
TOTAL	30	20779	1	0	31	20779

Gear : Small Trapnet
Date : 05/06/82
Station : II

Time : Day

Species	OPEN Number	OPEN Weight(g)	VEG. Number	VEG. Weight(g)	COMBINED Number	COMBINED Weight(g)
Yellow Perch	6	53	0	0	6	53
Rainbow Smelt	1	2	0	0	1	2
White Sucker	1	1420	1	2	2	1422
Trout-perch	3	21	0	0	3	21
Mottled Sculpin	1	2	0	0	1	2
Bluntnose Minnow	1	4	0	0	1	4
Mimic Shiner	1	1	0	0	1	1
TOTAL	14	1503	1	2	15	1505

Gear : Small Trapnet
Date : 06/21/82
Station : II

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
White Sucker	3	2770	6	5525	9	8295
Silver Redhorse	1	2600	0	0	1	2600
Rock Bass	3	670	2	774	5	1444
Brown Bullhead	1	300	3	1239	4	1539
Mimic Shiner	2	2	11	11	13	13
TOTAL	10	6342	22	7799	32	14140

Gear : Small Trapnet
Date : 06/22/82
Station : II

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	2	5	19	6	20
Logperch	0	0	5	11	5	11
White Sucker	1	810	0	0	1	810
Bluntnose Minnow	1	2	5	9	6	11
Mimic Shiner	37	44	348	457	385	502
Common Shiner	11	13	12	29	23	42
TOTAL	51	871	375	525	426	1396

Gear : Small Trapnet
Date : 07/15/82
Station : II

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
White Sucker	0	0	1	1100	1	1100
Smallmouth Bass	1	1	0	0	1	1
TOTAL	1	1	1	1100	2	1101

Gear : Small Trapnet
Date : 07/15/82
Station : II

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
White Sucker	13	11990	9	9210	22	21200
Brown Bullhead	3	590	35	6552	38	7142
TOTAL	16	12571	44	15772	60	28342

Gear : Small Trapnet
Date : 08/11/82
Station : II

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	5	17	4	2	9	18
White Sucker	0	0	2	1	2	1
Rock Bass	3	2	2	1	5	2
Brown Bullhead	0	0	1	150	1	150
Spottail Shiner	0	0	1	1	1	1
Mimic Shiner	1	1	0	0	1	1
TOTAL	9	19	10	153	19	172

Gear : Small Trapnet
Date : 08/11/82
Station : II

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	3	18	0	0	3	18
Northern Pike	0	0	1	6240	1	6240
White Sucker	1	1050	2	1870	3	2920
Rock Bass	1	1	0	0	1	1
Brown Bullhead	1	180	1	240	2	420
TOTAL	6	1249	4	8350	10	9599

Gear : Small Trapnet
Date : 09/01/82
Station : II

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
White Sucker	2	6	0	0	2	6
Mimic Shiner	1	2	0	0	1	2
TOTAL	3	8	0	0	3	8

Gear : Small Trapnet
Date : 09/01/82
Station : II

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
White Sucker	2	2200	0	0	2	2200
Rock Bass	5	4	0	0	5	4
Brown Bullhead	6	1210	3	600	9	1810
Mimic Shiner	2	2	0	0	2	2
TOTAL	15	3417	3	600	18	4017

Gear : Small Trapnet
Date : 10/06/82
Station : II

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	1	15	1	15
White Sucker	2	1203	2	2100	4	3303
TOTAL	2	1203	3	2115	5	3318

Gear : Small Trapnet
Date : 10/06/82
Station : II

Time : Night

Species	OPEN Number	OPEN Weight(g)	VEG. Number	VEG. Weight(g)	COMBINED Number	COMBINED Weight(g)
White Sucker	1	1100	5	5300	6	6400
Rock Bass	1	1	0	0	1	1
Bluntnose Minnow	1	6	1	6	2	11
TOTAL	3	1107	6	5306	9	6412

Gear : Small Trapnet
Date : 11/03/82
Station : II

Time : Night

Species	OPEN Number	OPEN Weight(g)	VEG. Number	VEG. Weight(g)	COMBINED Number	COMBINED Weight(g)
White Sucker	11	10731	1	1450	12	12181
Bluegill	0	0	1	0	1	0
Rock Bass	0	0	1	1	1	1
Brown Bullhead	0	0	1	300	1	300
TOTAL	11	10731	4	1751	15	12482

Gear : Small Trapnet
Date : 11/04/82
Station : II

Time : Day

Species	OPEN Number	OPEN Weight(g)	VEG. Number	VEG. Weight(g)	COMBINED Number	COMBINED Weight(g)
White Sucker	1	1040	0	0	1	1040
Mimic Shiner	0	0	1	1	1	1
TOTAL	1	1040	1	1	2	1041

Gear : Small Trapnet
Date : 05/17/82
Station : III

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	2	4	2	4
White Sucker	0	0	4	24	4	24
Brown Bullhead	0	0	1	2	1	2
Mottled Sculpin	1	1	0	0	1	1
Lake Chub	1	6	0	0	1	6
Bluntnose Minnow	2	4	16	40	18	44
Spottail Shiner	0	0	2	10	2	10
Mimic Shiner	1	2	15	16	16	18
Common Shiner	0	0	22	63	22	63
TOTAL	5	12	62	157	67	169

Gear : Small Trapnet
Date : 05/18/82
Station : III

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	4	7	4	7
Johnny Darter	5	5	0	0	5	5
White Sucker	1	2	2	21	3	22
Ninespine Stickleback	0	0	8	8	8	8
Mottled Sculpin	2	4	1	0	3	4
Blacknose Shiner	0	0	3	3	3	3
Bluntnose Minnow	0	0	9	15	9	15
Emerald Shiner	0	0	1	2	1	2
Spottail Shiner	0	0	5	18	5	18
Mimic Shiner	0	0	26	45	26	45
Common Shiner	0	0	2	5	2	5
TOTAL	8	10	72	124	80	133

Gear : Small Trapnet
Date : 06/24/82
Station : III

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
[illegible]	1	2	0	0	1	2
Lake Whitefish	3	0	0	0	3	0
Bluntnose Minnow	0	0	1	3	1	3
Spottail Shiner	0	0	1	4	1	4
Mimic Shiner	0	0	1	1	1	1
TOTAL	4	2	3	8	7	10

Gear : Small Trapnet
Date : 06/24/82
Station : III

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	3	8	3	8
Johnny Darter	0	0	1	1	1	1
White Sucker	0	0	3	1803	3	1803
Rock Bass	1	140	0	0	1	140
Mottled Sculpin	0	0	1	2	1	2
Bluntnose Minnow	0	0	12	24	12	24
Spottail Shiner	0	0	3	12	3	12
Mimic Shiner	11	14	21	30	32	44
Common Shiner	0	0	3	10	3	10
TOTAL	12	154	47	1890	59	2044

Gear : Small Trapnet
Date : 07/19/82
Station : III

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Ninespine Stickleback	0	0	1	1	1	1
Blacknose Shiner	1	2	0	0	1	2
Spottail Shiner	1	2	0	0	1	2
TOTAL	2	3	1	1	3	4

Gear : Small Trapnet
Date : 07/19/82
Station : III

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	2	7	2	7
Northern Pike	0	0	1	872	1	872
Rock Bass	2	31	0	0	2	31
Ninespine Stickleback	0	0	1	1	1	1
Bluntnose Minnow	11	19	4	11	15	30
Spottail Shiner	1	1	0	0	1	1
Mimic Shiner	33	52	2	3	35	55
TOTAL	47	104	10	894	57	998

Gear : Small Trapnet
Date : 08/09/82
Station : III

Time : Day

Species	OPEN #		VEG.		COMBINED	
	Number	Weight g	Number	Weight g	Number	Weight(g)
Yellow Perch	0	0	2	11	2	11
Logperch	0	0	1	1	1	1
White Sucker	0	0	1	5	1	5
Fathead Minnow	0	0	1	1	1	1
Bluntnose Minnow	0	0	94	267	94	267
Spottail Shiner	0	0	1	4	1	4
Mimic Shiner	0	0	102	162	102	162
Common Shiner	0	0	1	4	1	4
TOTAL	0	0	209	457	209	457

Gear : Small Trapnet
Date : 08/09/82
Station : III

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	6	1	6	2	12
Logperch	1	4	1	2	2	6
White Sucker	0	0	11	26	11	26
Rock Bass	3	23	3	53	6	31
Bluntnose Minnow	7	22	185	477	192	499
Spottail Shiner	0	0	5	10	5	10
Mimic Shiner	3	9	181	285	184	294
Common Shiner	0	0	14	42	14	42
TOTAL	15	64	401	901	416	970

Gear : Small Trapnet
Date : 09/01/82
Station : III

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Johnny Darter	1	2	1	2	2	3
White Sucker	4	1365	7	711	11	2076
Rock Bass	4	14	2	7	6	21
Brown Bullhead	0	0	1	23	1	23
Blacknose Shiner	1	2	2	3	3	5
Bluntnose Minnow	1	2	5	14	6	16
Emerald Shiner	1	5	0	0	1	5
Mimic Shiner	4	6	0	0	4	6
Common Shiner	0	0	4	10	4	10
Golden Shiner	0	0	1	3	1	3
TOTAL	16	1394	23	773	39	2167

Gear : Small Trapnet
Date : 09/02/82
Station : III

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Shorthead Redhorse	0	0	1	1200	1	1200
White Sucker	18	39	51	94	69	133
Smallmouth Bass	1	4	0	0	1	4
Mottled Sculpin	0	0	1	0	1	0
Bluntnose Minnow	0	0	1	3	1	3
Mimic Shiner	0	0	3	5	3	5
Common Shiner	1	2	6	15	7	17
TOTAL	19	45	63	1317	81	1362

Gear : Small Trapnet
Date : 10/04/82
Station : III

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
White Sucker	9	11	0	0	9	11
Trout-perch	1	1	0	0	1	1
Rock Bass	5	12	0	0	5	12
Mottled Sculpin	1	11	1	5	2	16
Bluntnose Minnow	1	2	0	0	1	2
Mimic Shiner	47	84	2	4	49	88
TOTAL	64	121	3	9	67	130

Gear : Small Trapnet
Date : 10/05/82
Station : III

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Mimic Shiner	0	0	4	5	4	5
TOTAL	0	0	4	5	4	5

Gear : Small Trapnet
Date : 11/16/82
Station : III

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
White Sucker	0	0	1	11	1	11
Emerald Shiner	1	2	0	0	1	2
Mimic Shiner	2	1	0	0	2	1
TOTAL	3	3	1	11	4	14

Gear : Small Trapnet
Date : 11/16/92
Station : III

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	2	14	2	14
White Sucker	5	106	10	5739	15	5845
Trout-perch	1	6	0	0	1	6
Brown Bullhead	1	2	0	0	1	2
Mottled Sculpin	11	23	2	2	13	25
Bluntnose Minnow	0	0	1	2	1	2
Emerald Shiner	34	95	8	15	42	110
Mimic Shiner	20	19	5	9	25	27
Notropis sp.	2	1	0	0	2	1
TOTAL	74	251	28	5831	102	6083

Gear : Small Trapnet
Date : 05/10/82
Station : IV

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	4	21	1	3	5	24
Northern Pike	1	660	0	0	1	660
White Sucker	7	1654	0	0	7	1654
Trout-perch	0	0	1	5	1	5
Bluegill	1	1	0	0	1	1
Rock Bass	8	1078	6	1122	14	2200
Ninespine Stickleback	0	0	1	2	1	2
Brown Bullhead	0	0	1	2	1	2
Bluntnose Minnow	9	21	13	26	22	47
Spottail Shiner	0	0	2	13	2	13
TOTAL	30	3434	25	1174	55	4607

Gear : Small Trapnet
Date : 05/11/82
Station : IV

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	8	16	18	40	26	56
Johnny Darter	1	2	1	2	2	4
White Sucker	2	10	3	6	5	16
Rock Bass	2	2	0	0	2	2
Ninespine Stickleback	1	3	2	3	3	6
Mottled Sculpin	0	0	1	1	1	1
Blacknose Shiner	0	0	1	1	1	1
Bluntnose Minnow	21	45	6	10	27	55
Spottail Shiner	2	5	0	0	2	5
Mimic Shiner	6	9	0	0	6	9
TOTAL	43	90	32	62	75	152

Gear : Small Trapnet
Date : 06/24/82
Station : IV

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	5	17	12	31	17	48
Logperch	1	9	0	0	1	9
White Sucker	6	18	1	3	7	21
Brook Stickleback	0	0	1	1	1	1
Bluntnose Minnow	5	11	0	0	5	11
Spottail Shiner	14	27	7	10	21	37
Mimic Shiner	304	388	37	50	341	437
TOTAL	335	469	58	94	393	562

Gear : Small Trapnet
Date : 06/24/82
Station : IV

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	5	154	0	0	5	154
Johnny Darter	1	2	0	0	1	2
Northern Pike	1	1150	0	0	1	1150
Golden Redhorse	1	2700	0	0	1	2700
White Sucker	10	5684	2	2250	12	7934
Trout-perch	3	14	2	11	5	25
Pumpkinseed	1	102	0	0	1	102
Rock Bass	17	1613	1	20	18	1633
Brown Bullhead	1	480	0	0	1	480
Mottled Sculpin	1	2	0	0	1	2
Bluntnose Minnow	9	18	0	0	9	18
Emerald Shiner	2	8	0	0	2	8
Spottail Shiner	50	179	2	15	52	194
Mimic Shiner	8	11	6	10	14	20
TOTAL	110	12117	13	2305	123	14422

Gear : Small Trapnet
Date : 07/19/82
Station : IV

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Spottail Shiner	[illegible]	[illegible]	5	5	5	5
Mimic Shiner	[illegible]	[illegible]	1	0	1	0
TOTAL	[illegible]	[illegible]	6	5	6	5

Gear : Small Trapnet
Date : 07/19/82
Station : IV

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	26	97	0	0	26	97
Logperch	5	7	0	0	5	7
White Sucker	3	11	0	0	3	11
Trout-perch	1	6	0	0	1	6
Brown Bullhead	0	0	1	40	1	40
Fathead Minnow	1	1	0	0	1	1
Bluntnose Minnow	19	37	0	0	19	37
Emerald Shiner	167	701	3	12	170	713
Spottail Shiner	12	22	0	0	12	22
Mimic Shiner	16	22	3	3	19	25
Common Shiner	1	7	0	0	1	7
TOTAL	251	911	7	55	258	967

Gear : Small Trapnet
Date : 08/09/82
Station : IV

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	3	19	2	53	5	72
Blacknose Shiner	0	0	1	1	1	1
Mimic Shiner	0	0	6	8	6	8
TOTAL	3	19	9	62	12	81

Gear : Small Trapnet
Date : 08/09/82
Station : IV

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	17	159	2	150	19	309
Northern Pike	0	0	1	800	1	800
White Sucker	0	0	2	2400	2	2400
Rock Bass	3	129	0	0	3	129
Smallmouth Bass	1	9	0	0	1	9
Blacknose Shiner	2	2	0	0	2	2
Bluntnose Minnow	7	16	1	3	8	19
Emerald Shiner	1	4	0	0	1	4
Mimic Shiner	12	19	1	2	13	21
TOTAL	43	337	7	3355	50	3692

Gear : Small Trapnet
Date : 09/01/82
Station : IV

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	2	40	0	0	2	40
White Sucker	0	0	1	940	1	940
Trout-perch	0	0	1	5	1	5
Bluegill	2	7	0	0	2	7
Rock Bass	2	33	2	2	4	35
Brown Bullhead	1	224	0	0	1	224
Emerald Shiner	2	6	0	0	2	6
Spottail Shiner	5	38	0	0	5	38
TOTAL	14	349	4	947	18	1295

Gear : Small Trapnet
Date : 09/02/82
Station : IV

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	7	193	0	0	7	193
Bluegill	1	2	2	3	3	4
Smallmouth Bass	4	38	0	0	4	38
Blacknose Shiner	0	0	3	6	3	6
Bluntnose Minnow	2	8	0	0	2	8
Spottail Shiner	65	326	0	0	65	326
Mimic Shiner	2	4	0	0	2	4
Common Shiner	2	6	0	0	2	6
Notropis sp.	2	2	0	0	2	2
Golden Shiner	1	3	0	0	1	3
TOTAL	86	582	5	8	91	590

Gear : Small Trapnet
Date : 10/04/82
Station : IV

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	1	2	1	2
White Sucker	6	3021	1	840	7	3861
Bluegill	2	2	0	0	2	2
Rock Bass	3	2	0	0	3	2
Mottled Sculpin	1	5	0	0	1	5
Banded Killifish	1	4	0	0	1	4
Emerald Shiner	3	6	5	10	8	16
Spottail Shiner	1	7	0	0	1	7
Common Shiner	0	0	1	3	1	3
TOTAL	17	3046	8	854	25	3900

Gear : Small Trapnet
Date : 10/05/82
Station : IV

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	12	103	1	18	13	121
White Sucker	3	5	0	0	3	5
Trout-perch	1	1	0	0	1	1
Bluegill	10	7	0	0	10	7
Pumpkinseed	2	23	0	0	2	23
Rock Bass	2	2	0	0	2	2
Ninespine Stickleback	3	4	0	0	3	4
Alewife	1	1	0	0	1	1
Blacknose Shiner	9	11	0	0	9	11
Bluntnose Minnow	30	98	0	0	30	98
Emerald Shiner	54	96	0	0	54	96
Spottail Shiner	64	111	0	0	64	111
Mimic Shiner	114	162	1	1	115	163
Common Shiner	2	6	0	0	2	6
TOTAL	307	629	2	19	309	648

Gear : Small Trapnet
Date : 11/16/82
Station : IV

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	2	31	0	0	2	31
Spottail Shiner	1	0	0	0	1	0
TOTAL	3	31	0	0	3	31

Gear : Small Trapnet
Date : 11/16/82
Station : IV

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	2	60	0	0	2	60
Northern Pike	0	0	2	0	2	0
White Sucker	8	3930	2	1132	10	5062
Rock Bass	1	1	0	0	1	1
Mottled Sculpin	1	1	0	0	1	1
Bluntnose Minnow	11	24	2	4	13	28
Emerald Shiner	97	161	14	23	111	184
Spottail Shiner	3	3	0	0	3	3
Mimic Shiner	53	57	5	6	58	63
TOTAL	176	4236	25	1169	201	5405

Gear : Small Trapnet
Date : 05/08/82
Station : V

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	8	8	0	0	8	8
Johnny Darter	1	1	0	0	1	1
Logperch	7	29	0	0	7	29
Rainbow Smelt	1	1	0	0	1	1
White Sucker	3	6	0	0	3	6
Silver Redhorse	3	5020	0	0	3	5020
Trout-perch	13	96	0	0	13	96
Black Crappie	1	1	0	0	1	1
N. Redbelly Dace	1	1	1	1	2	2
Fathead Minnow	2	2	0	0	2	2
Bluntnose Minnow	30	59	0	0	30	59
Emerald Shiner	7	7	0	0	7	7
Spottail Shiner	290	1385	36	186	326	1571
Mimic Shiner	7	7	5	5	12	12
Common Shiner	1	5	0	0	1	5
Golden Shiner	22	119	4	4	26	123
TOTAL	395	6747	46	196	441	6943

Gear : Small Trapnet
Date : 05/08/82
Station : V

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	0	0	0	1	0
Northern Pike	11	6996	0	0	11	6996
Golden Redhorse	2	0	0	0	2	0
White Sucker	1	400	0	0	1	400
Silver Redhorse	3	0	0	0	3	0
Trout-perch	6	46	0	0	6	46
Pumpkinseed	1	154	0	0	1	154
Rock Bass	1	420	0	0	1	420
Brown Bullhead	26	9714	1	520	27	10234
Mottled Sculpin	0	0	1	2	1	2
Bluntnose Minnow	2	18	0	0	2	18
Emerald Shiner	0	0	1	1	1	1
Spottail Shiner	4	16	2	4	6	20
TOTAL	58	17764	5	527	63	18291

Gear : Small Trapnet
Date : 06/04/82
Station : V

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	2	5	0	0	2	5
Northern Pike	0	0	1	5000	1	5000
Rainbow Smelt	1	8	0	0	1	8
White Sucker	4	2552	0	0	4	2552
Trout-perch	16	106	1	2	17	108
Rock Bass	2	336	0	0	2	336
Brown Bullhead	2	442	0	0	2	442
Bluntnose Minnow	7	24	1	2	8	26
Emerald Shiner	3	8	14	40	17	48
Spottail Shiner	9	43	5	18	14	61
Mimic Shiner	2	2	6	7	8	9
Golden Shiner	0	0	1	2	1	2
TOTAL	48	3527	29	5070	77	8597

Gear : Small Trapnet
Date : 06/05/82
Station : V

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	8	18	26	67	34	85
Logperch	1	3	0	0	1	3
Muskellunge	1	0	0	0	1	0
Rainbow Smelt	2	20	1	2	3	22
Trout-perch	4	13	9	27	13	40
Smallmouth Bass	1	1020	0	0	1	1020
Bluntnose Minnow	20	82	9	29	29	111
Emerald Shiner	2240	7501	33	90	2273	7592
Spottail Shiner	420	675	61	138	481	813
Mimic Shiner	90	151	62	92	152	243
Common Shiner	3	17	2	11	5	29
Golden Shiner	2	9	1	3	3	12
TOTAL	2792	9509	204	459	2996	9969

Gear : Small Trapnet
Date : 07/07/82
Station : V

Time : Day

Species	OPEN		VEG. #		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	2	2	0	0	2	2
Yellow Perch	5	18	0	0	5	18
Logperch	11	25	0	0	11	25
Trout-perch	8	37	0	0	8	37
Smallmouth Bass	3	33	0	0	3	33
Blacknose Shiner	2	3	0	0	2	3
Bluntnose Minnow	64	166	0	0	64	166
Emerald Shiner	222	725	0	0	222	725
Spottail Shiner	19	40	0	0	19	40
Mimic Shiner	10	14	0	0	10	14
TOTAL	346	1063	0	0	346	1063

Gear : Small Trapnet
Date : 07/07/82
Station : V

Time : Night

Species	OPEN		VEG. #		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	3	4	0	0	3	4
Yellow Perch	8	425	0	0	8	425
Logperch	2	7	0	0	2	7
Bowfin	1	5	0	0	1	5
White Sucker	2	87	0	0	2	87
Trout-perch	32	167	0	0	32	167
Rock Bass	1	240	0	0	1	240
Brown Bullhead	1	514	0	0	1	514
Mottled Sculpin	1	4	0	0	1	4
Creek Chub	1	5	0	0	1	5
Fathead Minnow	1	2	0	0	1	2
Bluntnose Minnow	21	54	0	0	21	54
Emerald Shiner	222	775	0	0	222	775
Spottail Shiner	2	2	0	0	2	2
Mimic Shiner	2	2	0	0	2	2
Common Shiner	1	2	0	0	1	2
Golden Shiner	1	1	0	0	1	1
TOTAL	302	2296	0	0	302	2296

Gear : Small Trapnet
Date : 07/08/82
Station : V

Time : Day

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	13	20	13	20
Threespine Stickleback	1	2	1	2	1	2
Bluntnose Minnow	5	3	0	0	5	3
Emerald Shiner	3	3	83	80	86	83
Spottail Shiner	1	2	101	209	101	209
Common Shiner	1	5	0	0	1	5
TOTAL	11	15	238	251	249	257

Gear : Small Trapnet
Date : 07/08/82
Station : V

Time : Night

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	1	2	1	2
Brown Bullhead	0	0	1	160	1	160
Emerald Shiner	0	0	4	14	4	14
Mimic Shiner	0	0	1	2	1	2
TOTAL	0	0	7	177	7	177

Gear : Small Trapnet
Date : 08/11/82
Station : V

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	23	55	7	101	30	156
Yellow Perch	7	116	4	6	11	122
Northern Pike	6	8680	3	1980	9	10660
Silver Redhorse	1	498	0	0	1	498
Trout-perch	8	21	3	13	11	34
Black Crappie	3	3	0	0	3	3
Pumpkinseed	2	240	0	0	2	240
Rock Bass	5	4	11	6	16	10
Smallmouth Bass	7	53	0	0	7	53
Bluntnose Minnow	4	13	0	0	4	13
Emerald Shiner	4	55	1	2	5	57
Mimic Shiner	2	3	0	0	2	3
Golden Shiner	2	12	15	42	17	54
TOTAL	74	9752	44	2150	118	11902

Gear : Small Trapnet
Date : 08/11/82
Station : V

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	7	14	2	10	9	24
Yellow Perch	0	0	4	114	4	114
Logperch	0	0	1	1	1	1
Northern Pike	2	900	0	0	2	900
Trout-perch	0	0	20	69	20	69
Rock Bass	6	253	4	2	10	255
Smallmouth Bass	1	340	0	0	1	340
Brown Bullhead	11	3929	0	0	11	3929
Bluntnose Minnow	1	1	1	1	2	2
Common Shiner	0	0	1	2	1	2
Golden Shiner	0	0	4	11	4	11
TOTAL	28	5438	37	210	65	5647

Gear : Small Trapnet
Date : 09/08/82
Station : V

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	2	12	2	12
Yellow Perch	4	267	0	0	4	267
White Sucker	3	35	0	0	3	35
Black Crappie	1	2	1	3	2	5
Pumpkinseed	8	19	1	1	9	20
Rock Bass	1	1	0	0	1	1
Smallmouth Bass	5	16	0	0	5	16
Alewife	10	15	4	4	14	19
Gizzard Shad	0	0	2	2	2	2
Bluntnose Minnow	105	224	0	0	105	224
Emerald Shiner	85	392	5	12	90	404
Spottail Shiner	29	94	2	7	31	101
Mimic Shiner	45	67	1	2	46	69
Common Shiner	12	36	0	0	12	36
Golden Shiner	15	49	2	5	18	54
TOTAL	324	1216	20	47	344	1263

Gear : Small Trapnet
Date : 09/08/82
Station : V

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	2	41	0	0	2	41
White Sucker	2	1394	0	0	2	1394
Silver Redhorse	1	2010	1	1690	2	3700
Trout-perch	9	30	1	14	10	44
Rock Bass	4	4	0	0	4	4
Brown Bullhead	1	584	2	672	3	1256
Bluntnose Minnow	2	2	0	0	2	2
Emerald Shiner	8	15	0	0	8	15
Spottail Shiner	1	2	1	1	2	3
TOTAL	30	4082	5	2378	35	6459

Gear : Small Trapnet
Date : 10/03/82
Station : V

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	2	16	0	0	2	16
Yellow Perch	4	40	0	0	4	40
Logperch	1	7	0	0	1	7
Northern Pike	1	100	1	884	2	984
Bowfin	1	2580	0	0	1	2580
White Sucker	1	438	3	2908	4	3346
Silver Redhorse	1	2040	0	0	1	2040
Trout-perch	13	24	0	0	13	24
Black Crappie	2	3	0	0	2	3
Rock Bass	2	2	0	0	2	2
Smallmouth Bass	1	940	0	0	1	940
Brown Bullhead	7	3398	1	328	8	3726
Bluntnose Minnow	3	5	0	0	3	5
Emerald Shiner	0	0	1	1	1	1
Spottail Shiner	0	0	1	1	1	1
Mimic Shiner	6	7	3	4	9	11
Golden Shiner	1	7	0	0	1	7
TOTAL	46	9606	10	4126	56	13732

Gear : Small Trapnet
Date : 10/04/82
Station : V

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	2	10	0	0	2	10
Northern Pike	1	940	0	0	1	940
Black Crappie	1	3	0	0	1	3
Brown Bullhead	4	886	0	0	4	886
Alewife	10	22	0	0	10	22
Gizzard Shad	8	10	1	1	9	12
Bluntnose Minnow	33	74	0	0	33	74
Emerald Shiner	5	13	0	0	5	13
Spottail Shiner	2	3	0	0	2	3
Mimic Shiner	2	3	0	0	2	3
Common Shiner	1	2	0	0	1	2
Golden Shiner	3	9	0	0	3	9
TOTAL	72	1974	1	1	73	1976

Gear : Small Trapnet
Date : 11/09/82
Station : V

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	1	5	1	5
Yellow Perch	7	100	5	334	12	434
Northern Pike	5	4532	0	0	5	4532
Rainbow Smelt	1	2	0	0	1	2
White Sucker	0	0	3	2632	3	2632
Lake Herring	6	2672	0	0	6	2672
Trout-perch	0	0	3	11	3	11
Ninespine Stickleback	0	0	1	1	1	1
Brown Bullhead	0	0	1	466	1	466
Mottled Sculpin	1	8	2	9	3	17
Bluntnose Minnow	4	9	0	0	4	9
Emerald Shiner	33	70	22	46	55	116
Spottail Shiner	2	9	2	12	4	21
Mimic Shiner	0	0	1	1	1	1
TOTAL	59	7402	41	3517	100	10919

Gear : Small Trapnet
Date : 11/10/82
Station : V

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	2	548	0	0	2	548
Northern Pike	1	562	0	0	1	562
Burbot	1	0	0	0	1	0
Lake Herring	2	960	3	1521	5	2481
Emerald Shiner	5	15	5	17	10	32
Spottail Shiner	0	0	1	2	1	2
Mimic Shiner	1	2	0	0	1	2
Sea Lamprey	0	0	1	5	1	5
TOTAL	12	2087	10	1545	22	3632

Gear : Small Trapnet
Date : 05/08/82
Station : VI

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	1540	1	1410	2	2950
Yellow Perch	9	242	10	10	19	252
Logperch	8	12	30	653	38	665
Northern Pike	1	1570	2	3120	3	4690
Bowfin	0	0	1	3040	1	3040
Rainbow Smelt	4	40	40	14	44	54
White Sucker	1	996	31	802	32	1798
Silver Redhorse	0	0	1	1380	1	1380
Trout-perch	4	8	20	50	24	58
Brook Stickleback	4	4	0	0	4	4
Brown Bullhead	2	936	16	3492	18	4428
Mottled Sculpin	4	8	0	0	4	8
Bluntnose Minnow	4	4	10	10	14	14
Emerald Shiner	1000	647	7880	2284	8880	2931
Spottail Shiner	324	550	2390	1375	2714	1925
Mimic Shiner	4	4	30	30	34	34
Golden Shiner	4	8	20	40	24	48
TOTAL	1374	6569	10482	17710	11856	24279

Gear : Small Trapnet
Date : 05/08/82
Station : VI

Time : Night

Species	OPEN		VES.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	11	0	0	1	11
Northern Pike	7	0	9	562	16	562
Bowfin	1	0	4	0	5	0
Golden Redhorse	1	0	1	0	2	0
White Sucker	2	1050	9	1179	11	2229
Silver Redhorse	0	0	1	0	1	0
Trout-perch	3	15	2	20	5	35
Rock Bass	5	806	3	1085	8	1891
Smallmouth Bass	0	0	1	0	1	0
Brown Bullhead	16	6108	45	3822	61	9930
Bluntnose Minnow	0	0	1	4	1	4
Emerald Shiner	0	0	1	4	1	4
Spottail Shiner	4	33	6	55	10	88
Mimic Shiner	0	0	2	2	2	2
Sea Lamprey	0	0	1	176	1	176
TOTAL	40	8023	86	6909	126	14932

Gear : Small Trapnet
Date : 06/04/82
Station : VI

Time : Night

Species	OPEN		VES.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	2	4	6	18	8	22
Johnny Darter	1	1	0	0	1	1
Logperch	3	10	2	11	5	20
White Sucker	1	846	3	1712	4	2558
Trout-perch	23	116	43	177	66	293
Rock Bass	0	0	3	330	3	330
Bluntnose Minnow	10	29	5	14	15	43
Emerald Shiner	1	2	3	10	4	12
Spottail Shiner	5	17	2	12	7	29
Mimic Shiner	5	8	8	9	13	17
TOTAL	51	1034	75	2292	126	3326

Gear : Small Trapnet
Date : 06/05/82
Station : VI

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	84	48	132	49	216
Logperch	0	0	15	44	15	44
Rainbow Smelt	1	2	0	0	1	2
White Sucker	0	0	2	24	2	24
Trout-perch	2	4	17	40	19	43
Ninespine Stickleback	1	3	2	4	3	7
Bluntnose Minnow	13	43	40	26	53	69
Emerald Shiner	253	614	1550	4397	1803	5012
Spottail Shiner	226	336	930	1488	1156	1824
Mimic Shiner	462	616	160	98	622	714
Common Shiner	1	5	0	0	1	5
Golden Shiner	4	18	0	0	4	18
TOTAL	964	1725	2764	6253	3728	7979

Gear : Small Trapnet
Date : 07/07/82
Station : VI

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	2	2	9	11	11	13
Yellow Perch	1	154	0	0	1	154
Trout-perch	14	72	0	0	14	72
Emerald Shiner	36	130	0	0	36	130
Spottail Shiner	6	14	1	1	7	15
Mimic Shiner	20	34	1	2	21	37
Common Shiner	1	3	0	0	1	3
Golden Shiner	1	1	0	0	1	1
TOTAL	81	411	11	15	92	425

Gear : Small Trapnet
Date : 07/07/82
Station : VI

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	2	255	26	46	28	301
White Sucker	0	0	1	5	1	5
Trout-perch	45	111	26	142	71	254
Rock Bass	2	625	0	0	2	625
Emerald Shiner	1	2	4	18	5	20
Spottail Shiner	0	0	19	45	19	45
Misic Shiner	1	2	2	5	3	7
TOTAL	51	995	78	262	129	1257

Gear : Small Trapnet
Date : 08/11/82
Station : VI

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	2	2	5	3	7
Yellow Perch	10	12	14	13	24	25
Johnny Darter	1	1	0	0	1	1
Logperch	1	5	1	2	2	7
Northern Pike	0	0	7	3414	7	3414
White Sucker	0	0	1	926	1	926
Trout-perch	4	22	7	16	11	38
Rock Bass	1	1	0	0	1	1
Mottled Sculpin	3	21	0	0	3	21
Bluntnose Minnow	2	4	0	0	2	4
Emerald Shiner	1	3	3	5	4	8
TOTAL	24	71	35	4381	59	4451

Gear : Small Trapnet
Date : 08/11/82
Station : VI

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	1	3	1	3
Yellow Perch	3	278	11	16	14	294
Northern Pike	0	0	3	2960	3	2960
White Sucker	1	462	1	1000	2	1462
Silver Redhorse	0	0	1	1890	1	1890
Trout-perch	3	17	18	62	21	79
Rock Bass	3	698	0	0	3	698
Smallmouth Bass	0	0	1	620	1	620
Channel Catfish	0	0	1	1280	1	1280
Brown Bullhead	1	50	0	0	1	50
Mottled Sculpin	1	6	1	8	2	14
TOTAL	12	1511	38	7839	50	9350

Gear : Small Trapnet
Date : 09/08/82
Station : VI

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	3	25	2	5	5	30
Yellow Perch	2	13	0	0	2	13
Trout-perch	1	2	1	7	2	9
Pumpkinseed	2	23	0	0	2	23
Rock Bass	1	8	0	0	1	8
Smallmouth Bass	1	3	0	0	1	3
Alewife	1	1	0	0	1	1
Gizzard Shad	0	0	2	5	2	5
Mottled Sculpin	1	14	0	0	1	14
Bluntnose Minnow	4	10	0	0	4	10
Emerald Shiner	2	5	2	4	4	9
Spottail Shiner	1	3	0	0	1	3
Golden Shiner	4	14	5	27	9	41
TOTAL	23	123	12	49	35	168

Gear : Small Trapnet
Date : 09/08/82
Station : VI

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Silver Lamprey	0	0	1	21	1	21
White Sucker	1	2	1	390	2	392
Silver Redhorse	0	0	1	2260	1	2260
Trout-perch	9	39	3	9	12	48
Smallmouth Bass	0	0	1	2	1	2
Brown Bullhead	0	0	5	2025	5	2025
Alewife	0	0	1	1	1	1
Bluntnose Minnow	8	17	3	7	11	24
Emerald Shiner	0	0	1	7	1	7
TOTAL	18	49	13	5319	36	5368

Gear : Small Trapnet
Date : 10/03/82
Station : VI

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	3	5	3	26	6	31
Northern Pike	3	2720	3	1400	6	4120
White Sucker	2	704	3	2268	5	2972
Trout-perch	5	5	25	66	30	71
Unknown Centrarchid	0	0	2	2	2	2
Black Crappie	0	0	1	1	1	1
Brown Bullhead	0	0	1	542	1	542
Gizzard Shad	0	0	1	1	1	1
Mottled Sculpin	1	5	0	0	1	5
Emerald Shiner	4	8	24	49	28	57
Spottail Shiner	0	0	4	17	4	17
Mimic Shiner	0	0	5	9	5	9
TOTAL	18	3448	73	7280	91	10828

Gear : Small Trapnet
Date : 10/04/82
Station : VI

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	5	1	50	2	55
Yellow Perch	7	76	3	89	10	165
White Sucker	0	0	1	2	1	2
Trout-perch	6	20	0	0	6	20
Unknown Centrarchid	2	0	0	0	2	0
Rock Bass	2	2	2	3	4	5
Brown Bullhead	0	0	2	1056	2	1056
Gizzard Shad	1	2	1	41	2	43
Bluntnose Minnow	4	9	0	0	4	9
Emerald Shiner	0	0	36	66	36	66
Spottail Shiner	0	0	3	9	3	9
Common Shiner	0	0	1	5	1	5
Golden Shiner	0	0	1	5	1	5
TOTAL	23	114	51	1325	74	1438

Gear : Small Trapnet
Date : 11/09/82
Station : VI

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	18	4	22	5	40
Northern Pike	0	0	1	1060	1	1060
Burbot	3	5420	0	0	3	5420
White Sucker	1	1260	4	2605	5	3865
Trout-perch	3	8	3	18	6	26
Brown Bullhead	1	36	0	0	1	36
Bluntnose Minnow	2	3	0	0	2	3
Emerald Shiner	6	10	94	170	100	180
TOTAL	17	6809	106	3875	123	10683

Gear : Small Trapnet
Date : 11/10/82
Station : VI

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	5	381	3	9	8	390
Northern Pike	1	590	0	0	1	590
White Sucker	4	2107	0	0	4	2107
Trout-perch	2	13	1	4	3	17
Rock Bass	0	0	1	2	1	2
Emerald Shiner	14	22	95	180	109	202
Spottail Shiner	2	7	1	3	3	10
Mimic Shiner	12	17	0	0	12	17
TOTAL	40	3136	101	198	141	3334

Gear : Small Trapnet
Date : 05/05/82
Station : VII

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	2	2446	0	0	2	2446
Yellow Perch	4	527	0	0	4	527
Northern Pike	3	2790	1	760	4	3550
Bowfin	7	21580	1	3190	8	24770
Rainbow Smelt	0	0	1	16	1	16
White Sucker	2	1876	0	0	2	1876
Pumpkinseed	1	202	0	0	1	202
Rock Bass	3	1132	1	172	4	1304
Brown Bullhead	168	58951	19	4769	187	63720
Bluntnose Minnow	10	30	2	3	12	33
Mimic Shiner	8	13	0	0	8	13
TOTAL	208	89456	25	8890	233	98346

Gear : Small Trapnet
Date : 05/06/82
Station : VII

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	2	322	0	0	2	322
Logperch	0	0	1	7	1	7
Muskellunge	0	0	1	27	1	27
Trout-perch	1	8	2	8	3	16
Rock Bass	1	1	0	0	1	1
Smallmouth Bass	1	1190	0	0	1	1190
Brown Bullhead	4	1502	0	0	4	1502
Bluntnose Minnow	47	109	10	18	57	127
Emerald Shiner	130	310	1	1	131	311
Spottail Shiner	103	542	1	1	104	543
Mimic Shiner	29	35	15	16	44	51
Common Shiner	5	29	0	0	5	29
Golden Shiner	5	15	0	0	5	15
TOTAL	328	4063	31	78	359	4141

Gear : Small Trapnet
Date : [illegible] 82
Station : VII

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	1	250	1	250
Yellow Perch	0	0	1	2	1	2
Northern Pike	1	1020	1	1020	2	2040
Silver Redhorse	5	9000	0	0	5	9000
Rock Bass	7	1344	0	0	7	1344
Brown Bullhead	5	1436	1	224	6	1660
Bluntnose Minnow	0	0	2	2	2	2
Emerald Shiner	0	0	27	47	27	47
Misic Shiner	0	0	7	7	7	7
Golden Shiner	0	0	1	3	1	3
TOTAL	18	12800	41	1556	59	14356

Gear : Small Trapnet
Date : 06/06/82
Station : VII

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	3	209	20	159	23	368
Ninespine Stickleback	1	1	2	3	3	4
Threespine Stickleback	1	2	0	0	1	2
Bluntnose Minnow	3	5	39	135	42	140
Emerald Shiner	9	24	2	5	11	30
Spottail Shiner	0	0	59	80	59	80
Misic Shiner	44	58	1047	1404	1091	1462
Common Shiner	0	0	7	33	7	33
TOTAL	61	300	1176	1817	1237	2117

Gear : Small Trapnet
Date : 07/08/82
Station : VII

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	30	152	8	11	38	163
Yellow Perch	5	67	0	0	5	67
Northern Pike	1	154	0	0	1	154
White Sucker	1	936	1	880	2	1816
Trout-perch	2	4	1	1	3	5
Rock Bass	1	214	0	0	1	214
Bluntnose Minnow	37	75	10	21	47	96
Emerald Shiner	5	9	3	7	8	15
Spottail Shiner	113	195	223	393	336	588
Mimic Shiner	58	73	64	59	122	132
Common Shiner	1	4	0	0	1	4
Golden Shiner	4	13	1	1	5	14
TOTAL	258	1896	311	1373	569	3268

Gear : Small Trapnet
Date : 07/08/82
Station : VII

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	3	5	1	1	4	6
Bowfin	0	0	1	1850	1	1850
White Sucker	0	0	1	860	1	860
Silver Redhorse	1	2800	0	0	1	2800
Trout-perch	1	2	1	6	2	7
Rock Bass	2	160	0	0	2	160
Bluntnose Minnow	22	41	7	10	29	51
Spottail Shiner	8	12	8	15	16	27
Mimic Shiner	3	4	2	4	5	8
Common Shiner	0	0	1	4	1	4
Golden Shiner	5	7	2	4	7	12
TOTAL	45	3032	24	2754	69	5785

Gear : Small Trapnet
Date : 08/09/82
Station : VII

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	5	17	0	0	5	17
Yellow Perch	21	39	122	112	143	151
Rock Bass	1	4	0	0	1	4
Smallmouth Bass	4	464	2	3	6	467
Bluntnose Minnow	55	84	17	32	72	116
Emerald Shiner	11	15	0	0	11	15
Spottail Shiner	8	11	0	0	8	11
Mimic Shiner	69	59	3	2	72	61
Common Shiner	6	19	0	0	6	19
TOTAL	180	712	144	149	324	861

Gear : Small Trapnet
Date : 08/09/82
Station : VII

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	3	343	0	0	3	343
Yellow Perch	6	5	21	20	27	25
White Sucker	0	0	1	918	1	918
Pumpkinseed	1	6	0	0	1	6
Smallmouth Bass	1	2	0	0	1	2
Brown Bullhead	5	758	0	0	5	758
Bluntnose Minnow	15	26	2	4	17	30
Mimic Shiner	3	4	0	0	3	4
TOTAL	34	1142	24	942	58	2084

