

Appendix A

Fishes of the Cowaselon Creek Watershed

Unless other wise noted, all photos are from fish collected during this survey..



Atlantic salmon - *Salmon salar*



Brown trout - *Salmo fario*



Brook trout - *Salvelinus fontinalis*



White sucker - *Catostomus commersoni*



Northern hog sucker - *Hypentelium nigricans*



Shorthead redhorse - *Moxostoma macrolepidotum*
Image from: Kraft, Carlson and Brown. 2003.



Common carp - *Cyprinus carpio*
Image from: <http://www.dec.state.ny.us/website/dfwmr/fish/fishspecs/carpadult.gif>



Emerald shiner- *Notropis atherinoides*



Blacknose dace - *Rhinichthys atronasus*



Longnose dace - *R. catractae*



Creek chub - *Semotilus atromaculatus*



Image from:
<http://www.dec.state.ny.us/website/dfwmr/fish/fishspecs/cutlipsminnow.gif>



Cutlips minnow - *Exoglossum maxillingua*



Brown bullhead - *Ameiurus nebulosus*



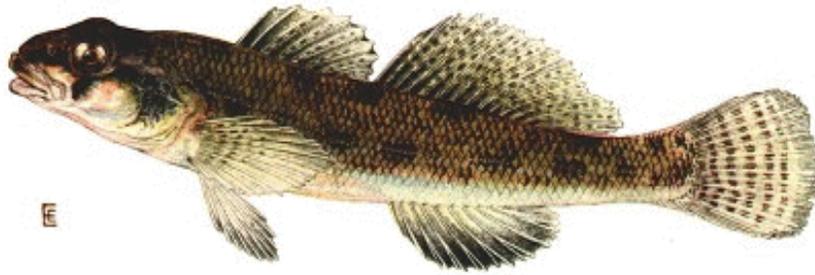
Yellow perch - *Perca flavescens*



Walleye - *Sander vitreus*



Logperch - *Percina caprodes*



Tessellated darter - *Boleosma nigrum olmstedii*
Image from: Kraft, Carlson and Brown. 2003.



Smallmouth bass - *Micropterus dolomieu*



Largemouth bass - *Micropterus salmoides*



Pumpkinseed - *Eupomotis gibbosus*



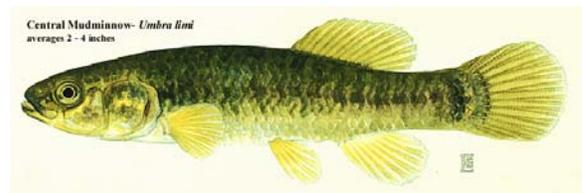
Rock bass - *Ambloplites repestris*



Mottled sculpin - *Cottus bairdii*



Trout perch - *Percopsis omniscomaycus*

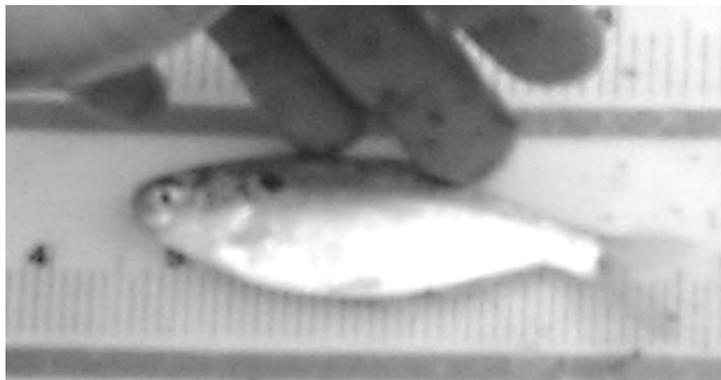


Central mudminnow *Umbra limi*

Image from: <http://www.dec.state.ny.us/website/dfwmr>



Gizzard shad - *Dorosoma cepedianum*



Freshwater drum - *Aplodinotus grunniens*

Appendix B

Site Specific Sampling Efforts

Figure 1. Fish Survey Locations.

Table 1. Species collected by location.

Stream Survey

Location: Douglas Ditch downstream of Gee Road and Canaseraga Creek from the Douglas Ditch to Lakeport. **Date:** August 8, 2001.

Stream Survey

Location: Owlville Creek near Beebee Bridge Road; Owner Dominick Perretta
Date: September 18, 2001

Stream Survey

Location: Douglas Ditch/Cowaselon Creek
Date: April 3, 2002

Stream Survey

Location: Canaseraga Creek north of Perryville Falls; Owner - John Patane
Date: June 6, 2002

Stream Survey

Location: Canastota Creek near the North Country National Scenic Trail/Link Trail's Canastota Creek Bridge Project.
Date: October 9, 2002

Stream Survey

Location: Clockville Creek west of Oxbow Road
Date: October 25, 2002

Stream Survey

Location: Cowaselon Creek upstream of North Court Road; Owner - Richard Carrier
Date: November 11, 2002

Stream Survey

Location: Douglas Ditch (3 locations): downstream of Gee Road; downstream of Tackberry Road; downstream of Hardwood Island Bridge.
Date: April 22, 2003

