

2017/18 Review of State Freshwater HAB Programs - A Short Introduction

Beckye Stanton, Ph.D.
Senior Environmental Scientist (Specialist)
Office of Environmental Health Hazard Assessment
California Environmental Protection Agency



Existing Summaries

- Existing summary table
 - Initial version prepared by New England Interstate Water Pollution Control Commission (NEIWPCC; Dan Peckham) in cooperation with CT, ME, MA, NH, NY, RI, and VT
 - Last updated in July 2014
 - Appendix B of [Cyanobacteria Monitoring Collaborative QAPP](#)
- Existing lists of state resources
 - [North American Lakes Management Society](#) (NALMS)
 - [USEPA Nutrient Policy and Data States Monitoring Programs](#)

2017/2018 Review – To Date

- Updated the summary table for all 50 states through:
 - A lot of internet searches
 - Some direct communication to fill in the gaps
- Provided updated state program websites to NALMS and USEPA

2017/2018 Review – This Talk

- Grouped freshwater HAB programs into 3 relative categories (less, more, and most developed)
 - **Preliminary assessment based on subjective grouping of program components**
 - List states by category in alphabetical order (by state abbreviation)
 - Provided hyperlink to a main page for each state as listed
- Identified some common issues or next steps across states
- Initial thoughts about further outreach

Less Developed Programs*

- Minimal information online
- No or minimal information on monitoring or reporting
- No or minimal process on advisories or closures

• AK

• AL

• AR

• DC

• DE

• HI

• LA

• MS

• SD

• TN

* May have more developed marine HAB program (e.g., AK, LA)

More Developed Programs

- Significant information online
- Public bloom/illness reporting
- Reactive monitoring of blooms
- Specific process for advisories with action levels

• AZ

• CA

• CO

• CT

• GA

• IA

• ID

• IL

• KS

• MD

• ME

• MO

• MT

• ND

• NH

• NM

• NV

• PA

• RI

• SC

• TX

• WI

• WV

• WY

Most Developed Programs

- Extensive information online
 - Centralized public bloom/illness reporting
 - **Routine HAB-related monitoring**
 - lakes and/or beaches
 - **often utilize volunteers**
 - Developed response plans/strategies
 - Online posting of advisories and data
 - Extensive public outreach
- FL
 - IN
 - KY
 - MA
 - MI
 - MN
 - NC
 - NE
 - NJ
 - NY
 - OH
 - OK
 - OR
 - UT
 - VA
 - VT
 - WA

Most Developed Programs – A Few Examples

Kentucky

Esri World

HAB Info

Recreation

Algal toxin population children, medical co

Recreation

Algal toxin: water activi

More Inform

Click on the waterbody and HAB status. To learn more, visit the [Division of Water HABs informatio](#) questions or would like to report a bloom, call 502-564-3410.




Ohio Environmental Protection Agency

Ohio.gov State Agencies | Online Services

Location Translate

Twitter YouTube

Harmful Algal Blooms: Public Water System and other Ohio EPA Surface Water Monitoring

(For Harmful Algal Bloom data at Ohio's public beaches, visit [Ohio Department of Health's BeachGuard web site.](#))

[HAB Info Links](#)

Home » Chemical and Pollutior

Harmful Algal

The 2017 HABs Notification s

There may be water

From May - October, this page programs and from public repo

Blooms of other algae are not r

Regulated swimming beaches.

DEC encourages the public to

For information about HABs on waterbody and HAB status. To learn more, visit the [Division of Water HABs informatio](#) questions or would like to report a bloom, call 502-564-3410.

Legend | Sampling Results | Numeric Thresholds | About this site

Use the radio buttons to select a toxin or to filter by date range and site type.

