

ICI METRICS AND SCORES FOR CUYAHOGA RIVER SAMPLING LOCATIONS, JULY AND AUGUST 2008.

LOCATION	MONTH	DON	ICITL	LOWE	TON	UXMS	NAOM	AXRE	YEO	NDUC	AIOP	PEM	PER	PC	PE	PT	PER	PO	PE	PT	QU	PT			
RM7.00	JUL08	786.0	38		2,560	39	6	3	2	5	4	18	6	26.2	6	35.5	6	10.3	2	24.8	4	5.2	0	8	2
RM8.30	AUG08	749.0	38		4,128	25	4	3	2	3	4	12	4	10.2	2	77.2	6	5.7	2	5.2	6	1.1	6	7	2
RM10.10	AUG08	744.0	40		3,152	33	4	3	2	4	4	17	6	12.8	2	41.0	6	16.2	4	28.6	4	0.2	6	11	2
RM10.30	AUG08	744.0	40		3,649	26	4	4	2	4	4	12	4	29.4	6	45.8	6	11.4	2	12.3	6	2.6	4	10	2
RM10.75	AUG08	743.0	40		3,988	25	4	3	2	5	4	12	4	15.5	4	53.4	6	2.6	2	21.7	4	1.3	6	12	4
RM11.30	AUG08	730.0	40		2,603	27	4	3	2	5	4	12	4	36.5	6	42.3	6	2.9	2	16.4	6	2.6	4	9	2
RM12.10	AUG08	710.0	40		3,011	27	4	2	0	4	4	14	6	25.7	4	54.8	6	1.7	2	15.2	6	0.3	6	9	2
RM16.20	AUG08	696.0	40		1,944	22	2	2	0	7	6	10	4	28.7	6	58.8	6	3.2	2	8.9	6	0.9	6	10	2

TAXA COMPOSITION, NUMBER, AND PERCENT OF ORGANISMS COLLECTED IN THE HESTER-DENDY AND QUALITATIVE SAMPLE AT LOCATION CUYAHOGA RIVER (River Mile 7.00), JULY 2008.

TAXA	JULY			
	HESTER		QUAL	
	#	%	#	%
Turbellaria	4	0.16	4	3.42
Nemertea	1	0.04	--	--
Oligochaeta	86	3.36	4	3.42
Helobdella stagnalis	1	0.04	--	--
Erpobdella punctata punctata	5	0.20	--	--
Mooreobdella microstoma	4	0.16	2	1.71
Caecidotea	6	0.23	4	3.42
Gammarus	43	1.68	2	1.71
Orconectes	1	0.04	1	0.85
Baetis intercalaris	385	15.04	13	11.11
Maccaffertium integrum	--	--	1	0.85
Maccaffertium terminatum	266	10.39	11	9.40
Tricorythodes	19	0.74	--	--
Calopteryx	1	0.04	--	--
Hetaerina	--	--	2	1.71
Rhagovelia	--	--	1	0.85
Cheumatopsyche	319	12.46	9	7.69
Hydropsyche orris	306	11.95	3	2.56
Hydropsyche dicantha	16	0.63	--	--
Hydropsyche bidens	1	0.04	--	--
Ceratopsyche morosa	268	10.47	16	13.68
Ceratopsyche sparna	--	--	1	0.85
Nectopsyche candida	--	--	2	1.71
Ancyronyx variegata	38	1.48	1	0.85
Macronychus glabratus	20	0.78	3	2.56
Stenelmis	23	0.90	12	10.26
Nilotanypus fimbriatus	8	0.31	--	--
Thienemannimyia grp.	168	6.56	2	1.71
Thienemanniella xena	16	0.63	--	--
Cricotopus tremulus grp.	8	0.31	1	0.85
Cricotopus bicinctus grp.	--	--	6	5.13
Nanocladius				
crassicornus/rectinervis	16	0.63	--	--
Rheocricotopus robacki	8	0.31	--	--
Tvetenia discoloripes grp.	8	0.31	--	--
Cryptochironomus	--	--	1	0.85
Dicrotendipes neomodestus	--	--	1	0.85
Endochironomus nigricans	--	--	1	0.85
Microtendipes	8	0.31	--	--
Polypedilum fallax grp.	32	1.25	1	0.85
Polypedilum flavum	152	5.94	3	2.56
Polypedilum illinoense	16	0.63	--	--
Polypedilum scalaenum grp.	24	0.94	2	1.71
Paratanytarsus	16	0.63	--	--
Rheotanytarsus	224	8.75	--	--
Tanytarsus glabrescens grp.	16	0.63	--	--
Tanytarsus sepp	8	0.31	--	--
Simulium	18	0.70	4	3.42
Tipula	--	--	1	0.85
Hemerodromia	1	0.04	1	0.85
Ferrissia	--	--	1	0.85
TOTAL	2560	100.00	117	100.00
TOTAL TAXA	39		32	

