

STREAM SITE: Flint Creek, Station 1  
 LOCATION: Italy, NY, 20 meters downstream of Basset Road.  
 DATE: 16 July 2002  
 SAMPLE TYPE: Kick sample  
 SUBSAMPLE: 100 individuals

ARTHROPODA

INSECTA

Ephemeroptera

Baetidae Acentrella sp. 6

Baetis brunneicolor 8

Leptophlebiidae Paraleptophlebia sp. 1

Plecoptera

Leuctridae Leuctra sp. 3

Nemouridae Undetermined Nemouridae 1

Taeniopterygidae Taeniopteryx sp. 1

Coleoptera

Elmidae Optioservus fastiditus 12

Trichoptera

Philopotamidae Dolophilodes sp. 13

Polycentropodidae Polycentropus sp. 1

Hydropsychidae Cheumatopsyche sp. 1

Hydropsyche slossonae 5

Hydropsyche sparna 7

Diptera

Rhyacophilidae Rhyacophila fuscula 1

Tipulidae Antocha sp. 1

Hexatoma sp. 2

Ceratopogonidae Undetermined Ceratopogonidae 4

Simuliidae Simulium tuberosum 4

Chironomidae Thienemannimyia gr. spp. 7

Diamesa sp. 3

Tvetenia bavarica gr. 1

Polypedilum aviceps 14

Polypedilum flavum 3

Micropsectra sp. 1

SPECIES RICHNESS 23 (good)  
 BIOTIC INDEX 3.71(very good)  
 EPT RICHNESS 12 (very good)  
 MODEL AFFINITY 70 (very good)  
 ASSESSMENT non-impacted

DESCRIPTION The sampling site was located in the headwaters of Flint Creek, 20 meters downstream of Basset Road in Italy. Although the site was assessed as non-impacted the invertebrate community had reduced species richness due to its headwaters location (see Appendix XI).

STREAM SITE: Flint Creek, Station 2  
 LOCATION: Italy, NY, 20 meters downstream of County Route 18.  
 DATE: 16 July 2002  
 SAMPLE TYPE: Kick sample  
 SUBSAMPLE: 100 individuals

ANNELIDA			
OLIGOCHAETA			
LUMBRICULIDA	Lumbriculidae	Undetermined Lumbriculidae	2
TUBIFICIDA	Tubificidae	Undet. Tubificidae w/o cap. setae	1
MOLLUSCA			
GASTROPODA	Ancylidae	Ferrissia sp.	1
ARTHROPODA			
INSECTA			
EPHEMEROPTERA	Heptageniidae	Nixe (Nixe) sp.	1
	Leptophlebiidae	Paraleptophlebia sp.	1
COLEOPTERA	Elmidae	Optioservus fastiditus	40
		Stenelmis crenata	3
MEGALOPTERA	Corydalidae	Nigronia serricornis	1
TRICHOPTERA	Hydropsychidae	Cheumatopsyche sp.	9
		Hydropsyche sparna	2
DIPTERA	Tipulidae	Dicranota sp.	1
		Tipula sp.	1
	Simuliidae	Simulium vittatum	5
	Empididae	Hemerodromia sp.	2
	Chironomidae	Thienemannimyia gr. spp.	6
		Diamesa sp.	1
		Parametrioctenemus lundbecki	6
		Polypedilum aviceps	2
		Micropsectra sp.	14
		Rheotanytarsus exiguus gr.	1

SPECIES RICHNESS 20 (good)  
 BIOTIC INDEX 5.04 (good)  
 EPT RICHNESS 4 (poor)  
 MODEL AFFINITY 55 (good)  
 ASSESSMENT slightly impacted

DESCRIPTION The sample was taken 20 meters downstream of the County Rte. 18 bridge, in Italy. The invertebrate community was dominated by two organisms; the intolerant riffle beetle *Optioservus fastiditus* and the facultative midge *Micropsectra sp.*. Stoneflies were absent and mayflies were scarcely represented, resulting in similarity to communities affected by non-point source nutrient additions indicated by Impact Source Determination as explained in Appendix X. Water quality was assessed as slightly impacted.

