

Macroinvertebrate Data Reports: Raw Data

STREAM SITE: Cohocton River COHO-00
 LOCATION: Bowles Corners, NY below Rte 21 bridge
 DATE: 08 July 2004
 SAMPLE TYPE: Kick sample
 SUBSAMPLE: 100 organisms

ANNELIDA

OLIGOCHAETA

LUMBRICIDA		Undetermined Lumbricina	1
LUMBRICULIDA	Lumbriculidae	Undetermined Lumbriculidae	1

ARTHROPODA

INSECTA

EPHEMEROPTERA	Baetidae	<i>Baetis intercalaris</i>	23
PLECOPTERA	Leuctridae	<i>Leuctra sp.</i>	7
	Perlidae	<i>Agneta capitata</i>	3
COLEOPTERA	Elmidae	<i>Optioservus fastiditus</i>	18
TRICHOPTERA	Philopotamidae	<i>Dolophilodes sp.</i>	4
	Hydropsychidae	<i>Hydropsyche slossonae</i>	7
		<i>Hydropsyche sparna</i>	9
DIPTERA	Tipulidae	<i>Antocha sp.</i>	4
		<i>Dicranota sp.</i>	1
	Simuliidae	<i>Simulium tuberosum</i>	2
	Chironomidae	<i>Thienemannimyia gr. spp.</i>	1
		<i>Cricotopus trifascia gr.</i>	4
		<i>Tvetenia bavarica gr.</i>	1
	<i>Polypedilum aviceps</i>	14	

SPECIES RICHNESS: 16 (poor)
 BIOTIC INDEX: 3.99 (very good)
 EPT RICHNESS: 6 (good)
 MODEL AFFINITY: 77 (very good)
 ASSESSMENT: slightly impacted (6.62)

DESCRIPTION: This site is approximately 7 miles downstream of the headwaters of the Cohocton River. Habitat was considered adequate for benthic macroinvertebrates. The benthic community was somewhat poor in species richness and EPT richness, likely due to lingering headwater effects. Nutrient enrichment was indicated by Impact Source Determination. Overall water quality was assessed as slightly impacted.

Macroinvertebrate Data Reports: Raw Data

STREAM SITE: Cohocton River COHO-02
 LOCATION: Cohocton, NY below Rte 415 bridge
 DATE: 08 July 2004
 SAMPLE TYPE: Kick sample
 SUBSAMPLE: 100 organisms

ANNELIDA			
OLIGOCHAETA			
LUMBRICULIDA	Lumbriculidae	Undetermined Lumbriculidae	2
MOLLUSCA			
PELECYPODA			
	Sphaeriidae	Sphaerium sp.	2
ARTHROPODA			
CRUSTACEA			
AMPHIPODA	Gammaridae	<i>Gammarus sp.</i>	10
INSECTA			
EPHEMEROPTERA	Baetidae	<i>Acentrella sp.</i>	1
		<i>Baetis flavistriga</i>	4
		<i>Baetis intercalaris</i>	9
	Leptohyphidae	<i>Tricorythodes sp.</i>	1
COLEOPTERA	Psephenidae	<i>Ectopria nervosa</i>	1
	Elmidae	<i>Optioservus trivittatus</i>	3
		<i>Stenelmis crenata</i>	20
TRICHOPTERA	Philopotamidae	<i>Chimarra aterrima?</i>	5
	Hydropsychidae	<i>Cheumatopsyche sp.</i>	7
		<i>Hydropsyche bronta</i>	14
	Uenoidae	<i>Neophylax sp.</i>	1
DIPTERA	Tipulidae	<i>Antocha sp.</i>	3
	Chironomidae	<i>Pagastia orthogonia</i>	1
		<i>Cricotopus trifascia gr.</i>	3
		<i>Orthocladius nr. dentifer</i>	2
		<i>Cryptochironomus fulvus gr.</i>	2
		<i>Microtendipes pedellus gr.</i>	1
		<i>Polypedilum flavum</i>	7
		<i>Sublettea coffmani</i>	1