TAXA COMPOSITION, NUMBER, AND PERCENT OF ORGANISMS COLLECTED IN THE HESTER-DENDY AND QUALITATIVE SAMPLE AT LOCATION CUYAHOGA RIVER (River Mile 8.30), AUGUST 2008.

TAXA	AUGUST			
	HESTER		QUAL	
	#	%	#	%
Turbellaria	6	0.15	--	--
Oligochaeta	32	0.78	1	1.39
Erpobdella punctata punctata	1	0.02	--	--
Mooreobdella microstoma	--	--	1	1.39
Caecidotea	--	--	2	2.78
Gammarus	3	0.07	6	8.33
Orconectes	1	0.02	1	1.39
Baetis intercalaris	236	5.72	8	11.11
Maccaffertium terminatum	150	3.63	7	9.72
Tricorythodes	33	0.80	1	1.39
Calopteryx	--	--	1	1.39
Enallagma	--	--	1	1.39
Cheumatopsyche	977	23.67	2	2.78
Hydropsyche orris	1878	45.49	--	--
Hydropsyche bidens	--	--	1	1.39
Ceratopsyche morosa	330	7.99	13	18.06
Nectopsyche candida	--	--	5	6.94
Ancyronyx variegata	36	0.87	3	4.17
Macronychus glabratus	36	0.87	1	1.39
Stenelmis	--	--	2	2.78
Thienemannimyia grp.	12	0.29	1	1.39
Thienemanniella similis	--	--	1	1.39
Cricotopus tremulus grp.	--	--	1	1.39
Cricotopus bicinctus grp.	--	--	1	1.39
Cricotopus trifascia grp.	--	--	2	2.78
Rheocricotopus robacki	4	0.10	--	--
Tvetenia discoloripes grp.	28	0.68	--	--
Cryptochironomus	--	--	1	1.39
Microtendipes	4	0.10	--	--
Phaenopsectra obediens	--	--	1	1.39
Polypedilum fallax grp.	4	0.10	--	--
Polypedilum flavum	108	2.62	3	4.17
Polypedilum illinoense	8	0.19	--	--
Polypedilum scalaenum grp.	4	0.10	2	2.78
Paratanytarsus	4	0.10	--	--
Rheotanytarsus	228	5.52	1	1.39
Tanytarsus sepp	4	0.10	--	--
simulium	1	0.02	2	2.78
TOTAL	4128	100.00	72	100.00
TOTAL TAXA	25		28	

TAXA COMPOSITION, NUMBER, AND PERCENT OF ORGANISMS COLLECTED IN THE HESTER-DENDY AND QUALITATIVE SAMPLE AT LOCATION CUYAHOGA RIVER (River Mile 10.10), AUGUST 2008.

