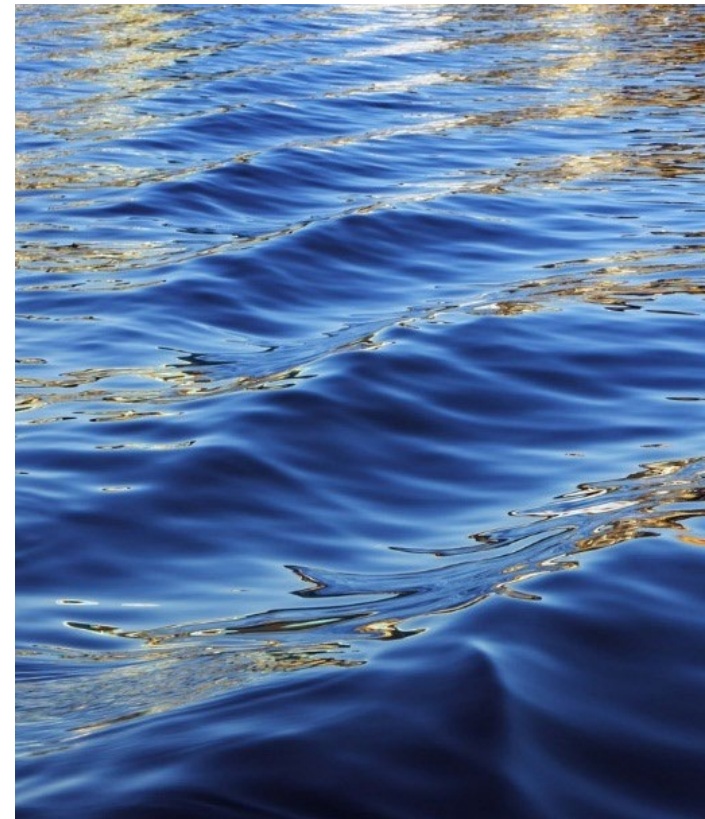


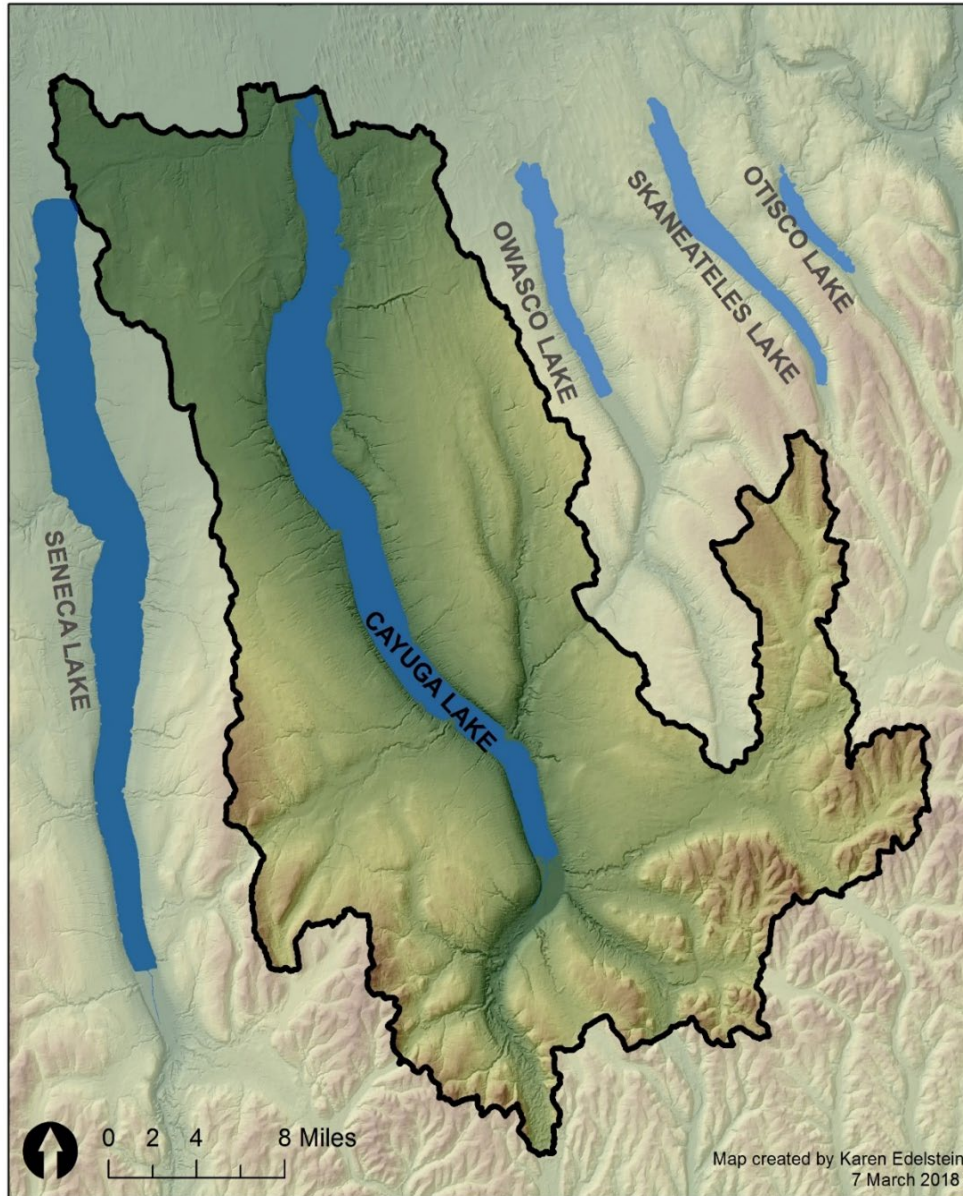


Cayuga Lake Watershed Intermunicipal Organization

The purpose of the Intermunicipal Organization is to bring watershed municipalities together to work collectively and collaboratively on monitoring, protecting, and restoring the health of the watershed.



