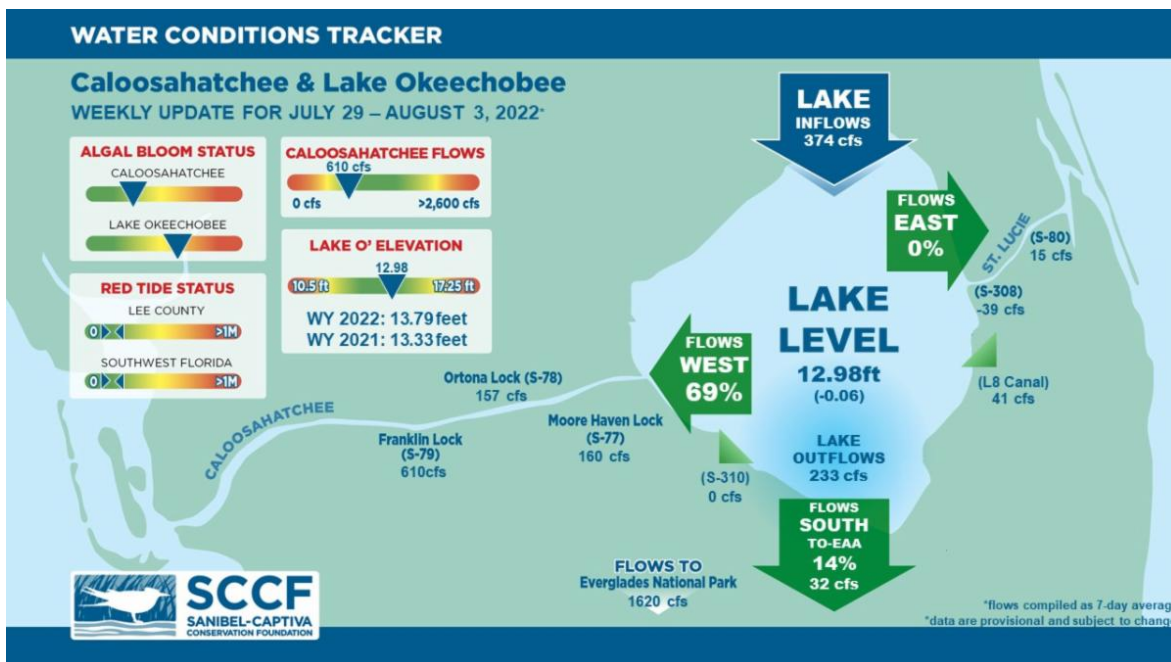




This Week's Water Conditions Update

August 5, 2022

Water Conditions Tracker



Lake Okeechobee Levels & Caloosahatchee Flow Impacts

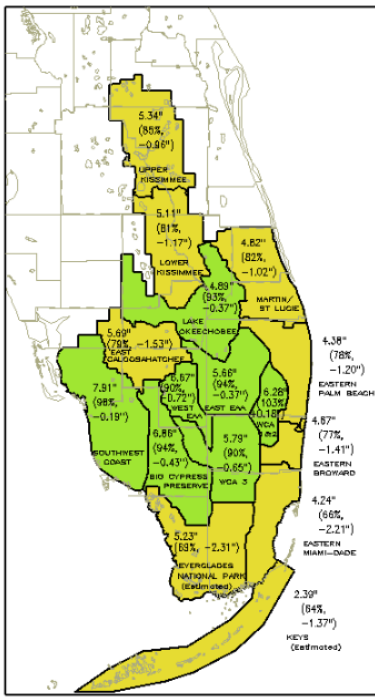
On 8/3/22 Lake Okeechobee was at 12.98 feet, decreasing by 0.06 feet in the past week. The weekly average flow at S-79 was 610 cfs (cubic feet per second) and flow from the Lake at S-77 was an average of 160 cfs. The 14-day average flow was **768 cfs** and has been in the optimal flow envelope (750 - 2100 cfs) for 39 days.

For more information on Lake Okeechobee and estuary conditions go to the latest [Caloosahatchee Conditions Report](#)

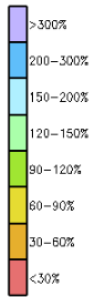
Weather Update

Rainfall for the month of July was 87% of normal district wide. A deficit of rain in the upper and lower Kissimmee basins led to decreased water levels in the Kissimmee

SFWMD Rainfall
02-JUL-2022 to 29-JUL-2022



DISTRICT-WIDE: 5.68" (87%, -0.82")



Measured (% of Avg. Diff from Avg.)



