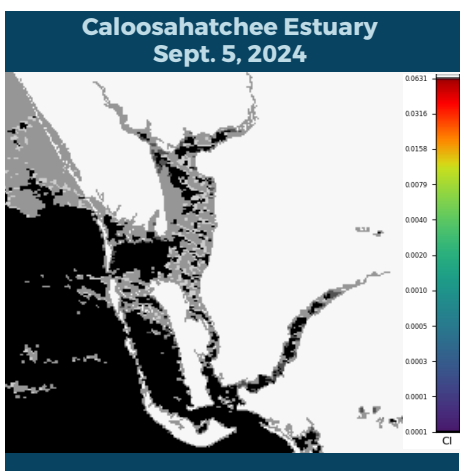
BLUE-GREEN ALGAL BLOOM WEEKLY UPDATE

REPORTING AUG. 30 – SEPT. 5, 2024

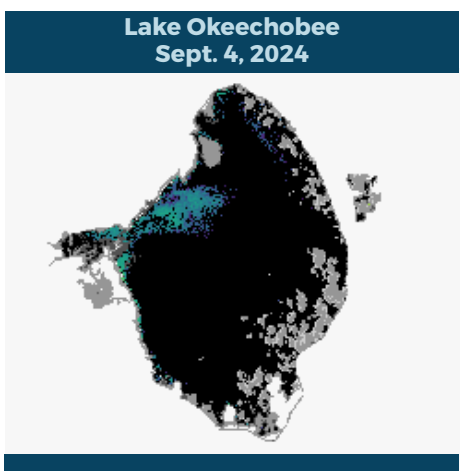
Satellite imagery provided by NOAA - Images are impacted by cloud cover.
A value of 0.004 is nominally equivalent to approximately 20-30 ug/L chlorophyll a of cyanobacteria, and 0.06 would be in the 300-500 ug/L chlorophyll a range.
Please keep in mind that bloom potential is subject to change due to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

Caloosahatchee Estuary
Sept. 5, 2024



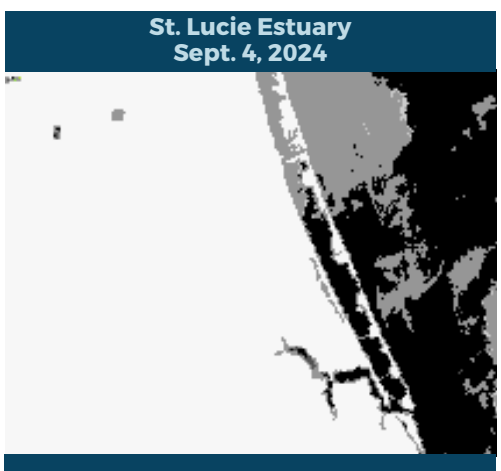
The most recent usable satellite imagery for the Caloosahatchee Estuary from 9/5 is partially obscured by cloud cover and shows no bloom potential in visible portions of the estuary.

Lake Okeechobee
Sept. 4, 2024



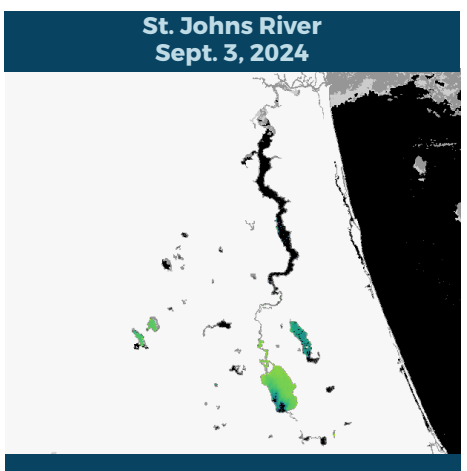
The best available satellite imagery for Lake Okeechobee from 9/4 is partially obscured by cloud cover and shows scattered low to moderate bloom potential primarily in the northwest quadrant of the lake and along the western and northern shoreline.

St. Lucie Estuary
Sept. 4, 2024



The most recent usable satellite imagery for the St. Lucie Estuary from 9/4 is partially obscured by cloud cover and shows no bloom potential in visible portions of the estuary.

St. Johns River
Sept. 3, 2024



The most recent usable satellite imagery for the St. Johns River from 9/3 is partially obscured by cloud cover and shows moderate bloom potential on most of Lake George, with scattered low to moderate bloom potential on the mainstem of the St. Johns River downstream of Lake George to Shands Bridge.

SUMMARY

There were 43 reported site visits in the past seven days with 43 samples collected. Algal bloom conditions were observed by samplers at nine of the sites.