STREAM SITE: Flint Creek, Station 3  
 LOCATION: Potter, NY, 50 meters downstream of Route 364.  
 DATE: 16 July 2002  
 SAMPLE TYPE: Kick sample  
 SUBSAMPLE: 100 individuals

ANNELIDA			
OLIGOCHAETA			
TUBIFICIDA	Tubificidae	<i>Limnodrilus hoffmeisteri</i>	14
	Naididae	<i>Nais variabilis</i>	1
ARTHROPODA			
CRUSTACEA			
ISOPODA	Asellidae	<i>Caecidotea racovitzai</i>	6
INSECTA			
EPHEMEROPTERA	Baetidae	<i>Baetis intercalaris</i>	1
	Heptageniidae	<i>Stenacron interpunctatum</i>	1
		<i>Stenonema ithaca</i>	2
COLEOPTERA	Psephenidae	<i>Psephenus herricki</i>	2
	Elmidae	<i>Dubiraphia bivittata</i>	5
		<i>Stenelmis crenata</i>	27
TRICHOPTERA	Hydropsychidae	<i>Cheumatopsyche</i> sp.	9
DIPTERA	Simuliidae	<i>Simulium vittatum</i>	2
	Empididae	<i>Hemerodromia</i> sp.	2
	Chironomidae	<i>Thienemannimyia</i> gr. spp.	12
		<i>Diamesa</i> sp.	1
		<i>Cricotopus vierriensis</i>	5
		<i>Microtendipes pedellus</i> gr.	3
		<i>Polypedilum aviceps</i>	2
		<i>Micropsectra polita</i>	1
		<i>Micropsectra</i> sp.	1
		<i>Rheotanytarsus exiguus</i> gr.	3

SPECIES RICHNESS 20 (good)  
 BIOTIC INDEX 6.30 (good)  
 EPT RICHNESS 4 (poor)  
 MODEL AFFINITY 58 (good)  
 ASSESSMENT slightly impacted

DESCRIPTION This site was located downstream of the Rte. 364 bridge in Potter. The invertebrate fauna was indicative of impoundment effects, with lower species and EPT richness than the upstream non-impacted site 1 (see Appendix XII). This is likely the result of a lowland marsh which dominates the area between sites 2 and 3. Water quality was assessed as slightly impacted, caused by natural habitat conditions.

STREAM SITE: Flint Creek, Station 4  
 LOCATION: Cole Corners, NY, immediately downstream of Route 4.  
 DATE: 16 July 2002  
 SAMPLE TYPE: Kick sample  
 SUBSAMPLE: 100 individuals

PLATYHELMINTHES

TURBELLARIA		Undetermined Turbellaria	3
ANNELIDA			
OLIGOCHAETA			
TUBIFICIDA	Tubificidae	Undet. Tubificidae w/o cap. setae	4
MOLLUSCA			
PELECYPODA	Sphaeriidae	Sphaerium sp.	1
ARTHROPODA			
INSECTA			
COLEOPTERA	Elmidae	Optioservus trivittatus	1
		Promoresia elegans	2
		Stenelmis crenata	17
TRICHOPTERA	Hydropsychidae	Cheumatopsyche sp.	18
		Hydropsyche betteni	26
	Hydroptilidae	Hydroptila spatulata	1
DIPTERA	Tipulidae	Dicranota sp.	1
	Simuliidae	Simulium vittatum	1
	Empididae	Hemerodromia sp.	2
	Chironomidae	Thienemannimyia gr. spp.	2
		Cricotopus tremulus gr.	7
		Cricotopus trifascia gr.	8
		Cricotopus vierriensis	5
		Polypedilum flavum	1

SPECIES RICHNESS 17 (poor)  
 BIOTIC INDEX 6.07 (good)  
 EPT RICHNESS 3 (poor)  
 MODEL AFFINITY 52 (good)  
 ASSESSMENT moderately impacted

DESCRIPTION The sample was collected immediately downstream of the Rte. 4 bridge, in Cole Corners. Community index results were split between slightly and moderately impacted. The overall assessment was just within the moderately impacted range. Species richness and EPT richness were reduced in comparison to upstream sites. Stoneflies and mayflies were absent from this site. Conditions at this site may be adversely affected by the swamp upstream. Dissolved oxygen levels were low for the current speed recorded at the site.

