

NEORS - 2006 MACROINVERTEBRATE STUDY  
ICI METRICS AND SCORES

L	O	C	A	T	I	O	N	M	C	D	P	P	P	P	P	P	P	P	P	P	P	P	P	
C	A	T	I	O	N	M	C	D	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
A	M	N	T	O	M	S	U	S	U	S	M	S	E	A	E	A	R	A	O	T	R	O	A	
T	O	A	O	T	T	C	M	C	M	C	D	C	R	Y	R	D	T	N	T	H	T	L	A	
I	N	R	T	N	A	O	M	O	C	O	I	O	M	S	C	S	A	S	H	S	O	S	E	
O	Y	E	A	U	X	R	A	R	A	R	P	R	A	C	A	C	N	C	E	C	L	C	P	
N	R	A	L	M	A	E	Y	E	D	E	T	E	Y	R	D	R	Y	R	R	R	N	R	T	
<u>Big Creek River Mile 4.40</u>																								
BC26	AUG06	21.1	32	1914	33	4	2	0	4	6	17	4	7.8	2	31.4	6	10.9	2	49.6	2	10.8	4	4	2
BC26(a)	SEP06	21.1	4	13	6	0	0	0	1	2	3	0	0.0	0	38.5	0	7.7	0	53.8	0	7.7	0	4	2
<u>Big Creek-Ford Branch River Mile 4.70</u>																								
BC28.1	JUL06	10.0	4	80	15	2	0	0	0	0	13	2	0.0	0	0.0	0	0.0	0	100.0	0	47.5	0	0	0
BC28.1(a)	SEP06	10.0	2	38	10	0	0	0	0	0	7	2	0.0	0	0.0	0	0.0	0	100.0	0	44.7	0	1	0
<u>Doan Brook-North Branch River Mile 6.70</u>																								
DB18.1	JUL06	10.0	6	843	15	2	0	0	0	0	10	2	0.0	0	0.0	0	2.8	2	97.2	0	41.3	0	0	0
DB18.1	SEP06	10.0	2	888	8	0	0	0	0	0	7	2	0.0	0	0.0	0	0.0	0	100.0	0	46.8	0	0	0
<u>Doan Brook-South Branch River Mile 1.40</u>																								
DB19.5	JUL06	10.0	12	2003	18	2	1	0	0	0	13	2	0.0	2	0.0	0	12.8	4	87.2	0	23.2	2	1	0
DB19.5(a)	SEP06	10.0	4(b)	1	1	0	0	0	1	4	0	0	0.0	0	100.0	0	0.0	0	0.0	0	0.0	0	1	0
<u>Mill Creek River Mile 8.30</u>																								
MC34.6	JUL06	12.0	14	1003	23	2	1	0	1	2	17	4	2.4	2	0.8	2	8.8	2	88.0	0	34.4	0	2	0
MC34.6(a)	SEP06	12.0	0	1	1	0	0	0	0	0	0	0	0.0	0	0.0	0	0.0	0	100.0	0	0.0	0	1	0

(a) Low-end scoring instituted for Metrics 5 through 9 due to <50 individuals in the HD sample as per Ohio EPA errata (8 November 2006).  
(b) Despite low-end scoring, ICI score suspect due to the collection of a single organism.

Mill Creek River Mile 8.30

TAXA COMPOSITION, NUMBER, AND PERCENT OF ORGANISMS COLLECTED IN EACH HESTER-DENDY AND QUALITATIVE SAMPLE AT LOCATION MILL CREEK (MC34.6), JULY AND SEPTEMBER 2006.