Gear : Small Trapnet
Date : 09/08/92
Station : VII

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	63	6	92	7	155
Pumpkinseed	1	0	0	0	1	0
Brown Bullhead	1	229	0	0	1	229
Bluntnose Minnow	2	3	11	35	13	38
Mimic Shiner	14	19	0	0	14	19
Common Shiner	0	0	1	2	1	2
Notropis sp.	1	0	0	0	1	0
Golden Shiner	0	0	2	2	2	2
TOTAL	20	315	20	130	40	445

Gear : Small Trapnet
Date : 09/08/92
Station : VII

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	2	141	2	141
White Sucker	1	1110	0	0	1	1110
Rock Bass	0	0	1	7	1	7
Brown Bullhead	8	2127	0	0	8	2127
Bluntnose Minnow	0	0	1	3	1	3
TOTAL	9	3237	4	151	13	3388

Gear : Small Trapnet
Date : 10/04/82
Station : VII

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	3	117	3	117
Northern Pike	1	2700	0	0	1	2700
Bowfin	1	1400	0	0	1	1400
White Sucker	21	20336	2	1876	23	22212
Trout-perch	0	0	1	2	1	2
Unknown Centrarchid	0	0	1	1	1	1
Brown Bullhead	51	15803	0	0	51	15803
Gizzard Shad	1	2	0	0	1	2
Slimy Sculpin	1	1	0	0	1	1
Bluntnose Minnow	0	0	1	4	1	4
Emerald Shiner	0	0	1	2	1	2
TOTAL	76	40241	9	2002	85	42243

Gear : Small Trapnet
Date : 10/05/82
Station : VII

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	3	24	0	0	3	24
Johnny Darter	1	2	0	0	1	2
White Sucker	0	0	1	3	1	3
Unknown Centrarchid	3	4	0	0	3	4
Black Crappie	1	1	0	0	1	1
Rock Bass	3	6	0	0	3	6
Smallmouth Bass	1	2	0	0	1	2
Brown Bullhead	3	644	0	0	3	644
Alewife	5	9	1	1	6	10
Bluntnose Minnow	6	15	1	1	7	16
Emerald Shiner	0	0	1	3	1	3
Notropis sp.	1	2	0	0	1	2
Golden Shiner	3	5	0	0	3	5
TOTAL	30	714	4	8	34	721

Gear : Small Trapnet
Date : 11/08/82
Station : VII

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	24	296	4	141	28	437
White Sucker	3	11	0	0	3	11
Trout-perch	3	8	0	0	3	8
Black Crappie	1	2	1	2	2	4
Pumpkinseed	1	114	1	19	2	133
Rock Bass	1	1	2	520	3	521
Blacknose Shiner	1	2	0	0	1	2
Spottail Shiner	1	2	0	0	1	2
Golden Shiner	3	10	1	2	4	12
TOTAL	38	446	9	684	47	1130

Gear : Small Trapnet
Date : 11/09/82
Station : VII

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	2	163	2	163
White Sucker	1	1170	0	0	1	1170
Bluntnose Minnow	1	2	0	0	1	2
TOTAL	2	1172	2	163	4	1335

Gear : Small Trapnet
Date : 05/09/83
Station : I

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Northern Pike	1	400	0	0	1	400
Rainbow Smelt	0	0	1	1	1	1
White Sucker	53	12260	3	7	56	12267
Silver Redhorse	1	1100	0	0	1	1100
Rock Bass	2	301	0	0	2	301
Ninespine Stickleback	2	5	0	0	2	5
Brook Stickleback	1	2	1	1	2	3
Mottled Sculpin	2	7	0	0	2	7
Bluntnose Minnow	12	22	2	2	14	24
Emerald Shiner	72	134	5	6	77	141
Spottail Shiner	4	19	0	0	4	19
Mimic Shiner	28	41	9	13	37	54
Sea Lamprey	1	7	0	0	1	7
TOTAL	179	14298	21	31	200	14329

Gear : Small Trapnet
Date : 05/10/83
Station : I

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	2	3	0	0	2	3
Rainbow Smelt	9	14	0	0	9	14
White Sucker	47	134	6	12	53	146
Ninespine Stickleback	5	10	0	0	5	10
Brook Stickleback	1	2	0	0	1	2
Bluntnose Minnow	35	85	32	64	67	149
Emerald Shiner	103	181	19	35	122	216
Spottail Shiner	26	93	0	0	26	93
Mimic Shiner	33	60	48	66	81	125
Common Shiner	1	4	2	5	3	9
TOTAL	262	586	107	182	369	767

Gear : Small Trapnet
Date : 06/08/83
Station : I

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	104	108	0	0	104	108
Rainbow Smelt	342	660	0	0	342	660
White Sucker	6	4	0	0	6	4
Ninespine Stickleback	2	6	0	0	2	6
Emerald Shiner	12	30	0	0	12	30
Spottail Shiner	992	6350	0	0	992	6350
Mimic Shiner	16	31	0	0	16	31
TOTAL	1474	7189	0	0	1474	7189

Gear : Small Trapnet
Date : 06/08/83
Station : I

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Rainbow Smelt	10	27	0	0	10	27
White Sucker	3	898	0	0	3	898
Trout-perch	3	16	0	0	3	16
Mottled Sculpin	1	2	0	0	1	2
Bluntnose Minnow	1	4	0	0	1	4
Spottail Shiner	36	215	0	0	36	215
Mimic Shiner	5	9	0	0	5	9
Common Shiner	1	7	0	0	1	7
TOTAL	60	1177	0	0	60	1177

Gear : Small Trapnet
Date : 06/08/83
Station : I

Time : Day

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	4	5	4	5
Rainbow Smelt	0	0	86	172	86	172
White Sucker	0	0	10	16	10	16
Bluntnose Minnow	0	0	8	56	8	56
Emerald Shiner	0	0	12	24	12	24
Spottail Shiner	0	0	1076	7250	1076	7250
Mimic Shiner	0	0	14	30	14	30
Common Shiner	0	0	8	57	8	57
TOTAL	0	0	1218	7610	1218	7610

Gear : Small Trapnet
Date : 06/08/83
Station : I

Time : Night

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Rainbow Smelt	0	0	5	19	5	19
Trout-perch	0	0	1	1	1	1
Rock Bass	0	0	2	177	2	177
Ninespine Stickleback	0	0	1	3	1	3
Spottail Shiner	0	0	5	31	5	31
Mimic Shiner	0	0	1	1	1	1
TOTAL	0	0	15	233	15	233

Gear : Small Trapnet
Date : 07/11/83
Station : I

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	3	0	0	1	3
White Sucker	2	6	0	0	2	6
Brassy Minnow	3	5	0	0	3	5
Bluntnose Minnow	2	7	1	2	3	9
Emerald Shiner	1	3	9	26	10	29
Spottail Shiner	9	45	6	15	15	60
Mimic Shiner	16	26	1	2	17	28
Common Shiner	5	31	0	0	5	31
TOTAL	39	126	17	44	56	170

Gear : Small Trapnet
Date : 07/12/83
Station : I

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	6	16	6	16
Logperch	0	0	1	1	1	1
White Sucker	0	0	28	736	28	736
Trout-perch	3	8	0	0	3	8
Brassy Minnow	0	0	2	3	2	3
Bluntnose Minnow	0	0	6	16	6	16
Emerald Shiner	2	3	0	0	2	3
Spottail Shiner	84	449	42	56	126	505
Mimic Shiner	9	17	126	205	135	222
Common Shiner	1	8	2	10	3	18
TOTAL	99	484	213	1042	312	1526

Gear : Small Trapnet
Date : 08/15/83
Station : I

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	8	12	1	1	9	13
White Sucker	2	3	2	33	4	36
Trout-perch	1	7	0	0	1	7
Rock Bass	0	0	1	5	1	5
Gizzard Shad	17	33	0	0	17	33
Lake Chub	1	4	0	0	1	4
Bluntnose Minnow	7	18	0	0	7	18
Longnose Dace	1	2	0	0	1	2
Emerald Shiner	14	59	0	0	14	59
Spottail Shiner	1	4	0	0	1	4
Mimic Shiner	3	6	2	2	5	8
Common Shiner	13	43	0	0	13	43
TOTAL	68	191	6	40	74	231

Gear : Small Trapnet
Date : 08/16/83
Station : I

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	247	378	79	105	326	483
Northern Pike	1	1	1	8	2	9
White Sucker	321	763	14	36	335	799
Bluegill	1	1	3	2	4	3
Rock Bass	0	0	1	1	1	1
Smallmouth Bass	2	3	0	0	2	3
Alewife	1	1	1	1	2	2
Sizzard Shad	2	3	0	0	2	3
Brassy Minnow	5	15	0	0	5	15
Bluntnose Minnow	29	117	6	13	35	131
Emerald Shiner	11	25	0	0	11	25
Spottail Shiner	105	254	11	28	116	282
Mimic Shiner	402	402	5	10	407	412
Common Shiner	6	24	4	23	10	47
Notropis sp.	0	0	2	1	2	1
TOTAL	1133	1988	127	227	1260	2215

Gear : Small Trapnet
Date : 09/17/83
Station : I

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	6	0	0	1	6
Northern Pike	2	79	0	0	2	79
White Sucker	20	2169	0	0	20	2169
Silver Redhorse	2	7	0	0	2	7
Pink Salmon	4	2761	0	0	4	2761
Bluegill	44	31	0	0	44	31
Rock Bass	7	10	0	0	7	10
Smallmouth Bass	1	5	0	0	1	5
Gizzard Shad	36	55	0	0	36	55
Bluntnose Minnow	1	2	0	0	1	2
Longnose Dace	1	8	0	0	1	8
Spottail Shiner	1	6	0	0	1	6
Mimic Shiner	1	2	0	0	1	2
Common Shiner	1	1	0	0	1	1
TOTAL	122	5143	0	0	122	5143

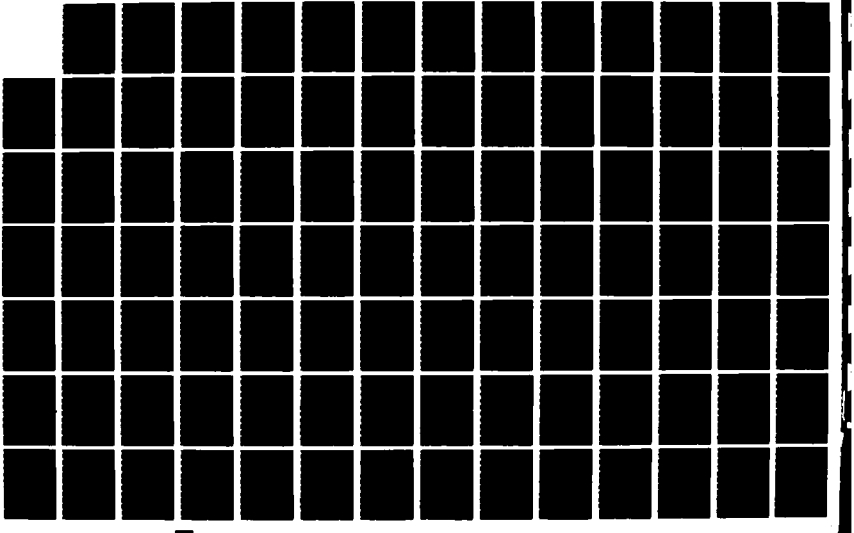
Gear : Small Trapnet
Date : 09/17/83
Station : I

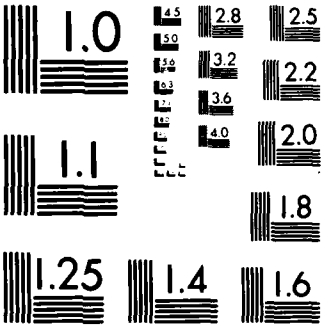
Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	2	0	0	1	2
White Sucker	8	767	0	0	8	767
Silver Redhorse	1	5	0	0	1	5
Chinook Salmon	1	6700	0	0	1	6700
Pink Salmon	2	2160	0	0	2	2160
Trout-perch	1	2	0	0	1	2
Bluegill	46	40	0	0	46	40
Rock Bass	17	21	0	0	17	21
Ninespine Stickleback	1	1	0	0	1	1
Brown Bullhead	1	14	0	0	1	14
Gizzard Shad	17	18	0	0	17	18
Bluntnose Minnow	2	7	0	0	2	7
TOTAL	98	9736	0	0	98	9736

AD-A184 685 LIMNOLOGICAL AND FISHERIES STUDIES OF THE ST MARYS RIVER MICHIGAN IN RELA (U) MICHIGAN STATE UNIV EAST LANSING MI DEPT OF FISHERIES AND WIL 5/7

UNCLASSIFIED C R LISTON ET AL JAN 86 F/G 24/4 NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963-A

Gear : Small Trapnet
Date : 09/17/83
Station : I

Time : Day

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Silver Redhorse	0	0	1	6	1	6
Bluegill	0	0	107	86	107	86
Rock Bass	0	0	2	2	2	2
Brown Bullhead	0	0	1	13	1	13
Gizzard Shad	0	0	3	2	3	2
Mimic Shiner	0	0	1	2	1	2
TOTAL	0	0	115	110	115	110

Gear : Small Trapnet
Date : 09/17/83
Station : I

Time : Night

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	1	2	1	2
White Sucker	0	0	19	220	19	220
Silver Redhorse	0	0	4	19	4	19
Bluegill	0	0	126	95	126	95
Rock Bass	0	0	9	20	9	20
Brown Bullhead	0	0	55	473	55	473
Sizzard Shad	0	0	1	1	1	1
Carp	0	0	2	43	2	43
Common Shiner	0	0	1	2	1	2
Golden Shiner	0	0	1	6	1	6
TOTAL	0	0	219	881	219	881

Gear : Small Trapnet
Date : 10/10/83
Station : I

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	2	8	4	10	6	18
White Sucker	16	746	25	147	41	893
Silver Redhorse	3	12	3	10	6	22
Trout-perch	1	1	0	0	1	1
Bluegill	0	0	2	2	2	2
Rock Bass	25	36	10	18	35	54
Gizzard Shad	2	1	3	1	5	2
Mottled Sculpin	0	0	2	9	2	9
Brassy Minnow	1	6	0	0	1	6
Bluntnose Minnow	27	77	9	22	36	99
Longnose Dace	1	1	4	17	5	18
Emerald Shiner	4	11	0	0	4	11
Mimic Shiner	120	201	64	111	184	313
Common Shiner	8	11	7	19	15	30
TOTAL	210	1111	133	365	343	1476

Gear : Small Trapnet
Date : 10/11/83
Station : I

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	28	78	1	3	29	80
White Sucker	1	4	3	21	4	24
Silver Redhorse	0	0	1	4	1	4
Bluegill	1	1	5	6	6	7
Rock Bass	1	1	0	0	1	1
Smallmouth Bass	1	9	0	0	1	9
Gizzard Shad	0	0	1	1	1	1
Emerald Shiner	0	0	58	81	58	81
Spottail Shiner	0	0	2	3	2	3
Mimic Shiner	2	5	9	22	11	27
TOTAL	34	98	80	139	114	238

Gear : Small Trapnet
Date : 11/14/83
Station : I

Time : Day

Species	OPEN		VEG. *		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
White Sucker	5	567	0	0	5	567
Emerald Shiner	46	167	0	0	46	167
Spottail Shiner	69	152	0	0	69	152
Mimic Shiner	63	102	0	0	63	102
Common Shiner	1	1	0	0	1	1
TOTAL	184	989	0	0	184	989

Gear : Small Trapnet
Date : 11/14/83
Station : I

Time : Night

Species	OPEN		VEG. *		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	4	0	0	1	4
Northern Pike	5	355	0	0	5	355
White Sucker	23	2051	0	0	23	2051
Rock Bass	3	7	0	0	3	7
Bluntnose Minnow	4	19	0	0	4	19
Emerald Shiner	472	2263	0	0	472	2263
Spottail Shiner	103	321	0	0	103	321
Mimic Shiner	85	185	0	0	85	185
Common Shiner	2	20	0	0	2	20
Golden Shiner	1	6	0	0	1	6
TOTAL	699	5230	0	0	699	5230

Gear : Small Trapnet
Date : 05/04/83
Station : II

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Emerald Shiner	1	2	0	0	1	2
TOTAL	1	2	0	0	1	2

Gear : Small Trapnet
Date : 05/04/83
Station : II

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Northern Pike	1	950	0	0	1	950
White Sucker	1	2	0	0	1	2
Bluntnose Minnow	1	1	0	0	1	1
Common Shiner	1	2	0	0	1	2
TOTAL	4	856	0	0	4	856

Gear : Small Trapnet
Date : 05/04/83
Station : II

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
TOTAL	0	0	0	0	0	0

Gear : Small Trapnet
Date : 05/04/83
Station : II
Time : Night

Species	OPEN # Number	OPEN # Weight(g)	VEG. Number	VEG. Weight(g)	COMBINED Number	COMBINED Weight(g)
Common Shiner	0	0	1	2	1	2
TOTAL	0	0	1	2	1	2

Gear : Small Trapnet
Date : 06/06/83
Station : II
Time : Day

Species	OPEN Number	OPEN Weight(g)	VEG. Number	VEG. Weight(g)	COMBINED Number	COMBINED Weight(g)
Blacknose Shiner	3	4	0	0	3	4
Mimic Shiner	1	1	0	0	1	1
Common Shiner	1	4	0	0	1	4
TOTAL	5	9	0	0	5	9

Gear : Small Trapnet
Date : 06/07/83
Station : II
Time : Night

Species	OPEN Number	OPEN Weight(g)	VEG. Number	VEG. Weight(g)	COMBINED Number	COMBINED Weight(g)
Brown Bullhead	0	0	1	175	1	175
Blacknose Shiner	1	1	0	0	1	1
TOTAL	1	1	1	175	2	176

Gear : Small Trapnet
Date : 07/05/83
Station : II

Time : Day

Species	OPEN		VEG. #		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
White Sucker	2	1844	0	0	2	1844
Common Shiner	2	2	0	0	2	2
TOTAL	4	1846	0	0	4	1846

Gear : Small Trapnet
Date : 07/05/83
Station : II

Time : Night

Species	OPEN		VEG. #		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
White Sucker	5	4339	0	0	5	4339
Brown Bullhead	1	136	0	0	1	136
TOTAL	6	4475	0	0	6	4475

Gear : Small Trapnet
Date : 07/05/83
Station : II

Time : Day

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Mimic Shiner	0	0	1	1	1	1
TOTAL	0	0	1	1	1	1

Gear : Small Trapnet
Date : 07/05/83
Station : II

Time : Night

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Northern Pike	0	0	1	2920	1	2920
White Sucker	0	0	2	1505	2	1505
Silver Redhorse	0	0	1	2200	1	2200
Brown Bullhead	0	0	2	442	2	442
Common Shiner	0	0	1	1	1	1
TOTAL	0	0	7	7068	7	7068

Gear : Small Trapnet
Date : 08/01/83
Station : II

Time : Day

Species	OPEN		VEG. #		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	406	581	0	0	406	581
Bluegill	1681	1000	0	0	1681	1000
Rock Bass	12	18	0	0	12	18
Smallmouth Bass	25	74	0	0	25	74
Mimic Shiner	6	9	0	0	6	9
TOTAL	2130	1682	0	0	2130	1682

Gear : Small Trapnet
Date : 08/01/83
Station : II

Time : Night

Species	OPEN		VEG. *		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	18	317	0	0	18	317
White Sucker	2	741	0	0	2	741
Bluegill	216	119	0	0	216	119
Pumpkinseed	1	4	0	0	1	4
Rock Bass	69	39	0	0	69	39
Smallmouth Bass	1	1	0	0	1	1
Brown Bullhead	1	2	0	0	1	2
Bluntnose Minnow	3	11	0	0	3	11
Golden Shiner	1	12	0	0	1	12
TOTAL	312	1246	0	0	312	1246

Gear : Small Trapnet
Date : 08/01/83
Station : II

Time : Day

Species	OPEN *		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	45	55	45	55
Bluegill	0	0	1502	2719	1502	2719
Rock Bass	0	0	4	2	4	2
Blacknose Shiner	0	0	1	1	1	1
TOTAL	0	0	1552	2777	1552	2777

Gear : Small Trapnet
Date : 08/31/83
Station : II

Time : Night

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight g
Yellow Perch	0	0	1	2	1	2
Silver Redhorse	0	0	3	4680	3	4680
Bluegill	0	0	1	1	1	1
Pumpkinseed	0	0	1	8	1	8
Rock Bass	0	0	1	1	1	1
Brown Bullhead	0	0	181	25489	181	25489
TOTAL	0	0	188	30180	188	30180

Gear : Small Trapnet
Date : 09/06/83
Station : II

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	3	0	0	1	3
White Sucker	3	794	1	1080	4	1874
Bluegill	2	3	0	0	2	3
Rock Bass	3	105	0	0	3	105
Smallmouth Bass	1	5	0	0	1	5
Brown Bullhead	270	675	7	9	277	684
Banded Killifish	2	4	0	0	2	4
Common Shiner	1	7	0	0	1	7
Golden Shiner	0	0	1	1	1	1
TOTAL	283	1595	9	1090	292	2685

Gear : Small Trapnet
Date : 09/07/83
Station : II

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	2	6	0	0	2	6
Bluegill	11	10	0	0	11	10
Brown Bullhead	0	0	2	4	2	4
TOTAL	13	16	2	4	15	20

Gear : Small Trapnet
Date : 10/03/83
Station : II

Time : Day

Species	OPEN		VEG. #		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
White Sucker	4	5	0	0	4	5
Bluegill	1	1	0	0	1	1
TOTAL	5	6	0	0	5	6

Gear : Small Trapnet
Date : 10/03/83
Station : II

Time : Night

Species	OPEN		VEG. #		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
White Sucker	1	955	0	0	1	955
Trout-perch	1	1	0	0	1	1
TOTAL	2	956	0	0	2	956

Gear : Small Trapnet
Date : 10/03/83
Station : II

Time : Day

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
White Sucker	0	0	3	2309	3	2309
Smallmouth Bass	0	0	1	15	1	15
TOTAL	0	0	4	2324	4	2324

Gear : Small Trapnet
Date : 10/03/83
Station : II

Time : Night

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
White Sucker	0	0	15	12183	15	12183
Pumpkinseed	0	0	1	16	1	16
Brown Bullhead	0	0	477	16869	477	16869
TOTAL	0	0	493	29068	493	29068

Gear : Small Trapnet
Date : 11/01/83
Station : II

Time : Day

Species	OPEN		VEG. #		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Bluegill	7	10	0	0	7	10
Rock Bass	3	4	0	0	3	4
Mimic Shiner	1	2	0	0	1	2
TOTAL	11	16	0	0	11	16

Gear : Small Trapnet
Date : 11/01/83
Station : II

Time : Night

Species	OPEN		VEG. #		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	2	0	0	1	2
White Sucker	2	20	0	0	2	20
Bluegill	5	5	0	0	5	5
Rock Bass	1	1	0	0	1	1
TOTAL	9	29	0	0	9	29

Gear : Small Trapnet
Date : 11/01/83
Station : II

Time : Day

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Bluegill	0	0	3	3	3	3
TOTAL	0	0	3	3	3	3

Gear : Small Trapnet
Date : 11/01/83
Station : II

Time : Night

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
White Sucker	0	0	18	16070	18	16070
Rock Bass	0	0	1	1	1	1
Brown Bullhead	0	0	63	1103	63	1103
TOTAL	0	0	82	17174	82	17174

Gear : Small Trapnet
Date : 05/03/83
Station : III

Time : Day

Species	OPEN		VEG. #		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Mimic Shiner	1	1	0	0	1	1
TOTAL	1	1	0	0	1	1

Gear : Small Trapnet
Date : 05/03/83
Station : III

Time : Night

Species	OPEN		VEG. #		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Rainbow Smelt	2	3	0	0	2	3
White Sucker	7	911	0	0	7	911
Lake Chub	2	54	0	0	2	54
Finescale Dace	1	3	0	0	1	3
Bluntnose Minnow	2	10	0	0	2	10
Emerald Shiner	9	18	0	0	9	18
Mimic Shiner	13	15	0	0	13	15
TOTAL	36	1015	0	0	36	1015

Gear : Small Trapnet
Date : 05/03/83
Station : III

Time : Day

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
TOTAL	0	0	0	0	0	0

Gear : Small Trapnet
Date : 05/03/83
Station : III

Time : Night

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
White Sucker	0	0	1	920	1	920
Emerald Shiner	0	0	2	3	2	3
Mimic Shiner	0	0	2	2	2	2
TOTAL	0	0	5	925	5	925

Gear : Small Trapnet
Date : 06/13/83
Station : III

Time : Day

Species	OPEN		VEG. #		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Spottail Shiner	1	6	0	0	1	6
Mimic Shiner	1	1	0	0	1	1
TOTAL	2	7	0	0	2	7

Gear : Small Trapnet
Date : 06/13/83
Station : III

Time : Night

Species	OPEN		VEG. #		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Johnny Darter	1	2	0	0	1	2
White Sucker	2	1055	0	0	2	1055
Rock Bass	3	280	0	0	3	280
Lake Chub	1	4	0	0	1	4
Spottail Shiner	4	30	0	0	4	30
Mimic Shiner	22	45	0	0	22	45
Common Shiner	6	19	0	0	6	19
TOTAL	39	1436	0	0	39	1436

Gear : Small Trapnet
Date : 06/13/83
Station : III

Time : Day

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
TOTAL	0	0	0	0	0	0

Gear : Small Trapnet
Date : 06/13/83
Station : III

Time : Night

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
White Sucker	0	0	1	2	1	2
Ninespine Stickleback	0	0	2	6	2	6
Brassy Minnow	0	0	1	1	1	1
Bluntnose Minnow	0	0	1	4	1	4
Mimic Shiner	0	0	14	27	14	27
TOTAL	0	0	19	41	19	41

Gear : Small Trapnet
Date : 07/06/83
Station : III

Time : Day

Species	OPEN		VEG. #		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	32	0	0	1	32
Johnny Darter	2	3	0	0	2	3
Logperch	9	28	0	0	9	28
White Sucker	11	37	0	0	11	37
Banded Killifish	1	1	0	0	1	1
Brassy Minnow	2	3	0	0	2	3
Bluntnose Minnow	25	55	0	0	25	55
Mimic Shiner	325	530	0	0	325	530
Common Shiner	1	4	0	0	1	4
TOTAL	377	694	0	0	377	694

Gear : Small Trapnet
Date : 07/06/83
Station : III

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	7	0	0	1	7
Logperch	3	9	0	0	3	9
White Sucker	3	12	0	0	3	12
Trout-perch	1	5	0	0	1	5
Rock Bass	1	50	0	0	1	50
Bluntnose Minnow	27	101	0	0	27	101
Longnose Dace	1	2	0	0	1	2
Emerald Shiner	8	10	0	0	8	10
Spottail Shiner	2	12	0	0	2	12
Mimic Shiner	109	183	0	0	109	183
Common Shiner	6	18	0	0	6	18
TOTAL	162	408	0	0	162	408

Gear : Small Trapnet
Date : 07/06/83
Station : III

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Northern Pike	0	0	1	8	1	8
Mimic Shiner	0	0	1	2	1	2
TOTAL	0	0	2	10	2	10

Gear : Small Trapnet
Date : 07/06/83
Station : III

Time : Night

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Mottled Sculpin	0	0	1	2	1	2
Bluntnose Minnow	0	0	3	5	3	5
Mimic Shiner	0	0	11	16	11	16
TOTAL	0	0	15	23	15	23

Gear : Small Trapnet
Date : 08/02/83
Station : III

Time : Day

Species	OPEN		VEG. #		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
White Sucker	8	2	0	0	8	2
Smallmouth Bass	1	2	0	0	1	2
Bluntnose Minnow	2	7	0	0	2	7
Mimic Shiner	3	5	0	0	3	5
TOTAL	14	16	0	0	14	16

Gear : Small Trapnet
Date : 08/02/83
Station : III

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	2	3	0	0	2	3
White Sucker	1	58	0	0	1	58
Pumpkinseed	2	372	0	0	2	372
Rock Bass	4	287	0	0	4	287
Mottled Sculpin	1	4	0	0	1	4
Bluntnose Minnow	6	24	0	0	6	24
Emerald Shiner	1	4	0	0	1	4
Spottail Shiner	2	10	0	0	2	10
Mimic Shiner	4	8	0	0	4	8
Common Shiner	7	36	0	0	7	36
Golden Shiner	2	5	0	0	2	5
TOTAL	32	811	0	0	32	811

Gear : Small Trapnet
Date : 08/02/83
Station : III

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	16	21	16	21
Brook Stickleback	0	0	1	1	1	1
TOTAL	0	0	17	21	17	21

Gear : Small Trapnet
Date : 09/02/83
Station : III

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
TOTAL	0	0	0	0	0	0

Gear : Small Trapnet
Date : 09/01/83
Station : III

Time : Day

Species	OPEN		VEG. #		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	3	0	0	1	3
Logperch	1	7	0	0	1	7
Smallmouth Bass	42	449	0	0	42	449
TOTAL	44	459	0	0	44	459

Gear : Small Trapnet
Date : 09/01/83
Station : III

Time : Night

Species	OPEN		VEG. #		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	9	20	0	0	9	20
White Sucker	2	9	0	0	2	9
Black Crappie	1	3	0	0	1	3
Bluegill	9	7	0	0	9	7
Pumpkinseed	1	8	0	0	1	8
Rock Bass	3	3	0	0	3	3
Bluntnose Minnow	1	2	0	0	1	2
Mimic Shiner	1	1	0	0	1	1
Common Shiner	3	16	0	0	3	16
Golden Shiner	1	3	0	0	1	3
TOTAL	31	72	0	0	31	72

Gear : Small Trapnet
Date : 09/01/83
Station : III

Time : Day

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	2	5	2	5
Bluegill	0	0	1	1	1	1
Common Shiner	0	0	1	4	1	4
TOTAL	0	0	4	10	4	10

Gear : Small Trapnet
Date : 09/01/83
Station : III

Time : Night

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Rock Bass	0	0	1	1	1	1
Mimic Shiner	0	0	1	2	1	2
Common Shiner	0	0	1	2	1	2
TOTAL	0	0	3	5	3	5

Gear : Small Trapnet
Date : 10/04/83
Station : III

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	5	0	0	1	5
White Sucker	0	0	1	904	1	904
Trout-perch	1	1	0	0	1	1
Bluegill	0	0	1	1	1	1
Gizzard Shad	1	2	0	0	1	2
Mottled Sculpin	5	12	0	0	5	12
Emerald Shiner	5	23	0	0	5	23
Mimic Shiner	3	6	0	0	3	6
Common Shiner	0	0	1	4	1	4
TOTAL	16	49	3	909	19	958

Gear : Small Trapnet
Date : 10/05/83
Station : III

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Mimic Shiner	0	0	1	1	1	1
TOTAL	0	0	1	1	1	1

Gear : Small Trapnet
Date : 11/01/83
Station : III

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	6	0	0	1	6
Bluegill	2	3	0	0	2	3
Ninespine Stickleback	1	2	0	0	1	2
Mimic Shiner	2	4	0	0	2	4
TOTAL	6	14	0	0	6	14

Gear : Small Trapnet
Date : 11/01/83
Station : III

Time : Night

Species	OPEN		VEG. *		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	3	8	0	0	3	8
White Sucker	5	1128	0	0	5	1128
Black Crappie	1	3	0	0	1	3
Bluegill	1	2	0	0	1	2
Rock Bass	4	5	0	0	4	5
Brown Bullhead	1	2	0	0	1	2
Mottled Sculpin	4	13	0	0	4	13
Mimic Shiner	30	61	0	0	30	61
Common Shiner	2	10	0	0	2	10
TOTAL	51	1231	0	0	51	1231

Gear : Small Trapnet
Date : 11/01/83
Station : III

Time : Day

Species	OPEN *		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Mottled Sculpin	0	0	1	3	1	3
TOTAL	0	0	1	3	1	3

Gear : Small Trapnet
Date : 11/01/83
Station : III

Time : Night

Species	OPEN *		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
White Sucker	0	0	10	8040	10	8040
Rock Bass	0	0	1	2	1	2
Mottled Sculpin	0	0	2	3	2	3
Mimic Shiner	0	0	2	4	2	4
TOTAL	0	0	15	8049	15	8049

Gear : Small Trapnet
Date : 05/03/83
Station : IV

Time : Day

Species	OPEN		VEG. #		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
TOTAL	0	0	0	0	0	0

Gear : Small Trapnet
Date : 05/03/83
Station : IV

Time : Night

Species	OPEN		VEG. #		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Rainbow Smelt	2	39	0	0	2	39
White Sucker	1	3	0	0	1	3
Central Mudminnow	1	2	0	0	1	2
Spottail Shiner	1	5	0	0	1	5
Mimic Shiner	5	5	0	0	5	5
TOTAL	10	54	0	0	10	54

Gear : Small Trapnet
Date : 05/03/83
Station : IV

Time : Day

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Bluntnose Minnow	0	0	2	4	2	4
Mimic Shiner	0	0	3	4	3	4
TOTAL	0	0	5	8	5	8

Gear : Small Trapnet
Date : 05/03/83
Station : IV

Time : Night

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
White Sucker	0	0	1	2	1	2
Bluntnose Minnow	0	0	4	10	4	10
Spottail Shiner	0	0	1	1	1	1
Mimic Shiner	0	0	4	4	4	4
TOTAL	0	0	10	17	10	17

Gear : Small Trapnet
Date : 06/13/83
Station : IV

Time : Night

Species	OPEN		VEG. #		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Logperch	1	2	0	0	1	2
Mimic Shiner	8	12	0	0	8	12
TOTAL	9	15	0	0	9	15

Gear : Small Trapnet
Date : 06/13/83
Station : IV

Time : Day

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Ninespine Stickleback	0	0	1	2	1	2
Bluntnose Minnow	0	0	3	6	3	6
Mimic Shiner	0	0	30	30	30	30
TOTAL	0	0	34	37	34	37

Gear : Small Trapnet
Date : 06/13/83
Station : IV

Time : Night

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
White Sucker	0	0	2	1660	2	1660
TOTAL	0	0	2	1660	2	1660

Gear : Small Trapnet
Date : 07/06/83
Station : IV

Time : Day

Species	OPEN		VEG. #		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Logperch	1	6	0	0	1	6
Smallmouth Bass	1	120	0	0	1	120
TOTAL	2	126	0	0	2	126

Gear : Small Trapnet
Date : 07/06/83
Station : IV

Time : Night

Species	OPEN		VEG. #		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Rainbow Smelt	1	5	0	0	1	5
White Sucker	1	1050	0	0	1	1050
Trout-perch	3	17	0	0	3	17
Rock Bass	2	670	0	0	2	670
Bluntnose Minnow	1	3	0	0	1	3
Emerald Shiner	61	319	0	0	61	319
TOTAL	69	2063	0	0	69	2063

Gear : Small Trapnet
Date : 07/06/83
Station : IV

Time : Day

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
TOTAL	0	0	0	0	0	0

Gear : Small Trapnet
Date : 07/06/83
Station : IV

Time : Night

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	1	0	1	0
White Sucker	0	0	4	3750	4	3750
Brown Bullhead	0	0	1	560	1	560
Emerald Shiner	0	0	1	4	1	4
TOTAL	0	0	7	4314	7	4314

Gear : Small Trapnet
Date : 08/02/83
Station : IV

Time : Day

Species	OPEN		VEG. #		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	12	13	0	0	12	13
Logperch	2	4	0	0	2	4
White Sucker	11	5	0	0	11	5
Trout-perch	3	5	0	0	3	5
Smallmouth Bass	1	3	0	0	1	3
Mimic Shiner	3	4	0	0	3	4
TOTAL	32	34	0	0	32	34

Gear : Small Trapnet
Date : 08/02/83
Station : IV

Time : Night

Species	OPEN		VEG. #		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	19	21	0	0	19	21
Johnny Darter	1	1	0	0	1	1
Northern Pike	1	0	0	0	1	0
Silver Redhorse	1	2390	0	0	1	2390
Black Crappie	3	4	0	0	3	4
Bluegill	18	8	0	0	18	8
Rock Bass	3	245	0	0	3	245
Brown Bullhead	1	109	0	0	1	109
Bluntnose Minnow	6	18	0	0	6	18
Spottail Shiner	115	539	0	0	115	539
Mimic Shiner	51	79	0	0	51	79
Common Shiner	1	1	0	0	1	1
Notropis sp.	4	5	0	0	4	5
TOTAL	224	3420	0	0	224	3420

Gear : Small Trapnet
Date : 08/02/83
Station : IV

Time : Day

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	24	176	24	176
Black Crappie	0	0	2	3	2	3
Bluegill	0	0	49	26	49	26
Pumpkinseed	0	0	1	6	1	6
Rock Bass	0	0	2	1	2	1
Smallmouth Bass	0	0	2	14	2	14
TOTAL	0	0	80	226	80	226

Gear : Small Trapnet
Date : 08/02/83
Station : IV

Time : Night

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	6	28	6	28
White Sucker	0	0	1	1	1	1
Silver Redhorse	0	0	1	1580	1	1580
Black Crappie	0	0	18	24	18	24
Bluegill	0	0	72	31	72	31
Brown Bullhead	0	0	1	6	1	6
TOTAL	0	0	99	1669	99	1669

Gear : Small Trapnet
Date : 09/01/83
Station : IV

Time : Day

Species	OPEN		VEG. #		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Smallmouth Bass	84	1316	0	0	84	1316
Bluntnose Minnow	2	9	0	0	2	9
TOTAL	86	1325	0	0	86	1325

Gear : Small Trapnet
Date : 09/01/83
Station : IV

Time : Night

Species	OPEN		VEG. #		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	4	8	0	0	4	8
Northern Pike	1	0	0	0	1	0
White Sucker	2	1736	0	0	2	1736
Silver Redhorse	1	1360	0	0	1	1360
Black Crappie	13	27	0	0	13	27
Bluegill	11	9	0	0	11	9
Pumpkinseed	3	146	0	0	3	146
Rock Bass	5	645	0	0	5	645
Smallmouth Bass	1	7	0	0	1	7
Bluntnose Minnow	1	3	0	0	1	3
Spottail Shiner	2	2	0	0	2	2
Common Shiner	2	12	0	0	2	12
TOTAL	46	3955	0	0	46	3955

Gear : Small Trapnet
Date : 09/01/83
Station : IV

Time : Day

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	1	39	1	39
Smallmouth Bass	0	0	1	7	1	7
TOTAL	0	0	2	46	2	46

Gear : Small Tracnet
Date : 09/01/83
Station : IV

Time : Night

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Black Crappie	0	0	14	28	14	28
Bluegill	0	0	1	1	1	1
Gizzard Shad	0	0	1	4	1	4
TOTAL	0	0	16	33	16	33

Gear : Small Trapnet
Date : 10/04/83
Station : IV

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	1	54	1	54
White Sucker	2	1260	3	2902	5	4162
Trout-perch	1	1	0	0	1	1
Black Crappie	1	3	0	0	1	3
Bluegill	3	4	0	0	3	4
Pumpkinseed	0	0	1	9	1	9
Rock Bass	5	640	2	190	7	830
Brown Bullhead	0	0	1	128	1	128
Emerald Shiner	0	0	2	9	2	9
TOTAL	12	1907	10	3293	22	5199

Gear : Small Trapnet
Date : 10/05/83
Station : IV

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	1	25	1	25
White Sucker	2	1134	0	0	2	1134
Trout-perch	1	1	0	0	1	1
Black Crappie	1	6	1	5	2	11
Bluegill	4	3	0	0	4	3
Rock Bass	1	1	0	0	1	1
Mimic Shiner	0	0	1	1	1	1
TOTAL	9	1146	3	31	12	1177

Gear : Small Trapnet
Date : 11/01/83
Station : IV

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	4	1	400	2	404
Silver Lamprey	1	28	0	0	1	28
White Sucker	5	5980	8	7700	13	13680
Bluegill	2	2	1	1	3	2
Rock Bass	3	5	0	0	3	5
Brown Bullhead	1	320	38	4647	39	4967
Spottail Shiner	3	10	0	0	3	10
Mimic Shiner	1	1	0	0	1	1
Common Shiner	1	8	0	0	1	8
TOTAL	18	6357	48	12747	66	19105

Gear : Small Trapnet
Date : 11/02/83
Station : IV

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	3	122	3	122
White Sucker	0	0	1	940	1	940
Black Crappie	1	3	0	0	1	3
Pumpkinseed	1	2	0	0	1	2
Ninespine Stickleback	3	3	0	0	3	3
Brown Bullhead	0	0	1	162	1	162
Emerald Shiner	26	33	0	0	26	33
Spottail Shiner	1	1	0	0	1	1
TOTAL	32	41	5	1224	37	1265

Gear : Small Trapnet
Date : 05/03/83
Station : V

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	328	0	0	1	328
Northern Pike	15	15772	0	0	15	15772
Rainbow Smelt	15	60	0	0	15	60
White Sucker	2	1692	0	0	2	1692
Silver Redhorse	9	15160	0	0	9	15160
Trout-perch	1	11	0	0	1	11
Smallmouth Bass	1	990	0	0	1	990
Brown Bullhead	4	2096	0	0	4	2096
Emerald Shiner	2	0	0	0	2	0
Spottail Shiner	7	48	0	0	7	48
Mimic Shiner	10	14	0	0	10	14
TOTAL	67	36171	0	0	67	36171

Gear : Small Trapnet
Date : 05/03/83
Station : V

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	134	0	0	1	134
Northern Pike	9	9020	0	0	9	9020
Bowfin	2	5240	0	0	2	5240
Rainbow Smelt	5	62	0	0	5	62
White Sucker	5	3600	0	0	5	3600
Silver Redhorse	1	2120	0	0	1	2120
Trout-perch	4	25	0	0	4	25
Rock Bass	4	1630	0	0	4	1630
Smallmouth Bass	1	1060	0	0	1	1060
Brown Bullhead	15	6308	0	0	15	6308
Emerald Shiner	2	4	0	0	2	4
Spottail Shiner	4	16	0	0	4	16
TOTAL	53	29219	0	0	53	29219

Gear : Small Trapnet
Date : 05/03/83
Station : V

Time : Day

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Northern Pike	0	0	2	1870	2	1870
Rainbow Smelt	0	0	5	18	5	18
Silver Redhorse	0	0	2	3440	2	3440
Brown Bullhead	0	0	8	3580	8	3580
Emerald Shiner	0	0	9	35	9	35
Spottail Shiner	0	0	20	98	20	98
Mimic Shiner	0	0	5	10	5	10
TOTAL	0	0	51	9050	51	9050

Gear : Small Trapnet
Date : 05/03/83
Station : V

Time : Night

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Rainbow Smelt	0	0	1	10	1	10
White Sucker	0	0	3	2210	3	2210
Silver Redhorse	0	0	2	3460	2	3460
Trout-perch	0	0	4	24	4	24
Rock Bass	0	0	2	470	2	470
Brown Bullhead	0	0	5	2754	5	2754
Emerald Shiner	0	0	17	73	17	73
Spottail Shiner	0	0	1	2	1	2
Mimic Shiner	0	0	2	2	2	2
Golden Shiner	0	0	1	3	1	3
TOTAL	0	0	38	9007	38	9007

