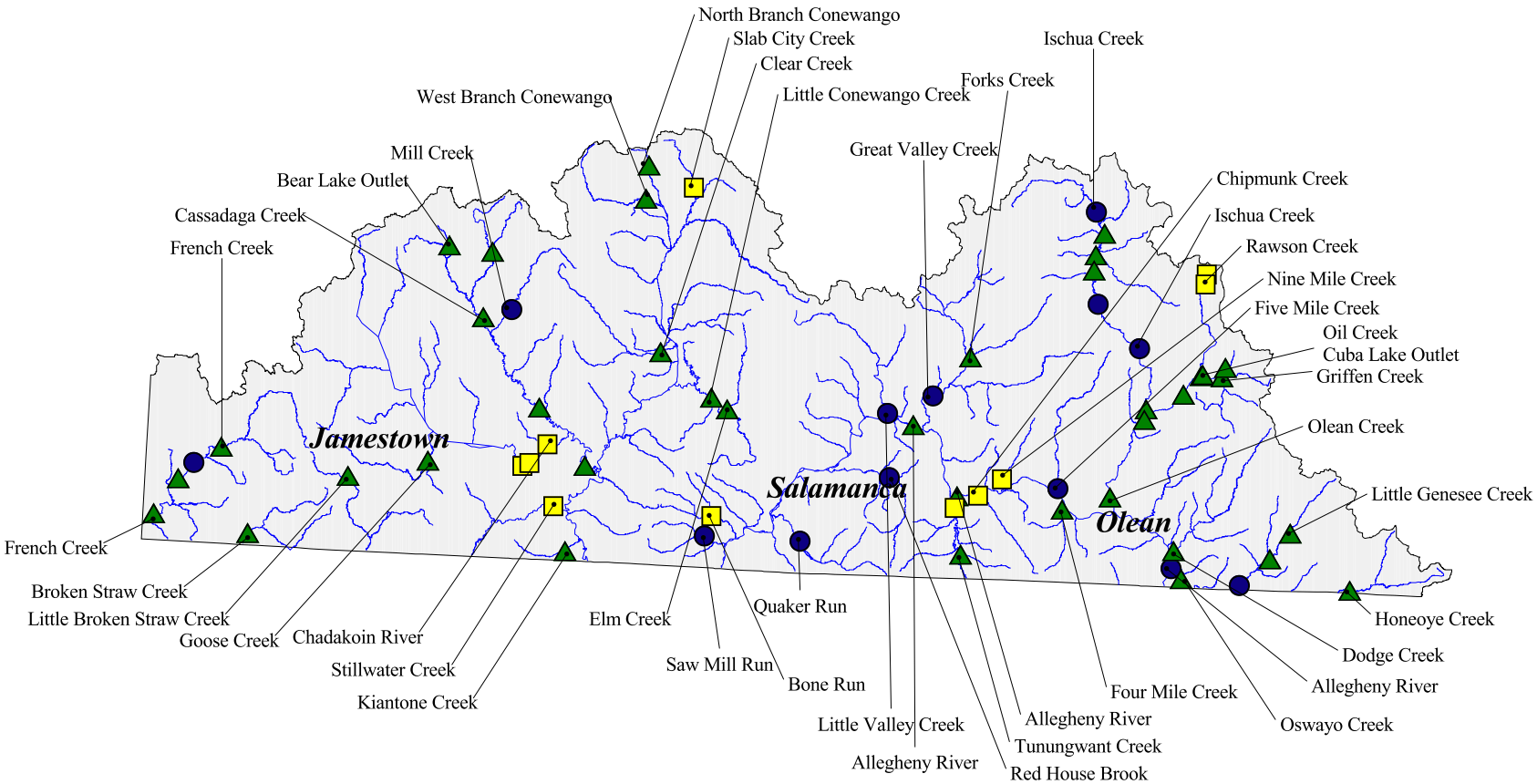
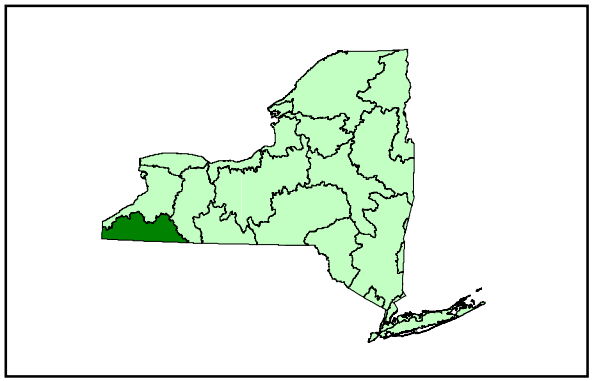
Allegheny River Drainage Basin





