

BIG CYPRESS BASIN BOARD MEETING

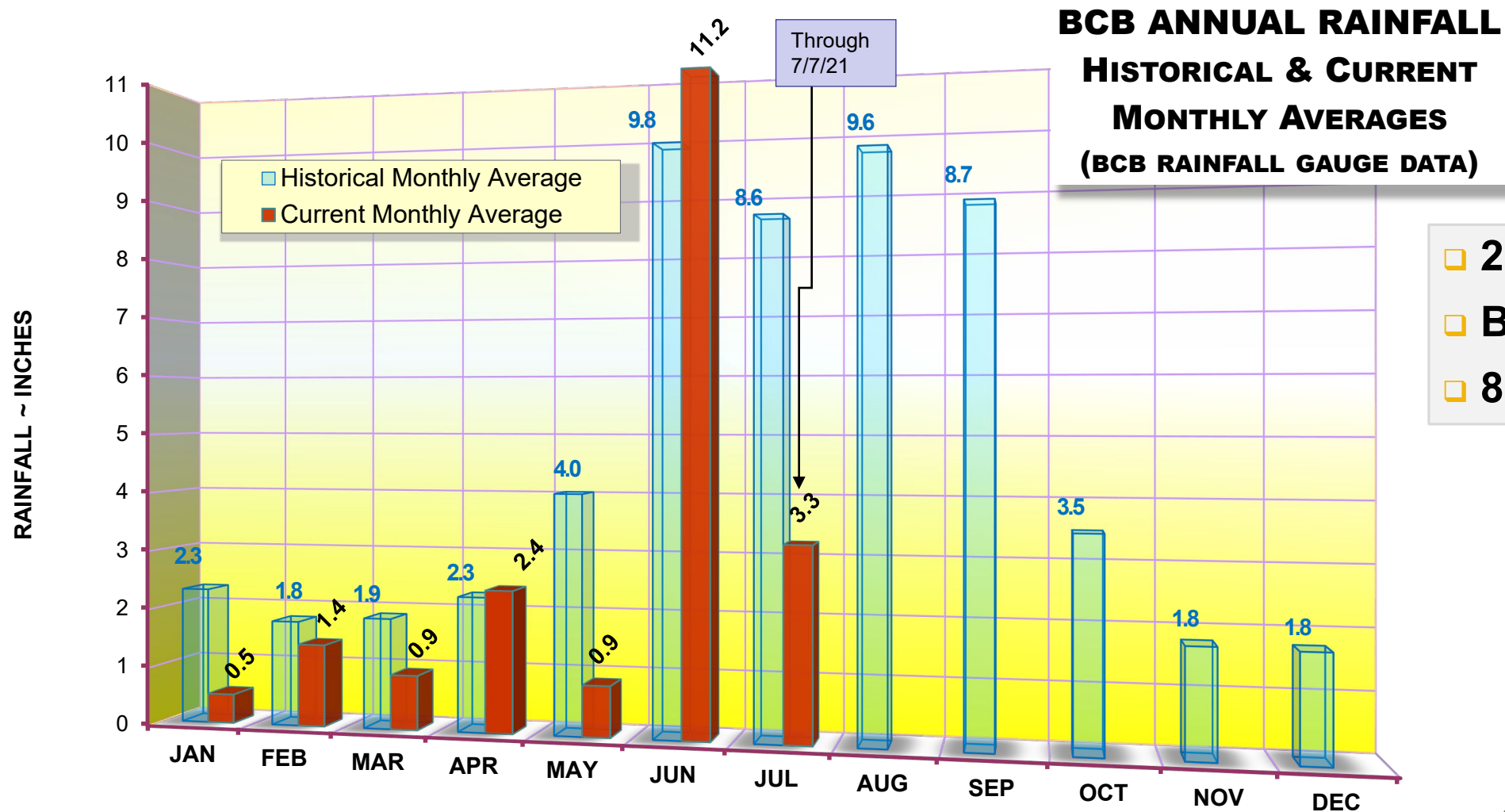
BCB WATER CONDITIONS REPORT
July 9, 2021



