

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.

Doan Brook-North Branch River Mile 6.70

TAXA COMPOSITION, NUMBER, AND PERCENT OF ORGANISMS COLLECTED IN EACH HESTER-DENDY AND QUALITATIVE SAMPLE AT LOCATION DOAN BROOK (DB18.1), JULY AND SEPTEMBER 2006.

TAXA	JULY				SEPTEMBER			
	HESTER		QUAL		HESTER		QUAL	
	#	%	#	%	#	%	#	%
Turbellaria	18	2.14	2	3.03	32	3.60	3	23.08
Plumatella	--	--	1	1.52	--	--	--	--
Oligochaeta	4	0.47	5	7.58	--	--	--	--
Helobdella	5	0.59	2	3.03	--	--	--	--
Erpobdella punctata punctata	2	0.24	--	--	--	--	--	--
Mooreobdella microstoma	--	--	2	3.03	--	--	--	--
Argia	--	--	1	1.52	--	--	--	--
Enallagma	--	--	5	7.58	--	--	6	46.15
Erythemis simplicicollis	--	--	--	--	--	--	2	15.38
Thienemannimyia grp.	--	--	--	--	8	0.90	--	--
Nanocladius distinctus	8	0.95	--	--	32	3.60	--	--
Chironomus	8	0.95	--	--	--	--	--	--
Dicrotendipes simpsoni	328	38.91	--	--	384	43.24	--	--
Endochironomus nigricans	--	--	1	1.52	96	10.81	--	--
Glyptotendipes	120	14.23	4	6.06	304	34.23	--	--
Parachironomus	8	0.95	1	1.52	8	0.90	--	--
Paratendipes	32	3.80	--	--	--	--	--	--
Polypedilum flavum	264	31.32	16	24.24	24	2.70	--	--
Rheotanytarsus	24	2.85	1	1.52	--	--	--	--
Simulium	1	0.12	12	18.18	--	--	2	15.38
Tipula	9	1.07	6	9.09	--	--	--	--
Physa	--	--	2	3.03	--	--	--	--
Helisoma	12	1.42	--	--	--	--	--	--
Musculium	--	--	5	7.58	--	--	--	--
TOTAL	843	100.00	66	100.00	888	100.00	13	100.00
TOTAL TAXA	15		16		8		4	

Doan Brook-South Branch River Mile 1.40

TAXA COMPOSITION, NUMBER, AND PERCENT OF ORGANISMS COLLECTED IN EACH HESTER-DENDY AND QUALITATIVE SAMPLE AT LOCATION DOAN BROOK (DB19.5), JULY AND SEPTEMBER 2006.

TAXA	JULY				SEPTEMBER			
	HESTER		QUAL		HESTER		QUAL	
	#	%	#	%	#	%	#	%
Turbellaria	113	5.64	3	5.88	--	--	1	4.35
Oligochaeta	256	12.78	5	9.80	--	--	3	13.04
Helobdella	--	--	1	1.96	--	--	--	--
Erpobdella punctata punctata	64	3.20	--	--	--	--	--	--
Crangonyx	1	0.05	3	5.88	--	--	2	8.70
Baetis flavistriga	1	0.05	3	5.88	--	--	3	13.04
Calopteryx	--	--	1	1.96	--	--	1	4.35
Argia	--	--	2	3.92	--	--	3	13.04
Enallagma	--	--	2	3.92	--	--	5	21.74
Aeshna	--	--	6	11.76	--	--	--	--
Archilestes grandis	--	--	1	1.96	--	--	--	--
Cheumatopsyche	--	--	--	--	1	100.00	--	--
Alotanypus	--	--	--	--	--	--	1	4.35
Thienemannimyia grp.	64	3.20	6	11.76	--	--	--	--
Cricotopus bicinctus grp.	--	--	1	1.96	--	--	--	--
Cricotopus sylvestris grp.	--	--	1	1.96	--	--	--	--
Nanocladius distinctus	32	1.60	--	--	--	--	--	--
Cryptochironomus	16	0.80	--	--	--	--	--	--
Dicrotendipes neomodestus	48	2.40	--	--	--	--	--	--
Dicrotendipes simpsoni	160	7.99	--	--	--	--	--	--
Paratendipes	384	19.17	2	3.92	--	--	1	4.35
Phaenopsectra punctipes grp.	48	2.40	1	1.96	--	--	--	--
Polypedilum fallax grp.	16	0.80	--	--	--	--	--	--
Polypedilum flavum	224	11.18	1	1.96	--	--	--	--
Polypedilum illinoense	--	--	1	1.96	--	--	--	--
Polypedilum scalaenum grp.	304	15.18	4	7.84	--	--	1	4.35
Paratanytarsus	128	6.39	--	--	--	--	--	--
Tanytarsus glabrescens grp.	128	6.39	--	--	--	--	--	--
Anopheles	--	--	1	1.96	--	--	--	--
Simulium	--	--	4	7.84	--	--	2	8.70
Tipula	--	--	1	1.96	--	--	--	--
Hemerodromia	16	0.80	--	--	--	--	--	--
Physa	--	--	1	1.96	--	--	--	--
TOTAL	2003	100.00	51	100.00	1	100.00	23	100.00
TOTAL TAXA	18		22		1		11	