0 20 40 Miles

Water Quality Assessment based on Resident Macroinvertebrates

- non-impacted
- slightly impacted
- moderately impacted
- severely impacted

ALLEGHENY RIVER DRAINAGE BASIN SAMPLING SITES, 1972-2002

STATION	LOCATION	YEAR SAMPLED							
ALLEGHENY RIVER (ALGY)									
01	Mill Grove, below West River Rd. bridge	75	81	89	90	95	96	01	
02	Weston Mills, above Haskell Creek	75	81						
04	Olean, below Union St. (Rte. 16) bridge	75	81	89				01	
04A	Allegany, Allegany bridge		81						
05	Vandalia, above bridge	75	81						
06	Riverside Junction, below railroad bridge	75	81	89					
08	Salamanca, above Rte. 417 bridge	75	81	89	90				
08A	Salamanca, below Main St. bridge					95	96	01	02
09	Red House, old Route 17 bridge	75	81						
BEAR LAKE OUTLET (BRLO)									
01	Stockton, Rte. 58 bridge							01	
BONE RUN (BONE)									
01	Onoville, above Bone Run Rd. (Rte. 33)							01	
BROKEN STRAW CREEK (STRW)									
01	Clymer, above Knowltown Rd.							01	
CASSADAGA CREEK (CASS)									
00	Kabob, below Luce Rd. bridge							01	02
01	South Stockton, Rt. 56								02
03	Ross Mills, above Rte. 63 bridge					95		01	02
04	Falconer, Dolloff Rd.								02
CHADAKOIN RIVER (CHAD)									
01	Jamestown, below Main St. bridge					95			
02	Jamestown, below Windsor St. bridge					95			
03	Jamestown, above Buffalo St. bridge					95			
04	Falconer, below South Dow St. bridge			89	90	95			02
05	Falconer, below Work St. bridge					95	96	01	
CHIPMUNK CREEK (CHIP)									
01	South Vandailia, above South Nine Mile Rd. bridge							01	02
CLEAR CREEK (CLER)									
01	Clear Creek, above Rte. 67 bridge							01	
CONEWANGO CREEK (WANG)									
01	Kennedy, below Rte. 62 bridge			89	90	95		01	02
N	North Branch Conewango Ck, Wango, above Bartlett Hill Rd.							01	
W	West Branch Conewango Ck, Balcom Corners, below Rte. 87 bridge							01	

ALLEGHENY RIVER DRAINAGE BASIN SAMPLING SITES, 1972-2002

STATION	LOCATION	YEAR SAMPLED				
CUBA LAKE OUTLET (CUBA)						
01	Cuba, above Rte. 446 bridge				01	
DODGE CREEK (DODG)						
01	Portville, below Rte. 417 bridge	90			01	
ELM CREEK (ELMC)						
01	Randolph, above Weeden Rd. bridge				01	
FIVE MILE CREEK (FIVE)						
01	Allegany, below Rte. 417 bridge		96			
FORKS CREEK (FORK)						
01	Above Great Valley, above Martin Rd. bridge				01	
FOUR MILE CREEK (FORA)						
01	Allegany, above West River Rd.				01	
FRENCH CREEK (FREN)						
01	Marks Corners, above Marks Rd. Bridge		96			
02	St. Matthias Church, above Rte. 4 bridge		96			
03	French Creek, below Rte. 426 bridge		96			
04	Marvin, below Gilmore Rd. bridge		96		01	
GOOSE CREEK (GOOS)						
01	Ashville, Rte. 474				01	
GREAT VALLEY CREEK (GVAL)						
00	Ellicottville, below Martha Rd. bridge				01	
01	Above Kill Buck, above Rte. 219 bridge		96			
02	Kill Buck, below Rte 417 bridge					02
GRIFFEN CREEK (GRIF)						
01	Cuba, above Bull St. bridge					02
HONEOYE CREEK (HOYE)						
01	Alma, above unnamed Rd. off Rte. 18				01	
ISCHUA CREEK (ISCH)						
A	Above Franklinville, below Reynolds Rd. bridge			98		
01	Franklinville, below West Main St. Bridge			98		
01A	Above Franklinville, Ischua Valley Golf Course			98		
02	Cadiz, above Rte. 98 bridge	90		98	01	
03	Below Cadiz, Coal Chutes Rd. bridge	90		98		
05	Ischua, below Old Dutch Hill Rd. bridge			98		
07	Maplehurst, above Mill St. bridge			98	01	
KIANTONE CREEK (KIAT)						
01	Kiantone, below Kiantone Rd.				01	

