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APPENDIX E

Impingement and entrainment estimates for the Monroe Power Plant based on $\log_{10}(x + 1)$ transformation and counts from Detroit Edison's daily impingement and entrainment data sheets.

Table E-1. Estimates of impingement at the Monroe Power Plant for June 1975-May 1976 based on $\log_{10} (x + 1)$ transformation of daily estimates calculated from Detroit Edison's daily impingement data sheets.

Table E-2. Estimates of entrainment of fish eggs and larvae at the Monroe Power Plant for April 1975-May 1976 based on $\log_{10} (x + 1)$ transformation of counts from Detroit Edison's daily entrainment data sheets.

Table E-3. Estimates of entrainment of macrozoobenthos at the Monroe Power Plant for May 1975-April 1976 based on $\log_{10} (x + 1)$ transformation of counts from Detroit Edison's daily entrainment data sheets.

5-E (MI)	11.	0.	0.	0.	0.	6.	3.	4.	0.	0.	0.	1.	0.	0.	13.
95 UCI	18.	0.	0.	0.	11.	5.	8.	0.	0.	0.	3.	0.	0.	0.	27.
90 UCI	18.	0.	0.	0.	12.	6.	8.	0.	0.	0.	3.	0.	0.	0.	28.
90 UCI	20.	0.	0.	0.	10.	5.	7.	0.	0.	0.	2.	0.	0.	0.	18.
90 UCI	20.	0.	0.	0.	10.	5.	7.	0.	0.	0.	2.	0.	0.	0.	22.
SHELF															
5-E (LOI)	77	82	15	25	3800	1515	829	193	279	3	172	518	13655	0.3	
5-E (MI)	39.	35.	11.	13.	1666.	1500.	328.	61.	103.	3.	53.	128.	2627.		
95 UCI	62.	50.	14.	16.	2968.	2364.	510.	61.	171.	4.	72.	182.	3825.		
95 UCI	89.	74.	24.	29.	3598.	3888.	715.	131.	227.	7.	112.	266.	4966.		
95 UCI	141.	107.	31.	38.	6367.	5108.	1156.	180.	377.	8.	152.	365.	7654.		
90 UCI	72.	61.	19.	24.	2950.	3102.	585.	100.	185.	6.	93.	219.	4149.		
90 UCI	114.	88.	25.	31.	3220.	4107.	945.	148.	308.	6.	125.	284.	6196.		
NORTHERN PIKE															
5-E (LOI)	15	5	0	10	10	2	11	4	10	4	13	7	54	50.1	
5-E (MI)	15	4	0	0	0	0	0	0	0	0	0	0	0	0	
95 UCI	25	7	0	16	17	5	18	5	10	5	8	7	22	0	
95 UCI	35	8	0	19	21	5	23	8	10	3	17	10	45	0	
90 UCI	21	6	0	13	14	4	15	6	13	1	12	11	38	0	
90 UCI	28	7	0	16	17	4	19	7	19	0	15	9	47	0	
MORZELLANCE															
5-E (LOI)	8	18	0	5	0	2	3	0	0	0	0	0	31	40.1	
5-E (MI)	8	9	0	5	0	2	3	0	0	0	0	0	0	0	
95 UCI	10	11	0	4	0	2	4	0	0	0	0	0	0	0	
95 UCI	18	22	0	8	0	5	8	0	0	0	0	0	0	0	
90 UCI	23	28	0	9	0	5	8	0	0	0	0	0	0	0	
90 UCI	15	16	0	8	0	4	5	0	0	0	0	0	0	0	
90 UCI	19	20	0	7	0	4	7	0	0	0	0	0	0	0	
GOLDFISH															
5-E (LOI)	209	215	712	291	156	132	2180	1833	1870	4212	887	184	11818	0.4	
5-E (MI)	75.	81.	83.	91.	56	40	610	387	268.	916.	1009.	286.	41.	1137.	
95 UCI	110.	120.	125.	123.	61.	49.	387.	268.	916.	1009.	286.	41.	1137.		
95 UCI	170.	174.	186.	195.	89.	66.	717.	643.	1390.	1737.	459.	81.	15074.		
95 UCI	259.	258.	279.	273.	131.	106.	853.	378.	2082.	2159.	511.	108.	2914.		
90 UCI	138.	142.	150.	160.	81.	70.	587.	378.	1136.	1479.	359.	72.	1900.		
90 UCI	202.	212.	221.	225.	107.	87.	659.	572.	1679.	1768.	462.	83.	2518.		
CARP															
5-E (LOI)	0	15	7	44	2	5	64	23	182	233	9	2	536	40.1	
5-E (MI)	0	10.	7.	23.	2.	4.	30.	12.	92.	72.	5.	2.	124.		
95 UCI	0	12.	8.	33.	2.	4.	44.	15.	144.	100.	5.	7.	201.		
95 UCI	0	20.	15.	57.	4.	6.	62.	26.	203.	155.	10.	4.	254.		
90 UCI	0	17.	12.	48.	2.	4.	55.	20.	160.	113.	8.	4.	208.		
90 UCI	0	21.	15.	50.	4.	7.	33.	15.	153.	177.	8.	3.	208.		
SHINER															
5-E (LOI)	74763	85708	67008	48108	53287	27784	26514	17754	37871	27979	49248	30970	54033.	20.5	
5-E (MI)	13159.	14596.	27663.	8305.	6085.	6019.	6425.	2891.	2471.	7607.	9282.	7426.	40302.		
95 UCI	15968.	22501.	34249.	10036.	10950.	9470.	9039.	3539.	17022.	11393.	10117.	55063.			
95 UCI	29765.	42033.	50305.	17815.	17464.	14779.	18359.	674.	20866.	16879.	19584.	16780.	80324.		
95 UCI	30424.	54856.	71301.	21522.	26555.	13225.	23850.	3452.	29501.	25612.	24018.	21560.	110182.		
90 UCI	24120.	34508.	41075.	16626.	14319.	12077.	19014.	5119.	17010.	13844.	16150.	13368.	67453.		
90 UCI	29270.	44733.	62000.	17669.	18771.	16008.	19517.	6112.	23931.	21075.	13896.	17730.	92066.		
WHITE SUCKER															
5-E (LOI)	14	11	15	18	13	8	9	3	15	6	11	126	40.1		
5-E (MI)	10.	8.	14.	14.	12.	5.	6.	2.	3.	2.	8.	5.	26.		
95 UCI	23.	18.	28.	28.	20.	13.	18.	7.	10.	5.	6.	3.	30.		
95 UCI	30.	18.	31.	32.	26.	16.	17.	8.	7.	20.	11.	12.	68.		