NEORS - 2006 MACROINVERTEBRATE STUDY  
ICI METRICS AND SCORES

L O C A T I O N																													
	M	N	O	R	A	E																							
Big Creek River Mile 0.15																													
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					
Doan Brook River Mile 0.75																													
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					
Euclid Creek River Mile 0.55																													
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					
Euclid Creek River Mile 0.57																													
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					
Mill Creek River Mile 0.12																													
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).

Doan Brook River Mile 0.75

TAXA COMPOSITION, NUMBER, AND PERCENT OF ORGANISMS COLLECTED IN EACH HESTER-DENDY AND QUALITATIVE SAMPLE AT LOCATION DOAN BROOK (DB16.1), JULY AND SEPTEMBER 2006.

TAXA	JULY				SEPTEMBER			
	HESTER		QUAL		HESTER		QUAL	
	#	%	#	%	#	%	#	%
Turbellaria	1	0.26	3	12.00	19	6.60	3	17.65
Plumatella	--	--	--	--	1	0.35	--	--
Oligochaeta	98	25.65	1	4.00	7	2.43	--	--
Erpobdella punctata punctata	6	1.57	--	--	1	0.35	--	--
Mooreobdella microstoma	4	1.05	--	--	--	--	1	5.88
Hydracarina	18	4.71	1	4.00	5	1.74	--	--
Baetis intercalaris	--	--	--	--	3	1.04	--	--
Baetis flavistriga	34	8.90	11	44.00	44	15.28	6	35.29
Cheumatopsyche	2	0.52	--	--	2	0.69	--	--
Hydropsyche depravata grp.	3	0.79	6	24.00	7	2.43	--	--
Ceratopsyche morosa	--	--	--	--	1	0.35	--	--
Hydroptila	1	0.26	--	--	--	--	--	--
Thienemannimyia grp.	16	4.19	--	--	32	11.11	1	5.88
Cricotopus tremulus grp.	--	--	--	--	2	0.69	--	--
Nanocladius	9	2.36	--	--	--	--	--	--
Synorthocladius	2	0.52	--	--	4	1.39	--	--
Chironomus	--	--	--	--	4	1.39	--	--
Dicrotendipes simpsoni	7	1.83	--	--	8	2.78	--	--
Endochironomus nigricans	4	1.05	--	--	--	--	--	--
Glyptotendipes	2	0.52	--	--	--	--	--	--
Paratendipes	4	1.05	--	--	--	--	--	--
Phaenopsectra obediens grp.	2	0.52	--	--	10	3.47	--	--
Phaenopsectra punctipes grp.	7	1.83	--	--	8	2.78	--	--
Polypedilum flavum	78	20.42	--	--	30	10.42	--	--
Polypedilum illinoense	16	4.19	--	--	46	15.97	--	--
Polypedilum scalaenum grp.	2	0.52	--	--	2	0.69	1	5.88
Paratanytarsus	49	12.83	--	--	8	2.78	--	--
Rheotanytarsus	7	1.83	--	--	8	2.78	--	--
Tanytarsus	2	0.52	--	--	18	6.25	--	--
Tanytarsus glabrescens grp.	4	1.05	--	--	--	--	--	--
Pericoma	--	--	--	--	--	--	1	5.88
Simulium	2	0.52	1	4.00	7	2.43	3	17.65
Hemerodromia	2	0.52	--	--	10	3.47	--	--
Ephydridae	--	--	1	4.00	--	--	--	--
Physa	--	--	1	4.00	--	--	--	--
Helisoma	--	--	--	--	1	0.35	1	5.88
TOTAL	382	100.00	25	100.00	288	100.00	17	100.00
TOTAL TAXA	27		8		26		8	