2022-07-31-18:42

© SFWMD COLA/ICES

River floodplain and reduced inflows to the Lake from the north. Lake levels are steady during a time of the year when they are typically rising. The lake stage is within its preferred ecological envelope and has been for over 80% of 2022.

Lake Okeechobee Stage vs Ecological Envelope

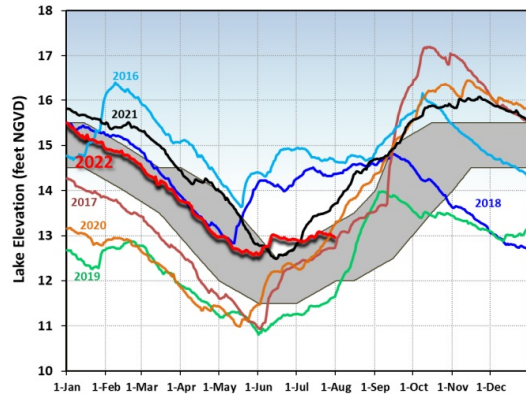


Figure LO-3. The prior six years of annual stage hydrographs for Lake Okeechobee in comparison to the ecological envelope.

Images provided by the South Florida Water Management District

Army Corps Reduces Flow to S-79

On 7/30/22 the USACE reduced target flows at the W.P. Franklin Lock and Dam (S-79) to 7-day average pulse release of 650 cfs from the previous target of 750 cfs. Local basin runoff has been exceeding the targets set for the past several months, so very little water has left the lake from the Julian Keen Jr. Lock and Dam (S-77).



Sanibel Captiva Conservation Foundation

8/2/22

Virtual Water Quality Tour from Lighthouse Beach

[Click here](#) or on the image above to take a virtual tour from above Lighthouse Beach Park to see how the water looked this week.

Photo was taken on 8/2/22 at 2:18 PM on a rising tide (High tide @ 3:42PM (2.70ft)).

Red Tide

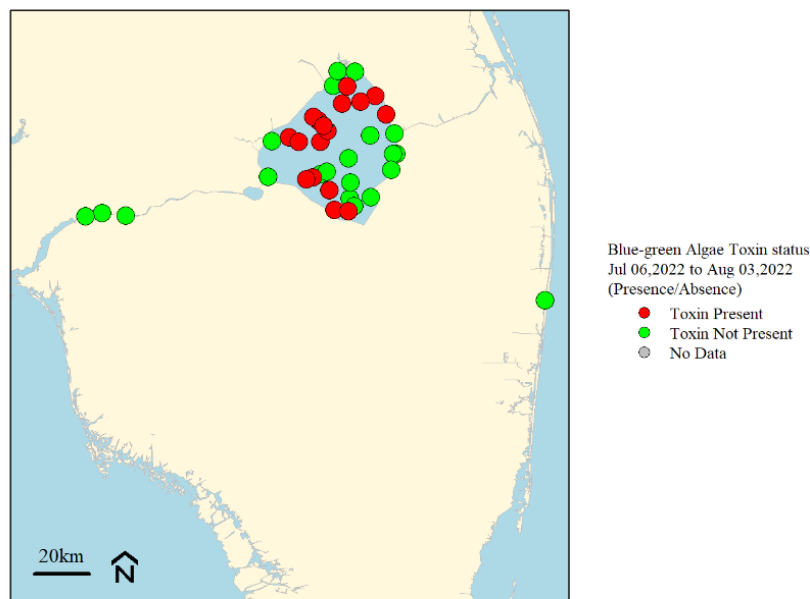
[Satellite imagery](#) over the past week has not detected any blooms off the coast of Southwest Florida.

On 7/22/22, the FWC reported that the red tide organism, *Karenia brevis* was not observed in Southwest Florida

The Clinic for the Rehabilitation of Wildlife (CROW) on Sanibel received 1 bird with toxicosis symptoms (from red tide or blue-green algae) from 7/18/22 - 8/1/22.

Blue-Green Algae

On 8/1/22 sampling for cyanobacteria by the Lee County Environmental Lab reported the **presence** of *Microcystis* at the **Alva Boat Ramp** as visible specks with no accumulation and *Microcystis* and *Dolichospermum* upstream of the Franklin Locks with visible specks and yellow scum along the locks. *Microcystis* and *Dolichospermum* were **moderately abundant** at the Davis Boat Ramp with streaks and some accumulation long the seawall.