	19.	20.	21.	11.	12.	4.	5.	6.	17.	9.	10.	9.	44.
.90 UCI	74.	11.	25.	26.	21.	13.	14.	5.	6.	17.	9.	10.	55.
BLACK BULLHEAD													
S.E. ILOI	0	0	0	0	0	0	0	0	0	0	0	0	0
S.E. IHI	0	0	0	0	0	0	0	0	0	0	0	0	0
.95 UCI	0	0	0	0	0	0	0	0	0	0	0	0	0
.90 UCI	0	0	0	0	0	0	0	0	0	0	0	0	0
.90 UCI	0	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW BULLHEAD													
S.E. ILOI	6	7	0	75	8	2	37	100	136	57	35	475	<0.1
S.E. IHI	6	6	0	17	6	2	14	18	45	43	20	10	475
.95 UCI	7	7	0	16	7	3	18	24	48	58	26	12	101
.90 UCI	12	12	0	26	13	5	30	38	98	52	42	21	163
.95 UCI	15	14	0	34	15	6	40	52	150	124	55	26	201
.90 UCI	19	19	0	21	19	4	25	31	80	154	35	18	119
.90 UCI	12	12	0	28	12	5	32	43	122	102	46	21	168
BROWN BULLHEAD													
S.E. ILOI	20	7	0	0	0	0	5	0	0	0	0	3	4
S.E. IHI	7	7	0	0	0	0	5	0	0	0	0	3	4
.95 UCI	2	2	0	0	0	0	0	0	0	0	0	0	0
.90 UCI	3	3	0	0	0	0	11	10	0	0	0	7	8
.90 UCI	4	4	0	0	0	0	3	11	0	0	0	8	9
.90 UCI	2	2	0	0	0	0	0	0	0	0	0	7	9
.90 UCI	6	6	0	0	0	0	0	0	0	0	0	7	25
CHANNEL CATFISH													
S.E. ILOI	19	90	105	515	48	58	748	182	737	61	67	19	31
S.E. IHI	13	30	41	153	19	24	37	45	102	22	22	18	2128
.95 UCI	18	40	59	213	24	32	111	58	149	29	28	10	3128
.90 UCI	28	65	92	329	40	51	212	98	274	47	44	18	448
.95 UCI	40	84	132	458	53	69	242	125	372	62	59	21	628
.90 UCI	24	53	75	279	31	42	173	81	183	39	38	15	374
.90 UCI	32	70	108	376	43	57	199	102	303	51	49	18	525
TROUT-PERCH													
S.E. ILOI	4420	646	157	167	01	34	321	2386	7405	3321	137	15152	0.6
S.E. IHI	1306	145	17	21	20	270	496	907	1392	35	2130		
.95 UCI	1988	205	164	77	34	376	642	1637	1619	54	3179		
.90 UCI	3158	311	194	112	68	47	262	1273	1104	319	45	4262	
.95 UCI	4510	440	309	105	101	62	1139	1323	1104	319	45	4262	
.90 UCI	2559	256	158	97	101	55	35	455	801	1710	1900	45	6300
.90 UCI	3655	361	320	136	148	75	51	954	1120	2908	2018	74	5312
WHITE BASS													
S.E. ILOI	419	12859	84901	52310	4842	1250	1003	131	133	73	141	143	159205
S.E. IHI	134	7953	24369	12644	995	240	312	51	51	32	43	29	27177
.95 UCI	180	18006	34174	13301	1250	295	449	76	75	46	58	34	41164
.90 UCI	297	10357	32923	2781	2149	518	682	116	113	68	91	61	55581
.95 UCI	245	14095	44153	1875	1709	637	979	160	166	98	121	73	42808
.90 UCI	348	32768	81925	25724	3214	301	370	32	56	75	50	68663	
ROCK BASS													
S.E. ILOI	181	57	121	105	23	11	15	0	34	142	114	57	487
S.E. IHI	79	26	58	40	12	7	11	0	16	52	25	20	127
.95 UCI	127	37	93	57	15	6	15	0	22	72	30	26	193
.90 UCI	174	56	129	86	26	14	24	0	36	112	52	43	255
.95 UCI	288	79	208	132	33	17	32	0	49	154	63	56	388
.90 UCI	145	46	105	70	21	12	20	0	29	92	43	35	211
.90 UCI	233	65	169	100	27	14	26	0	40	126	52	46	321
.90 UCI	157	167	101	235	168	192	74	121	112	156	51	54	2338