TAXA	JULY				SEPTEMBER			
	HESTER		QUAL		HESTER		QUAL	
	#	%	#	%	#	%	#	%
Turbellaria	41	4.09	15	23.08	--	--	4	12.50
Plumatella	1	0.10	--	--	1	100.00	--	--
Oligochaeta	225	22.43	2	3.08	--	--	--	--
Helobdella	16	1.60	--	--	--	--	--	--
Helobdella stagnalis	--	--	1	1.54	--	--	--	--
Caecidotea	--	--	--	--	--	--	1	3.13
Crangonyx	--	--	3	4.62	--	--	2	6.25
Baetis flavistriga	24	2.39	15	23.08	--	--	8	25.00
Calopteryx	--	--	1	1.54	--	--	2	6.25
Argia	--	--	4	6.15	--	--	5	15.63
Enallagma	--	--	4	6.15	--	--	3	9.38
Aeshna	--	--	2	3.08	--	--	--	--
Hydroptila	8	0.80	3	4.62	--	--	--	--
Stenelmis	--	--	3	4.62	--	--	2	6.25
Thienemannimyia grp.	64	6.38	--	--	--	--	1	3.13
Cricotopus bicinctus grp.	16	1.60	2	3.08	--	--	2	6.25
Cricotopus sylvestris grp.	8	0.80	--	--	--	--	--	--
Eukiefferiella claripennis grp.	--	--	1	1.54	--	--	--	--
Nanocladius distinctus	16	1.60	--	--	--	--	--	--
Chironomus	24	2.39	3	4.62	--	--	--	--
Dicrotendipes neomodestus	8	0.80	--	--	--	--	--	--
Dicrotendipes simpsoni	24	2.39	--	--	--	--	--	--
Glyptotendipes	8	0.80	--	--	--	--	--	--
Paratendipes	40	3.99	--	--	--	--	--	--
Phaenopsectra obediens grp.	8	0.80	--	--	--	--	--	--
Phaenopsectra punctipes grp.	8	0.80	--	--	--	--	--	--
Polypedilum fallax grp.	8	0.80	--	--	--	--	--	--
Polypedilum flavum	16	1.60	--	--	--	--	1	3.13
Polypedilum illinoense	24	2.39	1	1.54	--	--	--	--
Polypedilum scalaenum grp.	304	30.31	1	1.54	--	--	--	--
Paratanytarsus	88	8.77	--	--	--	--	--	--
Tanytarsus guerlus grp.	--	--	--	--	--	--	1	3.13
Simulium	--	--	1	1.54	--	--	--	--
Hemerodromia	24	2.39	3	4.62	--	--	--	--
TOTAL	1003	100.00	65	100.00	1	100.00	32	100.00
TOTAL TAXA	23		18		1		12	

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L	O	C	A	T	I	O	N	A	M	C	D	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
O	C	A	T	I	O	N	A	M	C	D	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
A	M	N	O	T	M	S	U	S	U	S	M	S	E	A	E	A	R	A	O	T	R	O	R	A	S	E
T	O	A	O	T	T	C	M	C	M	C	D	C	R	Y	R	D	T	N	T	H	T	L	L	C	C	O
I	N	R	T	N	A	O	M	O	C	O	I	O	M	S	C	S	A	S	H	S	O	S	E	O	O	O
O	Y	E	A	U	X	R	A	R	A	R	P	R	A	C	A	C	N	C	E	C	L	C	P	R	R	E
N	R	A	L	M	A	E	Y	E	D	E	T	E	Y	R	D	R	Y	R	R	R	N	R	T	E	E	E
<u>Big Creek River Mile 0.15</u>																										
BC25	AUG06	38.0	18	754	26	4	1	0	2	4	16	4	13.0	2	3.4	2	4.2	2	79.3	0	52.7	0	2	0		
BC25	SEP06	38.0	34	388	25	4	2	0	5	6	13	2	53.1	6	17.3	6	0.5	2	29.1	4	7.2	4	3	0		
<u>Doan Brook River Mile 0.75</u>																										
DB16.1	JUL06	10.0	26	382	27	4	1	0	3	6	18	4	8.9	2	1.6	6	16.2	4	73.3	0	31.7	0	2	0		
DB16.1	SEP06	10.0	30	288	26	4	2	0	3	6	15	4	16.3	4	3.5	6	11.8	4	68.4	0	22.6	2	1	0		
<u>Euclid Creek River Mile 0.55</u>																										
EC0.5(a,b)	AUG06	23.0	4	48	12	0	0	0	1	2	8	2	0.0	0	6.3	0	0.0	0	72.9	0	41.7	0	3	0		
EC0.5	SEP06	23.0	24	443	29	4	2	0	2	4	16	4	7.2	2	5.2	4	14.2	4	67.0	0	16.0	2	3	0		
<u>Euclid Creek River Mile 0.57</u>																										
EC0.5A	SEP06	23.0	32	264	28	4	1	0	4	6	18	4	0.8	2	4.2	4	34.8	6	59.5	2	9.8	4	3	0		
<u>Mill Creek River Mile 0.12</u>																										
MC31	AUG06	18.1	12	297	14	2	1	0	1	2	8	2	0.7	2	3.4	4	0.0	0	96.0	0	74.4	0	1	0		
MC31	SEP06	18.1	28	424	24	2	2	0	4	6	12	2	5.9	2	20.5	6	0.7	2	72.6	0	5.7	6	6	2		