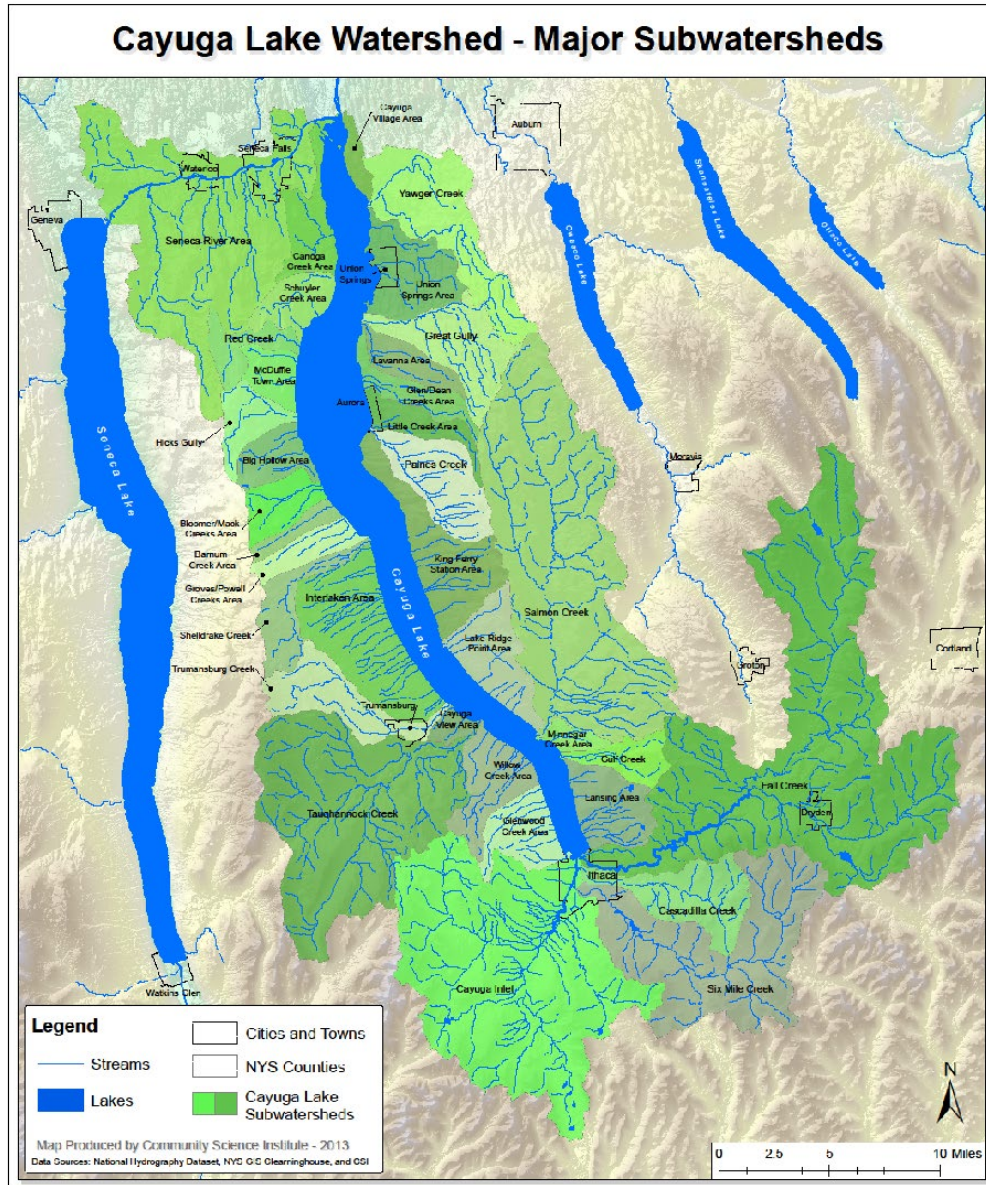
Cayuga Lake Watershed:



A watershed is an area of land where water from streams, springs, and wetlands all flow to a common larger body of water.

