



# HABS WEEKLY NEWSLETTER

2022 CAYUGA LAKE HABS MONITORING PROGRAM

Photo from CSI website

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by CLWN Staff Intern Maria Lee

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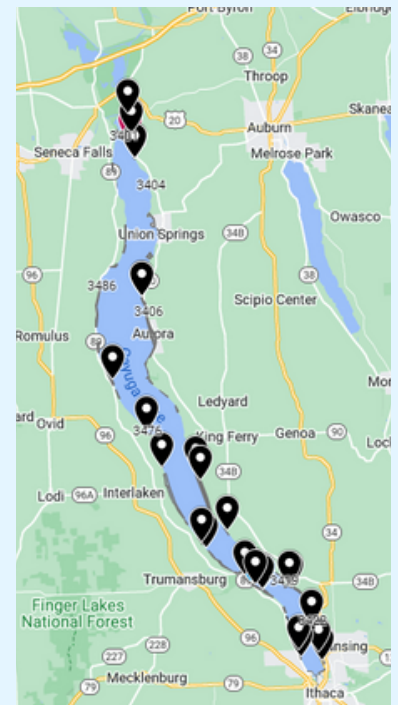
## HABs Update

This past week, there has been an abundance of HABs across the lake. From 7/14 to 7/20, we had a total of **twenty-two** bloom reports, with **twenty confirmed blooms** and **two suspicious blooms**.

To view the most recent HAB reports visit the [Community Science Institute's HABs Reporting Page!](#)

To view the past HABs Newsletters, visit our website's [2022 HABs Update Page](#).

With so many HAB reports this week, the usual HAB report information chart spans the next few pages! Keep reading to learn about how HABs could affect your drinking water and for some FAQs.



Map of Cayuga Lake indicating the location of HABs.

- Black pins:** Cyanobacteria are present in bloom (HAB) sample
- Red pins:** Cyanobacteria bloom with a microcystin toxin concentration that exceeds the limit for contact recreation (4.0 ug/ L).
- Blue pins:** Suspicious HAB

To see the HABs map up close, visit CSI's [2022 Cayuga Lake HABs Reporting Map](#)

## HABs Information Chart: 7/14 to 7/20 2022

Dates presented are the date the sample was received at the CSI lab.

Bloom Code	Date	Location Description	Bloom extent	Microscopy	Total Chlorophyll (ug/L)	Microcystin Toxin (ug/L)	Bloom Status
22-3458-B2	7/14	Small localized bloom along the residential shoreline of Water St. in the village of Cayuga	Small localized	dense Microcystis, moderate Dolichospermum	Results pending	Results pending	<b>Cyanobacteria are present in bloom (HAB) sample.</b> Potentially toxic/ harmful.
22-3433-B1	7/14	Bloom observed near Taughannock Blvd along shoreline north of Willow Creek Point in Ulysses, NY	Small localized	sparse Dolichospermum	Results pending	Results pending	<b>Suspicious Bloom.</b> Photos indicate that the suspicious bloom may be a harmful algal bloom (HAB).
22-3477-B1	7/15	Bloom along shoreline near Ladoga Park Rd. south of Myers Park	Large localized	Sample not collected	Sample not collected	Sample not collected	<b>Suspicious Bloom.</b> Photos indicate that the suspicious bloom may be a harmful algal bloom (HAB), but bloom dissipated before a sample could be collected
22-3424-B1	7/15	East Shore Park kayak launch	Small localized	sparse Dolichospermum	Results pending	Results pending	<b>Cyanobacteria are present in bloom (HAB) sample.</b> Potentially toxic/ harmful.
22-3460-B1	7/15	Shoreline, observed at the dock but throughout 1 mile of surveyed shoreline on Powers Rd.	widespread	sparse Dolichospermum	Results pending	Results pending	<b>Cyanobacteria are present in bloom (HAB) sample.</b> Potentially toxic/ harmful.
22-3406-B1	7/16	shoreline at Ellis Point	large localized	moderate-dense Dolichospermum	Results pending	Results pending	<b>Cyanobacteria are present in bloom (HAB) sample.</b> Potentially toxic/ harmful.
22-3416-B1	7/18	Residential beach along Fire Lane 1 in King Ferry, NY	small localized	dense Dolichospermum, sparse Oscillatoria	Results pending	Results pending	<b>Cyanobacteria are present in bloom (HAB) sample.</b> Potentially toxic/ harmful.
22-3423-B1	7/18	along shore on E Shore Drive, just south of the Ithaca Boat House	widespread	moderate Dolichospermum	Results pending	Results pending	<b>Cyanobacteria are present in bloom (HAB) sample.</b> Potentially toxic/ harmful.