Gear : Small Trapnet
Date : 06/04/83
Station : V

Time : Day

Species	OPEN		VEG. *		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Rainbow Smelt	47	106	0	0	47	106
White Sucker	1	1080	0	0	1	1080
Silver Redhorse	3	4650	0	0	3	4650
Trout-perch	7	40	0	0	7	40
Rock Bass	1	1	0	0	1	1
Smallmouth Bass	1	1110	0	0	1	1110
Carp	3	8800	0	0	3	8800
Brassy Minnow	1	3	0	0	1	3
Bluntnose Minnow	2	4	0	0	2	4
Emerald Shiner	3	0	0	0	3	0
Spottail Shiner	17	47	0	0	17	47
Mimic Shiner	21	19	0	0	21	19
Common Shiner	1	3	0	0	1	3
TOTAL	108	15864	0	0	108	15864

Gear : Small Trapnet
Date : 06/04/83
Station : V

Time : Night

Species	OPEN		VEG. *		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	3240	0	0	1	3240
Rainbow Smelt	6	15	0	0	6	15
White Sucker	1	872	0	0	1	872
Silver Redhorse	9	10578	0	0	9	10578
Trout-perch	4	11	0	0	4	11
Pumpkinseed	2	354	0	0	2	354
Rock Bass	12	3039	0	0	12	3039
Brown Bullhead	12	5139	0	0	12	5139
Spottail Shiner	34	173	0	0	34	173
TOTAL	81	23421	0	0	81	23421

Gear : Small Trapnet
Date : 06/04/83
Station : V

Time : Day

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Rainbow Smelt	0	0	64	164	64	164
Ninespine Stickleback	0	0	1	3	1	3
Bluntnose Minnow	0	0	2	7	2	7
Emerald Shiner	0	0	1	1	1	1
Spottail Shiner	0	0	26	120	26	120
Mimic Shiner	0	0	123	62	123	62
Common Shiner	0	0	2	10	2	10
TOTAL	0	0	219	367	219	367

Gear : Small Trapnet
Date : 06/04/83
Station : V

Time : Night

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Rainbow Smelt	0	0	4	10	4	10
White Sucker	0	0	2	2108	2	2108
Brown Bullhead	0	0	12	4776	12	4776
Mottled Sculpin	0	0	1	3	1	3
Bluntnose Minnow	0	0	7	12	7	12
Spottail Shiner	0	0	38	88	38	88
Mimic Shiner	0	0	47	64	47	64
TOTAL	0	0	111	7061	111	7061

Gear : Small Trapnet
Date : 07/08/83
Station : V

Time : Day

Species	OPEN		VEG. #		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Logperch	3	11	0	0	3	11
Smallmouth Bass	2	963	0	0	2	963
Bluntnose Minnow	6	14	0	0	6	14
Emerald Shiner	3062	0	0	0	3062	0
Spottail Shiner	43	213	0	0	43	213
Mimic Shiner	2	3	0	0	2	3
TOTAL	3118	1203	0	0	3118	1203

Gear : Small Trapnet
Date : 07/08/83
Station : V

Time : Night

Species	OPEN		VEG. #		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Shorthead Redhorse	1	90	0	0	1	90
White Sucker	1	767	0	0	1	767
Trout-perch	11	53	0	0	11	53
Rock Bass	3	765	0	0	3	765
Brown Bullhead	4	1571	0	0	4	1571
Bluntnose Minnow	15	33	0	0	15	33
Emerald Shiner	366	1220	0	0	366	1220
Spottail Shiner	6	26	0	0	6	26
Mimic Shiner	1	1	0	0	1	1
TOTAL	408	4527	0	0	408	4527

Gear : Small Trapnet
Date : 07/08/83
Station : V

Time : Day

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Bluntnose Minnow	0	0	1	2	1	2
Spottail Shiner	0	0	1	4	1	4
TOTAL	0	0	2	5	2	5

Gear : Small Trapnet
Date : 07/08/83
Station : V

Time : Night

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Brown Bullhead	0	0	13	5232	13	5232
Emerald Shiner	0	0	13	45	13	45
Spottail Shiner	0	0	159	700	159	700
Mimic Shiner	0	0	1	1	1	1
TOTAL	0	0	186	5978	186	5978

Gear : Small Trapnet
Date : 08/02/83
Station : V

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	1	17	17	18	18
Northern Pike	1	1050	0	0	1	1050
White Sucker	0	0	1	1240	1	1240
Black Crappie	15	16	106	106	121	122
Bluegill	0	0	3	2	3	2
Rock Bass	2	61	8	4	10	65
Smallmouth Bass	3	564	0	0	3	564
Brown Bullhead	18	6970	6	2020	24	8990
Gizzard Shad	3	6	0	0	3	6
Bluntnose Minnow	5	10	3	4	8	14
Emerald Shiner	7	25	0	0	7	25
Spottail Shiner	0	0	7	32	7	32
Mimic Shiner	2	2	8	11	10	13
TOTAL	55	8705	161	3536	216	12241

Gear : Small Trapnet
Date : 08/03/83
Station : V

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	56	103	105	139	161	242
Black Crappie	101	131	175	208	276	339
Bluegill	29	17	33	17	62	34
Pumpkinseed	2	149	0	0	2	149
Rock Bass	6	8	16	8	22	16
Smallmouth Bass	24	1338	4	6	28	1344
Alewife	7	8	13	16	20	24
Gizzard Shad	413	990	3	4	416	994
Bluntnose Minnow	19	43	23	51	42	94
Emerald Shiner	30	83	4	12	34	94
Spottail Shiner	4	22	1	5	5	27
Mimic Shiner	44	80	14	28	58	108
Common Shiner	6	17	0	0	6	17
Golden Shiner	7	5	6	12	13	17
TOTAL	748	2993	397	505	1145	3498

Gear : Small Trapnet
Date : 09/07/83
Station : 9

Time : Day

Species	OPEN		VEG. #		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	9	23	0	0	9	23
White Sucker	5	1972	0	0	5	1972
Trout-perch	1	1	0	0	1	1
Black Crappie	2	3	0	0	2	3
Bluegill	53	41	0	0	53	41
Rock Bass	6	9	0	0	6	9
Smallmouth Bass	30	265	0	0	30	265
Gizzard Shad	2	1	0	0	2	1
Bluntnose Minnow	26	95	0	0	26	95
Emerald Shiner	27	90	0	0	27	90
Spottail Shiner	37	104	0	0	37	104
Mimic Shiner	9	14	0	0	9	14
Common Shiner	16	48	0	0	16	48
Golden Shiner	1	2	0	0	1	2
TOTAL	224	2667	0	0	224	2667

Gear : Small Trapnet
Date : 09/07/83
Station : V

Time : Night

Species	OPEN		VEG. #		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	3	84	0	0	3	84
Northern Pike	1	1800	0	0	1	1800
White Sucker	1	708	0	0	1	708
Silver Redhorse	2	2500	0	0	2	2500
Trout-perch	3	3	0	0	3	3
Black Crappie	6	12	0	0	6	12
Bluegill	17	12	0	0	17	12
Rock Bass	9	9	0	0	9	9
Smallmouth Bass	1	10	0	0	1	10
Brown Bullhead	7	1738	0	0	7	1738
Gizzard Shad	21	15	0	0	21	15
Bluntnose Minnow	3	9	0	0	3	9
Emerald Shiner	10	28	0	0	10	28
Spottail Shiner	7	13	0	0	7	13
Common Shiner	18	60	0	0	18	60
TOTAL	109	7000	0	0	109	7000

Gear : Small Trapnet
Date : 09/07/83
Station : V

Time : Day

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	17	320	17	320
Black Crappie	0	0	36	91	36	91
Bluegill	0	0	30	23	30	23
Rock Bass	0	0	2	2	2	2
Alewife	0	0	1	1	1	1
Gizzard Shad	0	0	48	24	48	24
Emerald Shiner	0	0	3	11	3	11
Spottail Shiner	0	0	147	178	147	178
Mimic Shiner	0	0	2	3	2	3
Common Shiner	0	0	1	0	1	0
Golden Shiner	0	0	9	22	9	22
TOTAL	0	0	296	676	296	676

Gear : Small Trapnet
Date : 09/07/83
Station : V

Time : Night

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	3	48	3	48
White Sucker	0	0	1	868	1	868
Black Crappie	0	0	30	47	30	47
Bluegill	0	0	13	19	13	19
Rock Bass	0	0	1	1	1	1
Brown Bullhead	0	0	2	359	2	359
Gizzard Shad	0	0	1	1	1	1
Spottail Shiner	0	0	3	4	3	4
Golden Shiner	0	0	4	6	4	6
TOTAL	0	0	58	1344	58	1344

Gear : Small Trapnet
Date : 10/02/83
Station : V

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
White Sucker	1	780	0	0	1	780
Black Crappie	17	35	184	290	201	325
Bluegill	7	6	2	3	9	9
Rock Bass	4	1302	3	1021	7	2323
Brown Bullhead	10	4430	1	380	11	4810
Gizzard Shad	3	1	4	6	7	7
Mottled Sculpin	1	1	0	0	1	1
Bluntnose Minnow	8	27	0	0	8	27
Emerald Shiner	4	11	0	0	4	11
Spottail Shiner	17	70	13	26	30	95
Mimic Shiner	9	12	0	0	9	12
Common Shiner	9	11	10	26	19	36
TOTAL	90	6686	217	1751	307	8437

Gear : Small Trapnet
Date : 10/03/83
Station : V

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	4	1	236	2	240
White Sucker	1	896	0	0	1	896
Black Crappie	8	16	25	45	33	61
Bluegill	62	56	2	3	64	59
Rock Bass	2	2	1	298	3	300
Smallmouth Bass	5	1106	0	0	5	1106
Blacknose Shiner	0	0	1	1	1	1
Emerald Shiner	8	21	1	2	9	23
Spottail Shiner	2	3	12	19	14	22
Misic Shiner	0	0	11	18	11	18
Cosmon Shiner	4	4	0	0	4	4
Golden Shiner	2	3	1	1	3	4
TOTAL	95	2111	55	622	150	2733

Gear : Small Trapnet
Date : 11/08/83
Station : V

Time : Day

Species	OPEN		VEG. #		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
White Sucker	1	649	0	0	1	649
Black Crappie	3	4	0	0	3	4
Bluegill	1	1	0	0	1	1
TOTAL	5	653	0	0	5	653

Gear : Small Trapnet
Date : 11/08/83
Station : V

Time : Night

Species	OPEN		VEG. #		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Burbot	1	1410	0	0	1	1410
White Sucker	1	640	0	0	1	640
Silver Redhorse	1	1880	0	0	1	1880
Black Crappie	1	6	0	0	1	6
Bluegill	1	1	0	0	1	1
Brown Bullhead	1	420	0	0	1	420
Mottled Sculpin	1	7	0	0	1	7
Bluntnose Minnow	5	12	0	0	5	12
Emerald Shiner	3	6	0	0	3	6
Spottail Shiner	1	2	0	0	1	2
TOTAL	16	4383	0	0	16	4383

Gear : Small Trapnet
Date : 11/08/83
Station : V

Time : Day

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Black Crappie	0	0	1	2	1	2
Rock Bass	0	0	1	1	1	1
Emerald Shiner	0	0	230	400	230	400
Spottail Shiner	0	0	12	13	12	13
Mimic Shiner	0	0	1	1	1	1
TOTAL	0	0	245	417	245	417

Gear : Small Trapnet
Date : 11/08/83
Station : V

Time : Night

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
White Sucker	0	0	3	2360	3	2360
Trout-perch	0	0	5	19	5	19
Bluegill	0	0	1	1	1	1
Rock Bass	0	0	1	1	1	1
Ninespine Stickleback	0	0	2	2	2	2
Brown Bullhead	0	0	17	3270	17	3270
Emerald Shiner	0	0	19	35	19	35
Spottail Shiner	0	0	8	14	8	14
Mimic Shiner	0	0	7	9	7	9
TOTAL	0	0	63	5712	63	5712

Gear : Small Trapnet
Date : 05/03/83
Station : VI

Time : Day

Species	OPEN		VEG. *		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Northern Pike	11	12010	0	0	11	12010
Rainbow Smelt	4	13	0	0	4	13
White Sucker	7	6146	0	0	7	6146
Silver Redhorse	3	3760	0	0	3	3760
Trout-perch	3	11	0	0	3	11
Rock Bass	1	58	0	0	1	58
Threespine Stickleback	1	2	0	0	1	2
Brown Bullhead	11	4438	0	0	11	4438
Misic Shiner	2	4	0	0	2	4
TOTAL	43	26441	0	0	43	26441

Gear : Small Trapnet
Date : 05/03/83
Station : VI

Time : Night

Species	OPEN		VEG. *		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	2	3300	0	0	2	3300
Northern Pike	15	19290	0	0	15	19290
Rainbow Smelt	2	3	0	0	2	3
White Sucker	7	5632	0	0	7	5632
Silver Redhorse	4	7100	0	0	4	7100
Trout-perch	16	114	0	0	16	114
Rock Bass	7	1791	0	0	7	1791
Brown Bullhead	31	12204	0	0	31	12204
TOTAL	84	49434	0	0	84	49434

Gear : Small Trapnet
Date : 05/03/83
Station : VI

Time : Day

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	1	8	1	8
Northern Pike	0	0	5	6400	5	6400
Muskellunge	0	0	1	2060	1	2060
Bowfin	0	0	1	3500	1	3500
Rainbow Smelt	0	0	8	26	8	26
White Sucker	0	0	3	2130	3	2130
Silver Redhorse	0	0	2	2880	2	2880
Trout-perch	0	0	3	18	3	18
Brown Bullhead	0	0	6	2204	6	2204
Emerald Shiner	0	0	22	62	22	62
Spottail Shiner	0	0	4	30	4	30
Mimic Shiner	0	0	4	9	4	9
TOTAL	0	0	60	19326	60	19326

Gear : Small Trapnet
Date : 05/03/83
Station : VI

Time : Night

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	1	460	1	460
Northern Pike	0	0	6	14480	6	14480
White Sucker	0	0	5	3534	5	3534
Silver Redhorse	0	0	1	2200	1	2200
Trout-perch	0	0	17	123	17	123
Pumpkinseed	0	0	1	84	1	84
Rock Bass	0	0	3	742	3	742
Smallmouth Bass	0	0	1	680	1	680
Brown Bullhead	0	0	8	2890	8	2890
Emerald Shiner	0	0	2	7	2	7
Spottail Shiner	0	0	2	12	2	12
Mimic Shiner	0	0	5	10	5	10
TOTAL	0	0	52	25222	52	25222

Gear : Small Trapnet
Date : 06/04/83
Station : V1

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	1	12	1	12
Yellow Perch	0	0	1	2	1	2
Rainbow Smelt	2	5	0	0	2	5
White Sucker	1	707	3	2654	4	3361
Silver Redhorse	1	1580	0	0	1	1580
Trout-perch	0	0	9	49	9	49
Rock Bass	12	2777	5	1329	17	4106
Brown Bullhead	7	2114	4	0	11	2114
Spottail Shiner	0	0	53	323	53	323
Mimic Shiner	10	12	0	0	10	12
Common Shiner	1	3	0	0	1	3
TOTAL	34	7200	76	4369	110	11569

Gear : Small Trapnet
Date : 06/05/83
Station : VI

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	3	260	3	260
Yellow Perch	6	22	8	16	14	38
Johnny Darter	0	0	1	2	1	2
Logperch	0	0	2	10	2	10
Rainbow Smelt	100	239	17	50	117	289
White Sucker	5	1535	1	526	6	2061
Trout-perch	4	25	64	342	68	367
Ninespine Stickleback	1	3	0	0	1	3
Threespine Stickleback	0	0	1	2	1	2
Brown Bullhead	1	380	0	0	1	380
Alewife	0	0	1	4	1	4
Mottled Sculpin	1	3	0	0	1	3
N. Redbelly Dace	1	2	0	0	1	2
Bluntnose Minnow	13	40	2	8	15	48
Emerald Shiner	10	35	5	19	15	54
Spottail Shiner	32	184	1010	6282	1042	6466
Mimic Shiner	514	781	48	69	562	850
Common Shiner	0	0	1	8	1	8
Sea Lamprey	1	146	0	0	1	146
TOTAL	689	3395	1164	7598	1853	10993

Gear : Small Trapnet
Date : 07/08/83
Station : VI

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	2	16	0	0	2	16
Yellow Perch	1	150	0	0	1	150
Northern Pike	1	1040	0	0	1	1040
White Sucker	8	1331	1	22	9	1353
Trout-perch	26	142	6	25	32	167
Rock Bass	3	850	0	0	3	850
Brown Bullhead	4	1541	0	0	4	1541
Bluntnose Minnow	5	10	5	9	10	19
Emerald Shiner	741	3060	32	91	773	3151
Spottail Shiner	27	153	26	107	53	260
Mimic Shiner	0	0	1	1	1	1
TOTAL	818	8294	71	256	889	8549

Gear : Small Trapnet
Date : 07/09/83
Station : VI

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	7	0	0	1	7
Yellow Perch	8	0	0	0	8	0
Logperch	1	3	0	0	1	3
White Sucker	1	3	0	0	1	3
Trout-perch	5	13	0	0	5	13
Smallmouth Bass	1	24	0	0	1	24
Bluntnose Minnow	60	149	13	27	73	176
Emerald Shiner	1715	7209	31	100	1746	7309
Spottail Shiner	422	2023	40	173	462	2196
Mimic Shiner	217	370	115	165	332	536
Common Shiner	8	22	1	4	9	26
Golden Shiner	2	7	0	0	2	7
TOTAL	2441	9830	200	469	2641	10300

Gear : Small Trapnet
Date : 08/02/83
Station : VI

Time : Day

Species	OPEN		VES. 1		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	20	0	0	1	20
Yellow Perch	4	7	0	0	4	7
Rainbow Smelt	1	11	0	0	1	11
Silver Redhorse	1	1260	0	0	1	1260
Trout-perch	2	4	0	0	2	4
Black Crappie	429	630	0	0	429	630
Bluegill	3	3	0	0	3	3
Rock Bass	1	1	0	0	1	1
Smallmouth Bass	2	5	0	0	2	5
Alewife	9	28	0	0	9	28
Gizzard Shad	121	332	0	0	121	332
Bluntnose Minnow	15	46	0	0	15	46
Emerald Shiner	20	56	0	0	20	56
Spottail Shiner	15	46	0	0	15	46
Mimic Shiner	261	400	0	0	261	400
Common Shiner	1	2	0	0	1	2
TOTAL	886	2851	0	0	886	2851

Gear : Small Trapnet
Date : 08/02/83
Station : VI

Time : Night

Species	OPEN		VEG. #		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	0	0	0	1	0
Trout-perch	6	0	0	0	6	0
Black Crappie	29	28	0	0	29	28
Bluegill	3	1	0	0	3	1
Smallmouth Bass	1	0	0	0	1	0
Brown Bullhead	2	1100	0	0	2	1100
Alewife	1	0	0	0	1	0
Gizzard Shad	4	8	0	0	4	8
Bluntnose Minnow	6	8	0	0	6	8
Emerald Shiner	72	247	0	0	72	247
Spottail Shiner	13	75	0	0	13	75
Mimic Shiner	24	32	0	0	24	32
Common Shiner	1	3	0	0	1	3
TOTAL	163	1502	0	0	163	1502

Gear : Small Trapnet
Date : 08/02/83
Station : VI

Time : Day

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	1	2	1	2
Black Crappie	0	0	77	106	77	106
Bluegill	0	0	4	3	4	3
Smallmouth Bass	0	0	2	4	2	4
Alewife	0	0	2	2	2	2
Gizzard Shad	0	0	4	12	4	12
Bluntnose Minnow	0	0	2	6	2	6
Emerald Shiner	0	0	1	1	1	1
Spottail Shiner	0	0	1	1	1	1
Mimic Shiner	0	0	2	4	2	4
TOTAL	0	0	96	142	96	142

Gear : Small Trapnet
Date : 08/02/83
Station : VI

Time : Night

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
White Sucker	0	0	2	1492	2	1492
Black Crappie	0	0	80	194	80	194
Bluegill	0	0	1	0	1	0
Smallmouth Bass	0	0	1	1	1	1
Brown Bullhead	0	0	1	330	1	330
Gizzard Shad	0	0	63	140	63	140
Emerald Shiner	0	0	5	15	5	15
Mimic Shiner	0	0	9	9	9	9
TOTAL	0	0	162	2182	162	2182

Gear : Small Trapnet
Date : 09/07/83
Station : VI

Time : Day

Species	OPEN		VEG. #		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	2	6	0	0	2	6
White Sucker	3	1293	0	0	3	1293
Lake Herring	1	0	0	0	1	0
Trout-perch	1	1	0	0	1	1
Black Crappie	9	22	0	0	9	22
Bluegill	53	45	0	0	53	45
Rock Bass	5	7	0	0	5	7
Alewife	3	4	0	0	3	4
Gizzard Shad	584	444	0	0	584	444
Emerald Shiner	59	176	0	0	59	176
Spottail Shiner	57	69	0	0	57	69
Mimic Shiner	22	30	0	0	22	30
Common Shiner	1	3	0	0	1	3
TOTAL	800	2099	0	0	800	2099

Gear : Small Trapnet
Date : 09/07/83
Station : VI

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	2	0	0	1	2
White Sucker	2	973	0	0	2	973
Trout-perch	13	12	0	0	13	12
Black Crappie	10	25	0	0	10	25
Bluegill	11	7	0	0	11	7
Rock Bass	2	2	0	0	2	2
Brown Bullhead	2	433	0	0	2	433
Gizzard Shad	6	4	0	0	6	4
Carp	1	1	0	0	1	1
Bluntnose Minnow	1	2	0	0	1	2
Emerald Shiner	30	103	0	0	30	103
Spottail Shiner	21	36	0	0	21	36
Mimic Shiner	2	3	0	0	2	3
TOTAL	102	1603	0	0	102	1603

Gear : Small Trapnet
Date : 09/07/83
Station : VI

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Trout-perch	0	0	1	1	1	1
Black Crappie	0	0	10	32	10	32
Bluegill	0	0	9	7	9	7
Smallmouth Bass	0	0	1	900	1	900
Alewife	0	0	20	14	20	14
Gizzard Shad	0	0	1511	1284	1511	1284
Bluntnose Minnow	0	0	4	15	4	15
Emerald Shiner	0	0	14	44	14	44
Spottail Shiner	0	0	23	70	23	70
Mimic Shiner	0	0	1	1	1	1
Common Shiner	0	0	3	6	3	6
Golden Shiner	0	0	2	12	2	12
TOTAL	0	0	1599	2346	1599	2346

Gear : Small Trapnet
Date : 09/07/83
Station : VI

Time : Night

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	1	3	1	3
White Sucker	0	0	1	807	1	807
Trout-perch	0	0	3	3	3	3
Black Crappie	0	0	40	77	40	77
Bluegill	0	0	7	5	7	5
Rock Bass	0	0	3	5	3	5
Gizzard Shad	0	0	230	155	230	155
Bluntnose Minnow	0	0	3	6	3	6
Emerald Shiner	0	0	9	24	9	24
Spottail Shiner	0	0	36	47	36	47
Mimic Shiner	0	0	3	4	3	4
TOTAL	0	0	336	1135	336	1135

Gear : Small Trapnet
Date : 10/02/83
Station : VI

Time : Night

Species	OPEN		VEG. #		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Logperch	3	20	0	0	3	20
White Sucker	2	1730	0	0	2	1730
Trout-perch	1	1	0	0	1	1
Black Crappie	9	24	0	0	9	24
Bluegill	4	6	0	0	4	6
Pumpkinseed	1	4	0	0	1	4
Rock Bass	21	35	0	0	21	35
Brown Bullhead	4	1330	0	0	4	1330
Gizzard Shad	2	3	0	0	2	3
Bluntnose Minnow	1	2	0	0	1	2
Emerald Shiner	8	27	0	0	8	27
Spottail Shiner	61	278	0	0	61	278
Mimic Shiner	9	14	0	0	9	14
Golden Shiner	18	21	0	0	18	21
TOTAL	144	3494	0	0	144	3494

Gear : Small Trapnet
Date : 10/02/83
Station : VI

Time : Day

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Black Crappie	0	0	2	5	2	5
Bluegill	0	0	2	2	2	2
Rock Bass	0	0	6	10	6	10
Spottail Shiner	0	0	4	6	4	6
Mimic Shiner	0	0	9	12	9	12
TOTAL	0	0	23	35	23	35

Gear : Small Trapnet
Date : 10/02/83
Station : VI

Time : Night

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Black Crappie	0	0	13	25	13	25
Bluegill	0	0	10	9	10	9
Rock Bass	0	0	8	23	8	23
Gizzard Shad	0	0	15	16	15	16
Spottail Shiner	0	0	16	23	16	23
Golden Shiner	0	0	9	10	9	10
TOTAL	0	0	71	107	71	107

Gear : Small Trapnet
Date : 10/03/83
Station : VI

Time : Day

Species	OPEN		VEG. #		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	4	13	0	0	4	13
Logperch	7	34	0	0	7	34
Trout-perch	2	5	0	0	2	5
Black Crappie	15	32	0	0	15	32
Bluegill	136	212	0	0	136	212
Pumpkinseed	36	71	0	0	36	71
Rock Bass	101	154	0	0	101	154
Smallmouth Bass	3	17	0	0	3	17
Gizzard Shad	1	1	0	0	1	1
Bluntnose Minnow	1	4	0	0	1	4
Emerald Shiner	4	14	0	0	4	14
Spottail Shiner	29	40	0	0	29	40
Mimic Shiner	164	206	0	0	164	206
Common Shiner	94	119	0	0	94	119
Golden Shiner	5	6	0	0	5	6
TOTAL	652	927	0	0	652	927

Gear : Small Trapnet
Date : 11/08/83
Station : VI

Time : Day

Species	OPEN		VEG. #		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Black Crappie	45	115	0	0	45	115
Bluegill	3	2	0	0	3	2
Rock Bass	2	3	0	0	2	3
Ninespine Stickleback	1	1	0	0	1	1
Gizzard Shad	2	4	0	0	2	4
Bluntnose Minnow	1	2	0	0	1	2
Emerald Shiner	82	124	0	0	82	124
Mimic Shiner	1	2	0	0	1	2
TOTAL	137	253	0	0	137	253

Gear : Small Trapnet
Date : 11/08/83
Station : VI

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	464	0	0	1	464
Burbot	3	3782	0	0	3	3782
White Sucker	8	5895	0	0	8	5895
Trout-perch	3	4	0	0	3	4
Black Crappie	9	42	0	0	9	42
Rock Bass	1	1	0	0	1	1
Brown Bullhead	2	298	0	0	2	298
Bluntnose Minnow	2	4	0	0	2	4
Emerald Shiner	4	11	0	0	4	11
Mimic Shiner	1	2	0	0	1	2
TOTAL	34	10502	0	0	34	10502

Gear : Small Trapnet
Date : 11/08/83
Station : VI

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	1	2	1	2
Black Crappie	0	0	13	46	13	46
Emerald Shiner	0	0	44	84	44	84
Spottail Shiner	0	0	1	1	1	1
TOTAL	0	0	59	133	59	133

Gear : Small Trapnet
Date : 11/08/83
Station : V1

Time : Night

Species	OPEN W		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Northern Pike	0	0	1	0	1	0
Shorthead Redhorse	0	0	1	228	1	228
White Sucker	0	0	2	7	2	7
Trout-perch	0	0	12	31	12	31
Black Crappie	0	0	12	50	12	50
Bluegill	0	0	3	3	3	3
Rock Bass	0	0	6	5	6	5
Bluntnose Minnow	0	0	3	9	3	9
Emerald Shiner	0	0	56	126	56	126
Spottail Shiner	0	0	9	28	9	28
Mimic Shiner	0	0	1	1	1	1
TOTAL	0	0	106	486	106	486

Gear : Small Trapnet
Date : 05/04/83
Station : VII

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Rainbow Smelt	32	161	0	0	32	161
White Sucker	1	1	0	0	1	1
Silver Redhorse	1	1320	0	0	1	1320
Rock Bass	1	1	0	0	1	1
Smallmouth Bass	1	1240	0	0	1	1240
Bluntnose Minnow	3	6	0	0	3	6
Emerald Shiner	125	282	0	0	125	282
Spottail Shiner	59	151	0	0	59	151
Mimic Shiner	16	29	0	0	16	29
Common Shiner	1	3	0	0	1	3
Golden Shiner	2	4	0	0	2	4
TOTAL	242	3197	0	0	242	3197

Gear : Small Trapnet
Date : 05/04/83
Station : VII

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	2	6	0	0	2	6
Northern Pike	8	9310	0	0	8	9310
Bowfin	2	5950	0	0	2	5950
Rainbow Smelt	2	36	0	0	2	36
White Sucker	3	2206	0	0	3	2206
Trout-perch	15	99	0	0	15	99
Rock Bass	2	2	0	0	2	2
Brown Bullhead	1	4	0	0	1	4
Mottled Sculpin	2	10	0	0	2	10
Bluntnose Minnow	5	21	0	0	5	21
Emerald Shiner	2	8	0	0	2	8
Spottail Shiner	1	2	0	0	1	2
TOTAL	45	17653	0	0	45	17653

Gear : Small Trapnet
Date : 05/04/83
Station : VII

Time : Day

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Rainbow Smelt	0	0	44	329	44	329
White Sucker	0	0	1	464	1	464
Threespine Stickleback	0	0	1	2	1	2
Brown Bullhead	0	0	2	1066	2	1066
Bluntnose Minnow	0	0	8	18	8	18
Emerald Shiner	0	0	631	1640	631	1640
Spottail Shiner	0	0	33	187	33	187
Mimic Shiner	0	0	16	22	16	22
Common Shiner	0	0	4	15	4	15
Golden Shiner	0	0	2	13	2	13
TOTAL	0	0	742	3756	742	3756

Gear : Small Trapnet
Date : 05/04/83
Station : VII

Time : Night

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	1	11	1	11
Northern Pike	0	0	6	11760	6	11760
Bowfin	0	0	1	2240	1	2240
Rainbow Smelt	0	0	17	293	17	293
White Sucker	0	0	3	2290	3	2290
Rock Bass	0	0	2	15	2	15
Brown Bullhead	0	0	4	1686	4	1686
Mottled Sculpin	0	0	1	6	1	6
Bluntnose Minnow	0	0	3	16	3	16
Emerald Shiner	0	0	8	34	8	34
TOTAL	0	0	46	18351	46	18351

Gear : Small Trapnet
Date : 06/05/83
Station : VII

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	2	1200	2	1200
Yellow Perch	0	0	4	14	4	14
Logperch	1	4	3	20	4	24
Northern Pike	1	3550	2	6120	3	9670
Rainbow Smelt	7	16	46	105	53	121
Silver Redhorse	1	1850	4	5910	5	7760
Trout-perch	4	27	0	0	4	27
Rock Bass	7	1040	17	3772	24	4812
Smallmouth Bass	0	0	2	1340	2	1340
Brown Bullhead	0	0	44	17820	44	17820
Bluntnose Minnow	1	4	54	123	55	127
Emerald Shiner	0	0	1	3	1	3
Spottail Shiner	0	0	25	48	25	48
Mimic Shiner	1	2	33	72	34	74
Common Shiner	1	4	6	26	7	30
TOTAL	24	6497	243	36573	267	43070

Gear : Small Trapnet
Date : 06/06/80
Station : VII

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	5	51	5	51
Yellow Perch	2	2	136	400	138	402
Logperch	0	0	4	15	4	15
Northern Pike	0	0	3	6257	3	6257
Bowfin	0	0	1	3850	1	3850
Rainbow Smelt	136	306	1240	2780	1376	3086
White Sucker	0	0	7	1791	7	1791
Silver Redhorse	0	0	2	2700	2	2700
Trout-perch	3	11	1	2	4	12
Pumpkinseed	0	0	1	148	1	148
Rock Bass	0	0	2	2	2	2
Ninespine Stickleback	2	4	7	18	9	22
Threespine Stickleback	1	2	1	2	2	4
Brown Bullhead	0	0	11	5012	11	5012
Alewife	1	8	12	50	13	58
Bluntnose Minnow	4	8	207	508	211	516
Emerald Shiner	98	280	85	229	183	509
Spottail Shiner	23	112	1950	8180	1973	8292
Mimic Shiner	7	14	359	540	366	554
Common Shiner	2	9	8	26	10	35
TOTAL	279	756	4043	32560	4322	33315

Gear : Small Trapnet
Date : 07/09/83
Station : VII

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	12	0	0	1	12
Yellow Perch	1	18	0	0	1	18
Logperch	1	4	0	0	1	4
Bowfin	0	0	1	3700	1	3700
White Sucker	2	1654	0	0	2	1654
Silver Redhorse	4	7420	2	3620	6	11040
Trout-perch	6	34	0	0	6	34
Rock Bass	2	330	1	50	3	380
Brown Bullhead	2	730	17	5090	19	5820
Alewife	2	10	0	0	2	10
Bluntnose Minnow	6	22	1	3	7	24
Emerald Shiner	14	60	1	2	15	62
Spottail Shiner	13	72	10	26	23	98
Mimic Shiner	12	22	0	0	12	22
TOTAL	66	10387	33	12490	99	22877

Gear : Small Trapnet
Date : 07/10/83
Station : VII

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	3	56	0	0	3	56
Logperch	0	0	1	2	1	2
Bluntnose Minnow	8	17	20	42	28	60
Emerald Shiner	7	29	0	0	7	29
Spottail Shiner	10	28	15	17	25	45
Mimic Shiner	43	60	2	2	45	62
Common Shiner	0	0	7	11	7	11
Golden Shiner	0	0	16	21	16	21
TOTAL	71	190	61	95	132	286

Gear : Small Trapnet
Date : 08/01/83
Station : VII

Time : Day

Species	OPEN		VEG. *		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	4	0	0	0	4	0
Logperch	2	0	0	0	2	0
White Sucker	1	44	0	0	1	44
Black Crappie	8	11	0	0	8	11
Bluegill	20	16	0	0	20	16
Smallmouth Bass	156	0	0	0	156	0
Gizzard Shad	2	7	0	0	2	7
Banded Killifish	1	0	0	0	1	0
Bluntnose Minnow	103	230	0	0	103	230
Emerald Shiner	47	120	0	0	47	120
Spottail Shiner	3	7	0	0	3	7
Mimic Shiner	70	104	0	0	70	104
Common Shiner	4	13	0	0	4	13
TOTAL	421	552	0	0	421	552

Gear : Small Trapnet
Date : 09/01/83
Station : VII

Time : Night

Species	OPEN		VEG. *		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	26	0	0	1	26
Yellow Perch	2	300	0	0	2	300
Black Crappie	12	18	0	0	12	18
Bluegill	11	6	0	0	11	6
Smallmouth Bass	12	12	0	0	12	12
Gizzard Shad	1	3	0	0	1	3
Bluntnose Minnow	55	94	0	0	55	94
Emerald Shiner	2	7	0	0	2	7
Mimic Shiner	18	24	0	0	18	24
Common Shiner	16	42	0	0	16	42
Golden Shiner	2	10	0	0	2	10
TOTAL	132	542	0	0	132	542

Gear : Small Trapnet
Date : 08/01/83
Station : VII

Time : Day

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	17	12	17	12
Black Crappie	0	0	57	68	57	68
Bluegill	0	0	14	9	14	9
Rock Bass	0	0	11	7	11	7
Smallmouth Bass	0	0	14	18	14	18
Gizzard Shad	0	0	1	2	1	2
Bluntnose Minnow	0	0	71	138	71	138
Emerald Shiner	0	0	1	2	1	2
Spottail Shiner	0	0	18	30	18	30
Mimic Shiner	0	0	19	14	19	14
Common Shiner	0	0	21	34	21	34
Golden Shiner	0	0	3	8	3	8
TOTAL	0	0	247	342	247	342

Gear : Small Trapnet
Date : 08/01/83
Station : VII

Time : Night

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	1	2	1	2
Black Crappie	0	0	15	17	15	17
Bluegill	0	0	28	14	28	14
Rock Bass	0	0	1	1	1	1
Smallmouth Bass	0	0	1	2	1	2
Brown Bullhead	0	0	1	158	1	158
Gizzard Shad	0	0	8	20	8	20
Blacknose Shiner	0	0	1	1	1	1
Bluntnose Minnow	0	0	2	7	2	7
Mimic Shiner	0	0	1	1	1	1
Common Shiner	0	0	8	15	8	15
Golden Shiner	0	0	11	42	11	42
TOTAL	0	0	78	279	78	279

Gear : Small Trapnet
Date : 07/08/83
Station : VII

Time : Day

Species	OPEN		VEG. #		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	99	0	0	1	99
White Sucker	1	588	0	0	1	588
Black Crappie	1	2	0	0	1	2
Bluegill	20	26	0	0	20	26
Alewife	2	1	0	0	2	1
Bluntnose Minnow	12	13	0	0	12	13
Emerald Shiner	48	142	0	0	48	142
Spottail Shiner	2	3	0	0	2	3
Mimic Shiner	2	3	0	0	2	3
Common Shiner	8	24	0	0	8	24
Golden Shiner	2	4	0	0	2	4
TOTAL	99	906	0	0	99	906

Gear : Small Trapnet
Date : 07/08/83
Station : VII

Time : Night

Species	OPEN		VEG. #		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Northern Pike	1	1360	0	0	1	1360
White Sucker	4	2158	0	0	4	2158
Trout-perch	3	2	0	0	3	2
Black Crappie	6	13	0	0	6	13
Bluegill	3	3	0	0	3	3
Rock Bass	4	453	0	0	4	453
Alewife	1	2	0	0	1	2
Gizzard Shad	28	40	0	0	28	40
Carp	1	3	0	0	1	3
Bluntnose Minnow	9	18	0	0	9	18
Emerald Shiner	7	21	0	0	7	21
Spottail Shiner	4	5	0	0	4	5
Mimic Shiner	17	20	0	0	17	20
Common Shiner	5	20	0	0	5	20
Golden Shiner	3	11	0	0	3	11
TOTAL	96	4130	0	0	96	4130

Gear : Small Trapnet
Date : 09/08/83
Station : VII

Time : Day

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	8	252	8	252
White Sucker	0	0	3	1720	3	1720
Black Crappie	0	0	53	212	53	212
Bluegill	0	0	44	54	44	54
Pumpkinseed	0	0	5	168	5	168
Rock Bass	0	0	6	18	6	18
Smallmouth Bass	0	0	5	31	5	31
Brown Bullhead	0	0	6	156	6	156
Alewife	0	0	19	24	19	24
Gizzard Shad	0	0	11	11	11	11
Blacknose Shiner	0	0	1	2	1	2
Bluntnose Minnow	0	0	1	5	1	5
Emerald Shiner	0	0	7	16	7	16
Spottail Shiner	0	0	6	9	6	9
Mimic Shiner	0	0	1	2	1	2
Common Shiner	0	0	6	14	6	14
Golden Shiner	0	0	22	46	22	46
TOTAL	0	0	204	2739	204	2739

Gear : Small Trapnet
Date : 09/08/83
Station : VII

Time : Night

Species	OPEN #		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	1	2160	1	2160
Black Crappie	0	0	6	22	6	22
Bluegill	0	0	2	2	2	2
Pumpkinseed	0	0	1	50	1	50
Rock Bass	0	0	3	199	3	199
Brown Bullhead	0	0	16	4295	16	4295
Gizzard Shad	0	0	1	1	1	1
Golden Shiner	0	0	1	3	1	3
TOTAL	0	0	31	6732	31	6732

Gear : Small Trapnet
Date : 10/03/83
Station : VII

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Trout-perch	1	1	2	3	3	4
Black Crappie	0	0	31	102	31	102
Rock Bass	0	0	2	4	2	4
Alewife	0	0	1	1	1	1
Gizzard Shad	1	1	11	10	12	11
Mottled Sculpin	1	1	0	0	1	1
Carp	0	0	1	7	1	7
Bluntnose Minnow	10	17	0	0	10	17
Spottail Shiner	1	1	0	0	1	1
Mimic Shiner	3	4	0	0	3	4
Common Shiner	5	9	0	0	5	9
Golden Shiner	0	0	1	1	1	1
TOTAL	22	33	49	128	71	161

Gear : Small Trapnet
Date : 10/04/83
Station : VII

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Logperch	1	2	0	0	1	2
White Sucker	1	432	0	0	1	432
Black Crappie	1	2	2	6	3	9
Bluegill	55	47	32	36	87	83
Rock Bass	2	4	1	2	3	5
Brown Bullhead	0	0	1	16	1	16
Bluntnose Minnow	46	70	1	3	47	73
Mimic Shiner	1	2	0	0	1	2
Golden Shiner	0	0	1	1	1	1
TOTAL	107	558	38	64	145	622

Gear : Small Trapnet
Date : 11/09/83
Station : VII

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Black Crappie	5	13	0	0	5	13
Bluegill	3	3	0	0	3	3
Bluntnose Minnow	1	2	0	0	1	2
TOTAL	9	18	0	0	9	18

Gear : Small Trapnet
Date : 11/08/83
Station : VII

Time : Night

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
White Sucker	2	2540	0	0	2	2540
Black Crappie	6	25	0	0	6	25
Bluegill	10	12	0	0	10	12
Rock Bass	1	1	0	0	1	1
Brown Bullhead	16	174	0	0	16	174
Bluntnose Minnow	1	3	0	0	1	3
Spottail Shiner	1	2	0	0	1	2
TOTAL	37	2758	0	0	37	2758

Gear : Small Trapnet
Date : 11/08/83
Station : VII

Time : Day

Species	OPEN		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
White Sucker	0	0	1	1130	1	1130
Bluegill	0	0	1	1	1	1
TOTAL	0	0	2	1131	2	1131

Gear : Small Trapnet
Date : 11/08/83
Station : VII

Time : Night

Species	OPEN *		VEG.		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
White Sucker	0	0	5	2379	5	2379
Trout-perch	0	0	9	19	9	19
Black Crappie	0	0	5	13	5	13
Bluegill	0	0	3	3	3	3
Rock Bass	0	0	1	2	1	2
Brown Bullhead	0	0	14	652	14	652
Bluntnose Minnow	0	0	17	44	17	44
Emerald Shiner	0	0	17	44	17	44
Spottail Shiner	0	0	1	2	1	2
Common Shiner	0	0	1	7	1	7
TOTAL	0	0	73	3164	73	3164

Appendix M. Catch records of fish collected with trawls in the St. Marys River during 1982 and 1983.