- Cayuga Lake Watershed covers 860 square miles or about 500,000 acres
- Largest Watershed in the Finger Lakes
- Part of the Lake Ontario Watershed

Cayuga Lake Watershed:

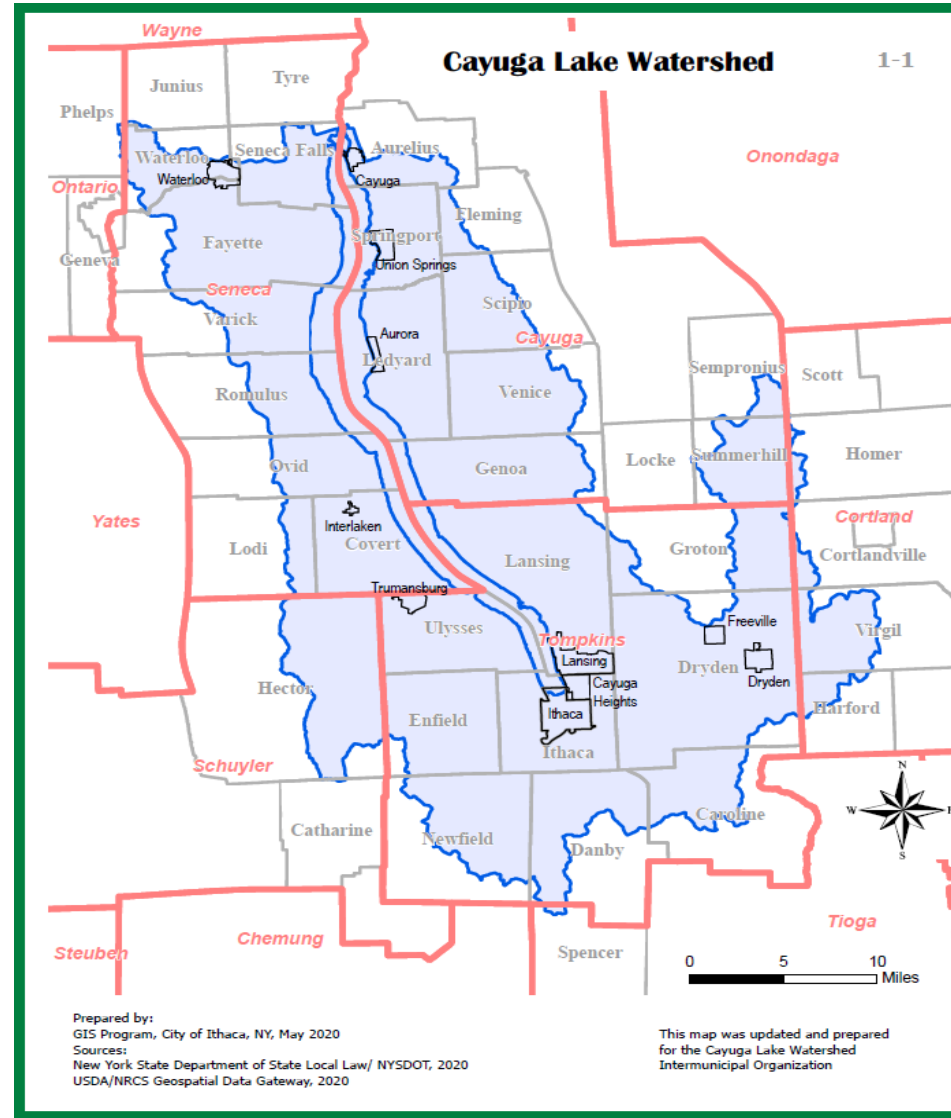


Watershed Facts

- Extends 38 miles in length
- Average width of 1.75 miles
- Contains 46 major and minor subwatersheds
- More than 140 streams flow into Cayuga Lake
- 95 miles of shoreline

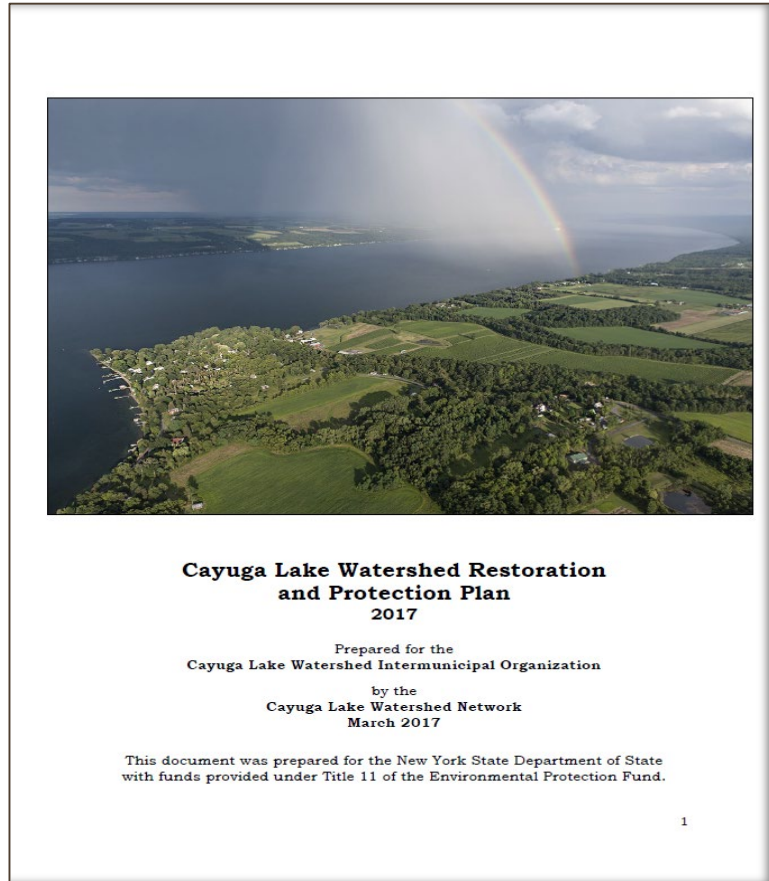
Cayuga Lake Watershed:

The watershed is spread over 6 counties and includes 50 municipalities

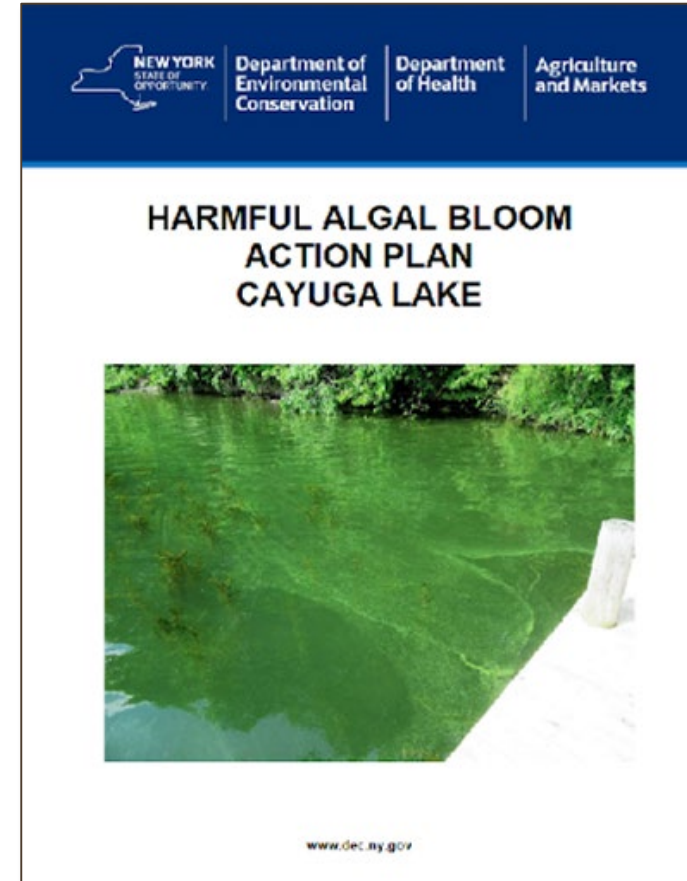


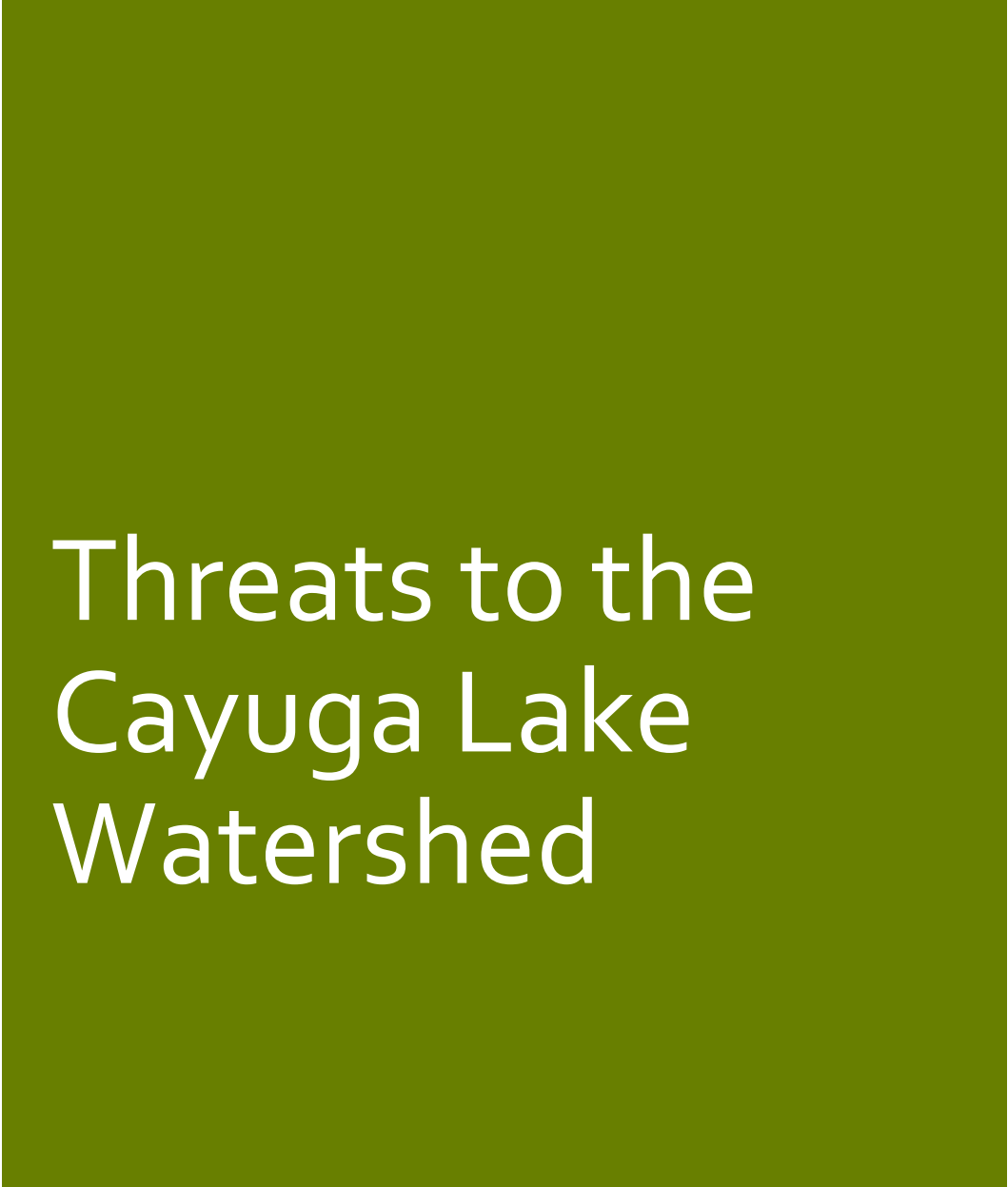
Guiding Documents

Restoration and Protection Plan

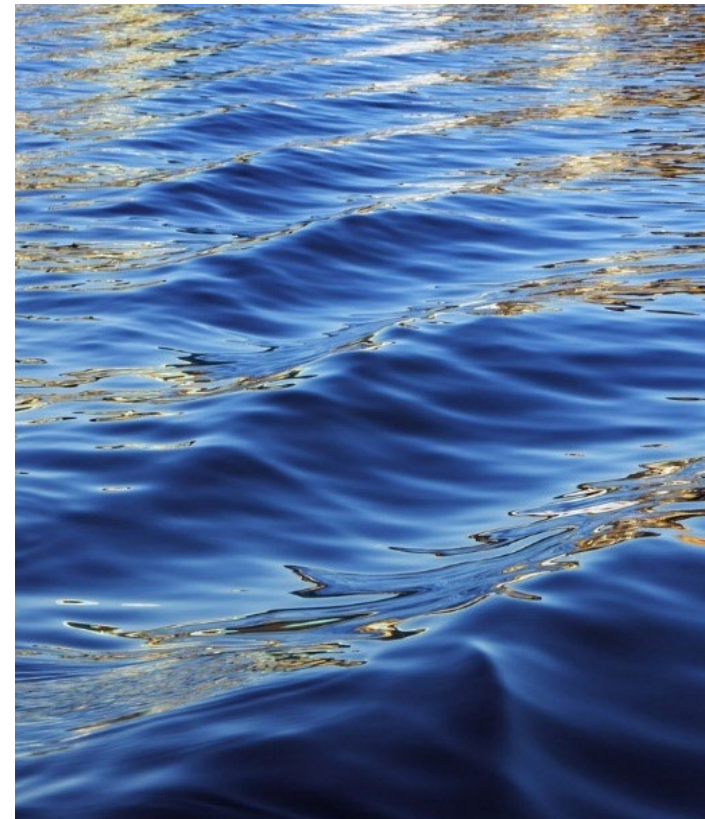


HABs Action Plan





Threats to the Cayuga Lake Watershed



Threats:

Storm events increases runoff bringing sedimentation, pollutants, and damage from flooding



Threats:

Harmful Algae Blooms (HABs) affect water quality making water undrinkable and unsafe for swimming and animals