ALLEGHENY RIVER DRAINAGE BASIN SAMPLING SITES, 1972-2002

STATION	LOCATION	YEAR SAMPLED						
LITTLE BROKEN STRAW (LSTR)								
01	Panama, above Rte. 33						01	
LITTLE CONEWANGO CREEK (WANG)								
L	Randolph, below Borden Rd. Ext.						01	
LITTLE GENESEE CREEK (LGEN)								
02	Bolivar, above STP	84						
03	Bolivar, below Bartlett Rd. bridge	84		90	95			
05	Below Bolivar, Coyle Rd. bridge	84						
06	Bolivar, above Obi Rd. bridge	84		90	95		01	
08	Bowler, above Rte. 417 bridge						01	
LITTLE VALLEY CREEK (LVAL)								
01	Salamanca, above Washington St. bridge					96		
MILL CREEK (MIL2)								
1	Sinclairville, below Rte. 60 bridge			90			01	
NINE MILE CREEK (NINA)								
01	Vandailia, above North Nine Mile Rd.						01	
OIL CREEK (OIL)								
01	Cuba, below Rte 305 bridge							02
02	Cuba, off Rte 446, opposite Cuba Lake Road			90				02
03	Below Cuba, off Rte 446							02
04	Hinsdale, above Rte 16 bridge						01	02
OLEAN CREEK (ALGY)								
03A	Olean, above Hastings Rd. bridge				95	96		02
03	Olean, below Rte. 16 (Main St.) bridge	81	89				01	
OSWAYO CREEK (WAYO)								
01	Mill Grove, East Carroll Rd.						01	
QUAKER RUN (QRUN)								
01	Cain Hollow, above Cain Hollow Rd. bridge						01	
RAWSON CREEK (RAWS)								
01	Rawson, above Porter Rd.						01	
02	Rawson, below Lynden Center Rd.						01	
RED HOUSE BROOK (REDH)								
01	Stoddard Hollow, Allegany State Park, above lake at covered bridge						01	02
SAW MILL RUN (SAWR)								
01	Onoville, above Saw Mill Run Rd.						01	

ALLEGHENY RIVER DRAINAGE BASIN SAMPLING SITES, 1972-2002

STATION	LOCATION	YEAR SAMPLED						
SLAB CITY CREEK (SLAB)								
01	South Dayton, below Bentley Rd. bridge							01
STILL WATER CREEK (STIL)								
01	Frewsburg, below Rte. 62							01
TUNUNGWANT CREEK (TUNG)								
1	Limestone, Limestone Run Rd. bridge				90	95	96	01
3	Irvine Mills, South Carolton Rd.	75	81	89				

ASSESSMENTS OF WATER QUALITY OF STREAMS IN THE ALLEGHENY RIVER DRAINAGE BASIN, BASED ON MACROINVERTEBRATE COMMUNITIES

Site/Reach	Water Quality Assessment	Change from 1992
Allegheny River, Mill Grove	non-impacted	**IMPROVED**
Allegheny River, Olean	slightly impacted	no change
Allegheny River, Salamanca, below Main St. bridge	slightly impacted	no prior data
Bear Lake Outlet, Stockton	slightly impacted	no prior data
Bone Run, Onoville	moderately impacted	no prior data
Broken Straw Creek, Clymer	slightly impacted	no prior data
Cassadaga Creek, Kabob	slightly impacted	no change
Cassadaga Creek, South Stockton	slightly impacted	no prior data
Cassadaga Creek, Ross Mills	slightly impacted	no prior data
Cassadaga Creek, Falconer	slightly impacted	no prior data
Chadakoin River, Jamestown, Main St.	moderately impacted	no prior data
Chadakoin R., Jamestown, Windsor St.	moderately impacted	no prior data
Chadakoin R., Jamestown, Buffalo St.	moderately impacted	no prior data
Chadakoin River, Falconer, S. Dow St.	moderately impacted	no change
Chadakoin River, Falconer, Work St.	moderately impacted	no prior data
Chipmunk Creek, South Vandailia	moderately impacted	no prior data
Clear Creek, Clear Creek	slightly impacted	no prior data
Conewango Creek, Kennedy	slightly impacted	**DECLINED**
Conewango Creek, North Branch, Wango	slightly impacted	no prior data
Conewango Creek, West Branch, Balcom Corners	slightly impacted	no prior data
Cuba Lake Outlet, Cuba	slightly impacted	no prior data
Dodge Creek, Portville	slightly impacted	**DECLINED**
Elm Creek, Randolph	slightly impacted	no prior data
Five Mile Creek, Allegany	non-impacted	no prior data
Forks Creek, above Great Valley	slightly impacted	no prior data
Four Mile Creek, Allegany	slightly impacted	no prior data
French Creek, Marks Corners	slightly impacted	no prior data
French Creek, St. Matthias Church	non-impacted	no prior data
French Creek, French Creek	slightly impacted	no prior data
French Creek, Marvin	slightly impacted	no prior data
Goose Creek, Ashville	slightly impacted	no prior data