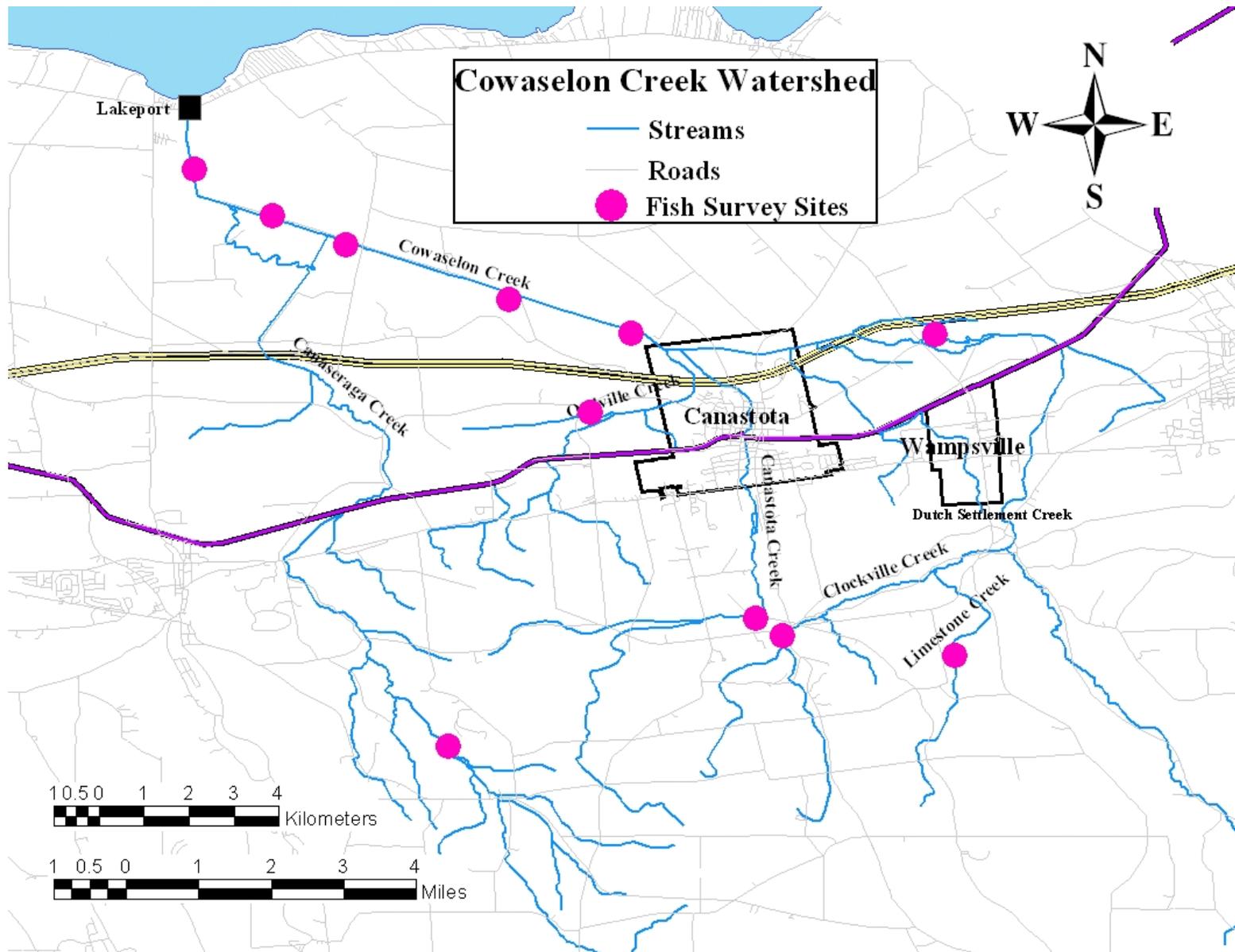


Figure 1. Fish Survey Locations.

Table 1. Species collected by location.

Species:	Location:	Cowaselon Creek & Douglas Ditch	Douglas Ditch	Cowaselon Creek	Owlville Creek	Canaseraga Creek	Canastota Creek	Clockville Creek
	Date:	08/08/01	04/03/02	11/02/02	09/18/01	06/06/02	10/09/02	10/25/02
Atlantic salmon		X						
Brown trout			X	X		X	X	X
Brook trout						X		X
White sucker		X	X		X			
Northern hog sucker				X	X		X	
Shorthead redhorse		X						
Common carp		0						
Emerald shiner		X						
Blacknose dace						X	X	
Longnose dace					X	X		X
Creek chub				X	X		X	
Cutlips minnow					X			
Brown bullhead		X			X			
Yellow perch		X		X				
Walleye		X	X					
Logperch		X						
Tessellated darter		X		X	X			
Smallmouth bass		X	X	X				
Largemouth bass		X						
Pumpkinseed		X		X				X
Rock bass		X						
Mottled sculpin						X	X	X
Trout perch		X						
Central mudminnow					X			
Gizzard shad					X			
Freshwater drum		X						

X = collected; 0 = observed

Notes: 08/08/01 sample combines 2 adjacent locations; 04/03/02 sample combines 1 trap net and 1 hoop net sample; Limestone Creek was electrofished on 10/25/02 with no fish collected; 04/22/03 - no fish were caught in gills nets set downstream of Hardwood Island, Tackberry, and Gee Rd. bridges

Stream Survey

Location: Douglas Ditch downstream of Gee Road and Canaseraga Creek from the Douglas Ditch to Lakeport. **Date:** August 8, 2001 **Water Temperature:** 24 C **Substrate:** Clay/silt

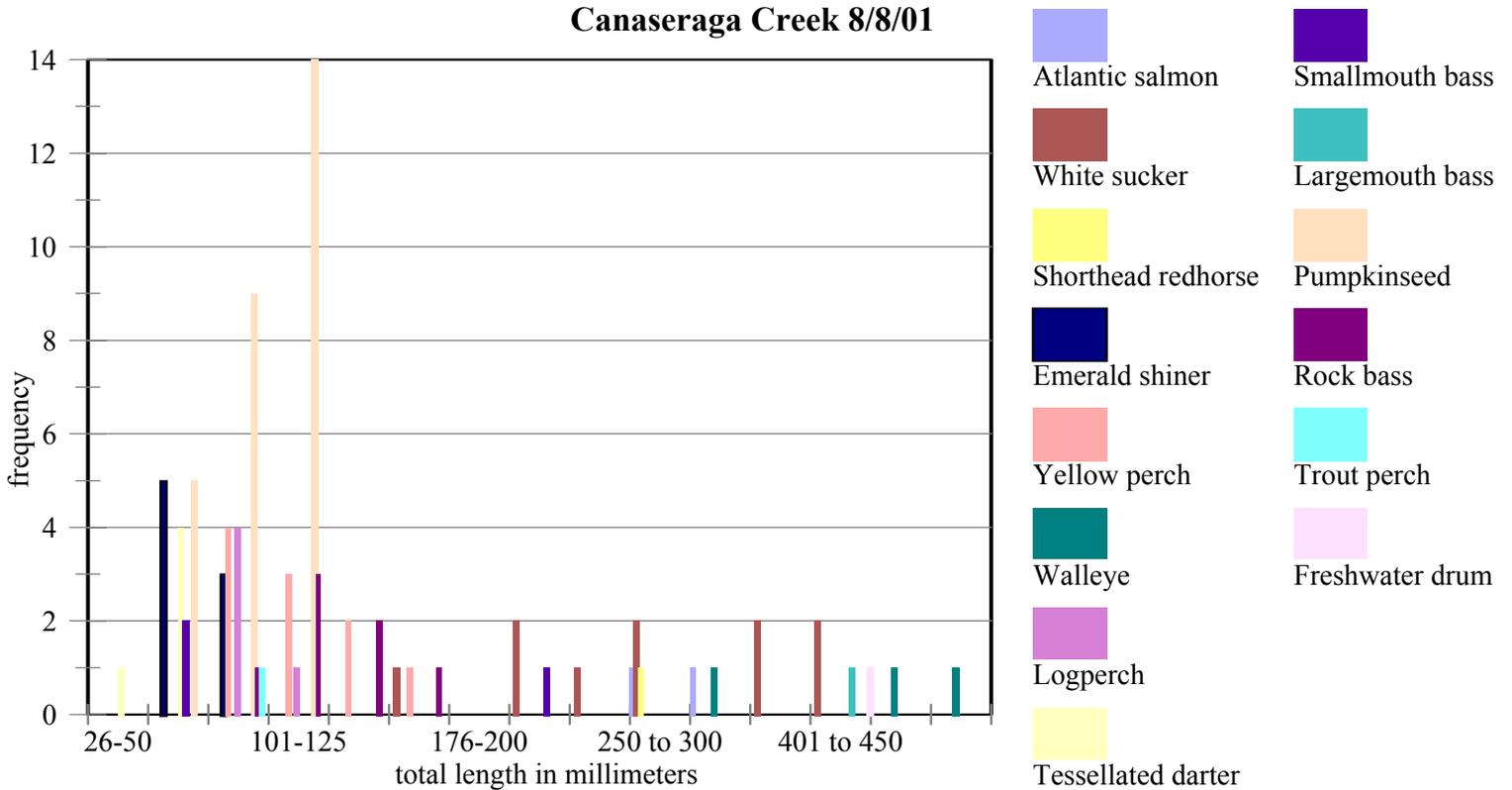
Reach Length: approximately 2 miles (3.2 km) **Method:** Boat Electrofisher