HABs may make the water look bright green or like pea soup.



HABs may look like parallel streaks, usually green, on the water surface.

Threats:

Invasive Species threaten biodiversity, impacts water quality and reduces accessibility to the water



Hydrilla

USGS Collette Jacono



Zebra Mussel

Bugwood by Randy Westbrooks

Solutions

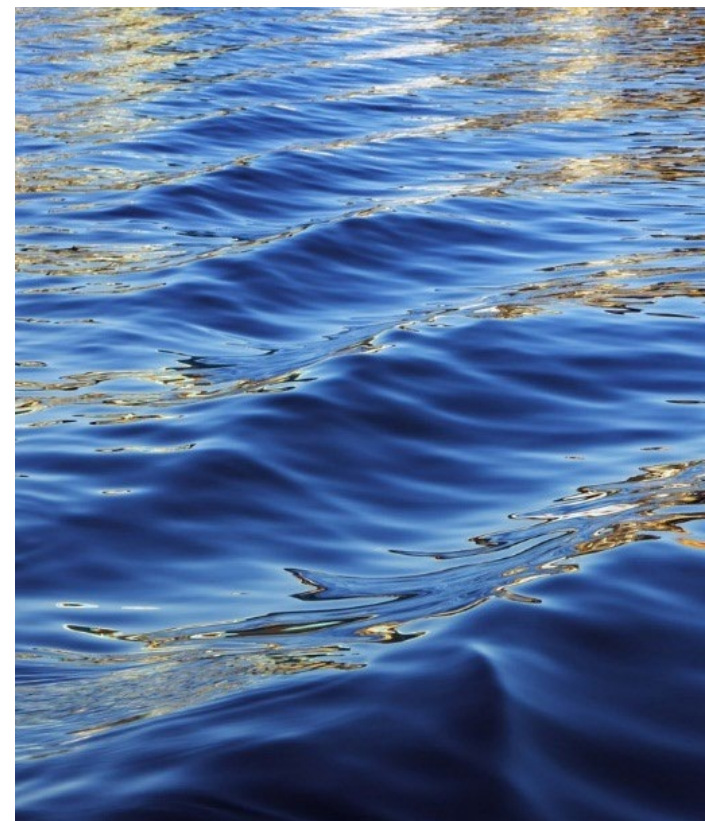




Photo credit: Bill Hecht

Problematic sediments from stormwater runoff

Taking action on key projects.