STREAM SITE: Flint Creek, Station 5  
 LOCATION: Stanley, NY, 30 meters downstream of Mott Road.  
 DATE: 16 July 2002  
 SAMPLE TYPE: Kick sample  
 SUBSAMPLE: 100 individuals

ANNELIDA			
OLIGOCHAETA			
LUMBRICIDA		Undetermined Lumbricina	1
TUBIFICIDA	Tubificidae	Limnodrilus hoffmeisteri	6
MOLLUSCA			
GASTROPODA	Ancylidae	Ferrissia sp.	1
PELECYPODA	Sphaeriidae	Sphaerium sp.	6
ARTHROPODA			
INSECTA			
COLEOPTERA	Gyrinidae	Gyrinus sp.	1
	Elmidae	Stenelmis crenata	25
TRICHOPTERA	Hydropsychidae	Cheumatopsyche sp.	35
		Hydropsyche betteni	16
		Hydropsyche bronta	1
DIPTERA	Simuliidae	Simulium sp.	1
	Empididae	Hemerodromia sp.	3
	Chironomidae	Polypedilum flavum	1
		Rheotanytarsus exiguus gr.	2
		Rheotanytarsus pellucidus	1

SPECIES RICHNESS 14 (poor)  
 BIOTIC INDEX 5.75 (good)  
 EPT RICHNESS 3 (poor)  
 MODEL AFFINITY 39 (poor)  
 ASSESSMENT moderately impacted

DESCRIPTION This sampling location was in Stanley, 30 m downstream of the Mott Rd. bridge. The invertebrate community at this site was significantly reduced compared to upstream sites. Three species of facultative insects composed 76% of the sample. Stoneflies and mayflies were absent at this site as well.

STREAM SITE: Flint Creek, Station 6  
 LOCATION: Seneca Castle, NY, at Ferguson Road.  
 DATE: 16 July 2002  
 SAMPLE TYPE: Kick sample  
 SUBSAMPLE: 100 individuals

ANNELIDA			
OLIGOCHAETA			
TUBIFICIDA	Tubificidae	Undet. Tubificidae w/o cap. setae	2
	Naididae	Nais bretscheri	1
HIRUDINEA		Undetermined Hirudinea	1
MOLLUSCA			
PELECYPODA	Sphaeriidae	Sphaerium sp.	3
ARTHROPODA			
INSECTA			
EPHEMEROPTERA	Heptageniidae	Stenonema ithaca	2
	Leptohyphidae	Tricorythodes sp.	13
COLEOPTERA	Psephenidae	Ectopria nervosa	1
	Elmidae	Optioservus sp.	1
		Stenelmis crenata	20
MEGALOPTERA	Corydalidae	Nigronia serricornis	2
	Sialidae	Sialis sp.	1
TRICHOPTERA	Hydropsychidae	Cheumatopsyche sp.	24
		Hydropsyche betteni	3
		Hydropsyche bronta	9
DIPTERA	Tipulidae	Antocha sp.	12
	Chironomidae	Thienemannimyia gr. spp.	1
		Cricotopus bicinctus	1
		Cricotopus trifascia gr.	1
		Polypedilum flavum	2

SPECIES RICHNESS 19 (good)  
 BIOTIC INDEX 4.93 (good)  
 EPT RICHNESS 5 (poor)  
 MODEL AFFINITY 53 (good)  
 ASSESSMENT slightly impacted

DESCRIPTION The kick sample was taken at the Ferguson Rd. bridge, in Seneca Castle. The invertebrate fauna began to rebound from upstream impacts, resulting in a more balanced community with mayflies again making up a portion of the community. Water quality was assessed as slightly impacted.

STREAM SITE: Flint Creek, Station 7  
 LOCATION: Phelps, NY, 30 meters upstream of Griffith Road.  
 DATE: 16 July 2002  
 SAMPLE TYPE: Kick sample  
 SUBSAMPLE: 100 individuals