- (a) ICI calculated with surber sample.  
(b) The ICI score is suspect. Low-end scoring instituted for Metrics 5 through 9 due to <50 individuals in the HD sample as per Ohio EPA errata (8 November 2006).

Mill Creek River Mile 0.12

TAXA COMPOSITION, NUMBER, AND PERCENT OF ORGANISMS COLLECTED IN EACH HESTER-DENDY AND QUALITATIVE SAMPLE AT LOCATION MILL CREEK (MC31), AUGUST AND SEPTEMBER 2006.

TAXA	AUGUST				SEPTEMBER			
	HESTER		QUAL		HESTER		QUAL	
	#	%	#	%	#	%	#	%
Turbellaria	--	--	--	--	--	--	1	3.03
Oligochaeta	107	36.03	--	--	18	4.25	1	3.03
Erpobdella punctata punctata	12	4.04	1	5.56	3	0.71	--	--
Mooreobdella microstoma	--	--	2	11.11	--	--	--	--
Caecidotea	3	1.01	--	--	5	1.18	2	6.06
Gammarus	--	--	--	--	6	1.42	--	--
Hydracarina	--	--	--	--	2	0.47	--	--
Baetis intercalaris	--	--	--	--	2	0.47	1	3.03
Baetis flavistriga	2	0.67	4	22.22	23	5.42	9	27.27
Hetaerina	--	--	--	--	1	0.24	--	--
Cheumatopsyche	--	--	--	--	11	2.59	1	3.03
Hydropsyche depravata grp.	--	--	--	--	8	1.89	2	6.06
Ceratopsyche morosa	--	--	--	--	37	8.73	4	12.12
Ceratopsyche sparna	--	--	--	--	31	7.31	6	18.18
Hydroptila	10	3.37	--	--	--	--	--	--
Thienemannimyia grp.	24	8.08	1	5.56	232	54.72	3	9.09
Cricotopus tremulus grp.	4	1.35	--	--	3	0.71	1	3.03
Cricotopus bicinctus grp.	40	13.47	3	16.67	--	--	--	--
Nanocladius	--	--	--	--	3	0.71	--	--
Chironomus	6	2.02	1	5.56	--	--	--	--
Cryptochironomus	2	0.67	1	5.56	--	--	--	--
Phaenopsectra obediens grp.	--	--	--	--	3	0.71	--	--
Phaenopsectra punctipes grp.	--	--	--	--	3	0.71	--	--
Polypedilum fallax grp.	--	--	--	--	3	0.71	--	--
Polypedilum flavum	4	1.35	--	--	3	0.71	--	--
Polypedilum illinoense	68	22.90	3	16.67	3	0.71	1	3.03
Polypedilum scalaenum grp.	14	4.71	1	5.56	19	4.48	--	--
Paratanytarsus	--	--	--	--	3	0.71	--	--
Tipula	--	--	--	--	1	0.24	1	3.03
Hemerodromia	--	--	--	--	1	0.24	--	--
Physa	--	--	1	5.56	--	--	--	--
Helisoma	1	0.34	--	--	--	--	--	--
TOTAL	297	100.00	18	100.00	424	100.00	33	100.00
TOTAL TAXA	14		10		24		13	