Effort: approximately 2 hours 15 minutes combined

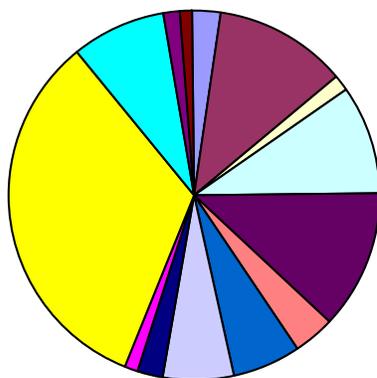
Survey Participants: Dave Bryson, Chris Lowie, Kevin Bliss (NYSDEC)

Stream Survey

**Fish Survey of Douglas Ditch -
Canaseraga Creek 8/8/01**



**August 8, 2001 fishery sample of Douglas Ditch
and Canaseraga Creek**

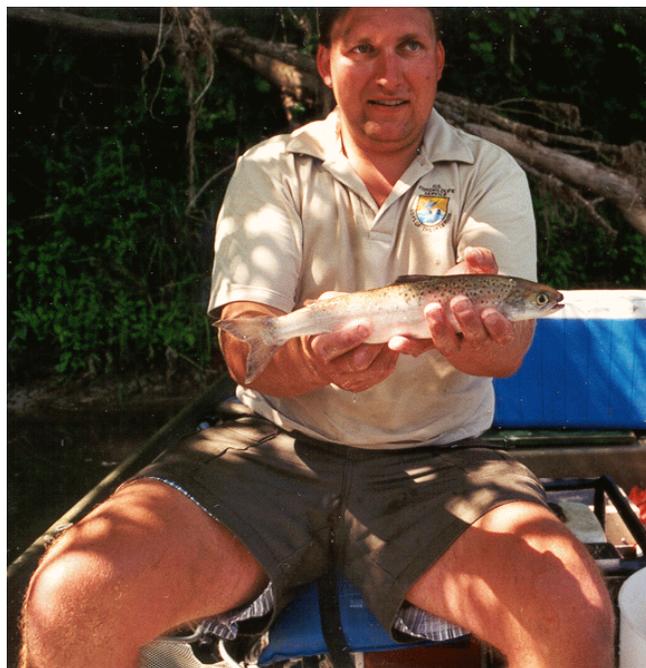


- Atlantic salmon
- White sucker
- Shorthead redhorse
- Emerald shiner
- Yellow perch
- Walleye
- Logperch
- Tessellated darter
- Smallmouth bass
- Largemouth bass
- Pumpkinseed
- Rock bass
- Trout perch

Location: Douglas Ditch downstream of Gee Road and Canaseraga Creek from the Douglas Ditch to Lakeport.



View of lower portion of the Douglas Ditch downstream from Ditch Bank Road.



Biologist Chris Lowie displays an Atlantic salmon.

Stream Survey

Location: Owlville Creek near Beebee Bridge Road; Owner Dominick Perretta

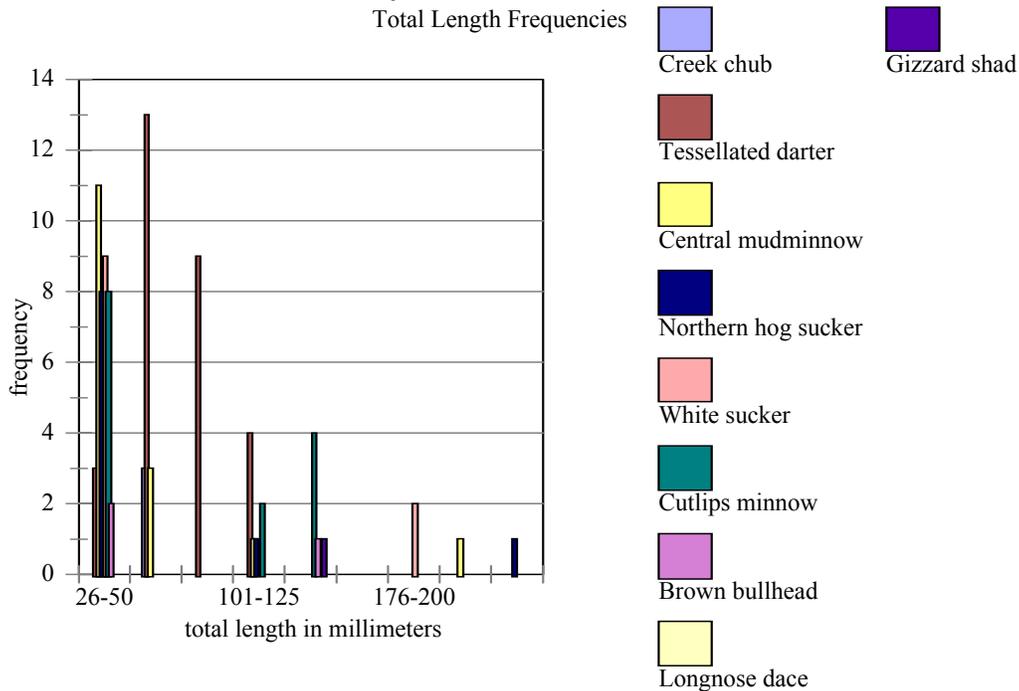
Date: September 18, 2001 **Water Temperature:** Not recorded.

