

**Appendices to
Biological and Water Quality Study of the
Black River Basin, 1997**

Lorain and Medina Counties

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Appendices to the 1997 Biological and Water Quality Study of the Black River Basin

Appendix Table 1. Analytical results for water samples collected during the 1997 intensive survey of the Black River and tributaries.

Stream/ River Mile	Date	Temperature (°C)	pH (S.U.)	Dissolved Oxygen (mg/l)	Conductivity @ 25°C (µmhos/cm)	COD (mg/l)	Chloride (mg/l)
Black River							
15.00	06/30/97	25.2	8.44	8.03	568	19	40
15.00	07/16/97	24.1	8.39	6.26	568	27	51
15.00	07/24/97	23.5	-	7.53	673	21	63
15.00	08/26/97	19.0	8.05	8.61	496	27	36
15.00	09/04/97	18.6	8.24	8.29	567	22	45
15.00	09/04/97 <i>duplicate</i>	18.6	8.24	8.28	567	30	46
11.90	06/30/97	25.0	8.55	9.27	594	20	43
11.90	07/16/97	24.4	8.51	8.54	541	37	56
11.90	07/24/97	24.1	8.22	8.57	680	18	66
11.90	08/26/97	19.2	8.02	8.22	491	24	
11.90	09/04/97	17.1	8.44	11.00	594	22	51
9.80	06/30/97	22.0	8.38	8.88	946	17	86
9.80	07/16/97	24.0	8.11	7.38	809	18	96
9.80	07/24/97	23.3	7.95	8.07	1,137	24	125
9.80	08/26/97	19.1	7.91	8.13	578	27	47
9.80	09/04/97	17.9	8.12	10.13	955	19	98
6.20	06/30/97	24.8	8.50	8.27	877	28	73
6.20	07/16/97	27.1	8.87	11.20	639	26	112
6.20	07/24/97	24.0	8.28	9.11	1,304	24	132
6.20	08/26/97	19.0	7.95	8.37	571	21	-
6.20	09/04/97	19.1	8.28	11.52	805	30	82
5.30	06/30/97	-	-	-	-	27	67
5.30	07/16/97	26.2	8.60	13.23	980	24	100
5.30	07/24/97	23.5	8.11	8.49	1,440	30	138
5.30	08/26/97	18.5	7.87	8.25	592	24	-
5.30	09/04/97	-	-	-	-	20	97
4.50	06/30/97	24.9	8.32	10.60	-	26	67
4.50	07/16/97	27.6	8.51	8.87	825	24	96
4.50	07/24/97	25.2	7.63	6.00	1,037	21	126
4.50	08/26/97	18.8	7.62	8.80	586	27	-
4.50	09/04/97	20.5	7.06	2.04	863	24	98
3.00	06/30/97	25.7	7.85	6.72	615	21	58
3.00	07/16/97	26.8	7.78	6.33	560	-	59
3.00	07/24/97	26.2	7.50	5.76	510	21	43
3.00	08/26/97	22.2	7.50	8.14	535	30	-
3.00	09/04/97	23.7	7.16	6.53	777	14	63

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Appendix Table 1. (cont.)

Stream/ River Mile	Date	Temperature (°C)	pH (S.U.)	Dissolved Oxygen (mg/l)	Conductivity @ 25°C (µmhos/cm)	COD (mg/l)	Chloride (mg/l)
Black River (cont.)							
2.24	06/30/97	23.8	7.76	5.53	218	28	35
2.24	07/16/97	24.8	7.48	5.10	416	18	37
2.24	07/24/97	25.5	7.39	5.12	406	12	32
2.24	08/26/97	22.7	7.35	7.06	544	33	
2.24	09/04/97	22.2	6.87	3.57	369	17	39
0.42	06/30/97	23.4	7.19	6.67	438	10	35
0.42	07/16/97	23.2	7.75	6.98	350	15	27
0.42	07/24/97	24.2	7.44	5.74	370	12	24
0.42	08/26/97	21.6	7.22	6.70	473	18	-
0.42	09/04/97	21.8	6.89	5.50	396	14	29
0.10	06/30/97	21.9	8.06	6.85	369	14	31
0.10	07/16/97	23.5	7.76	6.80	289	18	16
0.10	07/24/97	23.2	7.52	6.12	315	18	23
0.10	08/26/97	21.7	7.61	8.68	330	15	20
0.10	09/04/97	21.5	6.92	6.30	363	14	30
East Branch Black River							
41.50	06/30/97	23.0	8.29	6.9	983	11	66
41.50	07/16/97	22.0	-	6.3	1,058	<10	93
41.50	07/24/97	16.0	7.64	8.3	1,081	12	84
41.50	08/26/97	18.0	8.11	8.1	751	21	52
41.50	09/04/97	15.5	8.07	8.1	924	20	93
32.50	06/30/97	23.5	8.13	5.9	854	20	52
32.50	07/16/97	23.5	8.67	5.6	919	12	66
32.50	07/24/97	22.2	7.78	6.1	829	18	84
32.50	08/26/97	18.0	8.07	7.9	727	21	45
32.50	09/04/97	15.0	7.97	7.5	883	20.2	60
18.90	06/30/97	23.5	7.77	4.5	546	26	35
18.90	07/16/97	23.5	7.85	4.3	838	18	51
18.90	07/24/97	22.0	7.74	5.4	751	21	57
18.90	08/26/97	-	8.04	7.7	1,005	34	27
18.90	09/04/97	15.0	7.79	6.9	779	17	60
11.30	06/30/97	23.5	7.83	6.5	463	26	26
11.30	07/16/97	24.0	8.93	7.0	749	15	-
11.30	07/24/97	22.9	7.98	7.3	722	30	59
11.30	08/26/97	18.0	8.15	8.4	655	30	40
11.30	09/04/97	15.5	7.34	7.5	660	23	45

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Appendix Table 1. (cont.)

Stream/ River Mile	Date	Temperature (°C)	pH (S.U.)	Dissolved Oxygen (mg/l)	Conductivity @ 25°C (µmhos/cm)	COD (mg/l)	Chloride (mg/l)
East Branch Black River (cont.)							
10.10	06/30/97	23.0	7.86	5.1	492	26	26
10.10	07/16/97	24.0	7.93	5.3	749	18	54
10.10	07/24/97	23.3	7.98	6.7	691	21	64
10.10	08/26/97	18.0	8.15	8.7	655	25	42
10.10	09/04/97	17.0	8.2	8.7	626	20	46
6.00	06/30/97	24.0	7.75	6.3	461	26	26
6.00	07/16/97	24.0	8.91	6.8	696	15	49
6.00	07/24/97	22.5	8.13	8.8	571	24	60
6.00	08/26/97	17.0	8.18	8.3	601	33	49
6.00	09/04/97	15.5	7.91	7.7	629	20	44
5.20	06/30/97	24.0	7.93	5.6	482	26	30
5.20	07/16/97	23.0	8.78	5.9	710	14	53
5.20	07/24/97	22.0	8.02	7.8	687	18	64
5.20	08/26/97	17.5	8.16	8.6	435	45	29
5.20	09/04/97	14.0	7.90	8.3	638	26	49
3.00	06/30/97	25.0	7.97	7.2	425	23	28
3.00	07/16/97	23.4	8.48	6.8	624	24	56
3.00	07/24/97	25.4	8.44	11.8	679	24	68
3.00	08/26/97	19.5	7.92	8.3	508	30	38
3.00	09/04/97	16.9	8.09	9.1	579	22	45
0.30	06/30/97	8.3	-	7.3	759	26	38
0.30	07/16/97	25.2	8.89	8.1	564	46	55
0.30	07/24/97	25.5	8.01	7.5	693	21	59
0.30	08/26/97	18.8	7.93	8.1	482	33	35
0.30	09/04/97	19.5	8.56	10.1	579	33	49
West Branch Black River							
0.10	06/30/97	24.0	8.20	7.6	613	20	44
0.10	07/16/97	23.7	8.04	5.5	610	15	49
0.10	07/24/97	24.4	8.12	8.7	639	12	58
0.10	08/26/97	19.1	8.00	8.7	529	24	39
0.10	09/04/97	16.8	8.15	8.5	588	22	46
East Fork E. Branch Black River							
2.70	06/30/97	22.0	8.64	9.4	923	<10	66
2.70	07/16/97	23.5	-	8.9	1,070	<10	82
2.70	07/24/97	22.8	8.30	10.53	962	<10	43
2.70	08/26/97	18.5	8.59	9.1	839	<10	68
2.70	09/04/97	14.0	8.48	11.3	971	<10	83

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Appendix Table 1. (cont.)

Stream/ River Mile	Date	Temperature (°C)	pH (S.U.)	Dissolved Oxygen (mg/l)	Conductivity @ 25°C (µmhos/cm)	COD (mg/l)	Chloride (mg/l)
East Fork E. Branch Black River (cont.)							
0.10	06/30/97	22.0	8.11	7.0	1,242	11	161
0.10	07/16/97	23.5	-	8.6	1,394	<10	239
0.10	07/24/97	22.0	7.80	9.34	-	15	259
0.10	08/26/97	18.0	8.16	8.8	848	15	88
0.10	09/04/97	15.0	7.93	8.3	1,311	17	219
Willow Creek							
6.00	06/30/97	22.0	6.98	0.2	451	40	35
6.00	07/16/97	22.0	7.95	0.4	488	55	48
6.00	07/24/97	20.7	7.42	3.1	557	124	46
6.00	08/26/97	19.0	8.00	6.3	462	51	34
6.00	09/04/97	13.0	7.35	2.6	641	43	64
5.00	06/30/97	22.0	7.29	1.9	642	28	49
5.00	07/16/97	22.0	8.29	2.9	668	20	58
5.00	07/24/97	20.8	7.44	3.8	625	30	65
5.00	08/26/97	17.5	8.01	7.5	435	45	27
5.00	09/04/97	14.0	7.52	7.6	671	20	24
2.90	06/30/97	22.0	7.50	4.0	636	31	58
2.90	07/16/97	22.0	8.50	6.0	702	15	71
2.90	07/24/97	20.7	7.70	6.44	757	24	99
2.90	08/26/97	17.5	8.09	8.1	441	45	29
2.90	09/04/97	13.5	7.80	8.1	687	24	65
French Creek							
6.10	06/30/97	22.5	7.88	6.81	822	23	110
6.10	07/16/97	22.5	7.91	6.71	545	18	68
6.10	07/24/97	21.3	8.04	8.03	764	18	92
6.10	08/26/97	18.3	7.74	8.30	656	25	67
6.10	09/04/97	17.6	8.22	11.43	688	20	89
3.20	06/30/97	22.8	7.64	6.70	893	23	95
3.20	07/16/97	23.5	8.15	6.36	663	46	91
3.20	07/24/97	22.1	7.96	6.10	636	18	72
3.20	08/26/97	18.4	7.89	8.12	658	16	66
3.20	09/04/97	17.8	8.53	15.27	663	20	80
0.40	06/30/97	21.5	7.86	7.39	872	23	121
0.40	07/16/97	21.7	7.99	6.75	882	21	133
0.40	07/24/97	21.1	7.87	7.70	967	15	145
0.40	08/26/97	18.4	7.89	8.06	676	18	63
0.40	08/26/97	18.4	7.89	8.06	676	18	61
0.40	09/04/97	16.9	8.12	10.89	779	20	101

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Appendix Table 1. (cont.)

Stream/ River Mile	Date	As ($\mu\text{g/l}$)	Cd ($\mu\text{g/l}$)	Ca (mg/l)	Cr ($\mu\text{g/l}$)	Cu ($\mu\text{g/l}$)	Fe ($\mu\text{g/l}$)	Pb ($\mu\text{g/l}$)	Mg (mg/l)	Hg ($\mu\text{g/l}$)	Ni ($\mu\text{g/l}$)	Zn ($\mu\text{g/l}$)
Black River												
15.00	06/30/97	4	0.2	62	<30	4	444	<2	18	<0.2	<40	<10
15.00	07/16/97	10	0.3	59	<30	4	-	<2	19	<0.2	-	<10
15.00	07/24/97	10	0.3	72	<30	4	372	<2	21	<0.2	<40	<10
15.00	08/26/97	3	0.2	55	<30	6	-	3	14	<0.2	<40	20
15.00	09/04/97	3	0.2	64	<30	6	483	2	18	<0.2	<40	13
15.00	09/04/97 <i>duplicate</i>	4	0.3	66	<30	7	558	2	18	<0.2	<40	14
11.90	06/30/97	4	0.3	65	<30	4	279	<2	20	<0.2	<40	<10
11.90	07/16/97	6	0.4	51	<30	4	-	<2	18	<0.2	-	<10
11.90	07/24/97	6	0.5	72	<30	4	391	<2	22	<0.2	<40	<10
11.90	08/26/97	3	0.3	57	<30	8	-	3	14	<0.2	<40	18
11.90	09/04/97	3	<0.2	68	<30	5	224	<2	19	<0.2	<40	<10
9.80	06/30/97	-	-	66	<30	-	373	-	24	-	<40	14
9.80	07/16/97	4	0.6	50	<30	4	-	<2	21	0.2	-	12
9.80	07/24/97	3	0.8	67	<30	4	369	<2	26	<0.2	<40	19
9.80	08/26/97	2	0.4	56	<30	6	-	3	15	<0.2	<40	18
9.80	09/04/97	<2	0.3	67	<30	5	-	<2	23	<0.2	<40	17
6.20	06/30/97	3	0.6	60	<30	3	356	<2	21	<0.2	<40	14
6.20	07/16/97	3	1.0	61	<30	9	-	3	22	<0.2	-	19
6.20	07/24/97	3	1.3	65	<30	6	524	<2	26	<0.2	<40	24
6.20	08/26/97	2	0.4	55	<30	5	-	2	15	<0.2	<40	18
6.20	09/04/97	<2	0.6	64	<30	5	-	<2	20	<0.2	<40	17
5.30	06/30/97	2	0.7	56	<30	6	564	2	22	<0.2	-	12
5.30	07/16/97	3	0.9	62	<30	6	-	<2	21	<0.2	-	<10
5.30	07/24/97	3	1.6	68	<30	6	586	<2	28	<0.2	<40	21
5.30	08/26/97	3	0.4	57	<30	6	-	2	15	<0.2	<40	17
5.30	09/04/97	2	0.7	67	<30	<2	580	<2	23	<0.2	<40	18
4.50	06/30/97	3	0.4	56	<30	4	538	2	9	<0.2	<40	10
4.50	07/16/97	3	0.3	61	<30	4	-	<2	19	<0.2	-	6
4.50	07/24/97	3	0.9	63	<30	5	-	<2	22	<0.2	<40	16
4.50	08/26/97	2	0.3	54	<30	5	-	<2	14	<0.2	<40	24
4.50	09/04/97	2	0.5	72	<30	4	866	<2	22	<0.2	<40	14
3.00	06/30/97	<2	0.4	59	<30	3	1,170	<2	17	<0.2	<40	30
3.00	07/16/97	<2	0.4	50	<30	4	-	<2	15	<0.2	-	14
3.00	07/24/97	2	0.2	45	<30	3	-	2	12	<0.2	<40	18
3.00	08/26/97	2	0.4	50	<30	7	-	3	12	<0.2	<40	22
3.00	09/04/97	2	0.4	58	<30	4	1,260	2	16	<0.2	<40	15

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Appendix Table 1. (cont.)

Stream/ River Mile	Date	As (µg/l)	Cd (µg/l)	Ca (mg/l)	Cr (µg/l)	Cu (µg/l)	Fe (µg/l)	Pb (µg/l)	Mg (mg/l)	Hg (µg/l)	Ni (µg/l)	Zn (µg/l)
Black River (cont.)												
2.24	06/30/97	<2	<0.2	43	<30	3	848	<2	12	<0.2	<40	11
2.24	07/16/97	<2	<0.2	43	<30	2	-	<2	12	<0.2	-	<10
2.24	07/24/97	<2	<0.2	39	<30	2	-	<2	11	<0.2	<40	<10
2.24	08/26/97	2	0.2	49	<30	6	-	2	12	<0.2	<40	13
2.24	09/04/97	<2	<0.2	47	<30	4	1,080	<2	12	<0.2	<40	<10
0.42	06/30/97	<2	<0.2	42	<30	4	1,070	<2	12	<0.2	<40	14
0.42	07/16/97	<2	<0.2	37	<30	<2	-	<2	10	<0.2	-	<10
0.42	07/24/97	<2	<0.2	37	<30	4	-	<2	10	<0.2	<40	16
0.42	08/26/97	2	0.2	46	<30	6	-	<2	11	<0.2	<40	16
0.42	09/04/97	<2	<0.2	41	<30	<2	1,210	<2	11	<0.2	<40	12
0.10	06/30/97	<2	0.5	41	<30	4	390	<2	11	<0.2	<40	11
0.10	07/16/97	<2	<0.2	32	<30	2	-	<2	9	<0.2	-	<10
0.10	07/24/97	<2	0.3	35	<30	5	-	4	10	<0.2	<40	21
0.10	08/26/97	<2	<0.2	33	<30	<2	-	<2	9	<0.2	<40	<10
0.10	09/04/97	<2	<0.2	38	<30	2	1,120	<2	10	<0.2	<40	13
East Branch Black River												
41.50	06/30/97	-	<0.2	100	<30	2	648	<2	27	<0.2	<40	13
41.50	07/16/97	-	<0.2	107	<30	2	-	<2	29	<0.2	-	12
41.50	07/24/97	-	<0.2	113	<30	<2	-	<2	31	<0.2	<40	13
41.50	08/26/97	-	<0.2	82	<30	3	-	<2	22	<0.2	<40	23
41.50	09/04/97	-	<0.2	100	<30	2	-	<2	29	<0.2	-	17
32.50	06/30/97	-	<0.2	92	<30	2	1,650	<2	26	<0.2	<40	11
32.50	07/16/97	-	<0.2	104	<30	2	-	<2	29	<0.2	-	26
32.50	07/24/97	-	<0.2	91	<30	<2	-	<2	27	<0.2	<40	15
32.50	08/26/97	-	<0.2	76	<30	3	-	3	23	<0.2	<40	16
32.50	09/04/97	-	<0.2	94	<30	3	-	<2	27	<0.2	-	20
18.90	06/30/97	-	<0.2	63	<30	4	851	<2	20	<0.2	<40	10
18.90	07/16/97	-	<0.2	95	<30	<2	-	3	27	<0.2	-	17
18.90	07/24/97	-	<0.2	91	<30	<2	-	<2	27	<0.2	<40	26
18.90	08/26/97	-	0.2	57	<30	5	-	6	17	<0.2	<40	22
18.90	09/04/97	-	<0.2	78	<30	3	-	2	24	<0.2	-	20
11.30	06/30/97	-	<0.2	35	<30	4	2,320	3	11	<0.2	<40	26
11.30	07/16/97	-	<0.2	86	<30	2	-	<2	25	<0.2	-	16
11.30	07/24/97	-	<0.2	87	<30	2	-	2	27	<0.2	<40	17
11.30	08/26/97	-	0.2	69	<30	4	-	4	20	<0.2	<40	21
11.30	09/04/97	-	<0.2	72	<30	2	-	<2	23	<0.2	-	22

Appendices to the 1997 Biological and Water Quality Study of the Black River Basin

Appendix Table 1. (cont.)

Stream/ River Mile	Date	As (µg/l)	Cd (µg/l)	Ca (mg/l)	Cr (µg/l)	Cu (µg/l)	Fe (µg/l)	Pb (µg/l)	Mg (mg/l)	Hg (µg/l)	Ni (µg/l)	Zn (µg/l)
East Branch Black River (cont.)												
10.10	06/30/97	-	-	-	-	-	-	-	-	-	-	-
10.10	07/16/97	-	<0.2	78	<30	3	-	<2	22	<0.2	-	18
10.10	07/24/97	-	<0.2	74	<30	3	-	<2	22	<0.2	<40	18
10.10	08/26/97	-	0.2	67	<30	3	-	2	20	<0.2	<40	17
10.10	09/04/97	-	<0.2	67	<30	3	-	3	21	<0.2	-	25
6.00	06/30/97	-	<0.2	43	<30	3	1,080	2	13	<0.2	<40	<10
6.00	07/16/97	-	<0.2	81	<30	2	-	<2	24	<0.2	-	<10
6.00	07/24/97	-	<0.2	74	<30	2	-	<2	23	<0.2	-	<10
6.00	08/26/97	-	<0.2	58	<30	4	-	4	17	<0.2	<40	20
6.00	09/04/97	-	<0.2	68	<30	3	-	4	20	<0.2	<40	16
5.20	06/30/97	-	<0.2	47	<30	5	936	2	14	<0.2	<40	15
5.20	07/16/97	-	<0.2	78	<30	2	-	3	22	<0.2	-	11
5.20	07/24/97	-	<0.2	74	<30	2	-	<2	23	<0.2	<40	<10
5.20	08/26/97	-	0.3	44	<30	5	-	2	11	<0.2	<40	22
5.20	09/04/97	-	<0.2	66	<30	3	-	<2	19	<0.2	-	21
3.00	06/30/97	-	<0.2	42	<30	3	633	<2	13	<0.2	-	10
3.00	07/16/97	-	<0.2	76	<30	2	-	<2	22	<0.2	-	<10
3.00	07/24/97	-	0.4	72	<30	4	309	<2	23	<0.2	<40	10
3.00	08/26/97	-	<0.2	55	<30	4	-	2	15	<0.2	<40	15
3.00	09/04/97	-	<0.2	67	<30	2	369	<2	19	<0.2	<40	<10
0.30	06/30/97	-	0.4	57	<30	4	345	<2	17	<0.2	<40	<10
0.30	07/16/97	-	0.5	55	<30	4	-	<2	20	<0.2	-	10
0.30	07/24/97	-	<0.2	79	<30	2	398	<2	23	<0.2	<40	<10
0.30	08/26/97	-	<0.2	52	<30	5	-	2	14	<0.2	<40	17
0.30	09/04/97	-	0.6	66	<30	9	534	8	18	<0.2	<40	15
West Branch Black River												
0.10	06/30/97	2	<0.2	74	<30	2	345	<2	21	<0.2	<40	<10
0.10	07/16/97	<2	<0.2	70	<30	3	-	<2	20	<0.2	-	<10
0.10	07/24/97	2	<0.2	67	<30	2	398	<2	20	<0.2	<40	10
0.10	08/26/97	<2	<0.2	61	<30	4	-	2	16	<0.2	<40	19
0.10	09/04/97	<2	<0.2	69	<30	4	534	<2	19	<0.2	<40	<10
East Fork E. Branch Black River												
2.70	06/30/97	<2	<0.2	86	<30	<2	52	<2	31	<0.2	<40	13
2.70	07/16/97	<2	<0.2	105	<30	<2	-	<2	38	<0.2	-	<10
2.70	07/24/97	<2	<0.2	99	<30	<2	-	<2	38	<0.2	<40	<10
2.70	08/26/97	<2	0.8	65	<30	<2	-	<2	22	<0.2	<40	<10
2.70	09/04/97	<2	<0.2	90	<30	<2	-	<2	34	<0.2	-	<10

Appendices to the 1997 Biological and Water Quality Study of the Black River Basin

Appendix Table 1. (cont.)

Stream/ River Mile	Date	As (µg/l)	Cd (µg/l)	Ca (mg/l)	Cr (µg/l)	Cu (µg/l)	Fe (µg/l)	Pb (µg/l)	Mg (mg/l)	Hg (µg/l)	Ni (µg/l)	Zn (µg/l)
East Fork E. Branch Black River (cont.)												
0.10	06/30/97	3	<0.2	100	<30	3	421	<2	29	<0.2	<40	16
0.10	07/16/97	4	<0.2	108	<30	4	-	<2	29	<0.2	-	25
0.10	07/24/97	4	0.3	97	<30	6	-	<2	27	<0.2	-	22
0.10	08/26/97	2	<0.2	66	<30	3	-	<2	19	<0.2	-	12
0.10	09/04/97	4	<0.2	101	<30	4	-	<2	30	<0.2	-	19
Willow Creek												
6.00	06/30/97	7	<0.2	44	<30	3	1,810	<2	12	<0.2	<40	12
6.00	07/16/97	8	0.4	51	<30	3	-	<2	13	<0.2	-	17
6.00	07/24/97	5	<0.2	48	<30	6	-	2	14	<0.2	<40	33
6.00	08/26/97	4	0.3	47	<30	4	-	<2	11	<0.2	<40	25
6.00	09/04/97	4	<0.2	61	<30	2	-	2	15	<0.2	-	48
5.00	06/30/97	6	<0.2	61	<30	3	755	4	17	<0.2	<40	16
5.00	07/16/97	3	<0.2	63	<30	3	-	<2	16	<0.2	-	31
5.00	07/24/97	6	1	54	<30	3	-	2	16	<0.2	<40	42
5.00	08/26/97	3	0.2	41	<30	4	-	3	11	<0.2	<40	31
5.00	09/04/97	2	<0.2	64	<30	3	-	3	18	<0.2	-	43
2.90	06/30/97	6	<0.2	56	<30	4	572	<2	16	<0.2	<40	23
2.90	07/16/97	4	<0.2	67	<30	2	-	<2	18	<0.2	-	15
2.90	07/24/97	4	<0.2	65	<30	<2	-	<2	19	<0.2	<40	11
2.90	08/26/97	2	0.3	43	<30	4	-	3	12	<0.2	<40	30
2.90	09/04/97	2	<0.2	65	<30	3	-	<2	19	<0.2	-	22
French Creek												
6.10	06/30/97	3	<0.2	72	<30	3	481	<2	17	<0.2	<40	<10
6.10	07/16/97	<2	<0.2	51	<30	2	-	<2	11	<0.2	-	11
6.10	07/24/97	2	<0.2	71	<30	2	657	<2	18	<0.2	<40	10
6.10	08/26/97	2	<0.2	65	<30	4	-	<2	14	<0.2	<40	12
6.10	09/04/97	2	<0.2	65	<30	2	610	<2	15	<0.2	<40	<10
3.20	06/30/97	2	<2	76	<30	3	865	<2	17	<0.2	<40	15
3.20	07/16/97	<2	<0.2	60	<30	3	-	<2	14	<0.2	-	<10
3.20	07/24/97	2	<0.2	62	<30	2	493	<2	15	<0.2	<40	<10
3.20	08/26/97	2	<0.2	71	<30	5	-	<2	15	<0.2	<40	16
3.20	09/04/97	<2	<0.2	66	<30	3	427	<2	16	<0.2	<40	10
0.40	06/30/97	2	<0.2	77	<30	2	313	<2	18	<0.2	<40	13
0.40	07/16/97	2	<0.2	71	<30	2	-	<2	18	<0.2	-	14
0.40	07/24/97	<2	<0.2	70	<30	3	222	<2	19	<0.2	<40	15
0.40	08/26/97	<2	<0.2	70	<30	4	-	<2	15	<0.2	<40	12
0.40	08/26/97	2	0.2	69	<30	3	-	<2	15	<0.2	<40	15
0.40	09/04/97	<2	<0.2	70	<30	3	213	<2	17	<0.2	<40	11

Appendices to the 1997 Biological and Water Quality Study of the Black River Basin

Appendix Table 1. (cont.)

Stream/ River Mile	Date	Hardness (mg/l)	NO ₂ -NO ₃ - N (mg/l)	NH ₃ -N (mg/l)	Total Kjeldahl Nitrogen (mg/l)	Total Phosphorus (mg/l)	Total Dissolved Solids (mg/l)	Total Suspended Solids (mg/l)	Fecal Coliform Bacteria (col./100ml)
Black River									
15.00	06/30/97	229	0.54	<0.05	0.70	0.22	364	14	-
15.00	07/16/97	226	0.24	<0.05	1.10	0.24	374	18	170
15.00	07/24/97	266	0.43	0.12	0.60	0.20	410	12	130
15.00	08/26/97	195	3.62	0.13	1.00	0.24	362	42	2,200
15.00	09/04/97	234	2.45	0.06	1.00	0.14	386	16	1,400
15.00	09/04/97	239	2.43	0.05	1.00	0.14	392	16	-
11.90	06/30/97	245	<0.10	<0.05	0.80	0.12	370	16	-
11.90	07/16/97	201	<0.10	<0.05	1.20	0.05	352	20	240
11.90	07/24/97	270	0.31	<0.05	0.70	0.13	476	10	100
11.90	08/26/97	200	3.51	0.10	1.00	0.19	350	46	1,600
11.90	09/04/97	248	2.03	<0.05	0.90	0.05	404	8	460
9.80	06/30/97	264	5.52	<0.05	1.10	0.58	620	22	-
9.80	07/16/97	211	7.86	<0.05	1.50	0.19	522	18	180
9.80	07/24/97	274	10.50	0.05	1.10	0.13	750	12	120
9.80	08/26/97	202	4.69	0.14	1.00	0.11	390	32	1,800
9.80	09/04/97	262	9.62	<0.05	0.90	0.20	630	8	360
6.20	06/30/97	236	3.52	<0.05	1.30	0.27	524	22	-
6.20	07/16/97	243	10.40	<0.05	1.30	0.28	654	20	20
6.20	07/24/97	264	13.10	<0.05	1.10	0.14	862	32	130
6.20	08/26/97	199	4.18	0.10	1.00	0.26	394	32	1,300
6.20	09/04/97	242	6.33	<0.05	1.10	0.13	526	13	1,100
5.30	06/30/97	230	2.43	<0.05	1.20	0.24	465	38	-
5.30	07/16/97	241	9.58	<0.05	1.30	0.07	652	22	50
5.30	07/24/97	285	15.00	<0.05	1.10	0.15	964	28	50
5.30	08/26/97	204	4.50	0.12	0.80	0.21	402	42	970
5.30	09/04/97	262	9.24	<0.05	1.20	0.13	648	16	400
4.50	06/30/97	177	2.56	<0.05	0.90	0.41	458	27	-
4.50	07/16/97	231	5.89	0.06	1.80	0.11	556	12	5
4.50	07/24/97	248	8.83	0.16	1.20	0.12	662	13	10
4.50	08/26/97	192	4.74	0.09	1.10	0.24	408	22	800
4.50	09/04/97	270	9.16	<0.05	1.40	0.12	632	27	240
3.00	06/30/97	205	2.06	0.30	0.90	0.17	398	24	-
3.00	07/16/97	187	2.84	0.10	1.00	0.06	386	15	20
3.00	07/24/97	162	1.96	0.28	0.80	0.08	276	34	5
3.00	08/26/97	174	4.00	0.90	0.20	0.24	362	40	290
3.00	09/04/97	211	4.04	0.09	0.80	0.09	438	26	40

Appendices to the 1997 Biological and Water Quality Study of the Black River Basin

Appendix Table 1. (cont.)

Stream/ River Mile	Date	Hardness (mg/l)	NO ₂ -NO ₃ - N (mg/l)	NH ₃ -N (mg/l)	Total Kjeldahl Nitrogen (mg/l)	Total Phosphorus (mg/l)	Total Dissolved Solids (mg/l)	Total Suspended Solids (mg/l)	Fecal Coliform Bacteria (col./100ml)
Black River (cont.)									
2.24	06/30/97	157	1.43	0.43	0.80	0.36	270	15	-
2.24	07/16/97	157	1.76	0.17	0.60	0.12	288	12	10
2.24	07/24/97	143	1.31	0.28	0.60	0.06	226	18	10
2.24	08/26/97	172	3.97	0.21	0.90	0.14	361	18	280
2.24	09/04/97	167	2.85	<0.05	0.50	0.11	324	16	120
0.42	06/30/97	154	1.55	0.33	0.60	0.31	276	22	
0.42	07/16/97	134	1.18	0.13	0.50	<0.05	234	8	5
0.42	07/24/97	134	1.14	0.35	0.60	0.07	210	18	100
0.42	08/26/97	160	3.72	0.27	0.80	0.16	340	19	380
0.42	09/04/97	148	2.07	0.16	0.50	0.17	240	16	120
0.10	06/30/97	148	1.24	0.92	1.40	0.14	254	13	
0.10	07/16/97	117	0.59	0.09	<0.20	0.07	178	<5	10
0.10	07/24/97	129	0.13	0.40	0.80	0.18	186	78	200
0.10	08/26/97	119	1.33	0.13	0.40	0.25	192	6	280
0.10	09/04/97	136	1.85	0.27	0.60	<0.05	230	14	220
East Branch Black River									
41.50	06/30/97	361	0.75	<0.05	0.60	0.12	572	12	-
41.50	07/16/97	387	0.56	<0.05	0.60	0.06	642	13	-
41.50	07/24/97	410	0.58	0.08	0.40	0.12	624	12	150
41.50	08/26/97	295	1.49	0.07	0.80	0.17	-	-	4,700
41.50	09/04/97	369	0.83	0.05	0.50	0.22	634	16	220
32.50	06/30/97	337	0.28	<0.05	0.80	0.14	502	30	-
32.50	07/16/97	379	0.36	<0.05	0.70	0.07	588	32	90
32.50	07/24/97	338	0.67	0.10	0.50	0.14	541	30	70
32.50	08/26/97	284	3.4	0.10	0.70	<0.05	477	45	970
32.50	09/04/97	346	0.48	0.06	0.89	0.12	574	41	160
18.90	06/30/97	212	1.4	0.09	0.90	0.2	330	32	-
18.90	07/16/97	348	0.19	0.09	0.20	<0.05	500	16	90
18.90	07/24/97	338	<0.1	0.14	0.50	0.16	490	26	160
18.90	08/26/97	248	3.96	0.12	1.10	0.55	422	74	5,700
18.90	09/04/97	294	1.45	0.13	0.59	0.13	501	33	180
11.30	06/30/97	133	2	<0.05	0.90	0.24	296	42	-
11.30	07/16/97	318	<0.1	<0.05	0.80	-	-	-	120
11.30	07/24/97	328	<0.1	0.05	0.60	0.08	470	27	90
11.30	08/26/97	255	1.16	0.06	0.70	0.55	446	52	1,500
11.30	09/04/97	274	2.46	0.08	0.73	0.12	444	24	460

Appendices to the 1997 Biological and Water Quality Study of the Black River Basin

Appendix Table 1. (cont.)

Stream/ River Mile	Date	Hardness (mg/l)	NO ₂ -NO ₃ - N (mg/l)	NH ₃ -N (mg/l)	Total Kjeldahl Nitrogen (mg/l)	Total Phosphorus (mg/l)	Total Dissolved Solids (mg/l)	Total Suspended Solids (mg/l)	Fecal Coliform Bacteria (col./100ml)
East Branch Black River (cont.)									
10.10	06/30/97	-	2.38	0.09	1.00	0.43	296	30	-
10.10	07/16/97	285	1.29	0.10	-	0.63	444	18	220
10.10	07/24/97	275	2.18	0.14	0.8	1.28	438	8	-
10.10	08/26/97	250	1.22	<0.05	0.7	0.23	434	44	610
10.10	09/04/97	254	3.84	0.15	0.8	0.85	418	15	300
6.00	06/30/97	161	2.42	0.07	0.9	0.37	284	26	-
6.00	07/16/97	301	0.17	<0.05	0.8	0.22	430	18	240
6.00	07/24/97	279	0.33	0.08	0.7	0.4	434	12	380
6.00	08/26/97	215	2.21	0.06	0.8	1.11	386	41	1,100
6.00	09/04/97	252	2.72	0.21	0.8	0.25	412	15	-
5.20	06/30/97	175	2.15	0.08	0.9	0.43	298	27	-
5.20	07/16/97	285	0.37	<0.05	0.8	0.23	-	-	450
5.20	07/24/97	279	0.43	0.09	0.6	0.45	434	14	200
5.20	08/26/97	155	2.14	0.07	1.2	0.55	300	32	2,500
5.20	09/04/97	243	1.79	0.14	0.88	0.22	398	14	560
3.00	06/30/97	158	1.95	0.14	0.9	0.88	314	16	-
3.00	07/16/97	280	<0.10	<0.05	1.0	0.21	414	10	500
3.00	07/24/97	274	0.39	0.23	0.8	0.13	426	<5	2,100
3.00	08/26/97	199	2.24	0.08	0.9	0.3	360	45	1,200
3.00	09/04/97	246	2.39	0.09	0.9	0.53	382	6	1,200
0.30	06/30/97	212	1.07	<0.05	0.8	0.52	328	16	-
0.30	07/16/97	220	<0.10	<0.05	0.2	0.19	354	18	70
0.30	07/24/97	279	0.28	0.14	0.7	0.25	422	6	1,000
0.30	08/26/97	187	2.78	0.13	1.1	0.32	344	33	1,800
0.30	09/04/97	239	1.85	0.05	1.2	0.14	384	16	1,200
West Branch Black River									
0.10	06/30/97	271	0.71	0.05	0.70	0.20	392	6	-
0.10	07/16/97	257	0.42	<0.05	0.70	0.06	394	6	1,200
0.10	07/24/97	250	0.52	0.12	0.60	0.10	392	<5	1,700
0.10	08/26/97	218	4.37	0.09	1.00	0.24	384	42	1,600
0.10	09/04/97	251	3.60	<0.05	0.90	0.08	401	12	1,400
East Fork E. Branch Black River									
2.70	06/30/97	342	0.10	<0.05	<0.10	0.11	556	6	-
2.70	07/16/97	419	0.11	<0.05	<0.10	<0.05	664	<5	180
2.70	07/24/97	404	<0.10	<0.05	<0.10	0.07	652	<5	210
2.70	08/26/97	253	1.25	<0.05	0.40	0.10	510	<5	1,900
2.70	09/04/97	365	<0.10	0.10	0.20	0.06	630	<5	60

Appendix Table 1. (cont.)

Stream/ River Mile	Date	Hardness (mg/l)	NO ₂ -NO ₃ - N (mg/l)	NH ₃ -N (mg/l)	Total Kjeldahl Nitrogen (mg/l)	Total Phosphorus (mg/l)	Total Dissolved Solids (mg/l)	Total Suspended Solids (mg/l)	Fecal Coliform Bacteria (col./100ml)
East Fork E. Branch Black River (cont.)									
0.10	06/30/97	369	1.02	0.62	1.00	0.49	700	6	-
0.10	07/16/97	389	2.73	0.08	0.70	0.61	876	14	280
0.10	07/24/97	353	4.96	0.16	0.30	0.76	844	5	610
0.10	08/26/97	243	1.64	<0.05	0.50	0.26	518	11	2,500
0.10	09/04/97	376	2.04	0.78	1.31	0.44	794	<5	200
Willow Creek									
6.00	06/30/97	159	<0.10	1.25	2.50	1.06	276	9	-
6.00	07/16/97	181	<0.10	2.31	4.40	1.27	320	14	55,000
6.00	07/24/97	178	<0.10	14.00	23.90	4.25	336	32	11,000
6.00	08/26/97	163	1.55	0.18	2.00	0.50	326	14	500
6.00	09/04/97	214	0.29	1.35	2.60	0.51	390	14	3,400
5.00	06/30/97	222	1.16	1.57	0.77	2.30	388	11	-
5.00	07/16/97	223	6.31	0.27	1.50	0.54	430	30	340
5.00	07/24/97	201	1.10	2.46	3.00	1.65	302	34	270
5.00	08/26/97	148	1.33	0.15	1.20	0.36	300	26	970
5.00	09/04/97	234	1.10	0.34	0.90	0.35	440	34	600
2.90	06/30/97	200	0.79	0.10	0.80	0.44	378	19	-
2.90	07/16/97	241	0.89	<0.05	0.80	0.23	424	22	2,100
2.90	07/24/97	241	0.64	0.07	0.50	0.25	462	14	100
2.90	08/26/97	157	1.49	0.10	1.30	0.66	288	34	730
2.90	09/04/97	241	2.94	0.09	0.80	0.27	438	16	600
French Creek									
6.10	06/30/97	250	4.23	0.07	0.60	0.38	514	16	-
6.10	07/16/97	173	0.89	<0.05	0.50	<0.05	332	<5	340
6.10	07/24/97	251	2.93	0.06	0.60	0.11	456	13	1,800
6.10	08/26/97	220	2.10	0.08	0.80	0.15	442	26	1,800
6.10	09/04/97	224	1.52	0.06	0.52	0.12	432	8	800
3.20	06/30/97	260	6.06	0.11	0.80	0.29	504	18	-
3.20	07/16/97	207	1.19	<0.05	0.70	0.07	430	11	800
3.20	07/24/97	217	0.31	0.10	0.50	0.13	380	8	900
3.20	08/26/97	239	2.32	0.06	0.80	0.15	428	35	1,300
3.20	09/04/97	231	2.01	<0.05	0.62	0.12	436	10	1,000
0.40	06/30/97	260	7.50	<0.05	0.70	0.32	560	<5	-
0.40	07/16/97	251	11.80	<0.05	1.00	0.08	-	-	1,800
0.40	07/24/97	253	16.70	0.09	0.60	0.19	600	<5	1,000
0.40	08/26/97	237	2.69	0.06	0.70	0.24	450	11	-
0.40	08/26/97	234	2.62	<0.05	0.70	0.17	442	12	1,900
0.40	09/04/97	245	6.09	0.03	0.71	0.09	504	<5	680

Appendix Table 2. Concentrations (mg/kg dry weight) of base-neutral-acid extractable organic compounds detected in the sediments of the Black River Study Area, 1996 and 1997^a.