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

Hydrologic Conditions ~ BCB Gauge Rainfall

2021 MONTHLY SUMMARY

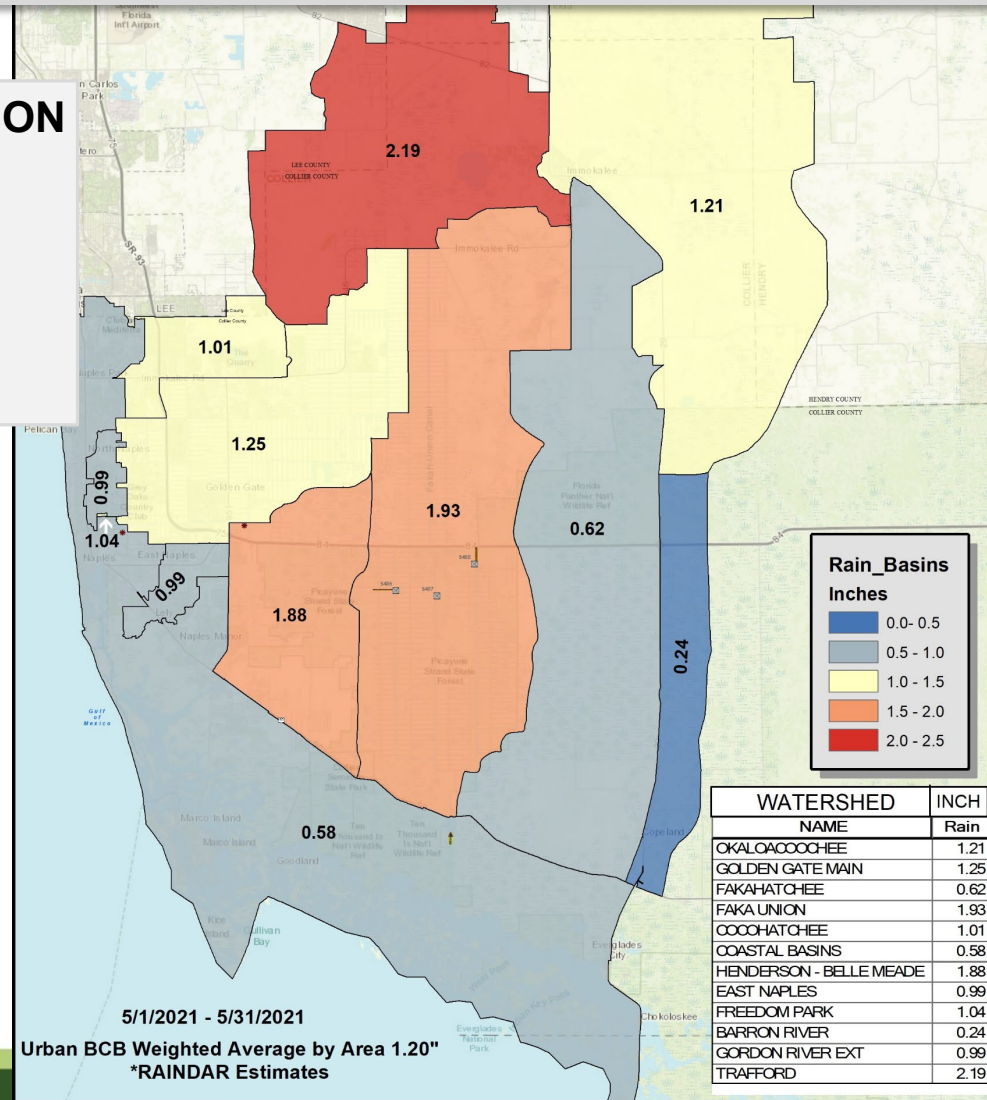


- 2021 YTD TOTAL = 20.5 IN