5-E (ILO)	68	57	48	75	62	95	189	45	55	48	18	17	250
5-E (HI)	104	87	76	104	90	73	272	67	80	64	22	21	355
5-E (LC)	153	123	107	161	139	119	412	91	100	102	32	30	514
5-E (UC)	241	172	170	224	195	158	550	139	150	152	37	46	708
5-E (LCI)	124	101	87	110	107	87	337	80	80	88	31	30	428
5-E (UCI)	195	141	139	184	160	130	450	114	118	117	31	38	592
5-E (ILO)	14	0	7	8	25	36	0	13	0	0	0	0	108 <0.1
5-E (HI)	14	0	7	5	13	19	0	9	0	0	1	3	108 <0.1
5-E (LC)	20	0	8	5	17	27	0	12	0	0	0	1	30
5-E (UC)	44	0	13	10	29	41	0	20	0	0	0	3	40
5-E (LCI)	25	0	19	11	38	57	0	23	0	0	0	3	40
5-E (UCI)	37	0	12	8	24	34	0	18	0	0	0	2	5
5-E (ILO)	8	0	7	0	21	47	0	21	0	0	0	3	5
5-E (HI)	8	0	7	0	2	15	0	0	0	0	0	10	46 <0.1
5-E (LC)	11	0	8	0	2	11	0	0	0	0	0	5	17
5-E (UC)	19	0	15	0	4	5	0	0	0	0	0	6	21
5-E (LCI)	25	0	18	0	5	3	0	0	0	0	0	11	34
5-E (UCI)	16	0	12	0	4	4	0	0	0	0	0	9	28
5-E (ILO)	8	12	82	86	53	22	130	43	31	2	42	21	38
5-E (HI)	9	9	42	35	20	10	53	14	16	2	12	8	26
5-E (LC)	13	11	68	51	27	12	80	18	23	2	24	10	17
5-E (UC)	18	14	95	76	44	21	117	30	36	5	38	18	17
5-E (LCI)	10	16	52	41	12	110	58	26	175	39	50	5	255
5-E (UCI)	12	20	123	92	36	17	95	24	30	4	32	11	144
5-E (ILO)	12	20	123	92	37	21	143	32	51	4	51	17	213
5-E (HI)	30917	22174	182926	47020	11920	4908	2408	4814	5072	2606	11535	982	40271
5-E (LC)	30917	21673	30239	6931	1434	871	648	1420	2072	11535	982	40271	13.1
5-E (UC)	43579	21680	39141	11023	1833	1209	882	1804	4310	237	237	125	4737
5-E (LCI)	6935	42745	67733	19156	3330	2098	1512	3084	5026	1087	270	163	6174
5-E (UCI)	98576	46503	87206	23645	4089	2611	1922	3888	10191	3074	564	201	7952
5-E (ILO)	29362	84793	13727	2894	1720	1154	2531	4589	1638	3893	218	12768	0.1
5-E (HI)	28170	70724	19412	3553	2141	1372	3196	8116	2522	4837	258	258	10517
5-E (LC)	3773	1773	333	48	13	13	0	101	21	56	21	56	896
5-E (UC)	774	125	95	21	11	10	0	31	10	20	9	896	0.1
5-E (LCI)	0	104	169	102	29	15	12	0	53	14	24	11	1516
5-E (UCI)	0	164	283	276	45	28	21	0	82	21	4	19	1793
5-E (ILO)	0	0	0	0	0	0	0	0	0	0	0	0	0
5-E (HI)	0	0	0	0	0	0	0	0	0	0	0	0	0
5-E (LC)	0	0	0	0	0	0	0	0	0	0	0	0	0
5-E (UC)	0	0	0	0	0	0	0	0	0	0	0	0	0
5-E (LCI)	0	0	0	0	0	0	0	0	0	0	0	0	0
5-E (UCI)	0	0	0	0	0	0	0	0	0	0	0	0	0
5-E (ILO)	348	530	662	277	608	618	37	25	98	21	42	19	1498
5-E (HI)	217	371	353	98	173	145	19	11	0	20	210	190	3053
5-E (LC)	452	245	504	144	228	186	28	14	0	18	57	57	519
5-E (UC)	491	366	707	210	374	312	44	25	0	18	120	120	852
5-E (LCI)	1023	526	1301	309	493	407	51	31	0	21	151	161	1077
5-E (UCI)	378	301	640	173	307	256	31	20	0	14	99	99	1864
5-E (ILO)	849	932	1058	254	403	329	47	25	0	17	130	133	1424
5-E (HI)	15043	12606	15219	69324	17426	5040	7130	793	643	336	1198	1249	20497
5-E (LC)	3427	3025	20094	13791	2621	1320	1433	207	269	114	135	140	24816
5-E (UC)	5106	3077	27415	16442	3083	1788	1701	279	260	114	135	140	24816
5-E (LCI)	6803	6469	44773	28310	5662	2851	3122	443	548	262	151	157	32495
5-E (UCI)	12001	8537	61081	35288	6552	3954	3902	599	871	344	108	109	49650
5-E (ILO)	7198	5377	36411	23408	4442	2337	2554	363	444	197	234	234	63823
5-E (HI)	9725	7008	49078	28452	5460	3160	3191	493	711	283	263	276	35001