Stream/ River Mile/ Depth	Acenaphthene (83-32-9)	Acenaphthyl ene (208-96-8)	Anthracene (120-12-7)	Benzo (a) anthracene (56-55-3)	Benzo (b) fluoranthene (205-99-2)	Benzo (k) fluoranthene (207-08-9)	Benzo- fluoranthenes
Black River							
0.19 ^b	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	--
0.27/ (grab) ^c	0.028	** (0.063) ^d	0.058	0.260	--	--	0.740
0.27/ (0-6") ^c	0.025	0.0029	0.048	0.180	--	--	0.500
0.27 (6-21") ^c	0.140	0.006	0.370	0.570	--	--	0.950
0.46	<0.7	<0.7	<0.7	<0.7	<0.07	<0.7	--
2.42	<0.7	<0.7	<0.7	1.6	2.0	1.5	--
2.42/ (0-4") ^c	0.070	0.026	0.210	0.820	--	--	1.600
2.42/ (4-11") ^c	0.011	0.0029	0.021	0.070	--	--	0.150
2.51/ (grab) ^c	0.200	0.170	0.780	3.400	--	--	6.000
2.51/ (0-4") ^c	0.220	0.016	0.310	0.900	--	--	1.500
2.51/ (4-9") ^c	1.500	0.120	1.600	3.500	--	--	5.600
2.88	<0.8	<0.8	<0.8	0.8	0.9	<0.8	--
2.88/ (grab) ^c	0.063	0.036	0.200	0.560	--	--	1.400
2.88/ (0-4") ^c	0.052	0.012	0.140	0.590	--	--	1.400
2.88/ (4-18") ^c	0.012	0.0014	0.019	0.066	--	--	0.220

^aSamples collected in 1997 unless otherwise noted. Analyses for other priority pollutants not listed found none at detectable concentrations.

^bSample collected in 1996.

^cData provided by Dr. Paul Baumann, USGS-OSU.

^dPeak detected but did not meet quantification criteria.

Appendix Table 2. Continued.

Stream/ River Mile/ Depth	Acenaphthene (83-32-9)	Acenaphthyl ene (208-96-8)	Anthracene (120-12-7)	Benzo (a) anthracene (56-55-3)	Benzo (b) fluoranthene (205-99-2)	Benzo (k) fluoranthene (207-08-9)	Benzo- fluoranthenes
4.11	<0.9	<0.9	<0.9	<0.9	0.9	<0.9	--
4.11	0.042	0.004	0.085	0.530	--	--	1.800
(0-4") ^a							
4.11/ (4-24") ^a	0.280	0.010	0.780	0.700	--	--	0.790
4.11 (24-48") ^a	0.015	0.0056	0.061	0.190	--	--	0.240
4.11/ (48-54") ^a	** (0.0052) ^b	** (0.0029) ^b	0.0043	** (0.0072) ^b	--	--	** (0.0110) ^b
5.15	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	--
5.80 ^c	<0.6	<0.6	<0.6	<0.6	0.7	<0.6	--
9.81	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
11.60	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
W. Branch Black River							
19.60 ^c	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
E. Branch Black River							
11.40 ^c	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	--
18.90	--	--	--	--	--	--	--
30.00 ^c	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	--
32.50	--	--	--	--	--	--	--
Willow Creek							
2.90	--	--	--	--	--	--	--
French Creek							
3.20 ^c	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
6.10 ^c	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--

^aData provided by Dr. Paul Baumann, USGS-OSU.

^bEstimated concentration. Peak detected but did not meet quantification criteria.

^cSample collected in 1996.

Appendix Table 2. Continued.

Stream/ River Mile/ Depth	Benzo (g,h,i) perylene (191-24-2)	Benzo (a) pyrene (50-32-8)	Benzo (e) pyrene (192-97-2)	bis(2- ethylhexyl) phthalate (117-81-7)	Chrysene (218-01-9)	Dibenzo (a,h) anthracene (53-70-3)	Fluor- anthene (206-44-0)
Black River							
0.19 ^a	<0.8	<0.8	--	1.8	0.8	<0.8	1.5
0.27/ (grab) ^b	0.310	0.300	0.320	--	0.480	0.063	0.660
0.27/ (0-6") ^b	0.200	0.190	0.210	--	0.320	0.039	0.480
0.27/ (6-21") ^b	0.320	0.430	0.370	--	0.700	0.073	** (1.000) ^c
0.46	<0.7	<0.7	--	1.5	<0.7	<0.7	<0.7
2.42	1.7	1.7	--	<0.7	2.0	<0.7	2.2
2.42/ (0-4") ^b	0.720	0.700	0.730	--	1.000	0.180	1.100
2.42/ (4-11") ^b	** (0.100) ^c	0.062	0.067	--	0.100	0.024	0.110
2.51/ (grab) ^b	1.900	2.700	2.100	--	3.800	0.480	5.200
2.51/ (0-4") ^b	0.580	0.720	0.650	--	1.100	0.150	1.300
2.51/ (4-9") ^b	1.400	2.800	1.900	--	4.000	0.420	7.500
2.88	<0.8	0.8	--	<0.8	1.1	<0.8	2.0
2.88/ (grab) ^b	0.520	0.590	0.530	--	0.990	0.100	1.900
2.88/ (0-4") ^b	** (0.570) ^c	0.600	0.590	--	0.890	0.120	1.400
2.88/ (4-18") ^b	0.081	0.067	0.096	--	0.130	0.013	0.180
4.11	<0.9	<0.9	--	1.2	1.1	<0.9	1.7

^aSample collected in 1996.

^bData provided by Dr. Paul Baumann, USGS-OSU.

^cEstimated concentration. Peak detected but did not meet quantification criteria.

Appendix Table 2. Continued.

Stream/ River Mile/ Depth	Benzo (g,h,i) perylene (191-24-2)	Benzo (a) pyrene (50-32-8)	Benzo (e) pyrene (192-97-2)	bis(2- ethylhexyl) phthalate (117-81-7)	Chrysene (218-01-9)	Dibenzo (a,h) anthracene (53-70-3)	Fluor- anthene (206-44-0)
4.11/ (0-4") ^a	0.580	0.870	0.660	--	1.000	0.130	1.900
4.11/ (4-24") ^a	0.170	0.310	0.320	--	0.940	0.040	3.300
4.11/ (24-48")	0.065	0.100	0.096	--	0.250	** (0.013) ^b	0.470
4.11/ (48-54")	0.039	<0.0038	--	--	0.024	<0.0022	0.011
5.15	<0.7	<0.7	--	0.7	0.8	<0.7	1.3
5.80 ^c	<0.6	<0.6	--	<0.6	<0.5	<0.6	0.8
9.81	<0.5	<0.5	--	<0.5	0.6	<0.5	1.1
11.60	<0.5	<0.5	--	<0.5	<0.5	<0.5	1.1
W. Branch Black River							
19.60 ^c	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
E. Branch Black River							
11.40 ^c	<0.8	<0.8	--	<0.8	<0.8	<0.8	<0.8
18.90	--	--	--	--	--	--	--
30.00 ^c	<0.6	<0.6	--	<0.6	<0.6	<0.6	<0.6
32.50	--	--	--	--	--	--	--
Willow Creek							
2.90	--	--	--	--	--	--	--
French Creek							
3.20 ^c	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
6.10 ^c	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5

^aData provided by Dr. Paul baumann, USGS-OSU.

^bPeak detected but did not meet quantification criteria.

^cSample collected in 1996.

Appendix Table 2. Continued.

Stream/ River Mile/ Depth	Fluorene (86-73-7)	Indeno (1,2,3-cd) pyrene (193-39-5)	3 & 4 Methyl- phenol (106-44-5)	Naphthalene (91-20-3)	Perylene (198-55-0)	Phenanthrene (85-01-8)	Pyrene (129-00-0)
Black River							
0.19 ^a	<0.8	<0.8	2.2	<0.8	--	0.9	1.2
0.27/ (grab) ^b	0.052	0.310	--	0.087	0.140	0.320	0.660
0.27/ (0-6") ^b	0.050	0.200	--	0.099	0.094	0.300	0.410
0.27/ (6-21") ^b	0.220	0.340	--	0.170	0.220	** (1.100) ^c	** (0.970) ^c
0.46	<0.7	<0.7	<0.7	<0.7	--	<0.7	<0.7
2.42	<0.7	1.8	<0.7	0.7	--	1.0	1.7
2.42/ (0-4") ^b	0.120	0.800	--	0.480	0.450	0.640	0.990
2.42/ (4-11") ^b	0.018	0.086	--	0.049	0.650	0.069	0.100
2.51/ (grab) ^b	0.270	2.400	--	0.910	0.950	1.900	3.800
2.51 (0-4") ^b	0.290	0.600	--	0.330	0.310	1.100	1.300
2.51/ (4-9") ^b	1.500	1.600	--	1.000	0.890	5.300	5.900
2.88	<0.8	<0.8	1.1	<0.8	--	1.2	1.6
2.88/ (grab) ^b	0.170	0.570	--	0.620	0.220	1.300	1.700
2.88/ (0-4") ^b	0.120	** (0.610) ^c	--	0.270	0.250	0.790	1.100
2.88/ (4-18") ^b	0.020	0.063	--	0.061	1.100	0.120	0.160
4.11	<0.9	<0.9	1.9	<0.9	--	<0.9	1.4

^aSample collected in 1996.

^bData provided by Dr. Paul Baumann, USGS-OSU.

^cEstimated concentration. Peak detected but did not meet quantification criteria.

Stream/ River Mile/ Depth	Fluorene (86-73-7)	Indeno (1,2,3-cd) pyrene (193-39-5)	3 & 4 Methyl- phenol (106-44-5)	Naphthalene (91-20-3)	Perylene (198-55-0)	Phenanthrene (85-01-8)	Pyrene (129-00-0)
4.11/ (0-4") ^a	0.094	0.640	--	0.093	0.230	0.680	1.500
4.11/ (4-24") ^a	0.420	0.210	--	0.060	0.110	3.000	2.600
4.11/ (24-48") ^a	0.040	** (0.075) ^b	--	0.018	0.310	0.310	0.440
4.11/ (48-54")	0.027	** (0.0093) ^b	--	0.020	0.590	0.055	0.018
5.15	<0.7	<0.7	<0.7	<0.7	--	<0.7	1.0
5.80 ^c	<0.6	<0.6	<0.6	<0.6	--	0.6	1.0
9.81	<0.5	<0.5	<0.5	<0.5	--	0.6	0.7
11.60	<0.5	<0.5	<0.5	<0.5	--	0.7	1.0
W. Branch Black River							
19.60 ^c	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5
E. Branch Black River							
11.40 ^c	<0.8	<0.8	<0.8	<0.8	--	<0.8	<0.8
18.90	--	--	--	--	--	--	--
30.00 ^c	<0.6	<0.6	<0.6	<0.6	--	<0.6	<0.6
32.50	--	--	--	--	--	--	--
Willow Creek							
2.90	--	--	--	--	--	--	--
French Creek							
3.20 ^c	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5
6.10 ^c	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5

^aData provided by Dr. Paul Baumann, USGS-OSU.

^bPeak detected but did not meet quantification criteria.

^cSample collected in 1996.

Appendix Table 3. Concentrations ($\mu\text{g}/\text{kg}$ dry weight) of PCB's and pesticide compounds detected in the sediments of the Black River Study Area, 1996 and 1997^d.

Stream/ River Mile	4-4' - DDD (72-54-8)	4,4' - DDE (72-55-9)	4,4' - DDT (50-29-3)	Endosulfan Sulfate (1031-07-8)	PCB-1242 (53469-21-9)	PCB-1254 (11097-69-1)	PCB-1260 (11096-82-5)
Black River							
0.19 ^e	<7.6	<7.6	<7.6	<7.6	<68	68	<68
0.27/ (grab) ^c	--	--	--	--	25	47	16
0.27/ (0-6") ^f	--	--	--	--	7.3	20	7.4
0.27/ (6-21") ^c	--	--	--	--	18	45	17
0.46	<7.4	<7.4	<7.4	<7.4	<37	<37	<37
2.42	<7.0	<7.0	<7.0	<7.0	<35	<35	<35
2.42/ (0-4") ^c	--	--	--	--	12	25	8.1
2.42/ (4-11") ^c	--	--	--	--	1.2	3.6	<1.3
2.51/ (grab) ^c	--	--	--	--	4.7	13	3.1
2.51/ (0-4") ^c	--	--	--	--	24	53	14
2.51/ (4-9") ^c	--	--	--	--	110	270	44
2.88	<7.6	<7.6	<7.6	<7.6	<38	58	46
2.88/ (grab) ^c	--	--	--	--	22	60	18
2.88/ (0-4") ^c	--	--	--	--	24	46	16
2.88 (4-18") ^c	--	--	--	--	4.3	8.7	2.8
4.11	<9.0	10.0	9.8	<9.0	<45	<45	<45

^dSamples collected in 1997 unless otherwise noted.

^eSample collected in 1996.

^fData provided by Dr. Paul Baumann, USGS-OSU.

Appendix Table 3. Continued.

Stream/ River Mile	4-4' - DDD (72-54-8)	4,4' - DDE (72-55-9)	4,4' - DDT (50-29-3)	Endosulfan Sulfate (1031-07-8)	PCB-1242 (53469-21-9)	PCB-1254 (11097-69-1)	PCB-1260 (11096-82-5)
4.11 (0-4") ^a	--	--	--	--	17	42	16
4.11 (4-24") ^a	--	--	--	--	87	150	39
4.11 (24-48") ^a	--	--	--	--	34	57	14
4.11 (48-54") ^a	--	--	--	--	<2.4	<0.79	<0.34
5.20	<7.1	<7.1	<7.1	<7.1	<35	41	<35
5.80 ^b	<6.2	<6.2	<6.2	<6.2	<31	42	<31
9.81	<4.9	<4.9	<4.9	<4.9	<24	45	<24
11.60	<5.7	<5.7	<5.7	<5.7	<28	99	<28
W. Branch Black River							
19.60 ^b	<5.1	<5.1	<5.1	<5.1	<26	<26	<26
E. Branch Black River							
11.40 ^b	<7.6	<7.6	<7.6	<7.6	<38	<38	<38
18.90	<4.9	<4.9	<4.9	<4.9	--	--	--
30.00 ^b	<6.3	<6.3	<6.3	<6.3	<31	<31	<31
32.50	<4.9	<4.9	<4.9	<4.9	--	--	--
Willow Creek							
2.90	<4.9	<4.9	<4.9	<4.9	--	--	--
French Creek							
3.20 ^b	<5.2	6.4	5.7	6.7	<26	<26	<26
6.10 ^b	5.3	8.9	8.7	9.1	<26	<26	<26

^aData provided by Dr. Baumann, USGS-OSU.

^bSample collected in 1996.

Appendix Table 4. Continued. Particle size characteristics, percent total organic carbon, and concentrations (mg/kg dry weight) of heavy metals in sediments from the Black River Study Area, 1996 and 1997^c.

River Mile/ Depth	Particle Size Characteristics	Percent TOC	Percent Solids	Arsenic	Barium	Cadmium	Chromium
Black River							
0.19 ^d	Sand/Silt	2.0	45.6	NA	79.7	<u>3.4</u>	26.3
0.27/ (grab) ^c	--	2.5	47.9	<100	174	<2	55
0.27/ (0-6") ^c	--	2.2	47.9	<100	179	<2	52
0.27/ (6-21") ^c	--	2.3	45.2	<100	158	<2	49
0.46	Sand/Silt	1.9	54.8	8.73	231	1.3	23.6
2.42	Silt/Sand	1.9	52.6	16.5	174	<u>10.4^f</u>	<u>63.2</u>
2.42/ (0-4") ^c	--	5.0	45.1	<100	112	4	46
2.42/ (4-21") ^c	--	6.2	46.4	<100	102	3	31
2.51/ (grab) ^c	Clay/Sand	3.8	72.7	<100	61	5	43
2.51/ (0-4") ^c	--	3.1	59.4	<100	112	3	43
2.51/ (4-9") ^c	--	3.4	65.5	<100	98	4	<u>54</u>
2.88	Silt/Sand	1.9	44.8	9.25	136	<u>3.69</u>	45.4
2.88/ (grab) ^c	--	3.1	54.1	<100	118	4	<u>53</u>
2.88/ (0-4") ^c	--	2.7	53.6	<100	99	4	48

^cSamples collected in 1997 unless otherwise noted.

^dSample collected in 1996.

^eData provided by Dr. Paul Baumann, USGS-OSU.

^fExceeds Ontario severe effect level (Persuad, et al., 1993).

Key to data: Non-elevated; *Slightly elevated*; *Elevated*; **Highly elevated**; **Extremely elevated** as compared to Ohio reference sites in the Erie-Ontario Lake Plain Ecoregion.

Appendix Table 4. Continued.

River Mile/ Depth	Particle Size Characteristics	Percent TOC	Percent Solids	Arsenic	Barium	Cadmium	Chromium
2.88/ (4-18") ^c	--	1.69	72.6	<100	55	<2	25
4.11	Silt/Sand	2.2	39.8	15.6	274	<u>4.94</u>	<u>74.1</u>
4.11/ (0-4") ^a	--	2.9	49.7	<100	139	<u>5</u>	<u>56</u>
4.11/ (4"-24") ^a	--	3.7	58.0	<100	154	<u>15^b</u>	<u>82</u>
4.11/ (24"-48") ^a	--	3.1	65.5	<100	100	<u>4</u>	44
4.11/ (48"-54") ^a	--	2.0	70.1	<100	66	<2	23
5.15	Sand/Silt	1.4	52.8	9.77	153	<u>3.41</u>	45.4
5.80	Sand/Silt	1.2	56.5	NA	40.2	<u>3.1</u>	22.5
9.81	Sand	1.3	73.8	9.79	71.9	<u>5.06</u>	<u>60.3</u>
11.60	Sand/Silt	1.1	68.4	10.5	102	<u>6.05</u>	<u>55.9</u>
W. Branch Black River							
19.60 ^c	Sand/Silt	0.5	69.4	NA	22.8	0.1	5.4
E. Branch Black River							
11.40 ^c	Sand/Silt	1.0	43.1	NA	52.8	0.2	10.1
18.90	Sand	0.5	85.6	6.13	62.6	<0.0882	15
30.00 ^c	Sand/Silt	1.0	58.8	NA	58.3	0.2	9.8
32.50	Sand	0.3	84.0	4.03	28.8	0.114	<13.7
Willow Creek							
2.90	Sand	1.1	76.8	9.29	98	0.23	15.3
French Creek							
3.20 ^c	Sand	0.1	68.7	NA	15.9	0.4	4.9
6.10 ^c	Sand	0.2	69.7	NA	22.0	0.2	4.7

^aData provided by Dr. Paul Baumann, USGS-OSU.

^bExceeds Ontario severe effect level (Persuad, et al., 1993).

^cSample collected in 1996.

Key to data: Non-elevated; *Slightly elevated*; *Elevated*; **Highly elevated**; **Extremely elevated** as compared to Ohio reference sites in the Erie-Ontario Lake Plain Ecoregion.

Appendix Table 4. Continued.

River Mile/ Depth	Copper	Iron	Lead	Mercury^d	Nickel	Zinc
Black River						
0.19 ^e	<u>248.4^f</u>	<u>120,830^e</u>	35.9	<i>0.129</i>	<i>29.8</i>	<u>757.3</u>
0.27/ (grab) ^d	56	<i>48,600^e</i>	<50	--	50	254
0.27/ (0-6") ^g	41	<i>46,200^e</i>	<50	--	47	208
0.27/ (6-21") ^d	49	<i>44,600^e</i>	<50	--	43	218
0.46	20.8	24,900	100	0.0506	<28.6	137
2.42	39.9	<i>57,100^e</i>	<i>67.4</i>	<i>0.166</i>	<i>35.6</i>	<u>402</u>
2.42/ (0-4") ^d	38	<i>43,400^e</i>	<50	--	32	280
2.42/ (4-11") ^d	28	21,900	<50	--	44	199
2.51/ (grab) ^d	47	<i>70,400^e</i>	<50	--	31	307
2.51/ (0-4") ^d	40	<i>36,300</i>	<50	--	35	171
2.51/ (4-9") ^d	54	<i>48,800^e</i>	<50	--	39	213
2.88	40.6	26,900	50.3	0.224	34.9	171
2.88/ (grab) ^d	55	33,200	<50	--	50	254
2.88/ (0-4") ^d	55	<i>35,700</i>	<50	--	40	207
2.88/ (4-18") ^d	25	23,100	<50	--	30	118

^dComparisons for Mercury are made to data from Illinois streams (Kelly and Hite, 1984).

^eSample collected in 1996.

^fExceeds Ontario severe effect level (Persuad, et al., 1993).

^gData provided by Dr. Paul Baumann, USGS-OSU.

Key to data: Non-elevated; *Slightly elevated*; *Elevated*; *Highly elevated*; **Extremely elevated** as compared to Ohio reference sites in the Erie-Ontario Lake Plain Ecoregion.

Appendix Table 4. Continued.

River Mile/ Depth	Copper	Iron	Lead	Mercury ^a	Nickel	Zinc
4.11	52.8	<i>37,000</i>	<i>56.2</i>	<i>0.0925</i>	51.1	245
4.11/ (0-4") ^b	59	<i>37,700</i>	<i>51</i>	--	48	236
4.11/ (4"-24") ^b	<u>151</u>^d	<i>41,200^d</i>	<i>69</i>	--	<u>92</u>^d	<u>369</u>
4.11/ (24"-48") ^b	48	<i>29,700</i>	<50	--	45	260
4.11/ (48"-54") ^b	<i>18</i>	<i>17,100</i>	<50	--	<i>25</i>	<i>101</i>
5.15	35.6	<i>24,700</i>	<i>40.2</i>	<i>0.0756</i>	35.6	158
5.80 ^c	<u>131.6</u>^d	<i>65,957^d</i>	<i>23.4</i>	<i>0.0852</i>	<i>21.9</i>	<u>430.5</u>
9.81	48.7	<i>17,100</i>	<i>39.3</i>	<i>0.116</i>	33.7	126
11.60	48.7	<i>29,300</i>	<i>30.3</i>	<i>0.196</i>	36.9	134
W. Branch Black River						
19.60 ^c	<i>7.1</i>	<i>11,324</i>	<i>5.9</i>	<0.0301	<i>9.4</i>	<i>36.3</i>
E. Branch Black River						
11.40 ^c	36.8	<i>46,666^d</i>	<i>10.9</i>	<i>0.0320</i>	<i>15.9</i>	<i>149.9</i>
18.90	<i>11.5</i>	<i>18,400</i>	<17.6	<i>0.0507</i>	<17.6	<i>43.2</i>
30.00 ^c	<i>8.0</i>	<i>16,480</i>	<i>10.1</i>	<i>0.0357</i>	<i>16.5</i>	<i>50.1</i>
32.50	<4.58	<i>8,390</i>	<18.3	<0.0192	<18.3	<i>42.6</i>
Willow Creek						
2.90	<i>11.7</i>	<i>16,300</i>	<i>26</i>	<0.0282	<20.4	<i>63.8</i>
French Creek						
3.20 ^c	<i>41.8</i>	<i>47,624^d</i>	<i>7.8</i>	<i>0.0232</i>	<i>10.9</i>	<i>221.0</i>
6.10 ^c	<i>38.7</i>	<i>15,802</i>	<i>10.1</i>	<0.0216	<i>9.9</i>	<i>78.9</i>

^aComparisons for Mercury are made to data from Illinois streams (Kelly and Hite, 1984).

^bData provided by Dr. Paul Baumann, USGS-OSU.

^cSample collected in 1996.

^dExceeds Ontario severe effect level (Persuad, et al., 1993).

Key to data: Non-elevated; *Slightly elevated*; ***Elevated***; **Highly elevated**; **Extremely elevated** as compared to Ohio reference sites in the Erie-Ontario Lake Plain Ecoregion.

Appendix Table 5. Spill Records for the Black River Basin, 1995 - 1997.

Year	Waterway	Suspected source	Location	Product	Amount	Units
1995		Grafton correctional facility	2500 s avon-beldon rd	Sewage	0.0	Unk
	Beaver creek	Citizen	Super america at 712 n leabitt amherst	Gasoline	1.0	Gal
	Black river	Unknown	Stored maintenance garage	Oil	1.0	Gal
	Black river	Uss kobe steel	1807 e 28th st	Waste water	0.0	Unk
	Black river	Unknown	Black river	Gasoline	20.0	Gal
	Black river	Uss/ kobe steel co.	1807 east 28th st	Waste water	0.0	Unk
	Black river	Uss kobe steel	1807 e 28th, outfall 3id00028006	Waste water	0.0	Unk
	Black river	Lorain wwtp	Black river plant	Sewage	0.0	Unk
	Black river	Rose ann lane	Trailer park at 405 oberlan	Sewage	0.0	
	Black river	Uss kobe steel	1807 e 28th st	Waste water	0.0	Unk
	Black river	Uss/ kobe steel co.	1807 e 28th st	Waste water	0.0	
	Black river	Colby steel	Spitzer marina	Black dust	0.0	Unk
	Black river	Englehard co	120 pine st	Copper chloride	3.0	Gal
	Black river	Colby steel	Spitzer marina	Black dust	0.0	Unk
	Black river	Mr david st albans	Spitzer & merrand rds	#2 diesel fuel	15.0	Gal
	Black river	Uss kobe steel	1807 e 28th	Waste water	0.0	Unk
	Catch basin to storm sewer	Unknown	Wellington upground reservoir	Gasoline	5.0	Gal
	East branch black river	Englehard company	120 pine street	Aluminum	0.0	Unk
	East branch black river	Englehard company	120 pine street	Powdercala	0.0	Unk
	Findlay lake	Odnr parks	25381 sr 58	Sewage	75.0	Gal
	French creek	Undetermined	Lorain rd crosses root rd	Sewage	0.0	Unk
	French creek potw	Metokote	5477 evergreen pkw	Waste water	0.0	Unk
	Not noted in report	Village of spencer	11680 spencer mills rd	Wwater discharge over limit	0.0	
	Plum creek	Oberlin wwtp	Sr 511 east	Sewage	0.0	Unk
	Plum creek	Oberlin wwtp	44436 sr 511	Sewage	0.0	Unk
	Plum creek	Oberlin	Sr 511 east	Sewage	0.0	Unk
	Plum creek	Federal aviation administration	326 e lorain st	#2 fuel oil	25.0	Gal
	Plum creek	Oberlin wwtp	85 s main st	Sewage	0.0	Unk
	Plum creek	Oberlin wwtp	Sr 511 east	Sewage	0.0	Unk
	Plum creek	Oberlin wwtp	85 s main st	Sewage	0.0	Unk

Year	Waterway	Suspected source	Location	Product	Amount	Units
	Plum creek	Oberlin wwtp	Sr 511 e	Waste water	0.0	Unk
	Schumaker ditch	Morabito material sales	1408 abbe road	Slag leachate	0.0	
	Spencer creek	Spencer village	327 n main st	Waste water	0.0	Unk
	Spencer creek	Spencer	109 n main st	Waste water	0.0	Unk
	Spencer creek	Village of spencer	11680 spencer mills rd	Sewage	50000.0	Gal
	Spencer creek	Spencer wwtp	11680 spencer mills rd	Sewage	0.0	Unk
	Spencer creek	Spencer wwtp	Spencer mills rd	Sewage	0.0	Unk
	Spencer creek	Spencer wwtp	@ main plant	Waste water	0.0	Unk
	Spencer creek	Spencer village	11680 spencer mill rd	Permit violation	0.0	Unk
	Storm sewer	Bp oil	2 nd west st	Gasoline	1.0	Gal
	Trib to black river	Clark refining & marketing	228 east erie st	Gasoline	10.0	Gal
	Trib to black river	Liberty excavating	Sr 18 just e of sr 83	Diesel fuel	130.0	Gal
	Trib to black river	Shalmet ohio, inc	164 freedom court	Soluble cutting oil	25.0	Gal
	Trib to black river	Lad trucking, inc	Beside 1885 lake ave	Diesel fuel	50.0	Gal
	Trib to black river	Young chemical co.	6465 eastland rd @ sheldon rd	Waste chemicals	0.0	Unk
	Unknown creek	Spencer wwtp	Spencer mills rd	Waste water	0.0	Unk
	Unknown creek	Spencer wwtp	Spencer mills rd	Waste water	0.0	Unk
	Unknown creek	Spencer wwtp	Spencer mills rd	Waste water	0.0	Unk
	Unknown creek	Spencer wwtp	Spencer mills rd	Waste water	0.0	Unk
1997		Elyria manufacturing	38830 taylor industrial pky	Water soluble oil	0.0	Unk
		Oberlin	Same	Sewage	0.0	
		Oberlin wwtp	Route 511	Sewage	0.0	
1997	Black river	Uss/kobe steel	1807 e 28 th st	Waste water	0.0	Unk
	Black river	Uss/kobe steel	Pearl st 28th st	Oil	0.0	Unk
	Black river	Jonick terminal	Behind jonick terminal marine	Oil/tar mixture	0.0	Unk
	Black river	Uss/kobe steel	1807 e 28th st	Waste water	0.0	Unk
	Black river	E-z serve petroleum marketing co	705 oberlin rd	Gasoline	0.0	Unk
	Black river	Uss/kobe steel	Outfall 003,004	Fuel oil	0.0	Unk
	Black river	Uss/kobe steel	1807 e 28th st	Waste water	0.0	Unk
	Black river	Uss/kobe steel	1807 e 28th st	Waste water	5000.0	Gal
	Black river	Uss/kobe steel	1807 e 28th st	Waste water	7000.0	Gal

Year	Waterway	Suspected source	Location	Product	Amount	Units
	Black river	Uss/kobe steel	1807 e 28th st	Waste water outfall #005	0.0	Unk
	Black river	Uss/kobe steel	1807 e 28th st	Waste water	4050.0	Gal
	Black river	National gypsum	1901 henderson dr	Pariffan wax emulsion	2000.0	Gal
	Black river	Uss/kobe steel	1807 e 28th st	Waste water	100.0	Gal
	Black river	Uss/kobe steel	1807 e 28th st	Waste water	1000.0	Gal
	Black river trib.	Highway express	I-224 & cr 31	Diesel fuel	200.0	Gal
	Black river via ditch	Jim knapp trucking	2 m e of sullivan sr 224	Motor oil	10.0	Gal
	Black river via ditch	Jim knapp trucking	2 m e of sullivan sr 224	Diesel fuel	100.0	Gal
	Black river via ditch	Jim knapp trucking	2 m e of sullivan sr 224	Hydraulic oil	20.0	Gal
	Creek	Unknown	Sr 58 & us 224	Petroleum (unknown)	0.0	Unk
	Crow creek	Jaro transp	8632 norwalk road	Diesel fuel	100.0	Gal
	E. Branch, unnamed trib	Donald talbert	Sr 18 & sr 83	Diesel fuel	50.0	Gal
	East fork e. Branch	Southeastern pipe co	9226 coon club rd	Crude oil	300.0	Gal
	French creek	Unknown	Abbey rd	Unknown	0.0	Unk
	Plum creek	Oberlin wwtp	Influent station 601	Sewage	0.0	
	Plum creek	Oberlin wwtp	Same	Sewage and stormwater	0.0	
	Plum creek	Oberlin wwtp	Sr 511 e	Waste water	0.0	Unk
	Plum creek	Oberlin wwtp	Outfall	Waste water	0.0	Unk
	Plum creek	Oberlin wwtp	Outfall 001	Waste water	0.0	Unk
	Plum creek	Oberlin wwtp	Sr 511 e @ wwtp	Sewage	0.0	Unk
	Salt creek	Seville sand & gravel inc.	Sr 303 & sr 83	Diesel fuel	100.0	Gal
	Spencer lake	Mother nature	Spencer lake	Blue green algae	0.0	

Appendix Table 6. IBI scores, metrics, and fish community data for sites sampled in the Black River basin, 1997.

River Mile	Type	Date	Drainage area (sq mi)	Number of					Percent of Individuals					Rel.No. minus tolerants /(0.3km)	IBI	Modified Iwb	
				Total species	Sunfish species	Sucker species	Intolerant species	Darter species	Simple Lithophils	Tolerant fishes	Omnivores	Top carnivores	Insectivores				DELT anomalies
Black River - (20001)																	
Year: 1997																	
15.00	D	07/22/1997	396	19(3)	2(3)	2(1)	1(1)	4(3)	56(5)	26(3)	26(3)	2.7(3)	70(5)	0.0(5)	711(3)	38	8.3
15.00	D	09/03/1997	396	20(3)	4(5)	2(1)	0(1)	4(3)	34(3)	31(1)	37(1)	2.1(3)	60(5)	0.2(5)	494(3)	34	8.7
11.90	D	07/23/1997	411	14(3)	1(1)	4(3)	0(1)	3(1)	35(3)	23(3)	23(3)	7.1(5)	64(5)	0.0(5)	420(3)	36	7.9
11.90	D	09/03/1997	411	18(3)	2(3)	4(3)	0(1)	4(3)	24(3)	59(1)	59(1)	3.7(3)	37(3)	0.4(3)	443(3)	30	7.7
10.60	D	07/22/1997	412	12(3)	0(1)	3(3)	0(1)	3(1)	75(5)	20(3)	17(5)	4.0(3)	73(5)	2.7(1)	360(3)	34	7.5
10.60	D	09/10/1997	412	9(1)	2(3)	1(1)	0(1)	2(1)	57(5)	2(5)	2(5)	3.8(3)	94(5)	1.9(3)	312(3)	36	6.7
10.30	D	07/22/1997	412	16(3)	2(3)	4(3)	0(1)	4(3)	67(5)	13(5)	13(5)	13.4(5)	69(5)	0.0(5)	165(1) *	44	6.6
10.30	D	09/10/1997	412	14(3)	2(3)	1(1)	0(1)	3(1)	27(3)	45(1)	44(1)	8.0(5)	43(3)	0.0(5)	155(1)	28	6.9
8.50	D	07/22/1997	414	14(3)	2(3)	3(3)	0(1)	1(1)	44(5)	16(3)	16(5)	4.0(3)	74(5)	0.8(3)	531(3)	38	8.0
8.50	D	09/10/1997	414	14(3)	3(3)	1(1)	0(1)	1(1)	41(5)	20(3)	14(5)	6.6(5)	66(5)	0.8(3)	147(1) *	36	7.4
French Creek - (20002)																	
Year: 1997																	
6.10	E	07/22/1997	22	8(1)	2(3)	1(1)	0(1)	0(1)	6(1)	82(1)	8(5)	0.0(1)	15(1)	0.0(5)	44(1)	22	na
6.10	E	08/27/1997	22	7(1)	1(1)	1(1)	0(1)	0(1)	20(3)	82(1)	29(3)	0.0(1)	16(1)	1.9(3)	32(1) *	18	4.7
3.20	E	07/22/1997	27	11(3)	1(1)	1(1)	0(1)	0(1)	12(1)	56(1)	30(3)	0.0(1)	20(1)	0.0(5)	224(3)	22	6.1
3.20	D	08/26/1997	27	11(3)	3(3)	1(1)	0(1)	0(1)	25(3)	82(1)	37(1)	0.0(1)	22(1)	0.0(5)	80(1)	22	5.5
1.00	D	07/22/1997	28	15(3)	4(5)	1(1)	0(1)	2(3)	28(3)	22(5)	11(5)	7.1(5)	46(3)	0.0(5)	246(3)	42	7.5
1.00	D	08/26/1997	28	16(3)	2(3)	2(3)	0(1)	1(1)	38(5)	25(5)	29(3)	4.9(3)	58(5)	0.0(5)	296(3)	40	7.8
Beaver Creek - (20003)																	
Year: 1997																	
7.00	E	07/24/1997	20	9(3)	2(3)	0(1)	0(1)	2(3)	28(3)	22(5)	2(5)	0.0(1)	30(3)	0.0(5)	406(3)	36	na
7.00	E	08/27/1997	20	12(3)	3(3)	1(1)	0(1)	2(3)	5(1)	8(5)	3(5)	0.1(1)	5(1)	0.0(5)	1936(5)	34	6.4
4.60	E	07/24/1997	24	12(3)	2(3)	1(1)	0(1)	2(3)	25(3)	23(5)	8(5)	0.2(1)	29(3)	0.0(5)	834(5)	38	7.2

na - Qualitative data, Modified Iwb not applicable.

♦ - IBI is low end adjusted.

* - < 200 Total individuals in sample

** - < 50 Total individuals in sample

● - One or more species excluded from IBI calculation.

Appendix Table 6. IBI scores, metrics, and fish community data for sites sampled in the Black River basin, 1997.