TAXA	AUGUST			
	HESTER		QUAL	
	#	%	#	%
Porifera	--	--	1	0.83
Turbellaria	3	0.10	1	0.83
Plumatella	1	0.03	--	--
Oligochaeta	5	0.16	3	2.50
Mooreobdella microstoma	34	1.08	--	--
Caecidotea	32	1.02	5	4.17
Gammarus	4	0.13	3	2.50
Hydracarina	--	--	1	0.83
Baetis intercalaris	179	5.68	9	7.50
Maccaffertium terminatum	172	5.46	6	5.00
Tricorythodes	53	1.68	1	0.83
Hetaerina	--	--	2	1.67
Boyeria vinosa	--	--	1	0.83
Neureclipsis	--	--	3	2.50
Cheumatopsyche	853	27.06	2	1.67
Hydropsyche orris	201	6.38	11	9.17
Hydropsyche dicantha	--	--	2	1.67
Ceratopsyche morosa	235	7.46	15	12.50
Ceratopsyche sparna	2	0.06	2	1.67
Hydroptila	--	--	1	0.83
Nectopsyche candida	--	--	4	3.33
Ancyronyx variegata	38	1.21	4	3.33
Macronychus glabratus	3	0.10	6	5.00
Stenelmis	2	0.06	4	3.33
Paracymus	--	--	1	0.83
Thienemannimyia grp.	48	1.52	1	0.83
Thienemanniella similis	--	--	2	1.67
Cardiocladius	32	1.02	3	2.50
Cricotopus tremulus grp.	16	0.51	1	0.83
Cricotopus bicinctus grp.	--	--	1	0.83
Rheocricotopus robacki	16	0.51	--	--
Tvetenia discoloripes grp.	48	1.52	--	--
Chironomus	--	--	2	1.67
Cryptochironomus	--	--	5	4.17
Dicrotendipes neomodestus	16	0.51	--	--
Endochironomus nigricans	--	--	1	0.83
Glyptotendipes	16	0.51	1	0.83
Microtendipes	--	--	1	0.83
Parachironomus	16	0.51	--	--
Polypedilum flavum	512	16.24	1	0.83
Polypedilum illinoense	--	--	3	2.50
Polypedilum scalaenum grp.	16	0.51	1	0.83
Stenochironomus	16	0.51	--	--
Paratanytarsus	48	1.52	--	--
Rheotanytarsus	448	14.21	2	1.67
Tanytarsus glabrescens grp.	16	0.51	--	--
Simulium	36	1.14	5	4.17
Tipula	1	0.03	--	--
Hemerodromia	34	1.08	1	0.83
Muscidae	--	--	1	0.83
TOTAL	3152	100.00	120	100.00
TOTAL TAXA	33		40	

TAXA COMPOSITION, NUMBER, AND PERCENT OF ORGANISMS COLLECTED IN THE HESTER-DENDY AND QUALITATIVE SAMPLE AT LOCATION CUYAHOGA RIVER (River Mile 10.30), AUGUST 2008.

TAXA	AUGUST			
	HESTER		QUAL	
	#	%	#	%
Porifera	--	--	1	1.09
Turbellaria	38	1.04	--	--
Plumatella	--	--	1	1.09
Oligochaeta	64	1.75	5	5.43
Erpobdella punctata punctata	1	0.03	--	--
Caecidotea	--	--	4	4.35
Gammarus	7	0.19	4	4.35
Orconectes	--	--	1	1.09
Baetis intercalaris	614	16.83	10	10.87
Stenacron	--	--	1	1.09
Maccaffertium integrum	33	0.90	--	--
Maccaffertium terminatum	395	10.82	7	7.61
Tricorythodes	32	0.88	1	1.09
Caenis	--	--	1	1.09
Argia	--	--	1	1.09
Enallagma	--	--	3	3.26
Rhagovelia	--	--	1	1.09
Cheumatopsyche	1047	28.69	12	13.04
Hydropsyche orris	359	9.84	2	2.17
Ceratopsyche morosa	233	6.39	7	7.61
Ceratopsyche sparna	33	0.90	--	--
Nectopsyche candida	--	--	4	4.35
Ceraclea	--	--	1	1.09
Liodessus	--	--	1	1.09
Ancyronyx variegata	35	0.96	3	3.26
Macronychus glabratus	4	0.11	5	5.43
Procladius	--	--	2	2.17
Ablabesmyia mallochi	--	--	1	1.09
Thienemanimyia grp.	32	0.88	2	2.17
Thienemanniella similis	8	0.22	--	--
Cricotopus bicinctus grp.	24	0.66	2	2.17
Cricotopus sylvestris grp.	8	0.22	1	1.09
Rheocricotopus robacki	24	0.66	--	--
Tvetenia discoloripes grp.	32	0.88	--	--
Polypedilum flavum	168	4.60	--	--
Polypedilum illinoense	--	--	3	3.26
Polypedilum scalaenum grp.	8	0.22	1	1.09
Rheotanytarsus	408	11.18	--	--
Tanytarsus sepp	8	0.22	--	--
Simulium	2	0.05	1	1.09
Hemerodromia	32	0.88	--	--
Physa	--	--	2	2.17
Ferrissia	--	--	1	1.09
TOTAL	3649	100.00	92	100.00
TOTAL TAXA	26		32	