PLATYHELMINTHES

TURBELLARIA		Undetermined Turbellaria	2
MOLLUSCA			
GASTROPODA	Planorbidae	Undetermined Planorbidae	2
PELECYPODA	Sphaeriidae	Sphaerium sp.	1
ARTHROPODA			
INSECTA			
EPHEMEROPTERA	Isonychiidae	Isonychia bicolor	1
	Baetidae	Plauditus sp.	1
	Heptageniidae	Stenacron interpunctatum	2
		Stenonema sp.	1
	Leptohyphidae	Tricorythodes sp.	5
	Caenidae	Caenis sp.	1
COLEOPTERA	Psephenidae	Psephenus herricki	3
	Elmidae	Stenelmis crenata	5
MEGALOPTERA	Sialidae	Sialis sp.	1
TRICHOPTERA	Philopotamidae	Chimarra obscura	1
	Hydropsychidae	Cheumatopsyche sp.	12
		Hydropsyche sparna	8
DIPTERA	Tipulidae	Antocha sp.	1
	Empididae	Hemerodromia sp.	2
	Chironomidae	Thienemannimyia gr. spp.	3
		Corynoneura sp.	1
		Cricotopus bicinctus	3
		Cricotopus tremulus gr.	6
		Cricotopus trifascia gr.	4
		Cricotopus vierriensis	6
		Parametriocnemus lundbecki	3
		Tvetenia vitracies	1
		Polypedilum flavum	19
		Rheotanytarsus exiguus gr.	3
		Tanytarsus glabrescens gr.	2
SPECIES RICHNESS	28 (very good)		
BIOTIC INDEX	5.62 (good)		
EPT RICHNESS	9 (good)		
MODEL AFFINITY	58 (good)		
ASSESSMENT	slightly impacted		

DESCRIPTION This sample was collected 30 meters upstream of the Griffith Rd. bridge, in Phelps. Species diversity increased greatly compared to previous sites suggesting further recovery from upstream impacts. The fauna was balanced although stoneflies were still absent. Water quality was assessed as slightly impacted.

STREAM SITE: Nettle Valley Creek, Station A  
 LOCATION: Potter, NY, immediately downstream of Route 364.  
 DATE: 16 July 2002  
 SAMPLE TYPE: Kick sample  
 SUBSAMPLE: 100 individuals

PLATYHELMINTHES

TURBELLARIA Undetermined Turbellaria 2

ANNELIDA

OLIGOCHAETA

LUMBRICIDA Undetermined Lumbricina 1

TUBIFICIDA Naididae Nais behningi 11

MOLLUSCA

PELECYPODA Sphaeriidae Undetermined Sphaeriidae 1

ARTHROPODA

INSECTA

EPHEMEROPTERA Baetidae Baetis flavistriga 4

Baetis intercalaris 1

COLEOPTERA Leptophlebiidae Paraleptophlebia sp. 3

Psephenidae Psephenus herricki 3

Elmidae Optioservus sp. 4

Promoresia elegans 1

TRICHOPTERA Philopotamidae Chimarra aterrима? 2

Hydropsychidae Cheumatopsyche sp. 13

Hydropsyche bronta 1

Hydropsyche slossonae 3

Hydropsyche sp. 2

Hydroptilidae Hydroptila sp. 5

DIPTERA Tipulidae Antocha sp. 2

Dicranota sp. 3

Limonia sp. 1

Tipula sp. 2

Ceratopogonidae Undetermined Ceratopogonidae 1

Chironomidae Thienemannimyia gr. spp. 10

Corynoneura sp. 1

Cricotopus tremulus gr. 2

Parametriocnemus lundbecki 2

Tvetenia bavarica gr. 2

Polypedilum aviceps 5

Xenochironomus xenolabis 1

Cladotanytarsus nr. dispersopilosus 1

SPECIES RICHNESS 31 (very good) Micropsectra sp. 2

BIOTIC INDEX 4.99 (good) Rheotanytarsus exiguus gr. 8

EPT RICHNESS 9 (good)

MODEL AFFINITY 61 (good)

ASSESSMENT slightly impacted

DESCRIPTION The sample was taken on Nettle Valley Creek in Potter, immediately downstream of the Rte. 364 bridge. This site was very productive with a highly diverse invertebrate community. Water quality was slightly impacted.