River Mile	Type	Date	Drainage area (sq mi)	Number of					Percent of Individuals						Rel.No. minus tolerants /(0.3km)	IBI	Modified Iwb
				Total species	Sunfish species	Sucker species	Intolerant species	Darter species	Simple Lithophils	Tolerant fishes	Omnivores	Top carnivores	Insectivores	DELT anomalies			
4.60	E	08/27/1997	24	11(3)	2(3)	1(1)	0(1)	2(3)	30(3)	27(5)	8(5)	0.0(1)	35(3)	0.4(3)	752(5)	36	7.4
2.80	E	07/24/1997	24	5(1)	1(1)	0(1)	0(1)	0(1)	9(1)	89(1)	11(5)	0.0(1)	19(1)	0.0(5)	9(1) *	20	3.4
2.80	E	08/27/1997	24	8(1)	2(3)	1(1)	0(1)	1(1)	11(1)	30(3)	9(5)	0.0(1)	5(1)	0.0(5)	226(3)	26	5.1
E. Br. Black River - (20010)																	
Year: 1997																	
40.50	E	07/25/1997	71	21(3)	3(3)	3(3)	0(1)	3(3)	39(5)	20(5)	12(5)	2.4(3)	75(5)	0.0(5)	616(3)	44	7.1
40.50	E	09/09/1997	71	20(3)	4(5)	3(3)	0(1)	2(1)	40(5)	15(5)	11(5)	4.4(3)	77(5)	0.0(5)	424(3)	44	8.5
32.50	E	07/24/1997	105	16(3)	3(3)	3(3)	0(1)	2(1)	28(3)	57(1)	24(3)	1.4(3)	44(3)	0.0(5)	120(1)	30	6.8
18.90	E	07/24/1997	166	15(3)	3(3)	2(1)	0(1)	4(3)	37(5)	18(5)	10(5)	12.7(5)	73(5)	0.0(5)	172(1)	42	7.6
18.90	E	09/09/1997	166	18(3)	3(3)	3(3)	0(1)	3(3)	51(5)	16(5)	8(5)	7.4(5)	76(5)	0.7(3)	190(1)	42	7.8
11.30	D	07/21/1997	185	16(3)	1(1)	2(1)	0(1)	3(3)	49(5)	5(5)	4(5)	6.0(5)	61(5)	0.4(3)	621(3)	40	8.2
11.30	E	09/09/1997	185	17(3)	2(3)	1(1)	0(1)	5(3)	44(5)	33(3)	32(3)	1.7(3)	59(5)	0.2(3)	564(3)	36	7.9
10.90	E	07/25/1997	185	15(3)	2(3)	1(1)	0(1)	3(3)	39(5)	40(1)	34(1)	4.7(3)	54(3)	2.3(1)	363(3)	28	7.5
10.90	E	09/09/1997	185	14(3)	0(1)	2(1)	0(1)	3(3)	47(5)	28(3)	24(3)	7.0(5)	60(5)	0.0(5)	278(3)	38	7.5
6.00	D	07/23/1997	192	18(3)	2(3)	2(1)	0(1)	4(3)	25(3)	32(3)	31(3)	0.3(1)	50(3)	0.0(5)	1102(5)	34	7.9
6.00	E	09/09/1997	192	14(3)	1(1)	2(1)	0(1)	3(3)	39(5)	27(3)	26(3)	0.2(1)	53(3)	0.0(5)	963(5)	34	7.2
5.50	E	07/23/1997	210	17(3)	3(3)	3(3)	0(1)	3(3)	55(5)	12(5)	9(5)	5.7(5)	66(5)	0.0(5)	635(3)	46	8.7
5.50	E	09/06/1997	210	19(3)	2(3)	3(3)	0(1)	4(3)	52(5)	25(3)	25(3)	8.9(5)	65(5)	3.6(1)	210(3)	38	7.9
3.00	E	07/23/1997	212	13(3)	2(3)	3(3)	0(1)	2(1)	59(5)	5(5)	5(5)	19.5(5)	71(5)	0.6(3)	310(3)	42	7.8
3.00	E	09/10/1997	212	13(3)	2(3)	2(1)	0(1)	2(1)	42(5)	16(5)	15(5)	8.3(5)	73(5)	1.4(1)	935(5)	40	8.6
W. Br. Black River - (20020)																	
Year: 1997																	
1.20	E	07/24/1997	174	9(1)	0(1)	1(1)	0(1)	1(1)	9(1)	21(3)	20(3)	0.6(1)	78(5)	0.0(5)	554(3)	26	6.3
1.20	E	09/03/1997	174	14(3)	0(1)	1(1)	0(1)	2(1)	32(3)	18(5)	16(5)	0.7(1)	80(5)	0.0(5)	696(3)	34	7.1

na - Qualitative data, Modified Iwb not applicable.

♦ - IBI is low end adjusted.

* - < 200 Total individuals in sample

** - < 50 Total individuals in sample

● - One or more species excluded from IBI calculation.

Appendix Table 6. IBI scores, metrics, and fish community data for sites sampled in the Black River basin, 1997.

River Mile	Type	Date	Drainage area (sq mi)	Number of						Percent of Individuals					Rel.No. minus tolerants /(0.3km)	IBI	
				Total species	Minnow species	Headwater species	Sensitive species	Darter & Sculpin species	Simple Lithophils	Tolerant fishes	Omni- vores	Pioneering fishes	Insect- ivores	DELT anomalies			
<i>E Fk E Br Black R. - (20-014)</i>																	
Year: 1997																	
2.70	E	07/25/1997	13.1	11(3)	5(3)	3(3)	1(1)	4(3)	3(1)	40(3)	3(5)	19(5)	30(3)	0.0(5)	365(3)	38	
2.70	E	09/09/1997	13.1	14(3)	7(5)	4(5)	1(1)	4(3)	4(3)	55(3)	10(5)	23(5)	16(1)	0.2(5)	574(3)	42	
2.10	E	07/31/1997	13.2	18(5)	8(5)	6(5)	1(1)	3(3)	5(3)	34(3)	6(5)	28(5)	29(3)	0.1(5)	1890(5)	48	
0.10	E	07/25/1997	15.2	13(3)	5(3)	2(3)	1(1)	3(3)	4(3)	43(3)	25(3)	42(3)	30(3)	0.0(5)	466(3)	36	
0.10	E	09/09/1997	15.2	15(3)	7(5)	3(3)	2(1)	3(3)	4(3)	26(5)	10(5)	32(3)	42(3)	0.0(5)	738(3)	42	
<i>Willow Creek - (20-018)</i>																	
Year: 1997																	
4.90	E	07/21/1997	11.0	8(3)	3(1)	1(1)	0(1)	1(1)	2(1)	93(1)	10(5)	91(1)	28(3)	0.0(5)	20(1)	24	
4.90	E	08/27/1997	11.0	6(1)	2(1)	0(1)	0(1)	1(1)	1(1)	94(1)	31(1)	78(1)	12(1)	1.0(3)	22(1)	14	
2.90	E	07/21/1997	12.9	11(3)	5(3)	0(1)	0(1)	1(1)	2(1)	91(1)	65(1)	95(1)	19(1)	0.2(5)	74(1)	20	
2.90	E	08/27/1997	12.9	8(3)	4(3)	0(1)	0(1)	1(1)	2(1)	86(1)	58(1)	86(1)	34(3)	0.0(5)	58(1)	22	
<i>Plum Creek - (20-021)</i>																	
Year: 1997																	
3.30	E	07/29/1997	9.7	8(3)	4(3)	2(3)	1(1)	1(1)	2(1)	96(1)	11(5)	79(1)	34(3)	0.0(5)	18(1)	28	
3.30	E	08/27/1997	9.7	10(3)	7(5)	1(1)	0(1)	0(1)	3(3)	97(1)	19(3)	79(1)	25(3)	1.0(3)	13(1)	26	
2.90	E	07/24/1997	9.8	4(1)	2(1)	1(1)	0(1)	0(1)	2(1)	100(1)	2(5)	93(1)	48(5)	0.0(5)	0(1)	24	
2.90	E	08/27/1997	9.8	8(3)	4(3)	1(1)	0(1)	0(1)	3(3)	96(1)	8(5)	83(1)	47(5)	0.8(5)	10(1)	30	
1.60	E	07/29/1997	10.5	10(3)	6(3)	2(3)	0(1)	1(1)	2(1)	85(1)	6(5)	75(1)	52(5)	0.0(5)	38(1)	30	
1.60	E	09/19/1997	10.5	12(3)	5(3)	2(3)	0(1)	3(3)	4(3)	88(1)	7(5)	71(1)	34(3)	0.0(5)	38(1)	32	
<i>Trib to E. Br. Black - (20-030)</i>																	
Year: 1997																	
1.70	E	10/10/1997	5.6	15(5)	7(5)	4(5)	1(1)	4(5)	5(5)	49(3)	16(3)	50(3)	44(5)	0.0(5)	249(3)	48	
<i>Trib. To E. Br. Blac - (20-031)</i>																	
Year: 1997																	
3.60	E	10/10/1997	3.1	8(3)	5(5)	4(5)	1(1)	1(1)	4(5)	60(1)	7(5)	43(3)	39(5)	0.3(5)	197(3)	42	

♦ - IBI is low end adjusted.

* - < 200 Total individuals in sample

** - < 50 Total individuals in sample

● - One or more species excluded from IBI calculation.

Appendix Table 6. IBI scores, metrics, and fish community data for sites sampled in the Black River basin, 1997.

River Mile	Type	Date	Drainage area (sq mi)	Number of					Percent of Individuals					Rel.No. minus tolerants /(1.0 km)	Modified IBI	lwb	
				Total species	Centrarch. species	Sensitive species	Benthic species	Cyprinid species	Exotics	Tolerant fishes	Omni- vores	Top carnivores	Phyto- phils				DELT anomalies
Black River - (20-001)																	
Year: 1997																	
5.80	O	07/08/1997	425	18(5)	6(3)	4(3)	6(3)	5(5)	15(3)	37(1)	34(3)	14(3)	9.1(1)	6.5(0)	260(1)	31	7.2
5.80	O	08/28/1997	425	17(5)	7(5)	2(1)	3(1)	5(5)	8(5)	18(3)	17(5)	18(3)	29.9(5)	3.3(1)	308(1)	40	8.0
5.50	O	07/08/1997	425	17(5)	5(3)	2(1)	5(3)	5(5)	16(3)	40(1)	37(1)	13(3)	7.6(1)	5.5(0)	182(1) *	27	6.1
5.50	O	08/28/1997	425	16(5)	7(5)	1(1)	2(1)	5(5)	16(3)	28(1)	27(3)	7(1)	24.6(5)	0.0(5)	344(1)	36	6.9
5.20	O	07/10/1997	425	13(3)	5(3)	2(1)	4(3)	3(3)	13(3)	24(1)	23(3)	8(1)	21.5(5)	3.9(1)	156(1) *	28	6.2
5.20	O	08/28/1997	425	16(5)	6(3)	3(3)	5(3)	4(3)	7(5)	22(3)	19(5)	12(3)	28.0(5)	0.0(5)	428(1)	44	7.4
4.80	O	07/29/1997	464	15(3)	6(3)	0(0)	1(1)	6(5)	20(1)	42(1)	25(3)	5(1)	40.6(5)	6.4(0)	128(1) *	24	6.3
4.80	O	09/11/1997	464	13(3)	5(3)	1(1)	3(1)	5(5)	24(1)	32(1)	25(3)	7(1)	30.8(5)	7.6(0)	206(1)	25	5.9
3.70	O	07/29/1997	464	12(3)	6(3)	2(1)	2(1)	3(3)	9(5)	40(1)	16(3)	16(3)	55.8(5)	1.0(3)	200(1)	32	6.6
3.70	O	09/24/1997	464	14(3)	7(5)	2(1)	3(1)	4(3)	2(5)	39(1)	38(1)	6(1)	32.2(5)	1.5(3)	746(3)	32	8.2
3.10	O	07/30/1997	10000	17(5)	6(3)	3(3)	4(3)	5(5)	8(5)	37(1)	25(3)	8(1)	53.3(5)	0.4(5)	470(3)	42	7.1
3.10	O	09/24/1997	10000	18(5)	7(5)	1(1)	4(3)	4(3)	9(5)	57(1)	38(1)	12(1)	26.6(5)	4.2(1)	338(1)	32	7.6
2.30	O	07/30/1997	465	16(5)	9(5)	2(1)	2(1)	4(3)	17(3)	34(1)	24(3)	6(1)	53.5(5)	1.4(3)	626(3)	34	6.6
2.30	O	09/26/1997	465	19(5)	8(5)	2(1)	6(3)	4(3)	17(3)	32(1)	21(3)	7(1)	46.8(5)	5.0(1)	728(3)	34	7.8
0.90	O	08/04/1997	466	18(5)	6(3)	4(3)	4(3)	5(5)	4(5)	24(1)	11(5)	15(3)	54.5(5)	0.7(3)	866(3)	44	8.4
0.90	O	10/03/1997	466	17(5)	6(3)	4(3)	5(3)	5(5)	3(5)	27(1)	7(5)	23(5)	63.4(5)	2.3(3)	714(3)	46	8.5
0.10	O	08/04/1997	466	5(1)	2(1)	0(0)	0(0)	1(1)	0(5)	0(5)	0(5)	3(1)	1.3(1)	0.0(5)	761(3)	28	6.3
0.10	O	10/03/1997	466	6(1)	1(1)	0(0)	0(0)	2(1)	0(5)	5(5)	3(0)	48(1)	5.7(1)	2.5(3)	105(1)	19	6.2

Species List

River Code: 20-001	Stream: Black River	Sample Date: 07/22/1997
River Mile: 15.00	Location:	Invalid Sample:
Time Fished: 2820 sec	Drainage: 396.0 sq mi	Depth: 40 cm
Dist Fished: 0.20 km	Basin: Black River	Data Source: 01
		Flow: C
		Sampler Type: D

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M	4	6.00	0.63	0.24	1.03	40.00
Shorthead Redhorse	R	I	S M	1	1.50	0.16	0.11	0.49	76.00
Northern Hog Sucker	R	I	S M	23	34.50	3.61	5.63	24.14	163.04
Common Carp	G	O	M T	8	12.00	1.26	10.45	44.85	870.83
Golden Shiner	N	I	M T	1	1.50	0.16	0.01	0.03	4.00
River Chub	N	I	N I	1	1.50	0.16	0.06	0.26	40.00
Striped Shiner	N	I	S	59	88.50	9.26	1.26	5.42	14.29
Spotfin Shiner	N	I	M	57	85.50	8.95	0.19	0.82	2.25
Sand Shiner	N	I	M M	14	21.00	2.20	0.03	0.14	1.54
Bluntnose Minnow	N	O	C T	152	228.00	23.86	0.46	1.96	2.00
Central Stoneroller	N	H	N	12	18.00	1.88	0.21	0.91	11.73
Yellow Bullhead		I	C T	2	3.00	0.31	0.21	0.90	70.00
Rock Bass	S	C	C	8	12.00	1.26	1.20	5.15	100.00
Smallmouth Bass	F	C	C M	9	13.50	1.41	1.05	4.51	77.78
Bluegill Sunfish	S	I	C P	10	15.00	1.57	0.36	1.55	24.00
Logperch	D	I	S M	30	45.00	4.71	0.43	1.85	9.56
Johnny Darter	D	I	C	1	1.50	0.16	0.00	0.01	1.00
Greenside Darter	D	I	S M	238	357.00	37.36	1.36	5.82	3.80
Rainbow Darter	D	I	S M	6	9.00	0.94	0.02	0.08	2.00
Mottled Sculpin		I	C	1	1.50	0.16	0.02	0.10	16.00
<i>Date Total</i>				637	955.50		23.30		
<i>Number of Species</i>				20					
<i>Number of Hybrids</i>				0					

Species List

River Code: 20-001	Stream: Black River	Sample Date: 09/03/1997
River Mile: 15.00	Location:	Invalid Sample:
Time Fished: 2520 sec	Drainage: 396.0 sq mi	Depth: 65 cm
Dist Fished: 0.20 km	Basin: Black River	Flow: C
		Data Source: 01
		Sampler Type: D

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M	32	48.00	6.72	2.39	14.67	49.74
Golden Redhorse	R	I	S M	2	3.00	0.42	0.10	0.63	34.00
Northern Hog Sucker	R	I	S M	14	21.00	2.94	3.08	18.90	146.43
Common Carp	G	O	M T	2	3.00	0.42	4.49	27.57	1,495.00
Striped Shiner	N	I	S	44	66.00	9.24	0.98	6.04	14.88
Spotfin Shiner	N	I	M	68	102.00	14.29	0.26	1.60	2.56
Sand Shiner	N	I	M M	32	48.00	6.72	0.08	0.52	1.75
Bluntnose Minnow	N	O	C T	142	213.00	29.83	0.45	2.75	2.10
Central Stoneroller	N	H	N	5	7.50	1.05	0.12	0.76	16.40
Yellow Bullhead		I	C T	3	4.50	0.63	0.77	4.70	170.00
White Crappie	S	I	C	2	3.00	0.42	0.19	1.14	62.00
Rock Bass	S	C	C	5	7.50	1.05	0.83	5.07	110.00
Smallmouth Bass	F	C	C M	5	7.50	1.05	0.50	3.04	66.00
Bluegill Sunfish	S	I	C P	10	15.00	2.10	0.19	1.14	12.40
Pumpkinseed Sunfish	S	I	C P	3	4.50	0.63	0.18	1.12	40.67
Logperch	D	I	S M	11	16.50	2.31	0.19	1.17	11.50
Greenside Darter	D	I	S M	87	130.50	18.28	0.54	3.33	4.15
Rainbow Darter	D	I	S M	6	9.00	1.26	0.02	0.13	2.33
Fantail Darter	D	I	C	1	1.50	0.21	0.00	0.01	1.00
Freshwater Drum			M P	1	1.50	0.21	0.89	5.44	590.00
Mottled Sculpin		I	C	1	1.50	0.21	0.04	0.26	28.00
<i>Date Total</i>				476	714.00		16.27		
<i>Number of Species</i>				21					
<i>Number of Hybrids</i>				0					

Species List

River Code: 20-001	Stream: Black River	Sample Date: 07/23/1997
River Mile: 11.90	Location:	Invalid Sample:
Time Fished: 2880 sec	Drainage: 398.0 sq mi	Depth: 45 cm
Dist Fished: 0.20 km	Basin: Black River	Flow: C
		Data Source: 01
		Sampler Type: D

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Quillback	C	O	M	1	1.50	0.27	0.01	0.04	3.00
Shorthead Redhorse	R	I	S M	1	1.50	0.27	0.33	2.52	220.00
Northern Hog Sucker	R	I	S M	15	22.50	4.12	2.01	15.34	89.33
White Sucker	W	O	S T	1	1.50	0.27	0.47	3.55	310.00
Common Carp	G	O	M T	2	3.00	0.55	4.13	31.48	1,375.00
Striped Shiner	N	I	S	82	123.00	22.53	1.52	11.59	12.35
Spotfin Shiner	N	I	M	79	118.50	21.70	0.32	2.43	2.69
Sand Shiner	N	I	M M	27	40.50	7.42	0.10	0.73	2.37
Bluntnose Minnow	N	O	C T	81	121.50	22.25	0.31	2.39	2.58
Central Stoneroller	N	H	N	19	28.50	5.22	0.11	0.85	3.89
Rock Bass	S	C	C	7	10.50	1.92	0.24	1.82	22.71
Smallmouth Bass	F	C	C M	19	28.50	5.22	3.40	25.98	119.44
Johnny Darter	D	I	C	1	1.50	0.27	0.01	0.05	4.00
Greenside Darter	D	I	S M	28	42.00	7.69	0.16	1.18	3.69
Rainbow Darter	D	I	S M	1	1.50	0.27	0.01	0.06	5.00
<i>Date Total</i>				364	546.00		13.10		
<i>Number of Species</i>				15					
<i>Number of Hybrids</i>				0					

Species List

River Code: 20-001	Stream: Black River	Sample Date: 09/03/1997
River Mile: 11.90	Location:	Invalid Sample:
Time Fished: 2100 sec	Drainage: 398.0 sq mi	Depth: 55 cm
Dist Fished: 0.20 km	Basin: Black River	Flow: C
		Data Source: 01
		Sampler Type: D

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M	4	6.00	0.55	0.37	2.61	61.00
Quillback	C	O	M	2	3.00	0.28	0.05	0.36	17.00
Golden Redhorse	R	I	S M	1	1.50	0.14	0.01	0.06	5.00
Northern Hog Sucker	R	I	S M	11	16.50	1.52	1.32	9.40	79.82
White Sucker	W	O	S T	3	4.50	0.41	0.05	0.38	11.67
Common Carp	G	O	M T	2	3.00	0.28	3.75	26.76	1,250.00
Striped Shiner	N	I	S	80	120.00	11.05	0.73	5.23	6.11
Spotfin Shiner	N	I	M	37	55.50	5.11	0.15	1.04	2.64
Sand Shiner	N	I	M M	41	61.50	5.66	0.11	0.81	1.85
Bluntnose Minnow	N	O	C T	416	624.00	57.46	1.72	12.27	2.76
Central Stoneroller	N	H	N	4	6.00	0.55	0.04	0.31	7.25
Yellow Bullhead		I	C T	8	12.00	1.10	1.32	9.42	110.00
Rock Bass	S	C	C	15	22.50	2.07	2.14	15.26	95.03
Smallmouth Bass	F	C	C M	12	18.00	1.66	1.88	13.38	104.17
Bluegill Sunfish	S	I	C P	1	1.50	0.14	0.01	0.06	5.00
Logperch	D	I	S M	2	3.00	0.28	0.05	0.39	18.00
Johnny Darter	D	I	C	8	12.00	1.10	0.01	0.09	1.00
Greenside Darter	D	I	S M	76	114.00	10.50	0.31	2.18	2.68
Rainbow Darter	D	I	S M	1	1.50	0.14	0.00	0.01	1.00
<i>Date Total</i>				724	1,086.00		14.01		
<i>Number of Species</i>				19					
<i>Number of Hybrids</i>				0					

Species List

River Code: 20-001	Stream: Black River	Sample Date: 07/22/1997
River Mile: 10.60	Location:	Invalid Sample:
Time Fished:	Drainage: 401.0 sq mi	Depth: 45 cm
Dist Fished: 0.05 km	Basin: Black River	Data Source: 01
		Flow: C
		Sampler Type: D

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Shorthead Redhorse	R	I	S	M	1	6.00	1.33	0.20	1.11	34.00
Northern Hog Sucker	R	I	S	M	2	12.00	2.67	1.41	7.69	117.50
White Sucker	W	O	S	T	7	42.00	9.33	1.23	6.71	29.29
Common Carp	G	O	M	T	1	6.00	1.33	8.70	47.46	1,450.00
Striped Shiner	N	I	S		30	180.00	40.00	1.71	9.31	9.48
Spotfin Shiner	N	I	M		4	24.00	5.33	0.13	0.69	5.25
Bluntnose Minnow	N	O	C	T	5	30.00	6.67	0.13	0.69	4.20
Central Stoneroller	N	H	N		4	24.00	5.33	0.19	1.05	8.00
Yellow Bullhead		I	C	T	2	12.00	2.67	2.77	15.12	231.00
Smallmouth Bass	F	C	C	M	3	18.00	4.00	1.37	7.46	76.00
Logperch	D	I	S	M	1	6.00	1.33	0.10	0.52	16.00
Greenside Darter	D	I	S	M	14	84.00	18.67	0.40	2.16	4.71
Rainbow Darter	D	I	S	M	1	6.00	1.33	0.01	0.03	1.00
<i>Date Total</i>					75	450.00		18.33		
<i>Number of Species</i>					13					
<i>Number of Hybrids</i>					0					

Species List

River Code: 20-001	Stream: Black River	Sample Date: 09/10/1997
River Mile: 10.60	Location:	Invalid Sample:
Time Fished: 1500 sec	Drainage: 401.0 sq mi	Depth: 70 cm
Dist Fished: 0.05 km	Basin: Black River	Data Source: 01
		Flow: C
		Sampler Type: D

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Northern Hog Sucker	R	I	S	M	15	90.00	28.30	8.10	77.94	90.00
Striped Shiner	N	I	S		11	66.00	20.75	0.35	3.35	5.27
Spotfin Shiner	N	I	M		3	18.00	5.66	0.02	0.23	1.33
Bluntnose Minnow	N	O	C	T	1	6.00	1.89	0.02	0.17	3.00
Smallmouth Bass	F	C	C	M	2	12.00	3.77	0.37	3.52	30.50
Bluegill Sunfish	S	I	C	P	13	78.00	24.53	0.84	8.08	10.77
Pumpkinseed Sunfish	S	I	C	P	4	24.00	7.55	0.55	5.31	23.00
Logperch	D	I	S	M	2	12.00	3.77	0.13	1.27	11.00
Greenside Darter	D	I	S	M	2	12.00	3.77	0.01	0.12	1.00
<i>Date Total</i>					53	318.00		10.39		
<i>Number of Species</i>					9					
<i>Number of Hybrids</i>					0					

Species List

River Code: 20-001	Stream: Black River	Sample Date: 07/22/1997
River Mile: 10.30	Location:	Invalid Sample:
Time Fished: 2520 sec	Drainage: 401.0 sq mi	Depth: 50 cm
Dist Fished: 0.20 km	Basin: Black River	Data Source: 01
		Flow: C
		Sampler Type: D

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Golden Redhorse	R	I	S	M	1	1.50	0.79	0.03	0.16	18.00
Shorthead Redhorse	R	I	S	M	2	3.00	1.57	0.10	0.60	34.00
Northern Hog Sucker	R	I	S	M	2	3.00	1.57	0.51	3.01	170.00
White Sucker	W	O	S	T	10	15.00	7.87	0.27	1.59	18.00
Common Carp	G	O	M	T	6	9.00	4.72	12.19	71.88	1,354.17
Creek Chub	N	G	N	T	1	1.50	0.79	0.00	0.01	1.00
Striped Shiner	N	I	S		31	46.50	24.41	0.59	3.49	12.74
Spotfin Shiner	N	I	M		6	9.00	4.72	0.04	0.25	4.67
Sand Shiner	N	I	M	M	1	1.50	0.79	0.00	0.02	2.00
Central Stoneroller	N	H	N		5	7.50	3.94	0.10	0.56	12.67
Rock Bass	S	C	C		10	15.00	7.87	0.47	2.76	31.20
Smallmouth Bass	F	C	C	M	7	10.50	5.51	2.40	14.15	228.57
Bluegill Sunfish	S	I	C	P	4	6.00	3.15	0.03	0.18	5.00
Logperch	D	I	S	M	4	6.00	3.15	0.08	0.48	13.50
Johnny Darter	D	I	C		2	3.00	1.57	0.01	0.04	2.00
Greenside Darter	D	I	S	M	34	51.00	26.77	0.14	0.81	2.71
Rainbow Darter	D	I	S	M	1	1.50	0.79	0.00	0.02	2.00
<i>Date Total</i>					127	190.50		16.96		
<i>Number of Species</i>					17					
<i>Number of Hybrids</i>					0					

Species List

River Code: 20-001	Stream: Black River	Sample Date: 09/10/1997
River Mile: 10.30	Location:	Invalid Sample:
Time Fished: 1500 sec	Drainage: 401.0 sq mi	Depth: 70 cm
Dist Fished: 0.20 km	Basin: Black River	Data Source: 01
		Flow: C
		Sampler Type: D

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Northern Hog Sucker	R	I	S	M	4	6.00	2.14	0.94	21.56	156.25
Creek Chub	N	G	N	T	1	1.50	0.53	0.02	0.34	10.00
Striped Shiner	N	I	S		15	22.50	8.02	0.08	1.72	3.33
Spotfin Shiner	N	I	M		21	31.50	11.23	0.09	1.95	2.70
Sand Shiner	N	I	M	M	4	6.00	2.14	0.01	0.32	2.25
Bluntnose Minnow	N	O	C	T	82	123.00	43.85	0.30	6.94	2.45
Central Stoneroller	N	H	N		9	13.50	4.81	0.21	4.90	15.78
Yellow Bullhead		I	C	T	1	1.50	0.53	0.14	3.29	95.00
Rock Bass	S	C	C		8	12.00	4.28	0.55	12.74	46.13
Smallmouth Bass	F	C	C	M	7	10.50	3.74	1.78	40.80	169.00
Bluegill Sunfish	S	I	C	P	4	6.00	2.14	0.07	1.70	12.25
Logperch	D	I	S	M	3	4.50	1.60	0.05	1.22	11.67
Greenside Darter	D	I	S	M	27	40.50	14.44	0.11	2.53	2.71
Rainbow Darter	D	I	S	M	1	1.50	0.53	0.00	0.07	2.00
<i>Date Total</i>					187	280.50		4.35		
<i>Number of Species</i>					14					
<i>Number of Hybrids</i>					0					

Species List

River Code: 20-001	Stream: Black River	Sample Date: 07/22/1997
River Mile: 8.50	Location:	Invalid Sample:
Time Fished: 2700 sec	Drainage: 418.0 sq mi	Depth: 40 cm
Dist Fished: 0.20 km	Basin: Black River	Data Source: 01
		Flow: C
		Sampler Type: D

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Shorthead Redhorse	R	I	S	M	2	3.00	0.47	0.56	2.79	185.00
Northern Hog Sucker	R	I	S	M	25	37.50	5.92	2.22	11.19	59.28
White Sucker	W	O	S	T	1	1.50	0.24	0.55	2.76	365.00
Common Carp	G	O	M	T	4	6.00	0.95	10.95	55.14	1,825.00
Emerald Shiner	N	I	M		11	16.50	2.61	0.05	0.27	3.27
Striped Shiner	N	I	S		104	156.00	24.64	1.68	8.47	10.78
Spotfin Shiner	N	I	M		94	141.00	22.27	0.47	2.39	3.36
Sand Shiner	N	I	M	M	26	39.00	6.16	0.11	0.55	2.78
Bluntnose Minnow	N	O	C	T	61	91.50	14.45	0.35	1.78	3.85
Central Stoneroller	N	H	N		28	42.00	6.64	0.46	2.33	11.00
Yellow Bullhead		I	C	T	2	3.00	0.47	0.36	1.81	119.50
Rock Bass	S	C	C		7	10.50	1.66	0.42	2.11	39.86
Smallmouth Bass	F	C	C	M	10	15.00	2.37	1.38	6.95	92.00
Pumpkinseed Sunfish	S	I	C	P	5	7.50	1.18	0.04	0.22	5.80
Greenside Darter	D	I	S	M	42	63.00	9.95	0.25	1.25	3.95
<i>Date Total</i>					422	633.00		19.86		
<i>Number of Species</i>					15					
<i>Number of Hybrids</i>					0					

Species List

River Code: 20-001	Stream: Black River	Sample Date: 09/10/1997
River Mile: 8.50	Location:	Invalid Sample:
Time Fished: 1920 sec	Drainage: 418.0 sq mi	Depth: 75 cm
Dist Fished: 0.20 km	Basin: Black River	Data Source: 01
		Flow: C
		Sampler Type: D

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Northern Hog Sucker	R	I	S	M	5	7.50	4.10	1.20	23.45	160.00
Creek Chub	N	G	N	T	2	3.00	1.64	0.02	0.33	5.50
Striped Shiner	N	I	S		24	36.00	19.67	0.18	3.56	5.04
Spotfin Shiner	N	I	M		2	3.00	1.64	0.01	0.12	2.00
Sand Shiner	N	I	M	M	2	3.00	1.64	0.01	0.12	2.00
Bluntnose Minnow	N	O	C	T	17	25.50	13.93	0.10	1.88	3.75
Central Stoneroller	N	H	N		13	19.50	10.66	0.16	3.05	8.00
Yellow Bullhead		I	C	T	5	7.50	4.10	0.68	13.19	90.00
Rock Bass	S	C	C		3	4.50	2.46	0.41	8.07	91.67
Smallmouth Bass	F	C	C	M	5	7.50	4.10	1.54	30.01	204.80
Bluegill Sunfish	S	I	C	P	6	9.00	4.92	0.04	0.70	4.00
Pumpkinseed Sunfish	S	I	C	P	16	24.00	13.11	0.09	1.76	3.73
Greenside Darter	D	I	S	M	21	31.50	17.21	0.07	1.35	2.20
Freshwater Drum			M	P	1	1.50	0.82	0.64	12.47	425.00
<i>Date Total</i>					122	183.00		5.12		
<i>Number of Species</i>					14					
<i>Number of Hybrids</i>					0					

Species List

River Code: 20-001	Stream: Black River	Sample Date: 07/08/1997
River Mile: 5.80	Location: adj. D-2 landfill	Invalid Sample:
Time Fished: 4377 sec	Drainage: 425.0 sq mi	Data Source: 01
Dist Fished: 0.50 km	Basin: Black River	Sampler Type: O
	Depth: 180	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Longnose Gar		P	M	1	2.00	0.76	0.01	0.00	3.00
Gizzard Shad		O	M	2	4.00	1.52	0.85	0.64	212.00
Black Redhorse	R	I	S I	1	2.00	0.76	0.98	0.75	492.00
Shorthead Redhorse	R	I	S M	1	2.00	0.76	0.06	0.04	28.00
White Sucker	W	O	S T	1	2.00	0.76	0.28	0.21	140.00
Common Carp	G	O	M T	18	36.00	13.64	105.86	80.41	2,940.67
Goldfish	G	O	M T	1	2.00	0.76	1.60	1.22	800.00
Emerald Shiner	N	I	M	27	54.00	20.45	0.08	0.06	1.48
Spotfin Shiner	N	I	M	10	20.00	7.58	0.08	0.06	4.20
Mimic Shiner	N	I	M I	1	2.00	0.76	0.00	0.00	2.00
Ghost Shiner	N	I	M	1	2.00	0.76	0.00	0.00	1.00
Bluntnose Minnow	N	O	C T	23	46.00	17.42	0.11	0.09	2.43
Common Carp X Goldfish	G	O	T	1	2.00	0.76	5.40	4.10	2,700.00
Channel Catfish	F		C	2	4.00	1.52	1.80	1.36	449.00
Yellow Bullhead		I	C T	1	2.00	0.76	0.38	0.29	190.00
Rock Bass	S	C	C	11	22.00	8.33	1.23	0.93	55.82
Smallmouth Bass	F	C	C M	5	10.00	3.79	3.34	2.54	334.00
Largemouth Bass	F	C	C	1	2.00	0.76	0.35	0.26	174.00
Green Sunfish	S	I	C T	3	6.00	2.27	0.24	0.18	40.00
Bluegill Sunfish	S	I	C P	6	12.00	4.55	1.12	0.85	93.67
Pumpkinseed Sunfish	S	I	C P	10	20.00	7.58	0.78	0.59	39.00
Freshwater Drum			M P	5	10.00	3.79	7.10	5.39	710.00
<i>Date Total</i>				132	264.00		131.66		
<i>Number of Species</i>				21					
<i>Number of Hybrids</i>				1					

Species List

River Code: 20-001	Stream: Black River	Sample Date: 08/28/1997
River Mile: 5.80	Location: adj. D-2 landfill	Invalid Sample:
Time Fished: 4503 sec	Drainage: 425.0 sq mi	Data Source: 03
Dist Fished: 0.50 km	Basin: Black River	Sampler Type: O
	Depth: 150	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Longnose Gar		P	M	1	2.00	0.65	0.26	0.34	130.00
Silver Redhorse	R	I	S M	1	2.00	0.65	1.94	2.56	970.00
White Sucker	W	O	S T	9	18.00	5.84	3.23	4.25	179.22
Common Carp	G	O	M T	12	24.00	7.79	47.49	62.58	1,978.83
Golden Shiner	N	I	M T	2	4.00	1.30	0.03	0.04	8.00
Emerald Shiner	N	I	M	32	64.00	20.78	0.16	0.21	2.50
Spottail Shiner	N	I	M P	1	2.00	0.65	0.02	0.02	8.00
Spotfin Shiner	N	I	M	8	16.00	5.19	0.04	0.06	2.75
Bluntnose Minnow	N	O	C T	2	4.00	1.30	0.03	0.04	8.00
Common Carp X Goldfish	G	O	T	3	6.00	1.95	2.16	2.85	360.00
White Bass	F	P	M	4	8.00	2.60	0.06	0.08	7.50
White Perch	E		M	1	2.00	0.65	0.06	0.08	32.00
White Crappie	S	I	C	1	2.00	0.65	1.08	1.42	540.00
Rock Bass	S	C	C	9	18.00	5.84	1.75	2.30	97.00
Smallmouth Bass	F	C	C M	9	18.00	5.84	4.94	6.50	274.22
Largemouth Bass	F	C	C	4	8.00	2.60	3.42	4.50	427.00
Bluegill Sunfish	S	I	C P	10	20.00	6.49	0.91	1.20	45.50
Pumpkinseed Sunfish	S	I	C P	37	74.00	24.03	4.00	5.27	54.05
Green Sf X Hybrid				2	4.00	1.30	0.21	0.27	52.00
Yellow Perch			M	2	4.00	1.30	0.17	0.23	43.50
Freshwater Drum			M P	4	8.00	2.60	3.94	5.19	492.50
<i>Date Total</i>				154	308.00		75.90		
<i>Number of Species</i>				19					
<i>Number of Hybrids</i>				2					

Species List

River Code: 20-001	Stream: Black River	Sample Date: 07/08/1997
River Mile: 5.50	Location: upst. French Creek	Invalid Sample:
Time Fished: 4119 sec	Drainage: 425.0 sq mi	Data Source: 01
Dist Fished: 0.50 km	Basin: Black River	Sampler Type: O
	Depth: 130	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Longnose Gar		P	M	1	2.00	1.09	0.00	0.00	1.00
Gizzard Shad		O	M	1	2.00	1.09	0.61	0.72	304.00
Silver Redhorse	R	I	S M	1	2.00	1.09	1.01	1.19	504.00
White Sucker	W	O	S T	1	2.00	1.09	0.45	0.53	224.00
Common Carp	G	O	M T	15	30.00	16.30	75.80	89.25	2,526.67
Emerald Shiner	N	I	M	25	50.00	27.17	0.07	0.08	1.44
Striped Shiner	N	I	S	1	2.00	1.09	0.02	0.02	8.00
Spottail Shiner	N	I	M P	1	2.00	1.09	0.02	0.02	8.00
Spotfin Shiner	N	I	M	4	8.00	4.35	0.02	0.03	3.00
Bluntnose Minnow	N	O	C T	18	36.00	19.57	0.08	0.10	2.33
Yellow Bullhead		I	C T	1	2.00	1.09	0.52	0.61	258.00
Brown Bullhead		I	C T	1	2.00	1.09	1.24	1.46	620.00
Rock Bass	S	C	C	8	16.00	8.70	0.67	0.79	42.00
Smallmouth Bass	F	C	C M	2	4.00	2.17	1.61	1.89	402.00
Largemouth Bass	F	C	C	1	2.00	1.09	0.82	0.97	410.00
Bluegill Sunfish	S	I	C P	2	4.00	2.17	0.19	0.22	46.50
Pumpkinseed Sunfish	S	I	C P	5	10.00	5.43	0.36	0.42	36.00
Freshwater Drum			M P	4	8.00	4.35	1.45	1.71	181.50
<i>Date Total</i>				92	184.00		84.93		
<i>Number of Species</i>				18					
<i>Number of Hybrids</i>				0					

Species List

River Code: 20-001	Stream: Black River	Sample Date: 08/28/1997
River Mile: 5.50	Location: upst. French Creek	Invalid Sample:
Time Fished: 3745 sec	Drainage: 425.0 sq mi	Data Source: 03
Dist Fished: 0.50 km	Basin: Black River	Sampler Type: O
	Depth: 200	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M	3	6.00	1.71	0.03	0.03	5.33
White Sucker	W	O	S T	8	16.00	4.57	3.66	2.86	228.86
Common Carp	G	O	M T	27	54.00	15.43	111.20	86.94	2,059.27
Golden Shiner	N	I	M T	1	2.00	0.57	0.01	0.01	6.00
Emerald Shiner	N	I	M	41	82.00	23.43	0.20	0.15	2.41
Spottail Shiner	N	I	M P	1	2.00	0.57	0.02	0.02	12.00
Spotfin Shiner	N	I	M	12	24.00	6.86	0.07	0.05	2.83
Bluntnose Minnow	N	O	C T	11	22.00	6.29	0.06	0.05	2.82
White Bass	F	P	M	1	2.00	0.57	0.02	0.02	10.00
White Perch	E		M	1	2.00	0.57	0.08	0.06	38.00
White Crappie	S	I	C	3	6.00	1.71	2.13	1.66	354.33
Rock Bass	S	C	C	6	12.00	3.43	0.77	0.61	64.50
Smallmouth Bass	F	C	C M	3	6.00	1.71	0.02	0.02	4.00
Largemouth Bass	F	C	C	2	4.00	1.14	2.52	1.97	630.00
Green Sunfish	S	I	C T	1	2.00	0.57	0.02	0.01	8.00
Bluegill Sunfish	S	I	C P	12	24.00	6.86	0.74	0.58	31.00
Pumpkinseed Sunfish	S	I	C P	40	80.00	22.86	4.30	3.36	53.75
Freshwater Drum			M P	2	4.00	1.14	2.04	1.60	511.00
<i>Date Total</i>				175	350.00		127.90		
<i>Number of Species</i>				18					
<i>Number of Hybrids</i>				0					