Identifying and remediating key problem areas helps protect water quality one project at a time.

Finding funding to do these projects is critical.

The IO is currently prioritizing shovel-ready projects and helping to find funding sources.



Consistent monitoring of the lake and its tributaries is necessary to understand threats.

Monitoring provides a science-based assessment of lake

Data sets examine changes over time.



Ensure water going into lakes is not impaired

Photo Credit: Finger Lakes Land Trust

Model Regulations and Local Laws can protect water quality.

Examples:

- Best Management Practices for all land uses.
- Stormwater regulations to reduce runoff
- Illicit discharge laws
- Development setbacks to waterways
- Septic system testing

Solutions:

Education

Outreach and Education are critical to implementing solutions

The IO partners with others to provide educational opportunities encouraging municipal to adopt practices that are protective of the lake.



2019 Riparian Buffer Workshop
Photo credit : Tompkins County Water Resources Council



Discover
CAYUGA LAKE



Coordination of efforts across the watershed is an efficient use of limited resources

IO membership spans

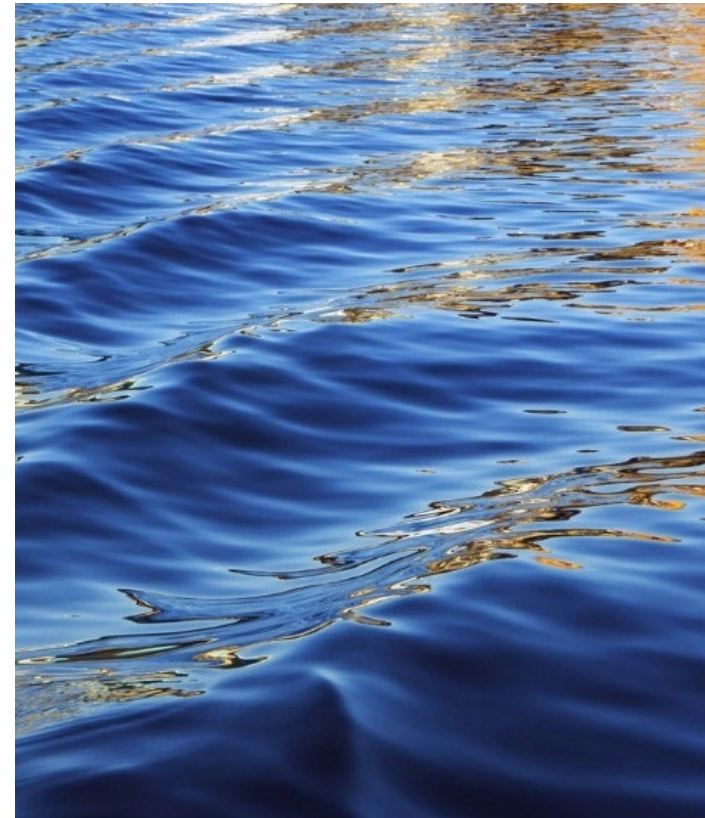
- Agencies,
- Stakeholders
- Geography

All with interests in keeping the waters of Cayuga Lake clean for everyone.



2021 Work Plan

The municipalities within the Cayuga Lake watershed recognize the enormous and irreplaceable ecological, economic and social value of Cayuga Lake, its tributaries, and its wetlands. The purpose of the Intermunicipal Organization is to bring the watershed municipalities together to work collectively and collaboratively on monitoring, protecting, and restoring the health of the watershed.

