

BIG CYPRESS BASIN BOARD MEETING

BCB WATER CONDITIONS REPORT
February 25, 2021

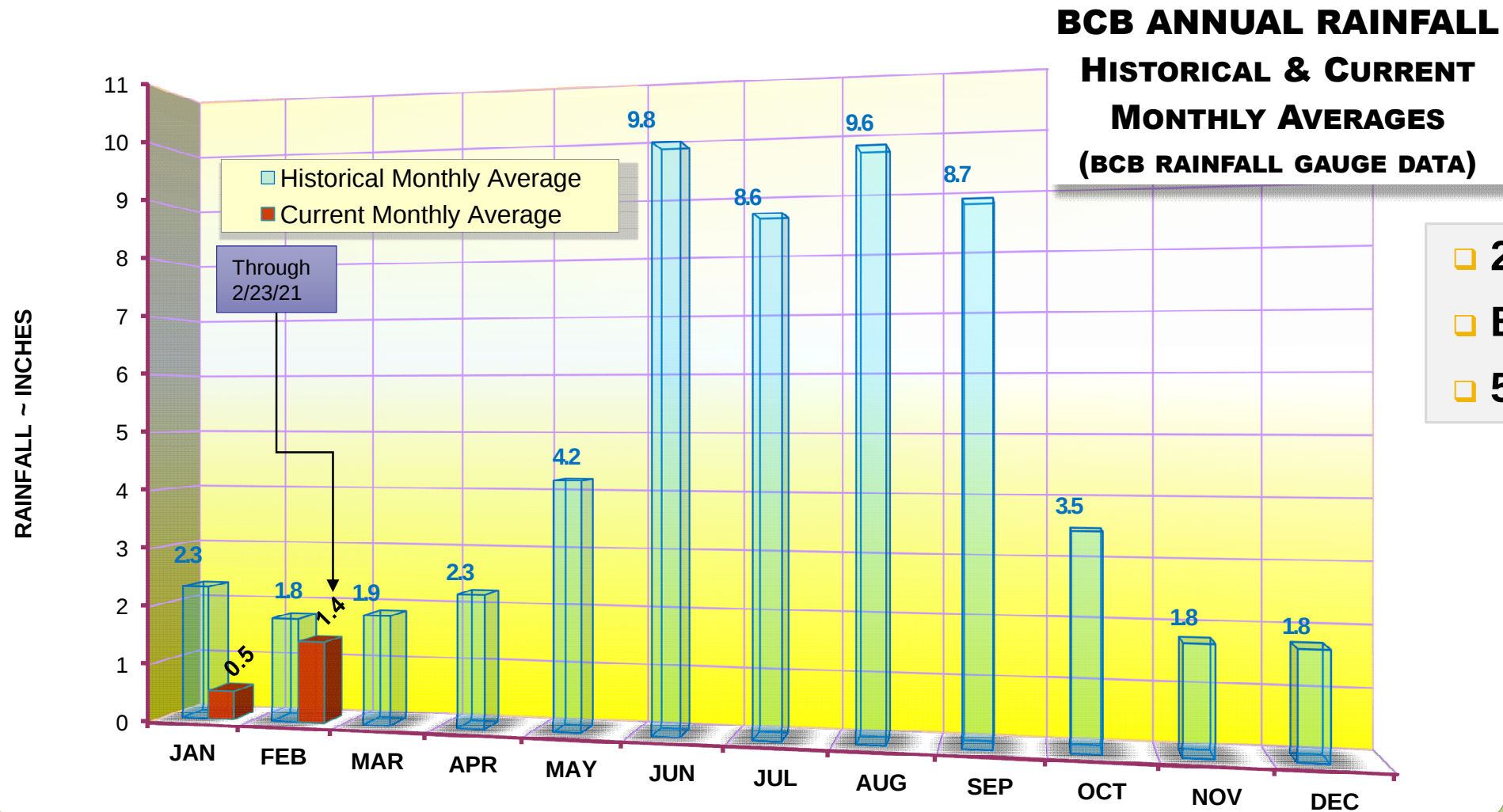


Brad J Jackson, P.E., CFM
Principal Engineer
Big Cypress Basin

DRAFT

Hydrologic Conditions ~ BCB Gauge Rainfall

2021 MONTHLY SUMMARY

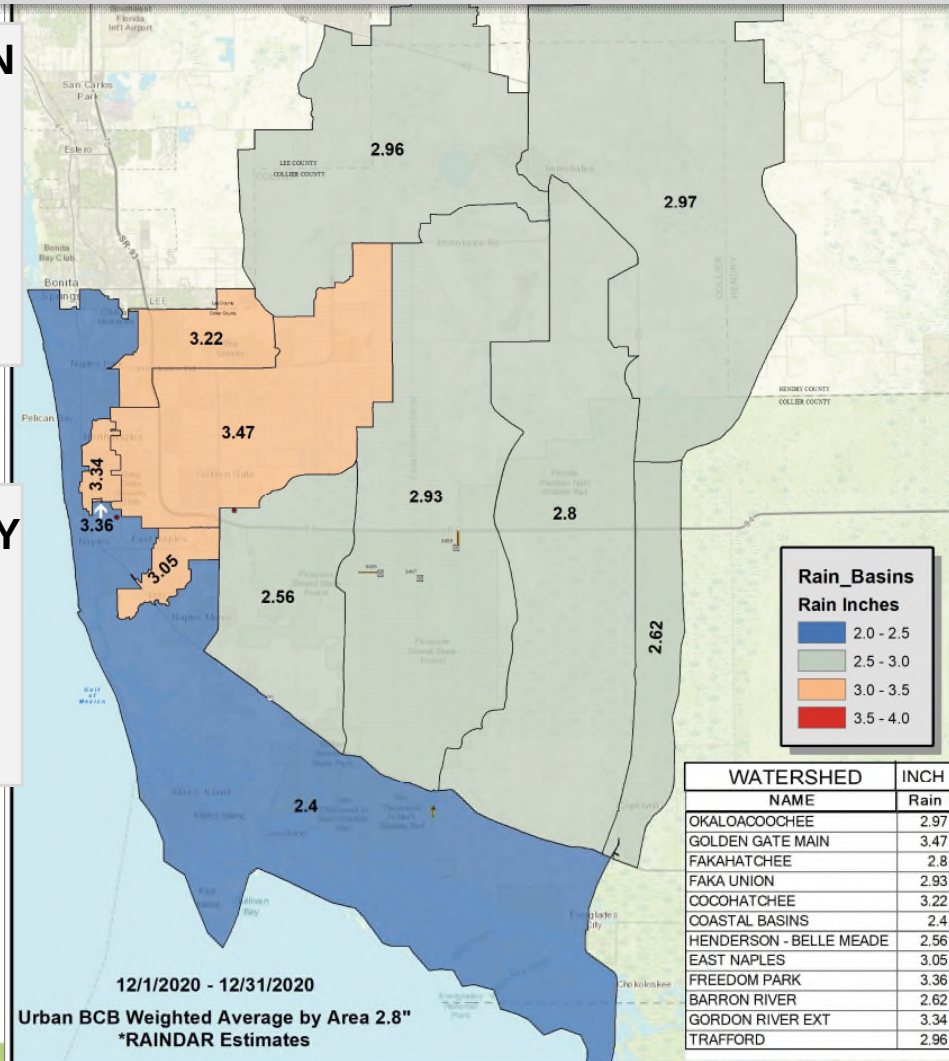


- 2021 YTD TOTAL = 1.9 IN
- BASIN AVG TOTAL = 3.7 IN
- 51% OF NORMAL YTD

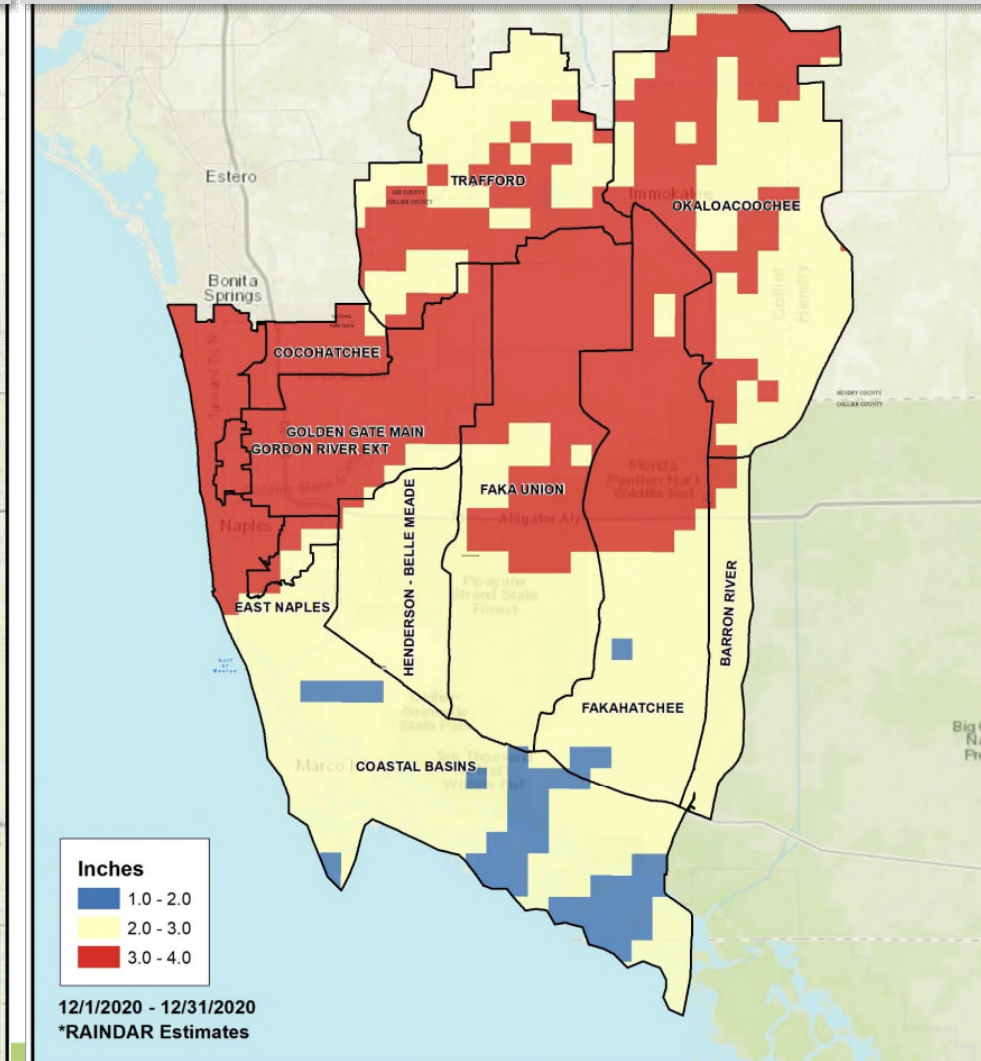
NOTE: COVERAGE FOR LOCALITIES
WITHIN BCB GAUGE NETWORK ONLY

Hydrologic Conditions ~ BCB Rainfall

DEC. 2020 RAIN BY BASIN



DEC. 2020 RAINDAR



HISTORICAL COMPARISON

2020: 3.2"

HIGH: 5.8" (1997)

LOW: 0.03" (1990)

AVG: 1.6"