- BASIN AVG TOTAL = 24.0 IN
- 85% OF NORMAL YTD

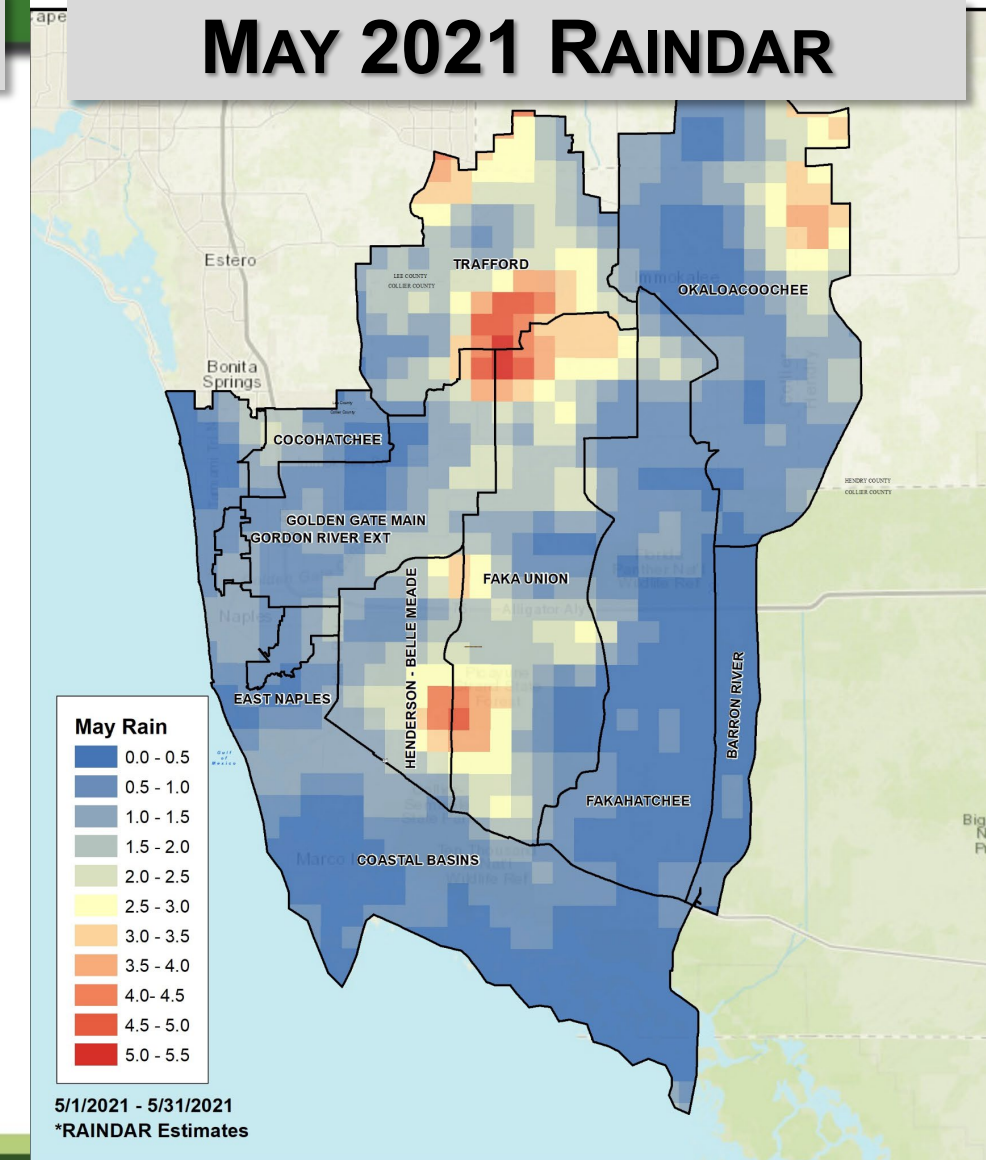
NOTE: COVERAGE FOR LOCALITIES
WITHIN BCB GAUGE NETWORK ONLY

Hydrologic Conditions ~ BCB Rainfall

MAY 2021 BY BASIN