# HABS INFO CHART

Bloom Code	Date	Location Description	Bloom extent	Microscopy	Total Chlorophyll (ug/L)	Microcystin Toxin (ug/L)	Bloom Status
22-3477-B2	7/18	right off the dock by Ladoga Park Road, south of Myers Point	Small localized	Dense Dolichospermum, unknown cyanobacteria present	Results pending	Results pending	<b>Cyanobacteria are present in bloom (HAB) sample.</b> Potentially toxic/harmful.
22-3418-B1	7/18	dock area along Lansing Station Road. Bloom was accumulating against leeward wall	Large localized	moderate Dolichospermum	Results pending	Results pending	<b>Cyanobacteria are present in bloom (HAB) sample.</b> Potentially toxic/harmful.
22-3458-B3	7/18	shoreline just south of Cayuga Marina	widespread	Dense Microcystis, moderate Dolichospermum, sparse Aphanizomenon, pseudoanabaena present	Results pending	Results pending	<b>Cyanobacteria are present in bloom (HAB) sample.</b> Potentially toxic/harmful.
22-3476-B1	7/19	Bloom observed on Wyers Point Road in Ovid, just south of The Cottage	small localized	moderate-dense Dolichospermum	Results pending	Results pending	<b>Cyanobacteria are present in bloom (HAB) sample.</b> Potentially toxic/harmful.
22-3467-B1	7/19	Long stretches of the shoreline south of Sheldrake Point. We received numerous reports of a seemingly continuous bloom spanning from Sheldrake Point all the way down to Briggs Cottage	widespread	moderate Dolichospermum, sparse Microcystis	Results pending	Results pending	<b>Cyanobacteria are present in bloom (HAB) sample.</b> Potentially toxic/harmful.
22-3435-B1	7/19	Bloom located within the swimming area in Taughannock Falls State Park.	large localized	see results from 22-3470-B2	Results pending	Results pending	<b>Cyanobacteria are present in bloom (HAB) sample.</b> Potentially toxic/harmful. This bloom is likely part of the same widespread bloom as 22-3470-B2 and 22-3433-B2.
22-3433-B2	7/19	Bloom located along the shoreline between Willow Creek Point and Taughannock Falls State Park.	large localized	See results for 22-3470-B2	Results pending	Results pending	<b>Cyanobacteria are present in bloom (HAB) sample.</b> Potentially toxic/harmful. This bloom is likely part of the same widespread bloom as 22-3470-B2 and 22-3435-B1.

## HABS INFO CHART

Bloom Code	Date	Location Description	Bloom extent	Microscopy	Total Chlorophyll (ug/L)	Microcystin Toxin (ug/L)	Bloom Status
22-3472-B1	7/19	Bloom located along the shoreline of MacQueens Beach.	large localized	moderate-dense Dolichospermum	Results pending	Results pending	<b>Cyanobacteria are present in bloom (HAB) sample. Potentially toxic/harmful.</b> This bloom is likely part of the same widespread bloom as 22-3491-B1.
22-3491-B1	7/19	Bloom located by a dock along Kingtown Beach Rd.	small localized	see results for 22-3472-B1	Results pending	Results pending	<b>Cyanobacteria are present in bloom (HAB) sample.</b> Potentially toxic/harmful. The bloom reported at this location, as well as bloom report 22-3472-B1, are likely both part of the same widespread bloom.
22-3470-B2	7/19	Bloom located along a private shoreline half a mile south of Taughannock Falls State Park.	small localized	dense Dolichospermum, sparse Oscillatoria	Results pending	Results pending	<b>Cyanobacteria are present in bloom (HAB) sample.</b> Potentially toxic/harmful. This bloom is likely part of the same widespread bloom as 22-3435-B1 and 22-3433-B2..
22-3443-B2	7/19	Bloom located along the shoreline of private properties on Lower Lakewood Dr. in Ovid, NY. Extends along the shoreline of nine cottages.	large localized	moderate/dense Dolichospermum, sparse Microcystis	Results pending	Results pending	<b>Cyanobacteria Bloom (HAB).</b> Indicated by photographs and field reports.
22-3430-B1	7/19	Bloom located along the shoreline of many properties on Taughannock Blvd. both north and south of zone 3430	widespread	See results for 22-3431-B1	Results pending	Results pending	<b>Cyanobacteria Bloom (HAB).</b> Indicated by photographs and field reports.
22-3431-B1	7/19	Bloom observed off dock, along shore	widespread	dense Dolichospermum, sparse Microcystis, sparse Oscillatoria	Results pending	Results pending	<b>Cyanobacteria Bloom (HAB).</b> Indicated by photographs and field reports.
22-3483-B1	7/20	Along the shoreline of Ellis Point and beyond	widespread	moderate Dolichospermum	Results pending	Results pending	<b>Cyanobacteria Bloom (HAB).</b> Indicated by photographs and field reports.