2020 RAINFALL SUMMARY

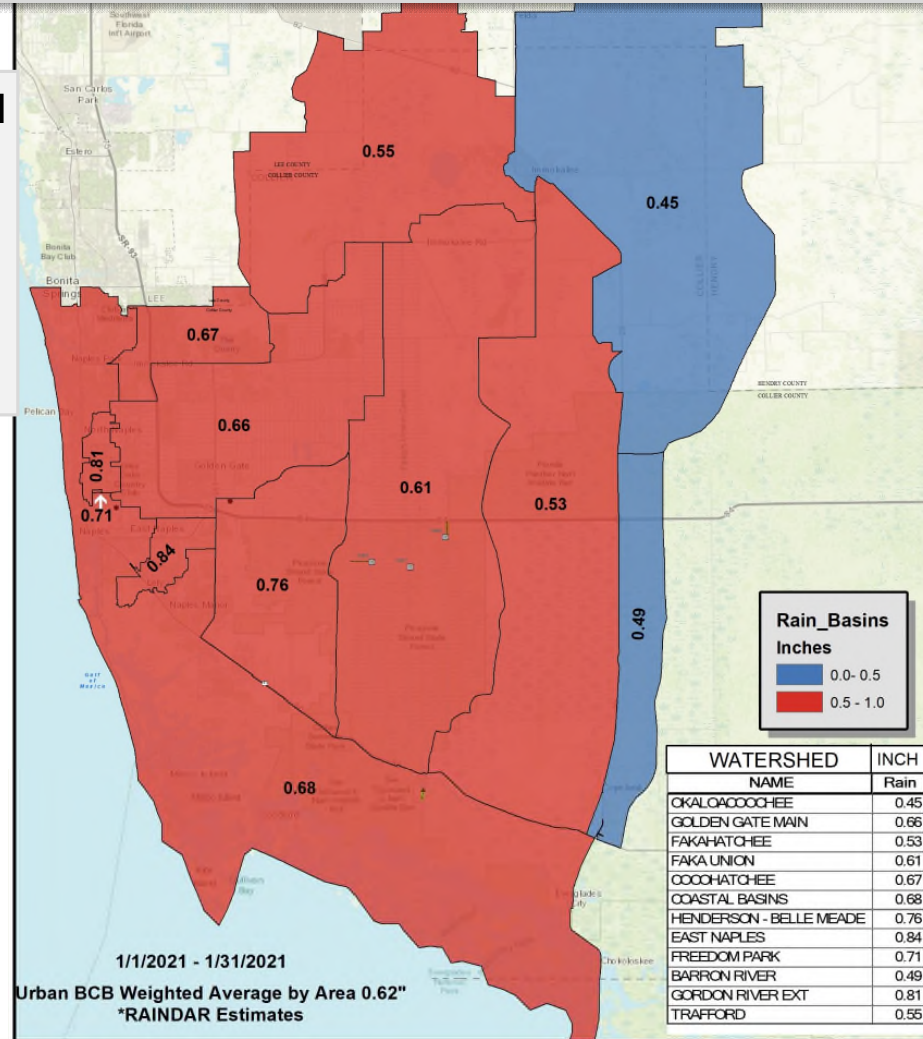
TOTAL: 56.1"

AVERAGE: 56.6"

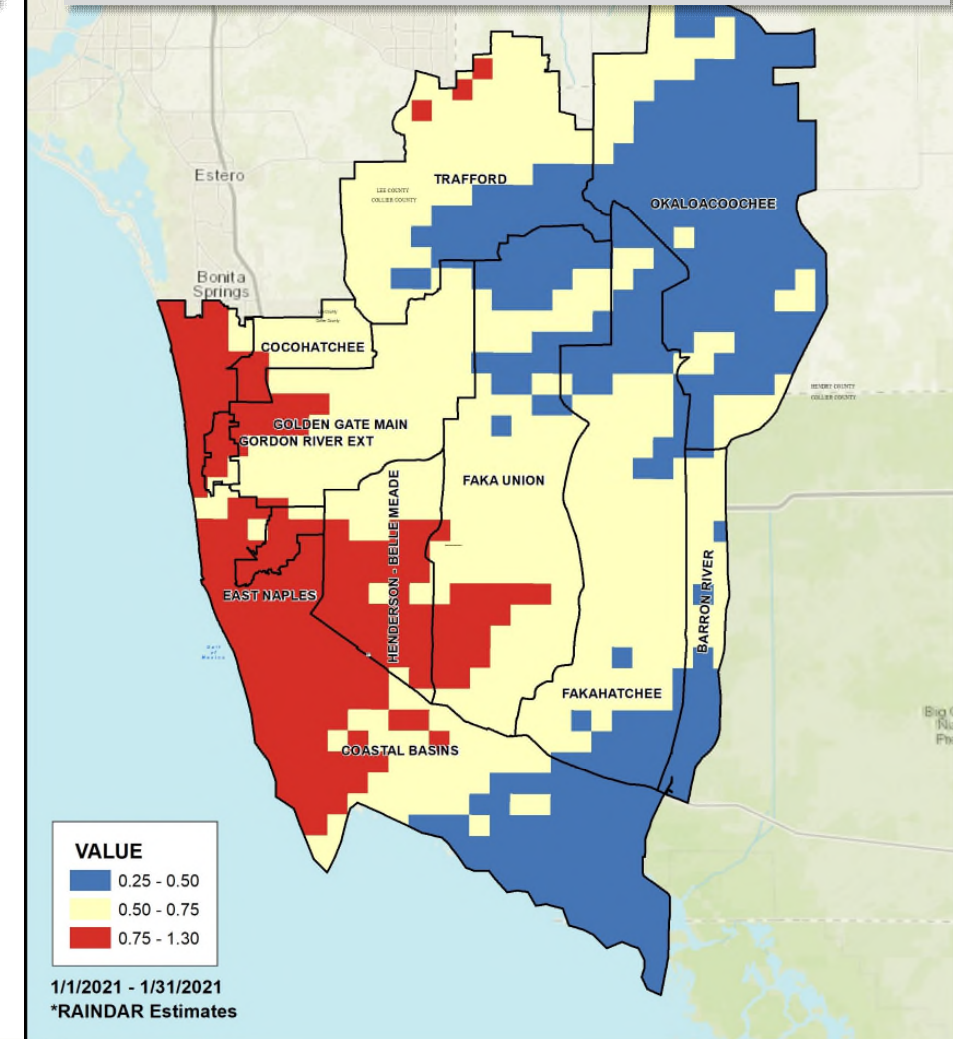
99% OF AVERAGE

Hydrologic Conditions ~ BCB Rainfall

JANUARY 2021 BY BASIN



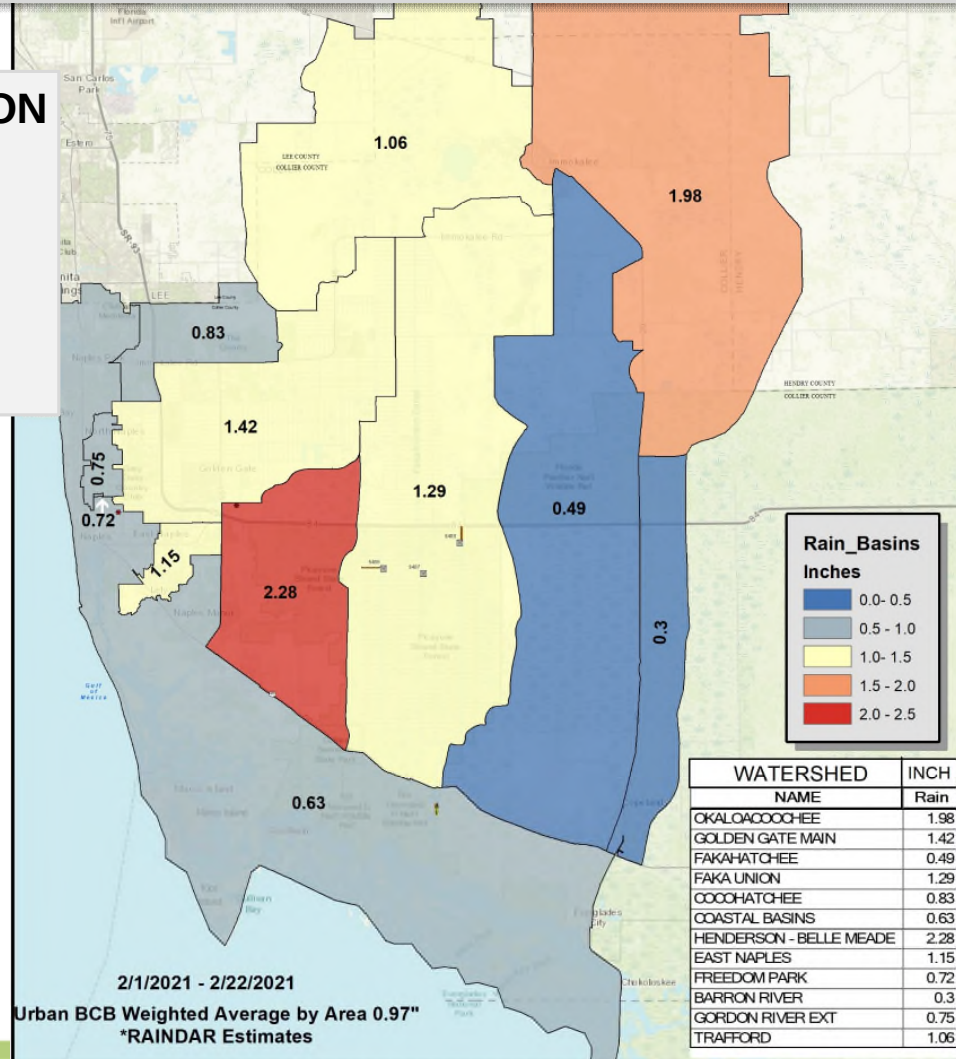
JANUARY 2021 RAINDAR



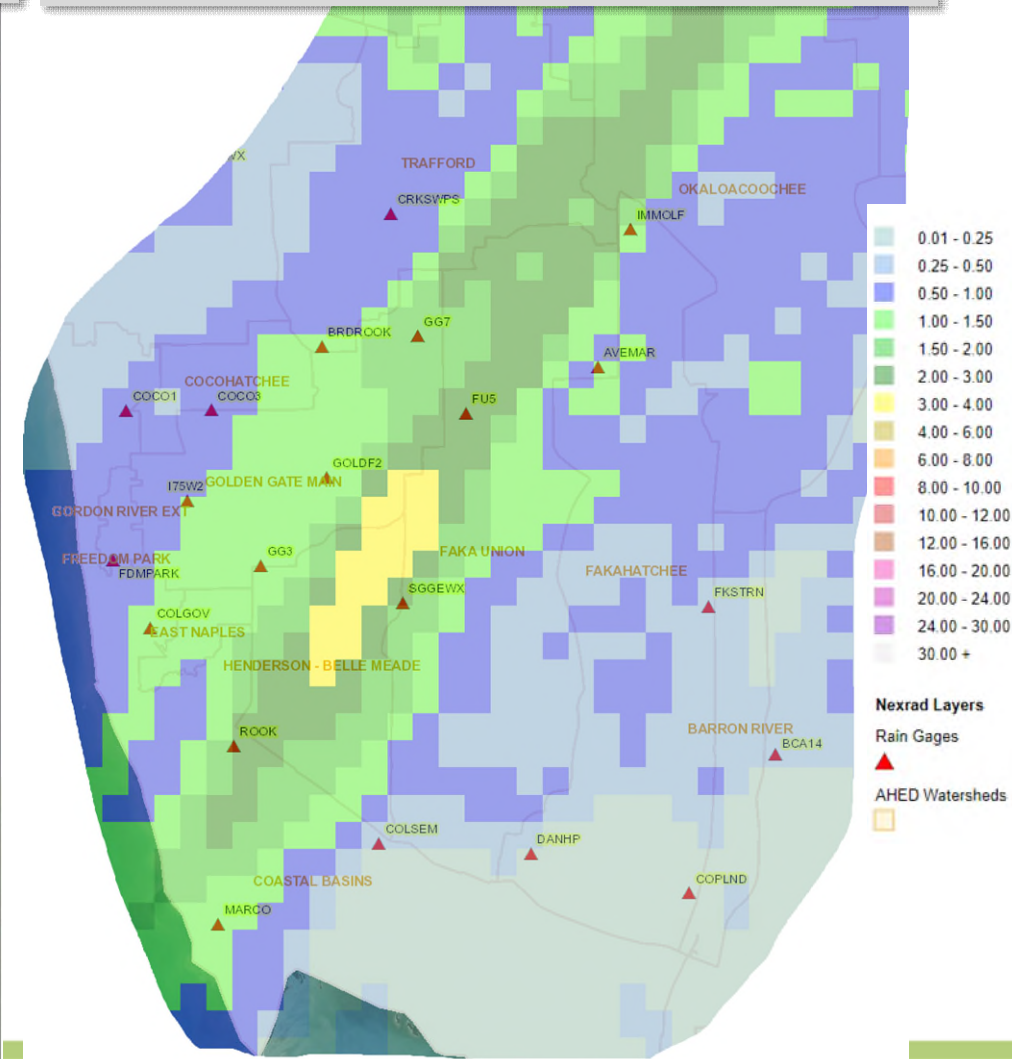
HISTORICAL COMPARISON
2021: 0.5"
HIGH: 10.6" (2016)
Low: 0.2" (2013)
AVG: 2.3"