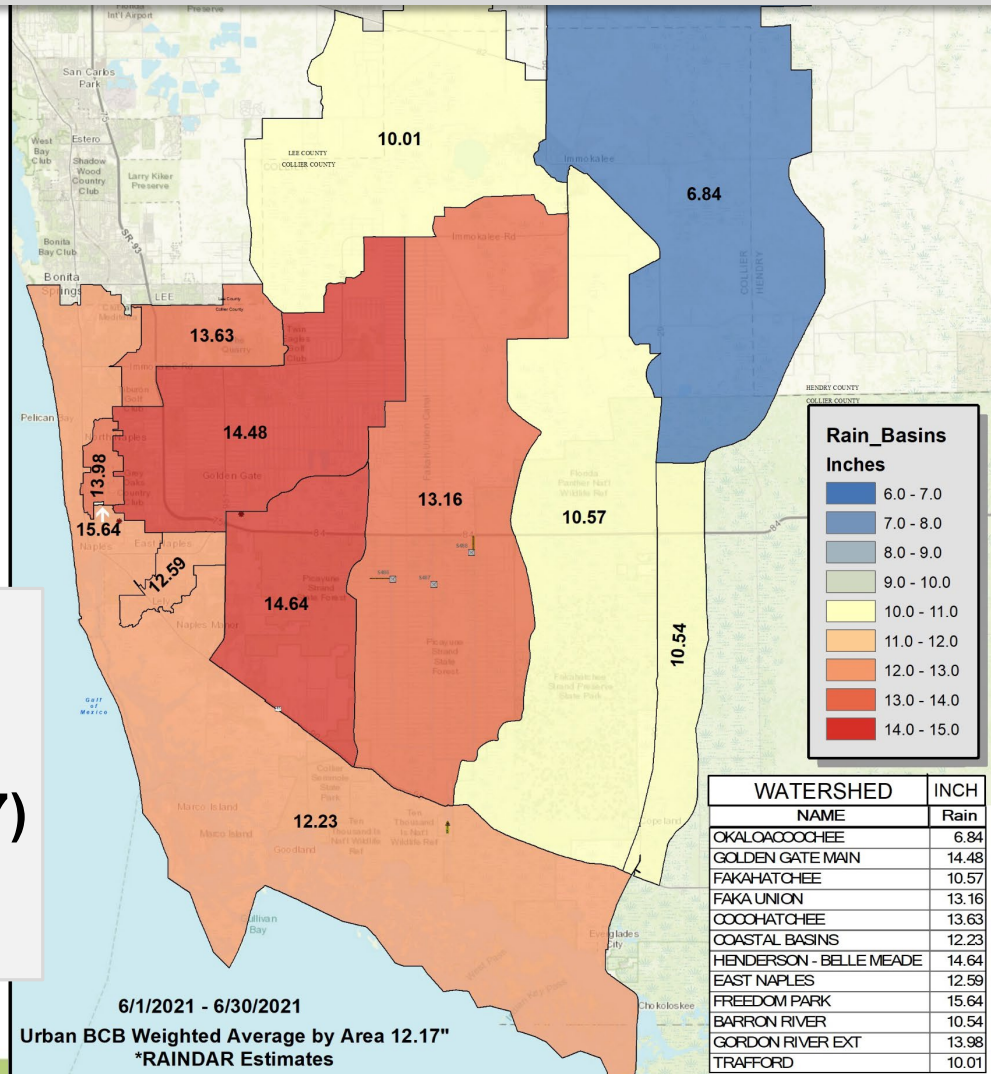
MAY 2021 RAINDAR



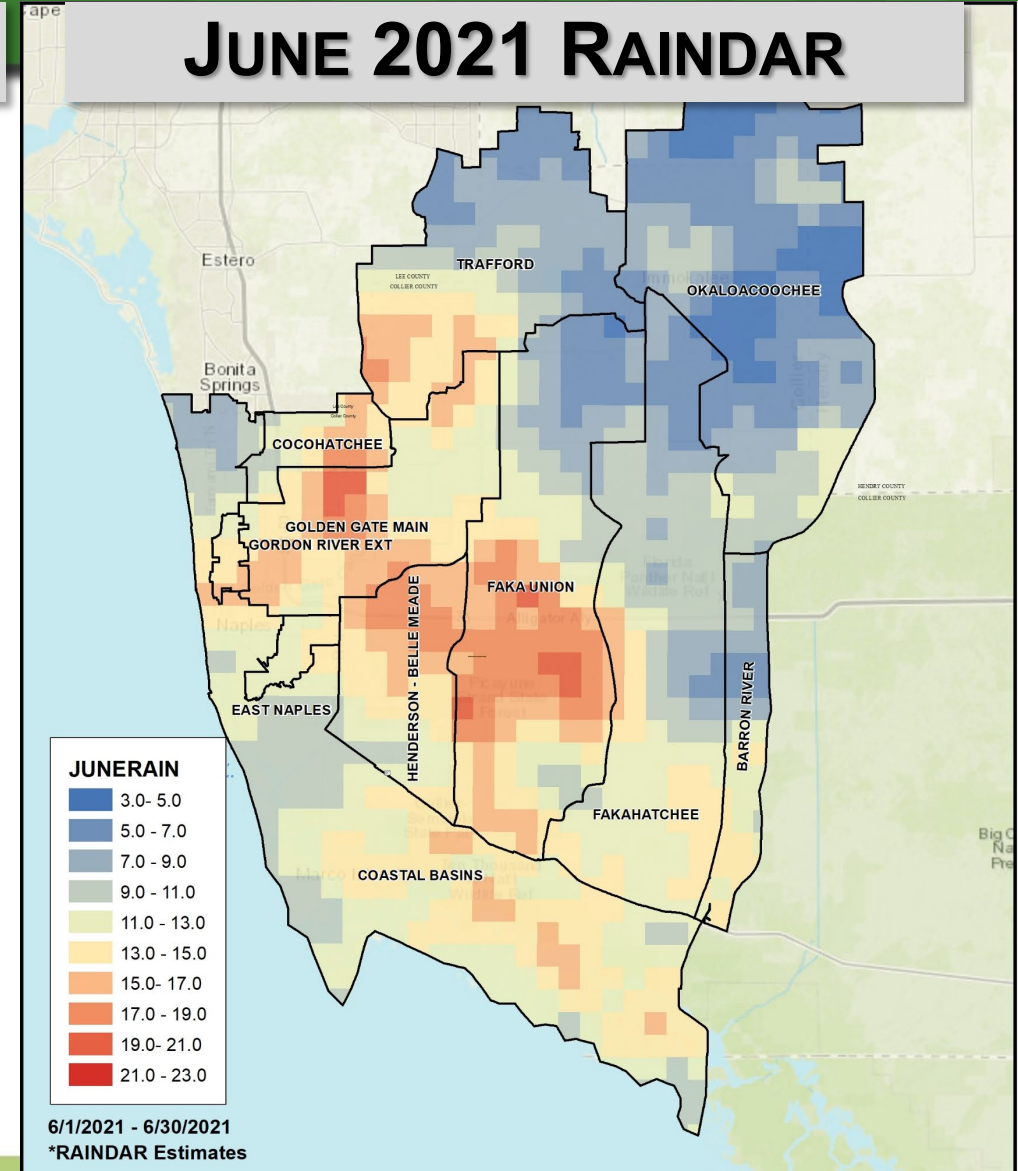
Presenter: Brad Jackson

Hydrologic Conditions ~ BCB Rainfall

JUNE 2021 BY BASIN

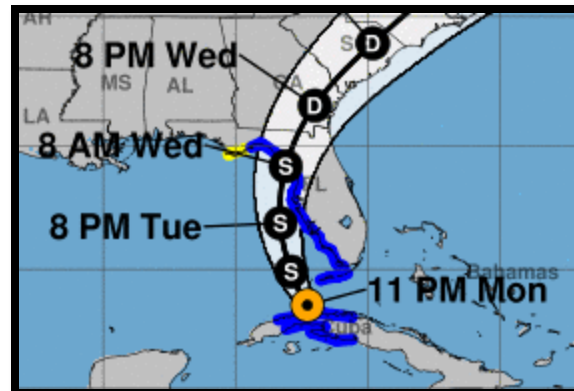