TOTALS	204261	258907	659491	294552	122776	151379	264866	151532	333698	122309	20164	41770	2609605
S-E (ILO)	33062	44270	93699	26693	10310	30176	57762	21830	76799	15517	10453	7722	154054
S-E (HI)	44763	61098	130275	33411	17446	42061	78858	26716	104332	19840	12806	10239	217323
-95 UCI	76576	94916	208762	57192	22269	65181	125864	47153	169034	33687	22056	18455	308263
-95 UC105779	17396	790282	71667	26884	90851	171809	56626	229634	42279	27189	21819	434663	
-90 UCI	61348	17570	168284	44740	18155	53141	102297	38443	136855	27093	18126	13482	257574
-92 UCI	85117	142813	236058	58837	22022	74590	140507	46528	187379	34779	22451	17949	383384
EXECUTION TERMINATED	13	39	18	1	6	772	RC*0	92	70				

SHOW #FIN SCARDS=TMPLDGS SPUNCH=TMPLDQ
EXECUTION BEGINS 13 39 18

*90 LCI	0.	0.	0.	3543.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
*90 UCI	0.	0.	0.	3731.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
N IEGGSI	32.	N (LARVAE)	32.																	
*6711	0.	0.	0.	1033.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
*6710	0.	0.	0.	1033.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
*6711	0.	0.	0.	1033.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
*95 LCI	0.	0.	0.	4212.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
*95 UCI	0.	0.	0.	3762.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
*90 LCI	0.	0.	0.	3446.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
*90 UCI	0.	0.	0.	3446.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
N IEGGSI	12.	N (LARVAE)	12.																	
*4718	0.	0.	0.	70249.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
*4719	0.	0.	0.	16258.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
*4720	0.	0.	0.	19280.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
*93 LCI	0.	0.	0.	32532.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
*95 UCI	0.	0.	0.	38500.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
*90 LCI	0.	0.	0.	27893.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
*90 UCI	0.	0.	0.	32237.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
N IEGGSI	30.	N (LARVAE)	30.																	
*4725	0.	0.	0.	1905.	2027.	25439.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
*4726	0.	0.	0.	1310.	2971.	4815.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
*4727	0.	0.	0.	3731.	4176.	13480.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
*95 LCI	0.	0.	0.	2163.	4460.	13036.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
*95 UCI	0.	0.	0.	2253.	3439.	9159.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
*90 LCI	0.	0.	0.	2293.	3277.	10832.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
*90 UCI	0.	0.	0.	2293.	3277.	10832.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
N IEGGSI	35.	N (LARVAE)	35.																	
*972	0.	0.	0.	4836.	0.	293.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
*973	0.	0.	0.	1610.	0.	232.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
*974	0.	0.	0.	1698.	0.	577.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
*95 LCI	0.	0.	0.	3272.	0.	593.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
*95 UCI	0.	0.	0.	2631.	0.	460.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
*90 LCI	0.	0.	0.	2838.	0.	476.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
*90 UCI	0.	0.	0.	2838.	0.	476.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
N IEGGSI	47.	N (LARVAE)	47.																	
*979	0.	0.	0.	340.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
*980	0.	0.	0.	340.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
*981	0.	0.	0.	343.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
*95 LCI	0.	0.	0.	679.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
*95 UCI	0.	0.	0.	587.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
*90 LCI	0.	0.	0.	589.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
*90 UCI	0.	0.	0.	575.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
N IEGGSI	47.	N (LARVAE)	47.																	
*10145	0.	0.	0.	123111.	2087.	1745489.	0.	8961.	0.	20713.	0.	3111.	0.	6007.	0.	0.	0.	0.	0.	0.
*10146	0.	0.	0.	36146.	2987.	31631.	0.	8673.	0.	23662.	0.	3111.	0.	5177.	0.	0.	0.	0.	0.	0.
*10147	0.	0.	0.	44014.	2227.	39248.	0.	12242.	0.	28502.	0.	3272.	0.	9439.	0.	0.	0.	0.	0.	0.
*95 LCI	0.	0.	0.	71328.	5176.	63244.	0.	17355.	0.	48982.	0.	4594.	0.	10233.	0.	0.	0.	0.	0.	0.
*95 UCI	0.	0.	0.	69674.	4460.	79135.	0.	24536.	0.	39282.	0.	5101.	0.	8071.	0.	0.	0.	0.	0.	0.
*90 LCI	0.	0.	0.	60446.	3489.	52887.	0.	14501.	0.	47189.	0.	5510.	0.	8551.	0.	0.	0.	0.	0.	0.
*90 UCI	0.	0.	0.	74910.	3727.	61124.	0.	20505.	0.	47189.	0.	5510.	0.	8551.	0.	0.	0.	0.	0.	0.
N IEGGSI	47.	N (LARVAE)	47.																	
*L451																				

