

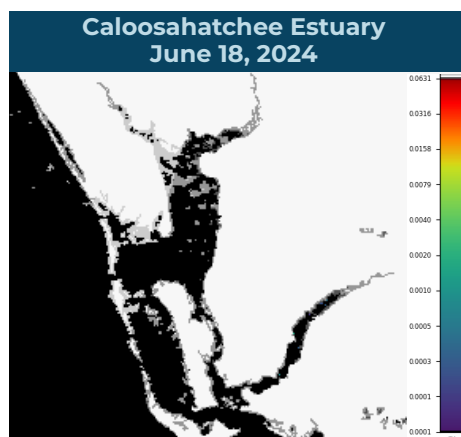


BLUE-GREEN ALGAL BLOOM WEEKLY UPDATE

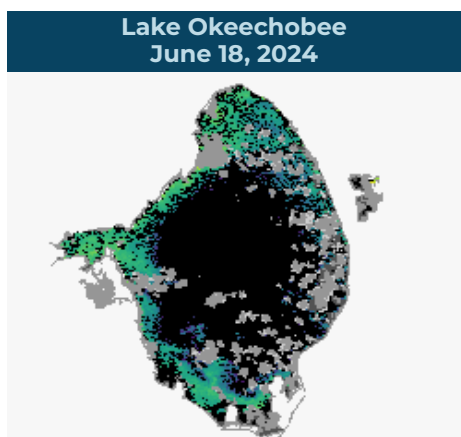
REPORTING JUNE 14 - JUNE 20, 2024

Satellite imagery provided by NOAA - Images are impacted by cloud cover.

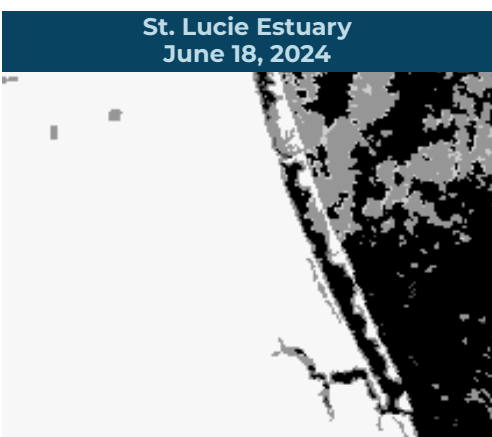
A value of 0.004 is nominally equivalent to approximately 20-30 ug/L chlorophyll a of cyanobacteria, and 0.06 would be in the 300-500 ug/L chlorophyll a range. Please keep in mind that bloom potential is subject to change due to rapidly changing environmental conditions or satellite inconsistencies (i.e., wind, rain, temperature or stage).



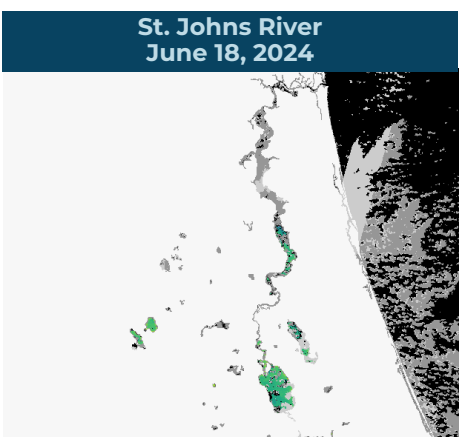
The most recent usable satellite imagery for the Caloosahatchee Estuary from 6/18 is partially obscured by cloud cover and shows scattered low bloom potential in visible portions of the estuary.



The most recent usable satellite imagery for Lake Okeechobee from 6/18 is partially obscured by cloud cover and shows low to moderate bloom potential on approximately 40% of the lake.



The most recent usable satellite imagery for the St. Lucie Estuary from 6/18 is partially obscured by cloud cover and shows no bloom potential in visible portions of the estuary.



The most recent usable satellite imagery for the St. Johns River from 6/18 is partially obscured by cloud cover and shows low to moderate bloom potential from Lake George downstream to Toco Creek; however, Florida Department of Environmental Protection (DEP) staff did collect samples from Doctors Lake this week that contained cyanotoxins.

SUMMARY

There were 55 reported site visits in the past seven days with 55 samples collected. Algal bloom conditions were observed by samplers at 16 of the sites.

On 6/17 - 6/20, DEP staff collected 14 Harmful Algal Bloom (HAB) response samples. Dominant algal taxa and cyanotoxin results follow each waterbody name.