SPECIES RICHNESS: 22 (good)
 BIOTIC INDEX: 5.18 (good)
 EPT RICHNESS: 8 (good)
 MODEL AFFINITY: 64 (good)
 ASSESSMENT: slightly impacted (6.65)

DESCRIPTION: The sample was taken downstream of the Route 415 bridge in Cohocton. The specific conductance had more than doubled from the upstream site. The substrate was dominated by gravel and may have limited the benthic community. Stoneflies, which were numerous at the upstream site, were not found at this site. Caddisflies and riffle beetles dominated the sample and water quality was assessed as slightly impacted.

Macroinvertebrate Data Reports: Raw Data

STREAM SITE: Cohocton River COHO-06
 LOCATION: Kanona, NY below Route 415 bridge
 DATE: 08 July 2004
 SAMPLE TYPE: Kick sample
 SUBSAMPLE: 100 organisms

ANNELIDA

OLIGOCHAETA

LUMBRICULIDA	Lumbriculidae	Undetermined Lumbriculidae	16
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ARTHROPODA

INSECTA

EPHEMEROPTERA	Baetidae	<i>Baetis flavistriga</i>	4	
		<i>Baetis intercalaris</i>	12	
	Heptageniidae	<i>Stenonema sp.</i>	1	
		EphemereIIDae	<i>EphemereIIa sp.</i>	1
	<i>Serratella deficiens</i>		7	
	Caenidae		<i>Caenis sp.</i>	1
	COLEOPTERA	Psephenidae	<i>Psephenus herricki</i>	2
		Elmidae	<i>Optioservus fastiditus</i>	1
			<i>Optioservus trivittatus</i>	3
	TRICHOPTERA	Philopotamidae	<i>Stenelmis cheryl</i>	14
<i>Chimarra aterrima?</i>			1	
Hydropsychidae		<i>Cheumatopsyche sp.</i>	2	
		<i>Hydropsyche bronta</i>	17	
		<i>Hydropsyche morosa</i>	2	
DIPTERA	Tipulidae	<i>Antocha sp.</i>	4	
		Chironomidae	<i>Cardiocladius obscurus</i>	1
	<i>Cricotopus trifascia gr.</i>		1	
	<i>Orthocladius sp.</i>		1	
	<i>Tvetenia vitracies</i>		1	
	<i>Polypedilum aviceps</i>		1	
	<i>Polypedilum flavum</i>		5	
	<i>Tanytarsus sp.</i>	2		

SPECIES RICHNESS: 23 (good)
 BIOTIC INDEX: 4.82 (good)
 EPT RICHNESS: 10 (good)
 MODEL AFFINITY: 67 (very good)
 ASSESSMENT: slightly impacted (7.16)

DESCRIPTION: The kick sample was taken 150 meters downstream of the Route 415 bridge in Kanona. The substrate was mainly rubble and provided adequate habitat for macroinvertebrates. The benthic community contained many worms, mayflies, and caddisflies, and overall water quality was assessed as slightly impacted

Macroinvertebrate Data Reports: Raw Data

STREAM SITE: Cohocton River COHO-07A
 LOCATION: Bath, NY Below Rte 11 bridge
 DATE: 09 July 2004
 SAMPLE TYPE: Kick sample
 SUBSAMPLE: 100 organisms