5/18	0.	0.	0.	1452.	30114.	91508.	0.	0.	3505.	66618.	140326.
5-E-LO	0.	0.	0.	1552.	23115.	33235.	0.	0.	3505.	66658.	150313.
5-E-MI	0.	0.	0.	1594.	97830.	75110.	0.	0.	4208.	112251.	49571.
-95 LCI	0.	0.	0.	3196.	310579.	25110.	0.	0.	7715.	147829.	79041.
-95 UCI	0.	0.	0.	2806.	310579.	102609.	0.	0.	8027.	357202.	109109.
-90 LCI	0.	0.	0.	2806.	89682.	59725.	0.	0.	6295.	139315.	64497.
-90 UCI	0.	0.	0.	2703.	226653.	81729.	0.	0.	1199.	284141.	89032.
N LEGGS	5.	N ILARVAE	12.								
5/19	0.	0.	0.	0.	0.	96772.	0.	3202.	0.	0.	27944.
5-E-LO	0.	0.	0.	0.	0.	43231.	0.	3202.	0.	0.	53423.
5-E-MI	0.	0.	0.	0.	0.	63212.	0.	3558.	0.	0.	75395.
-95 LCI	0.	0.	0.	0.	0.	99510.	0.	7383.	0.	0.	123194.
-95 UCI	0.	0.	0.	0.	0.	152752.	0.	7974.	0.	0.	173564.
-90 LCI	0.	0.	0.	0.	0.	80409.	0.	5955.	0.	0.	160391.
-90 UCI	0.	0.	0.	0.	0.	117575.	0.	6512.	0.	0.	160391.
N LEGGS	3.	N ILARVAE	9.								
6/1	0.	0.	0.	0.	0.	531534.	0.	95427.	0.	19116.	339081.
5-E-LO	0.	0.	0.	0.	0.	281649.	0.	4242.	0.	14098.	202761.
5-E-MI	0.	0.	0.	0.	0.	642276.	0.	5524.	0.	18508.	101685.
-95 LCI	0.	0.	0.	0.	0.	551991.	0.	9335.	0.	32358.	762937.
-95 UCI	0.	0.	0.	0.	0.	973449.	0.	131012.	0.	40735.	3239624.
-90 LCI	0.	0.	0.	0.	0.	551979.	0.	76202.	0.	26399.	565171.
-90 UCI	0.	0.	0.	0.	0.	795328.	0.	106903.	0.	33239.	2392653.
N LEGGS	4.	N ILARVAE	12.								
6/2	0.	0.	0.	0.	0.	116927.	0.	30039.	0.	90932.	0.
5-E-LO	0.	0.	0.	0.	0.	50436.	0.	20631.	0.	51117.	0.
5-E-MI	0.	0.	0.	0.	0.	70229.	0.	26207.	0.	78708.	0.
-95 LCI	0.	0.	0.	0.	0.	111014.	0.	55111.	0.	149008.	0.
-95 UCI	0.	0.	0.	0.	0.	153225.	0.	37051.	0.	91805.	0.
-90 LCI	0.	0.	0.	0.	0.	60595.	0.	47759.	0.	137707.	0.
-90 UCI	0.	0.	0.	0.	0.	176121.	0.	47759.	0.	137707.	0.
N LEGGS	4.	N ILARVAE	12.								
6/13	0.	0.	0.	0.	0.	262433.	0.	9870.	0.	150267.	0.
5-E-LO	0.	0.	0.	0.	0.	117263.	0.	6992.	0.	81012.	0.
5-E-MI	0.	0.	0.	0.	0.	186090.	0.	7828.	0.	130339.	0.
-95 LCI	0.	0.	0.	0.	0.	262390.	0.	15204.	0.	180494.	0.
-95 UCI	0.	0.	0.	0.	0.	416390.	0.	17442.	0.	200396.	0.
-90 LCI	0.	0.	0.	0.	0.	213398.	0.	12678.	0.	866192.	0.
-90 UCI	0.	0.	0.	0.	0.	338644.	0.	14185.	0.	281175.	0.
N LEGGS	3.	N ILARVAE	11.								
6/22	0.	0.	0.	0.	0.	104460.	0.	15954.	0.	30466.	0.
5-E-LO	0.	0.	0.	0.	0.	52053.	0.	9450.	0.	19006.	0.
5-E-MI	0.	0.	0.	0.	0.	78033.	0.	10765.	0.	24561.	0.
-95 LCI	0.	0.	0.	0.	0.	116770.	0.	20799.	0.	41964.	0.
-95 UCI	0.	0.	0.	0.	0.	171751.	0.	23695.	0.	52957.	0.
-90 LCI	0.	0.	0.	0.	0.	15332.	0.	16972.	0.	34253.	0.
-90 UCI	0.	0.	0.	0.	0.	17363.	0.	19335.	0.	43213.	0.
N LEGGS	4.	N ILARVAE	12.								
6/29	0.	0.	0.	0.	0.	8490.	0.	485766.	0.	120706.	485766.
5-E-LO	0.	0.	0.	0.	0.	3352.	0.	485766.	0.	63709.	485766.
5-E-MI	0.	0.	0.	0.	0.	9110.	0.	4011099.	0.	66400.	4011099.
-95 LCI	0.	0.	0.	0.	0.	20440.	0.	0.	0.	2090253.	146913.
-95 UCI	0.	0.	0.	0.	0.	52642.	0.	0.	0.	17259756.	224436.