- Lake Okeechobee - S308C:** *Microcystis aeruginosa*; no cyanotoxins detected.
- C44 canal - S308C:** *Microcystis aeruginosa*; trace level [0.40 parts per billion (ppb)] microcystins detected.
- Doctors Lake - Wyndegate Drive:** *Microcystis aeruginosa*; 1.9 ppb microcystins detected.
- Doctors Lake - End of Lawrence Road:** *Microcystis aeruginosa*; trace level (0.78 ppb) microcystins detected.
- Lake Eustis - Center:** *Microcystis aeruginosa*; no cyanotoxins detected.
- Unnamed Lake - off Sycamore Drive:** No dominant algal taxon; no cyanotoxins detected.
- Lake Rowena - West Shore:** *Microcystis aeruginosa* and *Microcystis wesenbergii* co-dominant; trace level (0.19 ppb) microcystins and 0.45 ppb cylindrospermopsin detected.
- Lake Gibson - West:** *Microcystis aeruginosa*; trace level (0.46 ppb) microcystins and trace level (0.22 ppb) cylindrospermopsin detected.
- Crescent Lake - at Sunrise Park Boat Ramp:** *Microcystis aeruginosa*; trace level (0.54 ppb) microcystins detected.
- Crescent Lake - Eagle Trail:** *Microcystis aeruginosa*; trace level (0.12 ppb) microcystins detected.
- Lake Thonotosassa - Center:** *Microcystis aeruginosa* and *Botryococcus braunii* co-dominant; 2.4 ppb microcystins detected.
- Caloosahatchee River - Alacante Canal North:** No dominant algal taxon; no cyanotoxins detected.
- Caloosahatchee River - Rivers Condo:** *Microcystis aeruginosa*; no cyanotoxins detected.
- C-17 Canal - Congress Avenue:** Results pending.

On 6/13 - 6/19, South Florida Water Management District (SFWMD) staff collected seven HAB response samples, four routine monitoring samples at structures (S77, S78, S79 and S80) and 29 Lake Okeechobee routine HAB monitoring samples (FEBIN, KISSR0.0, LZ2, NES191, L001, NES135, NCENTER, EASTSHORE, L004, L008, L005, POLESOUT3, POLESOUT2, POLESOUT1, POLESOUT, KBARSE, CLV10A, LZ40, L006, PALMOUT3, PALMOUT2, PALMOUT, LZ30, POLE3S, RITTAE2, LZ25A, L007 and PELBAY3). Dominant algal taxa and cyanotoxin results follow each waterbody name.

- Lake Okeechobee - Pahokee Marina:** *Microcystis aeruginosa*; 1.8 ppb microcystins detected.
- Lake Okeechobee - S135LOCKDS:** *Microcystis aeruginosa*; trace level (0.27 ppb) microcystins detected.
- L-47 Canal - S135LOCKUS:** No dominant algal taxon; no cyanotoxins detected.
- L8 Canal - CULV10A:** Algal results pending; no cyanotoxins detected.
- Lake Okeechobee - S352:** Algal results pending; no cyanotoxins detected.
- Lake Okeechobee - S351:** Algal results pending; 4.7 ppb microcystins detected.
- Lake Okeechobee - S354:** Algal results pending; 2.1 ppb microcystins detected.
- C43 canal - S77 (upstream):** *Microcystis aeruginosa* and *Raphidiopsis raciborskii* co-dominant; no cyanotoxins detected.
- C43 canal - S78 (upstream):** No dominant algal taxon; no cyanotoxins detected.
- C43 canal - S79 (upstream):** No dominant algal taxon; no cyanotoxins detected.
- C44 canal - C44S80 (upstream):** No dominant algal taxon; no cyanotoxins detected.
- FEBIN:** *Microcystis aeruginosa* and *Raphidiopsis raciborskii* co-dominant; no cyanotoxins detected.
- KISSR0.0:** No dominant algal taxon; no cyanotoxins detected.
- LZ2:** *Dolichospermum circinale*; no cyanotoxins detected.
- NES191:** *Microcystis aeruginosa*; no cyanotoxins detected.
- L001:** *Microcystis aeruginosa*; no cyanotoxins detected.
- NES135:** No dominant algal taxon; trace level (0.49 ppb) microcystins detected.
- NCENTER:** No dominant algal taxon; no cyanotoxins detected.
- EASTSHORE:** No dominant algal taxon; no cyanotoxins detected.
- L004:** *Microcystis aeruginosa*; no cyanotoxins detected.
- L008:** No dominant algal taxon; trace level (0.35 ppb) microcystins detected.
- L005:** *Microcystis aeruginosa* and *Dolichospermum circinale* co-dominant; no cyanotoxins detected.
- POLESOUT3:** No dominant algal taxon; no cyanotoxins detected.
- POLESOUT2:** *Microcystis aeruginosa*; no cyanotoxins detected.
- POLESOUT1:** *Microcystis aeruginosa*; no cyanotoxins detected.
- POLESOUT:** *Microcystis aeruginosa* and *Planktolyngbya limnetica* co-dominant; no cyanotoxins detected.
- KBARSE:** *Microcystis aeruginosa*; no cyanotoxins detected.
- CLV10A:** No dominant algal taxon; no cyanotoxins detected.
- LZ40:** No dominant algal taxon; no cyanotoxins detected.
- L006:** *Microcystis aeruginosa*; 5.9 ppb microcystins detected.
- PALMOUT3:** *Microcystis aeruginosa*; 6.5 ppb microcystins detected.
- PALMOUT2:** *Microcystis aeruginosa* and *Dolichospermum circinale* co-dominant; 1.6 ppb microcystins detected.
- PALMOUT1:** *Dolichospermum circinale*; no cyanotoxins detected.
- PALMOUT:** *Dolichospermum circinale*; no cyanotoxins detected.
- LZ30:** *Microcystis aeruginosa*; 6.2 ppb microcystins detected.
- POLE3S:** *Microcystis aeruginosa* and *Pseudanabaena mucicola* co-dominant; 6.7 ppb microcystins detected.
- RITTAE2:** *Microcystis aeruginosa*; trace level (0.40 ppb) microcystins detected.
- LZ25A:** *Microcystis aeruginosa*; 2.9 ppb microcystins detected.
- L007:** *Microcystis aeruginosa*; 2.2 ppb microcystins detected.
- PELBAY3:** *Microcystis aeruginosa*; no cyanotoxins detected.