Hydrologic Conditions ~ BCB Rainfall

FEBRUARY 2021 BY BASIN

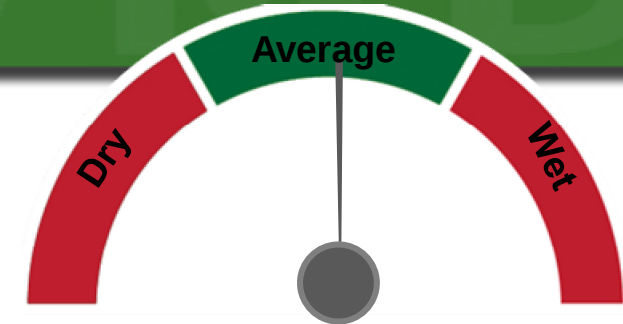
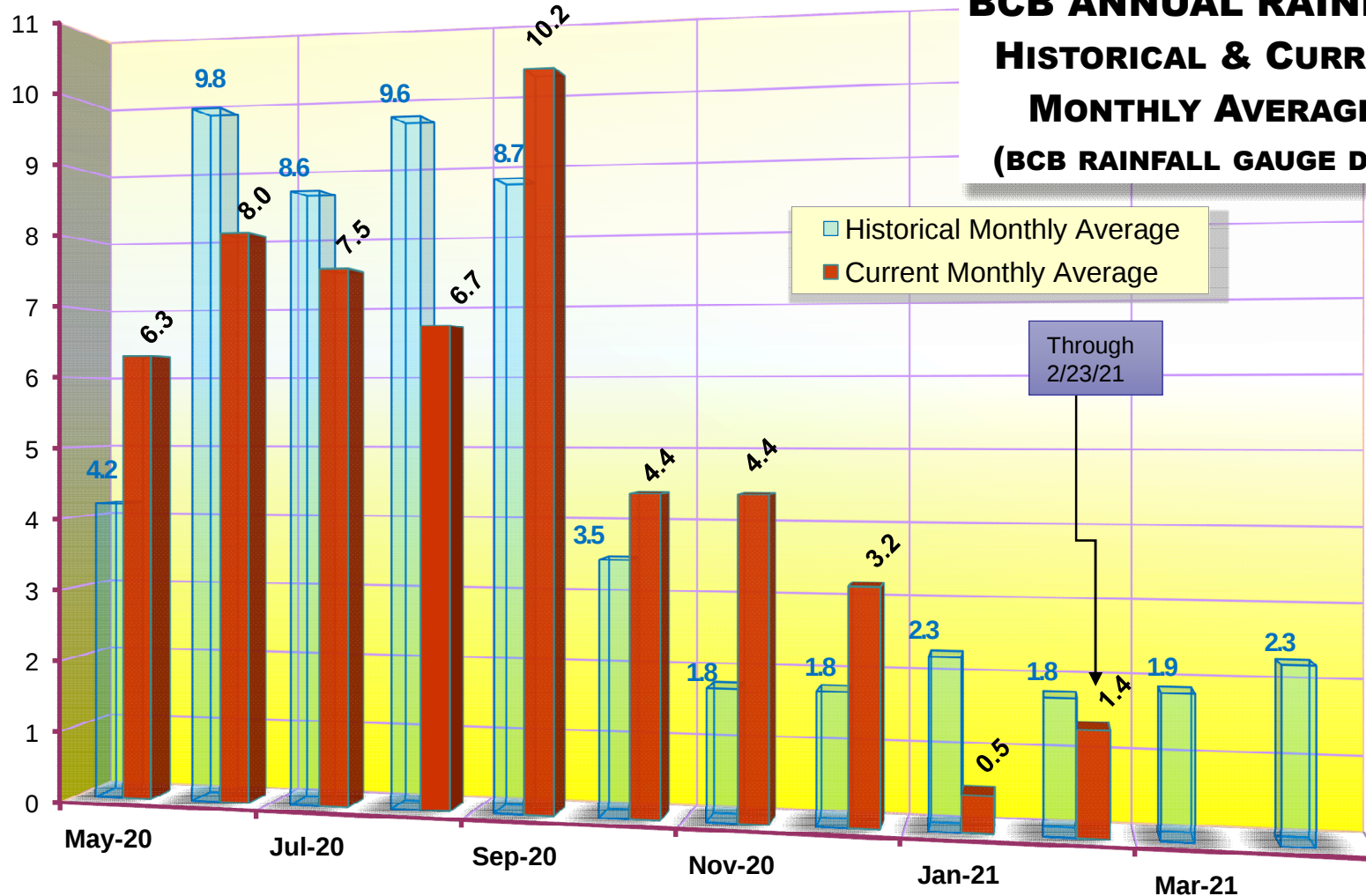


FEBRUARY 2021 RAINDAR



BCB Water Year Summary

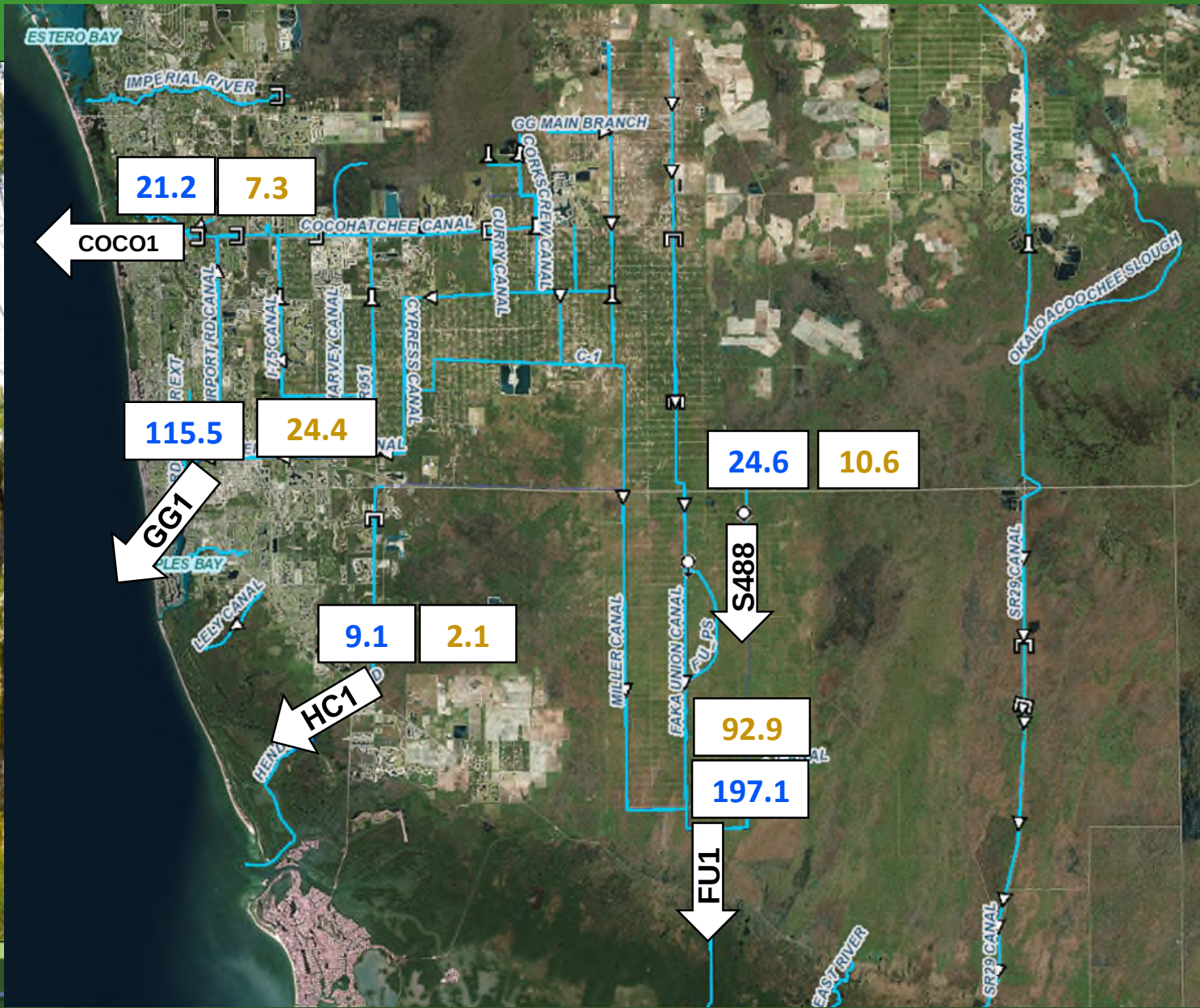
BCB ANNUAL RAINFALL HISTORICAL & CURRENT MONTHLY AVERAGES (BCB RAINFALL GAUGE DATA)



Water Year Rainfall
May 1, 2020 –
Feb 23, 2021
BCB Total Rainfall: 52.6"

- 102% of average
- Approx. 0.9" surplus
- Wet Season Start - May 15, 2020
- Wet Season End – Nov. 18, 2020

BCB - Outflow Volumes



BCB – Release Volumes
(volumes in 1,000 acre-feet)