Species List

River Code: 20-001	Stream: Black River	Sample Date: 07/10/1997
River Mile: 5.20	Location: upst. French Creek	Invalid Sample:
Time Fished: 3497 sec	Drainage: 425.0 sq mi	Data Source: 01
Dist Fished: 0.50 km	Basin: Black River	Sampler Type: O
	Depth: 130	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M	1	2.00	1.27	0.13	0.17	65.00
Northern Hog Sucker	R	I	S M	1	2.00	1.27	0.50	0.66	250.00
White Sucker	W	O	S T	1	2.00	1.27	1.00	1.33	500.00
Common Carp	G	O	M T	10	20.00	12.66	60.00	79.53	3,000.00
Emerald Shiner	N	I	M	24	48.00	30.38	0.08	0.10	1.58
Spotfin Shiner	N	I	M	3	6.00	3.80	0.04	0.05	6.00
Bluntnose Minnow	N	O	C T	5	10.00	6.33	0.04	0.05	3.60
Common Carp X Goldfish	G	O	T	2	4.00	2.53	6.00	7.95	1,500.00
Brown Bullhead		I	C T	1	2.00	1.27	0.61	0.81	306.00
Rock Bass	S	C	C	1	2.00	1.27	0.02	0.02	9.00
Smallmouth Bass	F	C	C M	3	6.00	3.80	1.66	2.20	276.33
Largemouth Bass	F	C	C	2	4.00	2.53	1.27	1.69	318.50
Bluegill Sunfish	S	I	C P	9	18.00	11.39	0.87	1.15	48.33
Pumpkinseed Sunfish	S	I	C P	15	30.00	18.99	1.72	2.27	57.20
Freshwater Drum			M P	1	2.00	1.27	1.52	2.01	758.00
<i>Date Total</i>				79	158.00		75.44		
<i>Number of Species</i>				14					
<i>Number of Hybrids</i>				1					

Species List

River Code: 20-001	Stream: Black River	Sample Date: 08/28/1997
River Mile: 5.20	Location: upst. French Creek	Invalid Sample:
Time Fished: 4050 sec	Drainage: 425.0 sq mi	Data Source: 03
Dist Fished: 0.50 km	Basin: Black River	Sampler Type: O
	Depth: 150	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Golden Redhorse	R	I	S M	2	4.00	0.93	0.17	0.21	42.50
Shorthead Redhorse	R	I	S M	1	2.00	0.47	0.16	0.20	80.00
White Sucker	W	O	S T	3	6.00	1.40	1.36	1.66	226.67
Spotted Sucker	R	I	S	1	2.00	0.47	0.10	0.12	50.00
Common Carp	G	O	M T	15	30.00	7.01	53.40	65.37	1,780.00
Golden Shiner	N	I	M T	7	14.00	3.27	0.14	0.17	9.71
Emerald Shiner	N	I	M	79	158.00	36.92	0.60	0.73	3.80
Spottail Shiner	N	I	M P	1	2.00	0.47	0.04	0.05	20.00
Bluntnose Minnow	N	O	C T	19	38.00	8.88	0.08	0.10	2.22
Common Carp X Goldfish	G	O	T	3	6.00	1.40	10.20	12.49	1,700.00
White Bass	F	P	M	4	8.00	1.87	0.06	0.07	7.50
White Perch	E		M	1	2.00	0.47	0.01	0.01	4.00
Rock Bass	S	C	C	6	12.00	2.80	0.83	1.02	69.33
Smallmouth Bass	F	C	C M	6	12.00	2.80	0.06	0.07	5.00
Largemouth Bass	F	C	C	9	18.00	4.21	6.96	8.52	386.70
Bluegill Sunfish	S	I	C P	11	22.00	5.14	0.57	0.70	26.00
Pumpkinseed Sunfish	S	I	C P	40	80.00	18.69	3.72	4.55	46.50
Orangespot Sf X Pumpkseed				1	2.00	0.47	0.16	0.20	80.00
Yellow Perch			M	3	6.00	1.40	0.20	0.24	33.33
Freshwater Drum			M P	2	4.00	0.93	2.86	3.50	715.00
<i>Date Total</i>				214	428.00		81.68		
<i>Number of Species</i>				18					
<i>Number of Hybrids</i>				2					

Species List

River Code: 20-001	Stream: Black River	Sample Date: 07/29/1997
River Mile: 4.80	Location: dst. French Creek	Invalid Sample:
Time Fished: 3717 sec	Drainage: 464.0 sq mi	Data Source: 01
Dist Fished: 0.50 km	Basin: Black River	Sampler Type: O
	Depth: 300	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Longnose Gar		P	M	1	2.00	1.56	0.04	0.07	20.00
Bigmouth Buffalo	C	I	M	1	2.00	1.56	4.30	7.56	2,150.00
Common Carp	G	O	M T	11	22.00	17.19	46.31	81.43	2,105.00
Goldfish	G	O	M T	2	4.00	3.13	1.60	2.81	400.00
Golden Shiner	N	I	M T	10	20.00	15.63	0.03	0.05	1.50
Emerald Shiner	N	I	M	13	26.00	20.31	0.05	0.09	2.00
Striped Shiner	N	I	S	1	2.00	1.56	0.02	0.04	10.00
Spotfin Shiner	N	I	M	1	2.00	1.56	0.02	0.03	8.00
Fathead Minnow	N	O	C T	1	2.00	1.56	0.00	0.00	1.00
Bluntnose Minnow	N	O	C T	2	4.00	3.13	0.01	0.02	3.00
White Crappie	S	I	C	2	4.00	3.13	0.68	1.20	170.00
Black Crappie	S	I	C	1	2.00	1.56	0.56	0.98	280.00
Largemouth Bass	F	C	C	2	4.00	3.13	0.63	1.10	157.00
Green Sunfish	S	I	C T	1	2.00	1.56	0.02	0.03	8.00
Bluegill Sunfish	S	I	C P	1	2.00	1.56	0.02	0.04	10.00
Pumpkinseed Sunfish	S	I	C P	12	24.00	18.75	1.34	2.36	55.83
Freshwater Drum			M P	2	4.00	3.13	1.25	2.19	312.00
<i>Date Total</i>				64	128.00		56.87		
<i>Number of Species</i>				17					
<i>Number of Hybrids</i>				0					

Species List

River Code: 20-001	Stream: Black River	Sample Date: 09/11/1997
River Mile: 4.80	Location: dst. French Creek	Invalid Sample:
Time Fished: 4500 sec	Drainage: 464.0 sq mi	Data Source: 03
Dist Fished: 0.50 km	Basin: Black River	Sampler Type: O
	Depth: 150	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M	1	2.00	0.96	0.29	0.27	145.00
White Sucker	W	O	S T	1	2.00	0.96	0.17	0.16	85.00
Spotted Sucker	R	I	S	2	4.00	1.92	0.52	0.48	130.00
Common Carp	G	O	M T	24	48.00	23.08	101.38	93.02	2,112.00
Golden Shiner	N	I	M T	7	14.00	6.73	0.05	0.05	3.57
Emerald Shiner	N	I	M	26	52.00	25.00	0.15	0.14	2.88
Striped Shiner	N	I	S	2	4.00	1.92	0.11	0.10	27.50
Spottail Shiner	N	I	M P	4	8.00	3.85	0.07	0.06	8.75
Bluntnose Minnow	N	O	C T	1	2.00	0.96	0.00	0.00	1.00
White Perch	E		M	1	2.00	0.96	0.05	0.05	25.00
Rock Bass	S	C	C	1	2.00	0.96	0.21	0.19	105.00
Smallmouth Bass	F	C	C M	3	6.00	2.88	1.51	1.38	251.33
Largemouth Bass	F	C	C	3	6.00	2.88	2.52	2.31	419.67
Bluegill Sunfish	S	I	C P	8	16.00	7.69	0.49	0.45	30.63
Pumpkinseed Sunfish	S	I	C P	20	40.00	19.23	1.47	1.35	36.75
<i>Date Total</i>				104	208.00		108.98		
<i>Number of Species</i>				15					
<i>Number of Hybrids</i>				0					

Species List

River Code: 20-001	Stream: Black River	Sample Date: 07/29/1997
River Mile: 3.70	Location: upst. Kobe 002 outfall, dst. island	Invalid Sample:
Time Fished: 2916 sec	Drainage: 466.0 sq mi	Data Source: 01
Dist Fished: 0.50 km	Basin: Black River	Sampler Type: O
	Depth: 100	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M	4	8.00	3.85	1.60	2.93	200.00
Northern Hog Sucker	R	I	S M	1	2.00	0.96	0.12	0.22	60.00
Common Carp	G	O	M T	9	18.00	8.65	42.56	77.85	2,364.44
Golden Shiner	N	I	M T	22	44.00	21.15	0.07	0.13	1.64
Emerald Shiner	N	I	M	5	10.00	4.81	0.04	0.07	4.00
Bluntnose Minnow	N	O	C T	7	14.00	6.73	0.04	0.07	2.86
Rock Bass	S	C	C	1	2.00	0.96	0.06	0.11	30.00
Smallmouth Bass	F	C	C M	11	22.00	10.58	5.28	9.65	239.82
Largemouth Bass	F	C	C	4	8.00	3.85	1.21	2.20	150.67
Green Sunfish	S	I	C T	2	4.00	1.92	0.04	0.07	10.00
Bluegill Sunfish	S	I	C P	3	6.00	2.88	0.40	0.72	66.00
Pumpkinseed Sunfish	S	I	C P	32	64.00	30.77	3.10	5.67	48.44
Freshwater Drum			M P	3	6.00	2.88	0.16	0.29	26.67
<i>Date Total</i>				104	208.00		54.67		
<i>Number of Species</i>				13					
<i>Number of Hybrids</i>				0					

Species List

River Code: 20-001	Stream: Black River	Sample Date: 09/24/1997
River Mile: 3.70	Location: upst. Kobe 002 outfall, dst. island	Invalid Sample:
Time Fished: 2835 sec	Drainage: 466.0 sq mi	Depth:
Dist Fished: 0.50 km	Basin: Black River	Flow: C
		Data Source: 03
		Sampler Type: O

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Alewife	E		M	2	4.00	0.39	0.01	0.08	3.00
Gizzard Shad		O	M	145	290.00	27.99	1.33	8.37	4.57
White Sucker	W	O	S T	3	6.00	0.58	0.14	0.91	24.00
Common Carp	G	O	M T	2	4.00	0.39	4.30	27.13	1,075.00
Golden Shiner	N	I	M T	5	10.00	0.97	0.04	0.25	4.00
Emerald Shiner	N	I	M	11	22.00	2.12	0.07	0.45	3.27
Spottail Shiner	N	I	M P	7	14.00	1.35	0.13	0.81	9.14
Bluntnose Minnow	N	O	C T	135	270.00	26.06	0.46	2.87	1.69
White Bass	F	P	M	3	6.00	0.58	0.06	0.38	10.00
White Perch	E		M	5	10.00	0.97	0.32	2.02	32.00
Rock Bass	S	C	C	4	8.00	0.77	0.57	3.60	71.25
Smallmouth Bass	F	C	C M	8	16.00	1.54	1.87	11.81	117.00
Largemouth Bass	F	C	C	8	16.00	1.54	2.10	13.22	131.00
Bluegill Sunfish	S	I	C P	23	46.00	4.44	0.08	0.48	1.65
Pumpkinseed Sunfish	S	I	C P	151	302.00	29.15	4.06	25.61	13.44
Orangespot Sf X Pumpkseed				1	2.00	0.19	0.06	0.35	28.00
Green Sf X Hybrid				1	2.00	0.19	0.06	0.35	28.00
Yellow Perch			M	3	6.00	0.58	0.20	1.29	34.00
Logperch	D	I	S M	1	2.00	0.19	0.00	0.03	2.00
<i>Date Total</i>				518	1,036.00		15.85		
<i>Number of Species</i>				17					
<i>Number of Hybrids</i>				2					

Species List

River Code: 20-001	Stream: Black River	Sample Date: 07/30/1997
River Mile: 3.10	Location: 0.4 mi. dst. Kobe 002	Invalid Sample:
Time Fished: 4301 sec	Drainage: 467.0 sq mi	Data Source: 01
Dist Fished: 0.50 km	Basin: Black River	Sampler Type: O
	Depth: 100	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M	9	18.00	3.69	1.33	1.30	73.89
Smallmouth Buffalo	C	I	M	1	2.00	0.41	2.80	2.74	1,400.00
Common Carp	G	O	M T	18	36.00	7.38	83.28	81.61	2,313.33
Golden Shiner	N	I	M T	27	54.00	11.07	0.30	0.30	5.63
Emerald Shiner	N	I	M	11	22.00	4.51	0.06	0.05	2.55
Spotfin Shiner	N	I	M	2	4.00	0.82	0.02	0.02	4.00
Mimic Shiner	N	I	M I	2	4.00	0.82	0.01	0.01	2.50
Bluntnose Minnow	N	O	C T	39	78.00	15.98	0.12	0.12	1.55
Common Carp X Goldfish	G	O	T	1	2.00	0.41	2.60	2.55	1,300.00
Channel Catfish	F		C	1	2.00	0.41	0.00	0.00	1.00
Yellow Bullhead		I	C T	1	2.00	0.41	0.22	0.22	112.00
White Bass	F	P	M	2	4.00	0.82	0.34	0.33	85.00
White Perch	E		M	2	4.00	0.82	0.12	0.11	29.00
Smallmouth Bass	F	C	C M	3	6.00	1.23	0.07	0.07	11.33
Largemouth Bass	F	C	C	14	28.00	5.74	4.43	4.34	158.14
Green Sunfish	S	I	C T	1	2.00	0.41	0.02	0.02	12.00
Bluegill Sunfish	S	I	C P	16	32.00	6.56	0.96	0.94	29.94
Pumpkinseed Sunfish	S	I	C P	89	178.00	36.48	5.11	5.01	28.70
Green Sf X Pumpkinseed				1	2.00	0.41	0.12	0.11	58.00
Logperch	D	I	S M	2	4.00	0.82	0.04	0.04	9.00
Freshwater Drum			M P	2	4.00	0.82	0.11	0.11	28.00
<i>Date Total</i>				244	488.00		102.05		
<i>Number of Species</i>				19					
<i>Number of Hybrids</i>				2					

Species List

River Code: 20-001	Stream: Black River	Sample Date: 09/24/1997
River Mile: 3.10	Location: 0.4 mi. dst. Kobe 002	Invalid Sample:
Time Fished: 3597 sec	Drainage: 467.0 sq mi	Data Source: 03
Dist Fished: 0.50 km	Basin: Black River	Sampler Type: O
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M	72	144.00	29.88	0.52	0.49	3.58
Smallmouth Buffalo	C	I	M	1	2.00	0.41	2.70	2.56	1,350.00
White Sucker	W	O	S T	3	6.00	1.24	0.03	0.03	4.67
Common Carp	G	O	M T	14	28.00	5.81	76.54	72.45	2,733.57
Goldfish	G	O	M T	2	4.00	0.83	2.32	2.20	580.00
Golden Shiner	N	I	M T	30	60.00	12.45	0.28	0.26	4.62
Emerald Shiner	N	I	M	15	30.00	6.22	0.09	0.08	2.93
Spottail Shiner	N	I	M P	3	6.00	1.24	0.03	0.03	5.33
Bluntnose Minnow	N	O	C T	45	90.00	18.67	0.17	0.16	1.93
Common Carp X Goldfish	G	O	T	1	2.00	0.41	5.20	4.92	2,600.00
Channel Catfish	F		C	1	2.00	0.41	1.69	1.60	844.00
Yellow Bullhead		I	C T	1	2.00	0.41	0.42	0.40	210.00
White Perch	E		M	6	12.00	2.49	0.03	0.03	2.67
White Crappie	S	I	C	4	8.00	1.66	2.40	2.27	300.00
Black Crappie	S	I	C	1	2.00	0.41	0.10	0.09	50.00
Rock Bass	S	C	C	1	2.00	0.41	0.04	0.03	18.00
Smallmouth Bass	F	C	C M	1	2.00	0.41	0.09	0.08	44.00
Largemouth Bass	F	C	C	18	36.00	7.47	7.44	7.05	206.77
Bluegill Sunfish	S	I	C P	6	12.00	2.49	0.12	0.12	10.33
Pumpkinseed Sunfish	S	I	C P	13	26.00	5.39	5.16	4.88	198.31
Yellow Perch			M	2	4.00	0.83	0.09	0.08	22.00
Freshwater Drum			M P	1	2.00	0.41	0.20	0.19	100.00
<i>Date Total</i>				241	482.00		105.65		
<i>Number of Species</i>				21					
<i>Number of Hybrids</i>				1					

Species List

River Code: 20-001	Stream: Black River	Sample Date: 07/30/1997
River Mile: 2.30	Location: 0.4 mi. dst. turning basin	Invalid Sample:
Time Fished: 5089 sec	Drainage: 467.0 sq mi	Data Source: 01
Dist Fished: 0.50 km	Basin: Black River	Sampler Type: O
	Depth: 400	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M	1	2.00	0.32	0.20	0.05	100.00
Common Carp	G	O	M T	52	104.00	16.56	363.86	94.30	3,498.67
Golden Shiner	N	I	M T	21	42.00	6.69	0.68	0.18	16.10
Emerald Shiner	N	I	M	12	24.00	3.82	0.07	0.02	2.92
Spottail Shiner	N	I	M P	18	36.00	5.73	0.04	0.01	1.18
Bluntnose Minnow	N	O	C T	20	40.00	6.37	0.13	0.03	3.13
Common Carp X Goldfish	G	O	T	2	4.00	0.64	6.02	1.56	1,505.00
White Bass	F	P	M	2	4.00	0.64	0.29	0.08	72.50
White Perch	E		M	1	2.00	0.32	0.08	0.02	40.00
White Crappie	S	I	C	2	4.00	0.64	0.26	0.07	65.00
Black Crappie	S	I	C	3	6.00	0.96	0.94	0.24	156.67
Smallmouth Bass	F	C	C M	2	4.00	0.64	0.36	0.09	90.00
Largemouth Bass	F	C	C	14	28.00	4.46	4.59	1.19	163.93
Green Sunfish	S	I	C T	11	22.00	3.50	0.29	0.07	13.00
Bluegill Sunfish	S	I	C P	17	34.00	5.41	0.67	0.17	19.71
Pumpkinseed Sunfish	S	I	C P	129	258.00	41.08	5.66	1.47	21.95
Green Sf X Bluegill Sf				1	2.00	0.32	0.20	0.05	100.00
Green Sf X Pumpkinseed				1	2.00	0.32	0.16	0.04	80.00
Yellow Perch			M	1	2.00	0.32	0.12	0.03	60.00
Logperch	D	I	S M	3	6.00	0.96	0.08	0.02	14.00
Freshwater Drum			M P	1	2.00	0.32	1.16	0.30	580.00
<i>Date Total</i>				314	628.00		385.86		
<i>Number of Species</i>				18					
<i>Number of Hybrids</i>				3					

Species List

River Code: 20-001	Stream: Black River	Sample Date: 09/26/1997
River Mile: 2.30	Location: 0.4 mi. dst. turning basin	Invalid Sample:
Time Fished: 4303 sec	Drainage: 467.0 sq mi	Data Source: 03
Dist Fished: 0.50 km	Basin: Black River	Depth: 200
		Flow: C
		Sampler Type: O

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M	59	118.00	13.95	0.44	0.16	3.69
Spotted Sucker	R	I	S	2	4.00	0.47	3.40	1.22	850.00
Common Carp	G	O	M T	46	92.00	10.87	233.91	83.61	2,542.50
Goldfish	G	O	M T	9	18.00	2.13	15.98	5.71	887.78
Golden Shiner	N	I	M T	22	44.00	5.20	0.36	0.13	8.09
Emerald Shiner	N	I	M	10	20.00	2.36	0.06	0.02	2.80
Spottail Shiner	N	I	M P	9	18.00	2.13	0.09	0.03	5.00
Bluntnose Minnow	N	O	C T	22	44.00	5.20	0.07	0.03	1.64
Channel Catfish	F		C	2	4.00	0.47	4.31	1.54	1,078.00
Yellow Bullhead		I	C T	1	2.00	0.24	0.39	0.14	195.00
Brown Bullhead		I	C T	5	10.00	1.18	3.49	1.25	348.60
White Bass	F	P	M	2	4.00	0.47	0.03	0.01	7.50
White Perch	E		M	16	32.00	3.78	0.08	0.03	2.63
White Crappie	S	I	C	6	12.00	1.42	0.97	0.35	81.17
Rock Bass	S	C	C	5	10.00	1.18	0.40	0.14	40.00
Smallmouth Bass	F	C	C M	1	2.00	0.24	0.61	0.22	304.00
Largemouth Bass	F	C	C	17	34.00	4.02	8.15	2.91	239.67
Green Sunfish	S	I	C T	12	24.00	2.84	0.41	0.15	17.08
Bluegill Sunfish	S	I	C P	15	30.00	3.55	0.44	0.16	14.80
Pumpkinseed Sunfish	S	I	C P	157	314.00	37.12	5.59	2.00	17.81
Green Sf X Hybrid				2	4.00	0.47	0.45	0.16	111.50
Logperch	D	I	S M	2	4.00	0.47	0.04	0.01	10.00
Freshwater Drum			M P	1	2.00	0.24	0.08	0.03	42.00
<i>Date Total</i>				423	846.00		279.75		
<i>Number of Species</i>				22					
<i>Number of Hybrids</i>				1					

Species List

River Code: 20-001	Stream: Black River	Sample Date: 08/04/1997
River Mile: 0.90	Location: 0.2 mi. dst. RR bridge	Invalid Sample:
Time Fished: 3984 sec	Drainage: 469.0 sq mi	Data Source: 01
Dist Fished: 0.50 km	Basin: Black River	Sampler Type: O
	Depth: 200	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M	24	48.00	5.25	3.24	3.38	67.39
Shorthead Redhorse	R	I	S M	3	6.00	0.66	0.38	0.39	62.67
Common Carp	G	O	M T	12	24.00	2.63	60.52	63.32	2,521.50
Golden Shiner	N	I	M T	50	100.00	10.94	0.62	0.65	6.21
Emerald Shiner	N	I	M	36	72.00	7.88	0.11	0.12	1.59
Spottail Shiner	N	I	M P	4	8.00	0.88	0.02	0.02	2.00
Mimic Shiner	N	I	M I	47	94.00	10.28	0.10	0.10	1.02
Bluntnose Minnow	N	O	C T	32	64.00	7.00	0.24	0.25	3.69
Common Carp X Goldfish	G	O	T	3	6.00	0.66	6.40	6.70	1,066.67
Yellow Bullhead		I	C T	1	2.00	0.22	0.36	0.37	178.00
White Bass	F	P	M	2	4.00	0.44	0.32	0.33	79.50
White Perch	E		M	5	10.00	1.09	0.30	0.31	29.60
Rock Bass	S	C	C	1	2.00	0.22	0.01	0.01	5.00
Smallmouth Bass	F	C	C M	5	10.00	1.09	0.52	0.55	52.20
Largemouth Bass	F	C	C	55	110.00	12.04	10.35	10.83	94.13
Green Sunfish	S	I	C T	5	10.00	1.09	0.52	0.54	52.00
Bluegill Sunfish	S	I	C P	16	32.00	3.50	0.28	0.30	8.88
Pumpkinseed Sunfish	S	I	C P	142	284.00	31.07	6.69	7.00	23.57
Yellow Perch			M	2	4.00	0.44	0.04	0.04	10.00
Logperch	D	I	S M	10	20.00	2.19	0.17	0.18	8.60
Freshwater Drum			M P	2	4.00	0.44	4.40	4.60	1,100.00
<i>Date Total</i>				457	914.00		95.58		
<i>Number of Species</i>				20					
<i>Number of Hybrids</i>				1					

Species List

River Code: 20-001	Stream: Black River	Sample Date: 10/03/1997
River Mile: 0.90	Location: 0.2 mi. dst. RR bridge	Invalid Sample:
Time Fished: 3972 sec	Drainage: 469.0 sq mi	Data Source: 03
Dist Fished: 0.50 km	Basin: Black River	Sampler Type: O
	Depth: 150	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Alewife	E		M	1	2.00	0.26	0.00	0.00	2.00
Gizzard Shad		O	M	28	56.00	7.27	0.19	0.14	3.36
Shorthead Redhorse	R	I	S M	1	2.00	0.26	0.00	0.00	2.00
Common Carp	G	O	M T	11	22.00	2.86	68.80	51.59	3,127.27
Golden Shiner	N	I	M T	58	116.00	15.06	0.79	0.59	6.79
Emerald Shiner	N	I	M	25	50.00	6.49	0.20	0.15	4.00
Spottail Shiner	N	I	M P	4	8.00	1.04	0.06	0.04	7.00
Mimic Shiner	N	I	M I	4	8.00	1.04	0.02	0.01	2.50
Bluntnose Minnow	N	O	C T	13	26.00	3.38	0.09	0.07	3.54
Common Carp X Goldfish	G	O	T	2	4.00	0.52	4.50	3.37	1,125.00
Brown Bullhead		I	C T	5	10.00	1.30	7.45	5.58	744.60
White Bass	F	P	M	4	8.00	1.04	0.09	0.07	11.25
Rock Bass	S	C	C	5	10.00	1.30	0.50	0.38	50.40
Smallmouth Bass	F	C	C M	2	4.00	0.52	0.25	0.19	63.00
Largemouth Bass	F	C	C	71	142.00	18.44	40.78	30.58	287.21
Green Sunfish	S	I	C T	9	18.00	2.34	0.48	0.36	26.67
Bluegill Sunfish	S	I	C P	24	48.00	6.23	1.13	0.85	23.50
Pumpkinseed Sunfish	S	I	C P	115	230.00	29.87	5.62	4.22	24.45
Logperch	D	I	S M	1	2.00	0.26	0.00	0.00	1.00
Freshwater Drum			M P	1	2.00	0.26	2.40	1.80	1,200.00
Round Goby				1	2.00	0.26	0.00	0.00	1.00
<i>Date Total</i>				385	770.00		133.36		
<i>Number of Species</i>				20					
<i>Number of Hybrids</i>				1					

Species List

River Code: 20-001	Stream: Black River	Sample Date: 08/04/1997
River Mile: 0.10	Location: at mouth	Invalid Sample:
Time Fished: 2047 sec	Drainage: 470.0 sq mi	Data Source: 01
Dist Fished: 0.38 km	Basin: Black River	Depth: 760
		Flow: C
		Sampler Type: O

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M	17	44.74	5.56	3.95	40.14	88.24
Emerald Shiner	N	I	M	277	728.95	90.52	1.92	19.57	2.64
White Bass	F	P	M	6	15.79	1.96	1.37	13.91	86.67
Largemouth Bass	F	C	C	4	10.53	1.31	2.32	23.55	220.00
Bluegill Sunfish	S	I	C P	2	5.26	0.65	0.28	2.81	52.50
<i>Date Total</i>				306	805.26		9.83		
<i>Number of Species</i>				5					
<i>Number of Hybrids</i>				0					

Species List

River Code: 20-001	Stream: Black River	Sample Date: 10/03/1997
River Mile: 0.10	Location: at mouth	Invalid Sample:
Time Fished: 1585 sec	Drainage: 470.0 sq mi	Data Source: 03
Dist Fished: 0.38 km	Basin: Black River	Depth: 700
		Flow: C
		Sampler Type: O

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M	293	771.05	87.99	2.95	11.66	3.83
Golden Shiner	N	I	M T	1	2.63	0.30	0.07	0.29	28.00
Emerald Shiner	N	I	M	18	47.37	5.41	0.13	0.52	2.78
Common Carp X Goldfish	G	O	T	1	2.63	0.30	3.29	13.00	1,250.00
White Bass	F	P	M	1	2.63	0.30	0.05	0.21	20.00
Largemouth Bass	F	C	C	18	47.37	5.41	17.04	67.35	359.67
Freshwater Drum			M P	1	2.63	0.30	1.76	6.97	670.00
<i>Date Total</i>				333	876.32		25.30		
<i>Number of Species</i>				6					
<i>Number of Hybrids</i>				1					

Species List

River Code: 20-002	Stream: French Creek	Sample Date: 07/22/1997
River Mile: 6.10	Location: St. Rt. 254	Invalid Sample:
Time Fished: 2760 sec	Drainage: 25.3 sq mi	Data Source: 01
Dist Fished: 0.15 km	Basin: Black River	Depth: 30 cm
		Flow: C
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	7	14.00	5.65			
Golden Shiner	N	I	M	T	2	4.00	1.61			
Creek Chub	N	G	N	T	76	152.00	61.29			
Striped Shiner	N	I	S		1	2.00	0.81			
Bluntnose Minnow	N	O	C	T	3	6.00	2.42			
Central Stoneroller	N	H	N		20	40.00	16.13			
Green Sunfish	S	I	C	T	14	28.00	11.29			
Bluegill Sunfish	S	I	C	P	1	2.00	0.81			
	<i>Date Total</i>				124	248.00				
	<i>Number of Species</i>				8					
	<i>Number of Hybrids</i>				0					

Species List

River Code: 20-002	Stream: French Creek	Sample Date: 08/27/1997
River Mile: 6.10	Location: St. Rt. 254	Invalid Sample:
Time Fished: 2100 sec	Drainage: 25.3 sq mi	Data Source: 01
Dist Fished: 0.18 km	Basin: Black River	Sampler Type: E
	Depth: 40 cm	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	17	28.33	16.35	0.57	10.54	20.24
Common Carp	G	O	M	T	1	1.67	0.96	2.63	48.26	1,575.00
Creek Chub	N	G	N	T	45	75.00	43.27	1.70	31.16	22.60
Striped Shiner	N	I	S		4	6.67	3.85	0.07	1.25	10.25
Spotfin Shiner	N	I	M		3	5.00	2.88	0.02	0.28	3.00
Bluntnose Minnow	N	O	C	T	12	20.00	11.54	0.08	1.40	3.80
Central Stoneroller	N	H	N		11	18.33	10.58	0.17	3.07	9.09
Green Sunfish	S	I	C	T	10	16.67	9.62	0.20	3.68	12.00
Hybrid X Sunfish					1	1.67	0.96	0.02	0.37	12.00
<i>Date Total</i>					104	173.33		5.44		
<i>Number of Species</i>					8					
<i>Number of Hybrids</i>					1					

Species List

River Code: 20-002	Stream: French Creek	Sample Date: 07/22/1997
River Mile: 3.20	Location: upst. St. Rt. 301	Invalid Sample:
Time Fished:	Drainage: 32.2 sq mi	Data Source: 01
Dist Fished: 0.15 km	Basin: Black River	Sampler Type: E
	Depth: 40 cm	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	13	26.00	5.10	0.50	11.42	19.08
Common Carp	G	O	M	T	1	2.00	0.39	0.13	2.95	64.00
Golden Shiner	N	I	M	T	1	2.00	0.39	0.01	0.14	3.00
Creek Chub	N	G	N	T	50	100.00	19.61	2.40	55.27	24.00
Emerald Shiner	N	I	M		6	12.00	2.35	0.03	0.69	2.50
Striped Shiner	N	I	S		11	22.00	4.31	0.21	4.79	9.45
Spotfin Shiner	N	I	M		7	14.00	2.75	0.04	0.83	2.57
Sand Shiner	N	I	M	M	6	12.00	2.35	0.02	0.55	2.00
Silverjaw Minnow	N	I	M		5	10.00	1.96	0.02	0.37	1.60
Bluntnose Minnow	N	O	C	T	63	126.00	24.71	0.24	5.62	1.94
Central Stoneroller	N	H	N		77	154.00	30.20	0.50	11.47	3.23
Green Sunfish	S	I	C	T	15	30.00	5.88	0.26	5.90	8.53
<i>Date Total</i>					255	510.00		4.34		
<i>Number of Species</i>					12					
<i>Number of Hybrids</i>					0					

Species List

River Code: 20-002	Stream: French Creek	Sample Date: 08/26/1997
River Mile: 3.20	Location: upst. St. Rt. 301	Invalid Sample:
Time Fished: 2680 sec	Drainage: 32.2 sq mi	Data Source: 01
Dist Fished: 0.20 km	Basin: Black River	Sampler Type: D
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	56	84.00	19.18	2.44	33.76	29.09
Common Carp	G	O	M	T	1	1.50	0.34	0.14	1.95	94.00
Creek Chub	N	G	N	T	95	142.50	32.53	3.12	43.12	21.91
Striped Shiner	N	I	S		16	24.00	5.48	0.17	2.40	7.25
Spotfin Shiner	N	I	M		8	12.00	2.74	0.04	0.48	2.88
Sand Shiner	N	I	M	M	1	1.50	0.34	0.01	0.07	3.00
Bluntnose Minnow	N	O	C	T	52	78.00	17.81	0.20	2.78	2.58
Central Stoneroller	N	H	N		21	31.50	7.19	0.23	3.18	7.30
Yellow Bullhead		I	C	T	1	1.50	0.34	0.05	0.66	32.00
Green Sunfish	S	I	C	T	34	51.00	11.64	0.65	9.01	12.79
Bluegill Sunfish	S	I	C	P	2	3.00	0.68	0.03	0.37	9.00
Pumpkinseed Sunfish	S	I	C	P	3	4.50	1.03	0.12	1.70	27.33
Hybrid X Sunfish					2	3.00	0.68	0.04	0.54	13.00
<i>Date Total</i>					292	438.00		7.24		
<i>Number of Species</i>					12					
<i>Number of Hybrids</i>					1					

Species List

River Code: 20-002	Stream: French Creek	Sample Date: 07/22/1997
River Mile: 1.00	Location:	Invalid Sample:
Time Fished: 2240 sec	Drainage: 34.5 sq mi	Depth: 40 cm
Dist Fished: 0.20 km	Basin: Black River	Flow: C
		Data Source: 01
		Sampler Type: D

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	9	13.50	4.27	0.98	17.80	72.22
Goldfish	G	O	M	T	1	1.50	0.47	0.08	1.42	52.00
Creek Chub	N	G	N	T	8	12.00	3.79	0.08	1.53	7.00
Emerald Shiner	N	I	M		2	3.00	0.95	0.01	0.16	3.00
Striped Shiner	N	I	S		47	70.50	22.27	0.59	10.79	8.38
Spotfin Shiner	N	I	M		20	30.00	9.48	0.06	1.04	1.90
Bluntnose Minnow	N	O	C	T	14	21.00	6.64	0.06	1.10	2.86
Central Stoneroller	N	H	N		64	96.00	30.33	0.46	8.47	4.83
Yellow Bullhead		I	C	T	2	3.00	0.95	0.11	2.08	38.00
Rock Bass	S	C	C		8	12.00	3.79	0.77	13.97	63.75
Smallmouth Bass	F	C	C	M	7	10.50	3.32	1.74	31.77	165.71
Green Sunfish	S	I	C	T	13	19.50	6.16	0.15	2.68	7.54
Bluegill Sunfish	S	I	C	P	9	13.50	4.27	0.13	2.30	9.33
Pumpkinseed Sunfish	S	I	C	P	1	1.50	0.47	0.04	0.77	28.00
Hybrid X Sunfish					3	4.50	1.42	0.22	3.98	48.33
Johnny Darter	D	I	C		2	3.00	0.95	0.01	0.09	1.50
Rainbow Darter	D	I	S	M	1	1.50	0.47	0.00	0.05	2.00
<i>Date Total</i>					211	316.50		5.48		
<i>Number of Species</i>					16					
<i>Number of Hybrids</i>					1					

Species List

River Code: 20-002	Stream: French Creek	Sample Date: 08/26/1997
River Mile: 1.00	Location:	Invalid Sample:
Time Fished: 1860 sec	Drainage: 34.5 sq mi	Depth: 45 cm
Dist Fished: 0.20 km	Basin: Black River	Flow: C
		Data Source: 01
		Sampler Type: D

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M		15	22.50	5.70	0.10	1.31	4.60
Northern Hog Sucker	R	I	S	M	1	1.50	0.38	0.09	1.17	62.00
White Sucker	W	O	S	T	4	6.00	1.52	0.80	10.10	133.33
Golden Shiner	N	I	M	T	3	4.50	1.14	0.01	0.11	2.00
Creek Chub	N	G	N	T	1	1.50	0.38	0.01	0.18	9.00
Emerald Shiner	N	I	M		59	88.50	22.43	0.22	2.73	2.44
Striped Shiner	N	I	S		34	51.00	12.93	0.56	7.00	10.88
Spotfin Shiner	N	I	M		45	67.50	17.11	0.16	1.97	2.31
Sand Shiner	N	I	M	M	2	3.00	0.76	0.00	0.04	1.00
Bluntnose Minnow	N	O	C	T	58	87.00	22.05	0.20	2.54	2.32
Central Stoneroller	N	H	N		16	24.00	6.08	0.13	1.65	5.47
Rock Bass	S	C	C		8	12.00	3.04	0.93	11.73	77.38
Smallmouth Bass	F	C	C	M	5	7.50	1.90	2.18	27.45	290.00
Bluegill Sunfish	S	I	C	P	7	10.50	2.66	0.11	1.35	10.14
Hybrid X Sunfish					2	3.00	0.76	0.07	0.83	22.00
Greenside Darter	D	I	S	M	1	1.50	0.38	0.00	0.04	2.00
Freshwater Drum			M	P	2	3.00	0.76	2.36	29.82	787.50
<i>Date Total</i>					263	394.50		7.92		
<i>Number of Species</i>					16					
<i>Number of Hybrids</i>					1					

Species List

River Code: 20-003	Stream: Beaver Creek	Sample Date: 07/24/1997
River Mile: 7.00	Location: Middle Ridge Rd.	Invalid Sample:
Time Fished: 1920 sec	Drainage: 24.6 sq mi	Data Source: 01
Dist Fished: 0.15 km	Basin: Black River	Sampler Type: E
	Depth: 20 cm	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Creek Chub	N	G	N	T	50	100.00	19.23			
Striped Shiner	N	I	S		8	16.00	3.08			
Bluntnose Minnow	N	O	C	T	5	10.00	1.92			
Central Stoneroller	N	H	N		127	254.00	48.85			
Black Bullhead		I	C	P	1	2.00	0.38			
Green Sunfish	S	I	C	T	2	4.00	0.77			
Bluegill Sunfish	S	I	C	P	2	4.00	0.77			
Johnny Darter	D	I	C		1	2.00	0.38			
Rainbow Darter	D	I	S	M	64	128.00	24.62			
<i>Date Total</i>					260	520.00				
<i>Number of Species</i>					9					
<i>Number of Hybrids</i>					0					