ANNELIDA			
OLIGOCHAETA			
LUMBRICULIDA	Lumbriculidae	Undetermined Lumbriculidae	2
MOLLUSCA			
PELECYPODA			
	Sphaeriidae	Undetermined Sphaeriidae	2
ARTHROPODA			
INSECTA			
EPHEMEROPTERA	Baetidae	<i>Baetis intercalaris</i>	8
	Heptageniidae	<i>Leucrocota sp.</i>	7
		<i>Nixe (Nixe) sp.</i>	5
	EphemereIIDae	<i>Serratella deficiens</i>	1
	Caenidae	<i>Caenis sp.</i>	2
PLECOPTERA	Perlidae	<i>Agnatina capitata</i>	1
COLEOPTERA	Psephenidae	<i>Psephenus herricki</i>	2
	Elmidae	<i>Optioservus fastiditus</i>	3
		<i>Optioservus trivittatus</i>	7
		<i>Stenelmis crenata</i>	23
TRICHOPTERA	Psychomyiidae	<i>Psychomyia flavida</i>	1
	Hydropsychidae	<i>Cheumatopsyche sp.</i>	1
		<i>Hydropsyche bronta</i>	3
DIPTERA	Chironomidae	<i>Cardiocladius obscurus</i>	1
		<i>Orthocladius dubitatus</i>	3
		<i>Microtendipes pedellus gr.</i>	3
		<i>Polypedilum flavum</i>	24
		<i>Tanytarsus sp.</i>	1
SPECIES RICHNESS:	20 (good)		
BIOTIC INDEX:	4.74 (good)		
EPT RICHNESS:	9 (good)		
MODEL AFFINITY:	63 (good)		
ASSESSMENT:	slightly impacted (6.72)		

DESCRIPTION: The sampling site was downstream of the Route 11 bridge below Bath. A septic smell was noted and the northern half of the river bottom had more algae than the southern half. The benthic community was dominated by riffle beetles and midges, and water quality was assessed as slightly impacted based on the metrics.

Macroinvertebrate Data Reports: Raw Data

STREAM SITE: Cohocton River COHO-08A
 LOCATION: Savona, NY above Co. Rte. 12 bridge
 DATE: 09 July 2004
 SAMPLE TYPE: Kick sample
 SUBSAMPLE: 100 organisms

ANNELIDA			
OLIGOCHAETA			
LUMBRICULIDA	Lumbriculidae	Undetermined Lumbriculidae	2
MOLLUSCA			
PELECYPODA			
	Sphaeriidae	Undetermined Sphaeriidae	4
ARTHROPODA			
INSECTA			
EPHEMEROPTERA	Isonychiidae	<i>Isonychia bicolor</i>	5
	Baetidae	<i>Acentrella sp.</i>	1
		<i>Baetis intercalaris</i>	2
	Heptageniidae	<i>Leucrocuta sp.</i>	6
	Ephemereididae	<i>Serratella deficiens</i>	9
		<i>Serratella serratoides</i>	8
	Caenidae	<i>Caenis sp.</i>	1
COLEOPTERA	Psephenidae	<i>Psephenus herricki</i>	6
	Elmidae	<i>Optioservus trivittatus</i>	7
		<i>Stenelmis crenata</i>	19
TRICHOPTERA	Philopotamidae	<i>Chimarra obscura</i>	1
	Hydropsychidae	<i>Cheumatopsyche sp.</i>	4
		<i>Hydropsyche bronta</i>	12
DIPTERA	Tipulidae	<i>Antocha sp.</i>	2
	Simuliidae	<i>Simulium vittatum</i>	1
	Chironomidae	<i>Cardiocladius albiplumus</i>	1
		<i>Cardiocladius obscurus</i>	2
		<i>Tvetenia vitracies</i>	5
		<i>Polypedilum flavum</i>	2

SPECIES RICHNESS: 21 (good)
 BIOTIC INDEX: 4.12 (very good)
 EPT RICHNESS: 10 (good)
 MODEL AFFINITY: 71 (very good)
 ASSESSMENT: slightly impacted (7.30)

DESCRIPTION: The sampling site was 50 meters upstream of the County Route 12 bridge in Savona. The habitat was considered adequate for macroinvertebrates, although gravel was dominant in the substrate. The benthic community was dominated by mayflies and riffle beetles, and water quality was assessed as slightly impacted.