Reach Length: approximately 200 feet **Substrate:** Silt and sand

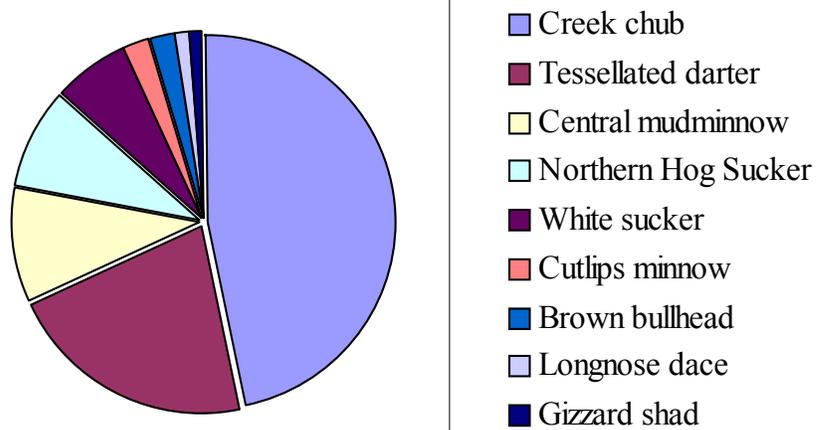
Collection Method: Back Pack Electrofisher **Effort:** 46 minutes

Survey Participants: Dave Bryson and Alex Chmielewski

Fish Survey of Owlville Creek 9/18/01



September 18, 2001, fishery sample of Owlville Creek downstream of Beebee Bridge Road



Stream Survey

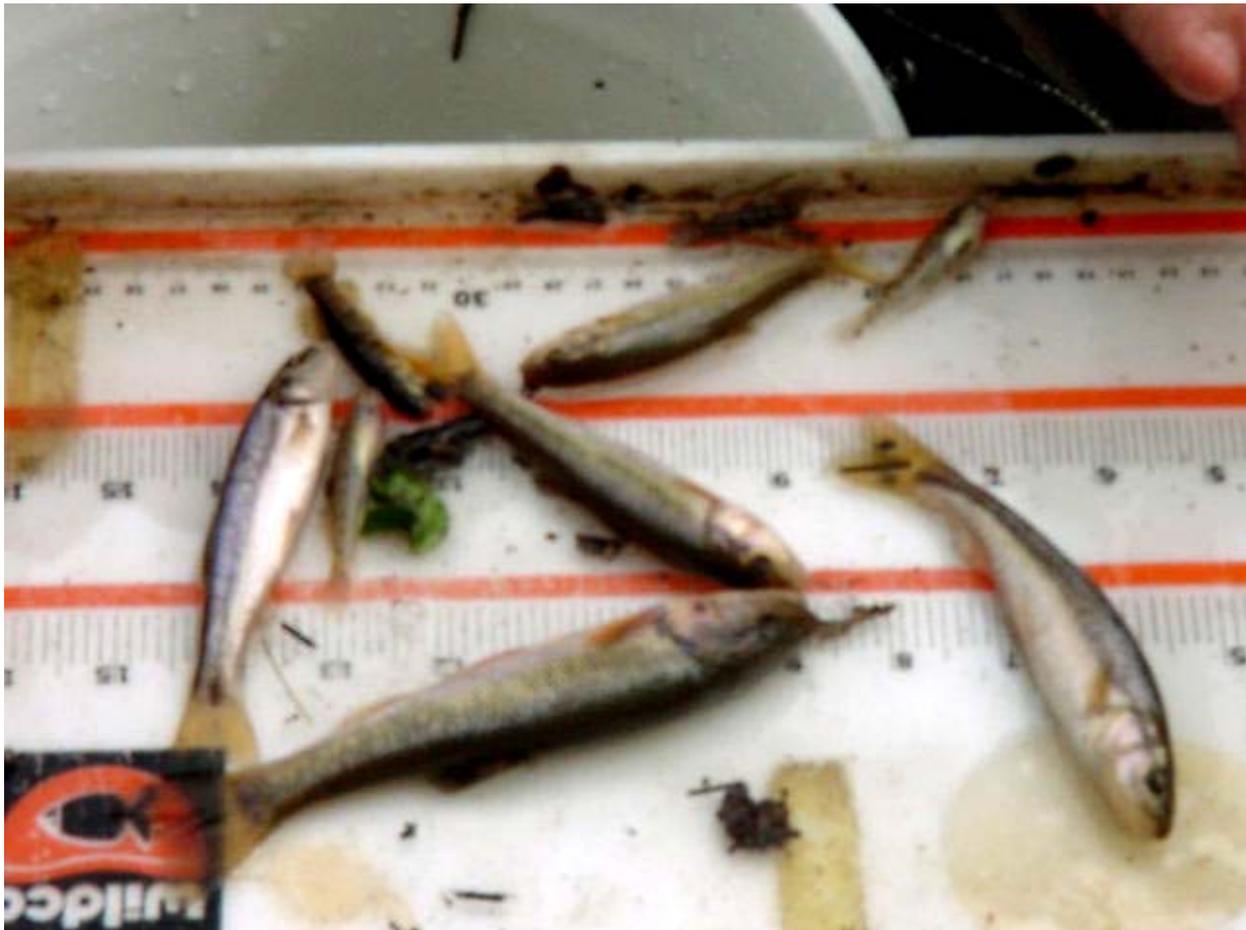
Location: Owlville Creek near Beebee Bridge Road



Landowner Dominick Perretta with large creek chub.



Brown bullhead collected from creek.



Mixed assemblage of non-game fish species including creek chubs, tessellated darters, and a mudminnow.

