



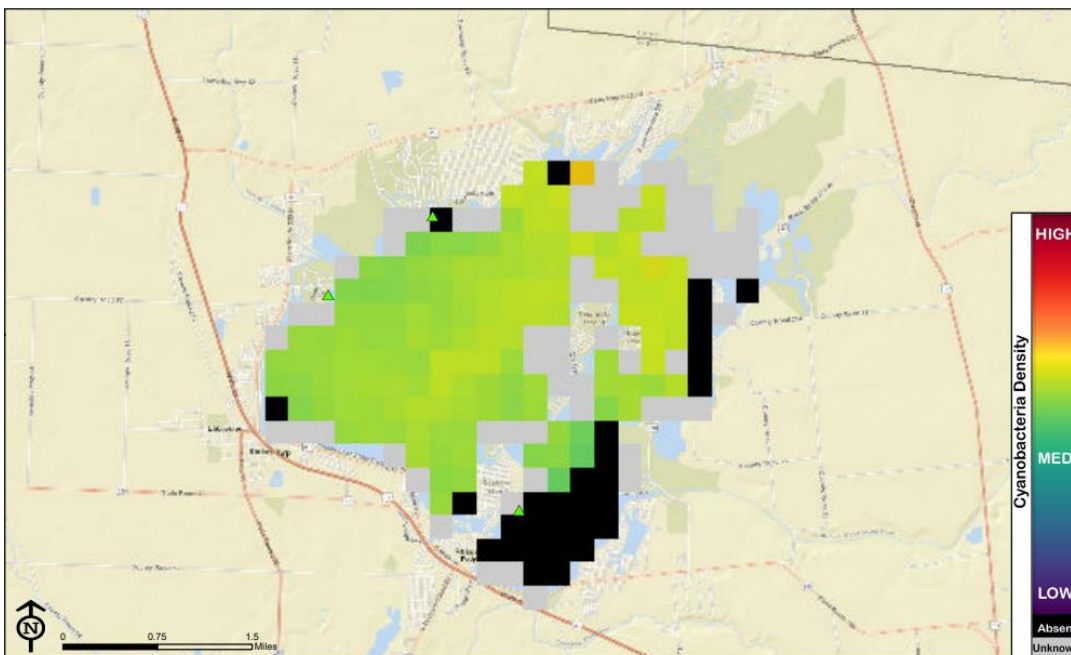
**Harmful Algal Bloom (HAB) and Cyanobacteria Update  
October 20, 2022**

The Logan County Health District receives reports of satellite imagery from the Ohio Department of Health for Indian Lake. Satellite imagery and the data it produces is still considered experimental and is being made available for community awareness. This satellite imagery can indicate the presence of cyanobacteria, which are microorganisms that can produce harmful algal blooms (HABs). HABs have the potential to make animals, including humans, sick and can also harm the aquatic environment.

On July 15, 2022, the Ohio Department of Natural Resources (ODNR) reported a possible harmful algae bloom in several areas of Indian Lake, including Old Field Beach. Samples were taken and came back negative for microcystins, which are the toxins created by cyanobacteria. A second report of a possible harmful algae bloom was reported by ODNR on October 13<sup>th</sup>; at this time no samples were taken.

ODNR reports a major shift in water quality in many of Ohio’s lakes, including Indian Lake. Many lakes are experiencing significant algae blooms, and many are lake-wide. Because the lakes are not seeing active swimmers at this time, ODNR decided not to sample most of the lakes, including Indian Lake.

The latest satellite imagery for Indian Lake, taken October 16, 2022, is showing some cyanobacteria coverage, estimated to impact more than 50% of the lake and an increase in density. Please see the image below for the current imagery as of October 16, 2022.



*Harmful Algal Bloom (HAB) Satellite Imagery  
NOAA – NOS, Copernicus Sentinel-3ab*

This data product is experimental. Cyanobacteria detections should be confirmed and may not indicate presence of cyanotoxins. Learn more about HABs at [ohioalgaefo.com](http://ohioalgaefo.com). Find beach advisories and sampling data at <http://publicapps.odh.ohio.gov/beachguardpublic>

**Indian Lake  
LOGAN COUNTY**  
*Satellite Image Taken: 10/16/2022  
V2 PROCESSING & COLOR RAMP*

- Public Water System Intake
- ▲ ODNR Sample Sites



Ohio Environmental Protection Agency  
[EPAHABmailbox@epa.ohio.gov](mailto:EPAHABmailbox@epa.ohio.gov)  
*Report Date: 10/18/2022*

Satellite imagery also showed possible HABs in the summer of 2021, but no animal or human illnesses were reported to the Logan County Health District.

The most common ways to come into contact with HABs are through drinking/swallowing, skin contact and inhaling. Drinking/Swallowing HABs-contaminated water can cause severe diarrhea and vomiting, liver toxicity (abnormal liver function, abdominal pain), kidney toxicity, neurotoxicity (weakness, salivation, tingly fingers, numbness, dizziness), difficulty breathing, and death. Skin contact with HABs-contaminated water can cause rashes, hives, and skin blisters (especially on the lips and under swimsuits). Inhaling HABs-contaminated water can cause runny eyes and nose, sore throat, asthma-like symptoms, and allergic reactions.

If you come into contact with HABs-contaminated water, rinse off with clean, fresh water as soon as possible. Individuals who are concerned that they may be experiencing HABs illness symptoms after exposure to contaminated water should contact their healthcare provider. Healthcare providers who rule out other potential causes of the symptoms and suspect a HABs illness should notify their local health district.

Pets can also experience serious health effects from exposure to HABs-contaminated water. Contact a veterinarian immediately if pets show signs of illness. Thoroughly rinse off your pets with clean, fresh water. Pets that have been in HABs-contaminated water may ingest toxins by drinking the water and/or licking their fur afterward. Do not let your pet lick himself/herself if he/she has been in HABs-contaminated water or swimming in a body of water with a posted advisory.

**Seek immediate medical attention if you think that you, your pet, or your livestock might have been poisoned by HAB toxins or if someone has a medical emergency.**

HAB illnesses are considered to be reportable. To report a HAB illness, or if you have any questions or concerns, contact the Logan County Health District at (937) 592-9040 or [LCHD@loganhealthohio.gov](mailto:LCHD@loganhealthohio.gov).