Gear : Trawl
Date : 06/23/82
Station : I

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Johnny Darter	53	25	13	5	66	31
Logperch	1	1	0	0	1	1
White Sucker	6	4978	2	2430	8	7408
Lake Whitefish	1	26	0	0	1	26
Round Whitefish	1	26	1	16	2	42
Trout-perch	5	41	1	6	6	47
Ninespine Stickleback	150	259	69	123	219	382
Brook Stickleback	3	2	3	3	6	5
Mottled Sculpin	25	38	8	17	33	55
Spottail Shiner	1	5	0	0	1	5
TOTAL	246	5401	97	2600	343	8001

Gear : Trawl
Date : 07/20/82
Station : I

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	4	739	4	739
Johnny Darter	158	72	134	71	292	143
Iowa Darter	1	1	3	4	4	4
Northern Pike	1	0	1	0	2	1
Rainbow Smelt	0	0	4	8	4	8
White Sucker	3	2100	1	700	4	2800
Trout-perch	1	5	1	9	2	13
Ninespine Stickleback	65	101	107	210	172	310
Brook Stickleback	19	18	29	29	48	47
Mottled Sculpin	110	218	43	91	153	308
TOTAL	358	2514	327	1860	685	4375

Gear : Trawl
Date : 08/18/82
Station : I

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	2	1	3	94	5	95
Johnny Darter	146	61	429	120	575	182
Iowa Darter	0	0	2	2	2	2
Northern Pike	4	33	1	6	5	39
Burbot	0	0	1	1	1	1
Rainbow Smelt	1	0	1	0	2	0
White Sucker	1	19	1	812	2	831
Ninespine Stickleback	494	234	234	120	728	354
Brook Stickleback	9	11	0	0	9	11
Mottled Sculpin	32	51	25	24	57	75
Spottail Shiner	1	5	0	0	1	5
TOTAL	690	417	697	1179	1387	1596

Gear : Trawl
Date : 09/21/82
Station : I

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	10	368	43	56	53	423
Johnny Darter	62	48	68	51	130	99
Iowa Darter	1	1	0	0	1	1
Northern Pike	1	24	0	0	1	24
Rainbow Smelt	0	0	1	0	1	0
White Sucker	3	923	1	660	4	1583
Lake Whitefish	2	165	2	97	4	262
Round Whitefish	1	268	0	0	1	268
Ninespine Stickleback	7	3	10	6	17	9
Brook Stickleback	0	0	3	1	3	1
Mottled Sculpin	36	33	40	36	76	69
TOTAL	123	1833	168	907	291	2740

Gear : Trawl
Date : 10/25/82
Station : I

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	1	4	14	5	15
Johnny Darter	10	3	9	6	19	9
Rainbow Smelt	6	5	3	2	9	6
White Sucker	0	0	2	2	2	2
Ninespine Stickleback	1	0	3	2	4	2
Brook Stickleback	2	2	2	2	4	3
Mottled Sculpin	4	2	6	3	10	5
Spottail Shiner	0	0	1	0	1	0
TOTAL	24	12	30	30	54	42

Gear : Trawl
Date : 11/17/82
Station : I

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Johnny Darter	12	7	4	1	16	8
Brook Stickleback	2	1	1	1	3	1
Mottled Sculpin	6	5	5	5	11	9
TOTAL	20	13	10	6	30	19

Gear : Trawl
Date : 06/21/82
Station : II

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	4	0	0	1	4
Johnny Darter	1	0	0	0	1	0
Logperch	3	11	0	0	3	11
White Sucker	3	2640	3	2990	6	5630
Trout-perch	86	611	155	1088	241	1699
Ninespine Stickleback	17	22	16	27	33	49
Brook Stickleback	2	3	0	0	2	3
Mottled Sculpin	10	25	0	0	10	25
Slimy Sculpin	0	0	1	3	1	3
Spottail Shiner	1	6	1	5	2	11
Mimic Shiner	6	9	1	1	7	10
TOTAL	130	3331	177	4114	307	7445

Gear : Trawl
Date : 07/22/82
Station : II

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	3	56	3	56
Johnny Darter	1	3	16	35	17	38
Logperch	12	99	30	161	42	260
Rainbow Smelt	1	5	0	0	1	5
White Sucker	1	960	5	195	6	1155
Trout-perch	36	238	49	229	85	467
Ninespine Stickleback	2	4	0	0	2	4
Mottled Sculpin	15	58	6	29	21	87
Spottail Shiner	0	0	34	229	34	229
Mimic Shiner	1	2	1	2	2	4
TOTAL	69	1369	144	935	213	2304

Gear : Trawl
Date : 08/10/82
Station : II

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	1	300	1	300
Yellow Perch	9	346	4	42	13	388
Johnny Darter	28	47	26	33	54	81
Iowa Darter	2	3	0	0	2	3
Logperch	56	172	40	218	96	390
Northern Pike	0	0	1	240	1	240
Unknown Percid	0	0	6	1	6	1
Rainbow Smelt	0	0	3	1	3	1
White Sucker	2	921	11	2143	13	3064
Trout-perch	55	332	2	9	57	341
Unknown Centrarchid	0	0	1	0	1	0
Rock Bass	1	220	9	4	10	224
Ninespine Stickleback	2	0	0	0	2	0
Mottled Sculpin	15	64	10	54	25	118
Carp	0	0	1	2	1	2
Spottail Shiner	0	0	15	100	15	100
Mimic Shiner	0	0	24	43	24	43
TOTAL	170	2106	154	3191	324	5296

Gear : Trawl
Date : 09/20/82
Station : II

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	22	0	0	1	22
Johnny Darter	9	16	0	0	9	16
Iowa Darter	2	2	0	0	2	2
White Sucker	2	1500	7	2859	9	4359
Rock Bass	2	1	2	2	4	3
Smallmouth Bass	1	4	0	0	1	4
Mottled Sculpin	5	32	0	0	5	32
TOTAL	22	1577	9	2861	31	4438

Gear : Trawl
Date : 10/11/82
Station : II

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Johnny Darter	8	15	17	34	25	49
Iowa Darter	1	1	0	0	1	1
White Sucker	3	677	5	856	8	1533
Silver Redhorse	0	0	2	754	2	754
Trout-perch	1	2	0	0	1	2
Rock Bass	10	11	0	0	10	11
Ninespine Stickleback	1	1	0	0	1	1
Brook Stickleback	1	1	0	0	1	1
Brown Bullhead	1	561	0	0	1	561
Mottled Sculpin	26	175	23	47	49	222
Emerald Shiner	1	4	0	0	1	4
Mimic Shiner	0	0	3	6	3	6
TOTAL	53	1448	50	1697	103	3145

Gear : Trawl
Date : 11/01/82
Station : II

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	8	2	21	3	29
Johnny Darter	3	5	5	3	8	9
Iowa Darter	0	0	2	2	2	2
Logperch	0	0	1	3	1	3
White Sucker	0	0	3	607	3	607
Lake Herring	0	0	1	629	1	629
Rock Bass	12	15	2	2	14	17
Ninespine Stickleback	2	2	2	2	4	4
Brook Stickleback	6	4	0	0	6	4
Mottled Sculpin	13	49	14	51	27	100
Bluntnose Minnow	0	0	1	2	1	2
Spottail Shiner	0	0	2	8	2	8
Mimic Shiner	2	3	0	0	2	3
Common Shiner	0	0	2	3	2	3
TOTAL	39	86	37	1324	76	1410

Gear : Trawl
Date : 06/23/82
Station : III

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	1	620	1	620
Yellow Perch	1	8	1	9	2	17
Johnny Darter	12	5	8	4	20	9
Iowa Darter	2	2	14	8	16	10
Logperch	8	35	2	10	10	44
Rainbow Smelt	20	221	21	222	41	443
White Sucker	2	682	1	700	3	1382
Trout-perch	17	141	27	216	44	356
Ninespine Stickleback	65	121	34	54	99	175
Brook Stickleback	35	32	23	22	58	54
Mottled Sculpin	55	128	31	47	86	175
TOTAL	217	1373	163	1911	380	3284

Gear : Trawl
Date : 07/21/82
Station : III

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	23	548	50	876	73	1424
Johnny Darter	72	32	87	35	159	67
Iowa Darter	5	4	55	36	60	39
Logperch	9	38	25	88	34	126
White Sucker	4	993	26	831	30	1824
Trout-perch	21	164	14	77	35	241
Ninespine Stickleback	2	2	0	0	2	2
Brook Stickleback	1	1	0	0	1	1
Mottled Sculpin	2	2	5	14	7	16
Bluntnose Minnow	0	0	1	4	1	4
Spottail Shiner	10	68	37	242	47	310
Misc Shiner	5	5	2	5	7	10
TOTAL	154	1357	302	2207	456	4063

Gear : Trawl
Date : 08/17/82
Station : III

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	13	419	15	[illegible]	28	[illegible]
Johnny Darter	35	67	23	25	60	92
Iowa Darter	1	1	12	14	13	15
Logperch	21	86	19	67	40	153
Rainbow Smelt	2	1	1	1	3	2
White Sucker	8	73	7	831	15	904
Trout-perch	2	14	3	23	5	36
Rock Bass	2	7	0	0	2	7
Ninespine Stickleback	4	6	8	8	12	14
Brook Stickleback	9	9	4	6	13	16
Mottled Sculpin	113	339	56	103	174	442
Spottail Shiner	7	37	3	21	10	58
Mimic Shiner	8	13	1	2	9	15
TOTAL	230	1073	157	1406	387	2480

Gear : Trawl
Date : 09/27/82
Station : III

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	2	838	0	0	2	838
Yellow Perch	6	190	3	47	9	237
Johnny Darter	4	4	13	7	17	11
Iowa Darter	1	1	0	0	1	1
Logperch	0	0	1	1	1	1
Rainbow Smelt	2	1	3	1	5	3
White Sucker	39	3328	1	19	40	3347
Trout-perch	0	0	5	2	5	2
Rock Bass	1	1	2	1	3	2
Ninespine Stickleback	10	9	4	3	14	12
Brook Stickleback	6	8	1	0	7	8
Mottled Sculpin	7	11	10	9	17	21
Spottail Shiner	3	9	8	22	11	31
Mimic Shiner	0	0	6	4	6	4
TOTAL	91	4400	57	116	148	4516

Gear : Trawl
Date : 10/11/82
Station : III

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	1	214	1	214
Yellow Perch	0	0	1	20	1	20
Johnny Darter	9	9	9	-	18	18
Iowa Darter	2	2	1	1	3	3
White Sucker	7	74	4	232	11	306
Trout-perch	0	0	1	1	1	1
Rock Bass	2	2	1	1	3	3
Ninespine Stickleback	14	18	11	13	25	31
Brook Stickleback	2	1	2	1	4	2
Mottled Sculpin	20	67	24	24	44	90
Bluntnose Minnow	1	2	0	0	1	2
Emerald Shiner	0	0	6	22	6	22
Spottail Shiner	1	7	3	12	4	18
Notropis sp.	0	0	1	0	1	0
TOTAL	58	181	67	546	125	727

Gear : Trawl
Date : 11/01/82
Station : III

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	5	102	0	0	5	102
Johnny Darter	12	11	14	11	26	22
Iowa Darter	2	2	0	0	2	2
Rainbow Smelt	0	0	1	1	1	1
White Sucker	26	1117	1	22	27	1139
Ninespine Stickleback	2	3	0	0	2	3
Brook Stickleback	1	0	1	1	2	1
Mottled Sculpin	9	13	11	9	20	22
Bluntnose Minnow	3	6	0	0	3	6
Spottail Shiner	0	0	1	0	1	0
Mimic Shiner	4	4	0	0	4	4
TOTAL	64	1288	29	44	93	1332

Gear : Trawl
Date : 08/25/82
Station : IV

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	96	4	231	5	327
Johnny Darter	3	2	17	11	20	13
Northern Pike	0	0	1	780	1	780
Rainbow Smelt	0	0	1	1	1	1
White Sucker	0	0	23	5150	23	5150
Trout-perch	55	293	108	533	163	826
Bluegill	1	1	2	2	3	3
Ninespine Stickleback	27	37	83	116	110	153
Brook Stickleback	17	7	4	3	21	10
Mottled Sculpin	4	6	2	7	6	13
Spottail Shiner	2	9	3	15	5	24
TOTAL	110	451	248	6848	358	7300

Gear : Trawl
Date : 07/21/82
Station : IV

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	11	513	5	327	16	840
Johnny Darter	63	44	0	0	63	44
Northern Pike	4	1598	1	166	5	1764
White Sucker	2	11	1	1100	3	1111
Trout-perch	24	141	8	31	32	172
Bluegill	1	2	0	0	1	2
Rock Bass	2	142	1	17	3	159
Ninespine Stickleback	19	38	0	0	19	38
Brook Stickleback	26	28	0	0	26	28
Brown Bullhead	0	0	1	520	1	520
Mottled Sculpin	14	39	0	0	14	39
Spottail Shiner	8	61	2	13	10	74
TOTAL	174	2617	19	2174	193	4790

Gear : Trawl
Date : 08/17/82
Station : IV

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	7	225	66	819	73	1044
Johnny Darter	2	1	63	37	65	38
Iowa Darter	2	1	0	0	2	1
Logperch	0	0	4	1	4	1
Northern Pike	0	0	2	1050	2	1050
Rainbow Smelt	1	0	13	1	14	1
White Sucker	6	11	9	7	15	18
Trout-perch	10	44	3	10	13	54
Bluegill	0	0	2	8	2	8
Pumpkinseed	0	0	2	6	2	6
Rock Bass	3	193	11	986	14	1178
Ninespine Stickleback	46	27	6	3	52	30
Brook Stickleback	8	7	4	3	12	10
Mottled Sculpin	6	8	0	0	6	8
Bluntnose Minnow	0	0	4	13	4	13
Emerald Shiner	0	0	5	25	5	25
Spottail Shiner	34	170	116	758	150	928
Miaic Shiner	127	111	515	616	642	727
TOTAL	252	797	825	4343	1077	5140

Gear : Trawl
Date : 09/27/82
Station : IV

Species	DEEP Number	DEEP Weight(g)	SHALLOW Number	SHALLOW Weight(g)	COMBINED Number	COMBINED Weight(g)
Walleye	2	26	7	255	9	281
Yellow Perch	6	377	0	0	6	377
Johnny Darter	0	0	4	3	4	3
Logperch	1	1	0	0	1	1
Northern Pike	2	1330	0	0	2	1330
Rainbow Smelt	0	0	2	1	2	1
White Sucker	3	1261	3	1154	6	2415
Trout-perch	5	22	10	4	15	27
Rock Bass	2	2	4	869	6	871
Ninespine Stickleback	2	2	2	1	4	3
Brook Stickleback	6	5	0	0	6	5
Emerald Shiner	0	0	3	15	3	15
Spottail Shiner	3	7	41	171	44	178
Mimic Shiner	7	8	17	15	24	23
TOTAL	39	3040	93	2489	132	5529

Gear : Trawl
Date : 10/11/82
Station : IV

Species	DEEP Number	DEEP Weight(g)	SHALLOW Number	SHALLOW Weight(g)	COMBINED Number	COMBINED Weight(g)
Walleye	0	0	1	14	1	14
Yellow Perch	1	2	0	0	1	2
Johnny Darter	3	4	12	12	15	16
Logperch	0	0	1	1	1	1
Northern Pike	1	294	0	0	1	294
Rainbow Smelt	0	0	1	1	1	1
White Sucker	1	15	0	0	1	15
Trout-perch	0	0	5	3	5	3
Rock Bass	4	474	1	228	5	702
Ninespine Stickleback	9	15	1	1	10	16
Brook Stickleback	3	2	0	0	3	2
Emerald Shiner	0	0	51	149	51	149
Spottail Shiner	16	42	13	40	29	82
Mimic Shiner	6	8	2	2	8	10
TOTAL	44	856	88	451	132	1307

Gear : Trawl
Date : 11/01/82
Station : IV

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	24	0	0	1	24
Yellow Perch	0	0	1	9	1	9
Johnny Darter	22	14	22	7	44	21
Iowa Darter	2	0	0	0	2	0
Rainbow Smelt	9	6	1	0	10	6
White Sucker	1	222	0	0	1	222
Trout-perch	3	1	1	0	4	1
Ninespine Stickleback	1	0	1	0	2	0
Brook Stickleback	3	1	0	0	3	1
Mottled Sculpin	7	4	0	0	7	4
Spottail Shiner	21	7	6	1	27	9
Misc Shiner	6	4	0	0	6	4
TOTAL	76	283	32	18	108	301

Gear : Trawl
Date : 05/27/82
Station : V

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	1	196	1	196
Yellow Perch	2	21	0	0	2	21
Johnny Darter	8	5	0	0	8	5
Logperch	1	1	0	0	1	1
Trout-perch	82	404	51	168	133	572
Mottled Sculpin	1	8	0	0	1	8
Spottail Shiner	66	311	4	11	70	322
TOTAL	160	750	56	374	216	1124

Gear : Trawl
Date : 06/24/82
Station : V

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	2	406	3	145	5	551
Yellow Perch	21	292	1	66	22	358
Johnny Darter	5	2	50	29	55	31
Logperch	1	1	5	20	6	21
Rainbow Smelt	1	3	0	0	1	3
White Sucker	2	644	1	112	3	756
Trout-perch	147	711	205	573	352	1284
Mottled Sculpin	1	2	0	0	1	2
Emerald Shiner	32	146	0	0	32	146
Spottail Shiner	72	289	8	26	80	315
TOTAL	284	2496	273	971	557	3467

Gear : Trawl
Date : 07/20/82
Station : V

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	1	323	1	323
Yellow Perch	17	136	11	167	28	303
Johnny Darter	63	27	3	2	66	29
Logperch	7	14	3	7	10	21
White Sucker	3	1154	3	1689	6	2843
Trout-perch	62	263	211	550	273	813
Mottled Sculpin	1	2	0	0	1	2
Emerald Shiner	1	3	1	1	2	5
Spottail Shiner	39	148	9	21	48	169
TOTAL	193	1798	244	2760	437	4558

Gear : Trawl
Date : 08/25/82
Station : V

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	7	93	2	24	9	117
Yellow Perch	72	227	1	1	73	228
Johnny Darter	28	12	11	8	39	20
Logperch	9	26	2	7	11	33
Northern Pike	2	1008	0	0	2	1008
Rainbow Smelt	4	1	6	1	10	2
White Sucker	0	0	1	1034	1	1034
Trout-perch	26	83	127	330	153	413
Rock Bass	1	0	0	0	1	0
Ninespine Stickleback	0	0	1	1	1	1
Mottled Sculpin	1	1	0	0	1	1
Emerald Shiner	1	3	1	2	2	5
Spottail Shiner	92	313	3	8	95	321
Mimic Shiner	174	155	2	10	176	165
TOTAL	417	1922	157	1425	574	3347

Gear : Trawl
Date : 09/22/82
Station : V

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	3	29	3	29
Yellow Perch	25	90	2	24	27	114
Johnny Darter	47	36	15	12	62	48
Logperch	7	28	3	12	10	40
Northern Pike	1	226	0	0	1	226
Rainbow Smelt	2	1	1	1	3	2
White Sucker	0	0	3	902	3	902
Silver Redhorse	1	1480	0	0	1	1480
Trout-perch	5	14	208	1080	213	1094
Smallmouth Bass	1	354	0	0	1	354
Ninespine Stickleback	1	1	0	0	1	1
Mottled Sculpin	6	38	0	0	6	38
Emerald Shiner	114	662	0	0	114	662
Spottail Shiner	0	0	19	54	19	54
Mimic Shiner	47	46	0	0	47	46
TOTAL	257	2975	254	2114	511	5089

Gear : Trawl
Date : 10/18/82
Station : V

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	3	721	8	987	11	1708
Yellow Perch	12	26	6	22	18	48
Johnny Darter	39	35	19	17	58	52
Logperch	6	17	4	31	10	48
Rainbow Smelt	1	1	1	2	2	2
Shorthead Redhorse	0	0	1	770	1	770
White Sucker	4	1740	1	86	5	1826
Lake Herring	1	468	0	0	1	468
Trout-perch	3	4	78	355	81	359
Ninespine Stickleback	1	1	0	0	1	1
Brook Stickleback	1	2	0	0	1	2
Mottled Sculpin	9	30	0	0	9	30
Emerald Shiner	0	0	1	3	1	3
Spottail Shiner	11	15	20	58	31	73
Mimic Shiner	0	0	3	4	3	4
TOTAL	91	3059	142	2333	233	5392

Gear : Trawl
Date : 11/09/82
Station : V

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	6	7566	3	22	9	7588
Yellow Perch	3	35	8	484	11	519
Johnny Darter	11	8	13	10	24	18
Logperch	0	0	3	17	3	17
Northern Pike	1	612	0	0	1	612
Rainbow Smelt	1	1	1	1	2	2
Lake Herring	2	668	0	0	2	668
Trout-perch	0	0	85	252	85	252
Rock Bass	0	0	1	2	1	2
Brook Stickleback	1	2	0	0	1	2
Mottled Sculpin	6	21	1	1	7	22
Emerald Shiner	0	0	1	1	1	1
Spottail Shiner	1	9	27	84	28	93
Miaic Shiner	1	1	20	22	21	24
TOTAL	33	8922	163	896	196	9818

Gear : Trawl
Date : 05/27/82
Station : VI

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	58	0	0	1	58
Yellow Perch	2	487	2	462	4	949
Johnny Darter	20	17	0	0	20	17
White Sucker	4	286	3	886	7	1172
Trout-perch	110	862	150	647	260	1509
Rock Bass	1	48	0	0	1	48
Emerald Shiner	0	0	4	22	4	22
Spottail Shiner	3	18	6	34	9	52
TOTAL	141	1776	165	2050	306	3826

Gear : Trawl
Date : 06/24/82
Station : VI

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	4	1153	4	1153
Yellow Perch	4	32	5	184	9	215
Johnny Darter	6	7	6	3	12	9
Logperch	1	1	0	0	1	1
White Sucker	17	271	6	204	23	475
Trout-perch	106	347	133	372	239	719
Mottled Sculpin	0	0	4	10	4	10
Spottail Shiner	22	92	29	171	51	263
Mimic Shiner	0	0	34	62	34	62
TOTAL	156	749	221	2159	377	2908

Gear : Trawl
Date : 07/20/82
Station : VI

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	3	8	0	0	3	8
Yellow Perch	24	420	116	960	140	1380
Johnny Darter	27	23	19	13	46	36
Northern Pike	1	342	0	0	1	342
Rainbow Smelt	0	0	4	0	4	0
White Sucker	3	114	0	0	3	114
Trout-perch	188	587	108	277	296	864
Brook Stickleback	0	0	1	1	1	1
Mottled Sculpin	6	25	2	11	8	36
Spottail Shiner	46	177	35	168	81	345
Mimic Shiner	48	60	0	0	48	60
TOTAL	346	2255	285	1430	631	3685

Gear : Trawl
Date : 08/23/82
Station : VI

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	2	17	0	0	2	17
Yellow Perch	252	1604	8	500	260	2104
Johnny Darter	19	12	23	15	42	27
Logperch	2	7	1	8	3	15
Rainbow Smelt	13	2	4	1	17	3
White Sucker	27	378	0	0	27	378
Trout-perch	53	152	102	326	155	478
Smallmouth Bass	1	87	0	0	1	87
Ninespine Stickleback	2	0	0	0	2	0
Mottled Sculpin	3	6	1	4	4	10
Bluntnose Minnow	0	0	1	2	1	2
Emerald Shiner	0	0	2	4	2	4
Spottail Shiner	48	209	0	0	48	209
Mimic Shiner	11	12	0	0	11	12
TOTAL	433	2486	142	859	575	3345

Gear : Trawl
Date : 09/22/82
Station : VI

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	3	349	1	10	4	359
Yellow Perch	43	100	15	224	58	324
Johnny Darter	13	10	3	3	16	13
Logperch	1	1	2	11	3	12
Rainbow Smelt	4	3	2	2	6	5
White Sucker	3	40	3	34	6	74
Trout-perch	72	220	60	250	132	470
Rock Bass	0	0	2	272	2	272
Brook Stickleback	3	4	1	2	4	7
Mottled Sculpin	3	10	0	0	3	10
Spottail Shiner	23	72	14	52	37	124
Mimic Shiner	0	0	1	1	1	1
TOTAL	168	810	104	860	272	1670

Gear : Trawl
Date : 10/18/82
Station : VI

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	3	1134	3	696	6	1830
Yellow Perch	3	6	48	700	51	706
Johnny Darter	12	8	6	9	18	17
Logperch	7	28	8	46	15	74
White Sucker	0	0	5	309	5	309
Trout-perch	92	290	61	240	153	530
Mottled Sculpin	7	31	2	12	9	43
Emerald Shiner	2	7	8	22	10	29
Spottail Shiner	5	33	15	60	20	93
Mimic Shiner	0	0	23	25	23	25
TOTAL	131	1537	179	2119	310	3655

Gear : Trawl
Date : 11/09/92
Station : VI

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	5	1120	1	430	6	1550
Yellow Perch	3	5	7	38	10	44
Johnny Darter	7	6	0	0	7	6
Logperch	2	13	1	5	3	18
Rainbow Smelt	4	3	0	0	4	3
White Sucker	7	3738	1	9	8	3747
Lake Herring	0	0	1	370	1	370
Trout-perch	30	146	38	0	68	146
Rock Bass	0	0	1	26	1	26
Mottled Sculpin	1	7	0	0	1	7
Spottail Shiner	9	44	16	52	25	96
Misc Shiner	1	1	14	19	15	19
TOTAL	69	5083	80	949	149	6032

Gear : Trawl
Date : 05/27/82
Station : VII

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	666	1	92	2	758
Yellow Perch	5	98	7	142	12	240
Johnny Darter	7	4	7	5	14	8
Logperch	2	1	0	0	2	1
Northern Pike	2	1080	0	0	2	1080
Rainbow Smelt	101	371	25	43	126	414
White Sucker	16	112	13	1085	29	1197
Trout-perch	113	539	99	568	212	1107
Rock Bass	1	56	1	96	2	152
Ninespine Stickleback	6	6	1	1	7	7
Brook Stickleback	0	0	1	1	1	1
Mottled Sculpin	2	8	3	7	5	15
Emerald Shiner	0	0	1	6	1	6
Spottail Shiner	14	39	18	81	32	120
TOTAL	270	2979	177	2126	447	5105

Gear : Trawl
Date : 06/24/82
Station : VII

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	8	151	10	288	18	440
Johnny Darter	1	1	6	6	7	7
Northern Pike	1	456	1	662	2	1118
Rainbow Smelt	22	23	15	15	37	38
White Sucker	11	906	17	1093	28	1999
Trout-perch	157	521	201	978	358	1498
Rock Bass	0	0	1	1	1	1
Ninespine Stickleback	2	2	0	0	2	2
Mottled Sculpin	0	0	3	13	3	13
Spottail Shiner	39	206	10	58	49	264
Mimic Shiner	0	0	1	2	1	2
TOTAL	241	2266	265	3116	506	5382

Gear : Trawl
Date : 07/20/82
Station : VII

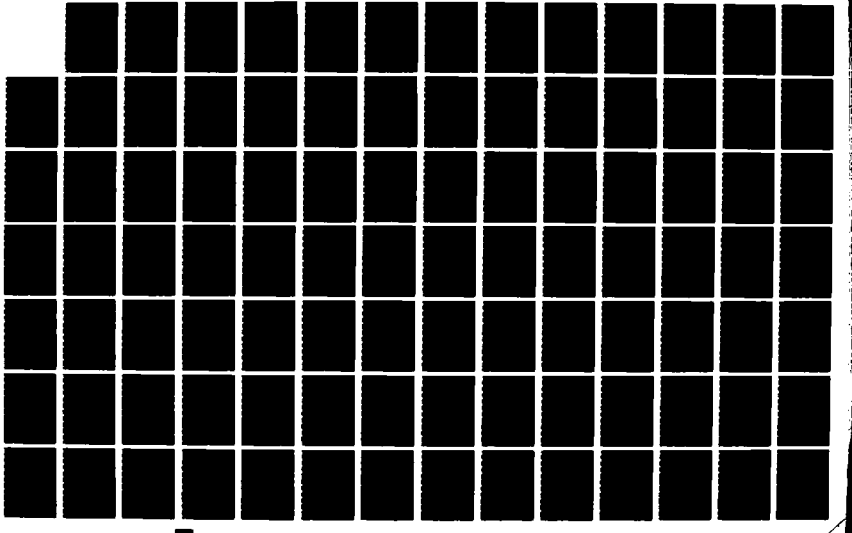
Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	1	1	1	1
Yellow Perch	13	450	100	97	113	547
Johnny Darter	50	27	19	12	69	38
Logperch	3	11	0	0	3	11
White Sucker	21	1600	0	0	21	1600
Trout-perch	209	705	91	227	300	932
Rock Bass	0	0	1	54	1	54
Ninespine Stickleback	0	0	1	2	1	2
Brook Stickleback	0	0	1	1	1	1
Mottled Sculpin	4	8	32	119	36	127
Spottail Shiner	41	192	47	200	88	393
Mimic Shiner	0	0	1	1	1	1
TOTAL	341	2993	294	714	635	3708

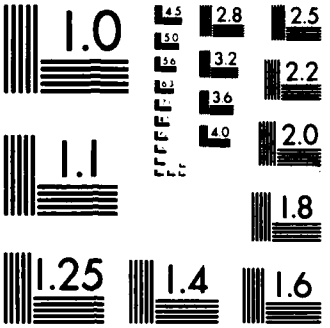
Gear : Trawl
Date : 08/23/82
Station : VII

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	3	21	3	687	6	708
Yellow Perch	74	440	73	697	147	1136
Johnny Darter	47	26	15	10	62	36
Logperch	1	1	6	15	7	16
Rainbow Smelt	13	5	9	1	22	6
White Sucker	4	930	3	1213	7	2143
Trout-perch	166	396	68	123	234	519
Rock Bass	1	5	1	1	2	6
Smallmouth Bass	0	0	1	531	1	531
Brook Stickleback	15	10	6	3	21	13
Mottled Sculpin	6	15	6	14	12	30
Bluntnose Minnow	0	0	8	14	8	14
Spottail Shiner	50	169	10	25	60	194
Mimic Shiner	11	10	5	4	16	14
TOTAL	391	2027	214	3338	605	5365

AD-A184 685 LIMNOLOGICAL AND FISHERIES STUDIES OF THE ST MARYS RIVER MICHIGAN IN RELA (U) MICHIGAN STATE UNIV EAST LANSING MI DEPT OF FISHERIES AND WIL 6/7

UNCLASSIFIED C R LISTON ET AL JAN 86 F/G 24/4 NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963-A

Gear : Trawl
Date : 09/22/82
Station : VII

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	2	16	0	0	2	16
Yellow Perch	42	576	49	425	91	1001
Johnny Darter	29	16	24	17	53	33
Logperch	0	0	7	18	7	18
Northern Pike	0	0	2	802	2	802
Burbot	0	0	1	94	1	94
Rainbow Smelt	5	0	12	4	17	4
White Sucker	2	746	2	571	4	1317
Trout-perch	109	380	123	448	232	828
Pumpkinseed	0	0	1	2	1	2
Rock Bass	8	377	20	1100	28	1477
Brook Stickleback	9	5	3	2	12	7
Mottled Sculpin	4	15	21	51	25	66
Bluntnose Minnow	3	4	40	85	43	89
Emerald Shiner	39	126	56	130	95	256
Spottail Shiner	18	67	13	36	31	103
Mimic Shiner	57	48	4	0	61	48
Notropis sp.	0	0	15	0	15	0
TOTAL	327	2376	393	3784	720	6160

Gear : Trawl
Date : 10/18/82
Station : VII

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	1960	1	5	2	1965
Yellow Perch	19	433	10	160	29	593
Johnny Darter	14	9	10	8	24	17
Logperch	1	1	0	0	1	1
Rainbow Smelt	4	5	2	1	6	6
White Sucker	0	0	2	1506	2	1506
Trout-perch	28	126	16	70	44	196
Rock Bass	2	144	1	328	3	472
Ninespine Stickleback	1	1	0	0	1	1
Mottled Sculpin	1	3	4	11	5	13
Bluntnose Minnow	1	2	11	13	12	15
Emerald Shiner	1	2	0	0	1	2
Spottail Shiner	8	44	0	0	8	44
Mimic Shiner	16	20	13	11	29	31
TOTAL	97	2749	70	2113	167	4862

Gear : Trawl
Date : 11/09/82
Station : VII

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	25	390	22	0	47	390
Johnny Darter	23	10	8	5	31	15
Northern Pike	2	1060	0	0	2	1060
Rainbow Smelt	4	2	5	4	9	6
White Sucker	2	598	3	554	5	1152
Trout-perch	216	770	193	790	409	1560
Pumpkinseed	0	0	1	36	1	36
Rock Bass	1	4	11	1232	12	1235
Ninespine Stickleback	1	1	0	0	1	1
Brook Stickleback	1	2	0	0	1	2
Brown Bullhead	1	346	2	696	3	1042
Mottled Sculpin	3	0	3	5	6	5
Bluntnose Minnow	1	4	2	7	3	11
Emerald Shiner	0	0	1	2	1	2
Spottail Shiner	10	36	4	9	14	45
Miaic Shiner	55	60	17	18	72	78
Notropis sp.	0	0	22	3	22	3
TOTAL	345	3782	294	3361	639	7143

Gear : Trawl
Date : 05/16/83
Station : I

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Johnny Darter	60	38	34	20	94	58
White Sucker	1	961	0	0	1	961
Round Whitefish	1	91	4	332	5	423
Ninespine Stickleback	3	7	5	10	8	17
Brook Stickleback	4	5	6	6	10	11
Mottled Sculpin	34	65	27	67	61	132
Spottail Shiner	0	0	1	0	1	0
TOTAL	103	1167	77	435	180	1602

Gear : Trawl
Date : 06/21/83
Station : I

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Johnny Darter	2	1	7	4	9	5
Iowa Darter	0	0	1	1	1	1
White Sucker	1	674	0	0	1	674
Lake Whitefish	1	62	0	0	1	62
Trout-perch	0	0	2	15	2	15
Ninespine Stickleback	16	27	32	64	48	91
Brook Stickleback	3	3	0	0	3	3
Mottled Sculpin	4	5	9	10	13	15
TOTAL	27	771	51	95	78	866

Gear : Trawl
Date : 07/12/83
Station : I

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	73	1	340	2	413
Johnny Darter	1	2	3	3	4	5
Rainbow Smelt	0	0	1	4	1	4
White Sucker	3	1241	1	724	4	1965
Lake Whitefish	1	2	1	3	2	6
Trout-perch	0	0	1	7	1	7
Ninespine Stickleback	3	9	25	50	28	58
Brook Stickleback	2	2	5	7	7	9
Mottled Sculpin	21	54	4	7	25	61
TOTAL	32	1383	42	1144	74	2527

Gear : Trawl
Date : 08/16/83
Station : I

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	190	251	211	757	401	1009
Johnny Darter	12	12	22	23	34	36
Logperch	1	1	1	1	2	2
Northern Pike	2	40	2	24	4	64
White Sucker	105	124	36	48	141	172
Ninespine Stickleback	4	2	17	16	21	19
Brook Stickleback	1	1	3	4	4	5
Mottled Sculpin	3	8	3	16	6	24
Spottail Shiner	4	2	0	0	4	2
TOTAL	322	443	295	889	617	1332

Gear : Trawl
Date : 09/14/83
Station : I

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	13	54	65	202	78	256
Johnny Darter	8	11	18	15	26	26
Iowa Darter	2	2	1	1	3	3
Northern Pike	4	135	0	0	4	135
White Sucker	1	5	1	3	2	8
Lake Whitefish	0	0	1	54	1	54
Rock Bass	2	2	3	2	5	4
Ninespine Stickleback	2	2	4	5	6	7
Brook Stickleback	0	0	11	4	11	4
Spoonhead Sculpin	1	3	0	0	1	3
Mottled Sculpin	14	26	15	39	29	66
Spottail Shiner	1	7	1	1	2	8
TOTAL	48	248	120	325	168	573

Gear : Trawl
Date : 10/11/83
Station : I

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	11	30	1	3	12	33
Johnny Darter	15	17	11	6	26	23
Lake Whitefish	2	304	0	0	2	304
Ninespine Stickleback	4	6	0	0	4	6
Brook Stickleback	3	3	5	3	8	6
Mottled Sculpin	25	34	9	5	34	39
TOTAL	60	392	26	17	86	410

Gear : Trawl
Date : 11/14/83
Station : I

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Johnny Darter	4	2	1	0	5	2
Ninespine Stickleback	2	2	0	0	2	2
Brook Stickleback	1	1	2	1	3	1
Mottled Sculpin	3	9	1	1	4	10
TOTAL	10	14	4	2	14	16

Gear : Trawl
Date : 05/17/83
Station : II

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	3	181	3	181
Johnny Darter	1	2	0	0	1	2
Rainbow Smelt	3	30	0	0	3	30
Trout-perch	0	0	1	9	1	9
Ninespine Stickleback	7	8	4	4	11	11
Mottled Sculpin	4	20	0	0	4	20
TOTAL	15	58	8	194	23	252

Gear : Trawl
Date : 06/20/83
Station : II

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Johnny Darter	1	2	0	0	1	2
Logperch	0	0	2	6	2	6
Northern Pike	1	1200	0	0	1	1200
Rainbow Smelt	4	45	4	33	8	78
White Sucker	1	1060	8	4113	9	5173
Chinook Salmon	1	10	0	0	1	10
Trout-perch	92	635	12	80	104	715
Ninespine Stickleback	23	35	0	0	23	35
Brook Stickleback	0	0	1	2	1	2
Mottled Sculpin	33	64	0	0	33	64
Spottail Shiner	3	24	0	0	3	24
Mimic Shiner	5	8	0	0	5	8
TOTAL	164	3082	27	4234	191	7316

Gear : Trawl
Date : 07/07/83
Station : II

Species	DEEP Number	DEEP Weight(g)	SHALLOW Number	SHALLOW Weight(g)	COMBINED Number	COMBINED Weight(g)
Walleye	1	25	2	428	3	453
Yellow Perch	0	0	2	47	2	47
Johnny Darter	0	0	5	5	5	5
Logperch	0	0	13	60	13	60
Rainbow Smelt	2	22	0	0	2	22
White Sucker	5	2580	9	1419	14	4000
Trout-perch	105	681	8	44	113	724
Rock Bass	0	0	6	1438	6	1438
Ninespine Stickleback	10	15	0	0	10	15
Brook Stickleback	1	1	0	0	1	1
Mottled Sculpin	16	55	1	2	17	57
Emerald Shiner	2	13	4	25	6	38
Spottail Shiner	15	100	22	151	37	251
Mimic Shiner	266	421	56	130	322	551
TOTAL	423	3912	128	3750	551	7662

Gear : Trawl
Date : 08/03/83
Station : II

Species	DEEP Number	DEEP Weight(g)	SHALLOW Number	SHALLOW Weight(g)	COMBINED Number	COMBINED Weight(g)
Yellow Perch	9	75	0	0	9	75
Johnny Darter	1	3	1	2	2	5
Logperch	20	123	5	27	25	150
White Sucker	13	2519	7	1572	20	4091
Trout-perch	2	12	0	0	2	12
Bluegill	8	4	0	0	8	4
Rock Bass	29	19	37	3018	66	3037
Smallmouth Bass	0	0	1	2	1	2
Ninespine Stickleback	1	2	0	0	1	2
Brook Stickleback	1	2	0	0	1	2
Brown Bullhead	0	0	1	288	1	288
Mottled Sculpin	9	39	1	3	10	42
Spottail Shiner	2	10	3	25	5	36
Mimic Shiner	0	0	4	9	4	9
TOTAL	95	2806	60	4947	155	7753

Gear : Trawl
Date : 09/07/83
Station : II

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	3	0	3	0
Yellow Perch	15	46	30	167	45	212
Johnny Darter	4	7	1	2	5	10
Logperch	25	122	18	99	43	221
White Sucker	9	53	14	1792	23	1845
Rock Bass	4	146	9	86	13	233
Brown Bullhead	4	308	12	76	16	384
Mottled Sculpin	3	13	3	14	6	27
Bluntnose Minnow	2	4	0	0	2	4
Emerald Shiner	0	0	1	3	1	3
Spottail Shiner	27	128	19	61	46	189
Mimic Shiner	85	179	42	86	127	266
TOTAL	178	1006	152	2386	330	3392

Gear : Trawl
Date : 10/17/83
Station : II

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	5	153	8	34	13	187
Johnny Darter	11	12	4	3	15	15
Rainbow Smelt	1	1	0	0	1	1
White Sucker	1	62	7	2140	8	2202
Rock Bass	1	1	3	3	4	4
Ninespine Stickleback	2	3	2	3	4	6
Brown Bullhead	2	334	1	70	3	404
Mottled Sculpin	27	59	27	54	54	113
Spottail Shiner	4	7	0	0	4	7
TOTAL	54	630	52	2309	106	2938

Gear : Trawl
Date : 11/07/83
Station : II

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	5	0	0	1	5
Johnny Darter	2	2	1	2	3	4
Iowa Darter	0	0	1	1	1	1
White Sucker	1	944	2	1600	3	2544
Bluegill	2	3	0	0	2	3
Rock Bass	1	1	0	0	1	1
Brook Stickleback	2	2	0	0	2	2
Brown Bullhead	1	92	0	0	1	92
Mottled Sculpin	3	12	8	27	11	40
TOTAL	13	1061	12	1630	25	2691

Gear : Trawl
Date : 05/26/83
Station : III

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	4	67	0	0	4	67
Johnny Darter	11	17	29	20	40	37
Iowa Darter	4	4	0	0	4	4
White Sucker	7	689	6	181	13	870
Trout-perch	2	11	0	0	2	11
Ninespine Stickleback	5	11	1	2	6	12
Brook Stickleback	5	7	3	2	8	9
Mottled Sculpin	16	25	9	10	25	34
Bluntnose Minnow	0	0	1	2	1	2
TOTAL	54	829	49	217	103	1046

Gear : Trawl
Date : 06/20/83
Station : III

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	1	36	1	36
Johnny Darter	5	5	1	1	6	6
Logperch	3	18	5	15	8	33
Rainbow Smelt	1	14	9	86	10	100
White Sucker	2	26	10	1834	12	1860
Trout-perch	4	28	25	190	29	218
Ninespine Stickleback	3	6	6	11	9	17
Brook Stickleback	18	29	1	1	19	30
Mottled Sculpin	49	72	6	9	55	81
Spottail Shiner	0	0	1	10	1	10
Mimic Shiner	0	0	2	3	2	3
TOTAL	85	197	67	2195	152	2393

Gear : Trawl
Date : 07/19/83
Station : III

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	300	0	0	1	300
Yellow Perch	1	390	2	65	3	455
Johnny Darter	1	2	19	20	20	22
Iowa Darter	2	2	0	0	2	2
Logperch	1	4	16	77	17	81
White Sucker	2	1216	14	2676	16	3892
Trout-perch	28	193	6	41	34	233
Ninespine Stickleback	3	6	0	0	3	6
Brook Stickleback	44	69	0	0	44	69
Mottled Sculpin	120	455	6	21	126	476
Spottail Shiner	0	0	38	293	38	293
Mimic Shiner	42	59	30	56	72	115
TOTAL	245	2695	131	3249	376	5944

Gear : Trawl
Date : 08/11/83
Station : III

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	31	278	2	33	33	311
Johnny Darter	13	17	1	1	14	18
Iowa Darter	4	3	0	0	4	3
Logperch	3	16	0	0	3	16
Northern Pike	1	0	0	0	1	0
White Sucker	44	2048	7	219	51	2267
Trout-perch	4	17	7	37	11	54
Rock Bass	0	0	1	1	1	1
Ninespine Stickleback	3	1	0	0	3	1
Brook Stickleback	13	17	0	0	13	17
Mottled Sculpin	30	82	1	4	31	86
Bluntnose Minnow	6	26	0	0	6	26
Spottail Shiner	32	229	25	128	57	357
Mimic Shiner	14	23	6	14	20	36
TOTAL	198	2757	50	436	248	3192

Gear : Trawl
Date : 09/07/83
Station : III

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	56	1	0	2	56
Yellow Perch	5	45	69	288	74	333
Johnny Darter	5	4	5	4	10	8
Iowa Darter	0	0	1	1	1	1
Logperch	1	6	1	2	2	8
Northern Pike	0	0	1	40	1	40
Shorthead Redhorse	0	0	1	914	1	914
White Sucker	10	631	4	18	14	649
Trout-perch	1	7	7	11	8	18
Bluegill	2	2	0	0	2	2
Pumpkinseed	1	20	2	51	3	71
Rock Bass	1	360	1	1	2	361
Ninespine Stickleback	5	4	0	0	5	4
Brook Stickleback	1	1	2	2	3	3
Mottled Sculpin	25	79	2	2	27	81
Spottail Shiner	10	16	32	76	42	93
Mimic Shiner	10	16	11	15	21	31
TOTAL	78	1247	140	1425	218	2672