On 6/17, St. Johns River Water Management District (SJRWMD) staff collected one routine monitoring sample at **Lake Washington - Center:** No dominant algal taxon; no cyanotoxins detected.

Last Week

On 6/13, DEP staff collected one HAB response sample. Dominant algal taxa and cyanotoxin results follow each waterbody name.

- Peace River - Harper Avenue Canal:** No dominant algal taxon; no cyanotoxins detected.
- On 6/13, SFWMD staff collected three HAB response samples. Dominant algal taxa and cyanotoxin results follow each waterbody name.
- Pahokee Marina:** *Microcystis aeruginosa*; trace level (0.37 ppb) microcystins detected.
- Lake Okeechobee - S135LOCKDS:** *Microcystis aeruginosa*; 1.7 ppb microcystins detected.
- L-47 Canal - S135LOCKUS:** *Microcystis aeruginosa*; no cyanotoxins detected.

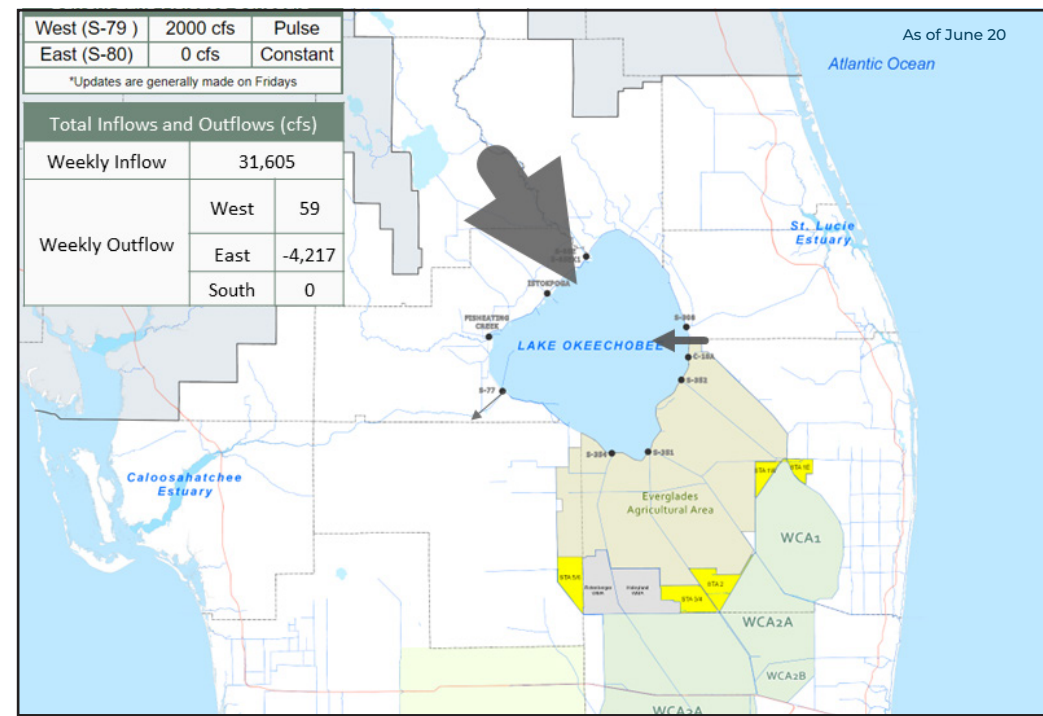
On 6/13, SJRWMD staff collected four routine monitoring samples. Dominant algal taxa and cyanotoxin results follow each waterbody name.