ASSESSMENTS OF WATER QUALITY OF STREAMS IN THE ALLEGHENY RIVER DRAINAGE BASIN, BASED ON MACROINVERTEBRATE COMMUNITIES

Site/Reach	Water Quality Assessment	Change from 1992
Great Valley Creek , Ellicottville	[unassessed]	no prior data
Great Valley Creek , above Kill Buck	non-impacted	no prior data
Great Valley Creek , Kill Buck	non-impacted	no prior data
Griffen Creek , Cuba	slightly impacted	no prior data
Honeoye Creek, Alma	slightly impacted	no prior data
Ischua Creek, Franklinville	slightly impacted	no prior data
Ischua Creek, Above Franklinville, below Reynolds Rd.	non-impacted	no prior data
Ischua Creek, Above Franklinville	slightly impacted	no prior data
Ischua Creek, Cadiz	slightly impacted	**DECLINED**
Ischua Creek, Below Cadiz	non-impacted	**IMPROVED**
Ischua Creek, Ischua	non-impacted	no prior data
Ischua Creek, Maplehurst	slightly impacted	no prior data
Kiantone Creek, Kiantone	slightly impacted	no prior data
Little Broken Straw Creek, Panama	slightly impacted	no prior data
Little Conewango Creek, Randolph	slightly impacted	no prior data
Little Genesee Creek, Bolivar, below Barlett Rd.	slightly impacted	**IMPROVED**
Little Genesee Creek, Bolivar, above Obi Rd.	slightly impacted	no change
Little Genesee Creek, Bowler	non-impacted	no prior data
Little Valley Creek, Salamanca	non-impacted	no prior data
Mill Creek, Sinclairville	non-impacted	**IMPROVED**
Nine Mile Creek, Vandailia	moderately impacted	no prior data
Oil Creek, Cuba, below Rte 305	moderately impacted	no prior data
Oil Creek, Cuba, off Rt. 446	slightly impacted	no prior data
Oil Creek, below Cuba	slightly impacted	**DECLINED**
Oil Creek, Hinsdale	slightly impacted	no prior data
Olean Creek, Olean, above Hastings Rd.	non-impacted	no prior data
Olean Creek, Olean, below Rte. 16	non-impacted	no change
Oswayo Creek, Mill Grove	slightly impacted	no prior data
Quaker Run, Cain Hollow	non impacted	no prior data
Rawson Creek, Rawson, above Porter Rd	moderately impacted	no prior data

ASSESSMENTS OF WATER QUALITY OF STREAMS IN THE ALLEGHENY RIVER DRAINAGE BASIN, BASED ON MACROINVERTEBRATE COMMUNITIES

Site/Reach	Water Quality Assessment	Change from 1992
Rawson Creek, Rawson, below Lyndon Center Rd	moderately impacted	no prior data
Red House Brook, Stoddard Hollow	non-impacted	no prior data
Saw Mill Run, Onoville	non-impacted	no prior data
Slab City Creek, South Dayton	slightly impacted	no prior data
Stillwater Creek, Frewsburg	moderately impacted	no prior data
Tunungwant Creek, Limestone	slightly impacted	no change

REPORTS OF MACROINVERTEBRATE SURVEYS WITHIN THE ALLEGHENY RIVER WATERSHED

STREAM	YEAR OF SURVEY	REPORT
Allegheny River	1969	DOH
Allegheny River	1975	DOH
Chadakoin River	1995	SBU,1996
French Creek	1996	SBU,1997
Ischua Creek	1975	AVON
Ischua Creek	1998	SBU,1999
Oil Creek	1975	AVON
Oil Creek	2002	SBU,2003
Olean Creek	1975	AVON
Little Genesee Creek	1984	SBU,1984
Rawson Creek	2001	SBU,2002
Watershed Streams	1989-1990	RIBS,1992
Watershed Streams	1995-1996	RIBS,1999

AVON	Avon Pollution Investigations Unit, Div. of Fish & Wildlife, NYS DEC
DOH	New York State Department of Health
RIBS	Rotating Intensive Basin System, Statewide Waters Assessment Section, NYS DEC
SBU	Stream Biomonitoring Unit, Division of Water, NYS DEC

Allegheny River

The Allegheny River at Mill Grove has been sampled for many years to monitor water quality as the river enters New York from Pennsylvania. Moderate impacts were documented in multiplate samples from 1975, 1981, and 1989. Oil was the suspected cause of impact, and caddisflies were collected downstream in 1975 with their gills impregnated with oil, although this condition was not found in later years (Bode et al., 1993). Water quality was assessed as only slightly impacted in 1990 and 1995, and again as moderately in 1996. Sampling in 2001 showed water quality to be non-impacted, with high numbers of mayflies present. Metrics from kick samples of the 1990's and 2000's cannot be compared directly to metrics from multiplate samples of the 1970's and 1980's. However, kick samples from 1981-2001 show a possible increase in species richness over the years, typifying improving water quality at the site (Figure 2-1). A series of Allegheny River kick samples in 1981, starting at this site, was the first by the Stream Biomonitoring Unit, and led to the development of the Rapid Assessment methodology in New York State two years later.