Macroinvertebrate Data Reports: Raw Data

STREAM SITE: Cohocton River COHO-09
 LOCATION: Curtis, NY above Rte. 4 bridge
 DATE: 09 July 2004
 SAMPLE TYPE: Kick sample
 SUBSAMPLE: 100 organisms

HIRUDINEA

Glossiphoniidae Undetermined Hirudinea 1

ARTHROPODA

INSECTA

EPHEMEROPTERA	Isonychiidae	<i>Isonychia bicolor</i>	2
	Baetidae	<i>Acentrella sp.</i>	2
<i>Baetis flavistriga</i>		2	
<i>Baetis intercalaris</i>		3	
Heptageniidae		<i>Leucrocuta sp.</i>	5
		<i>Stenonema sp.</i>	5
Ephemere	Ephemerellidae	<i>Serratella serratoides</i>	7
	Caenidae	<i>Caenis sp.</i>	4
COLEOPTERA	Psephenidae	<i>Psephenus herricki</i>	1
	Elmidae	<i>Optioservus trivittatus</i>	4
		<i>Stenelmis crenata</i>	7
TRICHOPTERA	Hydropsychidae	<i>Cheumatopsyche sp.</i>	4
		<i>Hydropsyche bronta</i>	5
		<i>Hydropsyche leonardi</i>	1
		<i>Hydropsyche morosa</i>	16
		<i>Hydroptila sp.</i>	2
DIPTERA	Chironomidae	<i>Thienemannimyia gr. spp.</i>	1
		<i>Cardiocladius obscurus</i>	4
		<i>Cricotopus trifascia gr.</i>	12
		<i>Orthocladius nr. dentifer</i>	1
		<i>Parakiefferiella sp.</i>	2
		<i>Tvetenia vitracies</i>	5
		<i>Polypedilum flavum</i>	4

SPECIES RICHNESS: 24 (good)
 BIOTIC INDEX: 4.74 (good)
 EPT RICHNESS: 13 (very good)
 MODEL AFFINITY: 71 (very good)
 ASSESSMENT: non-impacted (7.78)

DESCRIPTION: The kick sample was taken upstream of the Route 4 bridge in Curtis. Filamentous algae was abundant on the rocks at this site. Mayflies, caddisflies, and midges dominated the benthic macroinvertebrate community. Based on the metrics, water quality was assessed as non-impacted.

Macroinvertebrate Data Reports: Raw Data

STREAM SITE: Cohocton River COHO-10A
 LOCATION: Coopers Plains, NY above Smith Road bridge
 DATE: 09 July 2004
 SAMPLE TYPE: Kick sample
 SUBSAMPLE: 100 organisms

ARTHROPODA

INSECTA

EPHEMEROPTERA	Isonychiidae	<i>Isonychia bicolor</i>	2
	Baetidae	<i>Acentrella sp.</i>	3
		<i>Baetis flavistriga</i>	3
		<i>Baetis intercalaris</i>	14
	Heptageniidae	<i>Leucrocuta sp.</i>	18
		<i>Stenonema sp.</i>	2
	Ephemerellidae	<i>Serratella deficiens</i>	4
		<i>Serratella serratoides</i>	9
	Caenidae	<i>Caenis sp.</i>	3
COLEOPTERA	Elmidae	<i>Optioservus trivittatus</i>	1
		<i>Stenelmis sp.</i>	2
TRICHOPTERA	Psychomyiidae	<i>Psychomyia flavida</i>	1
	Hydropsychidae	<i>Cheumatopsyche sp.</i>	3
		<i>Hydropsyche bronta</i>	9
		<i>Hydropsyche morosa</i>	10
	Limnephilidae	<i>Pycnopsyche sp.</i>	1
DIPTERA	Simuliidae	<i>Simulium vittatum</i>	4
	Chironomidae	<i>Thienemannimyia gr. spp.</i>	1
		<i>Cardiocladius obscurus</i>	3
		<i>Cricotopus trifascia gr.</i>	1
		<i>Tvetenia vitracies</i>	4
		<i>Polypedilum aviceps</i>	1
		<i>Rheotanytarsus exiguus gr.</i>	1

SPECIES RICHNESS: 23 (good)
 BIOTIC INDEX: 4.00 (very good)
 EPT RICHNESS: 14 (very good)
 MODEL AFFINITY: 68 (very good)
 ASSESSMENT: non-impacted (7.96)

DESCRIPTION: The kick sample was taken 200 meters upstream of the Smith Road bridge in Coopers Plains. The habitat was very good and the macroinvertebrate community was dominated by mayflies. Water quality was assessed as non-impacted.