Wet Season - Volume discharges
05/01/20 to 11/18/20

Dry Season - Volume discharges
11/19/20 to 2/22/21

Flood Control Discharges - Water Year
2020-2021

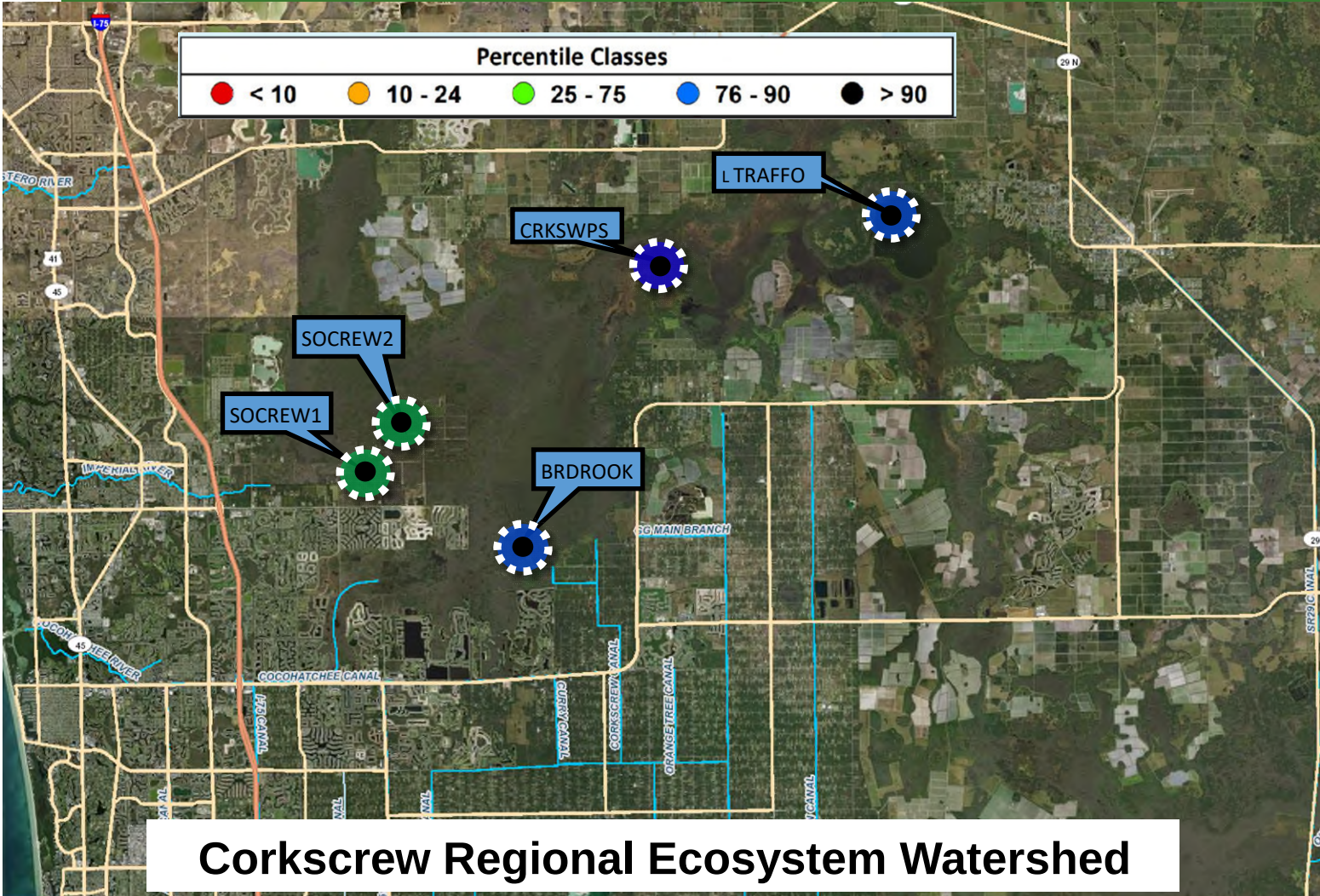
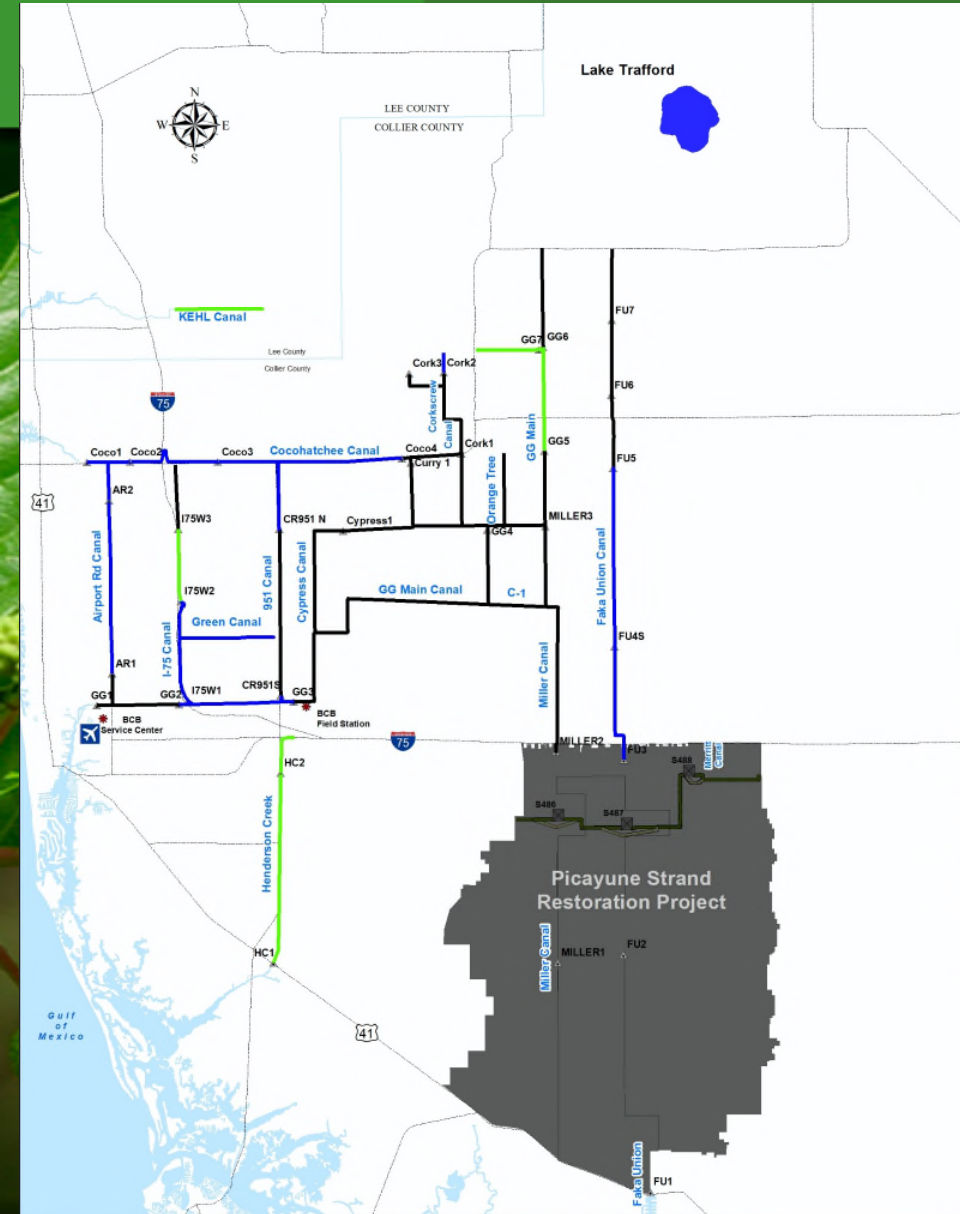
COCO1 – Early Jun. 2020 – Late Feb. 2021

HC1 – Early Jun. 2020 – Late Jan. 2021

GG1 & FU1 – Late May 2020 – Ongoing

S488 – Late Jun. 2020 – Late Jan. 2021

Big Cypress Basin Hydrologic Conditions as of 2/22/2021



Corkscrew Regional Ecosystem Watershed

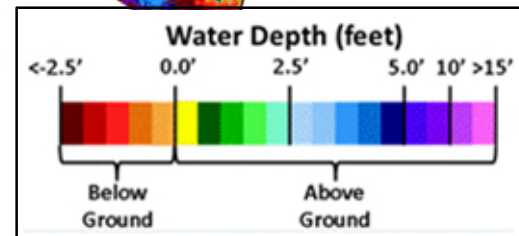
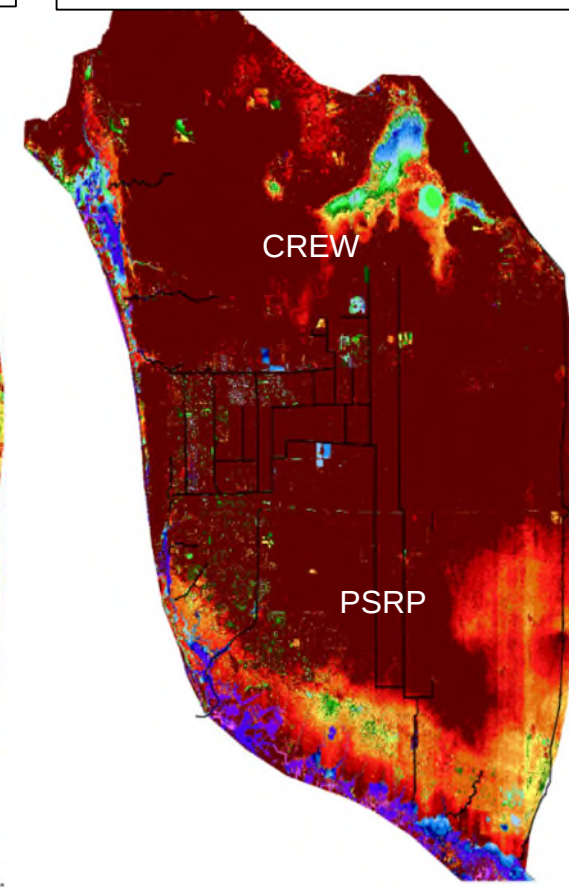
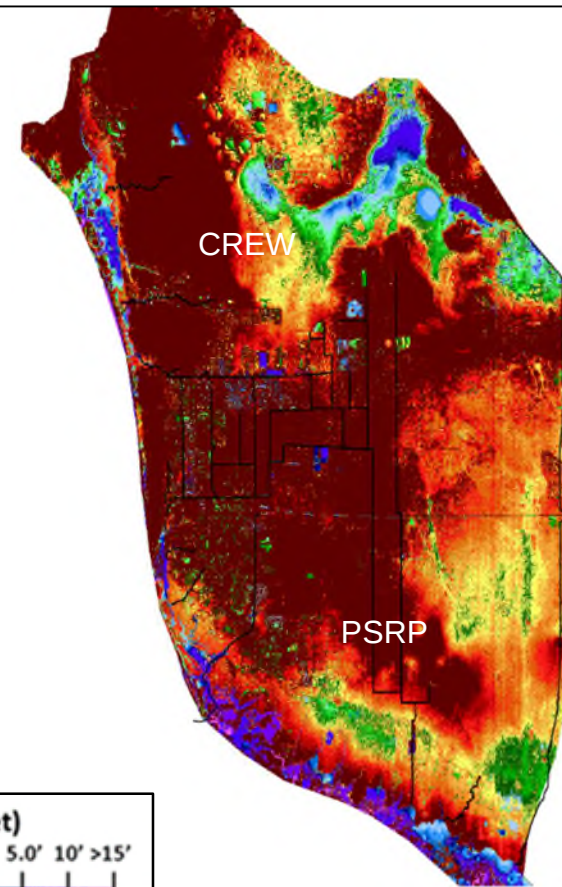
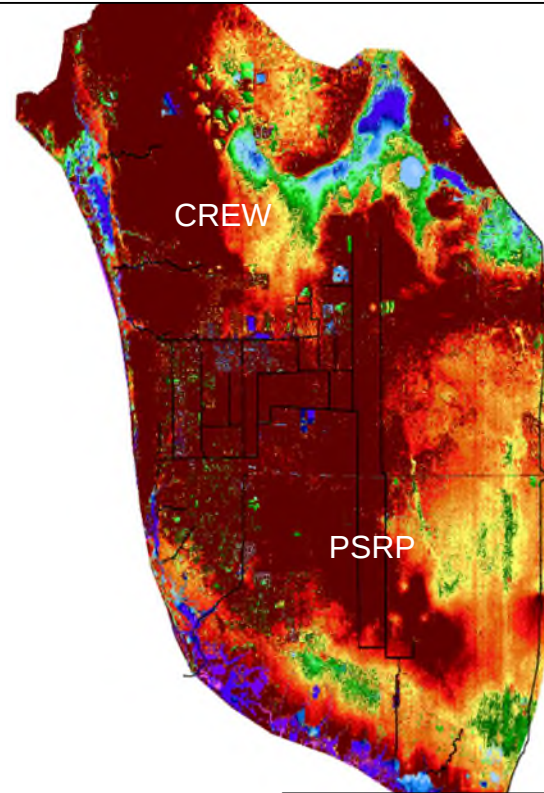
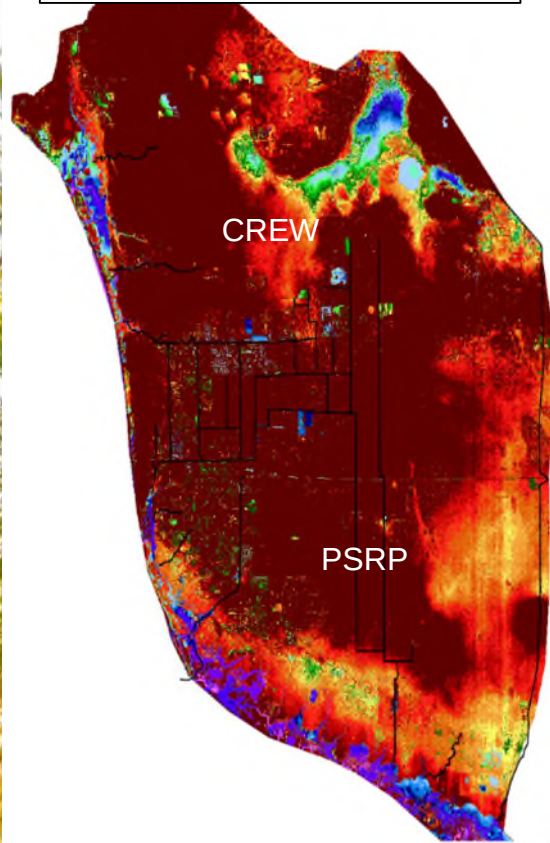
BCB Water Depth Maps