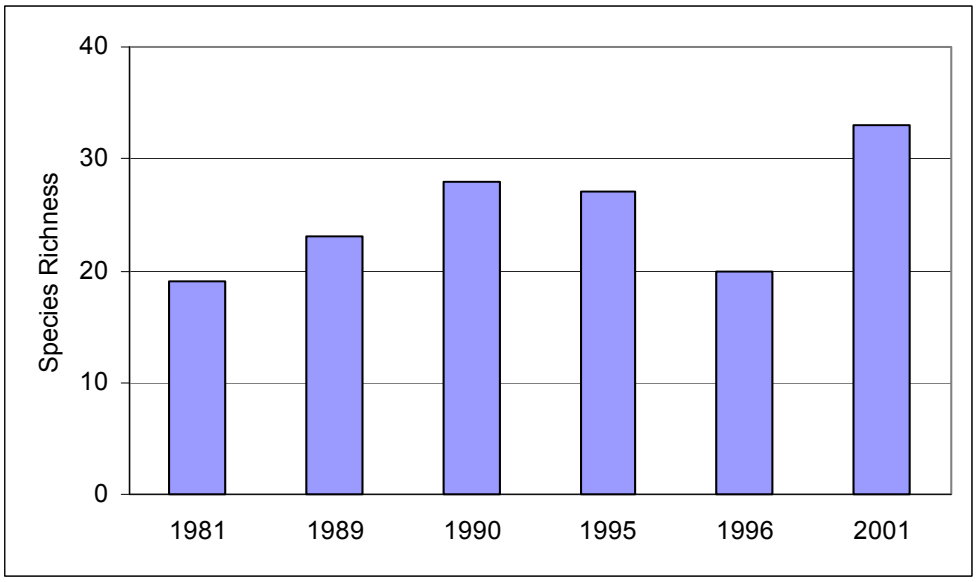


Figure 2-1. Species richness in the Allegheny River at Mill Grove, 1981-2001.

Water quality in the Allegheny River at Salamanca has remained at slightly impacted since 1975. One exception was in 1996, when sampling yielded an assessment of non-impacted. That year was one of high flows, which likely diluted any point sources responsible for impacts at this site. Macroinvertebrate faunas have mostly been dominated by filter-feeding caddisflies, midges, and black fly larvae, indicating nutrient enrichment possibly caused by organic waste inputs.

Bear Lake Outlet

The stream was sampled in 2001 at Stockton, and was assessed as slightly impacted. The fauna was dominated by scuds, and was likely influenced by impoundment effects. Most of the stream was slow-moving, and any impacts were considered to be habitat-related.

Bone Run

This small stream was assessed as moderately impacted, based on macroinvertebrate sampling in 2001. The fauna included mayflies, stoneflies, and caddisflies, but was heavily dominated by riffle beetles, and indicated nonpoint source nutrient enrichment. Siltation also appeared to be a factor at this site.

Broken Straw Creek

A site sampled for macroinvertebrates at Clymer in 2001 yielded an assessment of slight impact. The fauna was dominated by filter-feeding caddisflies, strongly indicating nonpoint source nutrient enrichment.

Cassadaga Creek

Slightly impacted water quality is assessed for Cassadaga Creek from Kabob to Falconer. Four sites were sampled for macroinvertebrates in 2002. Unspecified municipal/industrial inputs were indicated to be the primary stressor at most sites, and nonpoint source nutrient enrichment was also indicated. Previous sampling at the Ross Mills site in 1995 and 2001 also denoted slight impact. Because the substrates at the Kabob and South Stockon sites were substantially different, sandy stream criteria were used to evaluate these data.

Chadakoin River

Water quality in the Chadakoin River has been assessed as moderately impacted, for all years except the high-flow year of 1996 when it was assessed as slightly impacted. Monitoring at the downstream location in Falconer has varied between the Dow Street bridge and the Work Street bridge, although these are only 0.6 miles apart. Elevated levels of metals and PAHs have been documented in the river sediments and in invertebrate tissues. In a 1995 macroinvertebrate study of 5 sites from Jamestown to Falconer, all sites were assessed as moderately impacted except the Dow Street site, although this site was just within the limits of the slightly impacted category. Most samplings have indicated municipal/industrial inputs as the primary stressor.