## ***HABs: A Danger to Drinking Water***

The cyanotoxins in HABs can contaminate lakes and reservoirs that up to 48 million Americans rely on as a source of drinking water\*, including communities around Cayuga Lake. When HABs contaminate drinking water, they can become a threat to public health.



If you are concerned about possible exposure to a HAB, contact your local health department.

- **Tompkins County Health Dept: (607) 274-6600**
- **Cayuga County Health Dept: (315) 253-1560**
- **Seneca County Health Dept: (315) 539-1920**
- **NYS Department of Health: [www.health.ny.gov/environmental/water/drinking/bluegreenalgae.htm](http://www.health.ny.gov/environmental/water/drinking/bluegreenalgae.htm) or email [harmfulalgae@health.state.ny.us](mailto:harmfulalgae@health.state.ny.us)**

\* ([Climate Change Projected to Significantly Increase Harmful Algal Blooms in US Freshwaters, n.d.](#))



Photo from [CSI website](#)

### **Case Study: The 2014 Toledo Water Crisis**

In 2014, a massive Harmful Algal Bloom swept Lake Erie, contaminating the water with Microcystin toxins. A state of emergency was declared, and people were ordered to not drink or even touch their water. Nevertheless, more than 100 people got sick from the water, and a total of 500,000 people in both Toledo and Michigan were affected by the crisis. Even now, many Ohioans remain skeptical of drinking their tap water for fear of contamination.

### **We want to hear from you!**

Email [habs.newsletter@gmail.com](mailto:habs.newsletter@gmail.com) with feedback on the weekly HABs newsletters, suggestions for future topics, your favorite creatures in Cayuga Lake, or HABs stories you would like to share!

## FAQs

### Where can I look for HABs updates near me?

To keep an eye out for HABs in your area or anywhere around Cayuga Lake, visit the [CSI's HAB's Reporting Page](#). In addition, this newsletter will contain weekly updates about reported HABs.

### Where can I report a HAB or a suspicious HAB?

Please fill out the [HAB Report form](#) with the required information or email us at [habshotline@gmail.com](mailto:habshotline@gmail.com). When you are sending in a report, please make sure to include your contact information and photos of the bloom (one close-up for detail and one further away to show the extent of the bloom), location, date, and time.

### Safety Tips:

1. Stay away from any suspicious blooms
2. Never swallow untreated lake water.
3. Don't swim in cloudy, discolored, or suspicious-looking water - it could contain microorganisms that are harmful to humans
4. Make sure to wash your hands after contact with water before you eat, or shower after swimming



**KNOW IT, AVOID IT, REPORT IT!**

### Questions? Contact:



**Cayuga Lake Watershed Network (CLWN)**

Liz Kreitinger, Steward/Executive Director: [steward@cayugalake.org](mailto:steward@cayugalake.org)



**Community Science Institute (CSI)**

Grace Haynes, HABs Monitoring Program Coordinator  
[aghaynes@communityscience.org](mailto:aghaynes@communityscience.org)  
 607-257-6606



**Discover Cayuga Lake**

607-327-LAKE/5253

Photo by Bill Hecht