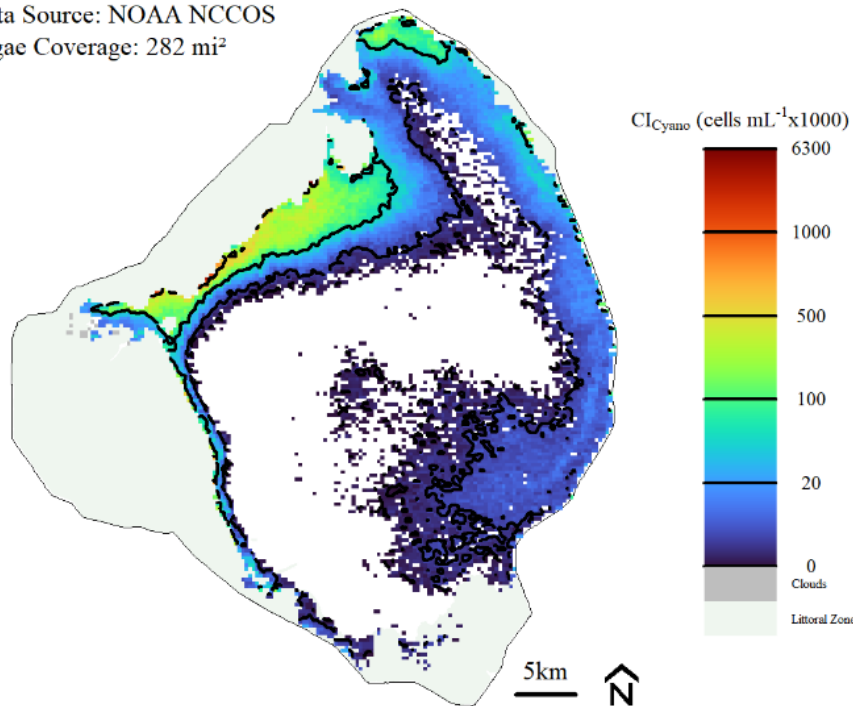
Blue-green Algae sampling results for the last 30-days for the 10 county area (Lee, Collier, Hendry, Glades, Okeechobee, Martin, Palm Beach, Broward, Miami-Dade and Monroe). Data from FDEP Blue-green algae dashboard

Data are provisional and subject to change.

Data from the [FDEP blue-green algae dashboard](#) reported 108 samples collected over the past 30 days for the 10 county area. 19 samples had toxins present ranging from 0.26 to 3.5 μg per L which is **below** the EPA recommended standard for recreational waters (8 μg per L).

On 8/3/22, [satellite imagery](#) from Lake Okeechobee showed moderate to high bloom potential in the northern, western, and eastern nearshore areas of the lake. Overall, algal blooms covered about 282 square miles (40%) of the Lake.

Date: 08-03-2022
Data Source: NOAA NCCOS
Algae Coverage: 282 mi²



Cyanobacteria Algal Index across Lake Okeechobee. Data from NOAA NCCOS HAB data explorer.

Data are provisional and subject to change.

Become a Citizen Scientist and Get the Algae Reporting App Today!

SCCF wants to know when and where all types of algae sightings occur to monitor conditions around the islands and to investigate algae bloom occurrence with patterns in seasonal weather changes and Lake Okeechobee water management practices.

Download the algae reporting app on your phone by [clicking here](#) or by searching for the ArcGIS Survey123 app in the app store. Once installed, give the app permission to access your phone's location to receive GPS coordinates of your sighting and camera/media to capture and attach pictures. When you open the app, click "Continue Without Signing In."



Next, download the algae reporting survey by scanning the QR code above or [clicking here](#) on your phone. Once the survey is downloaded, fill out the required fields and click the check mark in the lower right corner to submit your sighting. Note: If you do not have cellular coverage, you can still fill out the survey and save it in the outbox to be sent later. [Click here](#) to download instructions.

Resources To Follow:

To learn more about our current water conditions, click on the following links:

[Caloosahatchee Conditions Report](#)

A collaborative, weekly analysis, including recommendations for water managers regarding Lake Okeechobee flows.

[RECON](#)

SCCF's River, Estuary, and Coastal Observing Network is a network of eight optical water quality sensors deployed throughout the Caloosahatchee and the Pine Island Sound

estuary to provide real-time water quality data.

[Caloosahatchee River Virtual Tour](#)

[Red Tide Resources](#)

[NOAA HAB Monitoring System - Lake Okeechobee](#)

[Algae Reporting App.](#)

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