On 9/3 – 9/5, Florida Department of Environmental Protection (DEP) staff collected 10 Harmful Algal Bloom (HAB) response samples. Dominant algal taxa and cyanotoxin results follow each waterbody name

Doctors Lake - Mill Cove: *Microcystis aeruginosa;* trace level [0.55 parts per billion (ppb)] microcystins detected.
Doctors Lake - Center: No dominant algal taxon; trace level (0.37 ppb) microcystins detected.
Doctors Lake - Pace Island dock: No dominant algal taxon; no cyanotoxins detected.
Doctors Lake - Wyndegate Drive: No dominant algal taxon; no cyanotoxins detected.
Doctors Lake - Camp Echockotee: No dominant algal taxon; no cyanotoxins detected.
Doctors Lake - end of Lawrence Road: *Microcystis aeruginosa*; trace level (0.42 ppb) microcystins detected.
Doctors Lake - Magnolia Road: *Microcystis aeruginosa;* trace level (0.46 ppb) microcystins detected.
Swimming Pen Creek - Whiteys Fish Camp: *Microcystis aeruginosa*; trace level (0.54 ppb) microcystins detected.
Ortega River – Seminole Park: Results pending.
Lake Petty Gulf: *Scytonema arcangelii*; trace level (0.36 ppb) cylindrospermopsin detected.

On 9/3 – 9/4, South Florida Water Management District staff collected six routine HAB monitoring samples at structures [**S77, S78, S79, S80, S308C (lakeside)** and **C44 canal - S308C**], and 27 Lake Okeechobee routine HAB monitoring samples (**KISSR0.0, LZ2, NES191, L001, NES135, NCENTER, EASTSHORE, L004, L008, L005, POLESOUT3, POLESOUT2, POLESOUT1, POLESOUT, KBARSE, CLV10A, LZ40, L006, PALMOUT3, PALMOUT2, PALMOUT1, PALMOUT, LZ30, POLE3S, RITTAE2, LZ25A** and **L007**). Dominant algal taxa and cyanotoxin results follow each waterbody name.

C43 canal - S77 (upstream): No dominant algal taxon; 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: No dominant algal taxon; no cyanotoxins detected.
Lake Okeechobee - S308C (lakeside): Pending; no cyanotoxins detected.
C44 canal - S308C: Pending; no cyanotoxins detected.
KISSR0.0: No dominant algal taxon; no cyanotoxins detected.
LZ2: *Microcystis aeruginosa*; no cyanotoxins detected.
NES191: No dominant algal taxon; no cyanotoxins detected.
L001: No dominant algal taxon; no cyanotoxins detected.
NES135: No dominant algal taxon; no cyanotoxins detected.
NCENTER: No dominant algal taxon; no cyanotoxins detected.
EASTSHORE: No dominant algal taxon; no cyanotoxins detected.
L004: No dominant algal taxon; no cyanotoxins detected.
L008: No dominant algal taxon; no cyanotoxins detected.
L005: *Microcystis aeruginosa*; no cyanotoxins detected.
POLESOUT3: *Microcystis aeruginosa*; trace level (0.61 ppb) microcystins detected.
POLESOUT2: *Microcystis aeruginosa*; no cyanotoxins detected.
POLESOUT1: *Microcystis aeruginosa* and *Planktolyngbya limnetica* co-dominant; no cyanotoxins detected.
POLESOUT: *Microcystis wesenbergii*; no cyanotoxins detected.
KBARSE: No dominant algal taxon; no cyanotoxins detected.
CLV10A: No dominant algal taxon; no cyanotoxins detected.
LZ40: *Microcystis aeruginosa*; no cyanotoxins detected.
L006: No dominant algal taxon; no cyanotoxins detected.
PALMOUT3: *Microcystis aeruginosa*; trace level (0.31 ppb) microcystins detected.
PALMOUT2: No dominant algal taxon; no cyanotoxins detected.
PALMOUT1: No dominant algal taxon; no cyanotoxins detected.
PALMOUT: *Microcystis aeruginosa*; no cyanotoxins detected.
LZ30: No dominant algal taxon; no cyanotoxins detected.
POLE3S: *Microcystis aeruginosa*; no cyanotoxins detected.
RITTAE2: *Microcystis* sp.; no cyanotoxins detected.
LZ25A: No dominant algal taxon; no cyanotoxins detected.
L007: No dominant algal taxon; no cyanotoxins detected.

Last Week

On 8/29, DEP staff collected a HAB response sample at **San Marco Canal – Las Olas.** The sample was dominated by *Microcystis aeruginosa* and had no cyanotoxins detected.