Type of Toxin Sampled:

Microcystins Saxitoxin Cylindrospermopsin Anatoxin-a

Time period:

7 days 14 days 30 days 90 days 1 year All

Type of Sampling Site:

PWS Finished Drinking Water PWS Raw Water Intakes

Lakes & Reservoirs Rivers All site types

Legend

Harmful Algal Bloom (HAB) Status

Rivers and Streams

— Watch

— Warning

Lakes

■ Watch

■ Warning

Range of Toxin Concentrations

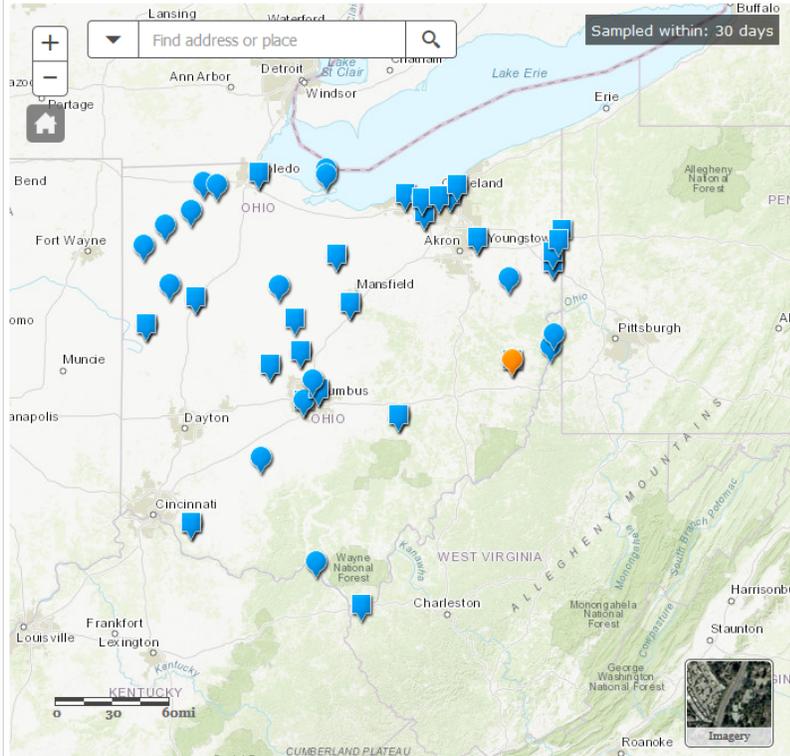
	Microcystins µg/l	Saxitoxin µg/l	Cylindrospermopsin µg/l	Anatoxin-a µg/l
■	not-detected	not-detected	not-detected	not-detected
■	detect - 0.29	detect - 0.19	detect - 0.69	detect - 19.99
■	0.3 - 1.59	0.2 - 0.79	0.7 - 2.99	20 - 79.99
■	1.6 - 19.99	0.8 - 2.99	3.0 - 19.99	80 - 299.99
■	>= 20.0	>= 3.0	>= 20.0	>= 300

Concentration Units µg/l - micrograms per liter

Site Type by Shape

■ Public Water System Finished Water

● Lakes & Reservoirs



Map showing Harmful Algal Bloom (HAB) monitoring locations across Ohio. The map includes a search bar, zoom controls, and a scale bar. A legend on the right indicates the status of rivers and streams (Watch or Warning) and lakes (Watch or Warning). The map shows various sampling sites across the state, with a concentration of sites in the western and central regions.



Inset map showing the location of the main map area within the context of the surrounding region, including labels for SALVERSVILLE, HAZARD, and DEESBORO.

Common Issues and Next Steps for State Programs

- Expanded opportunities for collaborative/volunteer monitoring
- Action levels for additional cyanotoxins
- Fish consumption and biological tissue analysis
- Multi-state, waterbody-specific response plans

Questions or Suggestions on Outreach?

- Future plans
 - Share more details at upcoming CCHAB Network meeting
 - Relay information through CCHAB subcommittees
 - Specific information upon request
 - 916-322-2088
 - Rebecca.Stanton@oehha.ca.gov
- Other opportunities?