Species List

River Code: 20-003	Stream: Beaver Creek	Sample Date: 08/27/1997
River Mile: 7.00	Location: Middle Ridge Rd.	Invalid Sample:
Time Fished: 1860 sec	Drainage: 24.6 sq mi	Data Source: 01
Dist Fished: 0.15 km	Basin: Black River	Sampler Type: E
	Depth: 30 cm	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	7	14.00	0.67	0.19	3.14	13.57
Creek Chub	N	G	N	T	44	88.00	4.19	1.02	16.88	11.59
Striped Shiner	N	I	S		15	30.00	1.43	0.25	4.14	8.33
Silverjaw Minnow	N	I	M		3	6.00	0.29	0.02	0.30	3.00
Bluntnose Minnow	N	O	C	T	29	58.00	2.76	0.17	2.81	2.93
Central Stoneroller	N	H	N		919	1,838.00	87.44	3.85	63.73	2.10
White Crappie	S	I	C		1	2.00	0.10	0.05	0.89	27.00
Smallmouth Bass	F	C	C	M	1	2.00	0.10	0.27	4.50	136.00
Green Sunfish	S	I	C	T	3	6.00	0.29	0.08	1.32	13.33
Bluegill Sunfish	S	I	C	P	1	2.00	0.10	0.03	0.53	16.00
Johnny Darter	D	I	C		1	2.00	0.10	0.00	0.03	1.00
Rainbow Darter	D	I	S	M	27	54.00	2.57	0.10	1.72	1.92
<i>Date Total</i>					1,051	2,102.00		6.04		
<i>Number of Species</i>					12					
<i>Number of Hybrids</i>					0					

Species List

River Code: 20-003	Stream: Beaver Creek	Sample Date: 07/24/1997
River Mile: 4.60	Location: W. Martin Ave.	Invalid Sample:
Time Fished: 2520 sec	Drainage: 29.2 sq mi	Data Source: 01
Dist Fished: 0.15 km	Basin: Black River	Sampler Type: E
	Depth: 30 cm	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	6	12.00	1.11	0.19	2.91	15.83
Goldfish	G	O	M	T	1	2.00	0.19	0.05	0.77	25.00
Creek Chub	N	G	N	T	73	146.00	13.52	2.61	39.92	17.86
Striped Shiner	N	I	S		57	114.00	10.56	0.60	9.19	5.26
Spotfin Shiner	N	I	M		1	2.00	0.19	0.00	0.06	2.00
Silverjaw Minnow	N	I	M		6	12.00	1.11	0.03	0.46	2.50
Bluntnose Minnow	N	O	C	T	37	74.00	6.85	0.18	2.79	2.46
Central Stoneroller	N	H	N		266	532.00	49.26	2.17	33.17	4.07
Striped Sh X Stoneroller					1	2.00	0.19	0.01	0.15	5.00
Smallmouth Bass	F	C	C	M	1	2.00	0.19	0.18	2.76	90.00
Green Sunfish	S	I	C	T	6	12.00	1.11	0.09	1.38	7.50
Bluegill Sunfish	S	I	C	P	5	10.00	0.93	0.05	0.83	5.40
Johnny Darter	D	I	C		8	16.00	1.48	0.02	0.28	1.13
Rainbow Darter	D	I	S	M	72	144.00	13.33	0.35	5.33	2.42
<i>Date Total</i>					540	1,080.00		6.53		
<i>Number of Species</i>					13					
<i>Number of Hybrids</i>					1					

Species List

River Code: 20-003	Stream: Beaver Creek	Sample Date: 08/27/1997
River Mile: 4.60	Location: W. Martin Ave.	Invalid Sample:
Time Fished: 1740 sec	Drainage: 29.2 sq mi	Data Source: 01
Dist Fished: 0.15 km	Basin: Black River	Sampler Type: E
	Depth: 30 cm	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	7	14.00	1.36	1.10	12.79	78.86
Creek Chub	N	G	N	T	80	160.00	15.59	2.29	26.48	14.29
Striped Shiner	N	I	S		103	206.00	20.08	1.51	17.43	7.31
Silverjaw Minnow	N	I	M		8	16.00	1.56	0.02	0.19	1.00
Bluntnose Minnow	N	O	C	T	34	68.00	6.63	0.23	2.61	3.30
Central Stoneroller	N	H	N		212	424.00	41.33	2.92	33.85	6.89
Yellow Bullhead		I	C	T	2	4.00	0.39	0.08	0.93	20.00
Green Sunfish	S	I	C	T	14	28.00	2.73	0.31	3.59	11.07
Pumpkinseed Sunfish	S	I	C	P	1	2.00	0.19	0.05	0.60	26.00
Johnny Darter	D	I	C		9	18.00	1.75	0.02	0.21	1.00
Rainbow Darter	D	I	S	M	43	86.00	8.38	0.12	1.33	1.34
<i>Date Total</i>					513	1,026.00		8.63		
<i>Number of Species</i>					11					
<i>Number of Hybrids</i>					0					

Species List

River Code: 20-003	Stream: Beaver Creek	Sample Date: 07/24/1997
River Mile: 2.80	Location: dst. Cooper Forest Park Rd.	Invalid Sample:
Time Fished:	Drainage: 29.7 sq mi	Depth: 25 cm
Dist Fished: 0.17 km	Basin: Black River	Data Source: 01
		Flow: C
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Creek Chub	N	G	N	T	32	56.47	68.09	0.13	53.16	2.23
Striped Shiner	N	I	S		4	7.06	8.51	0.04	14.77	5.00
Bluntnose Minnow	N	O	C	T	5	8.82	10.64	0.01	4.64	1.20
Central Stoneroller	N	H	N		1	1.77	2.13	0.01	5.91	8.00
Green Sunfish	S	I	C	T	5	8.82	10.64	0.05	21.52	5.80
<i>Date Total</i>					47	82.94		0.24		
<i>Number of Species</i>					5					
<i>Number of Hybrids</i>					0					

Species List

River Code: 20-003	Stream: Beaver Creek	Sample Date: 08/27/1997
River Mile: 2.80	Location: dst. Cooper Forest Park Rd.	Invalid Sample:
Time Fished: 2112 sec	Drainage: 29.7 sq mi	Data Source: 01
Dist Fished: 0.19 km	Basin: Black River	Depth: 30 cm
		Flow: C
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	17	26.84	8.33	0.44	19.00	16.42
Creek Chub	N	G	N	T	40	63.16	19.61	0.41	17.66	6.49
Striped Shiner	N	I	S		5	7.90	2.45	0.02	0.95	2.80
Bluntnose Minnow	N	O	C	T	2	3.16	0.98	0.01	0.34	2.50
Central Stoneroller	N	H	N		135	213.16	66.18	1.35	58.25	6.34
Green Sunfish	S	I	C	T	2	3.16	0.98	0.05	2.20	16.00
Bluegill Sunfish	S	I	C	P	2	3.16	0.98	0.04	1.51	11.00
Rainbow Darter	D	I	S	M	1	1.58	0.49	0.00	0.13	2.00
<i>Date Total</i>					204	322.11		2.32		
<i>Number of Species</i>					8					
<i>Number of Hybrids</i>					0					

Species List

River Code: 20-010	Stream: East Branch Black River	Sample Date: 07/25/1997
River Mile: 40.50	Location:	Invalid Sample:
Time Fished: 2100 sec	Drainage: 71.0 sq mi	Depth: 40 cm
Dist Fished: 0.15 km	Basin: Black River	Flow: C
		Data Source: 01
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Golden Redhorse	R	I	S	M	2	4.00	0.52	0.02	0.07	5.50
Northern Hog Sucker	R	I	S	M	11	22.00	2.87	0.40	1.29	18.18
White Sucker	W	O	S	T	7	14.00	1.83	0.75	2.42	53.57
Common Carp	G	O	M	T	7	14.00	1.83	25.60	82.63	1,828.57
Western Blacknose Dace	N	G	S	T	1	2.00	0.26	0.00	0.01	1.00
Creek Chub	N	G	N	T	21	42.00	5.48	0.24	0.77	5.71
Redfin Shiner	N	I	N		3	6.00	0.78	0.01	0.05	2.33
Common Shiner	N	I	S		112	224.00	29.24	0.72	2.32	3.21
Spotfin Shiner	N	I	M		15	30.00	3.92	0.07	0.23	2.33
Sand Shiner	N	I	M	M	59	118.00	15.40	0.20	0.65	1.69
Silverjaw Minnow	N	I	M		5	10.00	1.31	0.02	0.08	2.40
Bluntnose Minnow	N	O	C	T	32	64.00	8.36	0.13	0.43	2.09
Central Stoneroller	N	H	N		19	38.00	4.96	0.03	0.10	0.84
Yellow Bullhead		I	C	T	1	2.00	0.26	0.08	0.26	40.00
Rock Bass	S	C	C		8	16.00	2.09	0.62	2.00	38.75
Smallmouth Bass	F	C	C	M	1	2.00	0.26	0.60	1.94	300.00
Green Sunfish	S	I	C	T	6	12.00	1.57	0.05	0.17	4.50
Bluegill Sunfish	S	I	C	P	48	96.00	12.53	1.23	3.98	12.83
Hybrid X Sunfish					1	2.00	0.26	0.10	0.32	50.00
Blackside Darter	D	I	S		4	8.00	1.04	0.02	0.05	2.00
Johnny Darter	D	I	C		5	10.00	1.31	0.01	0.05	1.40
Greenside Darter	D	I	S	M	11	22.00	2.87	0.04	0.12	1.73
Mottled Sculpin		I	C		4	8.00	1.04	0.02	0.06	2.50
<i>Date Total</i>					383	766.00		30.98		
<i>Number of Species</i>					22					
<i>Number of Hybrids</i>					1					

Species List

River Code: 20-010	Stream: East Branch Black River	Sample Date: 09/09/1997
River Mile: 40.50	Location:	Invalid Sample:
Time Fished: 1920 sec	Drainage: 71.0 sq mi	Depth: 45 cm
Dist Fished: 0.15 km	Basin: Black River	Data Source: 01
		Flow: C
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Golden Redhorse	R	I	S	M	3	6.00	1.20	0.08	1.17	12.67
Northern Hog Sucker	R	I	S	M	7	14.00	2.81	0.53	8.19	37.86
White Sucker	W	O	S	T	3	6.00	1.20	0.45	6.99	75.33
Common Carp	G	O	M	T	1	2.00	0.40	0.73	11.31	366.00
Creek Chub	N	G	N	T	6	12.00	2.41	0.31	4.74	25.60
Redfin Shiner	N	I	N		3	6.00	1.20	0.01	0.19	2.00
Striped Shiner	N	I	S		80	160.00	32.13	1.26	19.41	7.85
Spotfin Shiner	N	I	M		28	56.00	11.24	0.14	2.16	2.50
Sand Shiner	N	I	M	M	32	64.00	12.85	0.10	1.51	1.53
Silverjaw Minnow	N	I	M		10	20.00	4.02	0.04	0.62	2.00
Bluntnose Minnow	N	O	C	T	23	46.00	9.24	0.12	1.85	2.61
Central Stoneroller	N	H	N		11	22.00	4.42	0.07	1.11	3.27
Yellow Bullhead		I	C	T	1	2.00	0.40	0.13	1.98	64.00
White Crappie	S	I	C		1	2.00	0.40	0.18	2.78	90.00
Rock Bass	S	C	C		8	16.00	3.21	1.19	18.33	74.13
Smallmouth Bass	F	C	C	M	2	4.00	0.80	0.49	7.54	122.00
Largemouth Bass	F	C	C		1	2.00	0.40	0.08	1.30	42.00
Green Sunfish	S	I	C	T	3	6.00	1.20	0.03	0.49	5.33
Bluegill Sunfish	S	I	C	P	17	34.00	6.83	0.46	7.05	13.41
Hybrid X Sunfish					2	4.00	0.80	0.06	0.90	14.50
Johnny Darter	D	I	C		1	2.00	0.40	0.00	0.03	1.00
Greenside Darter	D	I	S	M	6	12.00	2.41	0.02	0.34	1.83
<i>Date Total</i>					249	498.00		6.47		
<i>Number of Species</i>					21					
<i>Number of Hybrids</i>					1					

Species List

River Code: 20-010	Stream: East Branch Black River	Sample Date: 07/24/1997
River Mile: 32.50	Location: upst. Lorain/Medina County line	Invalid Sample:
Time Fished: 3900 sec	Drainage: 102.0 sq mi	Depth: 100
Dist Fished: 0.15 km	Basin: Black River	Flow: C
		Data Source: 01
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Golden Redhorse	R	I	S	M	3	6.00	2.13	0.03	0.85	5.67
Northern Hog Sucker	R	I	S	M	8	16.00	5.67	0.18	4.56	11.38
White Sucker	W	O	S	T	12	24.00	8.51	0.73	18.41	30.58
Creek Chub	N	G	N	T	32	64.00	22.70	1.40	35.11	21.88
Redfin Shiner	N	I	N		4	8.00	2.84	0.02	0.50	2.50
Common Shiner	N	I	S		7	14.00	4.96	0.05	1.35	3.86
Spotfin Shiner	N	I	M		3	6.00	2.13	0.03	0.75	5.00
Bluntnose Minnow	N	O	C	T	22	44.00	15.60	0.06	1.60	1.45
Central Stoneroller	N	H	N		10	20.00	7.09	0.15	3.81	7.60
Yellow Bullhead		I	C	T	5	10.00	3.55	0.60	15.05	60.00
Rock Bass	S	C	C		1	2.00	0.71	0.04	1.00	20.00
Smallmouth Bass	F	C	C	M	1	2.00	0.71	0.32	8.02	160.00
Green Sunfish	S	I	C	T	10	20.00	7.09	0.13	3.26	6.50
Bluegill Sunfish	S	I	C	P	13	26.00	9.22	0.16	4.01	6.15
Hybrid X Sunfish					1	2.00	0.71	0.02	0.55	11.00
Blackside Darter	D	I	S		2	4.00	1.42	0.02	0.40	4.00
Greenside Darter	D	I	S	M	7	14.00	4.96	0.03	0.75	2.14
<i>Date Total</i>					141	282.00		3.99		
<i>Number of Species</i>					16					
<i>Number of Hybrids</i>					1					

Species List

River Code: 20-010	Stream: East Branch Black River	Sample Date: 07/24/1997
River Mile: 18.90	Location: Vermont Rd.	Invalid Sample:
Time Fished:	Drainage: 161.0 sq mi	Depth: 50 cm
Dist Fished: 0.18 km	Basin: Black River	Data Source: 01
		Flow: C
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Golden Redhorse	R	I	S	M	4	6.67	3.17	0.71	12.17	105.75
Northern Hog Sucker	R	I	S	M	5	8.33	3.97	0.71	12.23	85.00
Creek Chub	N	G	N	T	4	6.67	3.17	0.04	0.73	6.25
Redfin Shiner	N	I	N		4	6.67	3.17	0.02	0.31	2.75
Common Shiner	N	I	S		5	8.33	3.97	0.07	1.26	8.80
Bluntnose Minnow	N	O	C	T	13	21.67	10.32	0.06	1.04	2.77
Rock Bass	S	C	C		12	20.00	9.52	1.85	31.96	92.56
Smallmouth Bass	F	C	C	M	4	6.67	3.17	1.86	32.07	278.50
Green Sunfish	S	I	C	T	6	10.00	4.76	0.04	0.73	4.17
Bluegill Sunfish	S	I	C	P	16	26.67	12.70	0.18	3.14	6.81
Hybrid X Sunfish					1	1.67	0.79	0.04	0.73	25.00
Blackside Darter	D	I	S		7	11.67	5.56	0.02	0.40	2.00
Johnny Darter	D	I	C		5	8.33	3.97	0.01	0.14	1.00
Greenside Darter	D	I	S	M	26	43.33	20.63	0.13	2.16	2.88
Fantail Darter	D	I	C		6	10.00	4.76	0.02	0.26	1.50
Mottled Sculpin		I	C		8	13.33	6.35	0.04	0.69	3.00
<i>Date Total</i>					126	210.00		5.79		
<i>Number of Species</i>					15					
<i>Number of Hybrids</i>					1					

Species List

River Code: 20-010	Stream: East Branch Black River	Sample Date: 09/09/1997
River Mile: 18.90	Location: Vermont Rd.	Invalid Sample:
Time Fished: 1620 sec	Drainage: 161.0 sq mi	Data Source: 01
Dist Fished: 0.18 km	Basin: Black River	Depth: 50 cm
		Flow: C
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Golden Redhorse	R	I	S	M	1	1.67	0.74	0.19	4.96	115.00
Northern Hog Sucker	R	I	S	M	15	25.00	11.03	0.82	21.18	32.80
White Sucker	W	O	S	T	4	6.67	2.94	0.73	18.78	109.00
Creek Chub	N	G	N	T	10	16.67	7.35	0.08	2.12	4.90
Redfin Shiner	N	I	N		10	16.67	7.35	0.03	0.77	1.80
Striped Shiner	N	I	S		14	23.33	10.29	0.22	5.73	9.50
Sand Shiner	N	I	M	M	9	15.00	6.62	0.03	0.77	2.00
Silverjaw Minnow	N	I	M		6	10.00	4.41	0.02	0.52	2.00
Bluntnose Minnow	N	O	C	T	7	11.67	5.15	0.03	0.77	2.57
Central Stoneroller	N	H	N		1	1.67	0.74	0.01	0.13	3.00
Rock Bass	S	C	C		8	13.33	5.88	0.72	18.65	54.13
Smallmouth Bass	F	C	C	M	2	3.33	1.47	0.67	17.23	200.00
Green Sunfish	S	I	C	T	1	1.67	0.74	0.02	0.59	14.00
Bluegill Sunfish	S	I	C	P	4	6.67	2.94	0.04	1.11	6.50
Hybrid X Sunfish					1	1.67	0.74	0.07	1.81	42.00
Blackside Darter	D	I	S		7	11.67	5.15	0.03	0.85	2.86
Greenside Darter	D	I	S	M	29	48.33	21.32	0.14	3.49	2.79
Fantail Darter	D	I	C		4	6.67	2.94	0.01	0.26	1.50
Mottled Sculpin		I	C		3	5.00	2.21	0.01	0.31	2.33
<i>Date Total</i>					136	226.67		3.87		
<i>Number of Species</i>					18					
<i>Number of Hybrids</i>					1					

Species List

River Code: 20-010	Stream: East Branch Black River	Sample Date: 07/21/1997
River Mile: 11.30	Location: Parsons Rd.	Invalid Sample:
Time Fished: 2100 sec	Drainage: 178.0 sq mi	Data Source: 01
Dist Fished: 0.22 km	Basin: Black River	Depth: 40 cm
		Flow: C
		Sampler Type: D

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Northern Hog Sucker	R	I	S	M	9	12.27	1.88	1.30	14.46	105.56
White Sucker	W	O	S	T	1	1.36	0.21	0.06	0.68	45.00
Creek Chub	N	G	N	T	1	1.36	0.21	0.07	0.83	54.00
Striped Shiner	N	I	S		8	10.91	1.67	0.10	1.14	9.38
Common Shiner	N	I	S		17	23.18	3.54	0.24	2.71	10.47
Spotfin Shiner	N	I	M		18	24.55	3.75	0.16	1.78	6.47
Sand Shiner	N	I	M	M	17	23.18	3.54	0.04	0.45	1.71
Bluntnose Minnow	N	O	C	T	20	27.27	4.17	0.07	0.79	2.60
Central Stoneroller	N	H	N		137	186.82	28.54	1.84	20.59	9.87
Yellow Bullhead		I	C	T	3	4.09	0.63	1.04	11.57	253.33
Rock Bass	S	C	C		15	20.46	3.13	1.57	17.54	76.80
Smallmouth Bass	F	C	C	M	14	19.09	2.92	1.59	17.74	83.21
Greenside Darter	D	I	S	M	185	252.27	38.54	0.75	8.35	2.97
Rainbow Darter	D	I	S	M	15	20.46	3.13	0.05	0.52	2.29
Fantail Darter	D	I	C		11	15.00	2.29	0.04	0.46	2.73
Mottled Sculpin		I	C		9	12.27	1.88	0.04	0.39	2.89
<i>Date Total</i>					480	654.55		8.96		
<i>Number of Species</i>					16					
<i>Number of Hybrids</i>					0					

Species List

River Code: 20-010	Stream: East Branch Black River	Sample Date: 09/09/1997
River Mile: 11.30	Location: Parsons Rd.	Invalid Sample:
Time Fished: 1860 sec	Drainage: 178.0 sq mi	Data Source: 01
Dist Fished: 0.19 km	Basin: Black River	Sampler Type: E
	Depth: 45 cm	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Northern Hog Sucker	R	I	S	M	16	25.26	3.00	1.80	35.71	71.38
Redfin Shiner	N	I	N		2	3.16	0.38	0.01	0.12	2.00
Striped Shiner	N	I	S		8	12.63	1.50	0.07	1.41	5.63
Spotfin Shiner	N	I	M		17	26.84	3.19	0.11	2.20	4.12
Sand Shiner	N	I	M	M	8	12.63	1.50	0.13	2.50	10.00
Bluntnose Minnow	N	O	C	T	173	273.16	32.46	0.43	8.60	1.59
Central Stoneroller	N	H	N		35	55.26	6.57	0.23	4.63	4.23
Yellow Bullhead		I	C	T	2	3.16	0.38	0.40	7.94	127.00
Rock Bass	S	C	C		5	7.90	0.94	0.41	8.20	52.40
Smallmouth Bass	F	C	C	M	4	6.32	0.75	0.30	5.94	47.50
Green Sunfish	S	I	C	T	1	1.58	0.19	0.08	1.53	49.00
Blackside Darter	D	I	S		2	3.16	0.38	0.01	0.16	2.50
Johnny Darter	D	I	C		1	1.58	0.19	0.00	0.04	1.00
Greenside Darter	D	I	S	M	182	287.37	34.15	0.78	15.37	2.70
Rainbow Darter	D	I	S	M	26	41.05	4.88	0.10	1.92	2.35
Fantail Darter	D	I	C		38	60.00	7.13	0.11	2.20	1.86
Mottled Sculpin		I	C		13	20.53	2.44	0.08	1.54	3.80
<i>Date Total</i>					533	841.58		5.05		
<i>Number of Species</i>					17					
<i>Number of Hybrids</i>					0					

Species List

River Code: 20-010	Stream: East Branch Black River	Sample Date: 07/25/1997
River Mile: 10.90	Location:	Invalid Sample:
Time Fished: 2700 sec	Drainage: 178.0 sq mi	Depth: 30 cm
Dist Fished: 0.19 km	Basin: Black River	Data Source: 01
		Flow: C
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Northern Hog Sucker	R	I	S	M	23	36.32	5.99	5.13	30.89	141.25
Striped Shiner	N	I	S		1	1.58	0.26	0.15	0.90	95.00
Spotfin Shiner	N	I	M		22	34.74	5.73	0.12	0.74	3.55
Sand Shiner	N	I	M	M	9	14.21	2.34	0.02	0.10	1.11
Fathead Minnow	N	O	C	T	2	3.16	0.52	0.00	0.02	1.00
Bluntnose Minnow	N	O	C	T	130	205.26	33.85	0.41	2.48	2.00
Central Stoneroller	N	H	N		26	41.05	6.77	0.75	4.52	18.27
Yellow Bullhead		I	C	T	22	34.74	5.73	6.14	36.96	176.67
Rock Bass	S	C	C		3	4.74	0.78	0.36	2.14	75.00
Smallmouth Bass	F	C	C	M	15	23.68	3.91	3.01	18.10	126.93
Bluegill Sunfish	S	I	C	P	1	1.58	0.26	0.04	0.21	22.00
Greenside Darter	D	I	S	M	121	191.05	31.51	0.46	2.78	2.41
Rainbow Darter	D	I	S	M	5	7.90	1.30	0.01	0.08	1.60
Fantail Darter	D	I	C		3	4.74	0.78	0.01	0.04	1.50
Mottled Sculpin		I	C		1	1.58	0.26	0.01	0.05	6.00
<i>Date Total</i>					384	606.32		16.61		
<i>Number of Species</i>					15					
<i>Number of Hybrids</i>					0					

Species List

River Code: 20-010	Stream: East Branch Black River	Sample Date: 09/09/1997
River Mile: 10.90	Location:	Invalid Sample:
Time Fished: 2100 sec	Drainage: 178.0 sq mi	Data Source: 01
Dist Fished: 0.19 km	Basin: Black River	Depth: Flow: C
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Northern Hog Sucker	R	I	S M	9	14.21	3.70	1.46	13.50	102.78
White Sucker	W	O	S T	2	3.16	0.82	0.52	4.81	165.00
Striped Shiner	N	I	S	9	14.21	3.70	0.44	4.03	30.67
Spotfin Shiner	N	I	M	8	12.63	3.29	0.04	0.36	3.13
Sand Shiner	N	I	M M	6	9.47	2.47	0.02	0.16	1.83
Silverjaw Minnow	N	I	M	2	3.16	0.82	0.01	0.07	2.50
Bluntnose Minnow	N	O	C T	56	88.42	23.05	0.19	1.74	2.13
Central Stoneroller	N	H	N	22	34.74	9.05	0.87	8.02	25.00
Yellow Bullhead		I	C T	9	14.21	3.70	3.18	29.37	223.78
Smallmouth Bass	F	C	C M	17	26.84	7.00	3.56	32.85	132.47
Greenside Darter	D	I	S M	87	137.37	35.80	0.44	4.06	3.20
Rainbow Darter	D	I	S M	8	12.63	3.29	0.03	0.26	2.25
Fantail Darter	D	I	C	1	1.58	0.41	0.04	0.33	23.00
Mottled Sculpin		I	C	7	11.05	2.88	0.05	0.43	4.29
<i>Date Total</i>				243	383.68		10.83		
<i>Number of Species</i>				14					
<i>Number of Hybrids</i>				0					

Species List

River Code: 20-010	Stream: East Branch Black River	Sample Date: 07/23/1997
River Mile: 6.00	Location: adj. Robson Rd.	Invalid Sample:
Time Fished: 2520 sec	Drainage: 192.0 sq mi	Data Source: 01
Dist Fished: 0.19 km	Basin: Black River	Depth: 50 cm
		Flow: C
		Sampler Type: D

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Northern Hog Sucker	R	I	S	M	8	12.63	0.78	0.28	3.90	22.00
White Sucker	W	O	S	T	2	3.16	0.19	0.04	0.57	13.00
Creek Chub	N	G	N	T	6	9.47	0.58	0.09	1.19	9.00
Striped Shiner	N	I	S		1	1.58	0.10	0.03	0.45	20.00
Spotfin Shiner	N	I	M		16	25.26	1.55	0.12	1.72	4.88
Sand Shiner	N	I	M	M	211	333.16	20.51	0.79	11.01	2.36
Silverjaw Minnow	N	I	M		8	12.63	0.78	0.06	0.88	5.00
Bluntnose Minnow	N	O	C	T	319	503.68	31.00	1.56	21.90	3.10
Central Stoneroller	N	H	N		189	298.42	18.37	2.38	33.31	7.96
Yellow Bullhead		I	C	T	3	4.74	0.29	0.07	1.02	15.33
Rock Bass	S	C	C		1	1.58	0.10	0.17	2.33	105.00
Smallmouth Bass	F	C	C	M	2	3.16	0.19	0.10	1.33	30.00
Green Sunfish	S	I	C	T	1	1.58	0.10	0.01	0.20	9.00
Johnny Darter	D	I	C		13	20.53	1.26	0.03	0.39	1.38
Greenside Darter	D	I	S	M	236	372.63	22.93	1.34	18.80	3.60
Rainbow Darter	D	I	S	M	7	11.05	0.68	0.02	0.27	1.71
Fantail Darter	D	I	C		1	1.58	0.10	0.01	0.08	4.00
Mottled Sculpin		I	C		5	7.90	0.49	0.04	0.62	5.60
<i>Date Total</i>					1,029	1,624.74		7.13		
<i>Number of Species</i>					18					
<i>Number of Hybrids</i>					0					

Species List

River Code: 20-010	Stream: East Branch Black River	Sample Date: 09/09/1997
River Mile: 6.00	Location: adj. Robson Rd.	Invalid Sample:
Time Fished: 1620 sec	Drainage: 192.0 sq mi	Data Source: 01
Dist Fished: 0.19 km	Basin: Black River	Sampler Type: E
	Depth: 25 cm	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Northern Hog Sucker	R	I	S	M	2	3.16	0.24	0.02	0.38	6.00
White Sucker	W	O	S	T	2	3.16	0.24	0.02	0.32	5.00
Creek Chub	N	G	N	T	8	12.63	0.96	0.10	2.02	8.00
Spotfin Shiner	N	I	M		12	18.95	1.44	0.05	0.94	2.50
Sand Shiner	N	I	M	M	89	140.53	10.65	0.36	7.11	2.53
Silverjaw Minnow	N	I	M		9	14.21	1.08	0.04	0.70	2.44
Bluntnose Minnow	N	O	C	T	215	339.47	25.72	1.04	20.84	3.08
Central Stoneroller	N	H	N		163	257.37	19.50	2.20	43.89	8.54
Smallmouth Bass	F	C	C	M	2	3.16	0.24	0.07	1.32	21.00
Green Sunfish	S	I	C	T	1	1.58	0.12	0.01	0.12	4.00
Johnny Darter	D	I	C		7	11.05	0.84	0.01	0.22	1.00
Greenside Darter	D	I	S	M	316	498.95	37.80	1.08	21.56	2.16
Rainbow Darter	D	I	S	M	3	4.74	0.36	0.01	0.24	2.50
Mottled Sculpin		I	C		7	11.05	0.84	0.02	0.34	1.57
<i>Date Total</i>					836	1,320.00		5.01		
<i>Number of Species</i>					14					
<i>Number of Hybrids</i>					0					

Species List

River Code: 20-010	Stream: East Branch Black River	Sample Date: 07/23/1997
River Mile: 5.50	Location:	Invalid Sample:
Time Fished: 3000 sec	Drainage: 215.0 sq mi	Depth: 25 cm
Dist Fished: 0.19 km	Basin: Black River	Data Source: 01
		Flow: C
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Golden Redhorse	R	I	S	M	1	1.58	0.22	0.50	2.41	316.00
Northern Hog Sucker	R	I	S	M	20	31.58	4.37	5.08	24.59	160.95
White Sucker	W	O	S	T	5	7.90	1.09	1.90	9.17	240.00
Striped Shiner	N	I	S		20	31.58	4.37	0.27	1.28	8.40
Spotfin Shiner	N	I	M		13	20.53	2.84	0.09	0.43	4.31
Sand Shiner	N	I	M	M	18	28.42	3.93	0.06	0.28	2.00
Bluntnose Minnow	N	O	C	T	36	56.84	7.86	0.14	0.66	2.40
Central Stoneroller	N	H	N		90	142.11	19.65	1.50	7.27	10.58
Yellow Bullhead		I	C	T	11	17.37	2.40	2.13	10.32	122.73
Rock Bass	S	C	C		9	14.21	1.97	1.15	5.54	80.56
Smallmouth Bass	F	C	C	M	17	26.84	3.71	6.63	32.09	247.06
Green Sunfish	S	I	C	T	4	6.32	0.87	0.11	0.55	18.00
Bluegill Sunfish	S	I	C	P	1	1.58	0.22	0.01	0.06	8.00
Greenside Darter	D	I	S	M	145	228.95	31.66	0.83	4.00	3.61
Rainbow Darter	D	I	S	M	60	94.74	13.10	0.21	1.00	2.17
Fantail Darter	D	I	C		1	1.58	0.22	0.00	0.01	2.00
Mottled Sculpin		I	C		7	11.05	1.53	0.07	0.34	6.43
<i>Date Total</i>					458	723.16		20.67		
<i>Number of Species</i>					17					
<i>Number of Hybrids</i>					0					

Species List

River Code: 20-010	Stream: East Branch Black River	Sample Date: 09/06/1997
River Mile: 5.50	Location:	Invalid Sample:
Time Fished: 1920 sec	Drainage: 215.0 sq mi	Depth: 50 cm
Dist Fished: 0.18 km	Basin: Black River	Data Source: 01
		Flow: C
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Golden Redhorse	R	I	S	M	5	8.33	2.96	2.90	19.36	348.00
Northern Hog Sucker	R	I	S	M	22	36.67	13.02	6.46	43.12	176.18
White Sucker	W	O	S	T	7	11.67	4.14	2.63	17.52	225.00
Redfin Shiner	N	I	N		1	1.67	0.59	0.00	0.02	2.00
Striped Shiner	N	I	S		7	11.67	4.14	0.16	1.06	13.67
Spotfin Shiner	N	I	M		11	18.33	6.51	0.04	0.27	2.18
Sand Shiner	N	I	M	M	4	6.67	2.37	0.01	0.07	1.50
Bluntnose Minnow	N	O	C	T	35	58.33	20.71	0.10	0.63	1.64
Central Stoneroller	N	H	N		2	3.33	1.18	0.02	0.13	6.00
Yellow Bullhead		I	C	T	1	1.67	0.59	0.39	2.58	232.00
Rock Bass	S	C	C		5	8.33	2.96	0.23	1.56	28.00
Smallmouth Bass	F	C	C	M	9	15.00	5.33	1.55	10.35	103.33
Largemouth Bass	F	C	C		1	1.67	0.59	0.20	1.31	118.00
Bluegill Sunfish	S	I	C	P	1	1.67	0.59	0.02	0.12	11.00
Hybrid X Sunfish					1	1.67	0.59	0.05	0.31	28.00
Johnny Darter	D	I	C		2	3.33	1.18	0.00	0.02	1.00
Greenside Darter	D	I	S	M	36	60.00	21.30	0.12	0.78	1.94
Rainbow Darter	D	I	S	M	11	18.33	6.51	0.03	0.20	1.64
Fantail Darter	D	I	C		2	3.33	1.18	0.01	0.05	2.00
Mottled Sculpin		I	C		6	10.00	3.55	0.08	0.55	8.17
<i>Date Total</i>					169	281.67		14.98		
<i>Number of Species</i>					19					
<i>Number of Hybrids</i>					1					

Species List

River Code: 20-010	Stream: East Branch Black River	Sample Date: 07/23/1997
River Mile: 3.00	Location: Fuller Rd.	Invalid Sample:
Time Fished:	Drainage: 217.0 sq mi	Depth: 25 cm
Dist Fished: 0.15 km	Basin: Black River	Data Source: 01
		Flow: C
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Golden Redhorse	R	I	S	M	2	4.00	1.22	1.19	5.13	298.00
Northern Hog Sucker	R	I	S	M	14	28.00	8.54	2.08	8.98	74.43
White Sucker	W	O	S	T	3	6.00	1.83	0.91	3.91	151.33
Common Carp	G	O	M	T	1	2.00	0.61	4.40	18.95	2,200.00
Striped Shiner	N	I	S		6	12.00	3.66	0.21	0.90	17.33
Spotfin Shiner	N	I	M		6	12.00	3.66	0.08	0.34	6.67
Sand Shiner	N	I	M	M	17	34.00	10.37	0.08	0.33	2.25
Bluntnose Minnow	N	O	C	T	5	10.00	3.05	0.03	0.14	3.20
Central Stoneroller	N	H	N		6	12.00	3.66	0.17	0.72	14.00
Rock Bass	S	C	C		5	10.00	3.05	1.00	4.31	100.00
Smallmouth Bass	F	C	C	M	27	54.00	16.46	12.46	53.68	230.79
Bluegill Sunfish	S	I	C	P	1	2.00	0.61	0.10	0.45	52.00
Greenside Darter	D	I	S	M	68	136.00	41.46	0.49	2.09	3.57
Rainbow Darter	D	I	S	M	3	6.00	1.83	0.02	0.07	2.67
<i>Date Total</i>					164	328.00		23.22		
<i>Number of Species</i>					14					
<i>Number of Hybrids</i>					0					

Species List

River Code: 20-010	Stream: East Branch Black River	Sample Date: 09/10/1997
River Mile: 3.00	Location: Fuller Rd.	Invalid Sample:
Time Fished: 1920 sec	Drainage: 217.0 sq mi	Data Source: 01
Dist Fished: 0.18 km	Basin: Black River	Sampler Type: E
	Depth: 30 cm	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Northern Hog Sucker	R	I	S	M	22	36.67	3.31	3.97	12.64	108.33
White Sucker	W	O	S	T	2	3.33	0.30	0.58	1.85	175.00
Common Carp	G	O	M	T	1	1.67	0.15	4.67	14.85	2,800.00
Striped Shiner	N	I	S		8	13.33	1.20	0.33	1.06	25.00
Spotfin Shiner	N	I	M		24	40.00	3.61	0.40	1.27	10.00
Sand Shiner	N	I	M	M	163	271.67	24.55	0.51	1.63	1.89
Bluntnose Minnow	N	O	C	T	97	161.67	14.61	0.61	1.93	3.75
Central Stoneroller	N	H	N		25	41.67	3.77	0.68	2.17	16.40
Yellow Bullhead		I	C	T	3	5.00	0.45	0.89	2.83	178.00
Rock Bass	S	C	C		10	16.67	1.51	2.17	6.92	130.44
Smallmouth Bass	F	C	C	M	45	75.00	6.78	15.11	48.07	201.45
Bluegill Sunfish	S	I	C	P	14	23.33	2.11	0.46	1.46	19.64
Greenside Darter	D	I	S	M	246	410.00	37.05	1.03	3.27	2.51
Rainbow Darter	D	I	S	M	4	6.67	0.60	0.01	0.04	1.75
<i>Date Total</i>					664	1,106.67		31.43		
<i>Number of Species</i>					14					
<i>Number of Hybrids</i>					0					

Species List

River Code: 20-014	Stream: East Fork East Branch Black River	Sample Date: 07/25/1997
River Mile: 2.70	Location: Lodi City Park	Invalid Sample:
Time Fished: 2280 sec	Drainage: 13.1 sq mi	Data Source: 01
Dist Fished: 0.19 km	Basin: Black River	Depth: Flow: C
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Western Blacknose Dace	N	G	S	T	90	142.11	23.38			
Creek Chub	N	G	N	T	38	60.00	9.87			
Common Shiner	N	I	S		1	1.58	0.26			
Bluntnose Minnow	N	O	C	T	10	15.79	2.60			
Central Stoneroller	N	H	N		127	200.53	32.99			
Green Sunfish	S	I	C	T	16	25.26	4.16			
Bluegill Sunfish	S	I	C	P	14	22.11	3.64			
Hybrid X Sunfish					3	4.74	0.78			
Johnny Darter	D	I	C		10	15.79	2.60			
Greenside Darter	D	I	S	M	6	9.47	1.56			
Fantail Darter	D	I	C		32	50.53	8.31			
Mottled Sculpin		I	C		38	60.00	9.87			
<i>Date Total</i>					385	607.90				
<i>Number of Species</i>					11					
<i>Number of Hybrids</i>					1					