90 LCF	0.	0.	0.	9967.	0.	16164.	0.	1418437.	118499.	1418437.	618657.
90 UCI	0.	0.	0.	10765.	0.	16262.	0.	0.11712405.	178615.	11712405.	731613.
N (EGGS) = 3. N (LARVAE) = 9.											
77.6	0.	0.	0.	0.	0.	14739.	0.	0.	28234.	0.	310239.
5.E. LO	0.	0.	0.	0.	0.	13250.	0.	0.	15113.	0.	86220.
5.E. HI	0.	0.	0.	0.	0.	11730.	0.	0.	17966.	0.	127663.
95 LCI	0.	0.	0.	0.	0.	22817.	0.	0.	33671.	0.	196518.
95 UCI	0.	0.	0.	0.	0.	26111.	0.	0.	40078.	0.	245032.
90 LCI	0.	0.	0.	0.	0.	18573.	0.	0.	27385.	0.	159623.
90 UCI	0.	0.	0.	0.	0.	21270.	0.	0.	32335.	0.	231051.
N (EGGS) = 3. N (LARVAE) = 11.											
7/13	0.	0.	0.	0.	0.	10644.	0.	0.	13731.	0.	151176.
5.E. LO	0.	0.	0.	0.	0.	7410.	0.	0.	9053.	0.	37568.
5.E. HI	0.	0.	0.	0.	0.	8270.	0.	0.	10233.	0.	46268.
95 LCI	0.	0.	0.	0.	0.	16327.	0.	0.	19008.	0.	82679.
95 UCI	0.	0.	0.	0.	0.	18111.	0.	0.	22523.	0.	101834.
90 LCI	0.	0.	0.	0.	0.	13323.	0.	0.	16243.	0.	67468.
90 UCI	0.	0.	0.	0.	0.	14719.	0.	0.	18379.	0.	83077.
N (EGGS) = 4. N (LARVAE) = 12.											
7/20	0.	0.	0.	0.	0.	3621.	0.	0.	23173.	0.	141962.
5.E. LO	0.	0.	0.	0.	0.	3691.	0.	0.	13708.	0.	31958.
5.E. HI	0.	0.	0.	0.	0.	3111.	0.	0.	3755.	0.	10091.
95 LCI	0.	0.	0.	0.	0.	8124.	0.	0.	12472.	0.	63282.
95 UCI	0.	0.	0.	0.	0.	6028.	0.	0.	23982.	0.	57193.
90 LCI	0.	0.	0.	0.	0.	7024.	0.	0.	28298.	0.	40368.
90 UCI	0.	0.	0.	0.	0.	7024.	0.	0.	28298.	0.	40368.
N (EGGS) = 4. N (LARVAE) = 12.											
7/27	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	63513.
5.E. LO	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	23573.
5.E. HI	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	23678.
95 LCI	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	45074.
95 UCI	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	52115.
90 LCI	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	36793.
90 UCI	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	42526.
N (EGGS) = 4. N (LARVAE) = 12.											
8/3	0.	0.	0.	0.	0.	3369.	0.	0.	4558.	0.	44321.
5.E. LO	0.	0.	0.	0.	0.	1309.	0.	0.	4558.	0.	16034.
5.E. HI	0.	0.	0.	0.	0.	823.	0.	0.	4681.	0.	19090.
95 LCI	0.	0.	0.	0.	0.	1666.	0.	0.	10302.	0.	33404.
95 UCI	0.	0.	0.	0.	0.	1860.	0.	0.	11042.	0.	43191.
90 LCI	0.	0.	0.	0.	0.	13507.	0.	0.	8348.	0.	31040.
90 UCI	0.	0.	0.	0.	0.	15075.	0.	0.	8947.	0.	34992.
N (EGGS) = 4. N (LARVAE) = 10.											
8/10	0.	0.	0.	0.	0.	3629.	0.	0.	3629.	0.	20991.
5.E. LO	0.	0.	0.	0.	0.	3629.	0.	0.	3629.	0.	11745.
5.E. HI	0.	0.	0.	0.	0.	3629.	0.	0.	3629.	0.	13681.
95 LCI	0.	0.	0.	0.	0.	8095.	0.	0.	8085.	0.	26213.
95 UCI	0.	0.	0.	0.	0.	8611.	0.	0.	8611.	0.	29144.
90 LCI	0.	0.	0.	0.	0.	6574.	0.	0.	6574.	0.	21319.
90 UCI	0.	0.	0.	0.	0.	7001.	0.	0.	7003.	0.	23703.
N (EGGS) = 3. N (LARVAE) = 11.											
8/17	0.	0.	0.	0.	0.	3774.	0.	0.	3774.	0.	7548.
5.E. LO	0.	0.	0.	0.	0.	3774.	0.	0.	3774.	0.	5337.