TAXA COMPOSITION, NUMBER, AND PERCENT OF ORGANISMS COLLECTED IN THE HESTER-DENDY AND QUALITATIVE SAMPLE AT LOCATION CUYAHOGA RIVER (River Mile 10.75), AUGUST 2008.

TAXA	AUGUST			
	HESTER		QUAL	
	#	%	#	%
Turbellaria	101	2.53	2	2.11
Oligochaeta	34	0.85	--	--
Mooreobdella microstoma	--	--	2	2.11
Caecidotea	--	--	1	1.05
Gammarus	--	--	4	4.21
Baetis intercalaris	461	11.56	8	8.42
Baetis flavistriga	--	--	2	2.11
Maccaffertium integrum	--	--	1	1.05
Maccaffertium terminatum	135	3.39	9	9.47
Tricorythodes	21	0.53	3	3.16
Hetaerina	--	--	2	2.11
Boyeria vinosa	--	--	3	3.16
Aeshna	--	--	1	1.05
Neureclipsis	--	--	1	1.05
Cheumatopsyche	1213	30.42	9	9.47
Hydropsyche depravata grp.	2	0.05	--	--
Hydropsyche orris	33	0.83	--	--
Hydropsyche dicantha	--	--	1	1.05
Ceratopsyche morosa	816	20.46	12	12.63
Ceratopsyche sparna	66	1.65	1	1.05
Hydroptila	--	--	3	3.16
Nectopsyche candida	--	--	5	5.26
Liodessus	--	--	1	1.05
Ancyronyx variegata	100	2.51	3	3.16
Macronychus glabratus	71	1.78	4	4.21
Stenelmis	102	2.56	--	--
Thienemannimyia grp.	120	3.01	--	--
Cardiocladius	--	--	2	2.11
Cricotopus tremulus grp.	8	0.20	--	--
Cricotopus bicinctus grp.	--	--	1	1.05
Cricotopus trifascia grp.	--	--	3	3.16
Rheocricotopus robacki	24	0.60	--	--
Tvetenia discoloripes grp.	16	0.40	--	--
Dicrotendipes neomodestus	--	--	1	1.05
Glyptotendipes	--	--	1	1.05
Microtendipes	8	0.20	--	--
Polypedilum fallax grp.	16	0.40	--	--
Polypedilum flavum	400	10.03	3	3.16
Polypedilum illinoense	--	--	2	2.11
Polypedilum scalaenum grp.	64	1.60	2	2.11
Rheotanytarsus	96	2.41	--	--
Tanytarsus glabrescens grp.	8	0.20	--	--
Anopheles	--	--	1	1.05
Simulium	72	1.81	1	1.05
Hemerodromia	1	0.03	--	--
TOTAL	3988	100.00	95	100.00
TOTAL TAXA	25		32	

TAXA COMPOSITION, NUMBER, AND PERCENT OF ORGANISMS COLLECTED IN THE HESTER-DENDY AND QUALITATIVE SAMPLE AT LOCATION CUYAHOGA RIVER (River Mile 11.30), AUGUST 2008.