- Blue Cypress Lake - Center:** *Microcystis wesenbergii*; no cyanotoxins detected.
- Stick Marsh - North:** *Microcystis wesenbergii*; no cyanotoxins detected.
- Lake Jesup - Center:** *Microcystis aeruginosa* and *Planktolyngbya limnetica* co-dominant; no cyanotoxins detected.
- Lake Monroe - Center:** No dominant algal taxon; no cyanotoxins detected.

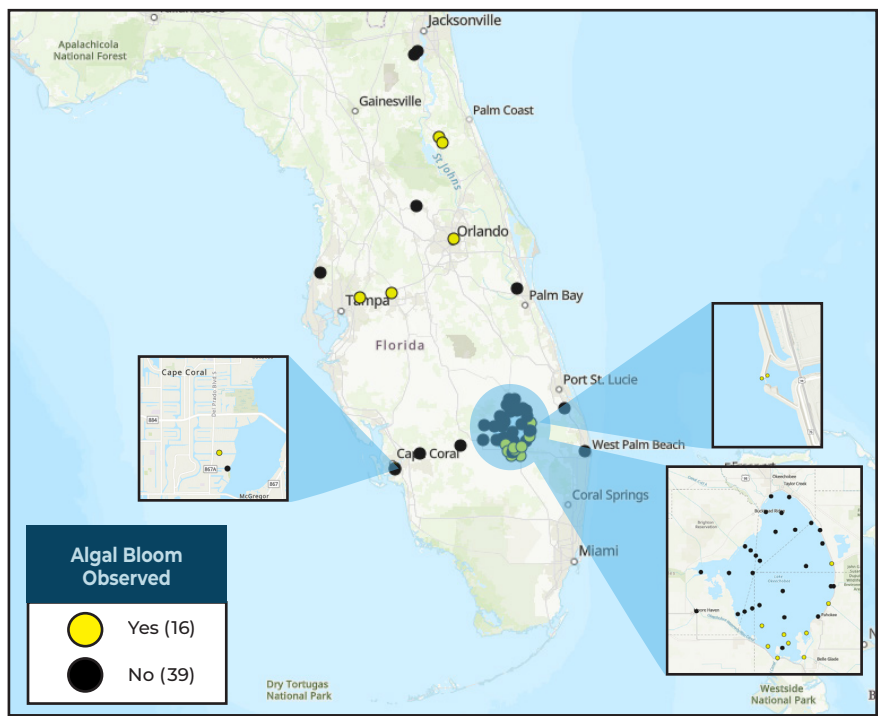
Results for completed analyses are available at FloridaDEP.gov/AlgalBloom.

This is a high-level summary of the sampling events for the reported week. For all field visit and analytical result details, please refer to the complete algal bloom map with data table by clicking the "Field and Lab Details" Quick Link from the Algal Bloom Dashboard. Different types of blue-green algal bloom species can look different and have different impacts. However, regardless of species, many types of blue-green algae can produce toxins that can make you or your pets sick if swallowed or possibly cause skin and/or eye irritation due to contact. We advise staying out of water where algae is visibly present as specks or mats or where water is discolored pea-green, blue-green or brownish-red. Additionally, pets or livestock should not come into contact with algal bloom-impacted water or with algal bloom material or fish on the shoreline.

LAKE OKEECHOBEE OUTFLOWS



SITE VISITS FOR BLUE-GREEN ALGAE



SIGN-UP FOR UPDATES

To receive personalized email notifications about blue-green algae and red tide, visit

PROTECTING TOGETHER

ProtectingFloridaTogether.gov

REPORT PUBLIC HEALTH ISSUES

HUMAN ILLNESS

Florida Poison Control Centers can be reached 24/7 at 800-222-1222 (DOH provides grant funding to the Florida Poison Control Centers)

OTHER PUBLIC HEALTH CONCERNS

CONTACT DOH
(DOH county office)

FloridaHealth.gov/all-county-locations.html

REPORT ALGAL BLOOMS

SALTWATER BLOOM

- Observe stranded wildlife or a fish kill.
- Information about red tide and other saltwater algal blooms.

CONTACT FWC
800-636-0511 (fish kills)
888-404-3922 (wildlife Alert)

MyFWC.com/RedTide

FRESHWATER BLOOM

- Observe an algal bloom in a lake or freshwater river.
- Information about blue-green algal blooms.

CONTACT DEP
855-305-3903 (to report freshwater blooms)

FloridaDEP.gov/AlgalBloom