MEMS	0.	0.	0.	30590.	38114.	1339039.	0.	156691.	600826.	514363.	1010159.	776052.
5-E L0	0.	0.	0.	12403.	39114.	203333.	0.	48766.	484451.	120051.	544332.	736559.
*95 LCI	0.	0.	0.	25372.	16266.	586753.	0.	97580.	923389.	250222.	1089209.	1873054.
*95 UCI	0.	0.	0.	27596.	195298.	997254.	0.	133381.	6024467.	368515.	8291409.	2266562.
*90 LCI	0.	0.	0.	20872.	63726.	499452.	0.	81526.	813347.	200725.	910124.	1231524.
*90 UCI	0.	0.	0.	23098.	163187.	832780.	0.	111461.	6708775.	307925.	6621467.	1893899.
EXECUTION TERMINATED 02 07 42 189.828 AC=D 42.43												

Table E-3. Estimates of entrainment of macrozoobenthos at the Monroe Power Plant for May 1975-April 1976 based on \log_{10} (x + 1) transformation of counts from Detroit Edison's daily entrainment data sheets.

	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MARCH	APRIL	TOTALS	PC-UF
	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
Trisulcoida														
S.E. LD	1876	0	8877	13056	36471	56431	2040	4995	4555	2663	1023	0	27432	9.2
S.E. MI	2113	0	6278	976	13162	4887	4887	4995	1455	1092	1023	0	17288	
S.E. UCI	3465	0	7310	15733	1515	6157	8295	1555	3555	7095	1095	0	24035	
S.W. LD	4995	0	13310	20805	21586	10312	11519	3250	4474	4474	2779	0	34526	
S.W. MI	3251	0	16369	31835	30970	12932	14513	3226	4740	4740	2821	0	50935	
S.W. UCI	4906	0	10762	17115	17476	8593	9291	2668	3585	3585	1873	0	40117	
Hemiteuthis														
S.E. LD	4274	0	13811	26198	24707	10715	11709	2890	0	0	0	0	5235	<0.1
S.E. MI	4274	0	0	0	0	0	0	0	0	0	0	0	0	0
S.E. UCI	4274	0	0	0	0	0	0	0	0	0	0	0	0	0
S.W. LD	4274	0	0	0	0	0	0	0	0	0	0	0	0	0
S.W. MI	4274	0	0	0	0	0	0	0	0	0	0	0	0	0
S.W. UCI	4274	0	0	0	0	0	0	0	0	0	0	0	0	0
Myxozoa														
S.E. LD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S.E. MI	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S.E. UCI	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S.W. LD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S.W. MI	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S.W. UCI	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oligochaeta														
S.E. LD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S.E. MI	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S.E. UCI	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S.W. LD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S.W. MI	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S.W. UCI	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nitrocladus														
S.E. LD	17800	35203	6020	13125	1925	7596	0	1182	2181	0	2365	778	16001	<0.1
S.E. MI	18666	0	6020	13125	1925	7596	0	1182	2181	0	2365	778	6342	
S.E. UCI	3222	0	5514	22733	2205	3509	0	1874	1647	0	1808	829	7853	
S.W. LD	17800	35203	6020	13125	1925	7596	0	1182	2181	0	2365	778	16001	<0.1
S.W. MI	18666	0	6020	13125	1925	7596	0	1182	2181	0	2365	778	6342	
S.W. UCI	3222	0	5514	22733	2205	3509	0	1874	1647	0	1808	829	7853	
Hydra														
S.E. LD	18666	0	12763	24970	4081	1721	0	3018	1891	4284	8294	0	51180	
S.E. MI	18666	0	12763	24970	4081	1721	0	3018	1891	4284	8294	0	51180	
S.E. UCI	18666	0	12763	24970	4081	1721	0	3018	1891	4284	8294	0	51180	
S.W. LD	18666	0	12763	24970	4081	1721	0	3018	1891	4284	8294	0	51180	
S.W. MI	18666	0	12763	24970	4081	1721	0	3018	1891	4284	8294	0	51180	
S.W. UCI	18666	0	12763	24970	4081	1721	0	3018	1891	4284	8294	0	51180	
Amoebae														
S.E. LD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S.E. MI	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S.E. UCI	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S.W. LD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S.W. MI	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S.W. UCI	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Argulus														
S.E. LD	0	0	4750	0	4467	3788	0	4995	1830	0	0	0	2330	0.1
S.E. MI	0	0	4750	0	4467	3788	0	4995	1830	0	0	0	2330	0.1
S.E. UCI	0	0	4750	0	4467	3788	0	4995	1830	0	0	0	2330	0.1
S.W. LD	0	0	4750	0	4467	3788	0	4995	1830	0	0	0	2330	0.1
S.W. MI	0	0	4750	0	4467	3788	0	4995	1830	0	0	0	2330	0.1
S.W. UCI	0	0	4750	0	4467	3788	0	4995	1830	0	0	0	2330	0.1
Hydra														
S.E. LD	0	0	11379	0	11993	17241	0	14513	3110	0	0	0	25861	
S.E. MI	0	0	11379	0	11993	17241	0	14513	3110	0	0	0	25861	
S.E. UCI	0	0	11379	0	11993	17241	0	14513	3110	0	0	0	25861	