TAXA	AUGUST			
	HESTER		QUAL	
	#	%	#	%
Turbellaria	20	0.77	2	1.47
Oligochaeta	56	2.15	6	4.41
Placobdella parasitica	--	--	1	0.74
Erpobdella punctata punctata	1	0.04	--	--
Mooreobdella microstoma	--	--	4	2.94
Gammarus	8	0.31	10	7.35
Orconectes	--	--	1	0.74
Hydracarina	--	--	1	0.74
Baetis intercalaris	404	15.52	9	6.62
Maccaffertium terminatum	544	20.90	7	5.15
Tricorythodes	1	0.04	3	2.21
Hetaerina	--	--	7	5.15
Boyeria vinosa	--	--	4	2.94
Rhagovelia	--	--	1	0.74
Neureclipsis	1	0.04	--	--
Cheumatopsyche	698	26.82	8	5.88
Hydropsyche orris	2	0.08	2	1.47
Hydropsyche dicantha	--	--	1	0.74
Ceratopsyche morosa	384	14.75	16	11.76
Ceratopsyche sparna	--	--	3	2.21
Hydroptila	16	0.61	--	--
Nectopsyche candida	--	--	8	5.88
Ancyronyx variegata	21	0.81	4	2.94
Dubiraphia	--	--	1	0.74
Macronychus glabratus	23	0.88	4	2.94
Stenelmis	5	0.19	7	5.15
Thienemannimyia grp.	60	2.31	3	2.21
Thienemanniella similis	--	--	1	0.74
Cardiocladius	--	--	7	5.15
Cricotopus trifascia grp.	--	--	1	0.74
Rheocricotopus robacki	12	0.46	--	--
Tvetenia discoloripes grp.	28	1.08	--	--
Cryptochironomus	--	--	1	0.74
Glyptotendipes	8	0.31	--	--
Microtendipes	12	0.46	--	--
Polypedilum fallax grp.	12	0.46	--	--
Polypedilum flavum	112	4.30	3	2.21
Polypedilum scalaenum grp.	68	2.61	1	0.74
Stenochironomus	12	0.46	--	--
Paratanytarsus	--	--	1	0.74
Rheotanytarsus	76	2.92	2	1.47
Anopheles	--	--	1	0.74
Simulium	3	0.12	4	2.94
Hemerodromia	16	0.61	--	--
Musculium	--	--	1	0.74
TOTAL	2603	100.00	136	100.00
TOTAL TAXA	27		35	

TAXA COMPOSITION, NUMBER, AND PERCENT OF ORGANISMS COLLECTED IN THE HESTER-DENDY AND QUALITATIVE SAMPLE AT LOCATION CUYAHOGA RIVER (River Mile 12.10), AUGUST 2008.