Current: 2/21/2021

2 Months Ago: 12/21/2020

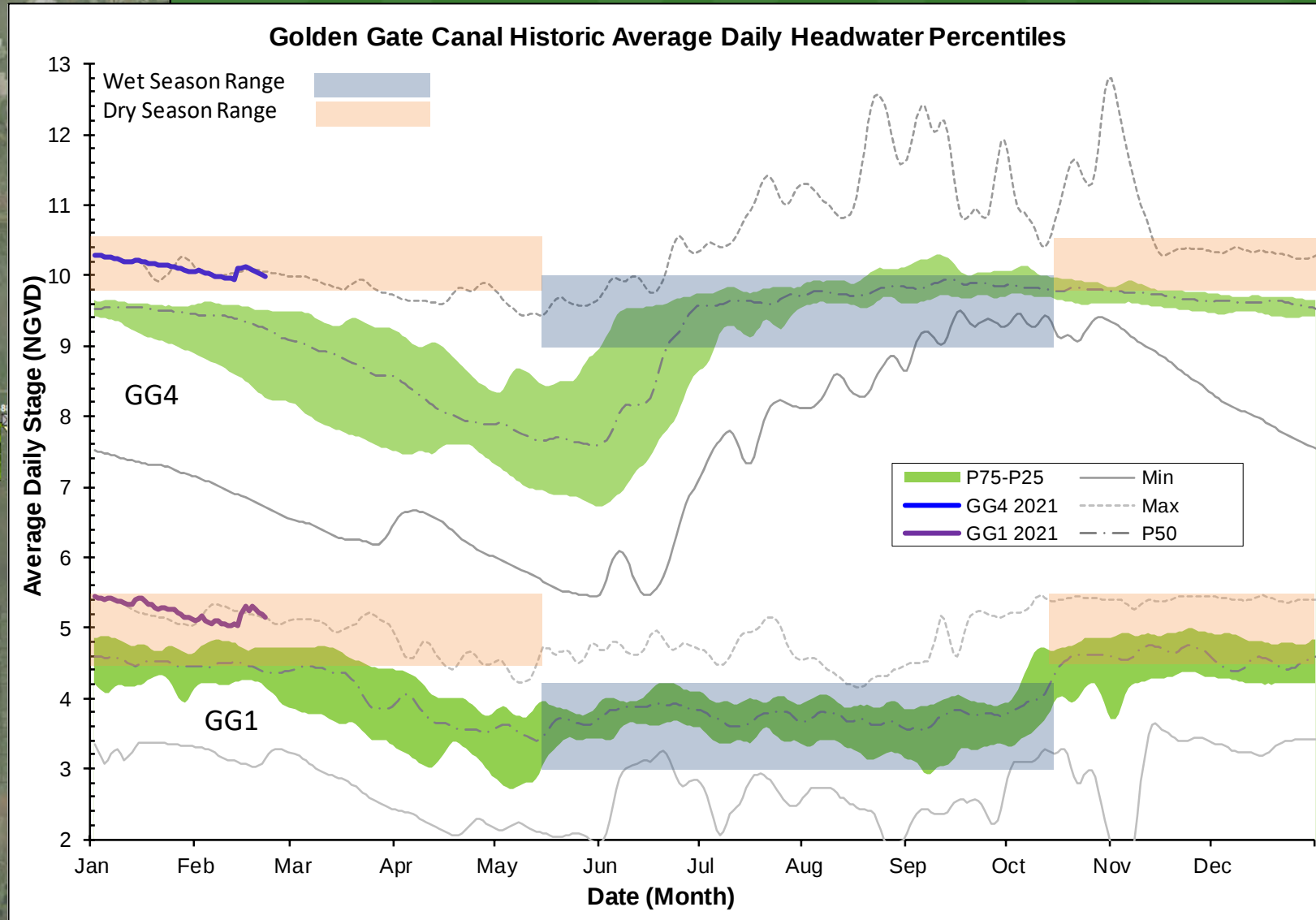
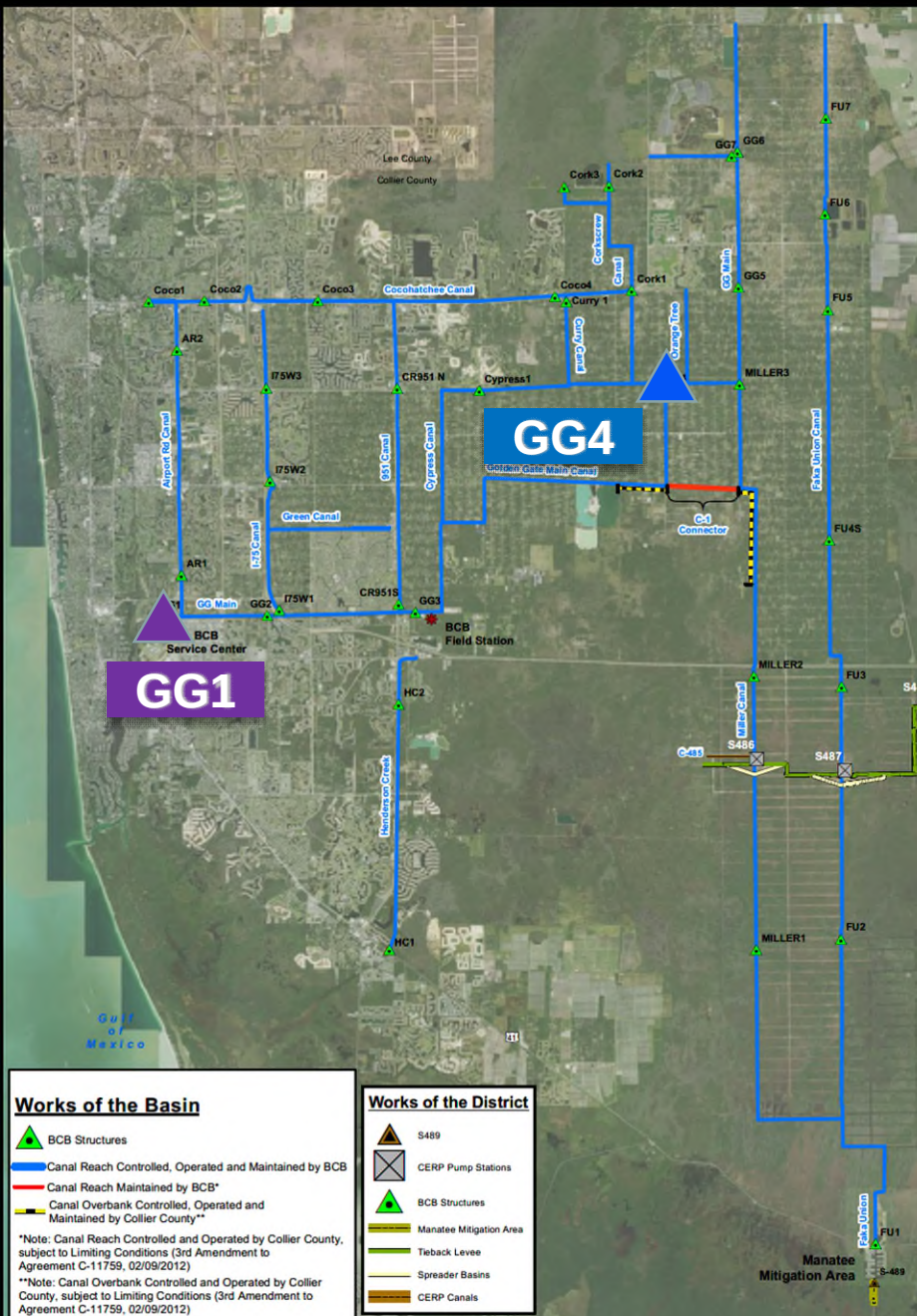
3 Months Ago: 11/21/2020