Chipmunk Creek

A site on Chipmunk Creek in South Vandailia was sampled for macroinvertebrates in 2001 and 2002. The 2001 assessment denoted moderate impact, apparently from nonpoint source nutrient enrichment. The fauna was dominated by midges and riffle beetles, with few mayflies or stoneflies. No prior data were available for this stream.

Clear Creek

This stream was sampled in the town of Clear Creek in 2001. The water quality assessment was slightly impacted, although the Impact Source Determination showed high affinities to a natural community. Nonpoint source runoff from dairy farms is a likely influence on the stream.

Conewango Creek

Conewango Creek in Kennedy has been sampled several times since 1989. Most assessments were of slight impact, except for 1990, when it was assessed as non-impacted. Macroinvertebrate communities from most years are dominated by filter-feeding caddisflies and nonpoint source nutrient enrichment is the likely cause of impact. Sampling of the North Branch and West Branch of Conewango Creek in 2001 yielded assessments of slightly impacted.

Cuba Lake Outlet

This stream in the town of Cuba was sampled for macroinvertebrates in 2001. The site was one mile downstream of Cuba Lake, and impoundment effects persisted. The fauna was dominated by filter-feeding caddisflies, and water quality was assessed as slightly impacted.

Dodge Creek

Dodge Creek was sampled near its mouth in Portville in 1990 and 2001. In 1990 it was assessed as non-impacted, and in 2001 it was assessed as slightly impacted, by nonpoint source nutrient enrichment and siltation. This may represent a decline in water quality, although to date it is documented by only two samplings. Further monitoring is recommended at this site to determine if the trend is genuine.

Elm Creek

This small stream was sampled in Randolph in 2001. Water quality was assessed as slightly impacted, near the top of that category. The fauna was dominated by riffle beetles and midges, although mayflies and stoneflies were also present. Impacts were apparently from nonpoint source nutrient enrichment.

Five Mile Creek

This stream was sampled in the town of Allegany in 1995. The macroinvertebrate sample passed screening criteria, and therefore was considered to be non-impacted, and was not retained. When the stream was inspected in 2001, some sections were dry and some sections consisted of standing water, and no sample was taken.

Forks Creek

A macroinvertebrate sample taken near Great Valley in 2001 indicated slight impact, likely from nonpoint source nutrient enrichment. The fauna was dominated by riffle beetles, and also included mayflies, stoneflies, and caddisflies.

Four Mile Creek

This creek was sampled for macroinvertebrates in 2001, and water quality was assessed as slightly impacted. The fauna was dominated by riffle beetles, and apparently reflected nonpoint source nutrient enrichment.

French Creek

Four sites were sampled on French Creek in a 1996 survey. Water quality varied between non-impacted and slightly impacted, reflecting nonpoint source nutrient enrichment and siltation. The site at Marvin was sampled again in 2001, and indicated slight impact from nonpoint sources.

Goose Creek

Based on a macroinvertebrate sample from Ashville in 2001, water quality was assessed as slightly impacted. The fauna appeared to reflect toxic stress, although impoundment effect was also a factor. No prior data was available for this site.

Great Valley Creek

Non-impacted water quality is assessed for this creek, based on sampling at 2 downstream sites in 1996 and 2002 The macroinvertebrate fauna in both samples was dominated by clean-water mayflies. A sample taken upstream near Ellicottville in 2001 appeared initially to indicate moderate impact, but this assessment likely reflects intermittent flow conditions in the creek.

Griffen Creek

Slightly impacted water quality was assessed for this tributary of Oil Creek, based on macroinvertebrate sampling in Cuba in 2002. Nonpoint source runoff was the likely cause of impact, and siltation was also a factor. Conductivity was elevated at this site (1250 µmhos/cm), and the fauna was dominated by facultative midges.

Honeoye Creek

Based on a macroinvertebrate sample taken at Alma in 2001, water quality was assessed as slightly impacted. Nonpoint nutrient enrichment and siltation were the likely sources of impact.

Ischua Creek

A 1998 sampling of macroinvertebrates at seven sites on Ischua Creek documented water quality ranging from non-impacted to slightly impacted. Improvement was indicated at a site at Cadiz, which had been assessed as slightly impacted in a 1975 DEC study. The improvement was attributed to the 1987 upgrade of the Franklinville sewage treatment facility. This site was assessed as non-impacted in 1990 and 1998 samplings, but slight impact was indicated in the 2001 sampling, possibly due to very low flows. The downstream site at Maplehurst also was assessed as non-impacted in 1998, but slightly impacted in 2001. ISD denoted nutrient enrichment as the primary stressor.

Kiantone Creek

This small stream was sampled at the town of Kiantone in 2001. Water quality was assessed as slightly impacted, likely due to nonpoint source nutrient enrichment. The fauna was dominated by filter-feeding caddisflies.