Species List

River Code: 20-014	Stream: East Fork East Branch Black River	Sample Date: 09/09/1997
River Mile: 2.70	Location: Lodi City Park	Invalid Sample:
Time Fished: 1500 sec	Drainage: 13.1 sq mi	Depth: 20 cm
Dist Fished: 0.15 km	Basin: Black River	Flow: C
		Data Source: 01
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Western Blacknose Dace	N	G	S	T	217	434.00	34.34			
Creek Chub	N	G	N	T	62	124.00	9.81			
South. Redbelly Dace	N	H	S		2	4.00	0.32			
Common Shiner	N	I	S		11	22.00	1.74			
Silverjaw Minnow	N	I	M		2	4.00	0.32			
Bluntnose Minnow	N	O	C	T	60	120.00	9.49			
Central Stoneroller	N	H	N		187	374.00	29.59			
Green Sunfish	S	I	C	T	6	12.00	0.95			
Bluegill Sunfish	S	I	C	P	3	6.00	0.47			
Pumpkinseed Sunfish	S	I	C	P	1	2.00	0.16			
Hybrid X Sunfish					2	4.00	0.32			
Johnny Darter	D	I	C		15	30.00	2.37			
Greenside Darter	D	I	S	M	4	8.00	0.63			
Fantail Darter	D	I	C		18	36.00	2.85			
Mottled Sculpin		I	C		42	84.00	6.65			
<i>Date Total</i>					632	1,264.00				
<i>Number of Species</i>					14					
<i>Number of Hybrids</i>					1					

Species List

River Code: 20-014	Stream: East Fork East Branch Black River	Sample Date: 07/31/1997
River Mile: 2.10	Location: dst. St. Rt. 83	Invalid Sample:
Time Fished: 5400 sec	Drainage: 13.2 sq mi	Data Source: 03
Dist Fished: 0.20 km	Basin: Black River	Sampler Type: E
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Central Mudminnow		I	C T	6	9.00	0.32			
White Sucker	W	O	S T	62	93.00	3.26			
Western Blacknose Dace	N	G	S T	62	93.00	3.26			
Creek Chub	N	G	N T	390	585.00	20.54			
South. Redbelly Dace	N	H	S	1	1.50	0.05			
Redside Dace	N	I	S I	52	78.00	2.74			
Common Shiner	N	I	S	230	345.00	12.11			
Silverjaw Minnow	N	I	M	4	6.00	0.21			
Bluntnose Minnow	N	O	C T	50	75.00	2.63			
Central Stoneroller	N	H	N	787	1,180.50	41.44			
Creek Chub X Redside Dace		I		1	1.50	0.05			
Cr Chub X S. Redbelly D				1	1.50	0.05			
Yellow Bullhead		I	C T	2	3.00	0.11			
Largemouth Bass	F	C	C	4	6.00	0.21			
Green Sunfish	S	I	C T	67	100.50	3.53			
Bluegill Sunfish	S	I	C P	79	118.50	4.16			
Johnny Darter	D	I	C	19	28.50	1.00			
Fantail Darter	D	I	C	28	42.00	1.47			
Mottled Sculpin		I	C	51	76.50	2.69			
Brook Stickleback		I	C	3	4.50	0.16			
<i>Date Total</i>				1,899	2,848.50				
<i>Number of Species</i>				18					
<i>Number of Hybrids</i>				2					

Species List

River Code: 20-014	Stream: East Fork East Branch Black River	Sample Date: 07/25/1997
River Mile: 0.10	Location: at Richmond Rd.	Invalid Sample:
Time Fished: 2160 sec	Drainage: 15.2 sq mi	Depth: 30 cm
Dist Fished: 0.15 km	Basin: Black River	Flow: C
		Data Source: 01
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	8	16.00	1.96			
Western Blacknose Dace	N	G	S	T	3	6.00	0.73			
Creek Chub	N	G	N	T	69	138.00	16.87			
Common Shiner	N	I	S		21	42.00	5.13			
Bluntnose Minnow	N	O	C	T	94	188.00	22.98			
Central Stoneroller	N	H	N		111	222.00	27.14			
Black Bullhead		I	C	P	2	4.00	0.49			
Rock Bass	S	C	C		1	2.00	0.24			
Green Sunfish	S	I	C	T	2	4.00	0.49			
Bluegill Sunfish	S	I	C	P	3	6.00	0.73			
Hybrid X Sunfish					1	2.00	0.24			
Johnny Darter	D	I	C		8	16.00	1.96			
Greenside Darter	D	I	S	M	4	8.00	0.98			
Mottled Sculpin		I	C		82	164.00	20.05			
<i>Date Total</i>					409	818.00				
<i>Number of Species</i>					13					
<i>Number of Hybrids</i>					1					

Species List

River Code: 20-014	Stream: East Fork East Branch Black River	Sample Date: 09/09/1997
River Mile: 0.10	Location: at Richmond Rd.	Invalid Sample:
Time Fished: 1800 sec	Drainage: 15.2 sq mi	Depth: 25 cm
Dist Fished: 0.15 km	Basin: Black River	Flow: C
		Data Source: 01
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	6	12.00	1.21			
Western Blacknose Dace	N	G	S	T	1	2.00	0.20			
Creek Chub	N	G	N	T	76	152.00	15.32			
Common Shiner	N	I	S		2	4.00	0.40			
Spotfin Shiner	N	I	M		1	2.00	0.20			
Silverjaw Minnow	N	I	M		10	20.00	2.02			
Bluntnose Minnow	N	O	C	T	43	86.00	8.67			
Central Stoneroller	N	H	N		163	326.00	32.86			
Yellow Bullhead		I	C	T	1	2.00	0.20			
Smallmouth Bass	F	C	C	M	1	2.00	0.20			
Bluegill Sunfish	S	I	C	P	4	8.00	0.81			
Johnny Darter	D	I	C		30	60.00	6.05			
Greenside Darter	D	I	S	M	17	34.00	3.43			
Mottled Sculpin		I	C		140	280.00	28.23			
Brook Stickleback		I	C		1	2.00	0.20			
<i>Date Total</i>					496	992.00				
<i>Number of Species</i>					15					
<i>Number of Hybrids</i>					0					

Species List

River Code: 20-018	Stream: Willow Creek	Sample Date: 07/21/1997
River Mile: 4.90	Location:	Invalid Sample:
Time Fished:	Drainage: 10.7 sq mi	Depth: 20 cm
Dist Fished: 0.15 km	Basin: Black River	Data Source: 01
		Flow: C
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Central Mudminnow		I	C	T	1	2.00	0.68			
White Sucker	W	O	S	T	10	20.00	6.76			
Creek Chub	N	G	N	T	93	186.00	62.84			
Common Shiner	N	I	S		1	2.00	0.68			
Bluntnose Minnow	N	O	C	T	4	8.00	2.70			
Green Sunfish	S	I	C	T	30	60.00	20.27			
Johnny Darter	D	I	C		8	16.00	5.41			
Brook Stickleback		I	C		1	2.00	0.68			
<i>Date Total</i>					148	296.00				
<i>Number of Species</i>					8					
<i>Number of Hybrids</i>					0					

Species List

River Code: 20-018	Stream: Willow Creek	Sample Date: 08/27/1997
River Mile: 4.90	Location:	Invalid Sample:
Time Fished: 1680 sec	Drainage: 10.7 sq mi	Depth: 35 cm
Dist Fished: 0.15 km	Basin: Black River	Flow: C
		Data Source: 01
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	42	84.00	21.32			
Creek Chub	N	G	N	T	112	224.00	56.85			
Bluntnose Minnow	N	O	C	T	19	38.00	9.64			
Green Sunfish	S	I	C	T	13	26.00	6.60			
Bluegill Sunfish	S	I	C	P	1	2.00	0.51			
Johnny Darter	D	I	C		10	20.00	5.08			
<i>Date Total</i>					197	394.00				
<i>Number of Species</i>					6					
<i>Number of Hybrids</i>					0					

Species List

River Code: 20-018	Stream: Willow Creek	Sample Date: 07/21/1997
River Mile: 2.90	Location: Durkee Rd.	Invalid Sample:
Time Fished: 1680 sec	Drainage: 12.8 sq mi	Data Source: 01
Dist Fished: 0.15 km	Basin: Black River	Sampler Type: E
	Depth: 20 cm	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	6	12.00	1.41			
Common Carp	G	O	M	T	1	2.00	0.24			
Creek Chub	N	G	N	T	65	130.00	15.29			
Common Shiner	N	I	S		1	2.00	0.24			
Fathead Minnow	N	O	C	T	1	2.00	0.24			
Bluntnose Minnow	N	O	C	T	266	532.00	62.59			
Central Stoneroller	N	H	N		3	6.00	0.71			
Brown Bullhead		I	C	T	1	2.00	0.24			
Largemouth Bass	F	C	C		1	2.00	0.24			
Green Sunfish	S	I	C	T	48	96.00	11.29			
Pumpkinseed Sunfish	S	I	C	P	7	14.00	1.65			
Hybrid X Sunfish					1	2.00	0.24			
Johnny Darter	D	I	C		24	48.00	5.65			
<i>Date Total</i>					425	850.00				
<i>Number of Species</i>					12					
<i>Number of Hybrids</i>					1					

Species List

River Code: 20-018	Stream: Willow Creek	Sample Date: 08/27/1997
River Mile: 2.90	Location: Durkee Rd.	Invalid Sample:
Time Fished: 1920 sec	Drainage: 12.8 sq mi	Data Source: 01
Dist Fished: 0.17 km	Basin: Black River	Sampler Type: E
	Depth: 25 cm	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	13	22.94	5.56			
Creek Chub	N	G	N	T	10	17.65	4.27			
Striped Shiner	N	I	S		6	10.59	2.56			
Bluntnose Minnow	N	O	C	T	122	215.29	52.14			
Central Stoneroller	N	H	N		2	3.53	0.85			
Green Sunfish	S	I	C	T	56	98.82	23.93			
Pumpkinseed Sunfish	S	I	C	P	5	8.82	2.14			
Hybrid X Sunfish					7	12.35	2.99			
Johnny Darter	D	I	C		13	22.94	5.56			
<i>Date Total</i>					234	412.94				
<i>Number of Species</i>					8					
<i>Number of Hybrids</i>					1					

Species List

River Code: 20-020	Stream: West Branch Black River	Sample Date: 07/24/1997
River Mile: 1.20	Location:	Invalid Sample:
Time Fished: 2160 sec	Drainage: 172.0 sq mi	Depth: 30 cm
Dist Fished: 0.15 km	Basin: Black River	Data Source: 01
		Flow: C
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	2	4.00	0.57	0.14	5.96	36.00
Goldfish	G	O	M	T	33	66.00	9.46	0.29	11.97	4.38
Creek Chub	N	G	N	T	2	4.00	0.57	0.16	6.79	41.00
Striped Shiner	N	I	S		1	2.00	0.29	0.03	1.33	16.00
Spotfin Shiner	N	I	M		5	10.00	1.43	0.07	2.90	7.00
Sand Shiner	N	I	M	M	237	474.00	67.91	1.07	44.43	2.26
Bluntnose Minnow	N	O	C	T	35	70.00	10.03	0.34	14.08	4.86
Central Stoneroller	N	H	N		3	6.00	0.86	0.07	3.06	12.33
Smallmouth Bass	F	C	C	M	2	4.00	0.57	0.12	4.97	30.00
Greenside Darter	D	I	S	M	29	58.00	8.31	0.11	4.55	1.89
<i>Date Total</i>					349	698.00		2.42		
<i>Number of Species</i>					10					
<i>Number of Hybrids</i>					0					

Species List

River Code: 20-020	Stream: West Branch Black River	Sample Date: 09/03/1997
River Mile: 1.20	Location:	Invalid Sample:
Time Fished: 1740 sec	Drainage: 172.0 sq mi	Depth: 25 cm
Dist Fished: 0.15 km	Basin: Black River	Data Source: 01
		Flow: C
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	3	6.00	0.71	0.02	0.64	3.67
Common Carp	G	O	M	T	11	22.00	2.59	0.19	5.55	8.73
Western Blacknose Dace	N	G	S	T	3	6.00	0.71	0.01	0.40	2.33
Creek Chub	N	G	N	T	4	8.00	0.94	0.21	6.07	26.25
Spotfin Shiner	N	I	M		3	6.00	0.71	0.04	1.04	6.00
Bigmouth Shiner [T]	N	I	M		2	4.00	0.47	0.01	0.29	2.50
Sand Shiner	N	I	M	M	199	398.00	46.82	0.98	28.26	2.45
Fathead Minnow	N	O	C	T	1	2.00	0.24	0.33	9.66	167.00
Bluntnose Minnow	N	O	C	T	55	110.00	12.94	0.47	13.65	4.29
Central Stoneroller	N	H	N		4	8.00	0.94	0.08	2.31	10.00
Smallmouth Bass	F	C	C	M	2	4.00	0.47	0.49	14.06	121.50
Largemouth Bass	F	C	C		1	2.00	0.24	0.02	0.69	12.00
Johnny Darter	D	I	C		3	6.00	0.71	0.00	0.12	0.67
Greenside Darter	D	I	S	M	132	264.00	31.06	0.58	16.89	2.21
Mottled Sculpin		I	C		2	4.00	0.47	0.01	0.35	3.00
<i>Date Total</i>					425	850.00		3.46		
<i>Number of Species</i>					15					
<i>Number of Hybrids</i>					0					

Species List

River Code: 20-021	Stream: Plum Creek	Sample Date: 07/29/1997
River Mile: 3.30	Location: upst. St. Rt. 511 at park	Invalid Sample:
Time Fished: 1800 sec	Drainage: 7.7 sq mi	Data Source: 01
Dist Fished: 0.18 km	Basin: Black River	Sampler Type: E
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	25	41.67	9.09			
Western Blacknose Dace	N	G	S	T	22	36.67	8.00			
Creek Chub	N	G	N	T	129	215.00	46.91			
Sand Shiner	N	I	M	M	2	3.33	0.73			
Bluntnose Minnow	N	O	C	T	5	8.33	1.82			
Green Sunfish	S	I	C	T	83	138.33	30.18			
Bluegill Sunfish	S	I	C	P	7	11.67	2.55			
Hybrid X Sunfish					1	1.67	0.36			
Mottled Sculpin		I	C		1	1.67	0.36			
<i>Date Total</i>					275	458.33				
<i>Number of Species</i>					8					
<i>Number of Hybrids</i>					1					

Species List

River Code: 20-021	Stream: Plum Creek	Sample Date: 08/27/1997
River Mile: 3.30	Location: upst. St. Rt. 511 at park	Invalid Sample:
Time Fished: 1500 sec	Drainage: 7.7 sq mi	Data Source: 01
Dist Fished: 0.18 km	Basin: Black River	Depth: 25 cm
		Flow: C
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	44	73.33	14.10			
Golden Shiner	N	I	M	T	1	1.67	0.32			
Western Blacknose Dace	N	G	S	T	13	21.67	4.17			
Creek Chub	N	G	N	T	164	273.33	52.56			
Striped Shiner	N	I	S		6	10.00	1.92			
Bigmouth Shiner [T]	N	I	M		1	1.67	0.32			
Fathead Minnow	N	O	C	T	3	5.00	0.96			
Bluntnose Minnow	N	O	C	T	11	18.33	3.53			
Black Bullhead		I	C	P	1	1.67	0.32			
Green Sunfish	S	I	C	T	68	113.33	21.79			
<i>Date Total</i>					312	520.00				
<i>Number of Species</i>					10					
<i>Number of Hybrids</i>					0					

Species List

River Code: 20-021	Stream: Plum Creek	Sample Date: 07/24/1997
River Mile: 2.90	Location: upst. Oberlin WWTP	Invalid Sample:
Time Fished:	Drainage: 7.9 sq mi	Data Source: 01
Dist Fished: 0.16 km	Basin: Black River	Depth: 35 cm
		Flow: C
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	2	3.75	1.48			
Western Blacknose Dace	N	G	S	T	7	13.13	5.19			
Creek Chub	N	G	N	T	61	114.38	45.19			
Green Sunfish	S	I	C	T	65	121.88	48.15			
<i>Date Total</i>					135	253.13				
<i>Number of Species</i>					4					
<i>Number of Hybrids</i>					0					

Species List

River Code: 20-021	Stream: Plum Creek	Sample Date: 08/27/1997
River Mile: 2.90	Location: upst. Oberlin WWTP	Invalid Sample:
Time Fished: 1800 sec	Drainage: 7.9 sq mi	Data Source: 01
Dist Fished: 0.15 km	Basin: Black River	Depth: 30 cm
		Flow: C
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	10	20.00	7.94			
Golden Shiner	N	I	M	T	1	2.00	0.79			
Western Blacknose Dace	N	G	S	T	4	8.00	3.17			
Creek Chub	N	G	N	T	51	102.00	40.48			
Striped Shiner	N	I	S		1	2.00	0.79			
Yellow Bullhead		I	C	T	1	2.00	0.79			
Green Sunfish	S	I	C	T	54	108.00	42.86			
Bluegill Sunfish	S	I	C	P	2	4.00	1.59			
Hybrid X Sunfish					2	4.00	1.59			
<i>Date Total</i>					126	252.00				
<i>Number of Species</i>					8					
<i>Number of Hybrids</i>					1					

Species List

River Code: 20-021	Stream: Plum Creek	Sample Date: 07/29/1997
River Mile: 1.60	Location: Hale Rd.	Invalid Sample:
Time Fished: 1500 sec	Drainage: 8.7 sq mi	Data Source: 01
Dist Fished: 0.15 km	Basin: Black River	Depth: 30 cm
		Flow: C
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Golden Shiner	N	I	M	T	1	2.00	0.81			
Western Blacknose Dace	N	G	S	T	9	18.00	7.32			
Creek Chub	N	G	N	T	43	86.00	34.96			
Common Shiner	N	I	S		1	2.00	0.81			
Fathead Minnow	N	O	C	T	1	2.00	0.81			
Bluntnose Minnow	N	O	C	T	6	12.00	4.88			
Yellow Bullhead		I	C	T	2	4.00	1.63			
Green Sunfish	S	I	C	T	42	84.00	34.15			
Bluegill Sunfish	S	I	C	P	4	8.00	3.25			
Mottled Sculpin		I	C		14	28.00	11.38			
<i>Date Total</i>					123	246.00				
<i>Number of Species</i>					10					
<i>Number of Hybrids</i>					0					

Species List

River Code: 20-021	Stream: Plum Creek	Sample Date: 09/19/1997
River Mile: 1.60	Location: Hale Rd.	Invalid Sample:
Time Fished: 2100 sec	Drainage: 8.7 sq mi	Data Source: 01
Dist Fished: 0.15 km	Basin: Black River	Depth: 30 cm
		Flow: C
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	10	20.00	6.25			
Western Blacknose Dace	N	G	S	T	13	26.00	8.13			
Creek Chub	N	G	N	T	81	162.00	50.63			
Striped Shiner	N	I	S		4	8.00	2.50			
Fathead Minnow	N	O	C	T	1	2.00	0.63			
Central Stoneroller	N	H	N		1	2.00	0.63			
Yellow Bullhead		I	C	T	5	10.00	3.13			
Green Sunfish	S	I	C	T	31	62.00	19.38			
Bluegill Sunfish	S	I	C	P	5	10.00	3.13			
Blackside Darter	D	I	S		1	2.00	0.63			
Johnny Darter	D	I	C		1	2.00	0.63			
Mottled Sculpin		I	C		7	14.00	4.38			
<i>Date Total</i>					160	320.00				
<i>Number of Species</i>					12					
<i>Number of Hybrids</i>					0					

Species List

River Code: 20-030	Stream: Trib. to E. Br. Black R. (RM 22.65)	Sample Date: 10/10/1997
River Mile: 1.70	Location:	Invalid Sample:
Time Fished: 2471 sec	Drainage: 5.6 sq mi	Data Source: 99
Dist Fished: 0.20 km	Basin: Black River	Depth: Flow: C
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	19	28.50	5.85			
Western Blacknose Dace	N	G	S	T	6	9.00	1.85			
Creek Chub	N	G	N	T	92	138.00	28.31			
Redside Dace	N	I	S	I	44	66.00	13.54			
Common Shiner	N	I	S		37	55.50	11.38			
Bigmouth Shiner [T]	N	I	M		8	12.00	2.46			
Bluntnose Minnow	N	O	C	T	34	51.00	10.46			
Central Stoneroller	N	H	N		28	42.00	8.62			
Yellow Bullhead		I	C	T	1	1.50	0.31			
Green Sunfish	S	I	C	T	7	10.50	2.15			
Bluegill Sunfish	S	I	C	P	5	7.50	1.54			
Green Sf X Bluegill Sf					2	3.00	0.62			
Blackside Darter	D	I	S		3	4.50	0.92			
Johnny Darter	D	I	C		29	43.50	8.92			
Fantail Darter	D	I	C		4	6.00	1.23			
Mottled Sculpin		I	C		6	9.00	1.85			
<i>Date Total</i>					325	487.50				
<i>Number of Species</i>					15					
<i>Number of Hybrids</i>					1					

Species List

River Code: 20-031	Stream: Trib. to E. Br. Black R. (RM 39.06)	Sample Date: 10/10/1997
River Mile: 3.60	Location:	Invalid Sample:
Time Fished:	Drainage: 3.1 sq mi	Depth: 30 cm
Dist Fished: 0.20 km	Basin: Black River	Data Source: 99
		Flow: C
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	23	34.50	7.10			
Western Blacknose Dace	N	G	S	T	31	46.50	9.57			
Creek Chub	N	G	N	T	139	208.50	42.90			
South. Redbelly Dace	N	H	S		1	1.50	0.31			
Redside Dace	N	I	S	I	83	124.50	25.62			
Central Stoneroller	N	H	N		5	7.50	1.54			
Bluegill Sunfish	S	I	C	P	1	1.50	0.31			
Mottled Sculpin		I	C		41	61.50	12.65			
<i>Date Total</i>					324	486.00				
<i>Number of Species</i>					8					
<i>Number of Hybrids</i>					0					

Appendix Table 7. ICI scores, metrics, and macroinvertebrate community data for sites sampled in the Black River basin, 1997.

River Mile	Drainage Area (sq mi)	Number of				Percent:					Qual. EPT	Eco-region	ICI
		Total Taxa	Mayfly Taxa	Caddisfly Taxa	Dipteran Taxa	Mayflies	Caddisflies	Tanytarsini	Other Dipt/NI	Tolerant Organisms			
Black River (20-001)													
Year: 1997													
15.10	396.0	38(6)	5(2)	5(4)	16(6)	10.1(2)	60.0(6)	11.9(2)	17.6(6)	0.7(6)	13(4)	3	44
12.30	404.0	37(6)	7(4)	7(6)	11(4)	7.5(2)	33.1(6)	39.1(6)	17.8(6)	0.5(6)	17(6)	3	52
9.80	413.0	33(4)	8(4)	5(4)	9(2)	4.2(2)	32.3(6)	46.1(6)	17.0(6)	0.0(6)	12(4)	3	44
8.70	414.0	30(4)	5(2)	7(6)	9(2)	6.7(2)	38.0(6)	43.2(6)	11.2(6)	0.5(6)	12(4)	3	44
French Creek (20-002)													
Year: 1997													
3.20	27.0	31(4)	6(4)	2(4)	16(4)	9.3(2)	58.1(6)	3.8(2)	25.7(6)	11.2(4)	8(4)	3	40
Beaver Creek (20-003)													
Year: 1997													
7.10	20.1	34(4)	9(6)	2(4)	16(4)	42.9(6)	5.3(4)	37.3(6)	13.9(6)	0.1(6)	7(2)	3	48
4.80	24.2	30(4)	7(4)	2(4)	16(4)	24.3(4)	4.7(4)	33.0(6)	37.7(4)	3.8(6)	10(4)	3	44
2.80	24.7	24(2)	4(2)	1(2)	12(2)	4.2(2)	0.0(2)	6.2(2)	89.5(0)	59.3(0)	2(0)	3	14
East Branch Black River (20-010)													
Year: 1997													
40.40	71.0	46(6)	8(4)	6(6)	18(4)	1.9(2)	22.8(6)	58.2(6)	16.3(6)	1.3(6)	9(2)	3	48
32.40	105.0	38(6)	6(4)	3(4)	19(4)	6.7(2)	16.4(4)	55.6(6)	17.2(6)	3.5(6)	6(2)	3	44
18.90	166.0	39(6)	7(4)	2(2)	20(6)	42.9(6)	18.5(4)	4.7(2)	32.9(4)	0.9(6)	12(4)	3	44
11.30	185.0	36(4)	9(6)	7(6)	9(2)	16.2(4)	10.9(4)	60.8(6)	11.9(6)	1.5(6)	14(4)	3	48
10.80	185.0	47(6)	6(4)	7(6)	22(6)	18.2(4)	9.9(2)	35.2(6)	33.3(4)	8.9(2)	14(4)	3	44
6.00	192.0	29(4)	4(2)	6(6)	11(2)	15.6(2)	27.0(6)	41.0(6)	14.6(6)	0.7(6)	16(6)	3	46
5.20	210.0	46(6)	7(4)	9(6)	16(4)	15.4(2)	10.9(2)	51.2(6)	22.0(6)	0.7(6)	18(6)	3	48
3.00	212.0	24(2)	4(2)	6(6)	7(2)	20.7(4)	24.2(6)	48.4(6)	6.6(6)	1.0(6)	13(4)	3	44
0.10	215.8	38(6)	6(4)	5(6)	15(4)	7.4(2)	17.4(4)	41.1(6)	34.1(4)	0.8(6)	12(4)	3	46
West Branch Black River (20-020)													
Year: 1997													
0.10	175.0	35(4)	4(2)	5(6)	16(4)	3.6(2)	8.0(2)	49.6(6)	38.0(4)	2.4(6)	6(2)	3	38
Plum Creek (20-021)													
Year: 1997													
3.30	9.7	28(4)	3(2)	0(0)	18(4)	1.5(2)	0.0(0)	25.7(6)	72.7(0)	18.2(4)	6(2)	3	24
2.90	9.8	34(4)	4(2)	3(6)	17(4)	19.4(4)	4.6(6)	11.4(4)	63.3(0)	23.5(2)	4(2)	3	34
0.80	10.7	41(6)	4(2)	3(6)	26(6)	18.1(4)	3.9(6)	21.9(6)	55.1(2)	11.3(4)	6(2)	3	44

Appendix Table 7. ICI scores, metrics, and macroinvertebrate community data for sites sampled in the Black River basin, 1997.

River Mile	Percent Lacustrary	Number of			Percent:					Diptera/ ft ²	Qual. EPT	Eco-region	LICI
		Total Taxa	Sensitive Taxa	Dipteran Taxa	Mayflies & Caddisflies	Gatherers ^a	Sensitive Organisms	Other Diptera ^b	Predom Taxon				
Black River (20-001)													
Year: 1997													
5.50 W	83.3	23(2)	5(0)	7(2)	1.0(2)	92.3(0)	1.9(2)	96.2(0)	75.1(2)	5664(0)	0(0)	3	10
5.20 E	78.8	23(2)	5(0)	5(0)	2.4(2)	93.7(0)	0.7(2)	96.5(0)	86.2(0)	2262(2)	1(2)	3	10
4.90 W	74.2	24(4)	3(0)	12(2)	3.7(2)	86.3(2)	4.0(2)	92.1(0)	38.4(6)	708(4)	2(2)	3	24
3.60 W	54.5	21(2)	5(0)	4(0)	1.2(2)	91.2(0)	0.6(2)	96.4(0)	78.6(2)	2717(2)	1(2)	3	12
2.30 W	34.8	22(2)	4(0)	6(0)	5.6(2)	84.5(2)	1.4(2)	93.3(2)	21.1(6)	554(4)	0(0)	3	20
0.90 E	13.6	20(2)	3(0)	6(0)	0.0(2)	86.7(2)	0.6(2)	98.7(0)	28.6(6)	499(4)	0(0)	3	18
0.10 E	1.5	19(2)	1(0)	9(2)	0.0(0)	97.6(0)	0.0(0)	100(0)	48.2(2)	83.2(6)	0(0)	3	12

^a Percent of total gatherers as individuals excluding zebra mussels (*Dreissena polymorpha*).

^b Percent of dipterans as individuals excluding the midge tribe Tanytarsini.

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: Black River

Collection Date: 09/03/1997 River Code: 20-001 RM: 15.10

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	8	85625	<i>Rheotanytarsus sp</i>	729 +
01801	<i>Turbellaria</i>	37 +	85800	<i>Tanytarsus sp</i>	18
03121	<i>Paludicella articulata</i>	1 +	85814	<i>Tanytarsus glabrescens group</i>	53
03360	<i>Plumatella sp</i>	+	85840	<i>Tanytarsus sepp</i>	18
03600	<i>Oligochaeta</i>	16	87540	<i>Hemerodromia sp</i>	18 +
05800	<i>Caecidotea sp</i>	1 +	96900	<i>Ferrissia sp</i>	16 +
08240	<i>Orconectes (Crockerinus) propinquus</i>	+	98600	<i>Sphaerium sp</i>	1 +
08601	<i>Hydrachnidia</i>	24	99680	<i>Leptodea fragilis</i>	+
11120	<i>Baetis flavistriga</i>	3 +			
11130	<i>Baetis intercalaris</i>	110 +	No. Quantitative Taxa: 38		Total Taxa: 52
13400	<i>Stenacron sp</i>	188 +	No. Qualitative Taxa: 36		ICI: 44
13521	<i>Stenonema femoratum</i>	+	Number of Organisms: 6875		Qual EPT: 13
13561	<i>Maccaffertium pulchellum</i>	333 +			
16700	<i>Tricorythodes sp</i>	59			
22300	<i>Argia sp</i>	+			
47600	<i>Sialis sp</i>	+			
48410	<i>Corydalus cornutus</i>	9 +			
51600	<i>Polycentropus sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	1687 +			
52430	<i>Ceratopsyche morosa group</i>	586 +			
52530	<i>Hydropsyche depravata group</i>	305 +			
52540	<i>Hydropsyche dicantha</i>	1543 +			
53800	<i>Hydroptila sp</i>	1			
58505	<i>Helicopsyche borealis</i>	+			
59100	<i>Ceraclea sp</i>	+			
59110	<i>Ceraclea ancylus</i>	+			
59970	<i>Petrophila sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68601	<i>Ancyronyx variegata</i>	2			
68901	<i>Macronychus glabratus</i>	3			
69400	<i>Stenelmis sp</i>	18 +			
74100	<i>Simulium sp</i>	2 +			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	35			
77800	<i>Helopelopia sp</i>	18 +			
78450	<i>Nilotanypus fimbriatus</i>	32			
80410	<i>Cricotopus (C.) sp</i>	35			
80420	<i>Cricotopus (C.) bicinctus</i>	18			
80430	<i>Cricotopus (C.) tremulus group</i>	+			
81201	<i>Nanocladius (N.) sp</i>	18 +			
82121	<i>Thienemanniella lobapodema</i>	16			
82141	<i>Thienemanniella xena</i>	8			
82820	<i>Cryptochironomus sp</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	888 +			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	18 +			

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Black River

Collection Date: 09/03/1997 River Code: 20-001 RM: 12.30

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00653	<i>Eunapius fragilis</i>	+	80430	<i>Cricotopus (C.) tremulus group</i>	15
01801	<i>Turbellaria</i>	25 +	83040	<i>Dicrotendipes neomodestus</i>	15
03121	<i>Paludicella articulata</i>	+	83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	+
03360	<i>Plumatella sp</i>	1 +	84450	<i>Polypedilum (Uresipedilum) flavum</i>	283 +
03600	<i>Oligochaeta</i>	18 +	84490	<i>Polypedilum (Cerobregma) ontario</i>	15
05800	<i>Caecidotea sp</i>	4 +	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	30
06700	<i>Crangonyx sp</i>	+	85625	<i>Rheotanytarsus sp</i>	922 +
08260	<i>Orconectes (Crockerinus) sanbornii sanbornii</i>	+	85800	<i>Tanytarsus sp</i>	44
11120	<i>Baetis flavistriga</i>	4	85814	<i>Tanytarsus glabrescens group</i>	431 +
11130	<i>Baetis intercalaris</i>	106 +	86401	<i>Atherix lantha</i>	+
13000	<i>Leucrocuta sp</i>	+	87540	<i>Hemerodromia sp</i>	78 +
13400	<i>Stenacron sp</i>	12 +	94400	<i>Fossaria sp</i>	+
13521	<i>Stenonema femoratum</i>	+	95100	<i>Physella sp</i>	+
13561	<i>Maccaffertium pulchellum</i>	126 +	96900	<i>Ferrissia sp</i>	1
16700	<i>Tricorythodes sp</i>	2 +	98600	<i>Sphaerium sp</i>	2 +
17200	<i>Caenis sp</i>	17 +			
18600	<i>Ephemera sp</i>	1 +			
22001	<i>Coenagrionidae</i>	+	No. Quantitative Taxa: 37		Total Taxa: 59
22300	<i>Argia sp</i>	+	No. Qualitative Taxa: 46		ICI: 52
23909	<i>Boyeria vinosa</i>	+	Number of Organisms: 3572		Qual EPT: 17
48410	<i>Corydalus cornutus</i>	16 +			
50315	<i>Chimarra obscura</i>	13 +			
51300	<i>Neureclipsis sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	859 +			
52430	<i>Ceratopsyche morosa group</i>	75			
52530	<i>Hydropsyche depravata group</i>	3			
52540	<i>Hydropsyche dicantha</i>	190 +			
52570	<i>Hydropsyche simulans</i>	+			
53800	<i>Hydroptila sp</i>	39 +			
58505	<i>Helicopsyche borealis</i>	3 +			
59110	<i>Ceraclea ancylus</i>	+			
59160	<i>Ceraclea spongillovorax</i>	+			
59970	<i>Petrophila sp</i>	+			
65800	<i>Berosus sp</i>	13 +			
68025	<i>Ectopria sp</i>	8			
68075	<i>Psephenus herricki</i>	+			
68601	<i>Ancyronyx variegata</i>	3			
68708	<i>Dubiraphia vittata group</i>	+			
68901	<i>Macronychus glabratus</i>	3 +			
69400	<i>Stenelmis sp</i>	46 +			
74100	<i>Simulium sp</i>	+			
77500	<i>Conchapelopia sp</i>	134			
77800	<i>Helopelopia sp</i>	+			
78750	<i>Rheopelopia paramaculipennis</i>	15			

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Black River

Collection Date: 07/22/1997 River Code: 20-001 RM: 10.60 A

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03600	<i>Oligochaeta</i>	+			
05800	<i>Caecidotea sp</i>	+			
06201	<i>Hyalella azteca</i>	+			
06700	<i>Crangonyx sp</i>	+			
08260	<i>Orconectes (Crockerinus) sanbornii sanbornii</i>	+			
11130	<i>Baetis intercalaris</i>	+			
13561	<i>Maccaffertium pulchellum</i>	+			
17200	<i>Caenis sp</i>	+			
47600	<i>Sialis sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
52540	<i>Hydropsyche dicantha</i>	+			
53800	<i>Hydroptila sp</i>	+			
65800	<i>Berosus sp</i>	+			
69400	<i>Stenelmis sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77500	<i>Conchapelopia sp</i>	+			
77800	<i>Helopelopia sp</i>	+			
78750	<i>Rheopelopia paramaculipennis</i>	+			
80410	<i>Cricotopus (C.) sp</i>	+			
82141	<i>Thienemanniella xena</i>	+			
82730	<i>Chironomus (C.) decorus group</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	+			
84300	<i>Phaenopsectra obediens group</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
85625	<i>Rheotanytarsus sp</i>	+			
85800	<i>Tanytarsus sp</i>	+			
95100	<i>Physella sp</i>	+			

No. Quantitative Taxa: 0 Total Taxa: 31
 No. Qualitative Taxa: 31 ICI:
 Number of Organisms: 0 Qual EPT: 7

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Black River

Collection Date: 08/28/1997 River Code: 20-001 RM: 10.60 B

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03360	<i>Plumatella sp</i>	+			
03600	<i>Oligochaeta</i>	+			
05800	<i>Caecidotea sp</i>	+			
06201	<i>Hyaella azteca</i>	+			
06700	<i>Crangonyx sp</i>	+			
08260	<i>Orconectes (Crockerinus) sanbornii sanbornii</i>	+			
11130	<i>Baetis intercalaris</i>	+			
13000	<i>Leucrocota sp</i>	+			
13400	<i>Stenacron sp</i>	+			
13561	<i>Maccaffertium pulchellum</i>	+			
17200	<i>Caenis sp</i>	+			
21200	<i>Calopteryx sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
23909	<i>Boyeria vinosa</i>	+			
47600	<i>Sialis sp</i>	+			
48410	<i>Corydalus cornutus</i>	+			
50315	<i>Chimarra obscura</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
52540	<i>Hydropsyche dicantha</i>	+			
65800	<i>Berosus sp</i>	+			
68130	<i>Helichus sp</i>	+			
68601	<i>Ancyronyx variegata</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
68901	<i>Macronychus glabratus</i>	+			
69400	<i>Stenelmis sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	+			
80510	<i>Cricotopus (Isocladius) sylvestris group</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
85625	<i>Rheotanytarsus sp</i>	+			
87540	<i>Hemerodromia sp</i>	+			
95100	<i>Physella sp</i>	+			

No. Quantitative Taxa: 0 Total Taxa: 38
 No. Qualitative Taxa: 38 ICI:
 Number of Organisms: 0 Qual EPT: 10

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: Black River
 Ford Rd.