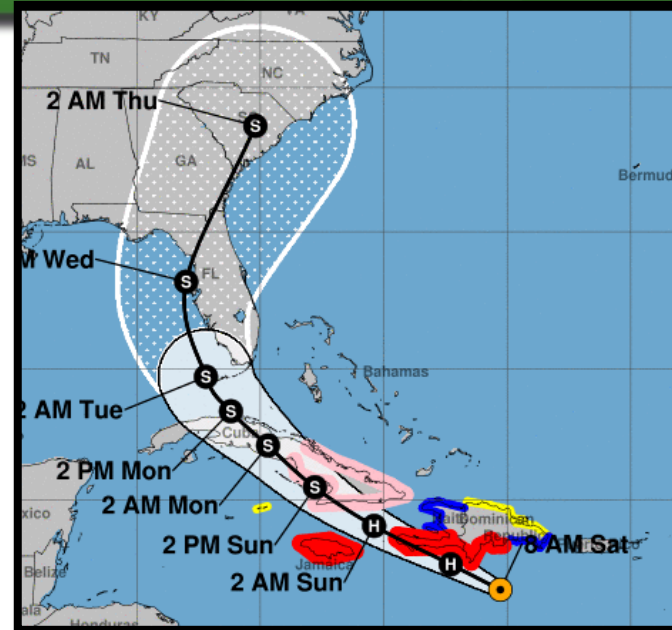


JUNE 2021 RAINDAR



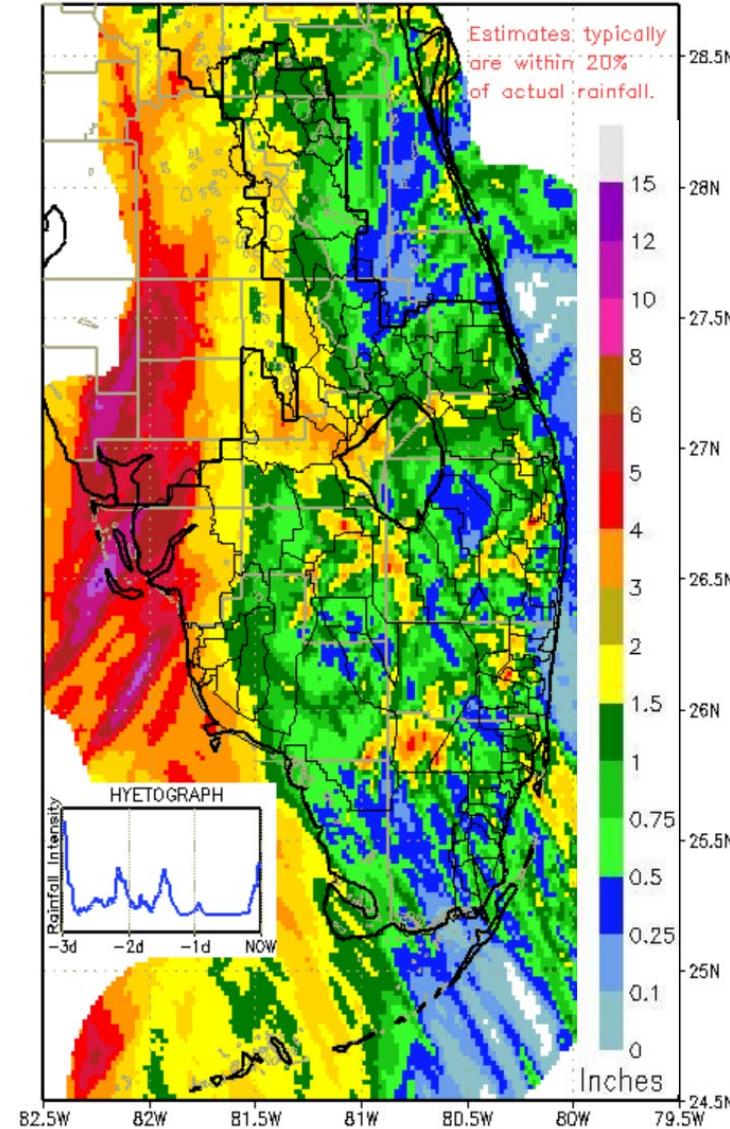
**HISTORICAL
COMPARISON**
2021: 11.2"
HIGH: 21.3" (2017)
LOW: 4.5" (1998)
AVG: 9.8"