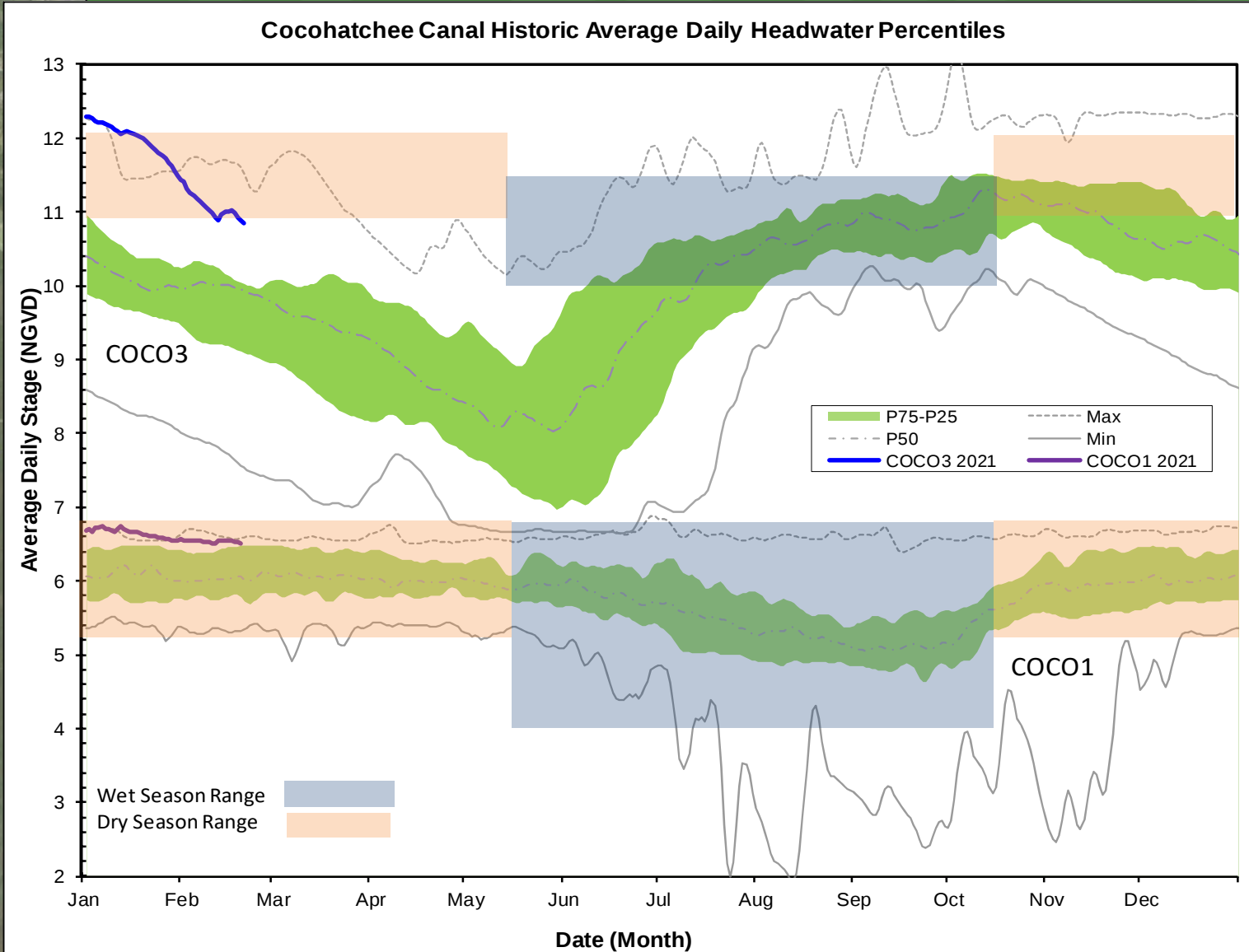
1 Year Ago: 2/21/2020

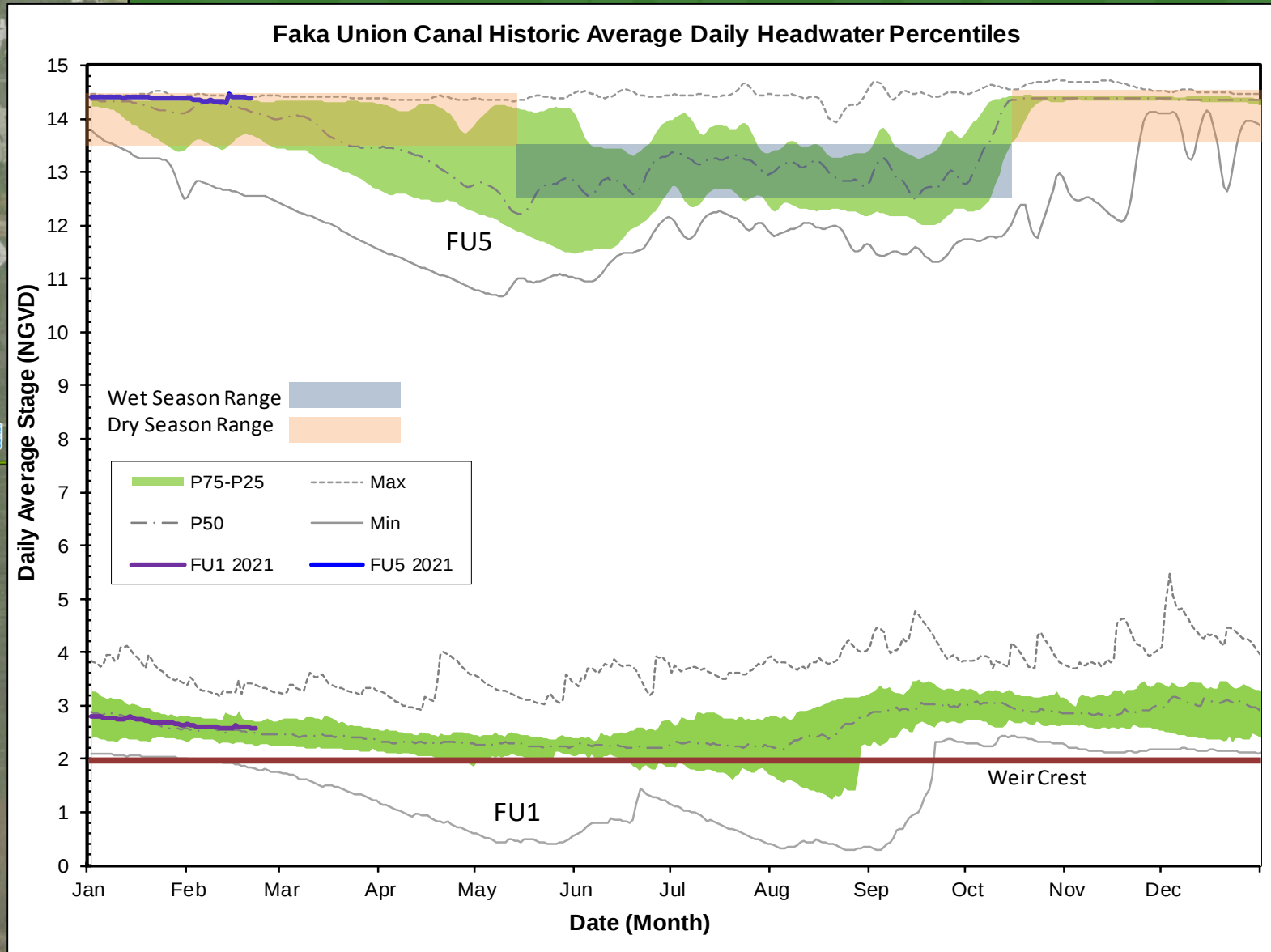


SOURCE: WATER DEPTH ASSESSMENT TOOL (SFWDAT)
ALL WDAT PRODUCTS BASED ON PROVISIONAL DATA

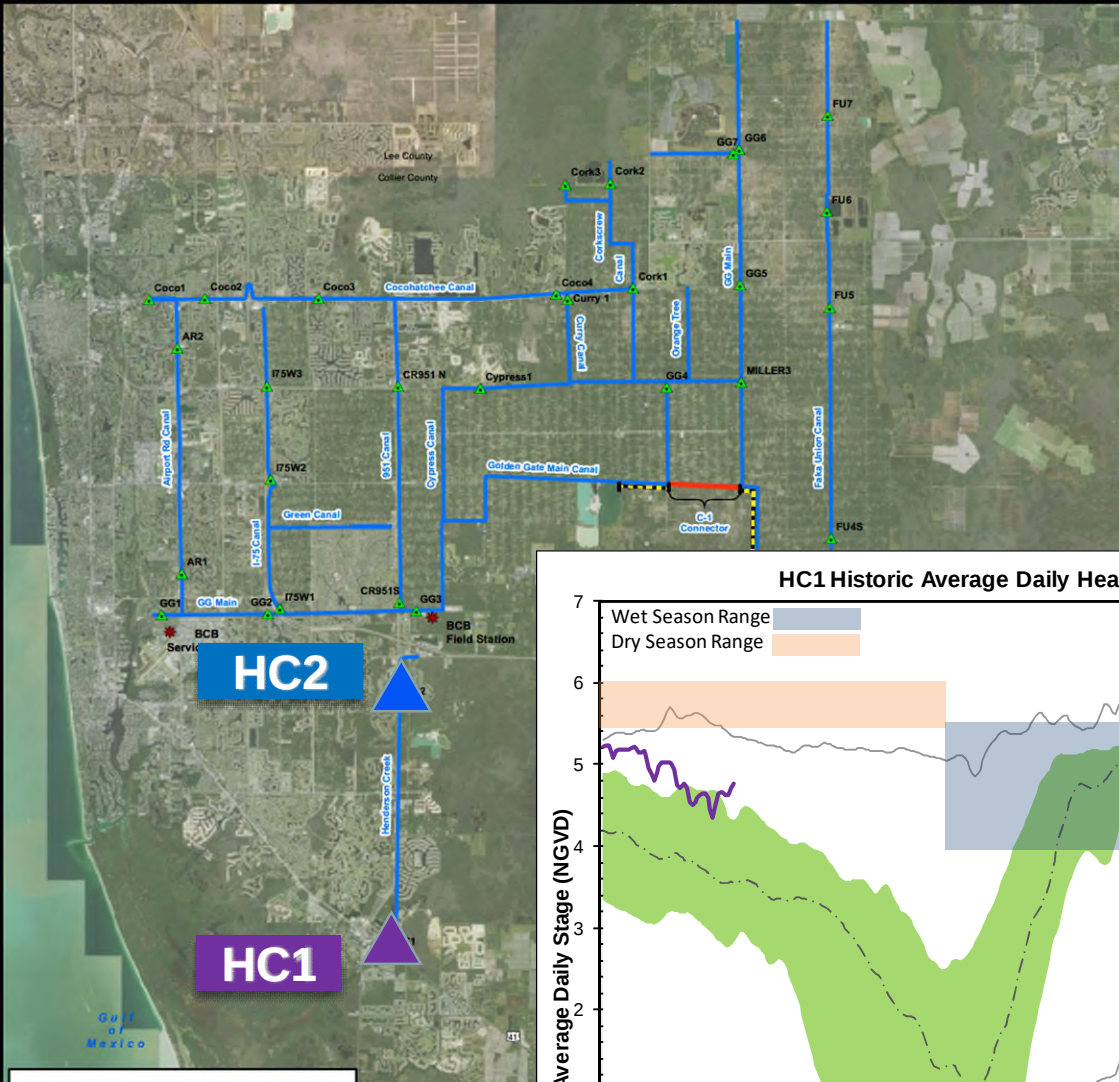
BCB Golden Gate Canal







BCB Henderson Creek Canal



Works of the Basin

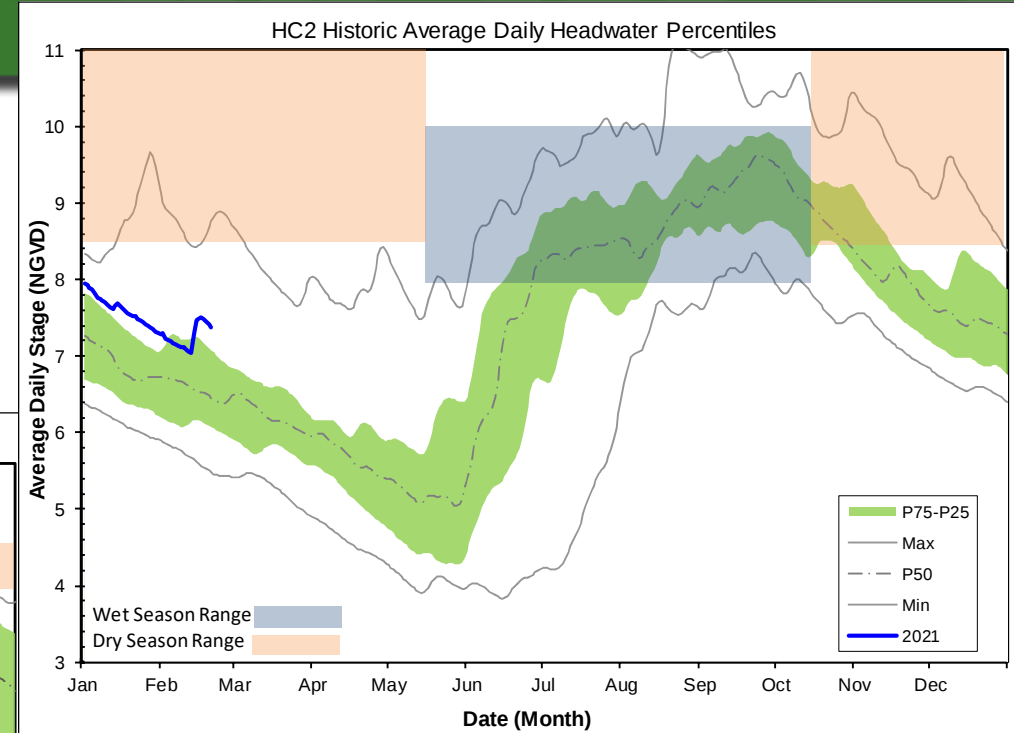
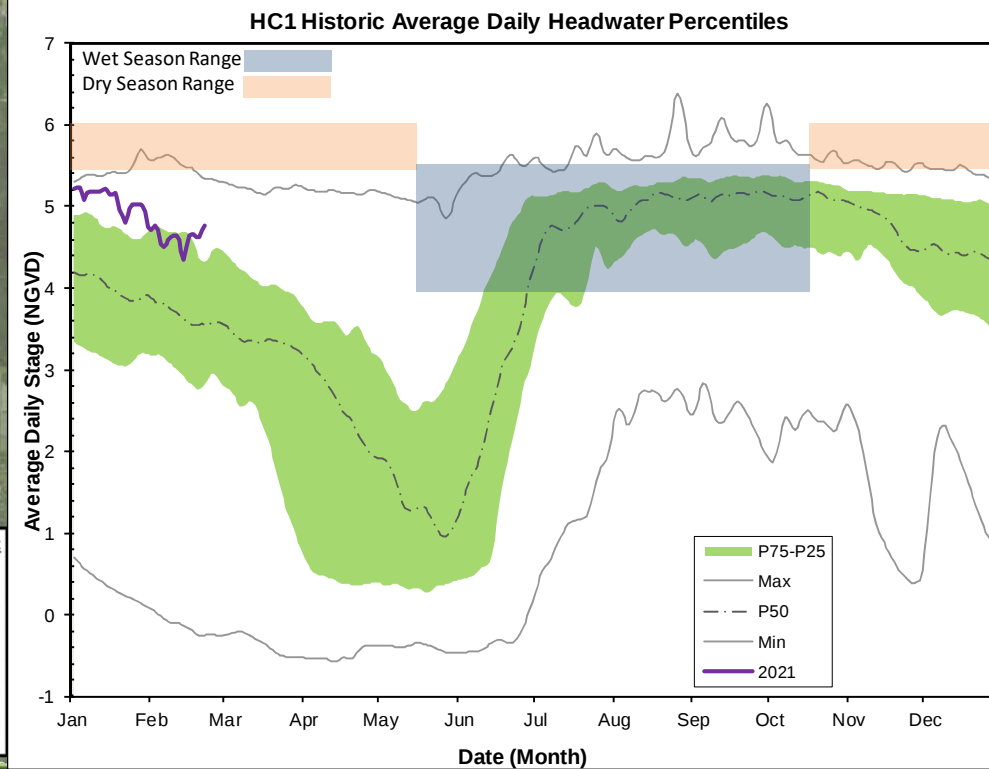
- BCB Structures
- Canal Reach Controlled, Operated and Maintained by BCB
- Canal Reach Maintained by BCB*
- Canal Overbank Controlled, Operated and Maintained by Collier County**

*Note: Canal Reach Controlled and Operated by Collier County, subject to Limiting Conditions (3rd Amendment to Agreement C-11759, 02/09/2012)