90 UCI	0.	7450	0.	7811	10090	0.	9791	2291	0.	0.	0.	16573
90 UCI	0.	936	0.	9666	14199	0.	11796	2529	0.	0.	0.	21697
Hemiptera												
S.E. LO	0.	0.	0.	12283	4223	4526	2011	1182	0.	0.	1908	529
S.E. HI	0.	0.	0.	6745	4274	4550	7071	1182	0.	0.	1538	529
95 UCI	0.	0.	0.	12502	5733	5733	2613	1267	0.	0.	3136	1165
95 UCI	0.	0.	0.	16983	9107	9846	4390	2786	0.	0.	3350	1216
95 UCI	0.	0.	0.	26505	11878	12133	3506	2521	0.	0.	2721	937
90 UCI	0.	0.	0.	17819	9372	10032	4694	2157	0.	0.	2721	937
90 UCI	0.	0.	0.	21181	0.	0.	1925	0.	0.	0.	0.	1925
S.E. LO	0.	0.	0.	0.	0.	0.	1925	0.	0.	0.	0.	1925
S.E. HI	0.	0.	0.	0.	0.	0.	2256	0.	0.	0.	0.	2256
95 UCI	0.	0.	0.	0.	0.	0.	4031	0.	0.	0.	0.	4031
95 UCI	0.	0.	0.	0.	0.	0.	4853	0.	0.	0.	0.	4853
90 UCI	0.	0.	0.	0.	0.	0.	3361	0.	0.	0.	0.	3361
90 UCI	0.	0.	0.	0.	0.	0.	3361	0.	0.	0.	0.	3361
Collembola												
S.E. LO	0.	0.	0.	22223	22223	213526	268263	33923	57201	31219	64695	33050
S.E. HI	0.	0.	0.	48578	64437	17890	18901	18032	14887	6056	1759	7500
95 UCI	0.	0.	0.	104552	90207	182350	356335	27022	26376	21272	6000	23459
95 UCI	0.	0.	0.	17974	116352	103703	176606	37926	40973	30908	36232	13009
95 UCI	0.	0.	0.	32933	222385	150337	372181	342176	37426	35076	37232	37232
90 UCI	0.	0.	0.	47337	96128	65189	11579	31181	32823	40122	12500	44554
90 UCI	0.	0.	0.	31128	183102	158273	321112	132802	17252	40122	12500	44554
Psocoptera												
S.E. LO	0.	0.	0.	621	0.	0.	0.	4921	1152	1152	0.	16154
S.E. HI	0.	0.	0.	14082	0.	0.	0.	7002	1267	1267	0.	16292
95 UCI	0.	0.	0.	10218	0.	0.	0.	10477	2226	2226	0.	25525
95 UCI	0.	0.	0.	29713	0.	0.	0.	15774	2921	2794	0.	31667
90 UCI	0.	0.	0.	15435	0.	0.	0.	8615	2199	2113	0.	1207
90 UCI	0.	0.	0.	24502	0.	0.	0.	12193	2156	2264	0.	2651
Dicopoda												
S.E. LO	0.	0.	0.	12211	0.	0.	0.	0.	0.	0.	0.	12211
S.E. HI	0.	0.	0.	7451	0.	0.	0.	0.	0.	0.	0.	7451
95 UCI	0.	0.	0.	10262	0.	0.	0.	0.	0.	0.	0.	10262
95 UCI	0.	0.	0.	15079	0.	0.	0.	0.	0.	0.	0.	15079
95 UCI	0.	0.	0.	11029	0.	0.	0.	0.	0.	0.	0.	11029
90 UCI	0.	0.	0.	18002	0.	0.	0.	0.	0.	0.	0.	18002
Acarina												
S.E. LO	0.	0.	0.	23185	53329	7712	7477	5668	0.	0.	0.	94318
S.E. HI	0.	0.	0.	17405	18939	7712	7627	4013	0.	0.	0.	22072
95 UCI	0.	0.	0.	36406	29163	11127	10603	3061	0.	0.	0.	45248
95 UCI	0.	0.	0.	36682	37961	16347	15826	8515	0.	0.	0.	56278
95 UCI	0.	0.	0.	64791	61776	23579	22301	10728	0.	0.	0.	90541
90 UCI	0.	0.	0.	30152	27252	13665	13013	2013	0.	0.	0.	40858
90 UCI	0.	0.	0.	53798	51176	19419	18411	8838	0.	0.	0.	75654
S.E. LO	0.	0.	0.	302	202	2230	4522	0.	0.	0.	0.	302
S.E. HI	0.	0.	0.	11566	4572	0.	0.	0.	0.	0.	0.	11566
95 UCI	0.	0.	0.	1670	3400	2130	0.	0.	0.	0.	0.	1670
95 UCI	0.	0.	0.	865	3302	2109	0.	0.	0.	0.	0.	865
90 UCI	0.	0.	0.	5783	25949	7913	0.	0.	0.	0.	0.	5783
90 UCI	0.	0.	0.	223	22821	4220	0.	0.	0.	0.	0.	223
Chromopoda												
S.E. LO	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2244
S.E. HI	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1523
95 UCI	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1701
95 UCI	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3392
90 UCI	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4074
90 UCI	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4074
Chlorococcidia												
90 UCI	0.	0.	0.	184501	372053	7012056	336032	3906450	881242	183516	351202	138151
S.E. LO	729208	381009	1241815	394035	345174	92599	25251	35632	21046	164262	110998	64611