Hurricane Elsa



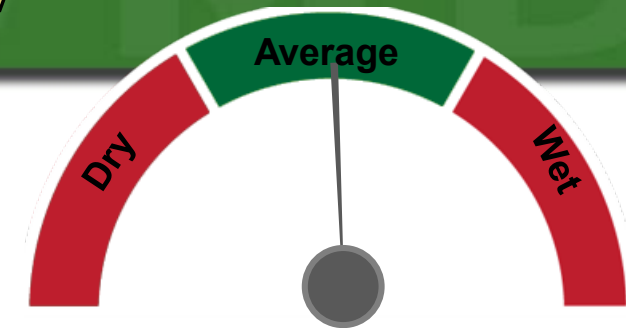
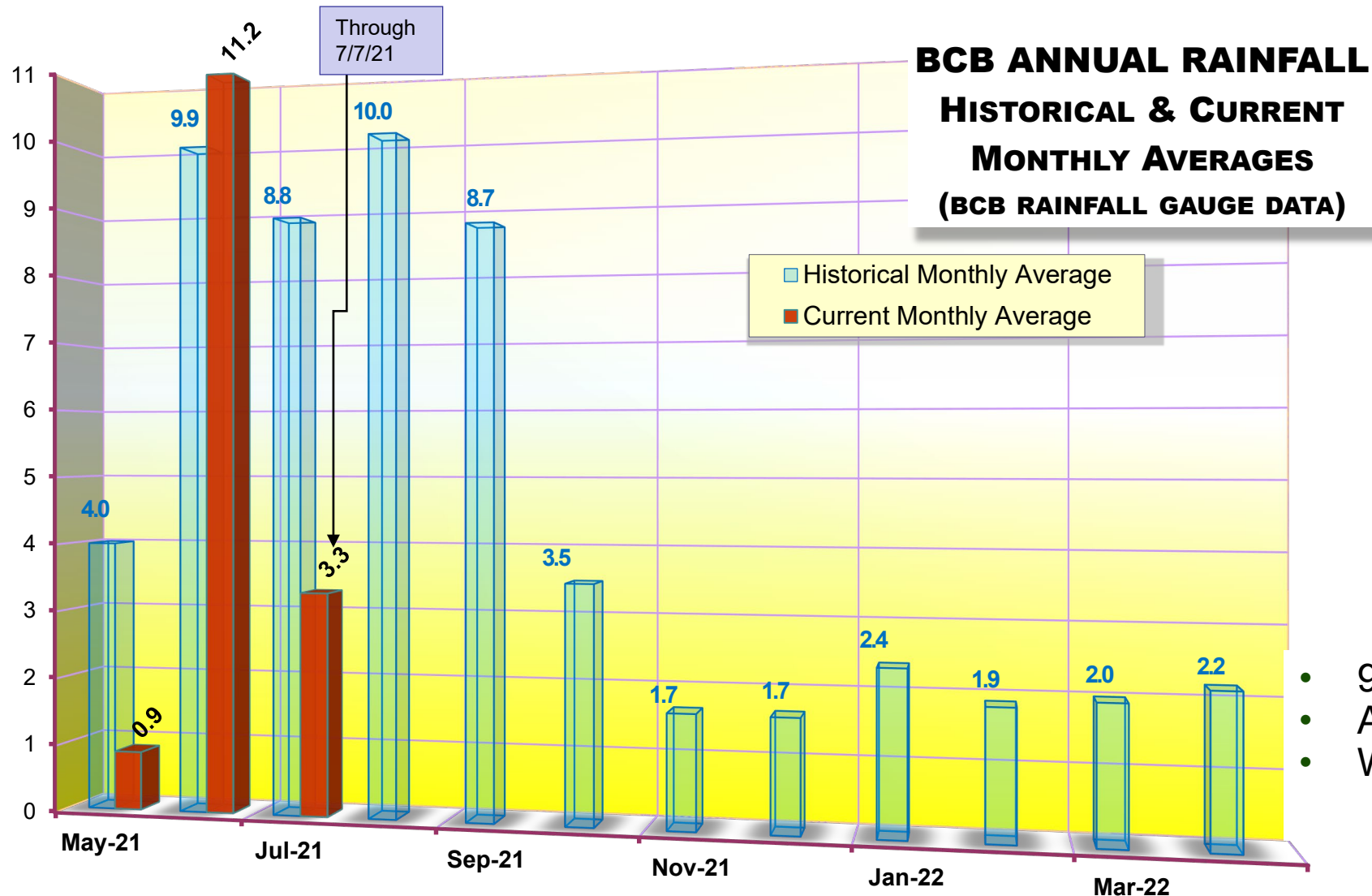
- 3-4" rainfall - Coastal Collier
- 5.2" - Marco Island
- 10"+ portions of Lee County