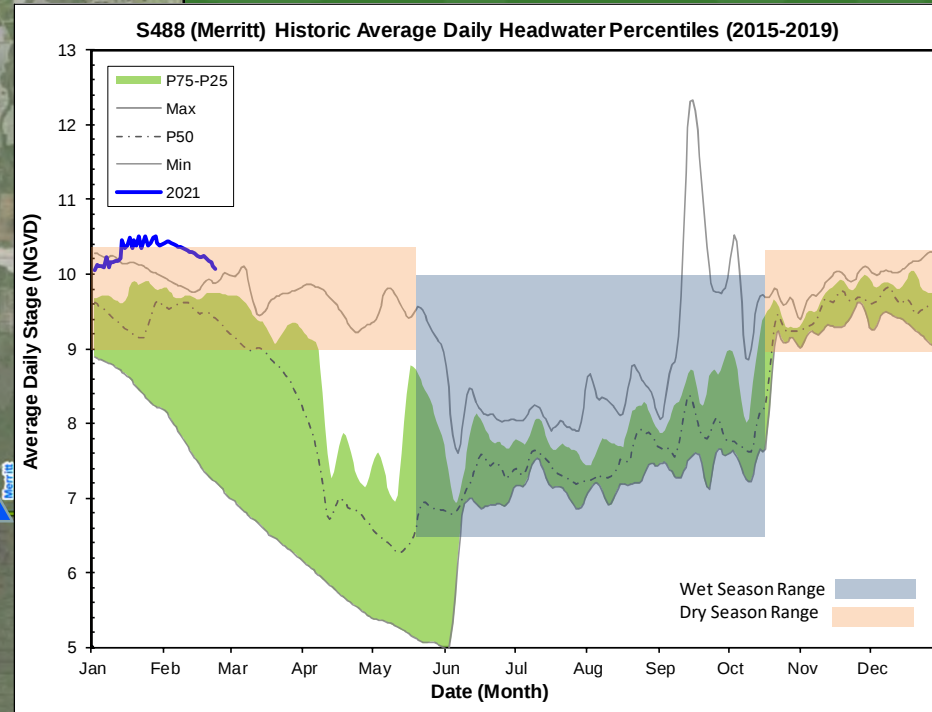
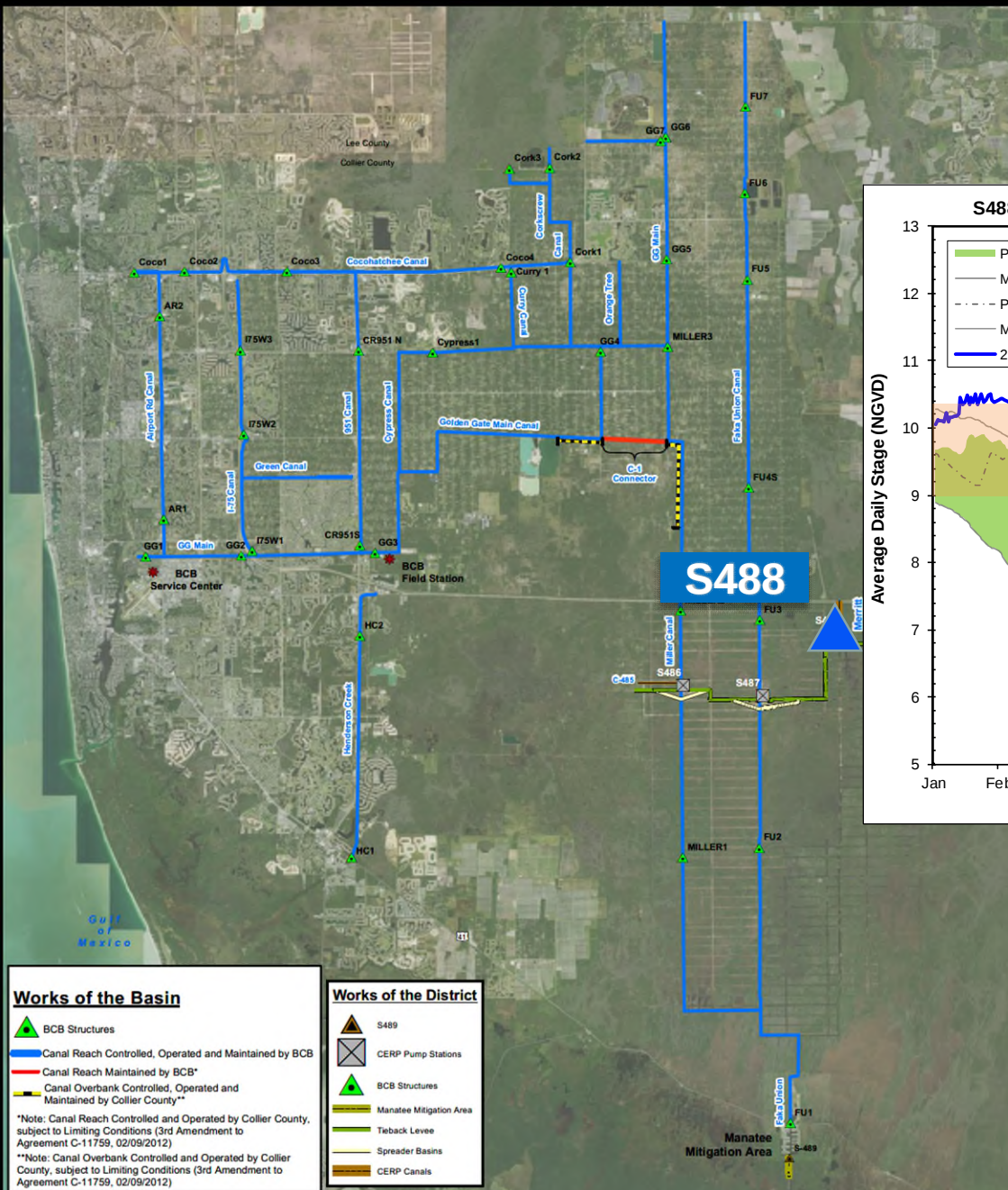
**Note: Canal Overbank Controlled and Operated by Collier County, subject to Limiting Conditions (3rd Amendment to Agreement C-11759, 02/09/2012)

Works of the District

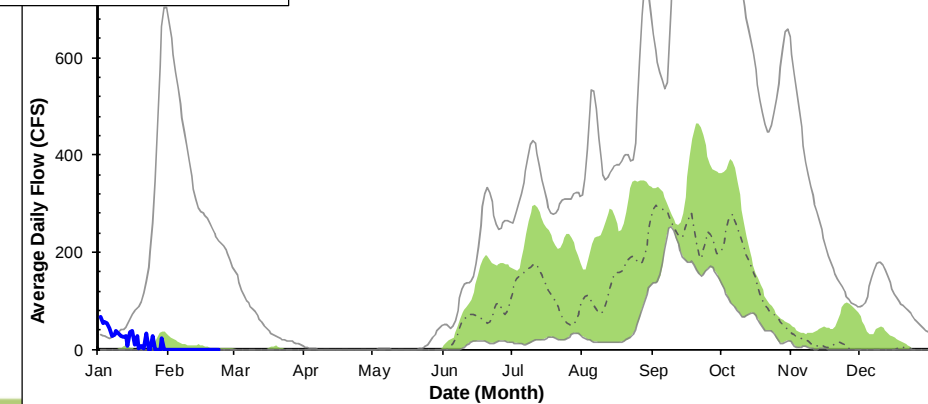
- S489
- CERP Pump Stations
- BCB Structures
- Manatee Mitigation Area
- Tieback Levee
- Spreader Basins
- CERP Canals



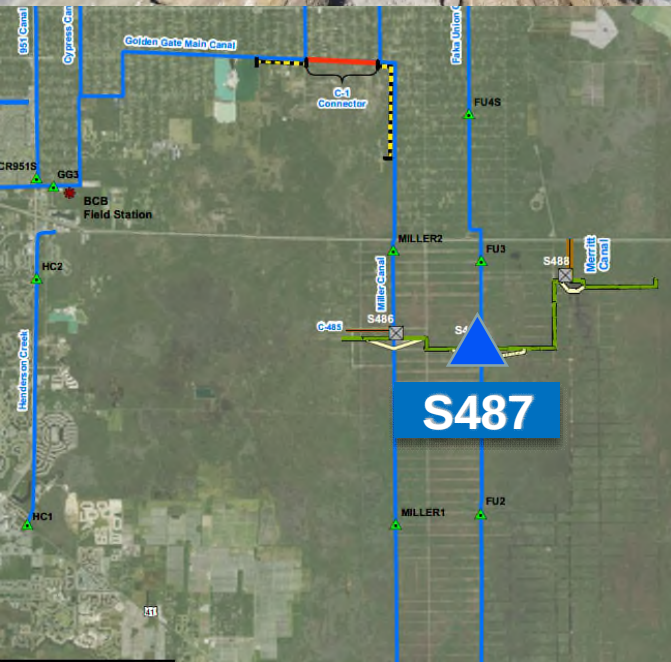
Picayune Strand Restoration Project Operations - Merritt