Gear : Trawl
Date : 10/17/83
Station : III

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	585	0	0	1	585
Yellow Perch	8	26	8	502	16	528
Johnny Darter	25	18	6	3	31	21
Iowa Darter	4	3	0	0	4	3
Logperch	1	1	0	0	1	1
Rainbow Smelt	5	6	2	1	7	7
White Sucker	12	1135	5	20	17	1155
Trout-perch	1	4	0	0	1	4
Rock Bass	2	3	3	2	5	5
Ninespine Stickleback	1	1	9	10	10	11
Brook Stickleback	4	6	3	1	7	6
Mottled Sculpin	47	128	3	7	50	134
Bluntnose Minnow	3	11	1	1	4	12
Spottail Shiner	66	179	13	27	79	207
Mimic Shiner	29	40	3	4	32	44
TOTAL	209	2148	56	577	265	2725

Gear : Trawl
Date : 11/02/83
Station : III

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	23	2	5	3	28
Johnny Darter	10	10	13	4	23	14
Iowa Darter	2	2	0	0	2	2
Rainbow Smelt	0	0	2	2	2	2
White Sucker	0	0	6	415	6	415
Black Crappie	1	4	0	0	1	4
Bluegill	2	2	0	0	2	2
Rock Bass	2	2	10	8	12	11
Ninespine Stickleback	2	3	1	1	3	4
Brook Stickleback	4	2	1	1	5	3
Mottled Sculpin	9	26	1	1	10	26
Bluntnose Minnow	1	2	0	0	1	2
Spottail Shiner	6	2	2	1	8	3
Mimic Shiner	10	5	3	1	13	6
TOTAL	50	82	41	438	91	520

Gear : Trawl
Date : 05/25/83
Station : IV

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Johnny Darter	19	16	22	18	41	34
White Sucker	7	118	0	0	7	118
Trout-perch	6	43	4	38	10	81
Black Crappie	1	5	0	0	1	5
Ninespine Stickleback	6	12	5	11	11	23
Brook Stickleback	2	1	1	0	3	1
Mottled Sculpin	1	1	3	2	4	3
Spottail Shiner	4	5	1	3	5	8
TOTAL	46	200	36	73	82	273

Gear : Trawl
Date : 06/20/83
Station : IV

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Johnny Darter	15	14	9	8	24	22
Logperch	5	9	1	3	6	12
Northern Pike	3	1715	0	0	3	1715
Rainbow Smelt	6	40	7	56	13	96
White Sucker	22	634	2	928	24	1562
Lake Herring	2	11	1	1	3	12
Trout-perch	50	281	29	119	79	400
Ninespine Stickleback	93	155	0	0	93	155
Brook Stickleback	3	2	1	1	4	3
Mottled Sculpin	7	7	0	0	7	7
Spottail Shiner	5	38	26	174	31	212
TOTAL	211	2907	76	1289	287	4196

Gear : Trawl
Date : 07/19/83
Station : IV

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	13	661	0	0	17	661
Johnny Darter	9	6	22	13	31	19
Rainbow Smelt	0	0	40	4	40	4
White Sucker	3	2220	0	0	3	2220
Lake Whitefish	0	0	1	5	1	5
Trout-perch	0	0	1	1	1	1
Ninespine Stickleback	2	4	0	0	2	4
Brook Stickleback	4	5	0	0	4	5
Mottled Sculpin	17	47	0	0	17	47
Spottail Shiner	7	42	12	83	19	126
Mimic Shiner	2	3	3	7	5	10
TOTAL	57	2988	79	113	136	3101

Gear : Trawl
Date : 08/11/83
Station : IV

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	18	140	16	119	34	259
Johnny Darter	0	0	5	7	5	7
Logperch	0	0	2	7	2	7
Northern Pike	2	599	1	803	3	1402
Rainbow Smelt	1	0	0	0	1	0
White Sucker	5	4	6	2492	11	2495
Trout-perch	0	0	13	10	13	10
Black Crappie	0	0	1	2	1	2
Bluegill	12	8	15	11	27	19
Rock Bass	21	274	5	5	26	279
Smallmouth Bass	0	0	1	5	1	5
Ninespine Stickleback	4	2	0	0	4	2
Brook Stickleback	1	0	0	0	1	0
Mottled Sculpin	1	2	0	0	1	2
Bluntnose Minnow	0	0	1	3	1	3
Spottail Shiner	30	116	82	114	112	230
Mimic Shiner	87	127	21	32	108	159
TOTAL	182	1270	169	3610	351	4880

Gear : Trawl
Date : 09/08/83
Station : IV

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	468	2	248	3	716
Yellow Perch	59	276	2	3	61	278
Johnny Darter	1	0	3	1	4	1
Northern Pike	2	0	0	0	2	0
White Sucker	9	9	4	5	13	14
Trout-perch	1	0	139	97	140	97
Black Crappie	12	31	18	36	30	67
Bluegill	38	23	0	0	38	23
Pumpkinseed	0	0	1	56	1	56
Rock Bass	19	495	0	0	19	495
Ninespine Stickleback	7	5	1	1	8	6
Brook Stickleback	1	0	0	0	1	0
Bluntnose Minnow	10	20	0	0	10	20
Spottail Shiner	28	45	38	40	66	85
Mimic Shiner	167	179	35	19	202	198
Notropis sp.	0	0	4	0	4	0
TOTAL	355	1551	247	505	602	2056

Gear : Trawl
Date : 10/17/83
Station : IV

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	1	560	1	560
Yellow Perch	33	91	6	91	39	182
Johnny Darter	2	0	1	1	3	2
Rainbow Smelt	0	0	1	1	1	1
White Sucker	1	1	1	405	2	406
Trout-perch	4	7	1	9	5	16
Black Crappie	1	3	6	17	7	20
Bluegill	12	9	1	1	13	10
Rock Bass	13	298	3	4	16	301
Brook Stickleback	8	2	0	0	8	2
Mottled Sculpin	4	9	0	0	4	9
Emerald Shiner	0	0	1	1	1	1
Spottail Shiner	13	32	61	115	74	147
Mimic Shiner	5	7	14	20	19	26
TOTAL	96	460	97	1223	193	1683

Gear : Trawl
Date : 11/01/83
Station : IV

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	58	253	2	4	60	257
Rainbow Smelt	0	0	1	1	1	1
White Sucker	3	58	0	0	3	58
Trout-perch	28	53	0	0	28	53
Black Crappie	3	9	0	0	3	9
Bluegill	6	9	0	0	6	9
Rock Bass	1	2	0	0	1	2
Brook Stickleback	2	2	4	1	6	3
Brown Bullhead	1	310	0	0	1	310
Mottled Sculpin	1	9	0	0	1	9
Spottail Shiner	200	217	11	8	211	224
Mimic Shiner	6	9	0	0	6	9
TOTAL	309	929	18	14	327	942

Gear : Trawl
Date : 06/18/83
Station : V

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	8	1359	7	796	15	2155
Yellow Perch	5	182	3	174	8	356
Johnny Darter	6	3	0	0	6	3
Logperch	1	2	0	0	1	2
Rainbow Smelt	0	0	3	11	3	11
White Sucker	10	668	2	882	12	1550
Trout-perch	209	1033	128	651	337	1684
Emerald Shiner	1	2	1	5	2	7
Spottail Shiner	31	153	10	55	41	208
Mimic Shiner	5	9	1	4	6	13
TOTAL	276	3415	155	2577	431	5992

Gear : Trawl
Date : 06/21/83
Station : V

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	9	1	6	2	15
Yellow Perch	0	0	1	12	1	12
Johnny Darter	1	1	2	2	3	3
Logperch	0	0	4	20	4	20
Rainbow Smelt	5	9	2	2	7	11
White Sucker	5	3993	0	0	5	3993
Trout-perch	138	771	475	109	613	880
Alewife	0	0	1	50	1	50
Mottled Sculpin	4	12	0	0	4	12
Spottail Shiner	28	143	7	40	35	183
TOTAL	182	4937	493	240	675	5177

Gear : Trawl
Date : 07/21/83
Station : V

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	5	1032	0	0	5	1032
Yellow Perch	0	0	4	2	4	2
Johnny Darter	12	2	9	3	21	5
Logperch	4	21	1	0	5	21
Rainbow Smelt	3	0	1	0	4	0
White Sucker	1	1180	0	0	1	1180
Trout-perch	160	540	40	40	200	580
Black Crappie	0	0	1	0	1	0
Rock Bass	0	0	4	1	4	1
Spottail Shiner	14	60	19	72	33	132
Mimic Shiner	3	5	0	0	3	5
TOTAL	202	2840	79	118	281	2958

Gear : Trawl
Date : 08/15/83
Station : V

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	4	1426	2	82	6	1508
Yellow Perch	27	91	0	0	27	91
Johnny Darter	20	9	10	3	30	12
Logperch	5	25	0	0	5	25
Northern Pike	2	1136	0	0	2	1136
Rainbow Smelt	3	1	0	0	3	1
White Sucker	12	1045	9	1011	21	2056
Trout-perch	155	284	57	239	212	523
Black Crappie	33	40	106	119	139	159
Bluegill	57	18	0	0	57	18
Rock Bass	32	22	2	111	34	133
Smallmouth Bass	1	3	0	0	1	3
Ninespine Stickleback	9	3	0	0	9	3
Mottled Sculpin	5	3	0	0	5	3
Spottail Shiner	128	146	98	263	226	409
Mimic Shiner	13	23	5	9	18	32
TOTAL	506	4275	289	1837	795	6112

Gear : Trawl
Date : 09/22/83
Station : V

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	2	442	0	0	2	442
Yellow Perch	106	350	3	88	109	437
Johnny Darter	5	3	16	5	21	8
Logperch	5	5	2	7	7	12
Northern Pike	2	108	0	0	2	108
Rainbow Smelt	4	2	4	2	8	4
White Sucker	6	242	2	1339	8	1581
Silver Redhorse	0	0	2	454	2	454
Lake Trout	0	0	1	1700	1	1700
Trout-perch	30	34	253	980	283	1014
Black Crappie	45	73	1	2	46	75
Bluegill	4	3	0	0	4	3
Rock Bass	10	14	1	138	11	152
Freshwater Drum	0	0	1	3	1	3
Ninespine Stickleback	16	12	0	0	16	12
Brown Bullhead	1	360	2	399	3	759
Gizzard Shad	0	0	21	31	21	31
Mottled Sculpin	3	3	0	0	3	3
Bluntnose Minnow	2	1	1	2	3	2
Emerald Shiner	6	23	10	24	16	47
Spottail Shiner	45	49	48	256	93	305
Mimic Shiner	58	11	3	3	61	14
TOTAL	350	1734	371	5431	721	7165

Gear : Trawl
Date : 10/17/83
Station : V

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	61	1330	4	96	65	1426
Johnny Darter	15	7	6	2	21	9
Logperch	0	0	1	1	1	1
Rainbow Smelt	1	1	1	1	2	1
White Sucker	1	944	1	2	2	946
Trout-perch	15	51	120	580	135	631
Black Crappie	11	24	1	2	12	26
Rock Bass	1	1	1	0	2	1
Ninespine Stickleback	1	1	0	0	1	1
Brook Stickleback	1	1	0	0	1	1
Brown Bullhead	2	505	1	388	3	893
Mottled Sculpin	5	16	0	0	5	16
Bluntnose Minnow	0	0	2	1	2	1
Emerald Shiner	4	3	2	1	6	4
Spottail Shiner	23	69	25	98	48	167
Mimic Shiner	1	0	15	3	16	3
TOTAL	142	2953	180	1175	322	4128

Gear : Trawl
Date : 11/07/83
Station : V

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	9	7840	2	146	11	7986
Yellow Perch	7	19	2	124	9	143
Johnny Darter	10	6	2	1	12	7
Northern Pike	1	417	0	0	1	417
White Sucker	1	638	0	0	1	638
Trout-perch	0	0	8	29	8	29
Brook Stickleback	1	1	0	0	1	1
Mottled Sculpin	2	2	0	0	2	2
Emerald Shiner	0	0	4	5	4	5
Spottail Shiner	0	0	1	1	1	1
Mimic Shiner	0	0	1	1	1	1
TOTAL	31	8922	20	306	51	9229

Gear : Trawl
Date : 05/18/83
Station : VI

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	27	1321	27	1321
Yellow Perch	0	0	9	247	9	247
Johnny Darter	9	33	8	31	17	63
Logperch	1	10	0	0	1	10
Burbot	1	288	0	0	1	288
Rainbow Smelt	1	16	0	0	1	16
White Sucker	1	28	6	1494	7	1522
Lake Herring	1	148	0	0	1	148
Trout-perch	51	351	234	1227	285	1578
Mottled Sculpin	2	12	0	0	2	12
Emerald Shiner	3	22	0	0	3	22
Spottail Shiner	5	28	20	120	25	148
TOTAL	75	936	304	4440	379	5375

Gear : Trawl
Date : 06/21/83
Station : VI

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	2	34	0	0	2	34
Johnny Darter	2	2	2	2	4	4
Logperch	2	4	2	12	4	16
Northern Pike	1	990	1	1350	2	2340
White Sucker	7	4662	13	2389	20	7050
Trout-perch	193	1100	256	1190	449	2290
Mottled Sculpin	1	3	1	1	2	4
Spottail Shiner	100	641	21	163	121	804
Mimic Shiner	0	0	1	2	1	2
TOTAL	308	7435	297	5108	605	12543

Gear : Trawl
Date : 07/22/83
Station : VI

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	3	458	3	371	6	829
Johnny Darter	38	22	4	3	42	25
Logperch	3	11	2	12	5	23
Northern Pike	1	290	0	0	1	290
White Sucker	9	600	5	744	14	1344
Trout-perch	430	1240	71	292	501	1532
Rock Bass	2	686	0	0	2	686
Brook Stickleback	1	0	0	0	1	0
Mottled Sculpin	3	8	0	0	3	8
Spottail Shiner	168	960	24	108	192	1068
Mimic Shiner	9	10	5	5	14	15
TOTAL	667	4295	114	1535	781	5830

Gear : Trawl
Date : 08/15/83
Station : VI

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	3	482	3	482
Yellow Perch	10	75	0	0	10	75
Johnny Darter	5	3	46	15	51	18
Logperch	2	2	1	1	3	3
White Sucker	17	1053	6	1215	23	2268
Trout-perch	176	222	235	650	411	872
Black Crappie	9	10	17	22	26	32
Bluegill	3	3	0	0	3	3
Rock Bass	33	24	0	0	33	24
Ninespine Stickleback	7	4	0	0	7	4
Brown Bullhead	0	0	1	188	1	188
Mottled Sculpin	2	8	0	0	2	8
Carp	1	0	0	0	1	0
Emerald Shiner	0	0	12	34	12	34
Spottail Shiner	276	146	81	170	357	316
Mimic Shiner	6	9	4	4	10	13
TOTAL	547	1559	406	2781	953	4340

Gear : Trawl
Date : 09/22/83
Station : VI

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	32	2	183	3	215
Yellow Perch	16	66	1	4	17	70
Johnny Darter	19	9	2	8	21	17
Logperch	13	48	6	20	19	68
Northern Pike	1	267	0	0	1	267
Rainbow Smelt	8	7	2	1	10	8
White Sucker	17	115	1	542	18	657
Trout-perch	134	356	137	661	271	1017
Black Crappie	8	24	1	1	9	25
Bluegill	1	2	0	0	1	2
Rock Bass	14	457	4	36	18	493
Ninespine Stickleback	8	6	1	1	9	7
Sizzard Shad	0	0	2	5	2	5
Mottled Sculpin	5	8	1	3	6	11
Bluntnose Minnow	4	2	1	1	5	3
Emerald Shiner	48	95	21	12	69	107
Spottail Shiner	52	132	23	28	75	160
Mimic Shiner	15	15	7	3	22	18
TOTAL	364	1690	212	1489	576	3179

Gear : Trawl
Date : 10/17/83
Station : VI

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	70	1	1500	2	1570
Yellow Perch	4	242	6	21	10	263
Johnny Darter	5	4	13	6	18	10
Logperch	0	0	1	1	1	1
Rainbow Smelt	3	3	0	0	3	3
White Sucker	7	865	5	829	12	1695
Trout-perch	140	436	96	272	236	708
Black Crappie	0	0	4	9	4	9
Rock Bass	2	3	3	65	5	68
Ninespine Stickleback	1	1	0	0	1	1
Brook Stickleback	0	0	1	1	1	1
Mottled Sculpin	2	2	1	1	3	3
Bluntnose Minnow	2	1	8	3	10	4
Emerald Shiner	0	0	26	22	26	22
Spottail Shiner	43	131	14	29	57	160
Mimic Shiner	12	13	11	6	23	19
TOTAL	222	1770	190	2766	412	4536

Gear : Trawl
Date : 11/07/83
Station : VI

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	1	290	1	290
Yellow Perch	3	10	0	0	3	10
Johnny Darter	19	8	4	1	23	10
Logperch	3	11	1	2	4	13
Rainbow Smelt	2	3	0	0	2	3
White Sucker	2	504	1	151	3	655
Trout-perch	6	15	25	49	31	64
Mottled Sculpin	1	4	0	0	1	4
Bluntnose Minnow	1	1	0	0	1	1
Emerald Shiner	2	10	1	1	3	11
Spottail Shiner	1	0	0	0	1	0
Mimic Shiner	4	1	5	2	9	3
TOTAL	44	566	38	496	82	1062

Gear : Trawl
Date : 05/18/83
Station : VII

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	3	370	2	15	5	384
Yellow Perch	13	215	3	132	16	347
Johnny Darter	10	19	2	2	12	21
Northern Pike	1	674	0	0	1	674
Rainbow Smelt	14	52	0	0	14	52
White Sucker	4	508	1	422	5	930
Trout-perch	501	2101	18	99	519	2200
Rock Bass	1	48	0	0	1	48
Mottled Sculpin	1	4	1	9	2	12
Emerald Shiner	3	19	0	0	3	19
Spottail Shiner	41	219	14	45	55	264
Mimic Shiner	7	28	1	4	8	32
TOTAL	599	4257	42	728	641	4985

Gear : Trawl
Date : 06/21/83
Station : VII

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	1	816	1	816
Yellow Perch	0	0	19	225	19	225
Johnny Darter	0	0	3	3	3	3
Northern Pike	0	0	1	51	1	51
Rainbow Smelt	2	4	0	0	2	4
White Sucker	0	0	3	196	3	196
Trout-perch	1	1	37	130	38	131
Mottled Sculpin	1	5	0	0	1	5
Spottail Shiner	0	0	73	250	73	250
TOTAL	4	10	137	1670	141	1680

Gear : Trawl
Date : 07/21/93
Station : VII

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	3	70	3	70
Yellow Perch	14	428	2	35	16	463
Johnny Darter	19	6	10	4	29	10
Logperch	0	0	7	40	7	40
Northern Pike	1	310	1	565	2	875
Rainbow Smelt	24	2	0	0	24	2
White Sucker	2	445	8	97	10	542
Trout-perch	146	295	80	248	226	543
Rock Bass	0	0	2	368	2	368
Brown Bullhead	0	0	1	420	1	420
Alewife	2	22	0	0	2	22
Mottled Sculpin	0	0	5	19	5	19
Bluntnose Minnow	0	0	1	2	1	2
Spottail Shiner	60	386	45	230	105	616
Mimic Shiner	3	6	11	11	14	17
TOTAL	271	1900	176	2108	447	4008

Gear : Trawl
Date : 08/15/83
Station : VII

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	3	764	2	578	5	1342
Yellow Perch	15	514	5	87	20	602
Johnny Darter	32	9	63	14	95	23
Logperch	0	0	3	15	3	15
Northern Pike	3	261	0	0	3	261
Rainbow Smelt	2	1	0	0	2	1
White Sucker	36	1304	10	6	46	1310
Trout-perch	129	121	14	17	143	138
Black Crappie	8	14	22	38	30	52
Bluegill	31	21	84	44	115	65
Rock Bass	26	307	50	371	76	678
Smallmouth Bass	0	0	1	5	1	5
Ninespine Stickleback	2	1	0	0	2	1
Mottled Sculpin	3	2	13	30	16	32
Carp	2	1	2	1	4	2
Bluntnose Minnow	4	6	39	80	43	86
Spottail Shiner	882	407	352	182	1234	589
Mimic Shiner	14	17	85	108	99	125
TOTAL	1192	3750	745	1576	1937	5326

Gear : Trawl
Date : 09/22/83
Station : VII

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	730	0	0	1	730
Yellow Perch	5	139	6	147	11	286
Johnny Darter	1	1	4	2	5	3
Logperch	5	4	2	1	7	5
Northern Pike	3	913	0	0	3	913
Rainbow Smelt	4	1	3	1	7	2
White Sucker	9	1337	10	663	19	2000
Trout-perch	75	265	36	88	111	353
Black Crappie	29	79	13	54	42	133
Bluegill	13	16	13	11	26	27
Pumpkinseed	1	71	0	0	1	71
Rock Bass	14	859	25	2516	39	3374
Ninespine Stickleback	4	2	0	0	4	2
Brook Stickleback	1	1	1	1	2	1
Brown Bullhead	1	200	1	263	2	463
Gizzard Shad	1	11	0	0	1	11
Mottled Sculpin	2	1	3	3	5	4
Bluntnose Minnow	14	4	1	0	15	4
Emerald Shiner	38	116	26	67	64	183
Spottail Shiner	43	108	24	44	67	152
Mimic Shiner	4	5	2	2	6	7
TOTAL	268	4861	170	3363	438	8724

Gear : Trawl
Date : 10/17/83
Station : VII

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	17	130	20	324	37	454
Johnny Darter	12	4	16	5	28	9
Logperch	3	9	0	0	3	9
Northern Pike	0	0	3	612	3	612
Rainbow Smelt	5	5	4	3	9	9
White Sucker	6	17	4	13	10	30
Trout-perch	44	158	26	85	70	243
Black Crappie	6	15	5	16	11	31
Bluegill	4	4	5	5	9	9
Rock Bass	10	521	21	1092	31	1614
Ninespine Stickleback	1	1	1	1	2	1
Brook Stickleback	1	1	0	0	1	1
Brown Bullhead	1	266	6	2053	7	2319
Mottled Sculpin	7	6	5	10	12	16
Bluntnose Minnow	11	9	10	7	21	16
Emerald Shiner	28	68	11	48	39	116
Spottail Shiner	41	76	12	61	53	137
Mimic Shiner	0	0	2	2	2	2
Notropis sp.	5	0	0	0	5	0
TOTAL	202	1289	151	4338	353	5627

Gear : Trawl
Date : 11/07/83
Station : VII

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	53	1390	46	1100	99	2490
Johnny Darter	75	21	63	17	138	37
Logperch	0	0	1	11	1	11
Northern Pike	1	24	0	0	1	24
White Sucker	3	13	15	833	18	845
Trout-perch	45	142	48	90	93	232
Black Crappie	7	25	23	74	30	99
Pumpkinseed	0	0	1	2	1	2
Rock Bass	8	838	16	1000	24	1838
Ninespine Stickleback	1	1	1	1	2	2
Brook Stickleback	0	0	2	2	2	2
Brown Bullhead	1	301	1	7	2	308
Alewife	1	1	0	0	1	1
Mottled Sculpin	3	7	10	21	13	28
Bluntnose Minnow	67	39	92	79	159	118
Spottail Shiner	31	40	4	3	35	43
Mimic Shiner	52	28	32	15	84	43
TOTAL	348	2868	355	3254	703	6122

Appendix N. Catch records of fish collected with bottom gill nets in the St. Marys River during 1982 and 1983.

Gear : Gill Net
Date : 02/10/82
Station : I

	DEEP #		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
White Sucker	0	0	1	1190	1	1190
TOTAL	0	0	1	1190	1	1190

Gear : Gill Net
Date : 02/18/82
Station : I

	DEEP #		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
White Sucker	0	0	1	849	1	849
TOTAL	0	0	1	849	1	849

Gear : Gill Net
Date : 02/24/82
Station : I

	DEEP #		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
White Sucker	0	0	2	2460	2	2460
TOTAL	0	0	2	2460	2	2460

Gear : Gill Net
Date : 03/03/82
Station : I

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Northern Pike	1	0	1	0	2	0
White Sucker	0	0	3	2477	3	2477
Lake Herring	0	0	1	408	1	408
Lake Whitefish	0	0	1	1470	1	1470
TOTAL	1	0	6	4355	7	4355

Gear : Gill Net
Date : 03/10/82
Station : I

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Northern Pike	0	0	2	5960	2	5960
White Sucker	0	0	3	3130	3	3130
Lake Whitefish	1	321	0	0	1	321
TOTAL	1	321	5	9090	6	9411

Gear : Gill Net
Date : 03/17/82
Station : I

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Northern Pike	0	0	1	0	1	0
White Sucker	0	0	4	3671	4	3671
Lake Whitefish	1	259	0	0	1	259
TOTAL	1	259	5	3671	6	3930

Gear : Gill Net
Date : 03/22/82
Station : I

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
White Sucker	0	0	6	6460	6	6460
TOTAL	0	0	6	6460	6	6460

Gear : Gill Net
Date : 06/22/82
Station : I

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Northern Pike	0	0	1	2000	1	2000
White Sucker	1	750	5	4164	6	4914
Lake Herring	0	0	1	740	1	740
Lake Whitefish	1	128	1	128	2	256
Round Whitefish	1	220	1	196	2	416
TOTAL	3	1098	9	7228	12	8326

Gear : Gill Net
Date : 07/08/82
Station : I

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	4	776	4	776
Northern Pike	0	0	1	2300	1	2300
White Sucker	4	2824	6	3814	10	6638
Lake Herring	0	0	1	420	1	420
Lake Whitefish	0	0	1	504	1	504
Trout-perch	0	0	2	26	2	26
Spottail Shiner	0	0	1	8	1	8
TOTAL	4	2824	16	7848	20	10672

Gear : Gill Net
Date : 08/04/82
Station : I

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Northern Pike	1	2060	2	4040	3	6100
White Sucker	0	0	3	3226	3	3226
Silver Redhorse	1	1000	0	0	1	1000
Lake Whitefish	0	0	2	1438	2	1438
Round Whitefish	0	0	2	476	2	476
TOTAL	2	3060	9	9190	11	12250

Gear : Gill Net
Date : 08/24/82
Station : I

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Northern Pike	1	2360	2	2700	3	5060
White Sucker	0	0	3	2900	3	2900
Lake Herring	0	0	1	380	1	380
Lake Whitefish	0	0	2	1315	2	1315
Spottail Shiner	0	0	1	14	1	14
TOTAL	1	2360	9	7309	10	9669

Gear : Gill Net
Date : 09/21/82
Station : I

Species	DEEP Number	DEEP Weight(g)	SHALLOW Number	SHALLOW Weight(g)	COMBINED Number	COMBINED Weight(g)
Yellow Perch	0	0	2	260	2	260
Northern Pike	0	0	1	1500	1	1500
Rainbow Smelt	1	17	0	0	1	17
White Sucker	1	262	6	5440	7	5702
Silver Redhorse	1	1100	0	0	1	1100
Lake Whitefish	0	0	2	1020	2	1020
Round Whitefish	0	0	1	15	1	15
TOTAL	3	1379	12	8235	15	9614

Gear : Gill Net
Date : 10/12/82
Station : I

Species	DEEP Number	DEEP Weight(g)	SHALLOW Number	SHALLOW Weight(g)	COMBINED Number	COMBINED Weight(g)
Northern Pike	0	0	2	5500	2	5500
Rainbow Smelt	0	0	1	21	1	21
White Sucker	0	0	2	1850	2	1850
Lake Whitefish	1	114	5	2356	6	2470
TOTAL	1	114	10	9727	11	9841

Gear : Gill Net
Date : 11/17/82
Station : I

Species	DEEP Number	DEEP Weight(g)	SHALLOW Number	SHALLOW Weight(g)	COMBINED Number	COMBINED Weight(g)
Northern Pike	0	0	1	2550	1	2550
White Sucker	1	380	2	2150	3	2530
Lake Herring	0	0	1	133	1	133
Lake Whitefish	2	2125	0	0	2	2125
TOTAL	3	2505	4	4833	7	7338

Gear : Gill Net
Date : 02/02/82
Station : II

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	4	2136	0	0	4	2136
Burbot	1	1520	0	0	1	1520
White Sucker	5	5084	6	6110	11	11194
Lake Herring	11	6682	0	0	11	6682
TOTAL	21	15422	6	6110	27	21532

Gear : Gill Net
Date : 02/10/82
Station : II

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	716	0	0	1	716
Yellow Perch	1	12	0	0	1	12
Northern Pike	1	1740	1	1400	2	3140
Burbot	0	0	1	2080	1	2080
White Sucker	3	3302	4	3264	7	6566
Lake Herring	13	7748	12	7510	25	15258
Mottled Sculpin	0	0	1	10	1	10
TOTAL	19	13518	19	14264	38	27782

Gear : Gill Net
Date : 02/18/82
Station : II

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	148	0	0	1	148
Northern Pike	1	0	1	1190	2	1190
Burbot	0	0	1	1220	1	1220
White Sucker	5	5141	4	4711	9	9852
Lake Herring	12	8215	3	1832	15	10047
TOTAL	19	13504	9	8953	28	22457

Gear : Gill Net
Date : 02/24/82
Station : II

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Northern Pike	1	0	2	2580	3	2580
Rainbow Smelt	1	29	0	0	1	29
Longnose Sucker	1	1110	0	0	1	1110
White Sucker	3	2965	6	5691	9	8656
Lake Herring	8	4958	5	2702	13	7660
TOTAL	14	9062	13	10973	27	20035

Gear : Gill Net
Date : 03/03/82
Station : II

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Burbot	0	0	1	0	1	0
White Sucker	1	1010	7	6489	8	7499
Lake Herring	11	7469	3	1951	14	9440
Lake Whitefish	1	1430	0	0	1	1430
TOTAL	13	9929	11	8440	24	18369

Gear : Gill Net
Date : 03/10/82
Station : II

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	1	639	1	639
Yellow Perch	1	401	0	0	1	401
Northern Pike	1	0	1	1200	2	1200
Burbot	0	0	1	1670	1	1670
White Sucker	2	2251	6	5574	8	7825
Lake Herring	14	8740	6	4000	20	12740
TOTAL	18	11392	15	13183	33	24575

Gear : Gill Net
Date : 03/17/82
Station : II

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	926	2	1980	3	2906
Yellow Perch	0	0	1	10	1	10
Burbot	0	0	1	636	1	636
White Sucker	1	1230	8	7533	9	8763
Lake Herring	25	16710	12	8640	37	25350
Lake Whitefish	0	0	1	1530	1	1530
TOTAL	27	18866	25	20329	52	39195

Gear : Gill Net
Date : 03/23/82
Station : II

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	0	0	0	1	0
White Sucker	2	2360	8	8025	10	10385
Lake Herring	56	39018	33	22869	89	61887
TOTAL	59	41378	41	30894	100	72272

Gear : Gill Net
Date : 05/05/82
Station : II

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	3	1629	3	1629
Northern Pike	1	1540	3	2112	4	3652
Rainbow Smelt	3	58	1	19	4	77
Longnose Sucker	0	0	1	1030	1	1030
White Sucker	3	2468	12	10238	15	12706
Lake Herring	2	1035	6	3883	8	4918
TOTAL	9	5101	26	18911	35	24012

Gear : Gill Net
Date : 06/10/82
Station : II

Species	DEEP Number	DEEP Weight(g)	SHALLOW Number	SHALLOW Weight(g)	COMBINED Number	COMBINED Weight(g)
Walleye	3	3110	8	8022	11	11132
Yellow Perch	1	333	6	1887	7	2220
Northern Pike	4	3199	1	568	5	3767
White Sucker	14	13822	11	10523	25	24345
Lake Trout	1	2000	0	0	1	2000
Lake Herring	2	1591	0	0	2	1591
Trout-perch	1	16	0	0	1	16
Rock Bass	3	1525	2	628	5	2153
TOTAL	29	25586	28	21638	57	47224

Gear : Gill Net
Date : 07/06/82
Station : II

Species	DEEP Number	DEEP Weight(g)	SHALLOW Number	SHALLOW Weight(g)	COMBINED Number	COMBINED Weight(g)
Walleye	2	1214	5	4914	7	6128
Yellow Perch	3	924	4	1200	7	2124
Northern Pike	0	0	4	2460	4	2460
Rainbow Smelt	0	0	1	21	1	21
White Sucker	8	5476	15	14830	23	20306
Lake Herring	4	3586	17	11432	21	15018
Trout-perch	0	0	4	50	4	50
Rock Bass	1	500	1	174	2	674
Spottail Shiner	0	0	1	10	1	10
TOTAL	18	11700	52	35091	70	46791

Gear : Gill Net
Date : 08/02/82
Station : II

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	3	960	3	960
Yellow Perch	2	765	3	690	5	1455
Northern Pike	2	1235	0	0	2	1235
Golden Redhorse	0	0	1	1821	1	1821
Shorthead Redhorse	0	0	1	1010	1	1010
White Sucker	7	6660	8	6599	15	13259
Lake Herring	4	2700	2	1730	6	4430
Rock Bass	0	0	5	1643	5	1643
Smallmouth Bass	0	0	5	2825	5	2825
Brown Bullhead	2	580	2	639	4	1219
Alewife	1	15	0	0	1	15
Carp	0	0	1	5790	1	5790
TOTAL	18	11555	31	23716	49	35271

Gear : Gill Net
Date : 08/26/82
Station : II

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	250	0	0	1	250
Yellow Perch	2	1100	5	2350	7	3450
Northern Pike	2	1700	1	250	3	1950
White Sucker	9	7472	7	4752	16	12224
Rock Bass	1	300	2	750	3	1050
Channel Catfish	0	0	2	2300	2	2300
TOTAL	15	10822	17	10402	32	21224

Gear : Gill Net
Date : 09/20/82
Station : II

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	2100	0	0	1	2100
Yellow Perch	1	500	3	1212	4	1712
Northern Pike	0	0	2	6600	2	6600
Shorthead Redhorse	1	1600	0	0	1	1600
White Sucker	2	2710	3	2170	5	4880
Lake Herring	0	0	1	290	1	290
Coho Salmon	1	1440	0	0	1	1440
Pumpkinseed	0	0	1	120	1	120
Channel Catfish	0	0	1	950	1	950
TOTAL	6	9350	11	11342	17	19692

Gear : Gill Net
Date : 10/06/82
Station : II

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	2	1176	3	1684	5	2860
Northern Pike	4	2052	1	1754	5	3806
White Sucker	3	3236	5	3892	8	7128
Lake Herring	2	2444	2	1506	4	3950
TOTAL	11	8908	11	8836	22	17744

Gear : Gill Net
Date : 11/03/82
Station : II

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	600	1	700	2	1300
Northern Pike	2	2895	0	0	2	2895
White Sucker	1	802	8	8682	9	9484
Lake Herring	60	32629	72	36279	132	68899
Brown Bullhead	0	0	1	228	1	228
TOTAL	64	36926	82	45888	146	82814

Gear : Gill Net
Date : 02/01/82
Station : III

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	4	1208	4	1208
Northern Pike	0	0	3	3032	3	3032
Longnose Sucker	1	939	0	0	1	939
White Sucker	3	3842	38	31419	41	34061
Lake Herring	2	1112	6	2582	8	3694
TOTAL	6	4893	51	38241	57	42934

Gear : Gill Net
Date : 02/10/82
Station : III

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	5	1242	5	1242
White Sucker	5	5330	10	7182	15	12512
Lake Herring	0	0	2	1404	2	1404
TOTAL	5	5330	17	9828	22	15158

Gear : Gill Net
Date : 02/19/82
Station : III

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	3	1504	3	1504
Northern Pike	3	3238	1	0	4	3238
Burbot	0	0	1	2840	1	2840
Rainbow Smelt	1	32	0	0	1	32
White Sucker	1	1200	10	9758	11	10958
Lake Herring	0	0	1	126	1	126
TOTAL	5	4520	16	14228	21	18748

Gear : Gill Net
Date : 02/24/82
Station : III

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	2	251	2	251
Northern Pike	0	0	2	1410	2	1410
White Sucker	2	2288	19	15082	21	17370
TOTAL	2	2288	23	16743	25	19031

Gear : Gill Net
Date : 03/03/82
Station : III

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	648	3	1308	4	1956
Northern Pike	0	0	2	2173	2	2173
White Sucker	3	2936	9	9113	12	12049
Lake Herring	1	597	0	0	1	597
Lake Whitefish	1	2630	0	0	1	2630
TOTAL	6	6811	14	12594	20	19405

Gear : Gill Net
Date : 03/10/82
Station : III

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	4	557	4	557
Northern Pike	0	0	3	0	3	0
Rainbow Smelt	1	19	0	0	1	19
White Sucker	2	2260	1	735	3	2995
Lake Herring	2	1203	2	1392	4	2595
TOTAL	5	3482	10	2684	15	6166

Gear : Gill Net
Date : 03/17/82
Station : III

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	2	400	2	400
Northern Pike	1	1120	0	0	1	1120
Rainbow Smelt	4	82	2	45	6	127
White Sucker	1	1145	2	2042	3	3187
Lake Herring	1	241	7	1670	8	4688
TOTAL	7	2588	13	6934	20	9522

Gear : Gill Net
Date : 03/23/82
Station : III

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Northern Pike	2	3280	3	3850	5	7130
Rainbow Smelt	2	40	0	0	2	40
White Sucker	2	1852	5	4482	7	6334
Lake Herring	3	1522	9	4834	12	6356
TOTAL	9	6694	17	13166	26	19860

Gear : Gill Net
Date : 05/17/82
Station : III

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	1	70	1	70
Northern Pike	1	980	0	0	1	980
White Sucker	1	860	4	3618	5	4478
Lake Herring	1	840	1	874	2	1714
TOTAL	3	2680	6	4562	9	7242

Gear : Gill Net
Date : 06/10/82
Station : III

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	241	3	770	4	1011
Northern Pike	2	2242	0	0	2	2242
Rainbow Smelt	13	272	1	28	14	300
Shorthead Redhorse	0	0	1	2240	1	2240
White Sucker	7	5730	6	4362	13	10092
Lake Herring	29	15044	55	26946	84	41990
Trout-perch	0	0	1	12	1	12
Rock Bass	0	0	1	90	1	90
TOTAL	52	23529	68	34448	120	57977

Gear : Gill Net
Date : 07/06/82
Station : III

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	1	400	1	400
Yellow Perch	4	835	9	1370	13	2205
Northern Pike	2	2500	0	0	2	2500
White Sucker	5	3482	8	5632	13	9114
Lake Herring	10	5682	3	1498	13	7180
Trout-perch	1	5	1	10	2	15
TOTAL	22	12504	22	8910	44	21414

Gear : Gill Net
Date : 08/22/82
Station : III

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	6	1067	12	2427	18	3494
Northern Pike	7	3900	3	2784	10	6684
White Sucker	6	5430	2	1702	8	7132
Lake Herring	0	0	10	5434	10	5434
Trout-perch	0	0	1	13	1	13
Rock Bass	3	930	2	493	5	1423
Carp	0	0	1	4000	1	4000
Spottail Shiner	0	0	1	13	1	13
TOTAL	22	11327	32	16866	54	28193

Gear : Gill Net
Date : 08/30/82
Station : III

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	2	640	5	910	7	1550
Northern Pike	1	800	3	2500	4	3300
White Sucker	2	2100	7	7248	9	9348
TOTAL	5	3540	15	10658	20	14198

Gear : Gill Net
Date : 09/09/82
Station : III

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	1	850	1	850
Yellow Perch	5	719	10	2705	15	3424
Northern Pike	1	880	1	850	2	1730
White Sucker	7	4960	8	6700	15	11660
Lake Herring	0	0	1	240	1	240
TOTAL	13	6559	21	11345	34	17904

Gear : Gill Net
Date : 10/19/82
Station : III

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	110	0	0	1	110
Northern Pike	0	0	1	1670	1	1670
White Sucker	4	4068	11	9446	15	13514
Lake Herring	6	2482	12	5622	18	8104
Carp	1	4500	0	0	1	4500
TOTAL	12	11160	24	16738	36	27898

Gear : Gill Net
Date : 11/08/82
Station : III

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	540	2	800	3	1340
Northern Pike	1	730	1	1800	2	2530
White Sucker	3	2092	4	3670	7	5762
Lake Herring	51	23343	67	27993	118	51336
Lake Whitefish	0	0	1	1540	1	1540
TOTAL	56	26705	75	35803	131	62508

Gear : Sill Net
Date : 02/01/82
Station : IV

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Northern Pike	0	0	2	2660	2	2660
Rainbow Smelt	0	0	1	21	1	21
White Sucker	0	0	1	643	1	643
Lake Herring	0	0	1	399	1	399
TOTAL	0	0	5	3723	5	3723

Gear : Sill Net
Date : 02/10/82
Station : IV

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	3	464	3	436	6	900
Northern Pike	2	1322	3	1558	5	2880
White Sucker	2	1272	0	0	2	1272
Lake Herring	1	112	1	404	2	516
TOTAL	8	3170	7	2398	15	5568

Gear : Sill Net
Date : 02/18/82
Station : IV

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	16	2	174	3	190
Northern Pike	1	0	5	0	6	0
Burbot	0	0	1	612	1	612
White Sucker	2	1590	2	1874	4	3464
Lake Herring	0	0	1	335	1	335
Lake Whitefish	0	0	2	2090	2	2090
TOTAL	4	1606	13	5085	17	6691

Gear : Gill Net
Date : 02/24/82
Station : IV

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	133	0	0	1	133
Northern Pike	0	0	5	4689	5	4689
Burbot	1	1250	2	2539	3	3789
White Sucker	0	0	2	1879	2	1879
Lake Herring	0	0	2	237	2	237
TOTAL	2	1383	11	9344	13	10727

Gear : Gill Net
Date : 03/03/82
Station : IV

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	0	0	0	1	0
Yellow Perch	2	22	2	233	4	255
Northern Pike	0	0	3	0	3	0
Burbot	0	0	1	1260	1	1260
White Sucker	2	2108	2	1954	4	4062
Lake Herring	1	367	1	764	2	1131
TOTAL	6	2497	9	4211	15	6708

Gear : Gill Net
Date : 03/10/82
Station : IV

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	2	17	2	17
Northern Pike	1	920	3	0	4	920
Rainbow Smelt	1	13	3	62	4	75
Lake Herring	0	0	1	22	1	22
Spottail Shiner	0	0	1	11	1	11
TOTAL	2	933	10	112	12	1045

Gear : Gill Net
Date : 03/17/82
Station : IV

Species	DEEP Number	DEEP Weight(g)	SHALLOW Number	SHALLOW Weight(g)	COMBINED Number	COMBINED Weight(g)
Northern Pike	3	0	2	0	5	0
Burbot	0	0	1	1445	1	1445
Rainbow Smelt	6	132	1	20	7	152
White Sucker	1	819	0	0	1	819
TOTAL	10	951	4	1465	14	2416

Gear : Gill Net
Date : 03/23/82
Station : IV

Species	DEEP Number	DEEP Weight(g)	SHALLOW Number	SHALLOW Weight(g)	COMBINED Number	COMBINED Weight(g)
Yellow Perch	0	0	1	424	1	424
Northern Pike	1	710	3	2456	4	3166
Burbot	0	0	3	3574	3	3574
Lake Whitefish	1	470	0	0	1	470
TOTAL	2	1180	7	6454	9	7634