SFWMD PROVISIONAL RAINDAR 3-DAY RAINFALL ESTIMATES
FROM: 1700 EST, 07/05/2021 THROUGH: 1700 EST, 07/08/2021



DISTRICT-WIDE RAINFALL ESTIMATE: 1.425"

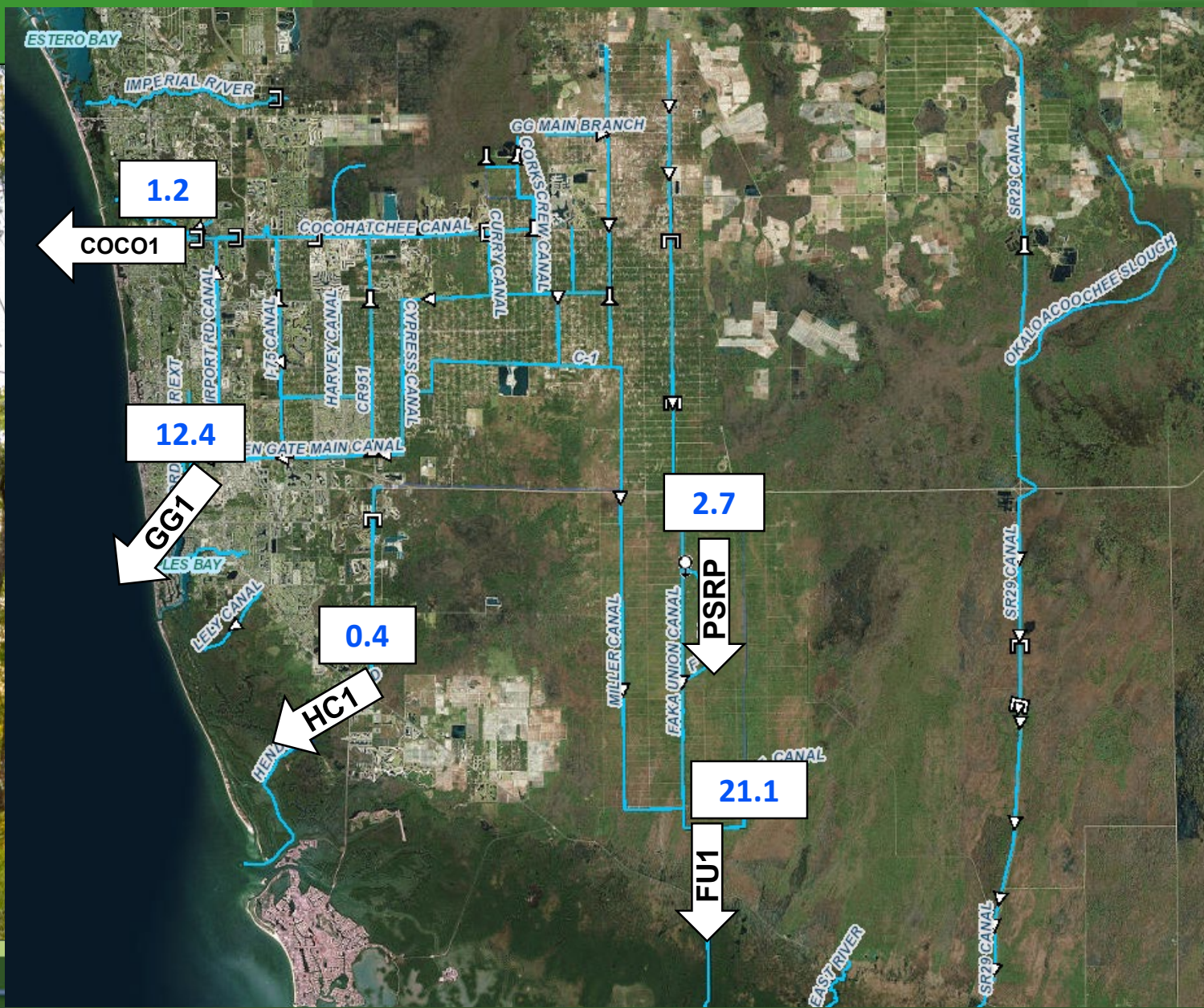
BCB Water Year Summary



Water Year Rainfall
May 1, 2021 –
July 7, 2021
BCB Total Rainfall: 15.4"