On 8/29, St. Johns River Water Management District staff collected routine HAB monitoring samples from **Lake Washington – Center** and **Lake Jesup – Center**. Dominant algal taxa and cyanotoxin results follow each waterbody name.

Lake Washington – Center: No dominant algal taxon; no cyanotoxins detected.
Lake Jesup – Center: *Raphidiopsis raciborskii*; trace level (0.20 ppb) cylindrospermopsin detected.

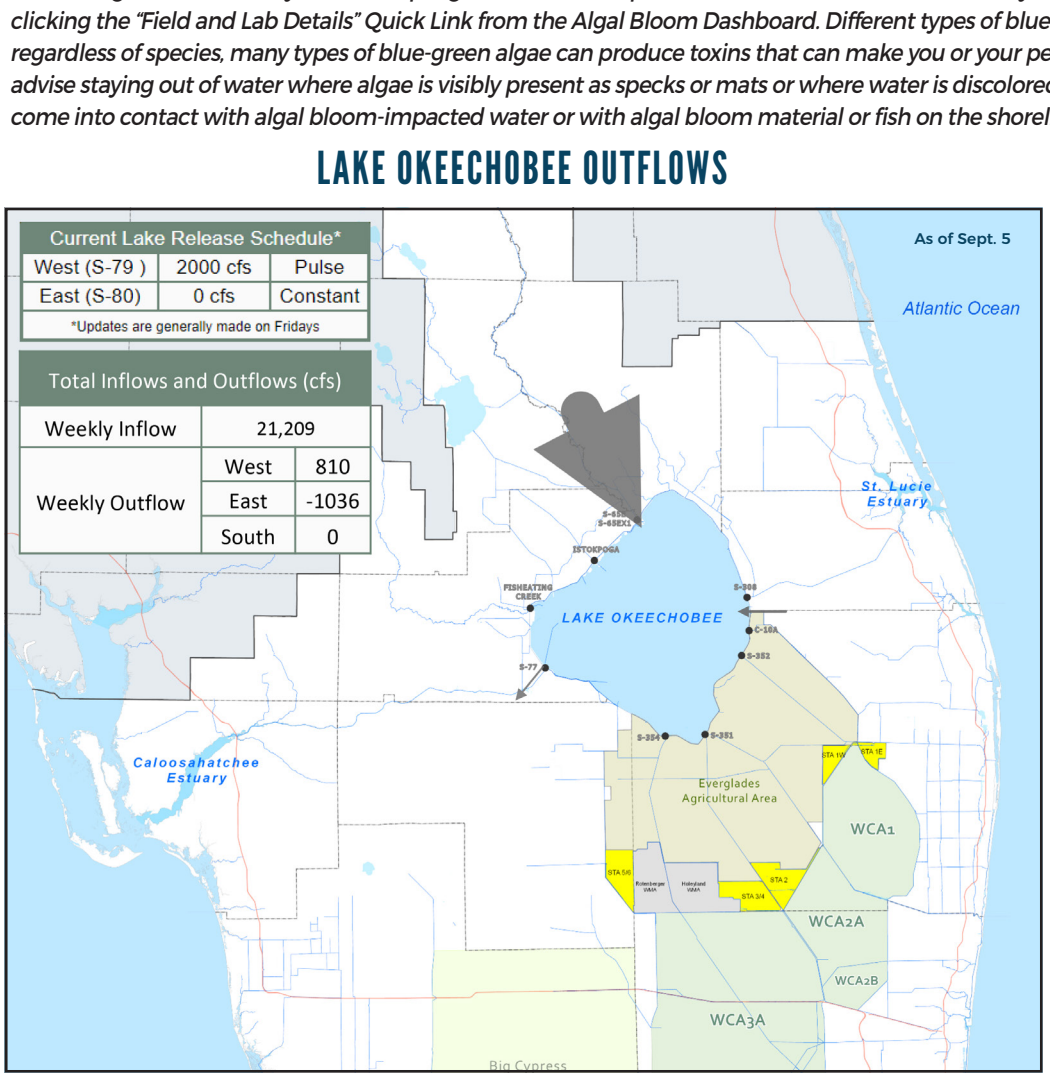
Results for completed analyses are available at FloridaDEP.gov/AlgalBloom.

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

Current Lake Release Schedule*		
West (S-79)	2000 cfs	Pulse
East (S-80)	0 cfs	Constant
*Updates are generally made on Fridays		

Total Inflows and Outflows (cfs)		
Weekly Inflow	21,209	
Weekly Outflow	West	810
	East	-1036
	South	0



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