Gear : Gill Net
Date : 05/10/82
Station : IV

Species	DEEP Number	DEEP Weight(g)	SHALLOW Number	SHALLOW Weight(g)	COMBINED Number	COMBINED Weight(g)
Yellow Perch	1	74	1	282	2	356
Northern Pike	1	2435	9	9891	10	12326
Burbot	3	4615	0	0	3	4615
Rainbow Smelt	2	33	2	40	4	73
White Sucker	4	2601	9	7409	13	10010
Lake Herring	0	0	1	732	1	732
TOTAL	11	9758	22	18354	33	28112

Gear : Gill Net
Date : 06/10/82
Station : IV

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	1	1240	1	1240
Yellow Perch	0	0	10	1568	10	1568
Northern Pike	5	4383	9	10117	14	14480
Rainbow Smelt	2	42	0	0	2	42
Shorthead Redhorse	0	0	1	2670	1	2670
White Sucker	0	0	9	8768	9	8768
Lake Herring	7	4142	3	1767	10	5909
Rock Bass	0	0	1	43	1	43
Spottail Shiner	1	17	1	18	2	35
TOTAL	15	8564	35	26191	50	34755

Gear : Gill Net
Date : 07/06/82
Station : IV

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	550	0	0	1	550
Yellow Perch	0	0	27	3731	27	3731
Northern Pike	7	6364	4	2480	11	8844
White Sucker	3	2522	7	0	10	2522
Lake Herring	1	208	3	1014	4	1222
Trout-perch	0	0	1	15	1	15
Rock Bass	0	0	2	850	2	850
Smallmouth Bass	1	174	0	0	1	174
Spottail Shiner	0	0	1	13	1	13
TOTAL	13	9818	45	8103	58	17921

Gear : Gill Net
Date : 08/02/82
Station : IV

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	8	1696	17	2224	25	3920
Northern Pike	1	1300	2	1143	3	2443
Shorthead Redhorse	1	1290	0	0	1	1290
White Sucker	3	2610	6	4724	9	7334
Lake Herring	7	3625	0	0	7	3625
Rock Bass	0	0	6	648	6	648
Brown Bullhead	0	0	1	436	1	436
TOTAL	20	10521	32	9175	52	19696

Gear : Gill Net
Date : 08/30/82
Station : IV

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	800	3	1682	4	2482
Yellow Perch	9	2132	6	1304	15	3436
Northern Pike	2	1558	5	2722	7	4280
White Sucker	2	1920	2	700	4	2620
Silver Redhorse	1	3200	0	0	1	3200
Lake Herring	2	1133	1	584	3	1717
Rock Bass	8	2214	7	1420	15	3634
Smallmouth Bass	1	420	0	0	1	420
Brown Bullhead	1	520	0	0	1	520
TOTAL	27	13897	24	8412	51	22309

Gear : Sill Net
Date : 09/09/82
Station : IV

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	710	1	250	2	960
Yellow Perch	1	20	2	600	3	620
Northern Pike	3	1840	2	3580	5	5420
Shorthead Redhorse	0	0	1	1280	1	1280
White Sucker	3	1710	0	0	3	1710
Lake Herring	1	385	1	1080	2	1465
Lake Whitefish	2	2500	0	0	2	2500
Rock Bass	9	1520	12	2519	21	4039
Channel Catfish	2	2050	0	0	2	2050
Alewife	0	0	1	10	1	10
TOTAL	22	10735	20	9319	42	20054

Gear : Sill Net
Date : 10/19/82
Station : IV

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	2	1276	2	1276
Yellow Perch	2	662	1	234	3	896
Northern Pike	2	3584	6	3511	8	7095
Burbot	0	0	1	1320	1	1320
Longnose Sucker	0	0	1	640	1	640
White Sucker	1	910	4	3804	5	4714
Silver Redhorse	1	2600	0	0	1	2600
Lake Herring	2	838	2	710	4	1548
Rock Bass	0	0	2	468	2	468
TOTAL	8	8594	19	11963	27	20557

Gear : Bill Net
Date : 11/08/82
Station : IV

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	1	3000	1	3000
Yellow Perch	1	252	2	700	3	952
Northern Pike	2	1704	3	5940	5	7644
White Sucker	1	792	3	3202	4	3994
Lake Herring	9	3922	7	2888	16	6810
Rock Bass	0	0	1	252	1	252
TOTAL	13	6670	17	15982	30	22652

Gear : Gill Net
Date : 01/27/82
Station : V

Species	DEEP Number	DEEP Weight(g)	SHALLOW Number	SHALLOW Weight(g)	COMBINED Number	COMBINED Weight(g)
Walleye	0	0	2	1336	2	1336
Lake Sturgeon	1	0	0	0	1	0
Northern Pike	1	1820	2	2330	3	4150
Lake Herring	4	1086	0	0	4	1086
TOTAL	6	2906	4	3666	10	6572

Gear : Gill Net
Date : 02/04/82
Station : V

Species	DEEP Number	DEEP Weight(g)	SHALLOW Number	SHALLOW Weight(g)	COMBINED Number	COMBINED Weight(g)
Walleye	0	0	2	4800	2	4800
Burbot	0	0	1	578	1	578
Lake Herring	3	519	1	488	4	1006
TOTAL	3	519	4	5866	7	6384

Gear : Gill Net
Date : 02/08/82
Station : V

Species	DEEP Number	DEEP Weight(g)	SHALLOW Number	SHALLOW Weight(g)	COMBINED Number	COMBINED Weight(g)
Walleye	2	4272	2	422	4	4694
Northern Pike	1	742	0	0	1	742
White Sucker	0	0	1	730	1	730
Lake Herring	6	2592	5	1228	11	3820
TOTAL	9	7606	8	2380	17	9986

Gear : Gill Net
Date : 02/16/82
Station : V

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	0	14	0	15	0
Lake Sturgeon	1	0	0	0	1	0
White Sucker	0	0	1	116	1	116
Lake Herring	4	830	1	338	5	1168
Lake Whitefish	1	690	0	0	1	690
TOTAL	7	1520	16	454	23	1974

Gear : Gill Net
Date : 02/22/82
Station : V

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	2	1059	2	1059
Lake Sturgeon	1	0	0	0	1	0
Northern Pike	1	0	3	0	4	0
White Sucker	0	0	1	710	1	710
Lake Herring	12	2785	1	319	13	3104
TOTAL	14	2785	7	2088	21	4873

Gear : Gill Net
Date : 03/01/82
Station : V

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	4	0	1	790	5	790
Lake Sturgeon	2	0	0	0	2	0
Northern Pike	2	2240	0	0	2	2240
Burbot	1	0	0	0	1	0
Lake Herring	7	2158	1	260	8	2418
TOTAL	16	4398	2	1050	18	5448

Gear : Gill Net
Date : 03/08/82
Station : V

Species	DEEP Number	DEEP Weight(g)	SHALLOW Number	SHALLOW Weight(g)	COMBINED Number	COMBINED Weight(g)
Walleye	7	0	1	541	8	541
Sauger	2	420	0	0	2	420
Northern Pike	1	0	2	0	3	0
Lake Herring	5	1443	1	701	6	2144
Lake Whitefish	0	0	1	998	1	998
TOTAL	15	1863	5	2240	20	4103

Gear : Gill Net
Date : 03/15/82
Station : V

Species	DEEP Number	DEEP Weight(g)	SHALLOW Number	SHALLOW Weight(g)	COMBINED Number	COMBINED Weight(g)
Walleye	2	0	2	636	4	636
Lake Sturgeon	1	0	0	0	1	0
Northern Pike	1	2160	1	454	2	2614
Rainbow Smelt	1	0	0	0	1	0
Lake Herring	8	1676	0	0	8	1676
TOTAL	13	3836	3	1090	16	4926

Gear : Gill Net
Date : 05/07/82
Station : V

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	3	994	18	0	21	994
Yellow Perch	1	135	1	92	2	227
Northern Pike	1	1510	3	3660	4	5170
Rainbow Smelt	8	157	2	50	10	207
White Sucker	4	3327	4	3974	8	7301
Lake Herring	23	4104	17	6443	40	10547
Lake Whitefish	1	320	0	0	1	320
TOTAL	41	10547	45	14219	86	24766

Gear : Gill Net
Date : 05/26/82
Station : V

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	6	1473	3	0	9	1473
Yellow Perch	1	74	0	0	1	74
Northern Pike	1	1150	2	1190	3	2340
White Sucker	4	2996	2	1990	6	4986
Lake Herring	7	2406	0	0	7	2406
Spottail Shiner	1	18	0	0	1	18
TOTAL	20	8117	7	3180	27	11297

Gear : Gill Net
Date : 06/08/82
Station : V

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	3	1370	15	8170	18	9540
Yellow Perch	5	404	6	956	11	1360
Lake Sturgeon	1	0	0	0	1	0
Northern Pike	6	5104	5	3844	11	8948
White Sucker	8	6444	2	846	10	7290
Lake Herring	1	360	1	117	2	477
Trout-perch	1	10	0	0	1	10
Rock Bass	1	160	1	168	2	328
Carp	0	0	2	0	2	0
Spottail Shiner	2	21	4	40	6	62
TOTAL	28	13873	36	14141	64	28015

Gear : Gill Net
Date : 06/22/82
Station : V

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	2	2150	26	13045	28	15195
Yellow Perch	0	0	1	122	1	122
Northern Pike	2	1412	0	0	2	1412
Rainbow Smelt	2	43	0	0	2	43
Longnose Sucker	1	876	0	0	1	876
White Sucker	3	2492	2	1215	5	3707
Lake Herring	8	2192	0	0	8	2192
Rock Bass	0	0	2	412	2	412
Carp	0	0	3	9280	3	9280
TOTAL	18	9165	34	24074	52	33239

Gear : Gill Net
Date : 07/21/82
Station : V

Species	DEEP Number	DEEP Weight(g)	SHALLOW Number	SHALLOW Weight(g)	COMBINED Number	COMBINED Weight(g)
Walleye	0	0	4	0	4	0
Yellow Perch	0	0	1	84	1	84
Northern Pike	2	3640	1	476	3	4116
White Sucker	3	2904	3	1940	6	4344
Lake Herring	1	164	0	0	1	164
Brown Bullhead	0	0	1	540	1	540
TOTAL	6	6708	10	3040	16	9748

Gear : Gill Net
Date : 08/13/82
Station : V

Species	DEEP Number	DEEP Weight(g)	SHALLOW Number	SHALLOW Weight(g)	COMBINED Number	COMBINED Weight(g)
Walleye	1	256	8	4674	9	4930
Northern Pike	0	0	2	1624	2	1624
White Sucker	6	3268	9	4468	15	7736
Lake Trout	1	1440	0	0	1	1440
Rock Bass	0	0	8	1981	8	1981
Channel Catfish	0	0	1	760	1	760
TOTAL	8	4964	28	13507	36	18471

Gear : Gill Net
Date : 08/25/82
Station : V

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	322	5	5649	6	5971
Yellow Perch	0	0	1	12	1	12
Northern Pike	2	1752	2	591	4	2343
White Sucker	5	1846	0	0	5	1846
Lake Herring	1	259	1	14	2	273
Rock Bass	0	0	4	901	4	901
Alewife	0	0	2	27	2	27
TOTAL	9	4179	15	7193	24	11372

Gear : Gill Net
Date : 09/23/82
Station : V

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	98	3	3978	4	4076
Yellow Perch	0	0	1	204	1	204
White Sucker	1	382	3	1109	4	1491
Lake Herring	11	4084	5	2614	16	6698
Brown Bullhead	0	0	1	362	1	362
TOTAL	13	4564	13	8267	26	12831

Gear : Gill Net
Date : 10/06/82
Station : V

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	9	4596	4	788	13	5384
Yellow Perch	2	234	11	900	13	1134
Northern Pike	3	2358	0	0	3	2358
White Sucker	3	2270	0	0	3	2270
Lake Herring	45	19838	0	0	45	19838
Lake Whitefish	1	976	0	0	1	976
Trout-perch	0	0	1	16	1	16
Spottail Shiner	1	18	0	0	1	18
TOTAL	64	29290	16	1704	80	30994

Gear : Gill Net
Date : 10/19/82
Station : V

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	8	2396	14	5784	22	8180
Yellow Perch	0	0	2	360	2	360
Sauger	0	0	1	346	1	346
Northern Pike	2	584	6	5027	8	5611
Longnose Sucker	1	946	0	0	1	946
White Sucker	1	866	4	3670	5	4536
Lake Herring	99	45954	51	24020	150	69974
Lake Whitefish	1	1660	1	1400	2	3060
Trout-perch	1	12	0	0	1	12
Black Crappie	0	0	1	14	1	14
Spottail Shiner	1	10	1	22	2	32
TOTAL	114	52428	81	40643	195	93071

Gear : Gill Net
Date : 11/17/82
Station : V

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	2	717	1	640	3	1357
Sauger	1	376	0	0	1	376
Northern Pike	1	1200	0	0	1	1200
Longnose Sucker	1	730	0	0	1	730
White Sucker	0	0	1	730	1	730
Lake Herring	18	7815	62	27606	80	35421
Lake Whitefish	1	1100	0	0	1	1100
Trout-perch	1	14	0	0	1	14
TOTAL	25	11954	64	28976	89	40930

Gear : Gill Net
Date : 01/26/82
Station : VI

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Rainbow Smelt	0	0	1	20	1	20
Lake Herring	6	2288	5	1550	11	3838
TOTAL	6	2288	6	1570	12	3858

Gear : Gill Net
Date : 02/04/82
Station : VI

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	1	316	1	316
Northern Pike	0	0	1	880	1	880
Rainbow Smelt	0	0	1	18	1	18
Lake Herring	4	1310	1	410	5	1720
Trout-perch	1	8	0	0	1	8
TOTAL	5	1318	4	1624	9	2942

Gear : Gill Net
Date : 02/08/82
Station : VI

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Northern Pike	1	1020	0	0	1	1020
Burbot	1	2290	0	0	1	2290
White Sucker	0	0	1	340	1	340
Lake Herring	2	1066	2	800	4	1866
TOTAL	4	4366	3	1140	7	5506

Gear : Gill Net
Date : 02/16/82
Station : VI

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Northern Pike	2	1600	0	0	2	1600
Lake Herring	8	1208	1	460	9	1668
TOTAL	10	2808	1	460	11	3268

Gear : Gill Net
Date : 02/22/82
Station : VI

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Northern Pike	2	0	0	0	2	0
Longnose Gar	0	0	1	1650	1	1650
Lake Herring	1	240	4	1700	5	1940
TOTAL	3	240	5	3350	8	3590

Gear : Gill Net
Date : 03/01/82
Station : VI

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Northern Pike	0	0	3	0	3	0
Burbot	1	1450	0	0	1	1450
Lake Herring	1	230	12	2932	13	3162
TOTAL	2	1680	15	2932	17	4612

Gear : Gill Net
Date : 03/08/82
Station : VI

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Northern Pike	1	769	0	0	1	769
Rainbow Smelt	7	140	0	0	7	140
Lake Herring	0	0	2	401	2	401
TOTAL	8	909	2	401	10	1310

Gear : Gill Net
Date : 03/15/82
Station : VI

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Lake Sturgeon	1	0	0	0	1	0
Rainbow Smelt	1	20	1	18	2	38
Lake Herring	4	1012	0	0	4	1012
TOTAL	6	1032	1	18	7	1050

Gear : Gill Net
Date : 05/07/82
Station : VI

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	2	1714	14	0	16	1714
Yellow Perch	1	141	4	866	5	1007
Northern Pike	1	836	2	2320	3	3156
Rainbow Smelt	7	133	3	53	10	186
White Sucker	4	2897	1	1180	5	4077
Lake Herring	29	10246	53	13662	82	23908
Rainbow Trout	0	0	1	2510	1	2510
Rock Bass	0	0	1	248	1	248
Spottail Shiner	1	12	0	0	1	12
TOTAL	45	15979	79	20839	124	36818

Gear : Gill Net
Date : 05/26/82
Station : VI

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	9	0	9	0
Yellow Perch	0	0	3	359	3	359
Northern Pike	1	1690	3	3738	4	5428
Rainbow Smelt	4	92	0	0	4	92
White Sucker	2	1437	8	5504	10	6941
Lake Herring	2	612	22	8536	24	9148
TOTAL	9	3831	45	18137	54	21968

Gear : Gill Net
Date : 06/08/82
Station : VI

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	2	570	8	4358	10	4929
Yellow Perch	2	370	2	511	4	881
Northern Pike	7	8648	4	3332	11	11980
Rainbow Smelt	1	8	0	0	1	8
White Sucker	6	4388	7	7095	13	11483
Brown Bullhead	0	0	2	908	2	908
TOTAL	18	13984	23	16204	41	30187

Gear : Gill Net
Date : 06/22/82
Station : VI

Species	DEEP Number	DEEP Weight(g)	SHALLOW Number	SHALLOW Weight(g)	COMBINED Number	COMBINED Weight(g)
Walleye	2	432	2	750	4	1182
Yellow Perch	0	0	2	456	2	456
Northern Pike	3	3120	5	4770	8	7890
Rainbow Smelt	1	13	0	0	1	13
White Sucker	2	1850	3	2950	5	4830
Lake Herring	4	1480	0	0	4	1480
Trout-perch	0	0	2	30	2	30
Carp	0	0	6	26080	6	26080
Emerald Shiner	0	0	2	20	2	20
TOTAL	12	6925	22	35056	34	41981

Gear : Gill Net
Date : 07/21/82
Station : VI

Species	DEEP Number	DEEP Weight(g)	SHALLOW Number	SHALLOW Weight(g)	COMBINED Number	COMBINED Weight(g)
Walleye	1	143	3	0	4	143
Yellow Perch	1	10	2	848	3	858
Northern Pike	0	0	4	1890	4	1890
White Sucker	5	3891	2	1448	7	5339
Rock Bass	0	0	1	313	1	313
Brown Bullhead	0	0	2	690	2	690
Emerald Shiner	0	0	4	40	4	40
Spottail Shiner	1	12	0	0	1	12
TOTAL	8	4056	18	5229	26	9285

Gear : Gill Net
Date : 08/13/82
Station : VI

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	3	720	2	1462	5	2182
Northern Pike	0	0	5	3568	5	3568
White Sucker	3	1727	8	5444	11	7167
Lake Whitefish	1	1240	0	0	1	1240
Rock Bass	0	0	1	321	1	321
Channel Catfish	0	0	1	880	1	880
Brown Bullhead	0	0	2	963	2	963
TOTAL	7	3683	19	12638	26	16321

Gear : Gill Net
Date : 08/25/82
Station : VI

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	2	849	4	1190	6	2039
Yellow Perch	0	0	3	655	3	655
Northern Pike	0	0	4	2915	4	2915
White Sucker	0	0	2	1270	2	1270
Lake Herring	0	0	1	240	1	240
Rock Bass	0	0	3	994	3	994
Spottail Shiner	1	11	0	0	1	11
TOTAL	3	860	17	7264	20	8124

Gear : Gill Net
Date : 09/23/82
Station : VI

Species	DEEP Number	DEEP Weight(g)	SHALLOW Number	SHALLOW Weight(g)	COMBINED Number	COMBINED Weight(g)
Walleye	1	754	0	0	1	754
Sauger	1	224	0	0	1	224
Northern Pike	0	0	3	2618	3	2618
White Sucker	1	668	1	892	2	1560
Lake Herring	21	8715	0	0	21	8715
Spottail Shiner	0	0	1	18	1	18
TOTAL	24	10361	5	3528	29	13889

Gear : Gill Net
Date : 10/06/82
Station : VI

Species	DEEP Number	DEEP Weight(g)	SHALLOW Number	SHALLOW Weight(g)	COMBINED Number	COMBINED Weight(g)
Walleye	3	1184	0	0	3	1184
Yellow Perch	1	230	1	188	2	418
Northern Pike	0	0	3	2132	3	2132
White Sucker	1	438	1	676	2	1114
Lake Herring	39	17978	0	0	39	17978
Rock Bass	1	100	0	0	1	100
Carp	1	4280	0	0	1	4280
TOTAL	46	24210	5	2996	51	27206

Gear : Sill Net
Date : 10/19/82
Station : VI

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	3	544	5	2978	8	3522
Yellow Perch	0	0	2	250	2	250
Northern Pike	0	0	5	4376	5	4376
Muskellunge	0	0	1	550	1	550
White Sucker	0	0	1	878	1	878
Lake Herring	37	20946	0	0	37	20946
TOTAL	40	21490	14	9032	54	30522

Gear : Sill Net
Date : 11/17/82
Station : VI

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Northern Pike	1	1056	3	5394	4	6450
Burbot	1	1560	0	0	1	1560
Longnose Sucker	1	896	0	0	1	896
White Sucker	0	0	1	400	1	400
Lake Herring	21	9248	29	13416	50	22664
TOTAL	24	12760	33	19210	57	31970

Gear : Gill Net
Date : 01/26/82
Station : VII

Species	DEEP # Number	DEEP # Weight(g)	SHALLOW Number	SHALLOW Weight(g)	COMBINED Number	COMBINED Weight(g)
Yellow Perch	0	0	2	284	2	284
Northern Pike	0	0	3	2562	3	2562
White Sucker	0	0	1	1400	1	1400
Lake Herring	0	0	9	3894	9	3894
TOTAL	0	0	15	8140	15	8140

Gear : Gill Net
Date : 01/27/82
Station : VII

Species	DEEP Number	DEEP Weight(g)	SHALLOW # Number	SHALLOW # Weight(g)	COMBINED Number	COMBINED Weight(g)
Lake Herring	12	4905	0	0	12	4905
Trout-perch	1	8	0	0	1	8
TOTAL	13	4913	0	0	13	4913

Gear : Gill Net
Date : 02/04/82
Station : VII

Species	DEEP Number	DEEP Weight(g)	SHALLOW Number	SHALLOW Weight(g)	COMBINED Number	COMBINED Weight(g)
Yellow Perch	0	0	2	21	2	21
Northern Pike	0	0	2	1614	2	1614
White Sucker	1	360	0	0	1	360
Lake Herring	5	2084	4	1788	9	3872
Rock Bass	0	0	1	290	1	290
TOTAL	6	2444	9	3713	15	6157

Gear : Gill Net
Date : 02/08/82
Station : VII

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	1	10	1	10
Northern Pike	0	0	3	2430	3	2430
White Sucker	0	0	1	326	1	326
Lake Herring	3	474	1	324	4	798
Rock Bass	0	0	1	282	1	282
TOTAL	3	474	7	3372	10	3846

Gear : Gill Net
Date : 02/16/82
Station : VII

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	1	108	1	108
Northern Pike	0	0	3	1820	3	1820
White Sucker	1	1040	0	0	1	1040
Lake Herring	5	1538	0	0	5	1538
Brown Bullhead	0	0	1	404	1	404
TOTAL	6	2578	5	2332	11	4910

Gear : Gill Net
Date : 02/22/82
Station : VII

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	9	848	9	848
Northern Pike	2	0	2	0	4	0
White Sucker	1	764	0	0	1	764
TOTAL	3	764	11	848	14	1612

Gear : Gill Net
Date : 03/01/82
Station : VII

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	316	0	0	1	316
Yellow Perch	0	0	1	181	1	181
Northern Pike	1	786	1	504	2	1290
White Sucker	0	0	1	1028	1	1028
Lake Herring	5	1532	10	4028	15	5560
Rock Bass	0	0	1	265	1	265
TOTAL	7	2634	14	6006	21	8640

Gear : Gill Net
Date : 03/08/82
Station : VII

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	1	252	1	252
Northern Pike	0	0	1	0	1	0
Rainbow Smelt	1	21	1	21	2	42
White Sucker	0	0	1	682	1	682
Lake Herring	1	283	0	0	1	283
TOTAL	2	304	4	955	6	1259

Gear : Gill Net
Date : 03/15/82
Station : VII

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	1	10	1	10
Northern Pike	1	1440	0	0	1	1440
Silver Lamprey	0	0	1	28	1	28
Rainbow Smelt	3	50	1	50	4	100
White Sucker	0	0	3	2138	3	2138
Lake Herring	2	627	0	0	2	627
TOTAL	6	2117	6	2226	12	4343

Gear : Gill Net
Date : 05/05/82
Station : VII

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	1860	0	0	1	1860
Yellow Perch	4	310	4	578	8	888
Northern Pike	7	7302	70	68072	77	75374
Rainbow Smelt	9	172	40	536	49	708
White Sucker	2	2026	3	3020	5	5046
Lake Herring	8	3033	0	0	8	3033
Trout-perch	1	9	0	0	1	9
Rock Bass	0	0	2	413	2	413
Brown Bullhead	0	0	2	1104	2	1104
Spottail Shiner	1	11	3	40	4	51
TOTAL	33	14723	124	73768	157	88491

Gear : Gill Net
Date : 05/26/82
Station : VII

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	656	10	0	11	656
Yellow Perch	1	170	12	1529	13	1699
Northern Pike	7	4754	6	3322	13	8076
Rainbow Smelt	1	22	0	0	1	22
White Sucker	8	7056	11	6878	19	13934
Rock Bass	1	64	3	520	4	584
TOTAL	19	12722	42	12249	61	24971

Gear : Gill Net
Date : 06/03/82
Station : VII

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	5	3298	4	5460	9	8758
Yellow Perch	6	1560	7	929	13	2489
Northern Pike	3	3304	5	3214	8	6518
Rainbow Smelt	2	42	0	0	2	42
White Sucker	4	4066	6	5082	10	9148
Rock Bass	0	0	2	378	2	378
Brown Bullhead	0	0	4	1163	4	1163
TOTAL	20	12270	28	16226	48	28496

Gear : Gill Net
Date : 06/22/82
Station : VII

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	14	5873	1	1220	15	7093
Yellow Perch	2	346	11	1160	13	1506
Northern Pike	3	1870	4	3340	7	5210
Rainbow Smelt	2	51	0	0	2	51
White Sucker	5	4650	3	842	8	5492
Lake Herring	1	429	0	0	1	429
Trout-perch	2	23	1	14	3	37
Brown Bullhead	0	0	1	380	1	380
Alewife	0	0	1	12	1	12
Carp	0	0	1	3480	1	3480
Emerald Shiner	0	0	3	34	3	34
Spottail Shiner	1	14	2	26	3	40
TOTAL	30	13256	28	10508	58	23764

Gear : Gill Net
Date : 07/21/82
Station : VII

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	2	712	2	1731	4	2443
Yellow Perch	0	0	5	653	5	653
Northern Pike	0	0	5	4809	5	4809
Rainbow Smelt	2	32	0	0	2	32
White Sucker	2	1408	2	1025	4	2433
Lake Herring	2	922	0	0	2	922
Alewife	0	0	97	106	97	106
Carp	0	0	1	7000	1	7000
Spottail Shiner	1	11	0	0	1	11
TOTAL	9	3084	112	15324	121	18408

Gear : Gill Net
Date : 08/17/82
Station : VII

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	9	2766	5	3584	14	6350
Yellow Perch	1	141	3	440	4	581
Northern Pike	0	0	5	3286	5	3286
White Sucker	1	954	3	1630	4	2584
Rock Bass	1	84	1	144	2	228
Alewife	0	0	1	12	1	12
Carp	0	0	1	4000	1	4000
TOTAL	12	3945	19	13096	31	17041

Gear : Gill Net
Date : 08/25/82
Station : VII

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	8	2295	1	690	9	2985
Yellow Perch	0	0	4	462	4	462
Northern Pike	0	0	2	1459	2	1459
Burbot	0	0	1	150	1	150
White Sucker	2	940	3	1750	5	2690
Rock Bass	0	0	1	229	1	229
Alewife	1	6	7	71	8	77
TOTAL	11	3241	19	4811	30	8052

Gear : Gill Net
Date : 09/23/82
Station : VII

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	4	3440	1	274	5	3714
Yellow Perch	9	1683	3	600	12	2283
Northern Pike	0	0	2	638	2	638
White Sucker	2	630	5	4972	7	5602
Lake Herring	16	8522	0	0	16	8522
Brown Bullhead	0	0	1	392	1	392
TOTAL	31	14275	12	6876	43	21151

Gear : Gill Net
Date : 10/06/82
Station : VII

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	412	3	3316	4	3728
Yellow Perch	0	0	2	278	2	278
Northern Pike	0	0	3	2405	3	2405
Shorthead Redhorse	0	0	1	580	1	580
White Sucker	0	0	3	1816	3	1816
Lake Herring	18	6736	0	0	18	6736
Rock Bass	0	0	6	1352	6	1352
Spottail Shiner	1	20	0	0	1	20
TOTAL	20	7168	18	9747	38	16915

Gear : Gill Net
Date : 10/19/82
Station : VII

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	2	898	0	0	2	898
Yellow Perch	0	0	4	246	4	246
Northern Pike	0	0	7	9528	7	9528
Rainbow Smelt	1	26	1	32	2	58
White Sucker	1	752	3	3394	4	4146
Lake Herring	6	3364	0	0	6	3364
TOTAL	10	5040	15	13200	25	18240

Gear : Gill Net
Date : 11/17/82
Station : VII

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Northern Pike	1	320	1	472	2	792
White Sucker	0	0	1	372	1	372
Lake Herring	14	6347	3	876	17	7223
TOTAL	15	6667	5	1720	20	8387

Gear : Gill Net
Date : 01/27/83
Station : I

Species	DEEP Number	DEEP Weight(g)	SHALLOW Number	SHALLOW Weight(g)	COMBINED Number	COMBINED Weight(g)
Northern Pike	0	0	3	0	3	0
Spottail Shiner	2	21	0	0	2	21
TOTAL	2	21	3	0	5	21

Gear : Gill Net
Date : 02/02/83
Station : I

Species	DEEP Number	DEEP Weight(g)	SHALLOW Number	SHALLOW Weight(g)	COMBINED Number	COMBINED Weight(g)
Yellow Perch	1	79	0	0	1	79
Northern Pike	1	512	2	6785	3	7297
Rainbow Smelt	0	0	3	65	3	65
White Sucker	1	826	0	0	1	826
Round Whitefish	3	503	1	150	4	653
TOTAL	6	1920	6	7000	12	8920

Gear : Gill Net
Date : 02/09/83
Station : I

Species	DEEP Number	DEEP Weight(g)	SHALLOW Number	SHALLOW Weight(g)	COMBINED Number	COMBINED Weight(g)
Yellow Perch	4	65	0	0	4	65
Northern Pike	3	1500	1	2300	4	3800
Rainbow Smelt	1	24	1	20	2	44
White Sucker	1	1040	0	0	1	1040
Lake Whitefish	3	27	1	0	4	27
Round Whitefish	1	0	0	0	1	0
TOTAL	13	2656	3	2320	16	4976

Gear : Gill Net
Date : 02/16/83
Station : I

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	5	0	3	0	8	0
Northern Pike	1	377	1	0	2	377
Rainbow Smelt	3	81	1	22	4	103
Round Whitefish	1	0	1	0	2	0
TOTAL	10	458	6	22	16	480

Gear : Gill Net
Date : 02/21/83
Station : I

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	0	1	10	2	10
Northern Pike	0	0	1	0	1	0
Rainbow Smelt	3	71	2	54	5	125
White Sucker	1	0	1	0	2	0
TOTAL	5	71	5	64	10	135

Gear : Gill Net
Date : 02/22/83
Station : I

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Northern Pike	0	0	2	0	2	0
Rainbow Smelt	6	160	1	20	7	180
Round Whitefish	2	445	1	170	3	615
TOTAL	8	605	4	190	12	795

Gear : Gill Net
Date : 04/26/85
Station : I

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Northern Pike	0	0	3	2316	3	2316
Rainbow Smelt	2	64	127	2303	129	2367
White Sucker	0	0	24	26385	24	26385
Round Whitefish	1	165	0	0	1	165
Chinook Salmon	1	598	0	0	1	598
TOTAL	5	827	154	31004	159	31831

Gear : Gill Net
Date : 05/10/85
Station : I

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Northern Pike	0	0	6	9459	6	9459
Rainbow Smelt	0	0	2	36	2	36
Longnose Sucker	0	0	1	320	1	320
White Sucker	2	1980	26	27334	28	29314
Round Whitefish	3	595	0	0	3	595
Rainbow Trout	0	0	2	1380	2	1380
Coho Salmon	0	0	2	1129	2	1129
Rock Bass	0	0	1	180	1	180
Spottail Shiner	0	0	2	23	2	23
TOTAL	5	2575	42	39861	47	42436

Gear : Gill Net
Date : 06/08/83
Station : I

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	42	6419	42	6419
Northern Pike	3	8540	1	2150	4	10690
Longnose Sucker	1	740	0	0	1	740
White Sucker	2	1924	6	5855	8	7779
Lake Whitefish	1	355	0	0	1	355
Trout-perch	1	13	1	12	2	25
Rock Bass	0	0	1	153	1	153
Spottail Shiner	0	0	3	41	3	41
TOTAL	8	11572	54	14630	62	26202

Gear : Gill Net
Date : 06/21/83
Station : I

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	7	1008	7	1008
Northern Pike	1	2670	2	2426	3	5096
White Sucker	0	0	14	7648	14	7648
Lake Whitefish	1	302	0	0	1	302
Round Whitefish	2	524	0	0	2	524
Coho Salmon	1	632	0	0	1	632
Trout-perch	0	0	1	14	1	14
Spottail Shiner	0	0	2	24	2	24
TOTAL	5	4128	26	11120	31	15248

Gear : Gill Net
Date : 07/11/93
Station : I

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	4	320	4	320
Northern Pike	1	1710	2	1900	3	3610
Rainbow Smelt	13	284	0	0	13	284
White Sucker	0	0	5	1565	5	1565
Carp	0	0	1	3200	1	3200
TOTAL	14	1994	12	6985	26	8979

Gear : Gill Net
Date : 08/15/93
Station : I

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	12	2636	12	2636
Northern Pike	0	0	2	1428	2	1428
White Sucker	4	3095	7	3488	11	6583
Lake Whitefish	1	708	0	0	1	708
Rock Bass	0	0	2	343	2	343
Spottail Shiner	0	0	1	15	1	15
TOTAL	5	3803	24	7910	29	11713

Gear : Gill Net
Date : 09/26/83
Station : I

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	340	0	0	1	340
Northern Pike	1	890	2	1186	3	2076
White Sucker	2	1950	7	5716	9	7666
Lake Whitefish	0	0	2	881	2	881
Pink Salmon	2	1920	1	1007	3	2927
Rock Bass	0	0	1	349	1	349
Alewife	1	111	3	217	4	328
TOTAL	7	5211	16	9356	23	14567

Gear : Gill Net
Date : 10/19/83
Station : I

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Northern Pike	0	0	1	910	1	910
Rainbow Smelt	1	20	0	0	1	20
White Sucker	2	1366	5	3087	7	4953
Coho Salmon	1	2380	0	0	1	2380
Alewife	0	0	1	102	1	102
TOTAL	4	4266	7	4099	11	8365

Gear : Gill Net
Date : 11/14/83
Station : I

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	325	0	0	1	325
Northern Pike	0	0	1	0	1	0
White Sucker	0	0	5	4800	5	4800
Lake Whitefish	3	735	2	335	5	1070
TOTAL	4	1060	8	5135	12	6195

Gear : Gill Net
Date : 01/27/83
Station : II

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Northern Pike	1	1850	0	0	1	1850
White Sucker	7	6526	7	6530	14	13056
Lake Herring	8	5340	6	3613	14	8953
TOTAL	16	13716	13	10143	29	23859

Gear : Gill Net
Date : 01/31/83
Station : II

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Northern Pike	0	0	1	1575	1	1575
White Sucker	5	5069	0	0	5	5069
Lake Herring	3	1686	2	1265	5	2951
TOTAL	8	6755	3	2940	11	9595

Gear : Gill Net
Date : 02/09/83
Station : II

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Northern Pike	1	2080	1	1100	2	3180
White Sucker	8	7660	4	3140	12	10800
Lake Herring	5	2662	14	9105	19	11767
Lake Whitefish	1	0	0	0	1	0
TOTAL	15	12402	19	13345	34	25747

Gear : Gill Net
Date : 02/14/83
Station : II

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Northern Pike	0	0	1	0	1	0
White Sucker	4	3971	2	1552	6	5523
Lake Herring	8	5128	5	0	13	5128
TOTAL	12	9099	8	1552	20	10651

Gear : Gill Net
Date : 02/22/83
Station : II

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	1	1165	1	1165
White Sucker	1	1195	1	1145	2	2340
Lake Herring	19	0	19	0	38	0
TOTAL	20	1195	21	2310	41	3505

Gear : Gill Net
Date : 02/23/83
Station : II

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	0	0	0	1	0
White Sucker	2	2170	0	0	2	2170
Lake Herring	12	0	19	0	31	0
Lake Whitefish	1	0	0	0	1	0
TOTAL	16	2170	19	0	35	2170

Gear : Gill Net
Date : 02/28/83
Station : II

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Lake Herring	21	0	24	0	45	0
TOTAL	21	0	24	0	45	0

Gear : Gill Net
Date : 03/02/83
Station : II

	DEEP #		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Rainbow Smelt	0	0	2	32	2	32
Lake Herring	0	0	19	0	19	0
TOTAL	0	0	21	32	21	32

Gear : Gill Net
Date : 04/12/83
Station : II

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	2	840	2	840
Northern Pike	0	0	4	4080	4	4080
Rainbow Smelt	3	65	0	0	3	65
White Sucker	3	3840	52	54825	55	58665
Silver Redhorse	0	0	2	4940	2	4940
Lake Herring	10	7456	1	580	11	8036
TOTAL	16	11361	61	65565	77	76926

Gear : Gill Net
Date : 05/12/83
Station : II

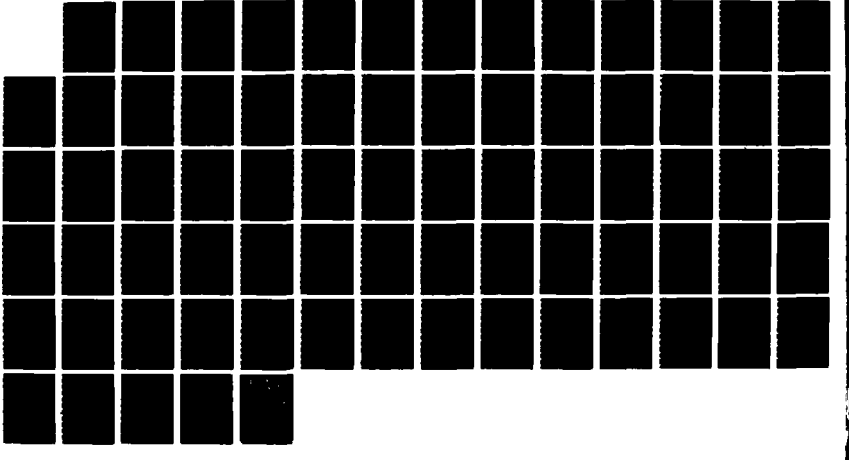
Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	1240	0	0	1	1240
Yellow Perch	2	1030	2	1420	4	2450
Northern Pike	3	3900	15	16800	18	20700
Longnose Sucker	1	1060	0	0	1	1060
White Sucker	5	4462	8	7598	13	12060
Lake Herring	0	0	1	508	1	508
Round Whitefish	2	724	0	0	2	724
TOTAL	14	12416	26	26326	40	38742

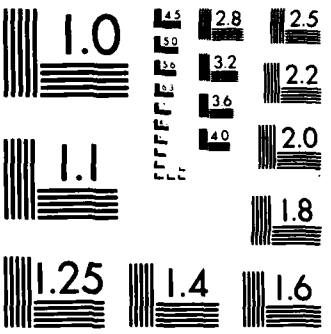
Gear : Gill Net
Date : 05/26/83
Station : II

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	1	1200	1	1200
Yellow Perch	1	530	2	620	3	1150
Northern Pike	3	5540	0	0	3	5540
Rainbow Smelt	1	21	0	0	1	21
Longnose Sucker	1	871	0	0	1	871
White Sucker	4	3610	3	2046	7	5656
Lake Herring	1	480	0	0	1	480
Round Whitefish	1	230	0	0	1	230
Rainbow Trout	0	0	1	619	1	619
Carp	0	0	2	9200	2	9200
TOTAL	12	11282	9	17685	21	26967

AD-A184 685 LIMNOLOGICAL AND FISHERIES STUDIES OF THE ST MARYS RIVER MICHIGAN IN RELA (U) MICHIGAN STATE UNIV EAST LANSING MI DEPT OF FISHERIES AND WIL 7/7

UNCLASSIFIED C R LISTON ET AL JAN 86 F/G 24/4 NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

Gear : Gill Net
Date : 06/22/83
Station : II

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	1630	1	1180	2	2810
Yellow Perch	1	256	0	0	1	256
Northern Pike	5	7148	0	0	5	7148
Rainbow Smelt	2	40	0	0	2	40
White Sucker	13	12592	2	1429	15	14021
Lake Herring	1	562	0	0	1	562
Round Whitefish	1	289	0	0	1	289
Chinook Salmon	0	0	1	6090	1	6090
Trout-perch	7	193	0	0	7	193
Spottail Shiner	0	0	1	60	1	60
TOTAL	31	22710	5	8759	36	31469

Gear : Gill Net
Date : 07/18/83
Station : II

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	3	2231	12	9534	15	11765
Yellow Perch	8	3179	11	3798	19	6977
Northern Pike	3	3160	7	5574	10	8734
Shorthead Redhorse	1	1240	0	0	1	1240
White Sucker	11	9616	5	4664	16	14280
Lake Herring	2	1136	0	0	2	1136
Trout-perch	0	0	1	12	1	12
Rock Bass	6	2454	7	3286	13	5740
Carp	1	3681	0	0	1	3681
TOTAL	35	26697	43	26868	78	53565

Gear : Gill Net
Date : 08/03/83
Station : II

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	3	3192	2	459	5	3651
Yellow Perch	1	190	1	780	2	970
Northern Pike	1	1160	0	0	1	1160
Shorthead Redhorse	0	0	1	1280	1	1280
White Sucker	7	6232	8	7444	15	13676
Rock Bass	7	2627	4	1552	11	4179
Brown Bullhead	1	120	1	144	2	264
Carp	0	0	1	4220	1	4220
TOTAL	20	13521	18	15879	38	29400

Gear : Gill Net
Date : 09/06/83
Station : II

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	1	1200	1	1200
Yellow Perch	0	0	2	490	2	490
Shorthead Redhorse	1	964	0	0	1	964
White Sucker	9	6462	5	3509	14	9971
Lake Herring	0	0	1	459	1	459
Pink Salmon	5	5240	7	7592	12	12832
Rock Bass	4	1007	0	0	4	1007
Smallmouth Bass	0	0	1	220	1	220
Brown Bullhead	3	705	3	360	6	1065
TOTAL	22	14378	20	13830	42	28208

Gear : Gill Net
Date : 10/03/83
Station : II

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	1	126	1	126
Yellow Perch	6	2671	1	306	7	2977
Northern Pike	1	491	1	491	2	982
White Sucker	5	4210	2	1555	7	5765
Pink Salmon	0	0	2	1890	2	1890
Rock Bass	0	0	1	140	1	140
TOTAL	12	7372	8	4508	20	11880

Gear : Gill Net
Date : 11/08/83
Station : II

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	4	2750	1	820	5	3570
Northern Pike	3	5800	3	5300	6	11100
White Sucker	2	1784	2	1872	4	3656
Silver Redhorse	1	2720	0	0	1	2720
Lake Herring	33	17161	68	35369	101	52530
Brown Bullhead	2	205	1	215	3	420
Alewife	2	25	0	0	2	25
TOTAL	47	30445	75	43576	122	74021