Stream Survey

Location: Douglas Ditch/Cowaselon Creek

Date: April 3, 2002 **Water Temperature:** 45 F (7C)

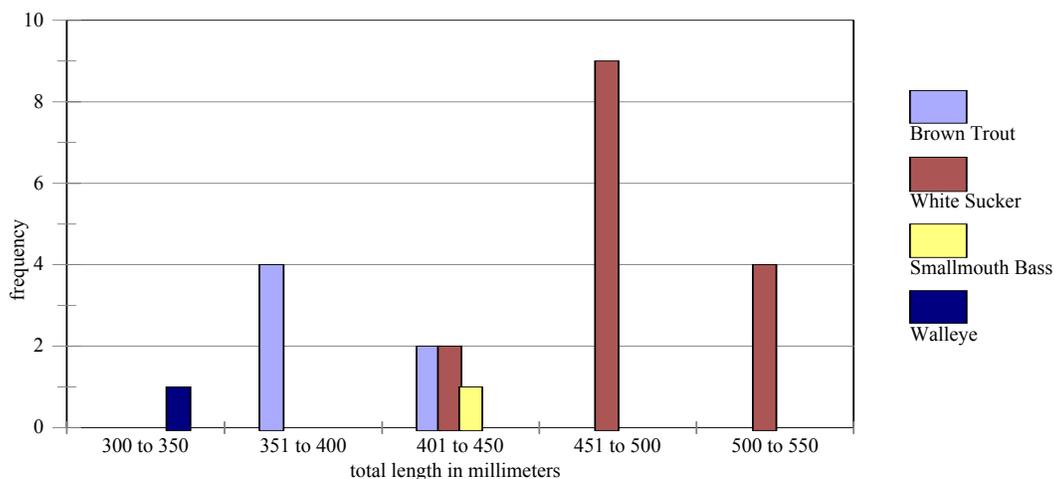
Reach Length: Not Applicable **Substrate:** Clay and silt

Collection Method: Hoop net with 24-inch wide opening, 2-inch mesh, 12-foot-long set downstream of Tackberry Road; trap net set downstream of Hardwood Island bridge

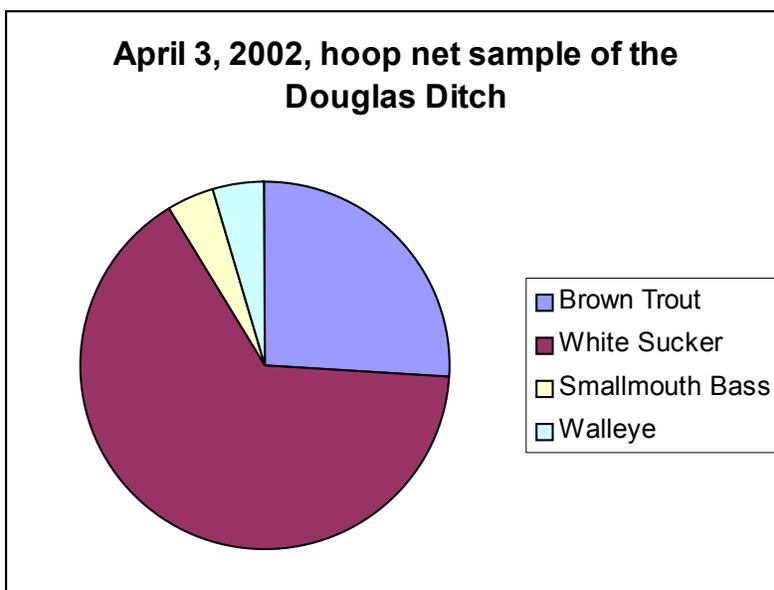
Effort: Set over night, approximately 24 hours

Survey Participants: Dave Bryson, Alex Chmielewski, and Molly Connerton

Fish Survey of Douglas Ditch 4/3/02
Total Length Frequencies



April 3, 2002, hoop net sample of the Douglas Ditch



Stream Survey

Location: Douglas Ditch/Cowaselon Creek



Hoop net collection



White sucker in spawning condition.



Brown trout



Brown trout

Stream Survey

Location: Canaseraga Creek north of Perryville Falls; Owner - John Patane

Date: June 6, 2002 **Water Temperature:** 14 C **Substrate:** Cobble, gravel, and sand

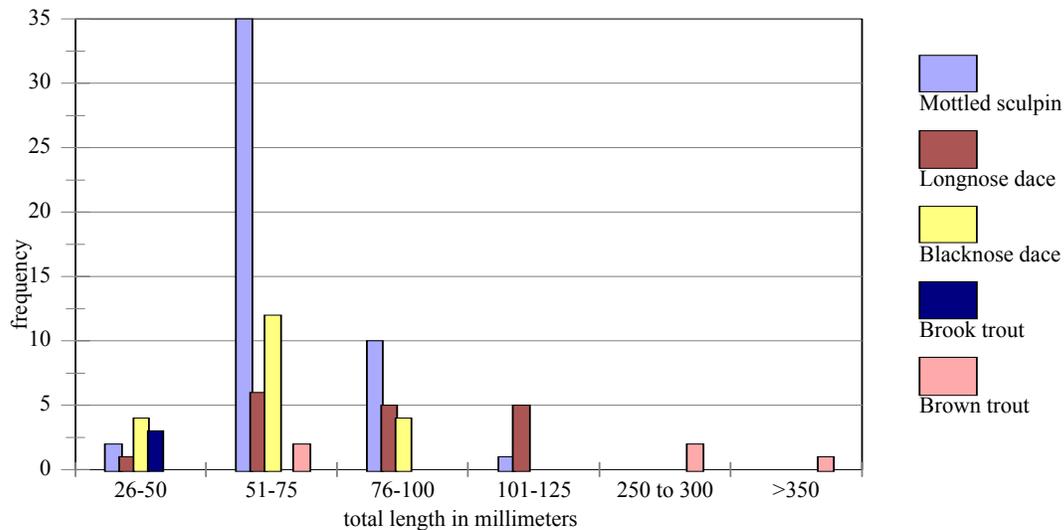
Reach Length: first segment - 214 ft.; second section approximately 100 ft.