Macroinvertebrate Data Reports: Raw Data

STREAM SITE: Cohocton River COHO-10
 LOCATION: Painted Post, NY Fishing Access off Canada Road
 DATE: 09 July 2004
 SAMPLE TYPE: Kick sample
 SUBSAMPLE: 100 organisms

ARTHROPODA

INSECTA

EPHEMEROPTERA	Isonychiidae	<i>Isonychia bicolor</i>	3
	Baetidae	<i>Acentrella sp.</i>	2
		<i>Baetis intercalaris</i>	2
	Heptageniidae	<i>Leucocuta sp.</i>	8
		<i>Stenonema sp.</i>	5
	Ephemerellidae	<i>Serratella serratoides</i>	9
	Caenidae	<i>Caenis sp.</i>	6
PLECOPTERA	Perlidae	<i>Paragnetina media</i>	1
COLEOPTERA	Psephenidae	<i>Psephenus herricki</i>	1
	Elmidae	<i>Optioservus trivittatus</i>	1
		<i>Stenelmis crenata</i>	3
TRICHOPTERA	Hydropsychidae	<i>Cheumatopsyche sp.</i>	4
		<i>Hydropsyche bronta</i>	3
		<i>Hydropsyche leonardi</i>	1
		<i>Hydropsyche morosa</i>	7
		<i>Hydropsyche scalaris</i>	1
DIPTERA	Simuliidae	<i>Simulium sp.</i>	2
	Chironomidae	<i>Thienemannimyia gr. spp.</i>	1
		<i>Cardiocladius obscurus</i>	5
		<i>Cricotopus bicinctus</i>	1
		<i>Cricotopus tremulus gr.</i>	1
		<i>Cricotopus trifascia gr.</i>	15
		<i>Cricotopus vierriensis</i>	2
		<i>Eukiefferiella devonica gr.</i>	1
		<i>Orthocladius dubitatus</i>	8
		<i>Tvetenia vitracies</i>	3
		<i>Microtendipes pedellus gr.</i>	1
		<i>Polypedilum aviceps</i>	1
		<i>Polypedilum flavum</i>	1
		<i>Tanytarsus sp.</i>	1

SPECIES RICHNESS: 30 (very good)
 BIOTIC INDEX: 4.58 (good)
 EPT RICHNESS: 13 (very good)
 MODEL AFFINITY: 73 (very good)
 ASSESSMENT: non-impacted (8.35)

DESCRIPTION: The kick sample was taken near the Fishing Access site off Canada Road in Painted Post. The habitat was very good and the macroinvertebrate community was diverse and well-balanced. Based on the metrics, water quality was assessed as non-impacted.