Collection Date: 09/03/1997 River Code: 20-001 RM: 9.80

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	3 +	87540	<i>Hemerodromia sp</i>	194
03121	<i>Paludicella articulata</i>	1 +	98600	<i>Sphaerium sp</i>	+
03360	<i>Plumatella sp</i>	1 +			
05800	<i>Caecidotea sp</i>	+	No. Quantitative Taxa: 33		Total Taxa: 45
06201	<i>Hyaella azteca</i>	+	No. Qualitative Taxa: 36		ICI: 44
06700	<i>Crangonyx sp</i>	+	Number of Organisms: 9654		Qual EPT: 12
08260	<i>Orconectes (Crockerinus) sanbornii sanbornii</i>	+			
08601	<i>Hydrachnidia</i>	96			
11120	<i>Baetis flavistriga</i>	9 +			
11130	<i>Baetis intercalaris</i>	132 +			
12200	<i>Isonychia sp</i>	1			
13000	<i>Leucrocuta sp</i>	5 +			
13400	<i>Stenacron sp</i>	115 +			
13510	<i>Maccaffertium exiguum</i>	2			
13521	<i>Stenonema femoratum</i>	3 +			
13561	<i>Maccaffertium pulchellum</i>	142 +			
17200	<i>Caenis sp</i>	+			
21200	<i>Calopteryx sp</i>	1 +			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	3 +			
48410	<i>Corydalus cornutus</i>	7 +			
50315	<i>Chimarra obscura</i>	+			
52200	<i>Cheumatopsyche sp</i>	2571 +			
52430	<i>Ceratopsyche morosa group</i>	92 +			
52530	<i>Hydropsyche depravata group</i>	4 +			
52540	<i>Hydropsyche dicantha</i>	313 +			
52570	<i>Hydropsyche simulans</i>	140			
65800	<i>Berosus sp</i>	+			
68601	<i>Ancyronyx variegata</i>	15			
68708	<i>Dubiraphia vittata group</i>	2 +			
68901	<i>Macronychus glabratus</i>	8 +			
69400	<i>Stenelmis sp</i>	1 +			
74100	<i>Simulium sp</i>	1 +			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	366			
78450	<i>Nilotanytus fimbriatus</i>	61			
80420	<i>Cricotopus (C.) bicinctus</i>	+			
81460	<i>Orthocladius (O.) sp</i>	61 +			
82820	<i>Cryptochironomus sp</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	61 +			
83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	793 +			
85625	<i>Rheotanytarsus sp</i>	3780 +			
85814	<i>Tanytarsus glabrescens group</i>	670			

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: Black River

Collection Date: 09/03/1997 River Code: 20-001 RM: 8.70

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	14 +	81650	<i>Parametriocnemus sp</i>	52
03360	<i>Plumatella sp</i>	8 +	83840	<i>Microtendipes pedellus group</i>	26
03600	<i>Oligochaeta</i>	32 +	84450	<i>Polypedilum (Uresipedilum) flavum</i>	208 +
05800	<i>Caecidotea sp</i>	+	85625	<i>Rheotanytarsus sp</i>	2682 +
06201	<i>Hyaella azteca</i>	+	85720	<i>Stempellinella fimbriata</i>	+
08260	<i>Orconectes (Crockerinus) sanbornii sanbornii</i>	+	85814	<i>Tanytarsus glabrescens group</i>	52 +
08601	<i>Hydrachnidia</i>	128	87540	<i>Hemerodromia sp</i>	84 +
11120	<i>Baetis flavistriga</i>	85 +	96900	<i>Ferrissia sp</i>	1 +
11130	<i>Baetis intercalaris</i>	237 +			
12200	<i>Isonychia sp</i>	8	No. Quantitative Taxa: 30		Total Taxa: 51
13000	<i>Leucrocota sp</i>	24 +	No. Qualitative Taxa: 41		ICI: 44
13400	<i>Stenacron sp</i>	+	Number of Organisms: 6326		Qual EPT: 12
13521	<i>Stenonema femoratum</i>	+			
13561	<i>Maccaffertium pulchellum</i>	67 +			
13570	<i>Maccaffertium terminatum</i>	+			
17200	<i>Caenis sp</i>	+			
21200	<i>Calopteryx sp</i>	+			
22300	<i>Argia sp</i>	+			
26700	<i>Macromia sp</i>	+			
42700	<i>Belostoma sp</i>	+			
47600	<i>Sialis sp</i>	+			
48410	<i>Corydalus cornutus</i>	10 +			
50315	<i>Chimarra obscura</i>	1 +			
52200	<i>Cheumatopsyche sp</i>	1435 +			
52430	<i>Ceratopsyche morosa group</i>	231 +			
52530	<i>Hydropsyche depravata group</i>	6			
52540	<i>Hydropsyche dicantha</i>	613 +			
52570	<i>Hydropsyche simulans</i>	120			
53800	<i>Hydroptila sp</i>	1			
60900	<i>Peltodytes sp</i>	+			
65800	<i>Berosus sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68601	<i>Ancyronyx variegata</i>	24 +			
68708	<i>Dubiraphia vittata group</i>	+			
68901	<i>Macronychus glabratus</i>	13 +			
69400	<i>Stenelmis sp</i>	8 +			
74100	<i>Simulium sp</i>	+			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	26			
77800	<i>Helopelopia sp</i>	+			
78450	<i>Nilotanypus fimbriatus</i>	52			
78750	<i>Rheopelopia paramaculipennis</i>	+			
80420	<i>Cricotopus (C.) bicinctus</i>	+			
81231	<i>Nanocladius (N.) crassicornus or N. (N.) "rectinervis"</i>	78			

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Black River
upst. French Creek

Collection Date: 09/04/1997 River Code: 20-001 RM: 5.50 W

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	810			
01801	<i>Turbellaria</i>	1 +			
03073	<i>Lophopodella carteri</i>	+			
03360	<i>Plumatella sp</i>	1 +			
03600	<i>Oligochaeta</i>	32 +			
05800	<i>Caecidotea sp</i>	1 +			
08260	<i>Orconectes (Crockerinus) sanbornii sanbornii</i>	+			
13521	<i>Stenonema femoratum</i>	1			
17200	<i>Caenis sp</i>	260			
21200	<i>Calopteryx sp</i>	1			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	529 +			
51206	<i>Cyrnellus fraternus</i>	48			
51300	<i>Neureclipsis sp</i>	1			
59700	<i>Triaenodes sp</i>	3			
60900	<i>Peltodytes sp</i>	+			
68601	<i>Ancyronyx variegata</i>	1			
68708	<i>Dubiraphia vittata group</i>	1 +			
69400	<i>Stenelmis sp</i>	1			
77130	<i>Ablabesmyia rhamphe group</i>	609			
77500	<i>Conchapelopia sp</i>	304			
83040	<i>Dicrotendipes neomodestus</i>	+			
83050	<i>Dicrotendipes lucifer</i>	3654			
83051	<i>Dicrotendipes simpsoni</i>	609			
83300	<i>Glyptotendipes (G.) sp</i>	22534 +			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	305			
85814	<i>Tanytarsus glabrescens group</i>	305 +			
95100	<i>Physella sp</i>	2			

No. Quantitative Taxa: 23 Total Taxa: 28

No. Qualitative Taxa: 13 ICI: 10

Number of Organisms: 30013 Qual EPT: 0

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Black River
upst. French Creek

Collection Date: 09/04/1997 River Code: 20-001 RM: 5.20 E

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01200	<i>Cordylophora lacustris</i>	80 +			
03073	<i>Lophopodella carteri</i>	+			
03360	<i>Plumatella sp</i>	1 +			
03600	<i>Oligochaeta</i>	80 +			
05800	<i>Caecidotea sp</i>	1			
06201	<i>Hyalella azteca</i>	+			
13550	<i>Maccaffertium mexicanum integrum</i>	1			
17200	<i>Caenis sp</i>	59 +			
21200	<i>Calopteryx sp</i>	1			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	109 +			
26700	<i>Macromia sp</i>	+			
51206	<i>Cyrnellus fraternus</i>	224			
59520	<i>Oecetis cinerascens</i>	1			
59700	<i>Triaenodes sp</i>	1			
68601	<i>Ancyronyx variegata</i>	1 +			
68708	<i>Dubiraphia vittata group</i>	1			
68901	<i>Macronychus glabratus</i>	1			
69400	<i>Stenelmis sp</i>	16			
77130	<i>Ablabesmyia rhamphe group</i>	149 +			
77500	<i>Conchapelopia sp</i>	149			
83051	<i>Dicrotendipes simpsoni</i>	595			
83300	<i>Glyptotendipes (G.) sp</i>	10270 +			
84460	<i>Polypedilum (P.) fallax group</i>	149			
95100	<i>Physella sp</i>	18			
96120	<i>Menetus (Micromenetus) dilatatus</i>	1			
98600	<i>Sphaerium sp</i>	3			

No. Quantitative Taxa: 23 Total Taxa: 27

No. Qualitative Taxa: 12 ICI: **10**

Number of Organisms: 11911 Qual EPT: 1

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Black River

Collection Date: 09/04/1997 River Code: 20-001 RM: 4.90 W dst. French Creek

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01200	<i>Cordylophora lacustris</i>	1			
01801	<i>Turbellaria</i>	+			
03073	<i>Lophopodella carteri</i>	4 +			
03360	<i>Plumatella sp</i>	+			
03600	<i>Oligochaeta</i>	32 +			
05800	<i>Caecidotea sp</i>	2 +			
06700	<i>Crangonyx sp</i>	+			
08260	<i>Orconectes (Crockerinus) sanbornii sanbornii</i>	+			
13400	<i>Stenacron sp</i>	+			
17200	<i>Caenis sp</i>	133 +			
21200	<i>Calopteryx sp</i>	2 +			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	137 +			
26700	<i>Macromia sp</i>	+			
28500	<i>Libellula sp</i>	+			
51206	<i>Cyrnellus fraternus</i>	19			
65800	<i>Berosus sp</i>	2			
68708	<i>Dubiraphia vittata group</i>	1			
69400	<i>Stenelmis sp</i>	+			
77130	<i>Ablabesmyia rhamphe group</i>	76 +			
77500	<i>Conchapelopia sp</i>	25			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	76			
78650	<i>Procladius sp</i>	+			
81201	<i>Nanocladius (N.) sp</i>	+			
81231	<i>Nanocladius (N.) crassicornus or N. (N.) "rectinervis"</i>	25			
81240	<i>Nanocladius (N.) distinctus</i>	76			
83040	<i>Dicrotendipes neomodestus</i>	25			
83050	<i>Dicrotendipes lucifer</i>	620			
83051	<i>Dicrotendipes simpsoni</i>	982 +			
83300	<i>Glyptotendipes (G.) sp</i>	1562 +			
84470	<i>Polypedilum (P.) illinoense</i>	25			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	25			
85625	<i>Rheotanytarsus sp</i>	25			
95100	<i>Physella sp</i>	187			
96900	<i>Ferrissia sp</i>	1			

No. Quantitative Taxa: 24 Total Taxa: 35

No. Qualitative Taxa: 20 ICI: **24**

Number of Organisms: 4063 Qual EPT: 2

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Black River

Collection Date: 09/02/1997 River Code: 20-001 RM: 3.60 W upst. Kobe 002 outfall

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00805	<i>Spongilla lacustris</i>	+			
01200	<i>Cordylophora lacustris</i>	8			
01320	<i>Hydra sp</i>	16			
01801	<i>Turbellaria</i>	3 +			
03073	<i>Lophopodella carteri</i>	20 +			
03221	<i>Pectinatella magnifica</i>	1			
03360	<i>Plumatella sp</i>	1			
04935	<i>Erpobdella punctata punctata</i>	1			
06201	<i>Hyaella azteca</i>	+			
06700	<i>Crangonyx sp</i>	1 +			
06810	<i>Gammarus fasciatus</i>	19 +			
17200	<i>Caenis sp</i>	52 +			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	339			
51206	<i>Cyrnellus fraternus</i>	109			
59520	<i>Oecetis cinerascens</i>	18			
65800	<i>Berosus sp</i>	1 +			
68708	<i>Dubiraphia vittata group</i>	+			
69400	<i>Stenelmis sp</i>	2 +			
77130	<i>Ablabesmyia rhamphe group</i>	610			
81240	<i>Nanocladius (N.) distinctus</i>	763			
83051	<i>Dicrotendipes simpsoni</i>	916			
83300	<i>Glyptotendipes (G.) sp</i>	11295 +			
84040	<i>Parachironomus frequens</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84888	<i>Xenochironomus xenolabis</i>	+			
95100	<i>Physella sp</i>	134 +			
97710	<i>Dreissena polymorpha</i>	54 +			

No. Quantitative Taxa: 21 Total Taxa: 28
 No. Qualitative Taxa: 17 ICI: 12
 Number of Organisms: 14363 Qual EPT: 1

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Black River

Collection Date: 09/02/1997 River Code: 20-001 RM: 2.30 W 0.4 mi. dst. turning basin

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01200	<i>Cordylophora lacustris</i>	1			
01320	<i>Hydra sp</i>	8			
01801	<i>Turbellaria</i>	302 +			
03360	<i>Plumatella sp</i>	1			
03600	<i>Oligochaeta</i>	840			
04964	<i>Mooreobdella microstoma</i>	1 +			
05800	<i>Caecidotea sp</i>	+			
06700	<i>Crangonyx sp</i>	1 +			
06810	<i>Gammarus fasciatus</i>	10 +			
08260	<i>Orconectes (Crockerinus) sanbornii sanbornii</i>	+			
08601	<i>Hydrachnidia</i>	16			
17200	<i>Caenis sp</i>	52			
22300	<i>Argia sp</i>	52 +			
51206	<i>Cyrnellus fraternus</i>	216			
59520	<i>Oecetis cinerascens</i>	1			
77120	<i>Ablabesmyia mallochi</i>	26			
77130	<i>Ablabesmyia rhamphe group</i>	52			
81240	<i>Nanocladius (N.) distinctus</i>	52			
83050	<i>Dicrotendipes lucifer</i>	931			
83051	<i>Dicrotendipes simpsoni</i>	1009			
83300	<i>Glyptotendipes (G.) sp</i>	698 +			
84470	<i>Polypedilum (P.) illinoense</i>	+			
95100	<i>Physella sp</i>	26 +			
96120	<i>Menetus (Micromenetus) dilatatus</i>	315 +			
97710	<i>Dreissena polymorpha</i>	176			

No. Quantitative Taxa: 22 Total Taxa: 25
 No. Qualitative Taxa: 11 ICI: **20**
 Number of Organisms: 4786 Qual EPT: 0

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Black River

Collection Date: 09/02/1997 River Code: 20-001 RM: 0.90 E 0.2 mi. dst. RR bridge

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00401	<i>Spongillidae</i>	+			
01320	<i>Hydra sp</i>	23			
01801	<i>Turbellaria</i>	183 +			
03221	<i>Pectinatella magnifica</i>	1			
03360	<i>Plumatella sp</i>	1			
03600	<i>Oligochaeta</i>	150			
06810	<i>Gammarus fasciatus</i>	53 +			
08601	<i>Hydrachnidia</i>	17			
22001	<i>Coenagrionidae</i>	1			
22300	<i>Argia sp</i>	17 +			
27307	<i>Epiteca (Epicordulia) princeps</i>	+			
53800	<i>Hydroptila sp</i>	1			
77130	<i>Ablabesmyia rhamphe group</i>	143			
83050	<i>Dicrotendipes lucifer</i>	546			
83051	<i>Dicrotendipes simpsoni</i>	832			
83300	<i>Glyptotendipes (G.) sp</i>	927 +			
84020	<i>Parachironomus carinatus</i>	24			
84888	<i>Xenochironomus xenolabis</i>	+			
85800	<i>Tanytarsus sp</i>	24			
93200	<i>Hydrobiidae</i>	90 +			
95100	<i>Physella sp</i>	1			
96120	<i>Menetus (Micromenetus) dilatatus</i>	126			
97601	<i>Corbicula fluminea</i>	+			
97710	<i>Dreissena polymorpha</i>	80 +			
99740	<i>Toxolasma parvus</i>	+			

No. Quantitative Taxa: 20 Total Taxa: 25
 No. Qualitative Taxa: 11 ICI: **18**
 Number of Organisms: 3240 Qual EPT: 0

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Black River
at mouth

Collection Date: 09/02/1997 River Code: 20-001 RM: 0.10 E

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01200	<i>Cordylophora lacustris</i>	1			
01320	<i>Hydra sp</i>	10			
01801	<i>Turbellaria</i>	613 +			
03360	<i>Plumatella sp</i>	1			
03600	<i>Oligochaeta</i>	1305 +			
05800	<i>Caecidotea sp</i>	10			
06810	<i>Gammarus fasciatus</i>	43 +			
77130	<i>Ablabesmyia rhamphe group</i>	10			
80427	<i>Cricotopus (C.) politus</i>	5			
80490	<i>Cricotopus (Isocladius) intersectus group</i>	+			
81240	<i>Nanocladius (N.) distinctus</i>	20			
82820	<i>Cryptochironomus sp</i>	5			
83040	<i>Dicrotendipes neomodestus</i>	26			
83050	<i>Dicrotendipes lucifer</i>	25			
83051	<i>Dicrotendipes simpsoni</i>	178 +			
83300	<i>Glyptotendipes (G.) sp</i>	142 +			
84020	<i>Parachironomus carinatus</i>	5			
95100	<i>Physella sp</i>	3 +			
96120	<i>Menetus (Micromenetus) dilatatus</i>	13			
97710	<i>Dreissena polymorpha</i>	291 +			

No. Quantitative Taxa: 19	Total Taxa: 20
No. Qualitative Taxa: 8	ICI: 12
Number of Organisms: 2706	Qual EPT: 0

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: French Creek

Collection Date: 09/03/1997 River Code: 20-002 RM: 5.50

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03600	<i>Oligochaeta</i>	+			
04935	<i>Erpobdella punctata punctata</i>	+			
05800	<i>Caecidotea sp</i>	+			
08260	<i>Orconectes (Crockerinus) sanbornii sanbornii</i>	+			
11120	<i>Baetis flavistriga</i>	+			
13521	<i>Stenonema femoratum</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
23600	<i>Aeshna sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
53800	<i>Hydroptila sp</i>	+			
65800	<i>Berosus sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
69400	<i>Stenelmis sp</i>	+			
71900	<i>Tipula sp</i>	+			
74100	<i>Simulium sp</i>	+			
77500	<i>Conchapelopia sp</i>	+			
77800	<i>Helopelopia sp</i>	+			
80430	<i>Cricotopus (C.) tremulus group</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
93200	<i>Hydrobiidae</i>	+			
95100	<i>Physella sp</i>	+			
98600	<i>Sphaerium sp</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 25
No. Qualitative Taxa: 25	ICI:
Number of Organisms: 0	Qual EPT: 5

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: French Creek
upst. St. Rt. 301

Collection Date: 09/03/1997 River Code: 20-002 RM: 3.20

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	44 +			
03360	<i>Plumatella sp</i>	+			
03600	<i>Oligochaeta</i>	74 +			
04685	<i>Placobdella ornata</i>	+			
04935	<i>Erpobdella punctata punctata</i>	+			
05800	<i>Caecidotea sp</i>	+			
07860	<i>Cambarus (Puncticambarus) robustus</i>	+			
08260	<i>Orconectes (Crockerinus) sanbornii sanbornii</i>	+			
11120	<i>Baetis flavistriga</i>	15 +			
11130	<i>Baetis intercalaris</i>	13 +			
13400	<i>Stenacron sp</i>	26 +			
13521	<i>Stenonema femoratum</i>	16 +			
16700	<i>Tricorythodes sp</i>	8			
17200	<i>Caenis sp</i>	85 +			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	889 +			
52530	<i>Hydropsyche depravata group</i>	131 +			
53501	<i>Hydroptilidae</i>	+			
65800	<i>Berosus sp</i>	9 +			
68700	<i>Dubiraphia sp</i>	1			
69400	<i>Stenelmis sp</i>	46 +			
74100	<i>Simulium sp</i>	5			
77120	<i>Ablabesmyia mallochi</i>	2			
77500	<i>Conchapelopia sp</i>	38			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	11			
77800	<i>Helopelopia sp</i>	61 +			
81231	<i>Nanocladius (N.) crassicornus or N. (N.) "rectinervis"</i>	7			
81250	<i>Nanocladius (N.) minimus</i>	5			
81471	<i>Orthocladius (O.) oliveri</i>	+			
82141	<i>Thienemanniella xena</i>	2			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	16			
84470	<i>Polypedilum (P.) illinoense</i>	2			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	18			
85500	<i>Paratanytarsus sp</i>	9			
85625	<i>Rheotanytarsus sp</i>	23			
85800	<i>Tanytarsus sp</i>	7			
85814	<i>Tanytarsus glabrescens group</i>	27			
87540	<i>Hemerodromia sp</i>	38 +			
96900	<i>Ferrissia sp</i>	120 +			
98600	<i>Sphaerium sp</i>	9			

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: French Creek
dst. Gulf Rd.

Collection Date: 09/03/1997 River Code: 20-002 RM: 0.40

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
03600	<i>Oligochaeta</i>	+			
08260	<i>Orconectes (Crockerinus) sanbornii sanbornii</i>	+			
13400	<i>Stenacron sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
21200	<i>Calopteryx sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
23909	<i>Boyeria vinosa</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
65800	<i>Berosus sp</i>	+			
69400	<i>Stenelmis sp</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84460	<i>Polypedilum (P.) fallax group</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84700	<i>Stenochironomus sp</i>	+			
95100	<i>Physella sp</i>	+			
98001	<i>Sphaeriidae</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 18
No. Qualitative Taxa: 18	ICI:
Number of Organisms: 0	Qual EPT: 4

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Beaver Creek
Middle Ridge Rd.

Collection Date: 09/04/1997 River Code: 20-003 RM: 7.10

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	32			
01801	<i>Turbellaria</i>	4 +	No. Quantitative Taxa: 34		Total Taxa: 43
05800	<i>Caecidotea sp</i>	1	No. Qualitative Taxa: 26		ICI: 48
06201	<i>Hyalella azteca</i>	+	Number of Organisms: 1440		Qual EPT: 7
08260	<i>Orconectes (Crockerinus) sanbornii sanbornii</i>	+			
11120	<i>Baetis flavistriga</i>	54 +			
11130	<i>Baetis intercalaris</i>	7			
12200	<i>Isonychia sp</i>	166 +			
13000	<i>Leucrocota sp</i>	15 +			
13400	<i>Stenacron sp</i>	25			
13521	<i>Stenonema femoratum</i>	300 +			
13590	<i>Maccaffertium vicarium</i>	26			
14950	<i>Leptophlebia sp or Paraleptophlebia sp</i>	1			
17200	<i>Caenis sp</i>	24			
21200	<i>Calopteryx sp</i>	+			
23909	<i>Boyeria vinosa</i>	+			
52200	<i>Cheumatopsyche sp</i>	74 +			
52430	<i>Ceratopsyche morosa group</i>	2 +			
52530	<i>Hydropsyche depravata group</i>	+			
68075	<i>Psephenus herricki</i>	1 +			
68901	<i>Macronychus glabratus</i>	1 +			
69400	<i>Stenelmis sp</i>	7 +			
74100	<i>Simulium sp</i>	2 +			
74501	<i>Ceratopogonidae</i>	4			
77500	<i>Conchapelopia sp</i>	34 +			
77800	<i>Helopelopia sp</i>	11 +			
78350	<i>Meropelopia sp</i>	+			
78450	<i>Nilotanytus fimbriatus</i>	4 +			
80351	<i>Corynoneura n.sp 1</i>	8			
80370	<i>Corynoneura lobata</i>	28			
81650	<i>Parametriocnemus sp</i>	+			
82141	<i>Thienemanniella xena</i>	4			
83840	<i>Microtendipes pedellus group</i>	23			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	11			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	6			
85625	<i>Rheotanytarsus sp</i>	502 +			
85800	<i>Tanytarsus sp</i>	6			
85814	<i>Tanytarsus glabrescens group</i>	29			
86401	<i>Atherix lantha</i>	1 +			
87540	<i>Hemerodromia sp</i>	26			
96900	<i>Ferrissia sp</i>	1 +			
98001	<i>Sphaeriidae</i>	+			

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Beaver Creek
upst. W. Martin Ave.

Collection Date: 09/04/1997 River Code: 20-003 RM: 4.80

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	2			
01801	<i>Turbellaria</i>	1 +	No. Quantitative Taxa: 30		Total Taxa: 44
03600	<i>Oligochaeta</i>	18	No. Qualitative Taxa: 31		ICI: 44
08260	<i>Orconectes (Crockerinus) sanbornii sanbornii</i>	+	Number of Organisms: 655		Qual EPT: 10
11120	<i>Baetis flavistriga</i>	18 +			
12200	<i>Isonychia sp</i>	9 +			
13000	<i>Leucrocuta sp</i>	6 +			
13400	<i>Stenacron sp</i>	10 +			
13521	<i>Stenonema femoratum</i>	71 +			
13590	<i>Maccaffertium vicarium</i>	12 +			
17200	<i>Caenis sp</i>	33 +			
22300	<i>Argia sp</i>	+			
23600	<i>Aeshna sp</i>	+			
45100	<i>Palmacorixa sp</i>	+			
47600	<i>Sialis sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	30 +			
52430	<i>Ceratopsyche morosa group</i>	1 +			
52530	<i>Hydropsyche depravata group</i>	+			
63300	<i>Hydroporini</i>	+			
68075	<i>Psephenus herricki</i>	+			
69400	<i>Stenelmis sp</i>	2 +			
70600	<i>Antocha sp</i>	2			
74100	<i>Simulium sp</i>	1 +			
77500	<i>Conchapelopia sp</i>	39			
78350	<i>Meropelopia sp</i>	20			
78450	<i>Nilotanypus fimbriatus</i>	14			
78655	<i>Procladius (Holotanypus) sp</i>	+			
80370	<i>Corynoneura lobata</i>	46			
81270	<i>Nanocladius (N.) spinipennis</i>	+			
81650	<i>Parametriocnemus sp</i>	39 +			
82141	<i>Thienemanniella xena</i>	6			
83300	<i>Glyptotendipes (G.) sp</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	49 +			
84460	<i>Polypedilum (P.) fallax group</i>	5			
84750	<i>Stictochironomus sp</i>	+			
85500	<i>Paratanytarsus sp</i>	+			
85625	<i>Rheotanytarsus sp</i>	162 +			
85800	<i>Tanytarsus sp</i>	5			
85802	<i>Tanytarsus curticornis</i>	20			
85814	<i>Tanytarsus glabrescens group</i>	29			
86401	<i>Atherix lantha</i>	1 +			
87540	<i>Hemerodromia sp</i>	2			
96900	<i>Ferrissia sp</i>	2 +			
98600	<i>Sphaerium sp</i>	+			

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Beaver Creek
dst. Cooper Forest Park Rd.

Collection Date: 09/04/1997 River Code: 20-003 RM: 2.80

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	11 +			
03600	<i>Oligochaeta</i>	298 +			
04664	<i>Helobdella stagnalis</i>	+			
04935	<i>Erpobdella punctata punctata</i>	1 +			
11120	<i>Baetis flavistriga</i>	82 +			
13400	<i>Stenacron sp</i>	1			
13521	<i>Stenonema femoratum</i>	23 +			
13590	<i>Maccaffertium vicarium</i>	1			
21200	<i>Calopteryx sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
23600	<i>Aeshna sp</i>	+			
45300	<i>Sigara sp</i>	+			
52530	<i>Hydropsyche depravata group</i>	1			
69400	<i>Stenelmis sp</i>	3 +			
77500	<i>Conchapelopia sp</i>	404 +			
78350	<i>Meropelopia sp</i>	+			
80204	<i>Brillia flavifrons group</i>	22			
80420	<i>Cricotopus (C.) bicinctus</i>	135			
80430	<i>Cricotopus (C.) tremulus group</i>	247 +			
81650	<i>Parametriocnemus sp</i>	22			
82710	<i>Chironomus (C.) sp</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	22			
83840	<i>Microtendipes pedellus group</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	22 +			
84460	<i>Polypedilum (P.) fallax group</i>	112 +			
84470	<i>Polypedilum (P.) illinoense</i>	897 +			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
85400	<i>Micropsectra sp</i>	22			
85800	<i>Tanytarsus sp</i>	45			
85814	<i>Tanytarsus glabrescens group</i>	90			
95100	<i>Physella sp</i>	57 +			
96120	<i>Menetus (Micromenetus) dilatatus</i>	16			
96900	<i>Ferrissia sp</i>	8			

No. Quantitative Taxa: 24 Total Taxa: 34
 No. Qualitative Taxa: 22 ICI: 14
 Number of Organisms: 2542 Qual EPT: 2

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: East Branch Black River

Collection Date: 09/02/1997 River Code: 20-010 RM: 40.40

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
03360	<i>Plumatella sp</i>	1	84450	<i>Polypedilum (Uresipedilum) flavum</i>	175 +
03600	<i>Oligochaeta</i>	8 +	84460	<i>Polypedilum (P.) fallax group</i>	+
06810	<i>Gammarus fasciatus</i>	38 +	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	29
11120	<i>Baetis flavistriga</i>	10	84612	<i>Saetheria tylus</i>	29
11130	<i>Baetis intercalaris</i>	12 +	85264	<i>Cladotanytarsus vanderwulpi group Type 4</i>	58 +
13400	<i>Stenacron sp</i>	14 +	85625	<i>Rheotanytarsus sp</i>	701 +
13510	<i>Maccaffertium exiguum</i>	5 +	85800	<i>Tanytarsus sp</i>	292 +
13521	<i>Stenonema femoratum</i>	2	85802	<i>Tanytarsus curticornis</i>	88
13561	<i>Maccaffertium pulchellum</i>	7	85814	<i>Tanytarsus glabrescens group</i>	1198
17200	<i>Caenis sp</i>	25 +	85840	<i>Tanytarsus sepp</i>	58
18600	<i>Ephemera sp</i>	2	86100	<i>Chrysops sp</i>	+
21200	<i>Calopteryx sp</i>	2	87540	<i>Hemerodromia sp</i>	28
22001	<i>Coenagrionidae</i>	1 +	95100	<i>Physella sp</i>	2
23909	<i>Boyeria vinosa</i>	2 +	96900	<i>Ferrissia sp</i>	43 +
24900	<i>Gomphus sp</i>	+	98600	<i>Sphaerium sp</i>	+
47600	<i>Sialis sp</i>	1			
50315	<i>Chimarra obscura</i>	22 +	No. Quantitative Taxa: 46		Total Taxa: 58
51400	<i>Nyctiophylax sp</i>	8	No. Qualitative Taxa: 35		ICI: 48
52200	<i>Cheumatopsyche sp</i>	828 +	Number of Organisms: 4115		Qual EPT: 9
52430	<i>Ceratopsyche morosa group</i>	29 +			
52530	<i>Hydropsyche depravata group</i>	46 +			
52550	<i>Hydropsyche frisoni</i>	6			
55300	<i>Ptilostomis sp</i>	+			
60400	<i>Gyrinus sp</i>	+			
67500	<i>Laccobius sp</i>	+			
68130	<i>Helichus sp</i>	1			
68601	<i>Ancyronyx variegata</i>	1			
68708	<i>Dubiraphia vittata group</i>	19 +			
68901	<i>Macronychus glabratus</i>	2 +			
69400	<i>Stenelmis sp</i>	5 +			
71100	<i>Hexatoma sp</i>	4 +			
74100	<i>Simulium sp</i>	+			
77500	<i>Conchapelopia sp</i>	88			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	58 +			
78450	<i>Nilotanypus fimbriatus</i>	29			
80370	<i>Corynoneura lobata</i>	48			
80420	<i>Cricotopus (C.) bicinctus</i>	+			
81650	<i>Parametriocnemus sp</i>	+			
82121	<i>Thienemanniella lobapodema</i>	32			
82820	<i>Cryptochironomus sp</i>	+			
83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	29			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	29 +			
84300	<i>Phaenopsectra obediens group</i>	+			

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: East Branch Black River

Collection Date: 09/02/1997 River Code: 20-010 RM: 32.40

Lorain/Medina County line

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	1	84210	<i>Paratendipes albimanus or P. duplicatus</i>	32
03600	<i>Oligochaeta</i>	20 +	84300	<i>Phaenopsectra obediens group</i>	16
06201	<i>Hyaella azteca</i>	1	84450	<i>Polypedilum (Uresipedilum) flavum</i>	+
06810	<i>Gammarus fasciatus</i>	1 +	84460	<i>Polypedilum (P.) fallax group</i>	48 +
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	84470	<i>Polypedilum (P.) illinoense</i>	+
08601	<i>Hydrachnidia</i>	8	84490	<i>Polypedilum (Cerobregma) ontario</i>	16
11130	<i>Baetis intercalaris</i>	10 +	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	16 +
12200	<i>Isonychia sp</i>	+	84750	<i>Stictochironomus sp</i>	+
13400	<i>Stenacron sp</i>	159 +	85500	<i>Paratanytarsus sp</i>	206
13521	<i>Stenonema femoratum</i>	3	85625	<i>Rheotanytarsus sp</i>	555
13561	<i>Maccaffertium pulchellum</i>	2	85800	<i>Tanytarsus sp</i>	190
14950	<i>Leptophlebia sp or Paraleptophlebia sp</i>	9	85814	<i>Tanytarsus glabrescens group</i>	555
17200	<i>Caenis sp</i>	1	85840	<i>Tanytarsus sepp</i>	16
18750	<i>Hexagenia limbata</i>	+	96900	<i>Ferrissia sp</i>	29 +
21200	<i>Calopteryx sp</i>	+	98600	<i>Sphaerium sp</i>	+
22300	<i>Argia sp</i>	103 +	99100	<i>Pyganodon grandis</i>	+
23909	<i>Boyeria vinosa</i>	+			
24900	<i>Gomphus sp</i>	+	No. Quantitative Taxa: 38		Total Taxa: 60
45100	<i>Palmacorixa sp</i>	+	No. Qualitative Taxa: 37		ICI: 44
50315	<i>Chimarra obscura</i>	+	Number of Organisms: 2737		Qual EPT: 6
51400	<i>Nyctiophylax sp</i>	4			
52200	<i>Cheumatopsyche sp</i>	440 +			
52430	<i>Ceratopsyche morosa group</i>	4			
60900	<i>Peltodytes sp</i>	+			
63300	<i>Hydroporini</i>	+			
67500	<i>Laccobius sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
68130	<i>Helichus sp</i>	+			
68708	<i>Dubiraphia vittata group</i>	1 +			
68901	<i>Macronychus glabratus</i>	7 +			
69400	<i>Stenelmis sp</i>	1 +			
71100	<i>Hexatoma sp</i>	+			
71910	<i>Tipula abdominalis</i>	+			
77120	<i>Ablabesmyia mallochi</i>	16			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	48 +			
77800	<i>Helopelopia sp</i>	79			
78401	<i>Natarsia species A (sensu Roback, 1978)</i>	+			
78450	<i>Nilotanytus fimbriatus</i>	16 +			
80370	<i>Corynoneura lobata</i>	20			
82121	<i>Thienemanniella lobapodema</i>	40			
82730	<i>Chironomus (C.) decorus group</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	16			
83300	<i>Glyptotendipes (G.) sp</i>	16 +			
83840	<i>Microtendipes pedellus group</i>	32			

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: East Branch Black River
Vermont Rd.

Collection Date: 09/02/1997 River Code: 20-010 RM: 18.90

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00653	<i>Eunapius fragilis</i>	+	80410	<i>Cricotopus (C.) sp</i>	+
01320	<i>Hydra sp</i>	81	82121	<i>Thienemanniella lobapodema</i>	4
01801	<i>Turbellaria</i>	6 +	83040	<i>Dicrotendipes neomodestus</i>	3
03360	<i>Plumatella sp</i>	12	83840	<i>Microtendipes pedellus group</i>	19
03600	<i>Oligochaeta</i>	5 +	84060	<i>Parachironomus pectinatellae</i>	3
06201	<i>Hyalella azteca</i>	+	84210	<i>Paratendipes albimanus or P. duplicatus</i>	+
08260	<i>Orconectes (Crockerinus) sanbornii sanbornii</i>	+	84300	<i>Phaenopsectra obediens group</i>	3
11020	<i>Acerpenna pygmaea</i>	7	84450	<i>Polypedilum (Uresipedilum) flavum</i>	15
11120	<i>Baetis flavistriga</i>	+	84460	<i>Polypedilum (P.) fallax group</i>	3
11130	<i>Baetis intercalaris</i>	23 +	84490	<i>Polypedilum (Cerobregma) ontario</i>	3
12200	<i>Isonychia sp</i>	2 +	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	3 +
13400	<i>Stenacron sp</i>	543 +	85625	<i>Rheotanytarsus sp</i>	+
13521	<i>Stenonema femoratum</i>	+	85800	<i>Tanytarsus sp</i>	22
13561	<i>Maccaffertium pulchellum</i>	15	85802	<i>Tanytarsus curticornis</i>	6
13590	<i>Maccaffertium vicarium</i>	4	85814	<i>Tanytarsus glabrescens group</i>	31
14950	<i>Leptophlebia sp or Paraleptophlebia sp</i>	2	85840	<i>Tanytarsus sepp</i>	6
18600	<i>Ephemera sp</i>	+	86100	<i>Chrysops sp</i>	+
18750	<i>Hexagenia limbata</i>	+	86200	<i>Tabanus sp</i>	+
21200	<i>Calopteryx sp</i>	+	87540	<i>Hemerodromia sp</i>	8
22300	<i>Argia sp</i>	6	93900	<i>Elimia sp</i>	38 +
23909	<i>Boyeria vinosa</i>	+	96900	<i>Ferrissia sp</i>	4
47600	<i>Sialis sp</i>	+	98600	<i>Sphaerium sp</i>	2 +
50315	<i>Chimarra obscura</i>	+	99100	<i>Pyganodon grandis</i>	+
51400	<i>Nyctiophylax sp</i>	1	99440	<i>Fusconaia flava</i>	+
52200	<i>Cheumatopsyche sp</i>	256 +	99820	<i>Villosa iris iris</i>	+
52530	<i>Hydropsyche depravata group</i>	+	99860	<i>Lampsilis radiata luteola</i>	+
57900	<i>Pycnopsyche sp</i>	+			
59110	<i>Ceraclea ancylus</i>	+	No. Quantitative Taxa: 39		Total Taxa: 70
63300	<i>Hydroporini</i>	+	No. Qualitative Taxa: 42		ICI: 44
67750	<i>Sperchopsis tessellatus</i>	+	Number of Organisms: 1390		Qual EPT: 12
68075	<i>Psephenus herricki</i>	+			
68130	<i>Helichus sp</i>	+			
68601	<i>Ancyronyx variegata</i>	2			
68901	<i>Macronychus glabratus</i>	7 +			
69400	<i>Stenelmis sp</i>	+			
71100	<i>Hexatoma sp</i>	+			
77110	<i>Ablabesmyia annulata</i>	+			
77115	<i>Ablabesmyia janta</i>	3			
77500	<i>Conchapelopia sp</i>	46 +			
77740	<i>Hayesomyia senata</i>	37			
77800	<i>Helopelopia sp</i>	3			
78401	<i>Natarsia species A (sensu Roback, 1978)</i>	+			
78450	<i>Nilotanypus fimbriatus</i>	19			
80370	<i>Corynoneura lobata</i>	137			

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: East Branch Black River
Parsons Rd.