TAXA	AUGUST			
	HESTER		QUAL	
	#	%	#	%
Turbellaria	39	1.30	--	--
Oligochaeta	--	--	5	3.88
Mooreobdella microstoma	1	0.03	6	4.65
Gammarus	32	1.06	5	3.88
Orconectes	1	0.03	1	0.78
Baetis intercalaris	537	17.83	9	6.98
Maccaffertium integrum	--	--	1	0.78
Maccaffertium terminatum	238	7.90	10	7.75
Tricorythodes	--	--	2	1.55
Hetaerina	--	--	2	1.55
Argia	--	--	1	0.78
Boyeria vinosa	--	--	1	0.78
Cheumatopsyche	932	30.95	17	13.18
Hydropsyche depravata grp.	--	--	1	0.78
Hydropsyche orris	130	4.32	1	0.78
Ceratopsyche morosa	553	18.37	9	6.98
Ceratopsyche sparna	34	1.13	--	--
Nectopsyche candida	--	--	2	1.55
Ancyronyx variegata	42	1.39	5	3.88
Macronychus glabratus	33	1.10	6	4.65
Stenelmis	2	0.07	3	2.33
Procladius	--	--	1	0.78
Thienemanimyia grp.	88	2.92	1	0.78
Thienemanniella xena	--	--	1	0.78
Cardiocladius	--	--	3	2.33
Cricotopus bicinctus grp.	4	0.13	--	--
Cricotopus trifascia grp.	4	0.13	2	1.55
Rheocricotopus robacki	20	0.66	--	--
Tvetenia discoloripes grp.	20	0.66	1	0.78
Chironomus	--	--	2	1.55
Cryptochironomus	4	0.13	--	--
Dicrotendipes neomodestus	--	--	1	0.78
Microtendipes	8	0.27	1	0.78
Phaenopsectra obediens	--	--	1	0.78
Polypedilum fallax grp.	4	0.13	1	0.78
Polypedilum flavum	116	3.85	3	2.33
Polypedilum illinoense	--	--	7	5.43
Polypedilum scalaenum grp.	4	0.13	6	4.65
Stenochironomus	12	0.40	--	--
Rheotanytarsus	48	1.59	1	0.78
Tanytarsus glabrescens grp.	4	0.13	--	--
Tanytarsus sepp	--	--	1	0.78
Culex	--	--	1	0.78
Simulium	101	3.35	6	4.65
Physa	--	--	1	0.78
Ferrissia	--	--	1	0.78
TOTAL	3011	100.00	129	100.00
TOTAL TAXA	27		39	



TAXA COMPOSITION, NUMBER, AND PERCENT OF ORGANISMS COLLECTED IN THE HESTER-DENDY AND QUALITATIVE SAMPLE AT LOCATION CUYAHOGA RIVER (River Mile 16.20), AUGUST 2008.

TAXA	AUGUST			
	HESTER		QUAL	
	#	%	#	%
Turbellaria	3	0.15	5	3.38
Urnatella gracilis	--	--	1	0.68
Oligochaeta	--	--	2	1.35
Mooreobdella microstoma	--	--	2	1.35
Gammarus	--	--	4	2.70
Baetis intercalaris	424	21.81	17	11.49
Maccaffertium terminatum	134	6.89	10	6.76
Tricorythodes	--	--	3	2.03
Calopteryx	--	--	1	0.68
Hetaerina	--	--	2	1.35
Boyeria vinosa	--	--	6	4.05
Rhagovelia	--	--	1	0.68
Cheumatopsyche	184	9.47	5	3.38
Hydropsyche depravata grp.	35	1.80	6	4.05
Hydropsyche orris	283	14.56	5	3.38
Hydropsyche dicantha	89	4.58	1	0.68
Hydropsyche bidens	16	0.82	--	--
Ceratopsyche morosa	503	25.87	15	10.14
Ceratopsyche sparna	34	1.75	7	4.73
Nectopsyche candida	--	--	3	2.03
Ancyronyx variegata	1	0.05	1	0.68
Macronychus glabratus	6	0.31	11	7.43
Stenelmis	--	--	12	8.11
Cardiocladius	4	0.21	2	1.35
Cricotopus trifascia grp.	--	--	1	0.68
Nanocladius distinctus	--	--	1	0.68
Rheocricotopus robacki	2	0.10	--	--
Tvetenia discoloripes grp.	56	2.88	1	0.68
Chironomus	--	--	1	0.68
Microtendipes	--	--	4	2.70
Polypedilum fallax grp.	2	0.10	--	--
Polypedilum flavum	50	2.57	3	2.03
Polypedilum illinoense	16	0.82	--	--
Polypedilum scalaenum grp.	2	0.10	1	0.68
Stenochironomus	2	0.10	--	--
Paratanytarsus	--	--	1	0.68
Rheotanytarsus	62	3.19	2	1.35
Simulium	36	1.85	5	3.38
Ferrissia	--	--	2	1.35
Musculium	--	--	4	2.70
TOTAL	1944	100.00	148	100.00
TOTAL TAXA	22		35	