FIELD DATA SUMMARY

STREAM NAME: Cohocton River		DATE SAMPLED: 7/8/2004		
REACH: Bowles Corners to Painted Post				
FIELD PERSONNEL INVOLVED: Smith, Novak, Garry				
STATION	00	02	06	07A
ARRIVAL TIME AT STATION	1:05	1:50	3:30	8:25
LOCATION	Bowles Corners Rte 21	Cohocton, Rte 415 bridge	Kanona, Rte 415 bridge	Below Bath Rte 11 bridge
PHYSICAL CHARACTERISTICS				
Width (meters)	4.0	12	30	30
Depth (meters)	0.2	0.2	0.3	0.3
Current speed (cm per sec.)	83	100	143	91
Substrate (%)				
Rock (>25.4 cm, or bedrock)			10	
Rubble (6.35 - 25.4 cm)	50	20	40	10
Gravel (0.2 - 6.35 cm)	30	50	20	40
Sand (0.06 - 2.0 mm)	10	10	20	30
Silt (0.004 - 0.06 mm)	10	20	10	20
Embeddedness (%)	30	30	30	20
CHEMICAL MEASUREMENTS				
Temperature (° C)	17.9	20.9	21.5	17.3
Specific Conductance (umhos)	241	549	498	661
Dissolved Oxygen (mg/l)	11.1	10.8	12.0	9.0
pH	7.9	7.7	8.2	7.9
BIOLOGICAL ATTRIBUTES				
Canopy (%)	70	20	10	10
Aquatic Vegetation				
algae - suspended				
algae - attached, filamentous				x
algae - diatoms	x			x
macrophytes or moss		x		x
Occurrence of Macroinvertebrates				
Ephemeroptera (mayflies)	x	x	x	x
Plecoptera (stoneflies)	x		x	x
Trichoptera (caddisflies)	x	x	x	x
Coleoptera (beetles)	x	x	x	x
Megaloptera (dobsonflies, alderflies)			x	
Odonata (dragonflies, damselflies)				
Chironomidae (midges)	x	x	x	x
Simuliidae (black flies)				
Decapoda (crayfish)	x	x	x	
Gammaridae (scuds)		x		x
Mollusca (snails, clams)		x		
Oligochaeta (worms)		x	x	x
Other				
FAUNAL CONDITION	Very good	Good	Good	Good

FIELD DATA SUMMARY

STREAM NAME: Cohocton River		DATE SAMPLED: 7/9/2004		
REACH: Bowles Corners to Painted Post				
FIELD PERSONNEL INVOLVED: Smith, Novak, Garry				
STATION	08A	09	10A	10
ARRIVAL TIME AT STATION	9:15	10:00	10:35	11:20
LOCATION	Savona Co. Rte 12 bridge	Curtis Rte 4 bridge	Cooper Plains Smith Rd	Painted Post Fishing Access
PHYSICAL CHARACTERISTICS				
Width (meters)	40	40	20	50
Depth (meters)	0.3	0.3	0.3	0.2
Current speed (cm per sec.)	83	100	91	100
Substrate (%)				
Rock (>25.4 cm, or bedrock)		10	10	10
Rubble (6.35 – 25.4 cm)	20	50	40	40
Gravel (0.2 – 6.35 cm)	40	10	20	20
Sand (0.06 – 2.0 mm)	20	20	20	20
Silt (0.004 – 0.06 mm)	20	10	10	10
Embeddedness (%)	40	40	40	30
CHEMICAL MEASUREMENTS				
Temperature (°C)	18.3	19.4	20.0	20.2
Specific Conductance (umhos)	658	704	716	684
Dissolved Oxygen (mg/l)	9.6	9.4	10.9	11.4
pH	8.2	8.2	8.4	8.4
BIOLOGICAL ATTRIBUTES				
Canopy (%)	0	0	0	0
Aquatic Vegetation				
algae – suspended				
algae – attached, filamentous	x	xx	x	xx
algae – diatoms	x	x	x	x
macrophytes or moss	x		x	
Occurrence of Macroinvertebrates				
Ephemeroptera (mayflies)	x	x	x	x
Plecoptera (stoneflies)	x		x	x
Trichoptera (caddisflies)	x	x	x	x
Coleoptera (beetles)	x	x	x	x
Megaloptera (dobsonflies, alderflies)	x		x	
Odonata (dragonflies, damselflies)				
Chironomidae (midges)	x	x	x	x
Simuliidae (black flies)				
Decapoda (crayfish)	x		x	
Gammaridae (scuds)				
Mollusca (snails, clams)	x			
Oligochaeta (worms)	x		x	
Other				
FAUNAL CONDITION	Good	Good	Very good	Very good