Collection Method: Back Pack Electrofisher **Effort:** 52 minutes combined

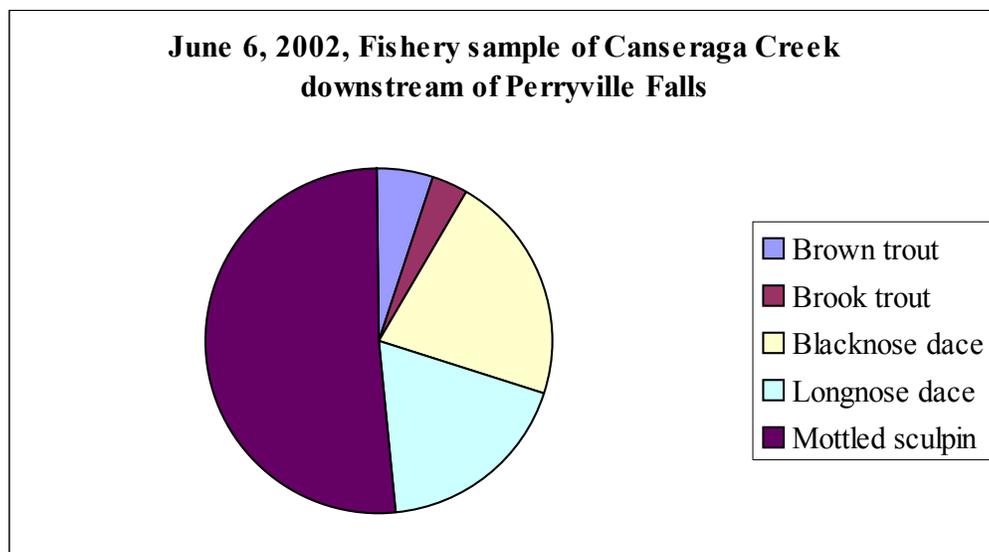
Survey Participants: Dave Bryson, Alex Chmielewski, Shannon Nayyar (volunteer) and John Patane

Fish Survey of Canaseraga Creek 6/6/02

Total Length Frequencies



June 6, 2002, Fishery sample of Canaseraga Creek downstream of Perryville Falls



Stream Survey

Location: Canaseraga Creek

Note: Water was relatively high.



Working up catch statistics.



Measuring fish.



Electrofishing.



Brown trout.

Stream Survey

Location: Canastota Creek near the North Country National Scenic Trail/Link Trail's Canastota Creek Bridge Project.

Date: October 9, 2002

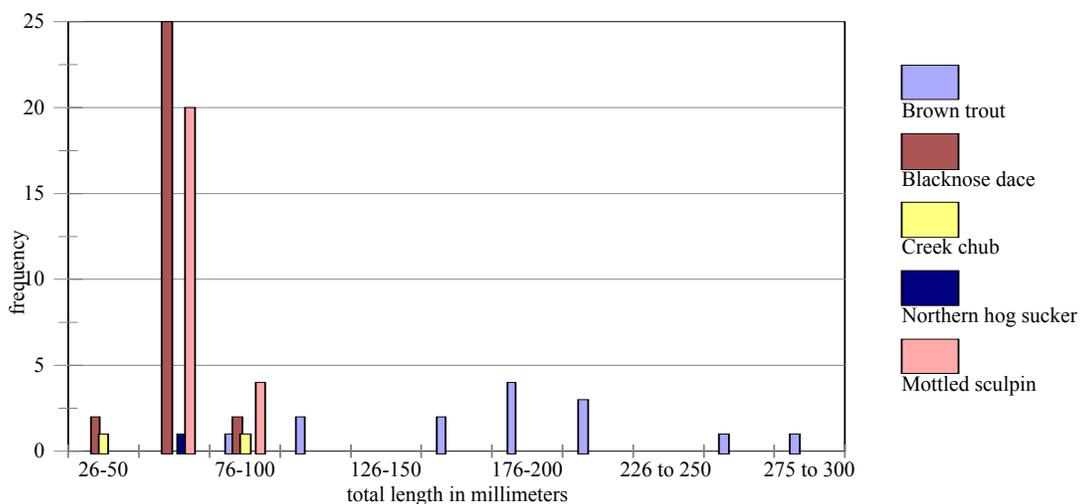
Water Temperature: 12 C **Substrate:** Gravel, sand and silt

Reach Length: Approximately 182 ft (average pool width 12.7 ft; average riffle width 10 ft)

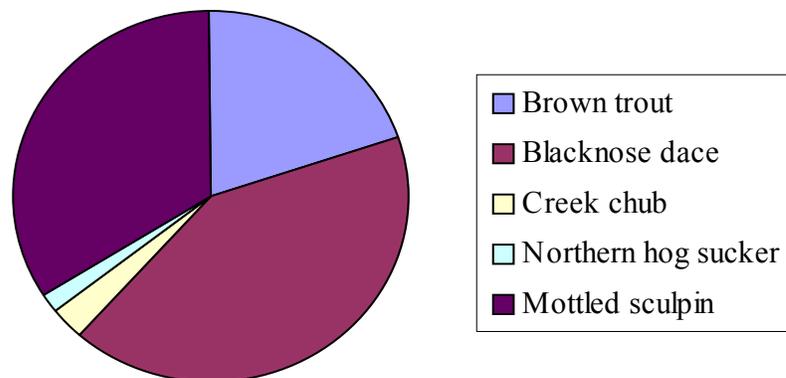
Collection Method: Back Pack Electrofisher **Effort:** 19 minutes, 49 seconds

Survey Participants: Dave Bryson, Steve Patch and Bill Lints

Fish Survey of Canastota Creek 10/9/02
Total Length Frequencies



October 9, 2002, fishery sample of Canastota Creek



Stream Survey

Location: Canastota Creek near the North Country National Scenic Trail/Link Trail's Canastota Creek Bridge Project.



New bridge sign



Canastota Creek Bridge.



View of creek and foot bridge.



Canastota Creek upstream from foot bridge.



View of sampled area.



View of sampled area.

Stream Survey

Location: Canastota Creek near the North Country National Scenic Trail/Link Trail's Canastota Creek Bridge Project.



View of woody vegetation in stream.



Vegetation providing excellent instream cover.



Juvenile brown trout.



Mottled sculpin.