Collection Date: 09/03/1997 River Code: 20-010 RM: 11.30

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00401	<i>Spongillidae</i>	+	82820	<i>Cryptochironomus sp</i>	+
01320	<i>Hydra sp</i>	8 +	83040	<i>Dicrotendipes neomodestus</i>	+
03360	<i>Plumatella sp</i>	78 +	83310	<i>Glyptotendipes (Heynotendipes) amplus</i>	72
03451	<i>Urnatella gracilis</i>	81	84450	<i>Polypedilum (Uresipedilum) flavum</i>	502 +
03600	<i>Oligochaeta</i>	96 +	84750	<i>Stictochironomus sp</i>	+
05800	<i>Caecidotea sp</i>	+	84888	<i>Xenochironomus xenolabis</i>	+
08260	<i>Orconectes (Crockerinus) sanbornii sanbornii</i>	+	85625	<i>Rheotanytarsus sp</i>	5096 +
11020	<i>Acerpenna pygmaea</i>	10	85814	<i>Tanytarsus glabrescens group</i>	1723 +
11120	<i>Baetis flavistriga</i>	829 +	87540	<i>Hemerodromia sp</i>	108
11130	<i>Baetis intercalaris</i>	4 +	93900	<i>Elimia sp</i>	1
12200	<i>Isonychia sp</i>	4 +	95100	<i>Physella sp</i>	+
13000	<i>Leucrocuta sp</i>	6	96900	<i>Ferrissia sp</i>	1 +
13400	<i>Stenacron sp</i>	529 +	98600	<i>Sphaerium sp</i>	+
13521	<i>Stenonema femoratum</i>	11 +	99100	<i>Pyganodon grandis</i>	+
13561	<i>Maccaffertium pulchellum</i>	245 +	99860	<i>Lampsilis radiata luteola</i>	+
17200	<i>Caenis sp</i>	185 +			
18600	<i>Ephemera sp</i>	+	No. Quantitative Taxa: 36		Total Taxa: 59
22300	<i>Argia sp</i>	9 +	No. Qualitative Taxa: 43		ICI: 48
47600	<i>Sialis sp</i>	+	Number of Organisms: 11220		Qual EPT: 14
48410	<i>Corydalus cornutus</i>	10 +			
51001	<i>Polycentropodidae</i>	+			
52200	<i>Cheumatopsyche sp</i>	873 +			
52430	<i>Ceratopsyche morosa group</i>	211 +			
52530	<i>Hydropsyche depravata group</i>	29			
52540	<i>Hydropsyche dicantha</i>	44 +			
52590	<i>Hydropsyche venularis</i>	22			
58505	<i>Helicopsyche borealis</i>	+			
59110	<i>Ceraclea ancylus</i>	+			
59140	<i>Ceraclea maculata</i>	38			
59500	<i>Oecetis sp</i>	1			
60900	<i>Peltodytes sp</i>	+			
65800	<i>Berosus sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68601	<i>Ancyronyx variegata</i>	1			
68700	<i>Dubiraphia sp</i>	+			
68901	<i>Macronychus glabratus</i>	8			
69400	<i>Stenelmis sp</i>	2 +			
77500	<i>Conchapelopia sp</i>	215			
77800	<i>Helopelopia sp</i>	+			
78650	<i>Procladius sp</i>	+			
80370	<i>Corynoneura lobata</i>	64			
80420	<i>Cricotopus (C.) bicinctus</i>	72			
82141	<i>Thienemanniella xena</i>	32			

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: East Branch Black River

Collection Date: 09/02/1997 River Code: 20-010 RM: 10.80

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	+	78750	<i>Rheopelopia paramaculipennis</i>	26
01801	<i>Turbellaria</i>	10 +	80370	<i>Corynoneura lobata</i>	40
03360	<i>Plumatella sp</i>	2 +	80420	<i>Cricotopus (C.) bicinctus</i>	51 +
03600	<i>Oligochaeta</i>	281 +	81250	<i>Nanocladius (N.) minimus</i>	51
04664	<i>Helobdella stagnalis</i>	+	81633	<i>Parakiefferiella n.sp 5</i>	26
04685	<i>Placobdella ornata</i>	+	81690	<i>Paratrichocladius sp</i>	26
05800	<i>Caecidotea sp</i>	+	82121	<i>Thienemanniella lobapodema</i>	8
06201	<i>Hyaella azteca</i>	1 +	83040	<i>Dicrotendipes neomodestus</i>	359 +
06700	<i>Crangonyx sp</i>	+	83840	<i>Microtendipes pedellus group</i>	51
08260	<i>Orconectes (Crockerinus) sanbornii sanbornii</i>	+	83900	<i>Nilothauma sp</i>	51
11130	<i>Baetis intercalaris</i>	103 +	84060	<i>Parachironomus pectinatellae</i>	26
12200	<i>Isonychia sp</i>	+	84300	<i>Phaenopsectra obediens group</i>	+
13400	<i>Stenacron sp</i>	345 +	84450	<i>Polypedilum (Uresipedilum) flavum</i>	103 +
13521	<i>Stenonema femoratum</i>	19 +	84470	<i>Polypedilum (P.) illinoense</i>	+
13561	<i>Maccaffertium pulchellum</i>	52 +	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	26 +
17200	<i>Caenis sp</i>	193 +	85625	<i>Rheotanytarsus sp</i>	898
18600	<i>Ephemera sp</i>	5 +	85800	<i>Tanytarsus sp</i>	26
21200	<i>Calopteryx sp</i>	+	85814	<i>Tanytarsus glabrescens group</i>	462 +
22001	<i>Coenagrionidae</i>	+	87540	<i>Hemerodromia sp</i>	1
22300	<i>Argia sp</i>	21 +	93900	<i>Elimia sp</i>	1 +
23909	<i>Boyeria vinosa</i>	+	95100	<i>Physella sp</i>	8 +
43300	<i>Ranatra sp</i>	+	96900	<i>Ferrissia sp</i>	9
48410	<i>Corydalus cornutus</i>	+	98600	<i>Sphaerium sp</i>	+
51206	<i>Cyrnellus fraternus</i>	8			
52200	<i>Cheumatopsyche sp</i>	215 +	No. Quantitative Taxa: 47		Total Taxa: 67
52430	<i>Ceratopsyche morosa group</i>	59 +	No. Qualitative Taxa: 47		ICI: 44
52530	<i>Hydropsyche depravata group</i>	21 +	Number of Organisms: 3940		Qual EPT: 14
52540	<i>Hydropsyche dicantha</i>	61 +			
52590	<i>Hydropsyche venularis</i>	15			
53800	<i>Hydroptila sp</i>	10			
57900	<i>Pycnopsyche sp</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
59110	<i>Ceraclea ancylus</i>	+			
65800	<i>Berosus sp</i>	45 +			
68601	<i>Ancyronyx variegata</i>	+			
68708	<i>Dubiraphia vittata group</i>	23 +			
68901	<i>Macronychus glabratus</i>	29 +			
69400	<i>Stenelmis sp</i>	18 +			
74100	<i>Simulium sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	26			
77500	<i>Conchapelopia sp</i>	51			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	26 +			
77800	<i>Helopelopia sp</i>	26			
78140	<i>Labrundinia pilosella</i>	26			

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: East Branch Black River
 adj. Robson Rd.

Collection Date: 09/03/1997 River Code: 20-010 RM: 6.00

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	57 +	78450	<i>Nilotanypus fimbriatus</i>	43
03121	<i>Paludicella articulata</i>	+	78750	<i>Rheopelopia paramaculipennis</i>	+
03360	<i>Plumatella sp</i>	30 +	80370	<i>Corynoneura lobata</i>	224
03600	<i>Oligochaeta</i>	80	80410	<i>Cricotopus (C.) sp</i>	+
06201	<i>Hyaella azteca</i>	+	82121	<i>Thienemanniella lobapodema</i>	32
08260	<i>Orconectes (Crockerinus) sanbornii sanbornii</i>	+	82730	<i>Chironomus (C.) decorus group</i>	+
08601	<i>Hydrachnidia</i>	+	82820	<i>Cryptochironomus sp</i>	+
11120	<i>Baetis flavistriga</i>	49 +	83040	<i>Dicrotendipes neomodestus</i>	+
11130	<i>Baetis intercalaris</i>	737 +	83840	<i>Microtendipes pedellus group</i>	49
12200	<i>Isonychia sp</i>	20 +	84300	<i>Phaenopsectra obediens group</i>	+
13400	<i>Stenacron sp</i>	+	84450	<i>Polypedilum (Uresipedilum) flavum</i>	690 +
13561	<i>Maccaffertium pulchellum</i>	1036 +	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	49 +
16700	<i>Tricorythodes sp</i>	+	84612	<i>Saetheria tylus</i>	+
17200	<i>Caenis sp</i>	+	85625	<i>Rheotanytarsus sp</i>	4043 +
18100	<i>Anthopotamus sp</i>	+	85814	<i>Tanytarsus glabrescens group</i>	789
21200	<i>Calopteryx sp</i>	+	86100	<i>Chrysops sp</i>	+
22001	<i>Coenagrionidae</i>	+	87540	<i>Hemerodromia sp</i>	65 +
22300	<i>Argia sp</i>	+	95100	<i>Physella sp</i>	+
23909	<i>Boyeria vinosa</i>	+	96900	<i>Ferrissia sp</i>	3
26700	<i>Macromia sp</i>	+	98600	<i>Sphaerium sp</i>	1 +
47600	<i>Sialis sp</i>	+			
48410	<i>Corydalus cornutus</i>	8	No. Quantitative Taxa: 29		Total Taxa: 64
50315	<i>Chimarra obscura</i>	48	No. Qualitative Taxa: 54		ICI: 46
52200	<i>Cheumatopsyche sp</i>	1907 +	Number of Organisms: 11795		Qual EPT: 16
52430	<i>Ceratopsyche morosa group</i>	1017 +			
52530	<i>Hydropsyche depravata group</i>	148 +			
52540	<i>Hydropsyche dicantha</i>	64 +			
52590	<i>Hydropsyche venularis</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
59100	<i>Ceraclea sp</i>	2			
59110	<i>Ceraclea ancylus</i>	+			
59120	<i>Ceraclea flava complex</i>	+			
60900	<i>Peltodytes sp</i>	+			
65800	<i>Berosus sp</i>	+			
66500	<i>Enochrus sp</i>	+			
67500	<i>Laccobius sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68130	<i>Helichus sp</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
68901	<i>Macronychus glabratus</i>	51 +			
69400	<i>Stenelmis sp</i>	159 +			
77500	<i>Conchapelopia sp</i>	345 +			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	49 +			
77800	<i>Helopelopia sp</i>	+			

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: East Branch Black River
 dst. Willow Creek

Collection Date: 09/03/1997 River Code: 20-010 RM: 5.20

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	752	69400	<i>Stenelmis sp</i>	13 +
01801	<i>Turbellaria</i>	43 +	77500	<i>Conchapelopia sp</i>	375
03121	<i>Paludicella articulata</i>	1	77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	94 +
03360	<i>Plumatella sp</i>	41 +	77800	<i>Helopelopia sp</i>	469 +
03600	<i>Oligochaeta</i>	64 +	78750	<i>Rheopelopia paramaculipennis</i>	94 +
05800	<i>Caecidotea sp</i>	+	81250	<i>Nanocladius (N.) minimus</i>	94
06201	<i>Hyaella azteca</i>	+	81270	<i>Nanocladius (N.) spinipennis</i>	94
06700	<i>Crangonyx sp</i>	+	83040	<i>Dicrotendipes neomodestus</i>	188 +
08240	<i>Orconectes (Crockerinus) propinquus</i>	+	83050	<i>Dicrotendipes lucifer</i>	188
11120	<i>Baetis flavistriga</i>	+	83300	<i>Glyptotendipes (G.) sp</i>	94 +
11130	<i>Baetis intercalaris</i>	171 +	83310	<i>Glyptotendipes (Heynotendipes) amplus</i>	188
12200	<i>Isonychia sp</i>	+	83840	<i>Microtendipes pedellus group</i>	+
13400	<i>Stenacron sp</i>	416 +	84060	<i>Parachironomus pectinatellae</i>	94
13521	<i>Stenonema femoratum</i>	9 +	84450	<i>Polypedilum (Uresipedilum) flavum</i>	188 +
13561	<i>Maccaffertium pulchellum</i>	1376	85625	<i>Rheotanytarsus sp</i>	4314 +
16700	<i>Tricorythodes sp</i>	4	85814	<i>Tanytarsus glabrescens group</i>	2720
17200	<i>Caenis sp</i>	219 +	85840	<i>Tanytarsus sepp</i>	281
18100	<i>Anthopotamus sp</i>	1	87540	<i>Hemerodromia sp</i>	59
18600	<i>Ephemera sp</i>	+	95100	<i>Physella sp</i>	32 +
22001	<i>Coenagrionidae</i>	+	98600	<i>Sphaerium sp</i>	+
22300	<i>Argia sp</i>	44			
26715	<i>Macromia taeniolata</i>	+	No. Quantitative Taxa: 46		Total Taxa: 64
27400	<i>Neurocordulia sp</i>	+	No. Qualitative Taxa: 45		ICI: 48
47600	<i>Sialis sp</i>	1 +	Number of Organisms: 14297		Qual EPT: 18
48410	<i>Corydalus cornutus</i>	+			
50315	<i>Chimarra obscura</i>	+			
51400	<i>Nyctiophylax sp</i>	+			
51600	<i>Polycentropus sp</i>	8 +			
52200	<i>Cheumatopsyche sp</i>	760 +			
52430	<i>Ceratopsyche morosa group</i>	610 +			
52530	<i>Hydropsyche depravata group</i>	72 +			
52540	<i>Hydropsyche dicantha</i>	43 +			
52590	<i>Hydropsyche venularis</i>	22			
53800	<i>Hydroptila sp</i>	1			
58505	<i>Helicopsyche borealis</i>	1 +			
59110	<i>Ceraclea ancyclus</i>	+			
59120	<i>Ceraclea flava complex</i>	+			
59140	<i>Ceraclea maculata</i>	35 +			
59970	<i>Petrophila sp</i>	+			
65800	<i>Berosus sp</i>	1			
68075	<i>Psephenus herricki</i>	1 +			
68601	<i>Ancyronyx variegata</i>	1			
68708	<i>Dubiraphia vittata group</i>	17 +			
68901	<i>Macronychus glabratus</i>	4 +			

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: East Branch Black River
 Fuller Rd.

Collection Date: 09/03/1997 River Code: 20-010 RM: 3.00

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	11 +	84450	<i>Polypedilum (Uresipedilum) flavum</i>	510 +
03360	<i>Plumatella sp</i>	47	84470	<i>Polypedilum (P.) illinoense</i>	+
03600	<i>Oligochaeta</i>	128	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+
05800	<i>Caecidotea sp</i>	+	85625	<i>Rheotanytarsus sp</i>	5670 +
06201	<i>Hyaella azteca</i>	+	85814	<i>Tanytarsus glabrescens group</i>	637
06700	<i>Crangonyx sp</i>	+	87540	<i>Hemerodromia sp</i>	24
08601	<i>Hydrachnidia</i>	+	95100	<i>Physella sp</i>	+
11120	<i>Baetis flavistriga</i>	13	96900	<i>Ferrissia sp</i>	+
11130	<i>Baetis intercalaris</i>	1571 +	98600	<i>Sphaerium sp</i>	1 +
11670	<i>Proclaeon viridoculare</i>	+			
12200	<i>Isonychia sp</i>	8	No. Quantitative Taxa: 24		Total Taxa: 52
13400	<i>Stenacron sp</i>	+	No. Qualitative Taxa: 38		ICI: 44
13521	<i>Stenonema femoratum</i>	+	Number of Organisms: 13039		Qual EPT: 13
13561	<i>Maccaffertium pulchellum</i>	1106 +			
16700	<i>Tricorythodes sp</i>	+			
17200	<i>Caenis sp</i>	+			
22300	<i>Argia sp</i>	+			
45100	<i>Palmacorixa sp</i>	+			
45300	<i>Sigara sp</i>	+			
48410	<i>Corydalus cornutus</i>	1			
50315	<i>Chimarra obscura</i>	3			
51400	<i>Nyctiophylax sp</i>	+			
51600	<i>Polycentropus sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	622 +			
52430	<i>Ceratopsyche morosa group</i>	2156 +			
52530	<i>Hydropsyche depravata group</i>	333			
52540	<i>Hydropsyche dicantha</i>	29			
57400	<i>Neophylax sp</i>	+			
59100	<i>Ceraclea sp</i>	9			
59110	<i>Ceraclea ancylus</i>	+			
65800	<i>Berosus sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
68901	<i>Macronychus glabratus</i>	5 +			
69400	<i>Stenelmis sp</i>	18 +			
74100	<i>Simulium sp</i>	9			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	64			
77800	<i>Helopelopia sp</i>	+			
78650	<i>Procladius sp</i>	+			
80430	<i>Cricotopus (C.) tremulus group</i>	+			
81231	<i>Nanocladius (N.) crassicornus or N. (N.) "rectinervis"</i>	64			
82820	<i>Cryptochironomus sp</i>	+			
84300	<i>Phaenopsectra obediens group</i>	+			

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: East Branch Black River
at mouth

Collection Date: 09/03/1997 River Code: 20-010 RM: 0.10

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	84	83900	<i>Nilothauma sp</i>	31
01801	<i>Turbellaria</i>	15 +	84450	<i>Polypedilum (Uresipedilum) flavum</i>	590 +
03360	<i>Plumatella sp</i>	2 +	84460	<i>Polypedilum (P.) fallax group</i>	+
03600	<i>Oligochaeta</i>	8 +	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	62 +
04935	<i>Erpobdella punctata punctata</i>	+	85625	<i>Rheotanytarsus sp</i>	807 +
04964	<i>Mooreobdella microstoma</i>	+	85814	<i>Tanytarsus glabrescens group</i>	745
05800	<i>Caecidotea sp</i>	24 +	87540	<i>Hemerodromia sp</i>	19
06201	<i>Hyalella azteca</i>	+	96900	<i>Ferrissia sp</i>	24 +
06700	<i>Crangonyx sp</i>	1	98600	<i>Sphaerium sp</i>	2 +
08601	<i>Hydrachnidia</i>	8			
11130	<i>Baetis intercalaris</i>	14 +	No. Quantitative Taxa: 38		Total Taxa: 53
13400	<i>Stenacron sp</i>	122 +	No. Qualitative Taxa: 37		ICI: 46
13521	<i>Stenonema femoratum</i>	4 +	Number of Organisms: 3780		Qual EPT: 12
13561	<i>Maccaffertium pulchellum</i>	62 +			
16700	<i>Tricorythodes sp</i>	1			
17200	<i>Caenis sp</i>	75 +			
18600	<i>Ephemera sp</i>	+			
22300	<i>Argia sp</i>	2 +			
23909	<i>Boyeria vinosa</i>	+			
47600	<i>Sialis sp</i>	+			
48410	<i>Corydalus cornutus</i>	+			
51600	<i>Polycentropus sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	466 +			
52430	<i>Ceratopsyche morosa group</i>	46 +			
52530	<i>Hydropsyche depravata group</i>	81 +			
52540	<i>Hydropsyche dicantha</i>	56 +			
53800	<i>Hydroptila sp</i>	8			
59110	<i>Ceraclaea ancylus</i>	+			
65800	<i>Berosus sp</i>	+			
68601	<i>Ancyronyx variegata</i>	1			
68708	<i>Dubiraphia vittata group</i>	+			
68901	<i>Macronychus glabratus</i>	1			
69400	<i>Stenelmis sp</i>	+			
74100	<i>Simulium sp</i>	+			
77500	<i>Conchapelopia sp</i>	31 +			
77740	<i>Hayesomyia senata</i>	93 +			
77800	<i>Helopelopia sp</i>	31 +			
78750	<i>Rheopelopia paramaculipennis</i>	62			
80370	<i>Corynoneura lobata</i>	16			
80430	<i>Cricotopus (C.) tremulus group</i>	93			
81201	<i>Nanocladius (N.) sp</i>	31			
82820	<i>Cryptochironomus sp</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	31			
83050	<i>Dicrotendipes lucifer</i>	31			

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: East Fork East Branch Black River
Lodi City Park

Collection Date: 09/02/1997 River Code: 20-014 RM: 2.70

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
06810	<i>Gammarus fasciatus</i>	+			
08260	<i>Orconectes (Crockerinus) sanbornii sanbornii</i>	+			
11120	<i>Baetis flavistriga</i>	+			
11130	<i>Baetis intercalaris</i>	+			
11430	<i>Dipheter hageni</i>	+			
13400	<i>Stenacron sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
13590	<i>Maccaffertium vicarium</i>	+			
17200	<i>Caenis sp</i>	+			
21200	<i>Calopteryx sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
33100	<i>Leuctra sp</i>	+			
47600	<i>Sialis sp</i>	+			
50301	<i>Chimarra aterrima</i>	+			
51600	<i>Polycentropus sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
59001	<i>Leptoceridae</i>	+			
63300	<i>Hydroporini</i>	+			
68075	<i>Psephenus herricki</i>	+			
69400	<i>Stenelmis sp</i>	+			
71100	<i>Hexatoma sp</i>	+			
71900	<i>Tipula sp</i>	+			
77500	<i>Conchapelopia sp</i>	+			
77800	<i>Helopelopia sp</i>	+			
78450	<i>Nilotanytus fimbriatus</i>	+			
81650	<i>Parametriocnemus sp</i>	+			
83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84480	<i>Polypedilum (P.) laetum group</i>	+			
84750	<i>Stictochironomus sp</i>	+			
85625	<i>Rheotanytarsus sp</i>	+			
85802	<i>Tanytarsus curticornis</i>	+			
94400	<i>Fossaria sp</i>	+			
95100	<i>Physella sp</i>	+			

No. Quantitative Taxa: 0 Total Taxa: 37
 No. Qualitative Taxa: 37 ICI:
 Number of Organisms: 0 Qual EPT: 14

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: East Fork East Branch Black River
at Richmond Rd.

Collection Date: 09/02/1997 River Code: 20-014 RM: 0.10

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
06810	<i>Gammarus fasciatus</i>	+			
08260	<i>Orconectes (Crockerinus) sanbornii sanbornii</i>	+			
11130	<i>Baetis intercalaris</i>	+			
13400	<i>Stenacron sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
17200	<i>Caenis sp</i>	+			
18600	<i>Ephemera sp</i>	+			
21200	<i>Calopteryx sp</i>	+			
22300	<i>Argia sp</i>	+			
23909	<i>Boyeria vinosa</i>	+			
47600	<i>Sialis sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
63300	<i>Hydropsorini</i>	+			
65800	<i>Berosus sp</i>	+			
67500	<i>Laccobius sp</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
69400	<i>Stenelmis sp</i>	+			
71100	<i>Hexatoma sp</i>	+			
72700	<i>Anopheles sp</i>	+			
74100	<i>Simulium sp</i>	+			
74501	<i>Ceratopogonidae</i>	+			
77500	<i>Conchapelopia sp</i>	+			
80420	<i>Cricotopus (C.) bicinctus</i>	+			
81650	<i>Parametriocnemus sp</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
84460	<i>Polypedilum (P.) fallax group</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84750	<i>Stictochironomus sp</i>	+			
84960	<i>Pseudochironomus sp</i>	+			
85500	<i>Paratanyarsus sp</i>	+			
86100	<i>Chrysops sp</i>	+			
87400	<i>Stratiomys sp</i>	+			
87540	<i>Hemerodromia sp</i>	+			
95100	<i>Physella sp</i>	+			
96900	<i>Ferrissia sp</i>	+			

No. Quantitative Taxa: 0 Total Taxa: 36
 No. Qualitative Taxa: 36 ICI:
 Number of Organisms: 0 Qual EPT: 6

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Willow Creek

Collection Date: 08/28/1997 River Code: 20-018 RM: 6.10

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03600	<i>Oligochaeta</i>	+			
04664	<i>Helobdella stagnalis</i>	+			
04935	<i>Erpobdella punctata punctata</i>	+			
06700	<i>Crangonyx sp</i>	+			
07820	<i>Cambarus (Cambarus) sp A</i>	+			
28955	<i>Plathemis lydia</i>	+			
45900	<i>Notonecta sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
67000	<i>Helophorus sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
86100	<i>Chrysops sp</i>	+			
92613	<i>Cipangopaludina chinensis malleata</i>	+			
96264	<i>Planorbella (Pierosoma) pilsbryi</i>	+			
98200	<i>Pisidium sp</i>	+			
98600	<i>Sphaerium sp</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 16
No. Qualitative Taxa: 16	ICI:
Number of Organisms: 0	Qual EPT: 0

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Willow Creek

Collection Date: 08/28/1997 River Code: 20-018 RM: 4.90

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03600	<i>Oligochaeta</i>	+			
08260	<i>Orconectes (Crockerinus) sanbornii sanbornii</i>	+			
13521	<i>Stenonema femoratum</i>	+			
22001	<i>Coenagrionidae</i>	+			
28955	<i>Plathemis lydia</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
77500	<i>Conchapelopia sp</i>	+			
82730	<i>Chironomus (C.) decorus group</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84460	<i>Polypedilum (P.) fallax group</i>	+			
84750	<i>Stictochironomus sp</i>	+			
85500	<i>Paratanytarsus sp</i>	+			
85625	<i>Rheotanytarsus sp</i>	+			
95100	<i>Physella sp</i>	+			
98600	<i>Sphaerium sp</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 19
No. Qualitative Taxa: 19	ICI:
Number of Organisms: 0	Qual EPT: 2

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Willow Creek
Durkee Rd.

Collection Date: 08/28/1997 River Code: 20-018 RM: 2.90

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
05800	<i>Caecidotea sp</i>	+			
06201	<i>Hyaella azteca</i>	+			
08260	<i>Orconectes (Crockerinus) sanbornii sanbornii</i>	+			
11120	<i>Baetis flavistriga</i>	+			
11130	<i>Baetis intercalaris</i>	+			
13400	<i>Stenacron sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
17200	<i>Caenis sp</i>	+			
21200	<i>Calopteryx sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
23600	<i>Aeshna sp</i>	+			
47600	<i>Sialis sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
67500	<i>Laccobius sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
69400	<i>Stenelmis sp</i>	+			
71900	<i>Tipula sp</i>	+			
77500	<i>Conchapelopia sp</i>	+			
77800	<i>Helopelopia sp</i>	+			
78401	<i>Natarsia species A (sensu Roback, 1978)</i>	+			
80204	<i>Brillia flavifrons group</i>	+			
81650	<i>Parametriocnemus sp</i>	+			
82730	<i>Chironomus (C.) decorus group</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	+			
83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84750	<i>Stictochironomus sp</i>	+			
85500	<i>Paratanytarsus sp</i>	+			
95100	<i>Physella sp</i>	+			
98600	<i>Sphaerium sp</i>	+			

No. Quantitative Taxa: 0 Total Taxa: 38
 No. Qualitative Taxa: 38 ICI:
 Number of Organisms: 0 Qual EPT: 7

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: West Branch Black River
at mouth

Collection Date: 09/03/1997 River Code: 20-020 RM: 0.10

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	1			
01801	<i>Turbellaria</i>	4			
03360	<i>Plumatella sp</i>	+			
03600	<i>Oligochaeta</i>	48 +			
04935	<i>Erpobdella punctata punctata</i>	1 +			
08260	<i>Orconectes (Crockerinus) sanbornii sanbornii</i>	+			
08601	<i>Hydrachnidia</i>	8			
13400	<i>Stenacron sp</i>	6 +			
13561	<i>Maccaffertium pulchellum</i>	14 +			
16700	<i>Tricorythodes sp</i>	45			
17200	<i>Caenis sp</i>	36 +			
51600	<i>Polycentropus sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	155 +			
52430	<i>Ceratopsyche morosa group</i>	6			
52530	<i>Hydropsyche depravata group</i>	7			
52540	<i>Hydropsyche dicantha</i>	51 +			
59500	<i>Oecetis sp</i>	8			
65800	<i>Berosus sp</i>	2			
68601	<i>Ancyronyx variegata</i>	9			
69400	<i>Stenelmis sp</i>	11 +			
74501	<i>Ceratopogonidae</i>	8			
77500	<i>Conchapelopia sp</i>	213			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	298 +			
77800	<i>Helopelopia sp</i>	85 +			
78450	<i>Nilotanytus fimbriatus</i>	21			
78750	<i>Rheopelopia paramaculipennis</i>	21			
80430	<i>Cricotopus (C.) tremulus group</i>	21			
83040	<i>Dicrotendipes neomodestus</i>	128			
83050	<i>Dicrotendipes lucifer</i>	21			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	85 +			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	43 +			
84700	<i>Stenochironomus sp</i>	21			
85625	<i>Rheotanytarsus sp</i>	659 +			
85814	<i>Tanytarsus glabrescens group</i>	702			
85840	<i>Tanytarsus sepp</i>	43			
87540	<i>Hemerodromia sp</i>	27			
96900	<i>Ferrissia sp</i>	20			
98600	<i>Sphaerium sp</i>	2			

No. Quantitative Taxa: 35 Total Taxa: 38

No. Qualitative Taxa: 16 ICI: **38**

Number of Organisms: 2830 Qual EPT: 6

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: Plum Creek
 upst. St. Rt. 511 at park

Collection Date: 09/03/1997 River Code: 20-021 RM: 3.30

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	15	96120	<i>Menetus (Micromenetus) dilatatus</i>	+
01801	<i>Turbellaria</i>	23 +	96900	<i>Ferrissia sp</i>	+
03600	<i>Oligochaeta</i>	149	98200	<i>Pisidium sp</i>	+
04935	<i>Erpobdella punctata punctata</i>	1 +	98600	<i>Sphaerium sp</i>	+
05800	<i>Caecidotea sp</i>	3 +			
06700	<i>Crangonyx sp</i>	1 +	No. Quantitative Taxa: 28		Total Taxa: 48
08260	<i>Orconectes (Crockerinus) sanbornii sanbornii</i>	+	No. Qualitative Taxa: 32		ICI: 24
11120	<i>Baetis flavistriga</i>	1 +	Number of Organisms: 1081		Qual EPT: 6
13400	<i>Stenacron sp</i>	9 +			
13521	<i>Stenonema femoratum</i>	6 +			
17200	<i>Caenis sp</i>	+			
21200	<i>Calopteryx sp</i>	+			
22300	<i>Argia sp</i>	+			
47600	<i>Sialis sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
60900	<i>Peltodytes sp</i>	+			
63300	<i>Hydroporini</i>	+			
67500	<i>Laccobius sp</i>	+			
68025	<i>Ectopria sp</i>	+			
68700	<i>Dubiraphia sp</i>	1 +			
69400	<i>Stenelmis sp</i>	+			
77120	<i>Ablabesmyia mallochii</i>	8 +			
77500	<i>Conchapelopia sp</i>	16 +			
77800	<i>Helopelopia sp</i>	71			
78140	<i>Labrundinia pilosella</i>	8			
80370	<i>Corynoneura lobata</i>	37			
80410	<i>Cricotopus (C.) sp</i>	+			
81231	<i>Nanocladius (N.) crassicornus or N. (N.) "rectinervis"</i>	16			
83040	<i>Dicrotendipes neomodestus</i>	48			
83051	<i>Dicrotendipes simpsoni</i>	8			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	230 +			
84300	<i>Phaenopsectra obediens group</i>	8			
84315	<i>Phaenopsectra flavipes</i>	16			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	8 +			
84460	<i>Polypedilum (P.) fallax group</i>	40			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	79			
84750	<i>Stictochironomus sp</i>	+			
85500	<i>Paratanytarsus sp</i>	198			
85625	<i>Rheotanytarsus sp</i>	+			
85800	<i>Tanytarsus sp</i>	40			
85814	<i>Tanytarsus glabrescens group</i>	40			
86100	<i>Chrysops sp</i>	1			
95100	<i>Physella sp</i>	+			

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Plum Creek
upst. Oberlin WWTP

Collection Date: 09/03/1997 River Code: 20-021 RM: 2.90

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	6			
01801	<i>Turbellaria</i>	19			
03600	<i>Oligochaeta</i>	216			
05800	<i>Caecidotea sp</i>	5 +			
06700	<i>Crangonyx sp</i>	2			
11120	<i>Baetis flavistriga</i>	183			
11130	<i>Baetis intercalaris</i>	4			
13400	<i>Stenacron sp</i>	21 +			
13521	<i>Stenonema femoratum</i>	17 +			
21200	<i>Calopteryx sp</i>	11 +			
23909	<i>Boyeria vinosa</i>	+			
52200	<i>Cheumatopsyche sp</i>	46 +			
52430	<i>Ceratopsyche morosa group</i>	1			
52530	<i>Hydropsyche depravata group</i>	7 +			
69400	<i>Stenelmis sp</i>	4			
71900	<i>Tipula sp</i>	+			
74100	<i>Simulium sp</i>	+			
77500	<i>Conchapelopia sp</i>	27 +			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	8			
77800	<i>Helopelopia sp</i>	27			
78450	<i>Nilotanytus fimbriatus</i>	4			
80370	<i>Corynoneura lobata</i>	168			
81650	<i>Parametriocnemus sp</i>	30			
82141	<i>Thienemanniella xena</i>	97			
84300	<i>Phaenopsectra obediens group</i>	4			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	8 +			
84460	<i>Polypedilum (P.) fallax group</i>	11			
84470	<i>Polypedilum (P.) illinoense</i>	15			
84700	<i>Stenochironomus sp</i>	8			
85500	<i>Paratanytarsus sp</i>	4			
85625	<i>Rheotanytarsus sp</i>	91 +			
85800	<i>Tanytarsus sp</i>	23			
85814	<i>Tanytarsus glabrescens group</i>	15			
87540	<i>Hemerodromia sp</i>	47			
96120	<i>Menetus (Micromenetus) dilatatus</i>	1			
96900	<i>Ferrissia sp</i>	31 +			
98600	<i>Sphaerium sp</i>	1 +			

No. Quantitative Taxa: 34 Total Taxa: 37
 No. Qualitative Taxa: 14 ICI: **34**
 Number of Organisms: 1162 Qual EPT: 4

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Plum Creek
dst. US 20 Business

Collection Date: 09/04/1997 River Code: 20-021 RM: 0.80

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	5	86100	<i>Chrysops sp</i>	+
01801	<i>Turbellaria</i>	6	87540	<i>Hemerodromia sp</i>	5
03600	<i>Oligochaeta</i>	15	96900	<i>Ferrissia sp</i>	100 +
05800	<i>Caecidotea sp</i>	6 +	98600	<i>Sphaerium sp</i>	2 +
08260	<i>Orconectes (Crockerinus) sanbornii sanbornii</i>	+			
11120	<i>Baetis flavistriga</i>	46 +	No. Quantitative Taxa: 41		Total Taxa: 48
13400	<i>Stenacron sp</i>	85 +	No. Qualitative Taxa: 18		ICI: 44
13521	<i>Stenonema femoratum</i>	97 +	Number of Organisms: 1296		Qual EPT: 6
17200	<i>Caenis sp</i>	7			
21200	<i>Calopteryx sp</i>	2			
47600	<i>Sialis sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	38 +			
52430	<i>Ceratopsyche morosa group</i>	+			
52530	<i>Hydropsyche depravata group</i>	8 +			
53800	<i>Hydroptila sp</i>	4			
60900	<i>Peltodytes sp</i>	+			
69400	<i>Stenelmis sp</i>	11 +			
77120	<i>Ablabesmyia mallochi</i>	+			
77500	<i>Conchapelopia sp</i>	24			
77800	<i>Helopelopia sp</i>	16			
78140	<i>Labrundinia pilosella</i>	8			
78450	<i>Nilotanytus fimbriatus</i>	8			
80204	<i>Brillia flavifrons group</i>	8			
80370	<i>Corynoneura lobata</i>	264			
80410	<i>Cricotopus (C.) sp</i>	16			
80420	<i>Cricotopus (C.) bicinctus</i>	16			
80430	<i>Cricotopus (C.) tremulus group</i>	24			
81270	<i>Nanocladius (N.) spiniplenus</i>	24			
81631	<i>Parakiefferiella n.sp 1</i>	8			
81650	<i>Parametriocnemus sp</i>	8			
81690	<i>Paratrichocladus sp</i>	8			
82121	<i>Thienemanniella lobapodema</i>	8			
82820	<i>Cryptochironomus sp</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	16			
83840	<i>Microtendipes pedellus group</i>	8			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	55			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	8 +			
84460	<i>Polypedilum (P.) fallax group</i>	16			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	32			
85500	<i>Paratanytarsus sp</i>	126			
85625	<i>Rheotanytarsus sp</i>	39 +			
85800	<i>Tanytarsus sp</i>	32			
85814	<i>Tanytarsus glabrescens group</i>	79			
85840	<i>Tanytarsus sepp</i>	8			

Appendix Table 8. QHEI matrix for sites sampled in the
Black River basin, 1997.

WWH Attributes

MWH Attributes

Key
QHEI
Components

- No Channel or Recovered
- Bar/Cobble/Gravel Substrates
- Silt Free Substrates
- Good/Excellent Substrates
- Moderate/Poor Sinuosity
- Extensive/Moderate Cover
- Fast Current/Eddies
- Low-Normal Overall Embeddedness
- Max Depth > 40 cm
- Low-Normal Rifle Embeddedness

High Influence

Moderate Influence

River Mile	QHEI	Gradient (ft/mile)	Total WWH Attributes	Channelized or No Recovery Silt/Cluck Substrates	No Sinuosity Sparse/No Cover Max Depth < 40 cm (WD, HW)	Total H.L. MWH Attributes	Recovering Channel Heavy/Moderate Silt Cover Sand Substrates (Boaf) Handpan Substrate Origin Fair/Poor Development Low Sinuosity Only 1-2 Cover Types Intermittent and Poor Pools No Fast Current High/Med. Overall Embeddedness High/Med. Rifle Embeddedness No Rifle	Total M.L. MWH Attributes	(MWH HL+1)/(WWH+1) Ratio	(MWH ML+1)/(WWH+1) Ratio
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(20-001) Black River

Year: 1997

15.0	79.5	3.70	9			0		0	0.10	0.10
11.9	75.0	5.62	8			0		1	0.11	0.22
10.3	79.5	5.62	8			0		1	0.11	0.22
8.5	78.0	4.00	8			0		1	0.11	0.22
5.8	58.0	0.10	5			0		3	0.17	0.67
5.6	41.5	0.10	2			1		8	0.67	3.33
5.2	48.5	0.10	4			1		5	0.40	1.40
4.8	55.0	0.10	5			0		4	0.17	0.83
3.1	53.5	0.10	4			0		5	0.20	1.20
2.3	45.0	0.10	4			1		5	0.40	1.40
0.9	34.5	0.10	2			2		7	1.00	3.33
0.1	27.0	0.10	1			2		7	1.50	5.00

(20-002) French Creek

Year: 1997

6.1	73.5	17.24	7			0		2	0.13	0.38
3.2	71.0	6.85	7			0		4	0.13	0.63
1.0	66.5	5.21	7			0		4	0.13	0.63

(20-003) Beaver Creek

Year: 1997

7.0	60.5	33.33	7			1		2	0.25	0.50
4.6	58.0	11.11	6			1		5	0.29	1.00
2.8	49.5	12.82	4			1		5	0.40	1.40

(20-010) East Branch Black River

Year: 1997

40.5	62.5	8.47	6			0		4	0.14	0.71
32.5	57.5	1.55	4			0		4	0.20	1.00
18.9	63.5	2.98	7			0		4	0.13	0.63
11.3	74.0	12.82	8			0		1	0.11	0.22
10.9	71.5	11.63	9			0		1	0.10	0.20
6.0	56.0	8.33	4			2		3	0.60	1.20
5.5	75.5	2.44	8			0		1	0.11	0.22
3.0	62.0	13.51	7			1		1	0.25	0.38

WWH Attributes

MWH Attributes

Key
QHEI
Components

- No Channelization or Recovered
- Bankfull/Cobble/Gravel Substrates
- Silt Free Substrates
- Good/Excellent Substrates
- Moderate/High Sinuosity
- Extensive/Moderate Cover
- Fast Current/Eddies
- Low/Natural Overall Embeddedness
- Max Depth > 40 cm
- Low/Natural Riffle Embeddedness

High Influence

Moderate Influence

River Mile	QHEI	Gradient (ft/mile)	Total WWH Attributes	Channelized or No Recovery Silt/Cluck Substrates	No Sinuosity Sparse/No Cover Max Depth < 40 cm (WD, HW)	Total H.L. MWH Attributes	Recovering Channel Heavy/Moderate Silt Cover Sand Substrates (Boat)	Handspan Substrate Origin Fair/Poor Development	Low Sinuosity Only 1-2 Cover Types Intermittent and Poor Pools No Fast Current	High/Moderate Overall Embeddedness High/Moderate Riffle Embeddedness No Riffle	Total M.L. MWH Attributes	(QHEI+1)/(MWH+1) Ratio	(QHEI+1)/(MWH+1) Ratio
(20-014) East Fork East Branch Black River													
Year: 1997													
2.7	52.0	30.30	5	1	1	4	0.33	1.00					
2.1	76.5	29.41	8	0	0	4	0.11	0.56					
0.1	42.0	4.69	4	2	2	4	0.60	1.40					
(20-018) Willow Creek													
Year: 1997													
6.0	24.0	5.43	0	5	5	6	6.00	*. **					
4.9	55.0	8.26	5	0	0	5	0.17	1.00					
2.9	39.0	11.63	1	4	4	6	2.50	5.50					
(20-020) West Branch Black River													
Year: 1997													
1.2	47.5	7.14	3	2	2	4	0.75	1.75					
(20-021) Plum Creek													
Year: 1997													
3.3	73.0	9.43	7	0	0	3	0.13	0.50					
2.9	63.0	10.42	7	2	2	3	0.38	0.75					
1.6	80.5	7.14	8	0	0	2	0.11	0.33					