FIELD DATA SUMMARY				
STREAM NAME: Flint Creek			DATE SAMPLED: 07/16/02	
REACH: Italy to Potter				
FIELD PERSONNEL INVOLVED: Smith, Novak				
STATION	01	02	03	A (Nettle Valley Crk.)
ARRIVAL TIME AT STATION	9:12	10:05	10:45	11:28
LOCATION	Italy	Italy	Potter	Potter
<b>PHYSICAL CHARACTERISTICS</b>				
Width (meters)	3	4	10	3
Depth (meters)	0.1	0.1	0.1	0.1
Current speed (cm per sec.)	56	45	40	20
Substrate (%)				
Rock (>25.4 cm, or bedrock)			10	20
Rubble (6.35 - 25.4 cm)	40	10	40	40
Gravel (0.2 – 6.35 cm)	30	50	20	10
Sand (0.06 – 2.0 mm)	20	10	10	10
Silt (0.004 – 0.06 mm)	10	30	20	20
Embeddedness (%)	25	10	10	10
<b>CHEMICAL MEASUREMENTS</b>				
Temperature (° C)	15.5	18.2	20.6	18.9
Specific Conductance (umhos)	178	163	203	199
Dissolved Oxygen (mg/l)	10.1	8.3	8.4	7.4
pH	8.1	7.7	7.6	7.8
<b>BIOLOGICAL ATTRIBUTES</b>				
Canopy (%)	40	60	20	59
Aquatic Vegetation				
algae – suspended				
algae – attached, filamentous			x	x
algae - diatoms				
macrophytes or moss				
Occurrence of Macroinvertebrates				
Ephemeroptera (mayflies)	x	x	x	x
Plecoptera (stoneflies)	x	x	x	
Trichoptera (caddisflies)	x	x	x	x
Coleoptera (beetles)			x	x
Megaloptera(dobsonflies,alderflies)	x	x		x
Odonata (dragonflies, damselflies)		x		
Chironomidae (midges)	x	x	x	x
Simuliidae (black flies)	x	x		
Decapoda (crayfish)	x	x	x	x
Gammaridae (scuds)				
Mollusca (snails, clams)			x	x
Oligochaeta (worms)			x	
Other			x	
FIELD ASSESSMENT	non	slight	slight	slight

FIELD DATA SUMMARY				
STREAM NAME: Flint Creek		DATE SAMPLED: 07/16/02		
REACH: Cole Corners to Phelps				
FIELD PERSONNEL INVOLVED: Smith, Novak				
STATION	04	05	06	07
ARRIVAL TIME AT STATION	12:20	1:45	2:35	3:17
LOCATION	Cole Corners	Stanley	Seneca Castle	Phelps
<b>PHYSICAL CHARACTERISTICS</b>				
Width (meters)	4	10	15	10
Depth (meters)	0.1	0.2	0.1	0.2
Current speed (cm per sec.)	91	71	67	30
Substrate (%)				
Rock (>25.4 cm, or bedrock)	10		10	10
Rubble (6.35 - 25.4 cm)	40	40	40	40
Gravel (0.2 – 6.35 cm)	20	30	20	20
Sand (0.06 – 2.0 mm)	10	10	10	10
Silt (0.004 – 0.06 mm)	20	20	20	20
Embeddedness (%)	40	15	40	40
<b>CHEMICAL MEASUREMENTS</b>				
Temperature (° C)	23.7	24.0	26.5	27.7
Specific Conductance (umhos)	318	301	272	248
Dissolved Oxygen (mg/l)	6.8	11.0	12.1	11.8
pH	7.5	8.1	8.4	8.6
<b>BIOLOGICAL ATTRIBUTES</b>				
Canopy (%)	0	60	10	63
Aquatic Vegetation				
algae – suspended				
algae – attached, filamentous		x	xx	xxx
algae - diatoms			x	x
macrophytes or moss				
Occurrence of Macroinvertebrates				
Ephemeroptera (mayflies)			x	x
Plecoptera (stoneflies)				
Trichoptera (caddisflies)	x	x	x	x
Coleoptera (beetles)	x	x	x	x
Megaloptera(dobsonflies,alderflies)			x	
Odonata (dragonflies, damselflies)	x		x	
Chironomidae (midges)	x	x	x	x
Simuliidae (black flies)	x	x		
Decapoda (crayfish)	x	x	x	x
Gammaridae (scuds)				x
Mollusca (snails, clams)		x		
Oligochaeta (worms)		x	x	
Other		x	x	x
<b>FIELD ASSESSMENT</b>	moderate	moderate	slight	moderate