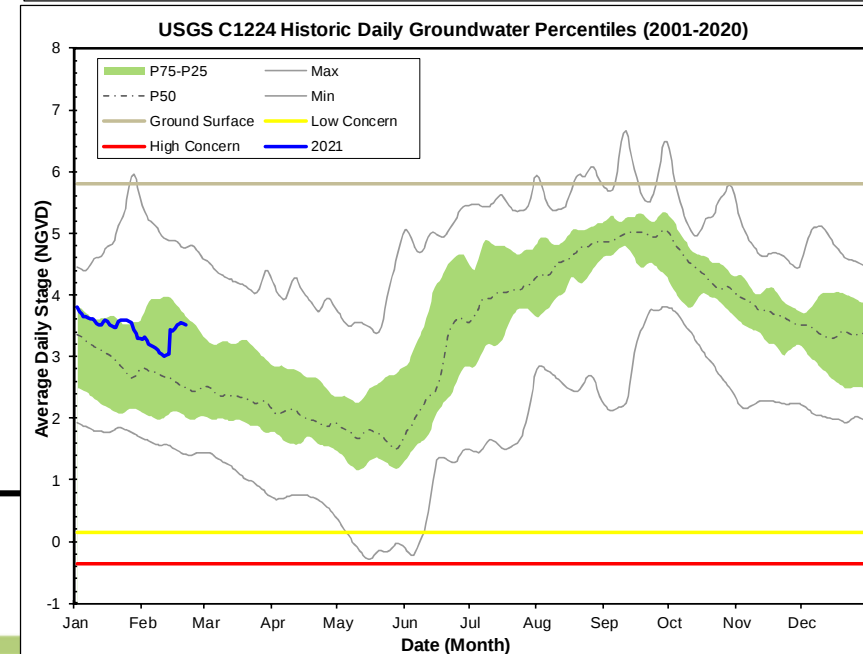
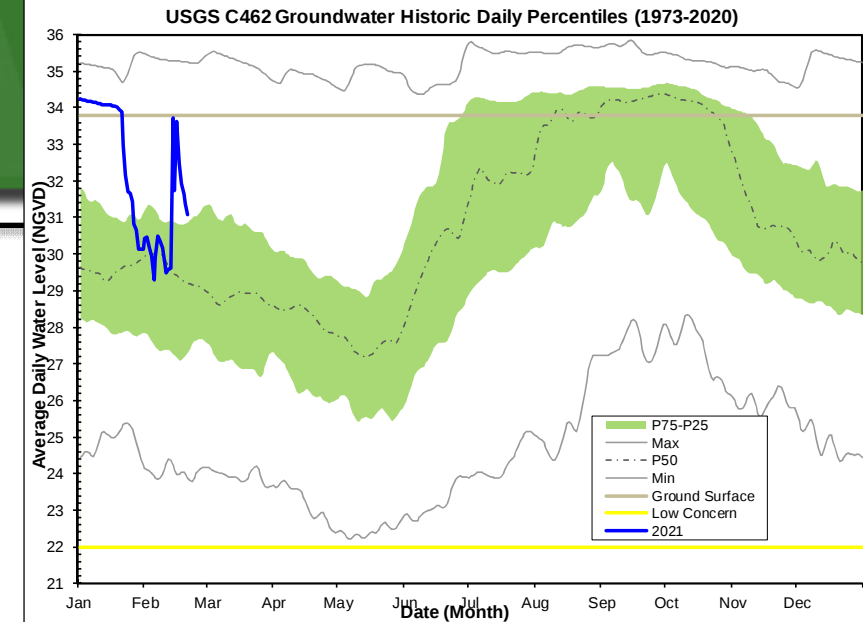
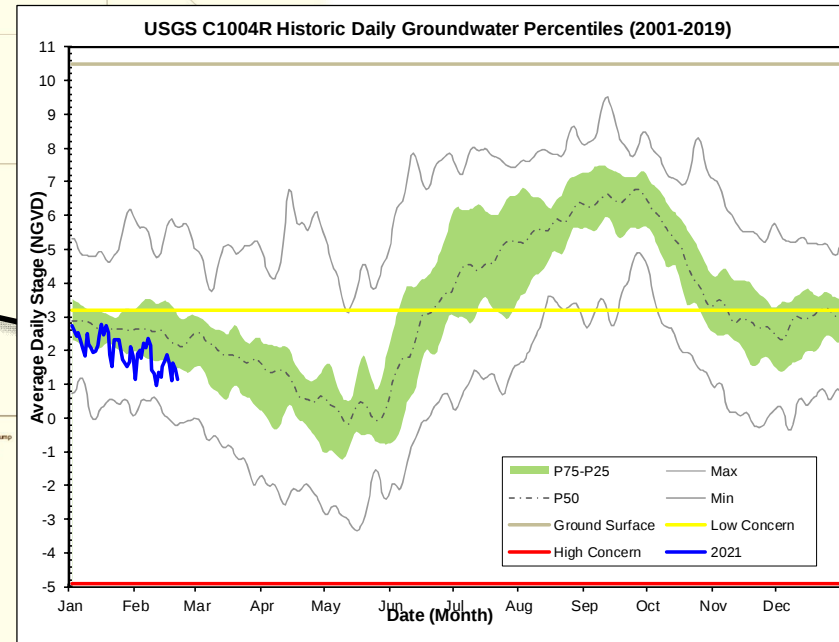
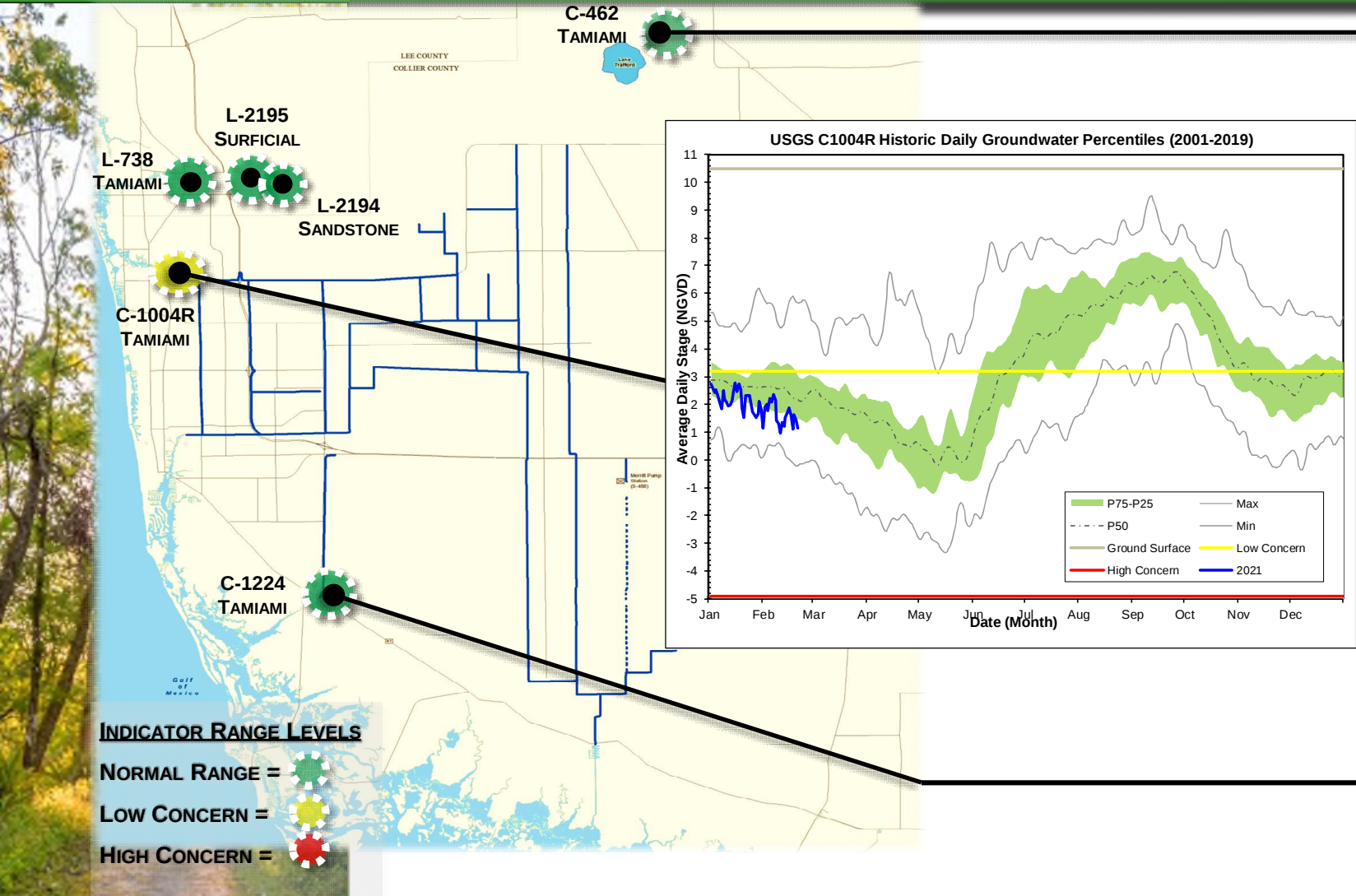
S488 (Merritt) Historic Average Daily Flow Percentiles (2015-2019)



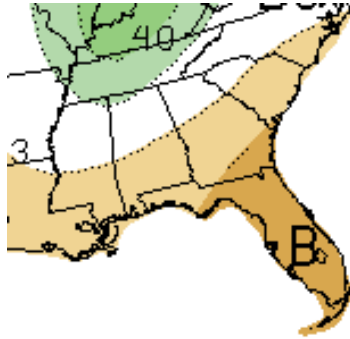
Picayune Strand Restoration Project Operations - Faka Union



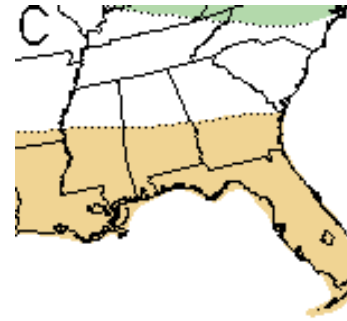
Groundwater Level Trends



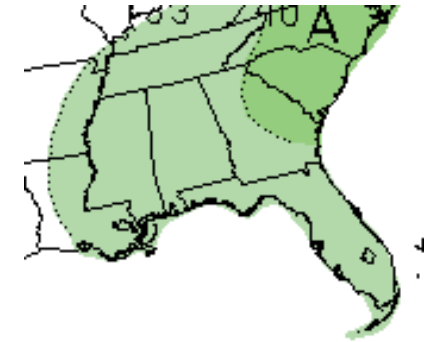
Long-Range Precipitation Outlook



March 2021

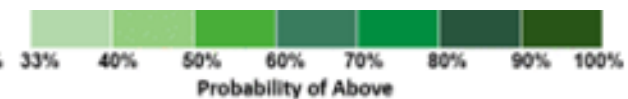
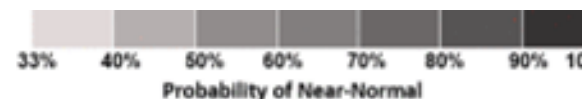
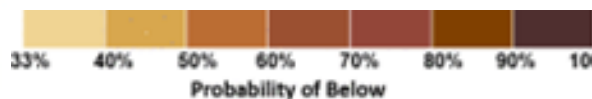


Apr. 2021 – Jun. 2021



Jul. 2021 – Sept. 2021

- The most recent CPC precipitation outlook for March 2021 calls for above average chance for below-normal average rainfall for south Florida.
- The CPC precipitation outlook for April - June calls for above average chance for below-normal rainfall.
- The CPC precipitation outlook for July - September calls for above average chance for above-normal rainfall.



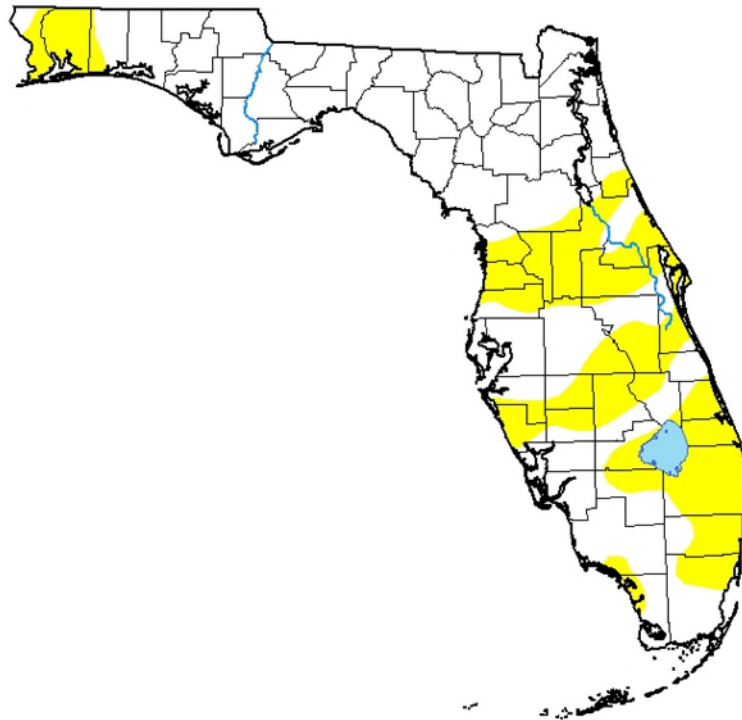
Drought Outlook

U.S. Seasonal Drought Outlook Drought Tendency During the Valid Period

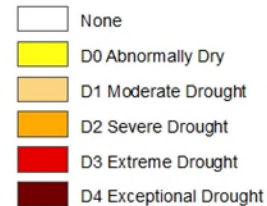
Valid for February 18 - May 31, 2021
Released February 18

U.S. Drought Monitor Florida

February 16, 2021
(Released Thursday, Feb. 18, 2021)
Valid 7 a.m. EST



Intensity:



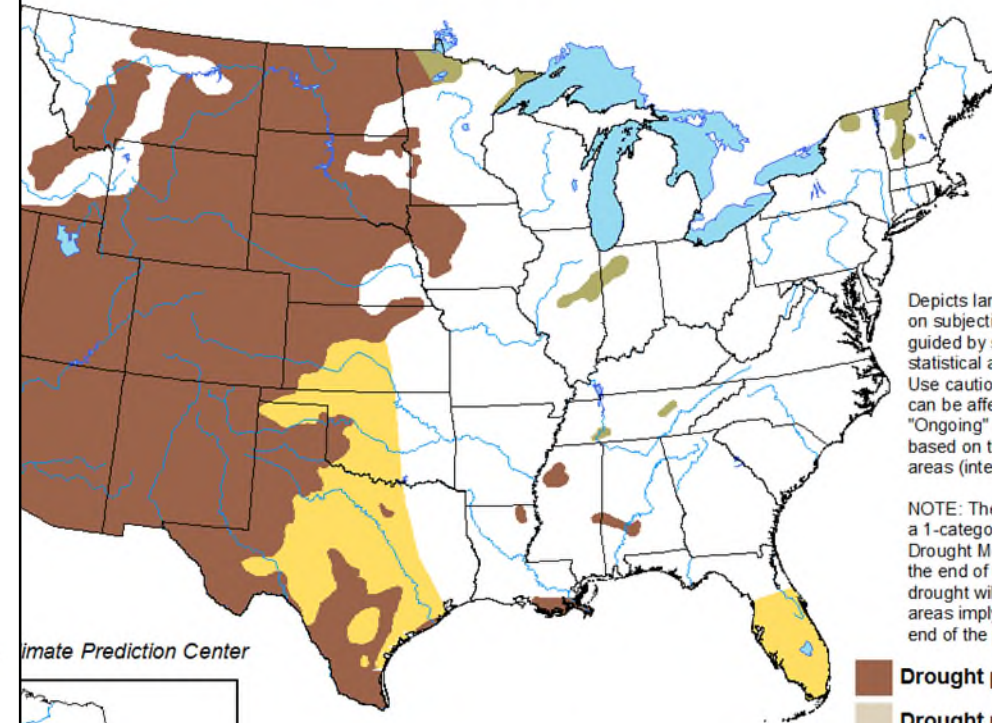
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:

David Miskus
NOAA/NWS/NCEP/CPC



droughtmonitor.unl.edu



Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

- Drought persists
- Drought remains but improves
- Drought removal likely
- Drought development likely



<http://go.usa.gov/3eZ73>

BCB Water Conditions Report

QUESTIONS ?



Public Comment on Item #13

If you're participating via Zoom –
use the Raise Hand feature

If you're participating via Phone –
*9 Raises Hand
*6 Mutes/Unmutes

3:00