Stream Survey

Location: Clockville Creek west of Oxbow Road **Date:** October 25, 2002

Water Temperature: 10 C **Substrate:** Cobble, gravel and sand

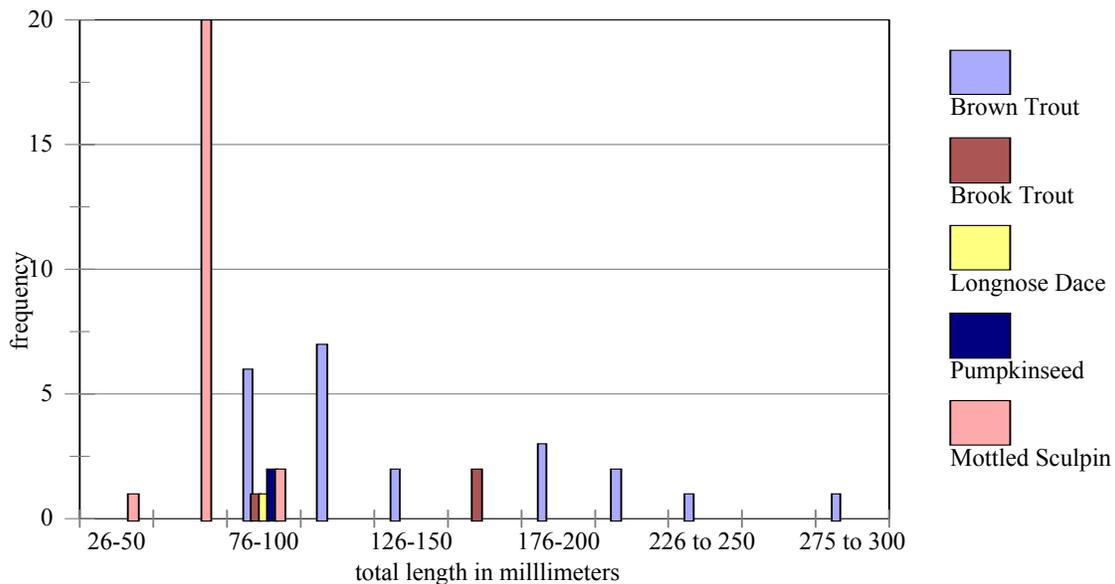
Reach Length: Approximately 162 feet (13feet wide)

Collection Method: Back Pack Electrofisher **Effort:** 12 minutes, 51 seconds

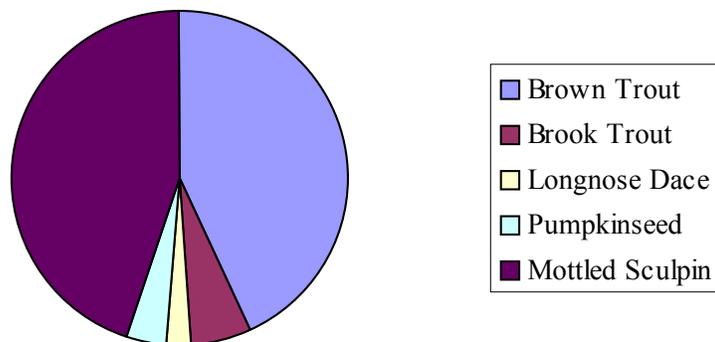
Survey Participants: Dave Bryson, Molly Connerton and Eric Rozowski

Survey of Clockville Creek 10/25/02

Total Length Frequencies



October 25, 2002, fishery sample of Clockville Creek within the town of Clockville, NY



Stream Survey

Location: Clockville Creek west of Oxbow Road



One of several small, manmade dams on Clockville Creek.

Stream Survey

Location: Cowaselon Creek upstream of North Court Road; Owner - Richard Carrier

Date: November 11, 2002

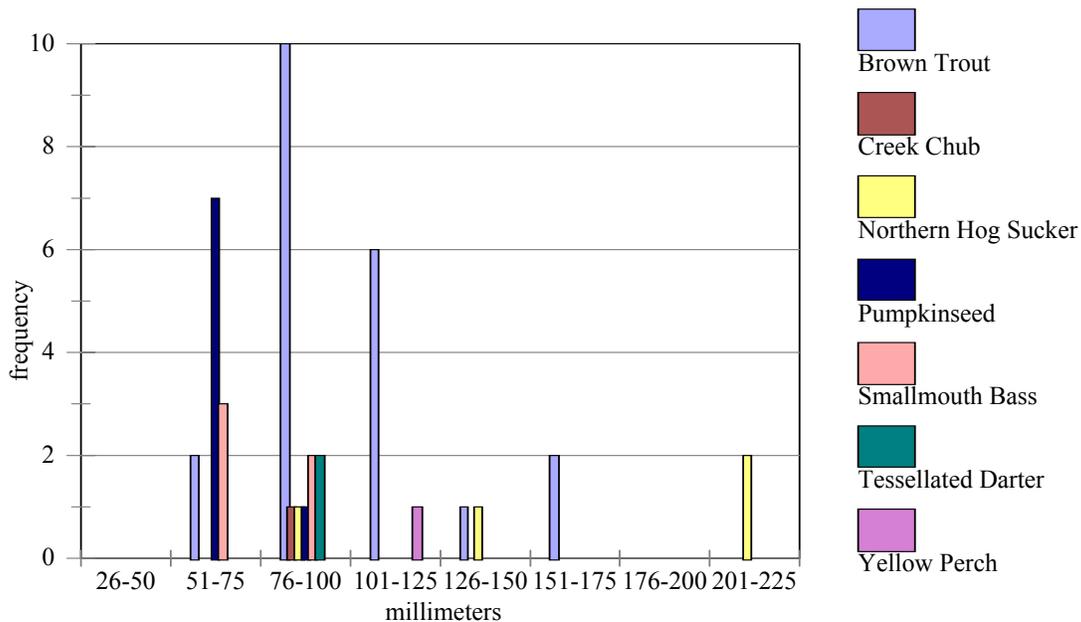
Water Temperature: 10 C **Substrate:** Sand, silt, clay and gravel

Reach Length: Approximately 160 feet **Collection Method:** Back Pack Electrofisher

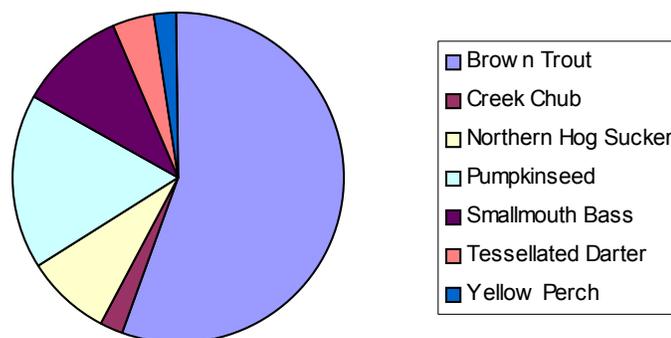
Effort: 17 minutes, 51 seconds

Survey Participants: Dave Bryson, Molly Connerton, Eric Rozowski and Chris Hamilton

Fish Survey of Cowaselon Creek 11/2/02
Total Length Frequencies



November 1, 2002, fishery sample of Cowaselon Creek upstream of North Court Street, Canastota, NY



Stream Survey

Location:

Cowaselon Creek upstream of North Court Road



Landowner Richard Carrier with survey participants Molly Connerton and Chris Hamilton



Northern hog sucker



Pumpkinseed sunfish

Stream Survey

Location: Douglas Ditch (3 locations): downstream of Gee Road; upstream of Tackberry Road Bridge; downstream of Hardwood Island Bridge.