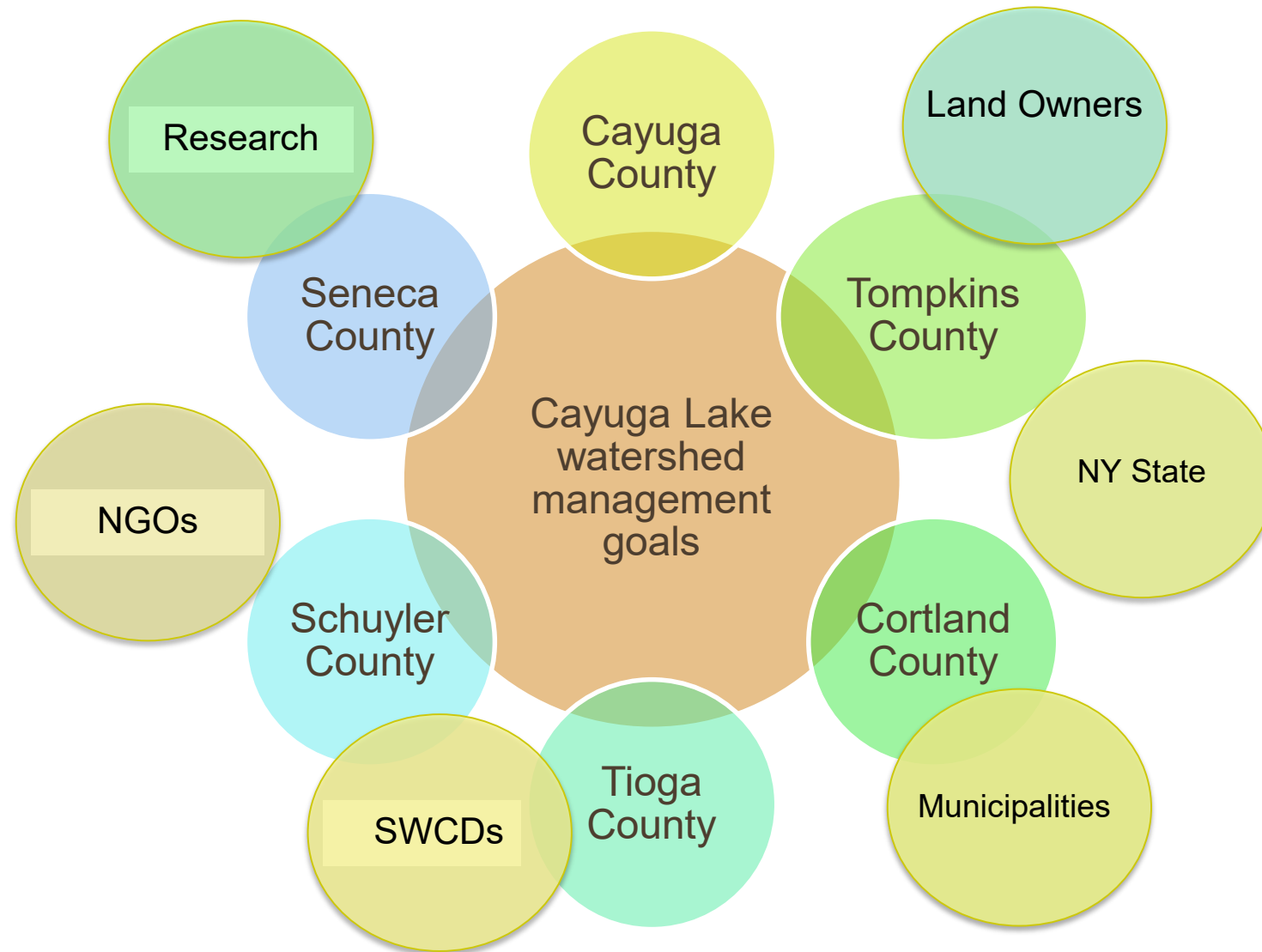


2021 Work Plan: Prepare Priority Projects for Grant Funding



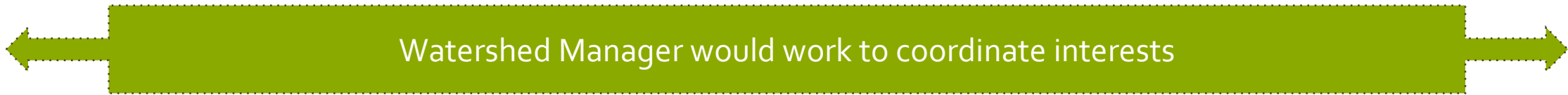
Create and prioritize lists of shovel-ready projects applicable for grant funding.

2021 Work Plan: Coordinate efforts



Work Plan: Coordinate Efforts

Coordinate a Broad Range of Stakeholders



State Programs	County Programs	Local Municipalities	Not for Profits	Landowners	Those Using Cayuga Lake
<ul style="list-style-type: none">• NYS DEC• NYS DOH• NYS Ag and Markets• NYS DOS• NYS Legislators	<ul style="list-style-type: none">• Planning• Health Dept• Soil & Water Conservation Districts• Cornell Cooperative Extension• Water Resource Councils• Parks Depts	<ul style="list-style-type: none">• County• City• Town• Village• Water Purveyors• DPWs and Highway Depts	<ul style="list-style-type: none">• Cayuga Lake Watershed Network• CLEAN• Community Science Institute• Discover Cayuga Lake• Finger Lakes Land Trust	<ul style="list-style-type: none">• Farmers• Homeowners• Commercial /Retail• Agricultural Industry• Land trusts	<ul style="list-style-type: none">• Tourists• Residents who recreate on the lake• Agriculture• Regional economic interests• Universities and Colleges