Little Broken Straw Creek

Based on macroinvertebrate sampling in 2001, water quality was assessed as slightly impacted. The macroinvertebrate community was dominated by mayflies, and was most similar to natural communities and secondarily to nutrient-enriched communities. The impact is considered minor, and may be mostly due to low flows and slow current speeds.

Little Conewango Creek

Non-impacted water quality was assessed for this small stream, sampled in Randolph in 2001. Sandy stream criteria were used to evaluate the data from this site, as the stream substrate consisted primarily of sand, silt, and clay. The fauna was dominated by midges and caddisflies.

Little Genesee Creek

Water quality at Bolivar was determined in 1995 to be slightly impacted, an improvement from 1984 and 1990, when moderate impact was caused by the Bolivar (V) Sewage Treatment Plant. A new treatment plant was built in 1991, with activated sludge treatment. The improvement is illustrated by the decline in the percent contribution of sewage-tolerant worms, which declined from 70% in 1984 to 2% in 1995 (Figure 2-2). At the town of Little Genesee, water quality has been assessed as slightly impacted for all years. The impact may represent residual effects from Bolivar, in addition to nonpoint source nutrient enrichment from the golf course immediately upstream. A site at Bowler, near the mouth, was sampled in 2001, and was determined to be non-impacted.

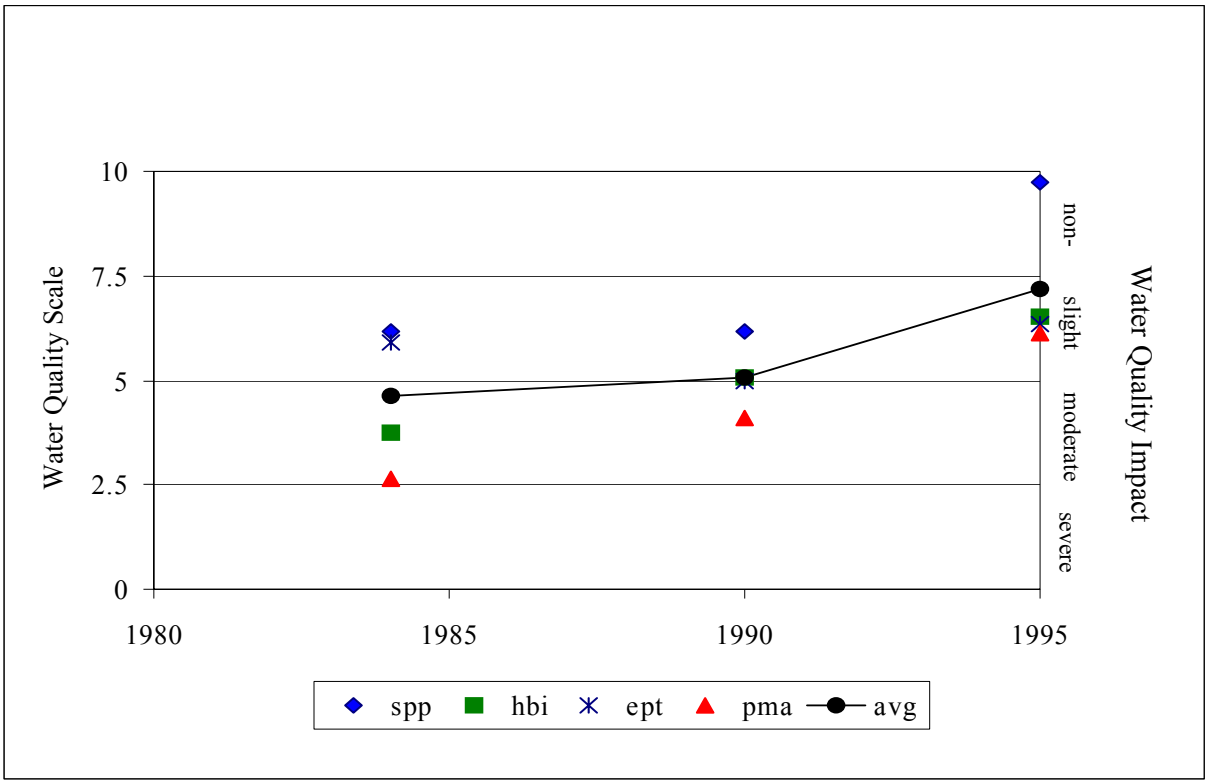


Figure 2-2. Water quality in Little Genesee Creek, 1984-1995. SPP= species richness, HBI= Hilsenhoff biotic index, EPT= richness of mayflies, stoneflies, and caddisflies, PMA- Percent Model Affinity, AVG= Biological Assessment Profile value.