Gear : Gill Net
Date : 01/24/83
Station : II

Species	DEEP Number	DEEP Weight(g)	SHALLOW Number	SHALLOW Weight(g)	COMBINED Number	COMBINED Weight(g)
Yellow Perch	0	0	2	853	2	853
Northern Pike	1	1410	2	2220	3	3630
Rainbow Smelt	0	0	1	25	1	25
Longnose Sucker	0	0	1	928	1	928
White Sucker	2	1666	1	1300	3	2966
Lake Herring	3	1915	5	3000	8	4915
TOTAL	6	4991	12	8326	18	13317

Gear : Gill Net
Date : 01/31/83
Station : III

Species	DEEP Number	DEEP Weight(g)	SHALLOW Number	SHALLOW Weight(g)	COMBINED Number	COMBINED Weight(g)
Yellow Perch	1	493	1	471	2	964
Northern Pike	1	1700	1	3395	2	5095
White Sucker	0	0	3	2450	3	2450
Lake Herring	2	1229	1	326	3	1555
TOTAL	4	3422	6	6642	10	10064

Gear : Gill Net
Date : 02/07/83
Station : III

Species	DEEP Number	DEEP Weight(g)	SHALLOW Number	SHALLOW Weight(g)	COMBINED Number	COMBINED Weight(g)
Northern Pike	0	0	1	1650	1	1650
Burbot	1	1420	0	0	1	1420
White Sucker	0	0	1	1280	1	1280
Lake Herring	3	1369	3	1123	6	2492
TOTAL	4	2789	5	4053	9	6842

Gear : Gill Net
Date : 02/14/83
Station : III

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Northern Pike	2	0	1	1520	3	1520
Rainbow Smelt	0	0	1	17	1	17
White Sucker	1	1010	3	3227	4	4237
Lake Herring	2	1320	1	0	3	1320
TOTAL	5	2330	6	4764	11	7094

Gear : Gill Net
Date : 02/21/83
Station : III

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	2	0	2	0
Northern Pike	1	0	1	1260	2	1260
Rainbow Smelt	1	22	2	50	3	72
White Sucker	0	0	4	3667	4	3667
Lake Herring	7	0	5	0	12	0
TOTAL	9	22	14	4977	23	4999

Gear : Gill Net
Date : 04/18/83
Station : III

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	144	0	0	1	144
Northern Pike	2	0	2	3055	4	3055
Rainbow Smelt	24	457	4	70	28	527
White Sucker	2	1655	5	4725	7	6380
Lake Herring	1	754	2	1607	3	2361
TOTAL	30	3010	13	9457	43	12467

Gear : Gill Net
Date : 05/23/83
Station : III

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Northern Pike	0	0	1	880	1	880
White Sucker	3	2903	21	16309	24	19212
Lake Herring	1	910	1	680	2	1590
TOTAL	4	3813	23	17869	27	21682

Gear : Gill Net
Date : 05/31/83
Station : III

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	13	0	0	1	13
Northern Pike	1	1100	0	0	1	1100
Burbot	1	1700	0	0	1	1700
White Sucker	4	3913	2	1026	6	4939
Trout-perch	1	11	0	0	1	11
TOTAL	8	6737	2	1026	10	7763

Gear : Gill Net
Date : 06/27/83
Station : III

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	780	3	1159	4	1939
Yellow Perch	2	398	7	719	9	1117
Northern Pike	4	4444	3	3268	7	7712
White Sucker	3	2940	11	6211	14	9151
Lake Herring	15	8203	5	2692	20	10895
Trout-perch	1	12	0	0	1	12
TOTAL	26	16777	29	14049	55	30826

Gear : Gill Net
Date : 07/20/83
Station : III

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	2	1839	2	1839
Yellow Perch	4	909	0	0	4	909
Northern Pike	0	0	4	4867	4	4867
Shorthead Redhorse	0	0	1	732	1	732
White Sucker	11	8430	13	10443	24	18873
Lake Herring	6	4095	6	3739	12	7834
Rock Bass	0	0	1	164	1	164
Carp	0	0	1	4500	1	4500
TOTAL	21	13434	28	26284	49	39718

Gear : Gill Net
Date : 08/08/83
Station : III

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	761	2	1350	3	2111
Yellow Perch	0	0	3	868	3	868
Northern Pike	3	4560	1	812	4	5372
White Sucker	10	6670	10	4911	20	11581
Trout-perch	1	13	0	0	1	13
Rock Bass	0	0	1	60	1	60
Alewife	1	12	0	0	1	12
TOTAL	16	12016	17	8001	33	20017

Gear : Gill Net
Date : 09/12/83
Station : III

Species	DEEP Number	DEEP Weight(g)	SHALLOW Number	SHALLOW Weight(g)	COMBINED Number	COMBINED Weight(g)
Walleye	2	1358	4	4730	6	6088
Yellow Perch	6	738	2	407	8	1145
Northern Pike	1	1100	2	2330	3	3430
Shorthead Redhorse	0	0	1	1400	1	1400
White Sucker	9	7528	5	3545	14	11073
Pink Salmon	0	0	3	3700	3	3700
Rock Bass	0	0	1	52	1	52
Smallmouth Bass	0	0	1	320	1	320
TOTAL	18	10724	19	16484	37	27208

Gear : Gill Net
Date : 10/18/83
Station : III

Species	DEEP Number	DEEP Weight(g)	SHALLOW Number	SHALLOW Weight(g)	COMBINED Number	COMBINED Weight(g)
Walleye	1	1980	0	0	1	1980
Yellow Perch	1	550	2	504	3	1054
Northern Pike	2	805	3	6780	5	7585
White Sucker	1	268	4	3771	5	4039
Lake Herring	4	1923	9	5134	13	7057
Chinook Salmon	0	0	1	1500	1	1500
Rock Bass	1	173	0	0	1	173
TOTAL	10	5699	19	17689	29	23388

Gear : Gill Net
Date : 11/07/83
Station : III

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	2	1580	0	0	2	1580
Yellow Perch	2	1320	2	529	4	1849
Northern Pike	1	420	4	4850	5	5270
White Sucker	1	892	5	3717	6	4609
Lake Herring	36	18274	37	16365	73	34639
Lake Whitefish	0	0	1	1400	1	1400
Sea Lamprey	1	4	0	0	1	4
TOTAL	43	22490	49	26891	92	49381

Gear : Gill Net
Date : 01/24/83
Station : IV

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	208	1	78	2	286
Northern Pike	0	0	3	4600	3	4600
Rainbow Smelt	1	24	0	0	1	24
White Sucker	0	0	4	3456	4	3456
Lake Herring	4	2102	4	2999	8	5101
TOTAL	6	2334	12	11133	18	13467

Gear : Gill Net
Date : 01/31/83
Station : IV

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	2	433	4	587	6	1020
Northern Pike	2	1190	4	0	6	1190
Rainbow Smelt	0	0	1	18	1	18
White Sucker	3	2220	2	1980	5	4200
Lake Whitefish	1	1240	0	0	1	1240
TOTAL	8	5083	11	2585	19	7668

Gear : Gill Net
Date : 02/07/83
Station : IV

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	2	568	0	0	2	568
Northern Pike	0	0	8	7447	8	7447
Burbot	0	0	1	396	1	396
Lake Herring	1	260	4	1262	5	1522
TOTAL	3	828	13	9105	16	9933

Gear : Gill Net
Date : 02/14/83
Station : IV

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	2	145	1	0	3	145
Northern Pike	0	0	4	0	4	0
Burbot	0	0	1	1290	1	1290
Rainbow Smelt	0	0	1	19	1	19
White Sucker	0	0	2	2310	2	2310
Lake Herring	2	836	2	0	4	836
TOTAL	4	981	11	3619	15	4600

Gear : Gill Net
Date : 02/21/83
Station : IV

	DEEP		SHALLOW #		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	1	8	0	0	1	8
Northern Pike	10	0	0	0	10	0
Rainbow Smelt	4	92	0	0	4	92
Lake Herring	2	0	0	0	2	0
Spottail Shiner	1	8	0	0	1	8
TOTAL	18	108	0	0	18	108

Gear : Gill Net
Date : 02/22/83
Station : IV

	DEEP #		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	4	111	4	111
Northern Pike	0	0	5	4643	5	4643
Rainbow Smelt	0	0	5	129	5	129
White Sucker	0	0	1	855	1	855
Lake Herring	0	0	2	0	2	0
TOTAL	0	0	17	5737	17	5737

Gear : Gill Net
Date : 04/20/83
Station : IV

Species	DEEP Number	DEEP Weight(g)	SHALLOW Number	SHALLOW Weight(g)	COMBINED Number	COMBINED Weight(g)
Northern Pike	0	0	1	840	1	840
Rainbow Smelt	48	897	59	1021	107	1918
Longnose Sucker	1	1200	0	0	1	1200
White Sucker	0	0	6	5620	6	5620
Lake Herring	0	0	3	1258	3	1258
TOTAL	49	2097	69	8739	118	10836

Gear : Gill Net
Date : 05/23/83
Station : IV

Species	DEEP Number	DEEP Weight(g)	SHALLOW Number	SHALLOW Weight(g)	COMBINED Number	COMBINED Weight(g)
Walleye	1	1020	1	1020	2	2040
Yellow Perch	0	0	1	58	1	58
Northern Pike	13	11367	8	8260	21	19627
White Sucker	19	17935	27	22191	46	40126
Silver Redhorse	0	0	2	5800	2	5800
Lake Herring	0	0	2	1512	2	1512
Trout-perch	1	14	0	0	1	14
Smallmouth Bass	0	0	1	700	1	700
Spottail Shiner	0	0	1	9	1	9
TOTAL	34	30336	43	39550	77	69886

Gear : Gill Net
Date : 05/31/83
Station : IV

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	3	4090	3	4090
Yellow Perch	0	0	4	835	4	835
Northern Pike	11	9965	9	8118	20	18083
Burbot	1	750	0	0	1	750
White Sucker	12	10559	15	11730	27	22289
Lake Trout	0	0	1	3100	1	3100
Coho Salmon	0	0	1	678	1	678
Trout-perch	2	22	2	25	4	47
TOTAL	26	21296	35	28576	61	49872

Gear : Gill Net
Date : 06/27/83
Station : IV

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	940	8	9430	9	10370
Yellow Perch	1	300	1	124	2	424
Northern Pike	23	19911	19	14954	42	34865
Shorthead Redhorse	0	0	1	972	1	972
White Sucker	5	4508	12	12552	17	17060
Lake Herring	0	0	2	700	2	700
Lake Whitefish	1	1900	0	0	1	1900
Rock Bass	0	0	1	52	1	52
Alewife	0	0	2	28	2	28
Emerald Shiner	0	0	1	8	1	8
Spottail Shiner	0	0	1	12	1	12
TOTAL	31	27559	48	38832	79	66391

Gear : Gill Net
Date : 07/20/83
Station : IV

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	3	2281	3	2281
Yellow Perch	8	1579	8	969	16	2548
Northern Pike	10	5371	8	4694	18	10065
White Sucker	8	7141	6	4940	14	12081
Silver Redhorse	0	0	2	5280	2	5280
Brook Trout	0	0	1	743	1	743
Rock Bass	2	517	6	1944	8	2461
Gizzard Shad	1	0	0	0	1	0
TOTAL	29	14608	34	21451	63	36059

Gear : Gill Net
Date : 08/09/83
Station : IV

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	1	584	1	584
Yellow Perch	1	24	5	833	6	857
Northern Pike	6	4524	2	1620	8	6144
White Sucker	4	3026	6	3951	10	6977
Rock Bass	9	2072	13	1400	22	3472
Smallmouth Bass	1	920	2	1040	3	1960
Brown Bullhead	1	680	0	0	1	680
Alewife	1	13	0	0	1	13
Carp	1	3220	0	0	1	3220
TOTAL	24	14479	29	9428	53	23907

Gear : Gill Net
Date : 09/12/83
Station : IV

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	1060	2	599	4	2249
Yellow Perch	11	1718	6	847	17	2565
Northern Pike	3	2681	1	777	4	3458
White Sucker	7	5734	5	3281	12	9015
Silver Redhorse	0	0	2	1386	2	1386
Pink Salmon	2	2190	25	28872	27	31062
Pumpkinseed	0	0	1	240	1	240
Rock Bass	32	6354	37	6201	69	12555
Smallmouth Bass	0	0	1	164	1	164
Brown Bullhead	2	1045	7	1977	9	3022
Carp	0	0	1	3200	1	3200
TOTAL	58	20782	89	48234	147	69016

Gear : Gill Net
Date : 10/18/83
Station : IV

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	420	1	2350	2	2770
Yellow Perch	5	1181	1	158	6	1339
Northern Pike	4	2208	4	5870	8	8078
White Sucker	1	875	5	2505	6	3380
Silver Redhorse	0	0	1	640	1	640
Lake Herring	4	3279	9	4605	13	7884
Rainbow Trout	0	0	1	470	1	470
Coho Salmon	0	0	1	2980	1	2980
Rock Bass	11	1933	2	320	13	2253
Channel Catfish	0	0	1	296	1	296
TOTAL	26	9896	26	20194	52	30090

Gear : Gill Net
Date : 11/07/83
Station : IV

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	2	1078	2	1078
Yellow Perch	9	1345	3	586	12	1931
Northern Pike	2	6940	5	10280	7	17220
Burbot	1	1300	0	0	1	1300
White Sucker	0	0	3	3025	3	3025
Lake Herring	5	2146	38	18928	43	21074
Rock Bass	5	1238	3	918	8	2156
Sea Lamprey	0	0	1	5	1	5
TOTAL	22	12969	55	34820	77	47789

Gear : Gill Net
Date : 01/26/83
Station : V

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	2	0	0	0	2	0
White Sucker	1	1056	1	780	2	1836
Lake Herring	7	2100	2	794	9	2894
TOTAL	10	3156	3	1574	13	4730

Gear : Gill Net
Date : 02/02/83
Station : V

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	6	0	3	2936	9	2836
Northern Pike	0	0	1	895	1	895
Rainbow Smelt	1	22	0	0	1	22
Lake Herring	9	3121	1	402	10	3523
TOTAL	16	3143	5	4133	21	7276

Gear : Gill Net
Date : 02/09/83
Station : V

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	5	0	1	0	6	0
Sauger	2	630	0	0	2	630
Northern Pike	1	0	0	0	1	0
White Sucker	4	3526	1	446	5	3972
Lake Herring	8	2818	4	1722	12	4540
TOTAL	20	6974	6	2168	26	9142

Gear : Gill Net
Date : 02/16/83
Station : V

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	17	3120	2	0	19	3120
Sauger	1	0	0	0	1	0
Northern Pike	0	0	1	0	1	0
White Sucker	4	3138	1	718	5	3856
Lake Herring	3	0	0	0	3	0
TOTAL	25	6258	4	718	29	6976

Gear : Gill Net
Date : 02/21/83
Station : V

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	2	0	1	0	3	0
Sauger	0	0	1	298	1	298
Northern Pike	1	0	0	0	1	0
Burbot	1	0	0	0	1	0
White Sucker	1	1070	0	0	1	1070
Lake Herring	7	0	2	0	9	0
TOTAL	12	1070	4	298	16	1368

Gear : Gill Net
Date : 02/23/83
Station : V

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	4	0	0	0	4	0
Rainbow Smelt	1	23	1	30	2	53
White Sucker	4	4354	1	806	5	5160
Lake Herring	9	0	1	360	10	360
TOTAL	18	4377	3	1196	21	5573

Gear : Gill Net
Date : 04/15/83
Station : V

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	12	8561	12	8561
Yellow Perch	0	0	1	560	1	560
Lake Sturgeon	0	0	1	6300	1	6300
Northern Pike	0	0	2	1749	2	1749
Rainbow Smelt	2	39	15	265	17	304
Shorthead Redhorse	0	0	1	1220	1	1220
White Sucker	1	839	1	813	2	1652
Lake Herring	10	3277	5	2548	15	5825
Trout-perch	0	0	1	9	1	9
Emerald Shiner	0	0	1	2	1	2
TOTAL	13	4155	40	22026	53	26181

Gear : Gill Net
Date : 05/07/83
Station : V

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	2	2798	15	9465	17	12263
Northern Pike	2	2820	5	4670	7	7490
Longnose Gar	0	0	1	799	1	799
Rainbow Smelt	0	0	2	38	2	38
White Sucker	2	1966	5	2002	7	3968
Lake Herring	7	2790	0	0	7	2790
Trout-perch	1	8	0	0	1	8
Channel Catfish	0	0	1	808	1	808
TOTAL	14	10382	29	17782	43	28164

Gear : Gill Net
Date : 06/07/83
Station : V

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	3	1220	12	4441	15	5661
Rainbow Smelt	1	24	0	0	1	24
White Sucker	0	0	2	1364	2	1364
Lake Trout	1	1580	0	0	1	1580
Lake Herring	3	748	0	0	3	748
TOTAL	8	3572	14	5805	22	9377

Gear : Gill Net
Date : 07/11/83
Station : V

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	4	1275	7	2723	11	3998
Yellow Perch	0	0	2	320	2	320
Northern Pike	5	4810	1	1180	6	5990
Rainbow Smelt	3	37	0	0	3	37
White Sucker	7	4310	4	1750	11	6060
Rock Bass	0	0	1	157	1	157
Alewife	0	0	2	17	2	17
Spottail Shiner	2	20	0	0	2	20
TOTAL	21	10452	17	6147	38	16599

Gear : Gill Net
Date : 08/04/83
Station : V

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	4	2826	10	6314	14	9140
Yellow Perch	2	234	1	150	3	384
Northern Pike	2	1428	1	1000	3	2428
Shorthead Redhorse	0	0	1	930	1	930
White Sucker	8	5272	3	2210	11	7482
TOTAL	16	9760	16	10604	32	20364

Gear : Gill Net
Date : 08/29/83
Station : V

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	3	2160	3	2160
Yellow Perch	0	0	7	1016	7	1016
Northern Pike	0	0	1	455	1	455
White Sucker	6	3854	1	182	7	4036
Lake Herring	1	366	0	0	1	366
Rock Bass	0	0	1	520	1	520
Brown Bullhead	0	0	2	645	2	645
TOTAL	7	4220	15	4978	22	9198

Gear : Gill Net
Date : 09/23/83
Station : V

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	3	1558	0	0	3	1558
Yellow Perch	0	0	1	222	1	222
Sauger	1	282	0	0	1	282
White Sucker	0	0	2	1510	2	1510
Lake Herring	0	0	2	990	2	990
Rock Bass	1	130	0	0	1	130
White Bass	1	429	1	47	2	475
TOTAL	6	2398	6	2769	12	5167

Gear : Gill Net
Date : 10/18/83
Station : V

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	3	1825	3	1825
Northern Pike	0	0	2	1954	2	1954
Shorthead Redhorse	0	0	1	2640	1	2640
Lake Herring	21	11366	16	8284	37	19650
TOTAL	21	11366	22	14703	43	26069

Gear : Gill Net
Date : 11/10/83
Station : V

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	35	14831	6	2322	41	17153
Yellow Perch	1	325	2	396	3	721
Northern Pike	4	5272	2	0	6	5272
Burbot	0	0	1	1020	1	1020
Shorthead Redhorse	1	712	0	0	1	712
White Sucker	2	1300	0	0	2	1300
Lake Herring	8	3133	45	19025	53	22158
TOTAL	51	25573	56	22763	107	48336

Gear : Gill Net
Date : 01/25/83
Station : VI

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Northern Pike	0	0	1	642	1	642
Silver Redhorse	1	3100	0	0	1	3100
Lake Herring	9	3522	2	662	11	4184
TOTAL	10	6622	3	1304	13	7926

Gear : Gill Net
Date : 02/02/83
Station : VI

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Northern Pike	0	0	3	2833	3	2833
Rainbow Smelt	1	22	0	0	1	22
Lake Herring	5	1590	1	530	6	2120
Lake Whitefish	1	1180	0	0	1	1180
TOTAL	7	2792	4	3363	11	6155

Gear : Gill Net
Date : 02/09/83
Station : VI

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Northern Pike	0	0	1	0	1	0
Lake Herring	25	6938	5	1708	30	8646
TOTAL	25	6938	6	1708	31	8646

Gear : Gill Net
Date : 02/16/93
Station : VI

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	116	0	0	1	116
Northern Pike	0	0	1	0	1	0
Burbot	1	1290	0	0	1	1290
Rainbow Smelt	1	18	0	0	1	18
Lake Herring	6	0	3	0	9	0
Lake Whitefish	1	0	0	0	1	0
TOTAL	10	1414	4	0	14	1414

Gear : Gill Net
Date : 02/21/93
Station : VI

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Rainbow Smelt	1	17	0	0	1	17
Lake Herring	2	373	1	160	3	533
Spottail Shiner	0	0	1	9	1	9
TOTAL	3	390	2	169	5	559

Gear : Gill Net
Date : 02/23/93
Station : VI

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Lake Herring	1	128	4	0	5	128
TOTAL	1	128	4	0	5	128

Gear : Gill Net
Date : 04/15/83
Station : VI

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	5	7051	5	7051
Yellow Perch	0	0	1	82	1	82
Northern Pike	0	0	5	4992	5	4992
Rainbow Smelt	1	32	25	412	26	444
Lake Herring	20	8717	7	2336	27	11053
TOTAL	21	8749	43	14873	64	23622

Gear : Gill Net
Date : 05/07/83
Station : VI

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	22	0	22	0
Yellow Perch	2	1612	4	132	6	1744
Northern Pike	0	0	20	16174	20	16174
White Sucker	0	0	2	1284	2	1284
Lake Herring	34	14232	0	0	34	14232
Trout-perch	0	0	1	4	1	4
Spottail Shiner	0	0	1	4	1	4
TOTAL	36	15844	50	17598	86	33442

Gear : Gill Net
Date : 06/07/83
Station : VI

Species	DEEP Number	DEEP Weight(g)	SHALLOW Number	SHALLOW Weight(g)	COMBINED Number	COMBINED Weight(g)
Walleye	0	0	12	5294	12	5294
Yellow Perch	1	248	0	0	1	248
Northern Pike	0	0	11	9540	11	9540
White Sucker	1	125	5	3582	6	3707
Lake Herring	8	3760	2	580	10	4340
Channel Catfish	0	0	1	814	1	814
TOTAL	10	4133	31	19810	41	23943

Gear : Gill Net
Date : 07/11/83
Station : VI

Species	DEEP Number	DEEP Weight(g)	SHALLOW Number	SHALLOW Weight(g)	COMBINED Number	COMBINED Weight(g)
Walleye	5	942	1	108	6	1050
Yellow Perch	0	0	2	0	2	0
Northern Pike	1	2300	1	1400	2	3700
Rainbow Smelt	6	86	0	0	6	86
White Sucker	0	0	3	2274	3	2274
Trout-perch	1	10	0	0	1	10
Alewife	0	0	3	23	3	23
Carp	0	0	1	2800	1	2800
Spottail Shiner	1	7	0	0	1	7
TOTAL	14	3345	11	6605	25	9949

Gear : Gill Net
Date : 08/04/93
Station

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	2	1890	2	1890
Yellow Perch	1	92	0	0	1	92
Northern Pike	2	1880	4	4380	6	6260
White Sucker	3	1838	3	2938	6	4776
Rock Bass	0	0	4	578	4	578
TOTAL	6	3810	13	9786	19	13596

Gear : Gill Net
Date : 08/29/93
Station : VI

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	237	1	355	2	592
Yellow Perch	1	76	4	583	5	659
White Sucker	1	378	5	4978	6	5356
Rock Bass	0	0	1	230	1	230
Channel Catfish	1	1070	0	0	1	1070
Brown Bullhead	0	0	5	1838	5	1838
TOTAL	4	1761	16	7984	20	9745

Gear : Gill Net
Date : 09/23/83
Station : VI

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	204	1	250	2	454
Shorthead Redhorse	0	0	1	1370	1	1370
White Sucker	1	826	3	2243	4	3069
Lake Trout	1	2690	0	0	1	2690
Lake Herring	0	0	1	211	1	211
Rock Bass	0	0	1	213	1	213
TOTAL	3	3720	7	4287	10	8007

Gear : Gill Net
Date : 10/18/83
Station : VI

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	1	980	1	980
Rainbow Smelt	1	22	0	0	1	22
White Sucker	1	520	2	2490	3	3010
Lake Herring	24	10709	1	570	25	11279
Trout-perch	0	0	1	9	1	9
TOTAL	26	11251	5	4049	31	15300

Gear : Gill Net
Date : 11/10/83
Station : VI

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	2	932	0	0	2	932
Yellow Perch	0	0	1	264	1	264
Northern Pike	2	768	2	835	4	1603
Rainbow Smelt	0	0	1	28	1	28
White Sucker	2	829	1	920	3	1749
Lake Herring	4	1242	35	16747	39	17989
Lake Whitefish	0	0	1	2160	1	2160
TOTAL	10	3771	41	20954	51	24725

Gear : Gill Net
Date : 01/20/83
Station : VII

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	2	164	2	164
Northern Pike	0	0	2	0	2	0
Rainbow Smelt	2	52	0	0	2	52
White Sucker	0	0	2	1646	2	1646
Lake Herring	9	3744	10	5232	19	8976
Trout-perch	1	12	0	0	1	12
TOTAL	12	3808	16	7042	28	10850

Gear : Gill Net
Date : 01/31/83
Station : VII

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Northern Pike	1	0	6	0	7	0
Burbot	1	1190	0	0	1	1190
White Sucker	0	0	2	1468	2	1468
Lake Herring	4	1588	16	6106	20	7694
TOTAL	6	2778	24	7574	30	10352

Gear : Gill Net
Date : 02/07/83
Station : VII

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	2	514	2	514
Northern Pike	0	0	7	0	7	0
Lake Herring	6	2112	11	0	17	2112
TOTAL	6	2112	20	514	26	2626

Gear : Gill Net
Date : 02/14/83
Station : VII

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	2	0	2	0
Northern Pike	0	0	5	0	5	0
Rainbow Smelt	1	18	1	16	2	34
Lake Herring	13	838	31	0	44	838
TOTAL	14	856	39	16	53	872

Gear : Gill Net
Date : 02/21/83
Station : VII

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	3	0	3	0
Northern Pike	0	0	11	0	11	0
Rainbow Smelt	2	42	1	30	3	72
White Sucker	0	0	2	1833	2	1833
Lake Herring	9	0	7	3220	16	3220
Trout-perch	0	0	1	9	1	9
TOTAL	11	42	25	5092	36	5134

Gear : Gill Net
Date : 02/23/83
Station : VII

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Northern Pike	0	0	5	0	5	0
Lake Herring	4	0	19	0	23	0
Trout-perch	0	0	1	0	1	0
TOTAL	4	0	25	0	29	0

Gear : Gill Net
Date : 02/28/83
Station : VII

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	0	0	1	0	1	0
Northern Pike	0	0	5	0	5	0
Rainbow Smelt	3	70	0	0	3	70
White Sucker	0	0	1	284	1	284
Lake Herring	6	0	5	0	11	0
Spottail Shiner	0	0	1	9	1	9
TOTAL	9	70	13	273	22	343

Gear : Gill Net
Date : 04/15/83
Station : VII

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Yellow Perch	2	270	3	294	5	564
Northern Pike	1	279	19	17658	20	17937
Rainbow Smelt	0	0	62	1149	62	1149
White Sucker	2	1246	2	2040	4	3286
Lake Herring	3	1672	0	0	3	1672
TOTAL	8	3467	86	21141	94	24608

Gear : Gill Net
Date : 05/07/83
Station : VII

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	0	0	7	1822	7	1822
Yellow Perch	1	75	6	570	7	645
Northern Pike	1	582	14	10533	15	11115
White Sucker	0	0	1	1080	1	1080
Lake Herring	0	0	1	492	1	492
Trout-perch	1	5	3	24	4	29
Rock Bass	0	0	2	511	2	511
Channel Catfish	0	0	1	1920	1	1920
Brown Bullhead	1	632	0	0	1	632
Spottail Shiner	0	0	2	18	2	18
TOTAL	4	1294	37	16970	41	18264

Gear : Gill Net
Date : 06/07/83
Station : VII

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	252	13	10914	14	11166
Yellow Perch	0	0	17	1562	17	1562
Northern Pike	3	3508	5	4472	8	7980
Rainbow Smelt	109	2015	0	0	109	2015
White Sucker	1	862	0	0	1	862
Silver Redhorse	1	2900	0	0	1	2900
Lake Herring	1	464	1	215	2	679
Coho Salmon	0	0	1	648	1	648
Rock Bass	1	184	0	0	1	184
Brown Bullhead	0	0	1	490	1	490
Spottail Shiner	0	0	4	54	4	54
TOTAL	117	10185	42	18355	159	28540

Gear : Gill Net
Date : 07/11/83
Station : VII

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	2	576	2	900	4	1476
Yellow Perch	0	0	4	746	4	746
Northern Pike	3	2446	0	0	3	2446
Rainbow Smelt	3	56	0	0	3	56
White Sucker	2	1182	6	4032	8	5214
Lake Herring	3	1150	0	0	3	1150
Rock Bass	0	0	1	408	1	408
Alewife	2	13	9	91	11	105
Carp	0	0	5	18340	5	18340
TOTAL	15	5423	27	24517	42	29941

Gear : Gill Net
Date : 08/04/83
Station : VII

	DEEP		SHALLOW		COMBINED	
Species	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	3	712	1	764	4	1476
Yellow Perch	2	158	2	350	4	508
Northern Pike	1	880	3	2056	4	2936
White Sucker	9	4750	0	0	9	4750
Rock Bass	0	0	3	742	3	742
Brown Bullhead	0	0	1	180	1	180
Alewife	0	0	66	591	66	591
TOTAL	15	6500	76	4683	91	11183

Gear : Gill Net
Date : 08/29/83
Station : VII

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	3	1667	0	0	3	1667
Yellow Perch	1	315	2	368	3	683
Northern Pike	1	400	0	0	1	400
White Sucker	5	2262	1	417	6	2679
Pink Salmon	0	0	3	3860	3	3860
Rock Bass	1	330	4	1350	5	1680
Brown Bullhead	0	0	1	118	1	118
Alewife	0	0	1	15	1	15
Carp	0	0	1	3860	1	3860
Spottail Shiner	1	8	0	0	1	8
TOTAL	12	4982	13	9988	25	14970

Gear : Gill Net
Date : 09/23/83
Station : VII

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	9	7922	0	0	9	7922
Yellow Perch	0	0	1	166	1	166
Northern Pike	0	0	1	1380	1	1380
White Sucker	2	1155	1	1090	3	2245
Lake Herring	4	1759	0	0	4	1759
Rock Bass	0	0	1	190	1	190
Brown Bullhead	0	0	1	270	1	270
TOTAL	15	10836	5	3096	20	13932

Gear : Gill Net
Date : 10/18/83
Station : VII

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	1	500	0	0	1	500
Yellow Perch	1	340	1	70	2	410
Northern Pike	0	0	4	5550	4	5550
Rainbow Smelt	1	11	0	0	1	11
White Sucker	0	0	2	2040	2	2040
Lake Herring	4	1826	0	0	4	1826
TOTAL	7	2677	7	7660	14	10337

Gear : Gill Net
Date : 11/10/83
Station : VII

Species	DEEP		SHALLOW		COMBINED	
	Number	Weight(g)	Number	Weight(g)	Number	Weight(g)
Walleye	3	1360	0	0	3	1360
Yellow Perch	0	0	1	281	1	281
Northern Pike	0	0	5	6284	5	6284
Rainbow Smelt	1	24	1	16	2	40
White Sucker	1	377	2	1650	3	2027
Lake Herring	0	0	8	2660	8	2660
Lake Whitefish	1	1410	0	0	1	1410
Rock Bass	0	0	2	657	2	657
TOTAL	6	3171	19	11548	25	14719

Appendix O . Sample dates, effort, total catch, and numbers of fish tagged for large mesh trap net samples in the St. Marys River during 1982 and 1983.

One unit of effort is equal to a two-day set or 48 hrs.

Table 01. Clarification of large trap net sampling station designations to conform to stations used in the text.

	STATIONS						
Appendix Designation	BP	PAP	VS	U4E	U5E	L4W	L5E
	1	1-A	2	3	3	5	6
Text Designation	I	I-A	I-B	II	II-A	II-B	II-C

	STATIONS							
Appendix Designation	7E		9E	U8W	MB	L8W		RI
	7	7-A	8	9	9-A, B	10	11	12
Text Designation	III	III-A	IV	IV-A	V, V-A	VI	VI-A	VII

Appendix Table 02. Sample dates and effort for 1982.

Month	Date (1982)	Station	Effort
May	5/5-7	3	1.0
	5/6-8	2-A	1.0
	5/6-8	1	1.0
	5/9-11	9	1.0
	5/10-12	8	1.0
	5/11-13	10	1.0
	5/22-24	6	1.0
	5/22-24	7	1.0
	5/23-25	4	1.0
	5/23-25	5	1.0
June	6/4-6	8	1.0
	6/4-6	9	1.0
	6/5-8	11	1.5
	6/5-8	10	1.5
	6/9-11	3	1.0
	6/17-19	2-B	1.0
	6/18-20	1	1.0
	6/22-24	7	1.0
	6/22-24	6	1.0
	6/23-25	4	<1.0
	6/23-25	5	1.0
July	7/6-8	3	1.0
	7/7-9	1	1.0
	7/7-9	2	1.0
	7/13-15	10	1.0
	7/13-15	11	<1.0
	7/14-16	8	<1.0
	7/19-21	9	1.0
	7/20-22	7	1.0
	7/20-22	6	1.0
	7/21-23	4	1.0
	7/21-23	5	<1.0
Aug.	8/4-6	8	1.0
	8/4-6	9	1.0
	8/9-11	10	1.0
	8/9-11	11	1.0
	8/16-18	3	1.0
	8/17-19	1	1.0
	8/17-19	2	1.0
	8/23-25	6	1.0
	8/23-25	7	1.0
	8/24-26	5	1.0
	8/24-26	4	1.0
Sept.	9/1-3	3	1.0
	9/7-9	1	1.0
	9/7-9	2	1.0
	9/13-15	9	1.0
	9/15-17	8	1.0
	9/21-23	11	1.0
	9/21-23	10	1.0
	9/22-24	6	1.0
	9/27-29	7	<1.0
	9/27-29	7-A	1.0
	9/28-30	4	1.0
	9/28-30	5	1.0
Oct.	10/3-5	9	1.0
	10/4-6	8	1.0
	10/4-6	10	1.0
	10/11-13	3	1.0
	10/12-14	2	<1.0
	10/12-14	1	1.0
	10/18-20	6	1.0
	10/18-20	7	1.0
	10/19-21	4	1.0
	10/19-21	5	1.0
Nov.	11/1-3	1	1.0
	11/1-3	2	1.0
	11/2-4	3	1.0
	11/5-7	10	1.0
	11/5-7	8	1.0
	11/5-7	9	1.0
	11/9-11	4	1.0
	11/9-11	5	1.0
	11/9-11	6	1.0
	11/9-11	7	1.0
	11/16-18	3	0.5

Appendix Table 03. Sample dates and effort for 1983.

Month	Date (1983)	Station	Effort
April	4/20-21	9-A	0.5
	4/21-22	9-A	0.5
	4/25-26	9-A	0.5
	4/25-26	9-B	0.5
	4/26-27	9-A	0.5
	4/27-28	9-A	0.5
	4/26-28	9-B	1.0
	4/28-29	9-A	0.5
	4/28-29	9-B	0.5
May	5/3-5	3	1.0
	5/3-5	1-A	1.0
	5/9-11	10	1.0
	5/9-11	12	1.0
	5/10-12	8	1.0
	5/16-18	9	1.0
	5/16-18	7-A	1.0
	5/17-19	6	1.0
	5/24-26	4	1.0
	5/24-26	5	1.0
June	6/1-2	12	0.5
	6/2-3	12	0.5
	6/4-5	9-B	0.5
	6/6-8	8	1.0
	6/6-8	9	1.0
	6/7-9	10	1.0
	6/13-14	3	0.5
	6/14-15	3	0.5
	6/13-15	1-A	1.0
	6/14-16	7-A	1.0
	6/20-21	4	0.5
	6/21-22	4	0.5
	6/21-22	5	0.5
	6/22-23	5	0.5
	6/21-23	6	1.0
July	7/5-7	1-A	1.0
	7/11-13	3	1.0
	7/12-14	8	1.0
	7/12-14	9	1.0
	7/18-20	10	1.0
	7/18-20	12	1.0
	7/19-21	6	1.0
	7/25-26	4	0.5
	7/26-27	4	0.5
July	7/25-26	5	0.5
	7/26-27	5	0.5
	7/26-28	7-A	1.0
Aug.	8/1-3	10	1.0
	8/1-3	12	1.0
	8/2-4	8	1.0
	8/8-10	3	1.0
	8/9-11	9	1.0
	8/10-12	1-A	1.0
	8/22-23	4	0.5
	8/23-24	4	0.5
	8/23-25	5	1.0
	8/23-25	6-A	1.0
	8/24-26	7-A	1.0
	8/29-31	6	1.0
Sept.	9/6-8	1-A	1.0
	9/6-8	3	1.0
	9/7-9	9	1.0
	9/12-13	8	0.5
	9/13-14	8	0.5
	9/12-14	12	1.0
	9/13-15	10	1.0
	9/19-20	5	0.5
	9/20-21	5	0.5
	9/19-21	4	1.0
	9/20-22	6	1.0
	9/26-28	7-A	1.0
Oct.	10/4-6	10	1.0
	10/5-7	12	1.0
	10/5-7	8	1.0
	10/10-12	9	1.0
	10/10-12	3	1.0
	10/11-13	1-A	1.0
	10/12-17	9	2.5
	10/15-17	6	1.0
	10/17-18	4	0.5
	10/18-19	4	0.5
	10/17-18	5	0.5
	10/18-19	5	0.5
	10/18-20	7-A	1.0

Continued

Appendix Table 03. (Concluded)

Month	Date (1983)	Station	Effort	Month	Date (1983)	Station	Effort
Nov.	10/31-11/2	3	1.0				
	10/31-11/2	1-A	1.0				
	11/2-4	9	1.0				
	11/2-4	8	1.0				
	11/5-7	10	1.0				
	11/5-7	12	1.0				
	11/6-8	6	1.0				
	11/6-8	7-A	1.0				
	11/8-10	4	1.0				
	11/8-10	5	1.0				

Table 04. Numbers of fish captured in large mesh trap nets, tagged and released during May 1982 in the St. Marys River. (Parenthetical figures show numbers of fish released without tags.)

Species	Station and Date											Total Captured
	1 5/6-8	2 5/6-8	3 5/5-7	4 5/23-25	5 5/23-25	6 5/22-24	7 5/22-24	8 5/10-12	9 5/9-11	10 5/11-13	Sub-totals	
White sucker	30 (152)	20 (59)	20 (56)	13	50 (92)	24 (55)	27 (64)	23 (50)	20 (45)	0 (20)	227 (593)	820
Walleye	0	6	0	0	2	0	0	5	12	124 (98)	143 (98)	241
Yellow perch	2	0	1	0	1	0	1	4	7	0 (2)	16 (2)	18
Rock bass	0	1	0	0	0	5	1	5	1	0 (1)	13 (1)	14
Brown bullhead	0	0	0	0	1	0	0	0	1	0 (1)	2 (1)	3
Northern pike	1	15 (1)	1	7	1	0	1	16	4	2	48 (1)	49
Smallmouth bass	0	0	0	0	1	0	0	0	0	0	1 (0)	1
Channel catfish	0	0	0	0	0	0	0	0	0	0 (1)	0 (1)	1
Shorthead redhorse	0	0	0	0	0	0	0	1	1	0	2 (0)	2
Redhorses (Silver - Golden)	0	0	0	0	0	0	0	0	1	0 (1)	1 (1)	2
Burbot	0	0	1	1	0	0	1	0	3	0	6 (0)	6
Lake herring	0	0	0	0	0	0	0	0	0 (3)	0	0 (3)	3

Continued

Table 05. (Concluded)

Species	Station and Date 1 5/6-8	2 5/6-8	3 5/5-7	4 5/23-25	5 5/23-25	6 5/22-24	7 5/22-24	8 5/10-12	9 5/9-11	10 5/11-13	Sub-totals	Total Captured
Lake whitefish	1	0	1	0	0	0	0	0	1	0	3 (0)	3
Longnose sucker	2	0	0	0	0	0	0	0	0	0	2 (0)	2
Chiskellunge	0	0	0	0	1	0	0	0	0	0	1 (0)	1
Rainbow trout	1	0	0	0	0	0	0	0	0	0	1 (0)	1
Sub-totals	37 (152)	36 (60)	24 (56)	21 (0)	57 (92)	29 (55)	31 (64)	54 (50)	51 (48)	126 (124)	466 (701)	1,167
Total Captured	189	96	80	21	149	84	95	104	99	250	1,167	

Table 65. Numbers of fish captured in large mesh trap nets, tagged and released during June 1982 in the St. Marys River. (Parenthetical figures show numbers of fish released without tags.)

Species	Station and Date												
	1 6/18-20	2 6/17-19	3 6/9-11	4* 6/23-25	5 6/23-25	6 6/22-24	7 6/22-24	8 6/4-6	9 6/4-6	10** 6/5-8	11** 6/5-8	Sub-totals	Total Captured
White sucker	97	56	73 (17)	25	50 (255)	90 (2)	89	49 (52)	67 (227)	17 (30)	36 (33)	599 (626)	1,225
Walleye	0	0	18	1	15	1	2 (2)	15	14	66 (25)	12	144 (27)	171
Yellow perch	3	0	2	0	62 (39)	1	4	1	0	3	0	79 (39)	118
Rock bass	0	0	1	0	1	1	0	2	0	0	0	5 (0)	5
Brown bullhead	0	0	0	0	0	0	0	1	0	0	0	1 (0)	1
Northern pike	2	0	2	1	1	0	1	4	3	1	1	16 (0)	16
Smallmouth bass	0	0	0	0	0	2	0	4	0	2	0	8 (0)	8
Channel catfish	0	0	0	0	1	1	0	0	0	0	0	2 (0)	2
Shorthead redhorse	0	0	0	0	4	0	0	0	0	1	0	5 (0)	5
Redhorses (Silver + Golden)	0	0	0	0	1	0	0	0	1	0	1	3 (0)	3
Burbot	0	1	0	0	1	1	0	0	1	0	0	5 (0)	5
Lake herring	0	0	1	0	0	0	0	0	0	0	0	1 (0)	1

Continued

Table 11, (Concluded)

	Station and Date												
	1 6/18-20	2 6/17-19	3 6/9-11	4* 6/23-25	5 6/23-25	6 6/22-24	7 6/22-24	8 6/4-6	9 6/4-6	10** 6/5-8	11** 6/5-8	Sub-totals	Total Captured
Lake whitefish	0	0	2	0	0	0	0	0	0	0	0	2 (0)	2
Common carp	0	0	0	0	0	1	0	0	0	0	0	1 (0)	1
Longnose sucker	0	0	0	0	1	0	0	0	0	0	0	1 (0)	1
Muskellunge	0	0	0	0	0	0	0	0	1	0	0	1 (0)	1
Sub-totals	102 (0)	57 (0)	99 (17)	27 (0)	137 (294)	98 (2)	46 (2)	76 (52)	87 (227)	90 (65)	50 (33)	869 (692)	1,561
Total Captured	102	57	116	27	431	100	48	128	314	155	83	1,561	

* Less than standard 48 hr set due to public interference with net.