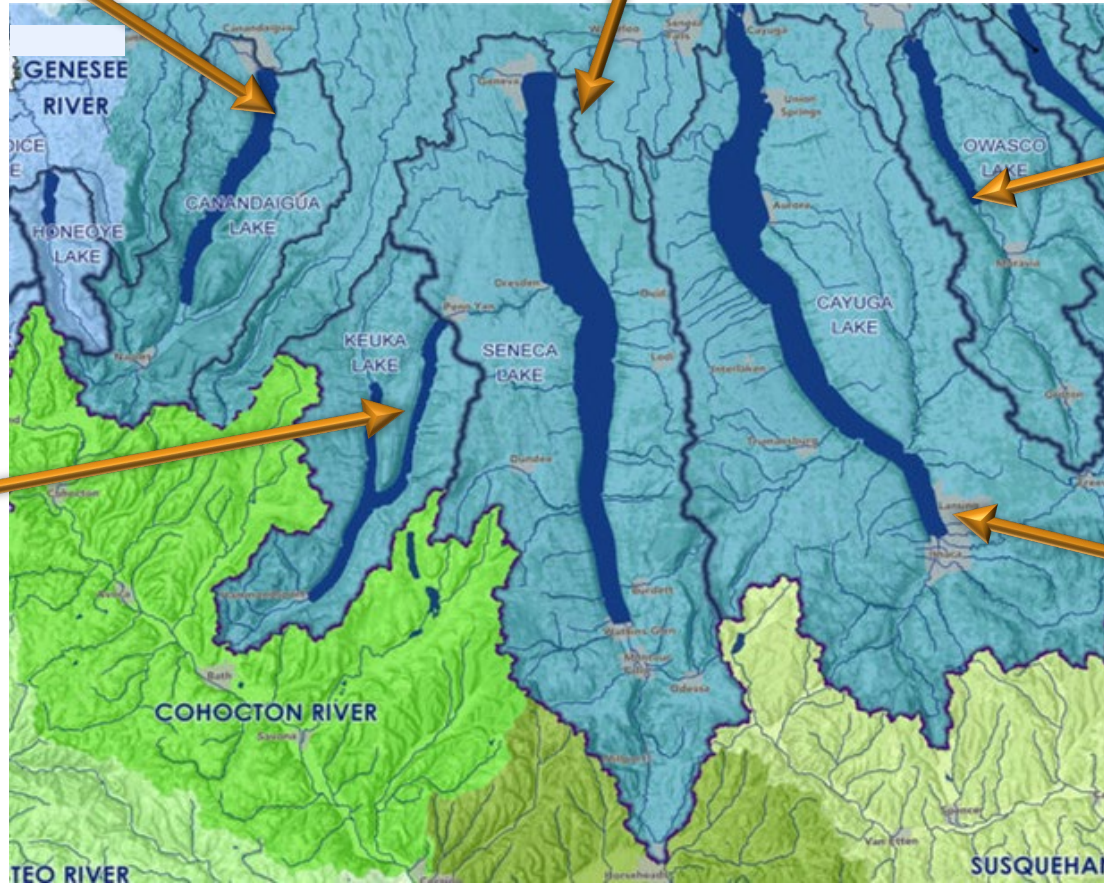
2021 Work Plan: Fund a Watershed Manager

Canandaigua Lake
Kevin Olvany

Seneca Lake - Ian Smith

Owasco Lake
Adam Effler

Keuka Lake
Colby Peterson



Projects enabled by the IO – when we had staff

Completed projects			
Project Location	Project Type	Year	Grant Funding (Total Cost)
Six Mile Creek, Town of Caroline	Stream restoration	2005	\$132,200 (\$650,000 + funds from DEC, SWCD, City of Ithaca, CCAP, Town of Caroline, Triad Foundation)
Virgil Creek, Town of Dryden	Stream restoration	2005	\$47,000 (\$500,000 funds from FEMA and Town of Dryden)
Genoa/Lansing Town Line Road, Town of Genoa	Roadbank stabilization	2005	\$3,000 (\$22,000 labor and equipment from Town of Genoa)
Wyers Point Road, Town of Ovid	Consulting on roadbank stabilization	2005	Engineer volunteered time to discuss options
Salt Point, Town of Lansing	Habitat restoration	2007	\$51,000 (total \$102,000; \$51,000 local match)
Watershed-wide	Hydroseeding work in four counties	2009	\$26,500 (total \$53,000)
Interlaken	Stormwater retention	2009-2012	\$34,000 (total \$68,000; \$34,000 in-kind match)
Watershed-wide	RPP Update	2015-2017	\$29,700 (total \$58,400)

Restoration in the Sucker Brook Subwatershed

- Poorest water quality ranking of the 17 monitored tributaries
- Stressed stream analysis completed
- Flooding issues



**CANANDAIGUA LAKE
WATERSHED COUNCIL**



PROTECTING THE LIFEblood OF OUR REGION

School District Stormwater Wetlands



2021 Work Plan: Create a Fair Funding Formula

- Cayuga Lake IO dues not increased since 2004. \$900/year/municipality
- Funds needed for
 - Goal : raise \$90,000 Staff – Watershed Manager, Watershed Inspector
 - Identify, Promote, Fund, Implement Select Projects with Stakeholders
 - Education and Monitoring
- annually
- Fair Funding Formula - Create an equitable formula for dues.

% Land in Watershed x Shoreline x Pop. Density x Assessment = Share of FFF

IO Goals: Funding

	% of Payment	\$ Amt
Cayuga County	19.7%	\$5,895
Cortland County	6.4%	\$1,928
Ontario County	6.2%	\$1,865
Schuyler County	3.9%	\$1,155
Seneca County	22.5%	\$6,747
Tioga County	2.9%	\$882
Tompkins County	38.4%	\$11,497
County Total	100%	\$29,970

IO Goals: Funding

City of Ithaca	11.3%	\$6,796
Town of Caroline	1.0%	\$612
Town of Danby	1.5%	\$919
Town of Dryden	6.1%	\$3,651
Town of Enfield	1.8%	\$1,105
Town of Groton	1.2%	\$709
Town of Ithaca	7.9%	\$4,757
Town of Lansing	10.0%	\$6,026
Town of Newfield	1.7%	\$1,013
Town of Ulysses	4.5%	\$2,730
Village of Cayuga Heights	3.0%	\$1,786
Village of Dryden	1.2%	\$741
Village of Freeville	0.6%	\$361
Village of Lansing	3.1%	\$1,860
Village of Trumansburg	1.3%	\$787





Questions?