LABORATORY DATA SUMMARY					
STREAM NAME: Flint Creek		DRAINAGE: 07			
DATE SAMPLED: 07/16/02		COUNTY: Yates			
SAMPLING METHOD: Traveling Kick					
STATION	01	02	03	A (Nettle Valley Crk.)	
LOCATION	Italy	Italy	Potter	Potter	
DOMINANT SPECIES/%CONTRIBUTION/TOLERANCE/COMMON NAME					
Intolerant = not tolerant of poor water quality	1.	Polypedilum aviceps 14 % facultative midge	Optioservus fastiditus 40 % intolerant beetle	Stenelmis crenata 27 % facultative beetle	Cheumatopsyche sp. 13 % facultative caddisfly
	2.	Dolophilodes sp. 13 % intolerant caddisfly	Micropsectra sp. 14 % facultative midge	Limnodrilus hoffmeisteri 14 % tolerant worm	Nais behningi 11 % facultative worm
Facultative = occurring over a wide range of water quality	3.	Optioservus fastiditus 12 % intolerant beetle	Cheumatopsyche sp. 9 % facultative caddisfly	Thienemannimyia gr. spp. 12 % facultative midge	Thienemannimyia gr. spp. 10 % facultative midge
Tolerant = tolerant of poor water quality	4.	Baetis brunneicolor 8 % intolerant mayfly	Thienemannimyia gr. spp. 6 % facultative midge	Cheumatopsyche sp. 9 % facultative caddisfly	Rheotanytarsus exiguus gr. 8 % facultative midge
	5.	Hydropsyche sparna 7 % facultative caddisfly	Parametriocnems lundbecki 6 % facultative midge	Caecidotea racovitzai 6 % tolerant sowbug	Hydroptila sp. 5 % facultative caddisfly
% CONTRIBUTION OF MAJOR GROUPS (NUMBER OF TAXA IN PARENTHESES)					
Chironomidae (midges)	29.0 (6.0)	30.0 (6.0)	28.0 (8.0)	34.0 (10.0)	
Trichoptera (caddisflies)	28.0 (6.0)	11.0 (2.0)	9.0 (1.0)	26.0 (6.0)	
Ephemeroptera (mayflies)	15.0 (3.0)	2.0 (2.0)	4.0 (3.0)	8.0 (3.0)	
Plecoptera (stoneflies)	5.0 (3.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	
Coleoptera (beetles)	12.0 (1.0)	43.0 (2.0)	34.0 (3.0)	8.0 (3.0)	
Oligochaeta (worms)	0.0 (0.0)	3.0 (2.0)	15.0 (2.0)	12.0 (2.0)	
Mollusca (clams and snails)	0.0 (0.0)	1.0 (1.0)	0.0 (0.0)	1.0 (1.0)	
Crustacea (crayfish, scuds, sowbugs)	0.0 (0.0)	0.0 (0.0)	6.0 (1.0)	0.0 (0.0)	
Other insects (odonates, diptera)	11.0 (4.0)	10.0 (5.0)	4.0 (2.0)	9.0 (5.0)	
Other (Nemertea, Platyhelminthes)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	2.0 (1.0)	
SPECIES RICHNESS	23	20	20	31	
BIOTIC INDEX	3.71	5.04	6.3	4.99	
EPT RICHNESS	12	4	4	9	
PERCENT MODEL AFFINITY	70	55	58	61	
FIELD ASSESSMENT	non	slight	slight	slight	
OVERALL ASSESSMENT	non-impacted	slightly impacted	slightly impacted	slightly impacted	