Date: April 22, 2003

Water Temperature: 50 F (10 C) **Substrate:** Sand, silt, clay and gravel

Reach Length: NA **Collection Method:** Gill netting: 3 nets at 6 ft by 50 ft with 3-inch stretch mesh

Effort: 2-3 hours **Survey Participants:** Dave Bryson and Eric Rozowski

No fish collected. Nets filled with debris and lifted off of the bottom. White suckers observed swimming under the net at Hardwood Island Bridge location.



Gill net set downstream of Gee Road.



Gill net set upstream of Tackberry Road Bridge.

Appendix C.

Photos of the lower portions of Canaseraga Creek and the Douglas Ditch

- Photo 1.** View from Canaseraga Creek as it enters Oneida Lake at Lakeport, NY.
- Photo 2.** Photo looking upstream towards the Route 31 Bridge at Lakeport, NY.
- Photo 3.** Sign at Route 31 Bridge crossing Canaseraga Creek.
- Photo 4.** Canaseraga Creek upstream of the Route 31 Bridge.
- Photo 5.** Canaseraga Creek between Route 31 and Gee Road. (Photo by Kevin Bliss)
- Photo 6.** Canaseraga Creek downstream of Gee Road. (Photo by Kevin Bliss)
- Photo 7.** Lower end of Douglas Ditch adjacent to Ditch Bank Road.
- Photo 8** Douglas Ditch downstream of Gee Road.
- Photo 9.** Douglas Ditch upstream of the Gee Road Bridge
- Photo 10.** Douglas Ditch/Cowaselon Creek between Gee Road and Tackabury Road.
- Photo 11.** Lateral entering from the north side of the Douglas Ditch as located between Gee and Tackabury Roads.
- Photo 12.** Douglas Ditch downstream of Hardwood Island Road.
- Photo 13.** Lateral entering Douglas Ditch downstream of Hardwood Island Road (view of lateral as it descends towards ditch).
- Photo 14.** Lateral entering Douglas Ditch downstream of Hardwood Island Road (view of the ditched lateral before it descends into the Douglas Ditch).



Photo 1. View from Canaseraga Creek as it enters Oneida Lake at Lakeport, NY.



Photo2. Photo looking upstream towards the Route 31 Bridge at Lakeport, NY.



Photo 3. Sign at Route 31 Bridge crossing Canaseraga Creek.



Photo 4. Canaseraga Creek upstream of the Route 31 Bridge.



Photo 5. Canaseraga Creek between Route 31 and Gee Road. (Photo by Kevin Bliss)



Photo 6. Canaseraga Creek downstream of Gee Road. (Photo by Kevin Bliss)



Photo 7. Lower end of Douglas Ditch adjacent to Ditch Bank Road.



Photo 8 Douglas Ditch downstream of Gee Road.



Photo 9. Douglas Ditch upstream of the Gee Road Bridge.



Photo 10. Douglas Ditch/Cowaselon Creek between Gee Road and Tackabury Road.



Photo 11. Lateral entering from the north side of the Douglas Ditch as located between Gee and Tackabury Roads.



Photo 12. Douglas Ditch downstream of Hardwood Island Road.

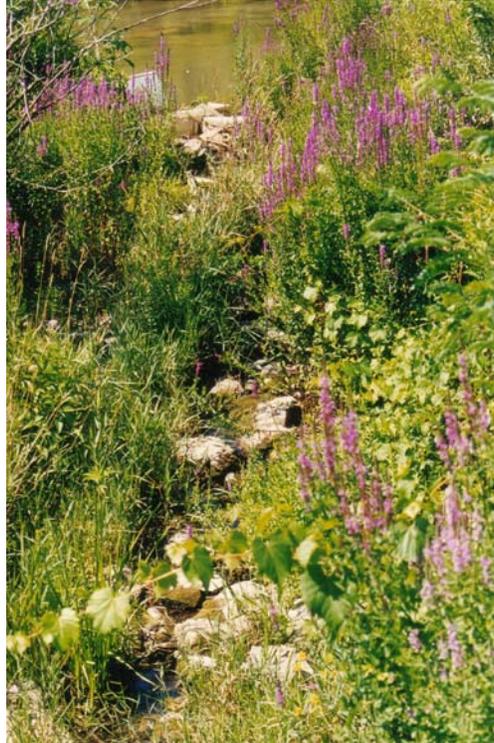


Photo 13. Lateral entering Douglas Ditch downstream of Hardwood Island Road (view of lateral as it descends towards ditch).

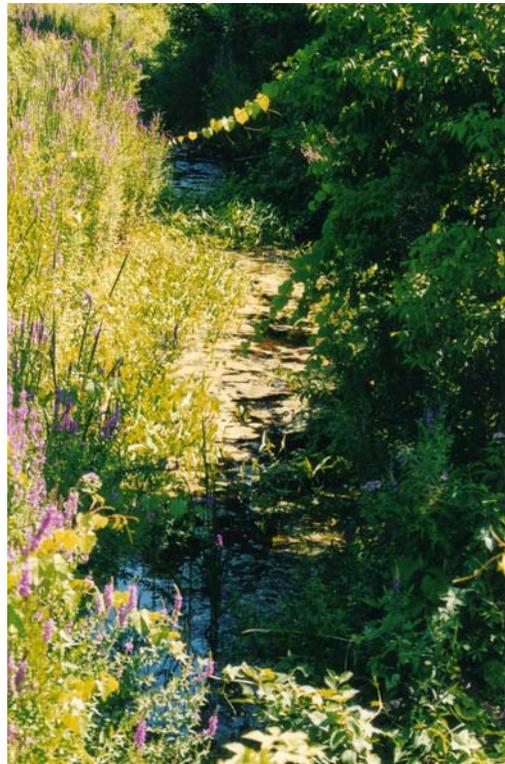


Photo14. Lateral entering Douglas Ditch downstream of Hardwood Island Road (view of the ditched lateral before it descends into the Douglas Ditch).