** More (72 hr) than standard 48 hr set.

Table 06. Numbers of fish captured in large mesh trap nets, tagged and released during July 1982 in the St. Marys River. (Parenthetical figures show numbers of fish released without tags.)

Species	Station and Date												
	1 7/7-9	2 7/7-9	3 7/6-8	4 7/21-23	5* 7/21-23	6 7/20-22	7 7/20-22	8* 7/14-16	9 7/19-21	10 7/13-15	11* 7/13-15	Sub-totals	Total Captured
White sucker	86 (38)	44	60 (38)	116	98	183 (127)	33 (1)	79	30	15	15	759 (204)	963
Walleye	0	0	12 (1)	12	6	3	5	16	4	86 (2)	23 (2)	167 (5)	172
Yellow perch	11	14	2	1	4 (1)	9	2	0	0	0	0	43 (1)	44
Rock bass	0	0	0	0	0	2	0	6	4	0	0	12 (0)	12
Brown bullhead	0	0	0	8	1	0	0	0	0	0	0	9 (0)	9
Northern pike	1	0	0	1 (2)	2	0	0	1	0	2	2 (1)	9 (3)	12
Smallmouth bass	0	0	0	0	0	0	0	1	0	1	0	2 (0)	2
Channel catfish	0	0	0	0	0	0	0	1	0	0	0	1 (0)	1
Shorthead redhorse	1	0	0	3	2	2	2	0	0	0	0	10 (0)	10
Burbot	0	0	0	0	0	1	0	0	0	0	0	1 (0)	1
Lake whitefish	1	1	0	0	0	0	0	0	0	0	0	2 (0)	2
Common carp	0	0	0	0	0	0	0	0	0	1	0	1 (0)	1
Longnose sucker	0	0	0	0	0	0	0	0	0	0	1	1 (0)	1
Sub totals	100 (38)	59 (0)	74 (39)	141 (2)	113 (1)	200 (127)	42 (1)	104 (0)	38 (0)	105 (2)	41 (3)	1,017 (213)	1,230
Total Captured	138	59	113	143	114	327	43	104	38	107	44	1,230	

*Less than 48 hour standard set due to public interference with nets.

Table 07. Numbers of fish captured in large mesh trap nets, tagged and released during August 1982 in the St. Marys River. (Parenthetical figures show numbers of fish released without tags.)

Species	Station and Date 1 8/19	2 8/19	3 8/18	4 8/26	5 8/26	6 8/25	7 8/25	8 8/6	9 8/6	10 8/11	11 8/11	Sub-totals	Total Captured
White sucker	26 (1)	42 (1)	24	169 (46)	96	90 (62)	91	52	26	16	8	640 (110)	750
Walleye	0	0	8	6	2	3	0	9	5	30 (1)	16	79 (1)	80
Yellow perch	1	37 (1)	2	7	7	10	10	0	3	0	1	78 (1)	79
Rock bass	1	1	13	1	25	32	0	14	8	1	1	97 (0)	97
Brown bullhead	0	0	0	13	23	0	0	9	14	7	0	66 (0)	66
Northern pike	0	0	0	0	0	0	1	1	1	0	2	5 (0)	5
Smallmouth bass	0	0	0	0	0	5	0	7	0	0	0	12 (0)	12
Channel catfish	0	0	0	3	2	6	1	2	3	4	0	21 (0)	21
Shorthead redhorse	0	0	0	0	2	3	2	1	1	8	0	17 (0)	17
Redhorses (Silver - Golden)	0	0	1	0	0	3	1	3	0	1	1	10 (0)	10
Lake whitefish	0	0 (1)	0	0	0	0	1	0	0	0	0	1 (1)	2
Common carp	0	0	0	1	0	0	0	0	0	0	0	1 (0)	1
Sub-totals	28 (1)	80 (3)	48 (0)	200 (46)	157 (0)	152 (62)	107 (0)	98 (0)	61 (0)	67 (1)	29 (0)	1,027 (113)	1,140
Total Captured	29	83	48	246	157	214	107	98	61	68	29	1,140	

Table 06. Numbers of fish captured in large mesh trap nets, tagged and released during September 1982 in the St. Marys River. (Parenthetical figures show numbers of fish released without tags.)

Species	Station and Date 1 9/9	2 9/9	3 9/3	4 9/30	5 9/30	6 9/24	7* 9/29	7-A** 9/29	8 9/17	9 9/16	10 9/23	11 9/23	Sub-totals	Total Captured
White sucker	77	19	46	38	64 (45)	175	41	0 (46)	15	35	2	3	515 (91)	606
Walleye	0	2	8 (1)	5	23	4	1 (1)	13	2	12	34	7	111 (2)	113
Yellow perch	12	4	1	2	12	5	3	6	2	1	4	0	52 (0)	52
Rock bass	1	1	10	1	12	50	2	4 (1)	4	12	2	0	99 (1)	100
Brown bullhead	0	0	0	3	1	0	0	3	3	5	1	0	16 (0)	16
Northern pike	0	0	0	0	1	1 (1)	0	8	2	0	1	1	14 (1)	15
Smallmouth bass	0	0	0	0	0	5	0	0	44	2	0	11	51 (0)	51
Channel catfish	0	0	9	1	1	6	2	0	6	7	2	1	35 (0)	35
Shorthead redhorse	0	0	0	0	13	0	2	0 (7)	2	0	7	1	25 (7)	32
Redhorses (Silver - Golden)	1	1	2	0	2	1	0	0 (1)	9	6	9	3	34 (1)	35
Burbot	0	0	0	0	0	0	0	0	0	0	0	1	1 (0)	1
Lake herring	0	0	0	0	0	0	0	0	0	0	1	0	1 (0)	1

Continued

Table 05. (Concluded)

Species	Station and Date 1 9/9	2 9/9	3 9/3	4 9/30	5 9/30	6 9/24	7* 9/29	7-A** 9/29	8 9/17	9 9/16	10 9/23	11 9/23	Sub-totals	Total Captured
Lake whitefish	1	1	0	0	0	0	0	0	0	0	1	0	3 (0)	3
Longnose sucker	0	0	0	0	0	0	1	0	0	0	0	0	1 (0)	1
Pumpkinseed	0	0	1	0	0	0	0	2 (1)	0	0	0	0	3 (1)	4
Rainbow trout	0	0	0	0	1	0	0	0	0	0	0	0	1 (0)	1
Black crappie	0	0	0	0	0	0	0	0	0	1	0	0	1 (0)	1
Lake sturgeon	0	0	0	0	0	0	0	0	0	1	0	0	1 (0)	1
Sub-totals	92 (0)	28 (0)	77 (1)	50 (0)	130 (45)	247 (1)	52 (1)	36 (56)	89 (0)	82 (0)	64 (0)	17 (0)	964 (104)	1,068
Total Captured	92	28	78	50	175	248	53	92	89	82	64	17	1,068	

* Less than 48 hour standard set due to public interference with nets.

**Station 7-A - used experimental net with 2" stretched mesh in hearts.

Table 69. Number of fish captured in large mesh trap nets, tagged and released during October 1967 in the St. Marys River. (Parenthetical figures show numbers of fish released without tags.)

Species	Station and Date											Total Captured
	1 10/14	2 10/14	3 10/13	4 10/21	5 10/21	6 10/20	7&8 10/20	8 10/6	9 10/5	10 10/6	Subtotals	
White sucker	5	9	76	25	59	100	85	18	20	9	326 (0)	326
Walleye	0	0	29	3	1	3	0	7	10	50 (2)	103 (2)	105
Yellow perch	2	1	0	0	13	2	9	0	0	0	27 (0)	27
Rock bass	1	0	24	1	1	65 (1)	0	0	12	1	105 (1)	106
Brown bullhead	0	0	0	10	5	1	0	2	1	0	19 (0)	19
Northern pike	0	0	0	1	0	0	3	4	0	0	8 (0)	8
Smallmouth bass	0	0	0	0	0	5	0	2	0	0	7 (0)	7
Channel catfish	0	0	0	0	0	0	0	1	5	1	7 (0)	7
Shorthead redhorse	0	0	0	0	0	3	0	1	1	1	6 (0)	6
Redhorse sp. (silver - golden)	1	0	0	0	0	1	1	2	6	2	13 (0)	13
Burbot	0	3	4	5	0	0	2	0	0	0	14 (0)	14
Lake whitefish	0	0	0	0	0	0	0	0	0	1	1 (0)	1
Longnose sucker	0	0	0	0	0	0	1	0	0	0	1 (0)	1
Muskellunge	0	0	0	0	0	0	0	0	1	0	1 (0)	1
Total Catch	59 (0)	13 (0)	133 (0)	53 (0)	69 (0)	185 (1)	51 (0)	37 (0)	56 (0)	60 (2)	658 (3)	661
Total Sets	59	13	133	53	69	186	51	37	56	62	659	

1 Set was not completed at due to public interference with net.
2 Nine percent of net with 2" stretched mesh in heading.

Table 010. Numbers of fish captured in large mesh traps set, tagged and released during November 1982 in the St. Marys River. (Parenthetical figures show numbers of fish released without tags.)

Species	Station and Date												
	1 11/3	2 11/3	3* 11/4	4 11/11	5 11/11	5** 11/18	6 11/11	7 11/11	8 11/7	9* 11/2	10 11/7	Sub-totals	Total Captured
White sucker	40	3	28 (1)	9	9	35	100 (2)	22	14	5	4	269 (3)	272
Walleye	0	0	0	0	0	0	0	0	4	64 (2)	7	75 (2)	77
Yellow perch	0	0	0	0	0	1	2	0	2	0	0	5 (0)	5
Brown bullhead	0	0	0	5	3	0	0	0	15	0	1	24 (0)	24
Northern pike	2	0	4	0	0	0	1	0	9 (1)	0 (1)	0	16 (2)	18
Channel catfish	0	0	0	0	0	0	0	0	0	1	0	1 (0)	1
Shorthead redhorse	0	0	1	0	0	0	0	0	0	0	0	1 (0)	1
Redhorses (Silver - Golden)	0	0	0	0	0	0	0	0	0 (1)	6	0	6 (1)	7
Burbot	0	1	5	8	5	1	6	2	0	1	0	29 (0)	29
Lake herring	0	0	1	0	1 (1)	1	14	0	25 (4)	1	0	43 (5)	48
Lake whitefish	0	0	1	0	0	0	0	0	1	0	0	2 (0)	2
Common carp	0	0	0	0	0	0	0	0	0	4 (1)	0	4 (1)	5
Sub-totals	42 (0)	4 (0)	40 (1)	22 (0)	18 (1)	38 (0)	123 (2)	24 (0)	70 (6)	82 (4)	12 (0)	475 (14)	489
Total Captured	42	4	41	22	19	38	125	24	76	86	12	489	

* Used experimental net with 2" stretched mesh in hearts.

** A 24-hr sample was taken at Station 5 on 11/18/82.

Table VII. Numbers of fish captured in large mesh trap nets, tagged and released during April 1984 in the St. Marys River. (Parenthetical figures show numbers of fish released without tags.)

Species	Station and Date: 9-AB 4/20-21	9-A 4/21-22	9-A 4/25-26	9-A 4/26-27	9-A 4/27-28	9-A 4/28-29	9-B* 4/25-26	9-B 4/26-28	9-B 4/28-29	Sub-totals	Total Captured
White sucker	1	19	0 (58)	0 (47)	1 (168)	0 (49)	0 (35)	0 (262)	0 (33)	21 (652)	673
Walleye	2 (8)	28	97 (88)	102 (55)	0 (75)	1 (118)	93 (115)	151 (276)	3 (245)	477 (980)	1,457
Yellow perch	0	0	0	0	0 (28)	0 (24)	0	3	0 (3)	3 (55)	58
Rock bass	0	0	0	0 (6)	0 (5)	0 (1)	0	0 (1)	0 (7)	0 (20)	20
Brown bullhead	0	0	0	0	0	0 (1)	0	0 (3)	0 (2)	0 (6)	6
Northern pike	0	1	0 (1)	0	0 (2)	0 (3)	2	0	0 (1)	3 (7)	10
Smallmouth bass	0	0	0	1	0	0	0	0	0	1 (0)	1
Channel catfish	2	3	0 (4)	0 (30)	0 (6)	0 (1)	0	0 (9)	0 (6)	7 (56)	63
Steelhead rainbow	0	0	0 (3)	0 (4)	0 (1)	0 (2)	0 (3)	0 (1)	0 (2)	0 (16)	16
Redhorses (Silver + Golden)	0	1	0 (15)	0 (2)	0 (19)	0 (5)	0 (13)	0 (23)	0 (27)	1 (103)	104
Carpet	0	0	0 (1)	0	0	0	0	0 (1)	0	0 (2)	2
Lake herring	0	0	1	0	0	0 (1)	0	0	0	1 (1)	2

Continued

Table 9B1. (Concluded)

Species	Station and Date										
	9-A* 4/20-21	9-A 4/21-22	9-A 4/25-26	9-A 4/26-27	9-A 4/27-28	9-A 4/28-29	9-B* 4/25-26	9-B 4/26-28	9-B 4/28-29	Sub-totals	Total Captured
Lake whitefish	0	0	1	1	0	0	0	0	0	2 (0)	2
Longnose sucker	0	0	0 (1)	0	0	0 (1)	0 (1)	0	0	0 (3)	3
Mimic shiner	0	0	0	0	0 (1)	0 (2)	0	0 (1)	0	0 (4)	4
Trout	0	0 (1)	0	0	2	0	0	0	0	2 (1)	3
Sculpin	0	0	0	0	0	0	0	0	0 (1)	0 (1)	1
Sub-totals	5 (5)	56 (1)	99 (171)	104 (144)	3 (305)	1 (207)	95 (167)	154 (577)	3 (527)	518 (1,907)	2,425
Total Captured	10	57	270	248	308	208	262	731	530	2,425	

*Station 9-A - Lake Munuscony, Reach Point; Station 9-B - Lake Munuscong, Pine Island.

Table 012. Numbers of fish captured in large mesh trap nets, tagged and released during May 1983 in the St. Marys River. (Parenthetical figures show numbers of fish released without tags.)

Species	Station and Date 1-A 5/3-5	3 5/3-5	4 5/24-26	5 5/24-26	6 5/17-19	7-A 5/16-18	8 5/10-12	9 5/16-18	10 5/9-11	12 5/9-11	Sub-totals	Total Captured
White sucker	26	45	23	102 (50)	90 (1)	80	68	91 (36)	26 (1)	30	581 (88)	669
Walleye	0	0	1	0	0	1	5	4	134 (5)	2	147 (5)	152
Yellow perch	0	0	0	5	2	1	0	1	7	1	17 (0)	17
Rock bass	0	0	0	0	5	2	0	1	0	2	10 (0)	10
Northern pike	0	1	3	5	0 (1)	1	82	6	12	83 (3)	193 (4)	197
Smallmouth bass	0	0	0	0	0	0	1	0	0	0	1 (0)	1
Channel catfish	*0*	*0*	*0*	*0*	*0*	*0*	0	0	2	0	2 (0)	2
Redhorses (Silver - Golden)	0	0	0	0	0	0	0	0	1	0	1 (0)	1
Burbot	0	1	6	0	3	2	1	0	1	0	14 (0)	14
Lake herring	0	0	0	0	0	0	0	2	1	0	3 (0)	3
Lake whitefish	9 (1)	0	0	0	0	0	0	1	0	0	10 (1)	11
Longnose sucker	1	12 (1)	0	1	0	0	0	0	0	0	14 (1)	15
Round whitefish	0 (1)	0	0	0	0	0	0	0	0	0	0 (1)	1
Sub-totals	36 (2)	59 (1)	33 (0)	113 (50)	100 (2)	87 (0)	157 (0)	106 (36)	184 (6)	118 (3)	993 (100)	1,093
Total Captured	38	60	33	163	102	87	157	142	190	121	1,093	

Table 013. Numbers of fish captured in large mesh trap nets, tagged and released during June 1983 in the St. Marys River. (Parenthetical figures show numbers of fish released without tags.)

Species	Station and Date															Sub-totals	Total Captured
	1-A 6/15	3 6/14	3 6/15	4 6/21	4 6/22	5 6/21	5 6/22	6 6/23	7-A 6/16	8 6/8	9 6/8	9-B 6/4-5	10 6/9	12 6/2	12 6/3		
White sucker	23	33	42	76 (80)	91 (21)	78 (298)	45 (237)	119 (256)	267 (36)	103	55	0 (10)	25	20	18	995 (938)	1,933
Walleye	0	2	1	1	0	0	2	0	1	9	0 (1)	0 (3)	39 (1)	0	2	57 (5)	62
Yellow perch	2 (1)	0	1	0	2	21	51	4	3	3	1 (1)	0	4	0	1	93 (2)	95
Rock bass	0	0	0	0	0 (1)	0	0	0	0	0	0	0	0	0	0 (1)	0 (2)	2
Brown bullhead	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1 (0)	1
Northern pike	0	0	0	1	3	1	0	0	3	21	22 (1)	0	3	11	5	70 (1)	71
Channel catfish	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1 (0)	1
Shorthead redhorse	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1 (0)	1
Redhorses (Silver - Golden)	0	0	0	0	0	0	0	0	0	1	0	0 (8)	0	0	0	1 (8)	9
Burbot	0	1	0	0	3	0	0	2	1	0	1	0	1	0	0	9 (0)	9
Lake herring	0	0	0	0	0	0	0	0	0	0	0	0	1 (2)	0	0	1 (2)	3
Lake whitefish	0 (1)	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2 (1)	3
Longnose sucker	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2 (0)	2
Sub-totals	26 (2)	36 (0)	44 (0)	79 (80)	100 (22)	100 (298)	98 (237)	125 (256)	275 (36)	139 (0)	79 (1)	0 (21)	73 (3)	32 (0)	27 (1)	1,233 (959)	2,192
Total Captured	28	36	44	159	122	398	335	381	311	139	82	21	76	32	28	2,192	

Table 014. Numbers of fish captured in large mesh trap nets, tagged and released during July 1983 in the St. Marys River. (Parenthetical figures show numbers of fish released without tags.)

Species	Station and Date													
	1-A 7/7	3 7/13	4 7/26	4 7/27	5 7/26	5 7/27	6 7/21	7-A 7/28	8 7/14	9 7/14	10 7/20	12 7/20	Sub-totals	Total Captured
White sucker	32 (3)	95 (45)	63 (160)	46 (61)	52 (83)	35 (28)	199 (3)	53 (1)	20 (2)	67 (78)	33	60 (3)	755 (467)	1,222
Walleye	0	2 (1)	6	2	8	9 (1)	3	12	31 (1)	10	50	37 (1)	170 (4)	174
Yellow perch	10 (1)	1	2	1	3	6	0	4 (1)	0	0	0	6 (2)	33 (4)	37
Rock bass	0	0	0	0	3	6	4	3	10	3	0	1	30 (0)	30
Brown bullhead	0	0	3	5	0	0	0	2	0	0	0	0	10 (0)	10
Northern pike	0	2	0	1	1	3	0	3	1	17 (1)	0	4 (1)	32 (2)	34
Smallmouth bass	0	0	0	0	0	0	0	0	0	0	0	1	1 (0)	1
Channel catfish	0	0	0	0	0	0	0	0	0	4	0	0	4 (0)	4
Shorthead redhorse	0	0	0	1	0	4	2	3	0	0	1	0	11 (0)	11
Redhorses (Silver - Golden)	0	0	1	0	0	0	4	0	0	0	0	0	5 (0)	5
Lake whitefish	4 (1)	0	0	0	0	0	0	0	0	0	0	0	4 (1)	5
Common carp	0	0	0	0	0	0	0	0	0	0	0	1	1 (0)	1
Bowfin	0	0	0	0	0	0	0	0	0	0	0	1	1 (0)	1
Sub-totals	46 (5)	100 (46)	75 (160)	56 (61)	67 (83)	63 (29)	212 (3)	80 (2)	62 (3)	101 (79)	84 (0)	111 (7)	1,057 (478)	1,535
Total Captured	51	146	235	117	150	92	215	82	65	180	84	118	1,535	

Table 015. Numbers of fish captured in large mesh trap nets, tagged and released during August 1981 in the St. Marys River. (Parenthetical figures show numbers of fish released without tags.)

Species	Station and Date													
	1-A 8/12	3 8/10	4 8/23	4 8/24	5 8/25	6 8/31	6-A 8/25	7-A 8/26	8 8/4	9 8/11	10 8/3	12 8/3	Sub-totals	Total Captured
White sucker	56	39	79 (161)	2 (132)	98 (4)	74 (1)	24	61	10	29	13	34	519 (298)	817
Walleye	0	15 (2)	2	4	9 (2)	2	0	5	3	6	33 (1)	24 (1)	103 (6)	109
Yellow perch	17 (2)	1	3	0	4	0	1	3 (1)	0 (1)	0	1	2	32 (4)	36
Rock bass	0	10	2	2	12	41 (1)	3	15	6	9	3	15	118 (1)	119
Brown bullhead	0	0	5	6	4	1	2	4	4	1	3	38	68 (0)	68
Northern pike	0	0	1	1	3	2	2	1	2	7	3 (1)	6	28 (1)	29
Smallmouth bass	0	0	0	0	0	2	0	1	10 (4)	1	3 (1)	8	25 (5)	30
Channel catfish	0	0	7	3	1	1	3	1	1	6	0	2	25 (0)	25
Shorthead redhorse	0	0	3	0	6	1	4	3	2 (1)	1	5	0	25 (1)	26
Redhorses (Silver - Golden)	0	2	0	1	3	0	0	0	0	1	1	1	9 (0)	9
Lake whitefish	3	0	0	0	0	0	0	0	0	0	0	0	3 (0)	3
Pumpkinseed	0	0	0	0	0	1	0	1	0	0	0	0	2 (0)	2
Sub-totals	76 (2)	67 (2)	102 (161)	19 (132)	140 (6)	125 (2)	39 (0)	95 (1)	38 (6)	61 (0)	65 (3)	130 (1)	957 (316)	1,273
Total Captured	78	69	263	151	146	127	39	96	44	61	68	131	1,273	

Table 016. Numbers of fish captured in large mesh trap nets, tagged and released during September 1983 in the St. Marys River. (Parenthetical figures show numbers of fish released without tags.)

Species	Station and Date												Sub-totals	Total Captured
	1-A 9/8	3 9/8	4 9/21	5 9/20	5 9/21	6 9/22	7-A 9/28	8 9/13	8 9/14	9 9/9	10 9/15	12 9/14		
White sucker	7	58 (2)	3 (142)	1 (50)	0 (37)	14 (128)	2 (82)	6	13	44	12 (1)	14	174 (442)	616
Walleye	3	7	14 (4)	10	11 (3)	9 (2)	26 (2)	5	4	8 (4)	62 (1)	57 (8)	216 (24)	240
Yellow perch	9 (4)	0 (1)	3 (2)	4	5	4	19	0	0 (2)	3	7	2	56 (9)	65
Rock bass	8 (2)	14 (2)	9	15	11 (4)	2 (44)	16	4 (1)	9	20 (1)	9	11	128 (54)	182
Brown bullhead	0	2	1	28 (5)	11 (23)	0 (1)	10	15	9	14 (1)	21	19 (1)	130 (31)	161
Northern pike	2 (1)	4	1	1	3	0	5	11	9 (1)	3 (3)	4 (2)	5 (3)	48 (10)	58
Smallmouth bass	1	1	1	12	4	37	6	69	23	48 (1)	9	3	214 (1)	215
Channel catfish	0	5	6	6 (4)	0 (8)	0 (18)	3	5	7	9	10	7	58 (30)	88
Shorthead redhorse	0	2	2	2	1 (2)	0 (3)	10	0	2	3	6	2	30 (5)	35
Redhorses (Silver - Golden)	0	5	9	4	2 (3)	0 (12)	1	1	5	3	7	1	38 (15)	53
Lake whitefish	4	0	0	0	0	0	0	0	0	0	0	0	4 (0)	4
Pumpkinseed	0	1	0	0	1	0	0	0	0	1	0	4	7 (0)	7
Black crappie	0	0	0	0	0	0	1	0	0	1	0	0	2 (0)	2
Bowfin	0	0	0	0	0	0	0	0	1	0	1	0	2 (0)	2
Sub-totals	34 (7)	99 (5)	49 (148)	83 (59)	49 (80)	66 (208)	99 (84)	116 (1)	82 (3)	157 (10)	148 (4)	125 (12)	1,107 (621)	1,728
Total Captured	41	104	197	142	129	274	183	117	85	167	152	137	1,728	

Table 017. Numbers of fish captured in large mesh trap nets, tagged and released during October 1981 in the St. Marys River. (Parenthetical figures show numbers of fish released without tags.)

Species	Station and Date														
	1-A 10/13	3 10/12	3 10/18	4 10/19	5 10/18	5 10/19	6 10/17	7-A 10/20	8 10/7	9 10/12	9 10/12-17	10 10/6	12 10/7	Sub-totals	Total Captured
White sucker	2	31	83	53	24	14	38 (28)	65	12	22	0 (8)	4 (2)	10	358 (38)	396
Walleye	1	3	13	9	3	5	5	8	10 (1)	34	0 (20)	15	0	106 (21)	127
Yellow perch	0	2 (1)	0	3	2 (1)	0	2	6	4 (1)	5 (2)	0 (3)	5	2	31 (8)	39
Rock bass	1	10 (1)	1	0	0	1	28 (9)	9	2	3	0	4	13 (1)	72 (11)	83
Brown bullhead	0	2	0	2	1	1	1	1	7	2	0 (7)	2	33	52 (7)	59
Northern pike	3	3	3	2	1	1	0	5	7	5 (1)	0 (2)	3	6	39 (3)	42
Smallmouth bass	0	1	0	0	0	0	28	0	6	3	0 (1)	2	4	44 (1)	45
Channel catfish	0	0	0	0	0	0	2 (1)	0	14	6	0 (5)	10	0	32 (6)	38
Shorthead redhorse	0	0	1	3	1	1	4	5	1	2	0	3 (1)	0	21 (1)	22
Redhorses (Silver - Golden)	0	0 (4)	5	0	1	3	11 (2)	6	11	3	0 (7)	2 (5)	0	42 (17)	59
Burbot	0	2	2	0	0	0	3	1	0	4	0 (2)	0	0	12 (2)	14
Lake herring	0	0	0	0	1	0	0	1	0	0	0	0	0	2 (0)	2

Continued

Table 017. (Concluded)

Species	Station and Date													Sub-totals	Total Captured
	1-A 10/13	3 10/12	4 10/18	4 10/19	5 10/18	5 10/19	6 10/17	7-A 10/20	8 10/7	9 10/12	9 10/12-17	10 10/6	12 10/7		
Lake whitefish	0	1	0	0	0	0	4	0	0	1	2	0	0	8 (0)	8
Common carp	0	0	0	0	0	0	0	0	1	1 (1)	0 (2)	0	0	2 (3)	5
Pumpkinseed	0	0	0	2	0	0	0	0	0	0	0 (1)	0	1	3 (1)	4
Black crappie	0	0	0	0	0	0	0	0	0	0 (1)	0	0 (1)	0	0 (2)	2
Sub-totals	7 (0)	55 (5)	108 (0)	74 (0)	34 (1)	26 (0)	126 (40)	107 (0)	75 (2)	91 (5)	2 (58)	50 (9)	69 (1)	824 (121)	945
Total Captured	7	60	108	74	35	26	166	107	77	96	60	59	70	945	

Table 018. Numbers of fish captured in large mesh trap nets, tagged and released during November 1983 in the St. Marys River. (Parenthetical figures show numbers of fish released without tags.)

Species	Station and Date											
	1-A 11/2	3 11/2	4 11/10	5 11/10	6 11/8	7-A 11/8	8 11/4	9 11/4	10 11/7	12 11/7	Sub-totals	Total Captured
White sucker	43	9	30	66	75	39	24	2	11	4	303	
	(1)			(2)		(1)					(4)	307
Walleye	0	2	3	4	1	10	0	78	17	0	115	
											(0)	115
Yellow perch	5	1	10	7	3	10	15	1	4	9	65	
	(1)										(1)	66
Rock bass	0	0	0	0	7	4	0	0	0	2	13	
											(0)	13
Brown bullhead	0	2	10	11	0	1	8	1	1	5	39	
										(3)	(3)	42
Northern pike	1	1	0	2	1	15	6	0	2	5	33	
	(1)					(1)		(2)		(1)	(5)	38
Smallmouth bass	0	0	0	0	1	0	0	0	0	0	1	
											(0)	1
Channel catfish	0	0	0	0	0	0	0	17	0	0	17	
											(0)	17
Shorthead redhorse	0	1	0	1	1	3	2	2	1	0	11	
											(0)	11
Redhorses (Silver - Golden)	0	2	0	2	1	1	5	27	0	0	38	
											(0)	38
Burbot	0	1	5	2	3	3	2	0	1	0	17	
											(0)	17
Lake herring	0	4	2	3	0	0	3	0	0	0	12	
											(0)	12
Lake whitefish	0	1	3	0	4	0	1	0	1	0	10	
											(0)	10
Common carp	0	0	0	0	0	0	0	1	0	0	1	
											(0)	1
Longnose sucker	1	0	0	0	0	0	1	0	0	0	2	
											(0)	2
Sub-totals	50	24	63	98	97	86	67	129	38	25	677	
	(3)	(0)	(0)	(2)	(0)	(2)	(0)	(2)	(0)	(4)	(13)	690
Total Captured	53	24	63	100	97	88	67	131	38	29	690	

Appendix P. Physical-chemical data collected during fish distribution and movement studies on the St. Marys River during 1982 and 1983.

Table P1. Clarification of large trap net sampling station designations to conform to stations used in the text.

	STATIONS						
Appendix Designation	BP	PAP	VS	U4E	U5E	L4W	L5E
	1	1-A	2	3	3	5	6
Text Designation	I	I-A	I-B	II	II-A	II-B	II-C

	STATIONS							
Appendix Designation	7E		9E	U8W	MB	L8W		RI
	7	7-A	8	9	9-A, B	10	11	12
Text Designation	III	III-A	IV	IV-A	V, V-A	VI	VI-A	VII

Table P2. Mean annual dissolved oxygen values (ppm), for each station, and dissolved oxygen values, for each trap net sample in 1982 and 1983.

Month	COURSE - STATION BP 1	PAP 1A	VS 2	U4E 3	U5E 4	L4W 5	L5E 6
1982							
May[1]	12.7	-	12.0	12.0	10.2	10.2	10.2
June	9.6	-	11.6	10.8	11.3	11.3	11.3
July	9.8	-	10.9	10.2	10.6	10.4	10.2
Aug.	9.5	-	9.6	9.6	9.6	9.4	9.6
Sept.	10.1	-	10.0	9.9	10.2	10.3	11.2
Oct.	10.7	-	10.7	10.9	11.1	11.7	12.1
Nov.	11.2	-	11.3	11.1	11.7	12.1	12.0
Mean ± S.D.	10.5 ± 1.1	-	10.9 ± 0.9	10.6 ± 0.8	10.7 ± 0.7	10.8 ± 0.9	10.9 ± 1.0
1983							
April	-	-	-	-	-	-	-
May	-	12.5	-	13.1	13.7	13.8	14.6
June	-	12.8	-	12.6	12.7	12.3	12.5
July	-	10.9	-	10.5	10.4	10.6	10.0
Aug.	-	9.1	-	9.0	9.5	9.4	9.6
Sept.	-	8.8	-	8.9	9.7	9.7	9.7
Oct.	-	10.4	-	10.3	10.5	10.6	10.4
Nov.	-	11.3	-	11.4	11.2	11.1	11.9
Mean ± S.D.	-	10.8 ± 1.5	-	10.8 ± 1.6	11.1 ± 1.6	11.1 ± 1.5	11.2 ± 1.9

Continued

Table P2. (Concluded)

Month	COURSE - STATION 7E 7	7E 7A	9E 8	U8W 9	MB 9A,9B	L8W 10	L8W 11	RI 12
1982								
May[1]	12.0	-	14.4	12.0	-	12.5	-	-
June	11.7	-	10.6	11.7	-	11.0	-	-
July	10.1	-	11.8	10.4	-	9.1	9.2	-
Aug.	9.5	-	9.0	9.9	-	9.9	9.8	-
Sept.	10.6	10.6	11.4	9.8	-	10.7	10.2	-
Oct.	12.0	-	11.1	11.2	-	11.2	-	-
Nov.	12.0	-	11.7	12.0	-	11.4	-	-
Mean ± S.D.	11.1 ± 1.0	-	11.4 ± 1.6	11.0 ± 1.0	-	10.8 ± 1.1	-	-
1983								
April	-	-	-	-	12.7	-	-	-
May	-	13.6	13.7	13.6	-	12.9	-	13.0
June	-	12.8	12.8	12.7	10.0	11.8	-	12.7
July	-	10.3	11.3	10.7	-	9.8	-	10.0
Aug.	-	9.6	9.3	9.2	-	8.2	-	8.9
Sept.	-	10.1	9.4	9.4	-	9.5	-	9.9
Oct.	-	10.8	9.6	10.5	-	10.1	-	9.3
Nov.	-	11.2	11.7	12.0	-	12.6	-	12.0
Mean ± S.D.	-	11.2 ± 1.5	11.1 ± 1.7	11.1 ± 1.7	-	10.6 ± 1.7	-	10.8 ± 1.7

[1] May readings collected within one week of actual sample.

Table P3. Mean annual bottom water temperatures, for each station, and average bottom temperatures, for each trap net sample in 1982 and 1983.

Month	COURSE - STATION BP 1	PAP 1A	VS 2	U4E 3	U5E 4	I.4W 5	I.5E 6
1982							
May	4.0[1]	-	3.8[1]	4.5	6.4	6.3	7.5
June	9.6	-	8.5	9.0	10.5	10.6	10.8
July	16.5	-	13.9	14.5	15.3	15.3	7.4
Aug.	18.1	-	17.1	14.3	17.0	17.1	17.0
Sept.	15.1	-	14.7	14.9	13.3	13.4	13.3
Oct.	11.5	-	10.7	11.5	9.7	9.7	9.7
Nov.	9.1	-	9.1	8.9	6.6	6.5	6.7
Mean ± S.D.	12.0 ± 4.7	-	11.1 ± 4.3	11.1 ± 3.9	11.3 ± 4.0	11.3 ± 3.8	11.4 ± 3.7
1983							
April	-	-	-	-	-	-	-
May	-	5.8	-	4.1	5.5	5.6	6.0
June	-	9.6	-	9.3	11.4	11.8	12.0
July	-	14.9	-	16.3	19.5	19.9	19.0
Aug.	-	21.0	-	22.2	20.3	19.4	21.0
Sept.	-	20.1	-	20.5	16.5	16.5	16.0
Oct.	-	13.0	-	12.9	11.0	11.0	12.9
Nov.[2]	-	9.3	-	9.5	8.5	8.7	8.5
Mean ± S.D.	-	13.4 ± 5.5	-	13.6 ± 6.2	13.2 ± 5.5	13.3 ± 5.3	13.6 ± 5.3

Continued

Table P3. (Concluded)

Month	COURSE - STATION 7E 7	7E 7A	9E 8	U8W 9	MB 9A,9B	I8W 10	I8W 11	RI 12
1982								
May	6.4	-	8.0[1]	6.2[1]	-	7.8[1]	-	-
June	10.1	-	10.4	8.3	-	11.3	10.7	-
July	15.7	-	14.9[1]	15.3	-	15.3	15.0	-
Aug.	16.9	-	17.9	17.1	-	16.8	16.5	-
Sept.	13.1	13.3	14.1	14.7	-	12.4	12.9	-
Oct.	9.7	-	13.1	12.7	-	13.1	-	-
Nov.	6.8	-	7.1	7.7	-	7.2	-	-
Mean ± S.D.	11.2 ± 4.0	-	12.2 ± 3.8	11.8 ± 4.0	-	12.0 ± 3.5	-	-
1983								
April	-	-	-	-	6.2	-	-	-
May	-	5.5	6.0	5.7	-	5.9	-	6.2
June	-	10.1	7.7	7.7	14.0	10.2	-	9.0
July	-	20.1	18.3	18.3	-	21.9	-	21.3
Aug.	-	20.5	21.0	22.3	-	22.5	-	22.2
Sept.	-	15.4	18.6	20.4	-	17.6	-	17.2
Oct.	-	10.0	14.3	13.1	-	14.7	-	14.2
Nov.[2]	-	8.5	7.7	8.5	-	5.7	-	7.3
Mean ± S.D.	-	12.9 ± 5.7	13.3 ± 5.9	13.7 ± 6.4	-	14.1 ± 6.8	-	13.9 ± 6.3

[1] Temperatures taken on day of lift only.

[2] Temperatures taken at surface.

Table P4. Mean annual secchi disc values (m), for each station, and average secchi disc values, for each trap net sample in 1982 and 1983.

Month	COURSE - STATION BP 1	PAP 1A	VS 2	U4E 3	U5E 4	L4W 5	L5E 6
1982							
May	3.0[1]	-	6.0[1]	3.7	3.6	3.3	3.1
June	2.3	-	3.0	2.3	3.5	3.5	3.0
July	2.5	-	3.0	2.3	5.5[1]	3.4	3.5
Aug.	2.5	-	6.0	3.3	3.0	3.5	2.5
Sept.	2.8	-	4.7	2.5	3.5	3.0	4.0
Oct.	2.5	-	6.5	3.5[1]	4.3	3.0	2.7
Nov.	2.5	-	6.3	6.0[1]	4.0	2.6	3.0
Mean ± S.D.	2.6 ± 0.3*	-	5.1 ± 1.7	3.4 ± 1.5	3.9 ± 0.9	3.2 ± 0.6	3.1 ± 0.5
1983							
April	-	-	-	-	-	-	-
May	-	0.4	-	4.0	4.9	3.4	3.5
June	-	3.5	-	6.2	4.8	3.5	3.5
July	-	1.5	-	3.0	4.3	3.5	3.3
Aug.	-	2.5	-	2.3	3.0	3.3	2.5
Sept.	-	1.7	-	2.0	2.7	2.5	2.0
Oct.	-	4.0	-	2.0	2.7	2.7	1.5
Nov.	-	2.5	-	3.3	4.5	3.0	3.0
Mean ± S.D.	-	2.2 ± 1.4	-	3.1 ± 1.4	3.8 ± 1.1	3.1 ± 0.5	2.7 ± 0.8

Continued

Table P4. (Concluded)

Month	COURSE - STATION 7E 7	7A	9E 8	U8W 9	MB 9A,9B	L8W 10	11	RI 12
1982								
May	3.3	-	0.4	0.3	-	0.5	-	-
June	3.3	-	1.7	2.3	-	0.5	1.4	-
July	3.5	-	1.0	1.7	-	1.0	1.3	-
Aug.	2.5	-	0.5[1]	1.7	-	0.7	1.0	-
Sept.	3.3	2.3	1.5	2.0[1]	-	1.5	2.0	-
Oct.	3.5	-	2.0[1]	2.5[1]	-	0.7	-	-
Nov.	3.7	-	0.7	2.3	-	1.5	-	-
Mean + S.D.	3.3 ± 0.6	-	1.1 ± 0.7	1.8 ± 0.7	-	0.9 ± 0.5	-	-
1983								
April	-	-	-	-	0.9	-	-	-
May	-	4.7	2.7	3.0	-	0.5	-	2.6
June	-	4.9	3.0[1]	3.5[1]	-	0.9	-	2.5
July	-	2.5	1.3	2.3	-	1.0	-	2.0
Aug.	-	2.5	1.7	1.5	-	1.0	-	1.5
Sept.	-	2.3	1.5	1.7	-	1.3	-	1.3
Oct.	-	1.8	1.5	0.9	-	1.0	-	1.3
Nov.	-	3.0	1.7	1.5	-	1.0	-	2.0
Mean + S.D.	-	3.1 ± 1.2	1.9 ± 0.7	2.0 ± 1.0	-	0.9 ± 0.3	-	1.9 ± 0.7

[1] Secchi disc readings collected only on day of lift.

Table P5. Mean annual turbidity values (NTU), for each station, and average turbidity values, for each trap net sample in 1982 and 1983.

	COURSE - STATION						
Month	BP 1	PAP 1A	VS 2	U4E 3	U5E 4	L4W 5	L5E 6
1982							
May	2.4[1]	-	2.0	4.4[1]	1.6	2.1	2.3
June	1.2	-	3.7	2.9	0.7	0.8	0.9
July	1.5	-	1.1	1.8[1]	0.9	0.9	1.3
Aug.	0.5	-	0.5	1.3	1.3	1.3	2.0
Sept.	0.9	-	0.6[1]	1.5	1.3	1.4	1.7
Oct.	1.1	-	0.6	1.1	1.2	1.5	1.2
Nov.	1.1	-	0.7	0.9	1.0	1.7	0.9
Mean ± S.D.	1.2 ± 0.6	-	1.3 ± 1.1	2.0 ± 1.2	1.1 ± 0.3	1.4 ± 0.4	1.4 ± 0.6
1983							
April	-	-	-	-	-	-	-
May	-	18.0	-	1.9	0.9	1.1	1.5
June	-	1.6	-	1.6	0.8	1.1	1.5
July	-	4.7	-	1.7	1.4	2.3	1.6
Aug.	-	3.5	-	1.9	2.1	2.0	2.3
Sept.	-	4.1	-	2.2	2.2	2.3	2.9
Oct.	-	1.9	-	2.1	1.6	2.1	2.7
Nov.	-	3.1	-	1.9	2.0	2.4	1.8
Mean ± S.D.	-	5.3 ± 5.7	-	1.9 ± 0.4	1.6 ± 0.7	1.9 ± 0.8	2.1 ± 0.7

Continued

Table P5. (Concluded)

Month	COURSE - STATION 7E 7	7E 7A	9E 8	U8W 9	MB 9A, 9B	L8W 10	L8W 11	RI 12
1982								
May	1.8	-	6.9[1]	14.3	-	6.7	-	-
June	1.0	-	4.1	2.5	-	10.9	3.4	-
July	1.3	-	11.9	2.1	-	5.5	5.3	-
Aug.	1.7	-	9.0	2.4	-	7.8	4.5	-
Sept.	1.7	2.2	4.1	2.9	-	5.2	3.5	-
Oct.	1.3	-	3.3	2.0	-	10.5	-	-
Nov.	1.1	-	5.9	1.7	-	4.0	-	-
Mean ± S.D.	1.4 ± 0.4	-	6.5 ± 4.5	4.0 ± 4.6	-	7.2 ± 3.3	-	-
1983								
April	-	-	-	-	14.5	-	-	-
May	-	1.3	2.1	1.9	-	11.4	-	2.6
June	-	1.5	1.6	2.5	-	8.1	-	3.0
July	-	2.3	4.3	2.4	-	7.2	-	2.9
Aug.	-	2.7	3.7	2.6	-	6.1	-	3.7
Sept.	-	2.5	3.9	2.9	-	3.1	-	4.1
Oct.	-	2.7	4.0	5.1	-	6.1	-	5.1
Nov.	-	1.9	4.0	3.3	-	11.5	-	4.1
Mean ± S.D.	-	2.1 ± 0.6	3.5 ± 1.2	3.1 ± 1.8	-	7.8 ± 4.3	-	3.6 ± 1.2

[1] Turbidity samples collected on day of lift only.

END

10-81

DTIC