LABORATORY DATA SUMMARY					
STREAM NAME: Flint Creek		DRAINAGE: 07			
DATE SAMPLED: 07/16/02		COUNTY: Yates			
SAMPLING METHOD: Traveling Kick					
STATION	04	05	06	07	
LOCATION	Cole Corners	Stanley	Seneca Castle	Phelps	
DOMINANT SPECIES/%CONTRIBUTION/TOLERANCE/COMMON NAME					
Intolerant = not tolerant of poor water quality	1.	Hydropsyche betteni 26 % facultative caddisfly	Cheumatopsyche sp. 35 % facultative caddisfly	Cheumatopsyche sp. 24 % facultative caddisfly	Polypedilum flavum 19 % facultative midge
	2.	Cheumatopsyche sp. 18 % facultative caddisfly	Stenelmis crenata 25 % facultative beetle	Stenelmis crenata 20 % facultative beetle	Cheumatopsyche sp. 12 % facultative caddisfly
Facultative = occurring over a wide range of water quality	3.	Stenelmis crenata 17 % facultative beetle	Hydropsyche betteni 16 % facultative caddisfly	Tricorythodes sp. 13 % intolerant mayfly	Hydropsyche sparna 8 % facultative caddisfly
Tolerant = tolerant of poor water quality	4.	Cricotopus trifascia gr. 8 % facultative midge	Limnodrilus hoffmeisteri 6 % tolerant worm	Antocha sp. 12 % intolerant crane fly	Cricotopus tremulus gr. 6 % facultative midge
	5.	Cricotopus tremulus gr. 7 % facultative midge	Sphaerium sp. 6 % facultative clam	Hydropsyche bronta 9 % facultative caddisfly	Cricotopus vierriensis 6 % facultative midge
% CONTRIBUTION OF MAJOR GROUPS (NUMBER OF TAXA IN PARENTHESES)					
Chironomidae (midges)	23.0 (5.0)	4.0 (3.0)	5.0 (4.0)	51.0 (11.0)	
Trichoptera (caddisflies)	45.0 (3.0)	52.0 (3.0)	36.0 (3.0)	21.0 (3.0)	
Ephemeroptera (mayflies)	0.0 (0.0)	0.0 (0.0)	15.0 (2.0)	11.0 (6.0)	
Plecoptera (stoneflies)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	
Coleoptera (beetles)	20.0 (3.0)	26.0 (2.0)	22.0 (3.0)	8.0 (2.0)	
Oligochaeta (worms)	4.0 (1.0)	7.0 (2.0)	3.0 (2.0)	0.0 (0.0)	
Mollusca (clams and snails)	1.0 (1.0)	7.0 (2.0)	3.0 (1.0)	3.0 (2.0)	
Crustacea (crayfish, scuds, sowbugs)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	
Other insects (odonates, diptera)	4.0 (3.0)	4.0 (2.0)	15.0 (3.0)	4.0 (3.0)	
Other (Nemertea, Platyhelminthes)	3.0 (1.0)	0.0 (0.0)	1.0 (1.0)	2.0 (1.0)	
SPECIES RICHNESS	17	14	19	28	
BIOTIC INDEX	6.07	5.75	4.93	5.62	
EPT RICHNESS	3	3	5	9	
PERCENT MODEL AFFINITY	52	39	53	58	
FIELD ASSESSMENT	moderate	moderate	slight	moderate	
OVERALL ASSESSMENT	moderately impacted	moderately impacted	slightly impacted	slightly impacted	

Figure 4. THE 1996 PRIORITY WATERBODIES LIST FOR THE OSWEGO-SENECA-ONEIDA RIVER BASIN, FLINT CREEK

## FLINT CREEK

0704-0006

### Location Information

<b>Basin:</b>	Oswego-Seneca-Oneida (07)	<b>Resolution Potential:</b>	Medium
<b>Sub-Basin:</b>	Clyde River (04)	<b>Stream Class:</b>	A
<b>Seg Type:</b>	River	<b>7Q10 Flow:</b>	20-150 cfs
<b>Reg/County:</b>	8 / Yates (62)		
<b>USGS Quad:</b>	POTTER (K-12-1)		
<b>Seg Size:</b>	5.0 Miles		
<b>Description:</b>	Hamlet of Potter North to Ontario Co. line		

### Problem Information

(\* indicates the PRIMARY Use Impairment/Pollutant/Source)

Use Impairment(s)	Severity	Documentation
Water Supply *	Threatened	Poor
Fish Propagation	Threatened	Poor
Fish Survival	Threatened	Poor
<b>Type of Pollutant(s)</b>		
Pesticides *	Unknown Toxicity	Nutrients
Silt (Sediment)		
<b>Source(s) of Pollutant(s)</b>		
Agriculture *	Land Disposal	On-site Systems
Hydromodification	Streambank Erosion	Roadbank Erosion

### Resolvability

Condition Needs Verification

### Further Details

Use Impairment - The use of this water for water supply, fish propagation and fish survival is threatened due to the extensive use of pesticides in the watershed.

The Potter muck is 2500 acres of drained land that is all used for intensive cropping. Pesticides and nutrients from agricultural runoff is the primary concern.

Fisheries report that there are wild rainbow and brown trout in the reaches of the stream above Potter.

The Potter landfill is in this watershed. It is a potential source of unknown toxics.