Little Valley Creek

This creek was sampled in 1996 and was determined to be non-impacted. The macroinvertebrate fauna was dominated by midges and worms, with caddisflies and stoneflies also present.

Mill Creek

Mill Creek in Sinclairville was assessed as slightly impacted in 1990, and non-impacted in 2001. Impact Source Determination indicated nonpoint source nutrient enrichment. Since 2001 was a low-flow year, less runoff apparently resulted in less impacts, resulting in the non-impacted assessment. Further monitoring at this site is recommended to determine long-term water quality trends for the stream.

Nine Mile Creek

Based on macroinvertebrate sampling in 2001, water quality was assessed as moderately impacted. The site habitat had been modified, bulldozed upstream and downstream of the section sampled, and flow was very low. The water had a gray appearance of sewage. The macroinvertebrate fauna was heavily dominated by midges (93%), resembling no community model in Impact Source Determination, but containing many sewage-tolerant species. Based on the midge species present, effects of sewage wastes are suggested. Further sampling is recommended to monitor water quality at this site.

Oil Creek

Current water quality in Oil Creek ranges from slightly impacted to moderately impacted. In 2002, a multi-site survey of four sites from Cuba to Hinsdale found moderate conditions at Cuba and slightly impacted conditions at all downstream sites. The moderate impact appeared to indicate effects of organic wastes. Slight impact measured downstream of Cuba represents an apparent decline in water quality compared to non-impacted conditions at this site documented in 1990. A downstream site at Hinsdale sampled in 2001 was assessed as slightly impacted by nonpoint source nutrient enrichment.

Olean Creek

Olean Creek is currently assessed as non-impacted as in 1989 sampling. The creek has been monitored at two sites - Main Street in Olean, and at Hastings Road, approximately two miles upstream. Assessments of non-impacted conditions were documented at the Hastings Road bridge for 1995 and 1996. The 2001 sample from the Main Street site was analyzed using sandy stream criteria, and was also assessed as non-impacted.

Oswayo Creek

Based on macroinvertebrate sampling at Mill Grove in 2001, water quality is assessed as slightly impacted. The community was teeming with invertebrate life and diatoms. Filter-feeding caddisflies and midges dominated, indicating nonpoint source nutrient enrichment. No prior data were available for this site.

Quaker Run

Water quality was clearly non-impacted at Cain Hollow, based on macroinvertebrate sampling in 2001. The macroinvertebrate fauna was dominated by clean-water mayflies, with stoneflies and caddisflies well-represented. No prior data were available for this site.

Rawson Creek

This small stream at Rawson was sampled at two sites in 2001, upstream and downstream of a recent spill of silage leachate. Although both sites were assessed as moderately impacted, a significant biological impairment was documented downstream of the spill site. Dissolved oxygen levels in the stream declined from 7.8 mg/l upstream to 1.1 mg/l downstream. Impacts at the upstream site were likely due to impoundment effects. Re-sampling of the sites is planned to document recovery once the problem is remediated.

Red House Brook

Water quality was assessed as non-impacted for this stream located in Allegany State Park, based on macroinvertebrate sampling in 2001. The macroinvertebrate fauna was dominated by clean-water mayflies, with stoneflies and caddisflies well-represented. No prior data were available for this site.

Saw Mill Run

This stream was sampled at Onoville in 2001, and water quality was assessed as non-impacted. The fauna was dominated by mayflies and caddisflies, with stoneflies well-represented. The stream was considered somewhat enriched by nonpoint source nutrients. No prior data were available for this site.

Slab City Creek

This small stream was sampled in South Dayton in 2001. Habitat was considered poor, and sandy stream criteria were used to evaluate the fauna. Based on these, water quality was assessed as slightly impacted, with the fauna likely being controlled primarily by siltation. No prior data were available.

Still Water Creek

Water quality was assessed as moderately impacted, based on 2001 macroinvertebrate sampling at Frewsburg. Metric values were near the top of this category. The fauna was dominated by riffle beetles and filter-feeding midges and caddisflies, reflecting nonpoint source nutrient enrichment. No prior data were available for this site.

Tunungwant Creek

Sampling in Tunungwant Creek from 1975-1989 was conducted at Irvine Mills. Moderate impact was found, due to a combination of oil, poor habitat, and possible effects from the discharge of the Limestone (V) Wastewater Treatment Facility, located approximately 3 miles upstream. Beginning in 1990, sampling has been conducted at Limestone, an upstream location with better habitat. Water quality at this site has been assessed as slightly impacted, with the exception of 1995, a dry year, when it was assessed as moderately impacted. The fauna is heavily dominated by riffle beetles and filter-feeding caddisflies, reflecting nonpoint source nutrient enrichment.