- 97% of average
- Approx. 0.5" deficit
- Wet Season Start - May 28, 2021

BCB - Outflow Volumes



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

Wet Season - Volume discharges
05/01/21 to 07/07/21

Initial Flood Control Discharges - Water
Year 2021-2022

COCO1 – Late June 2021

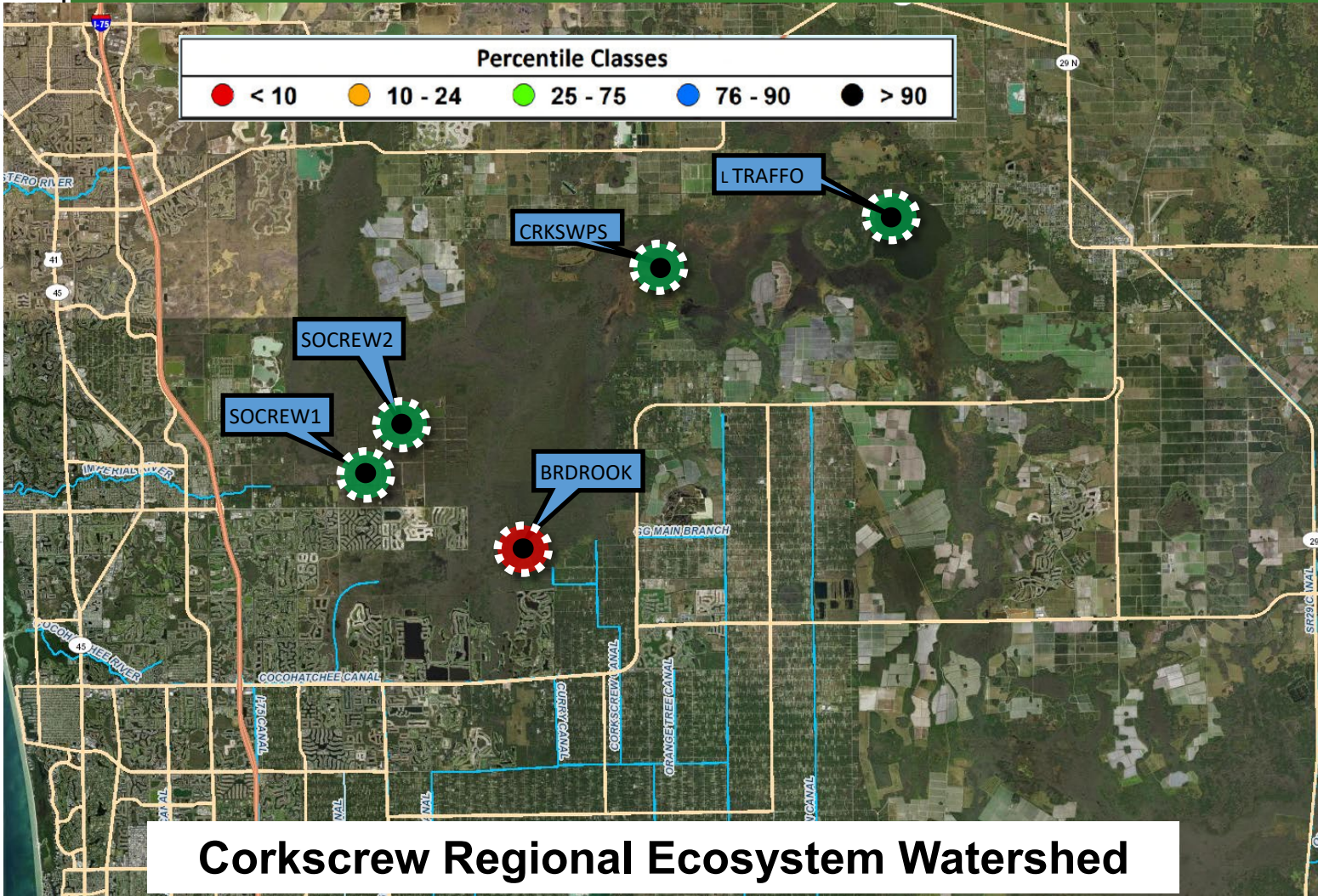
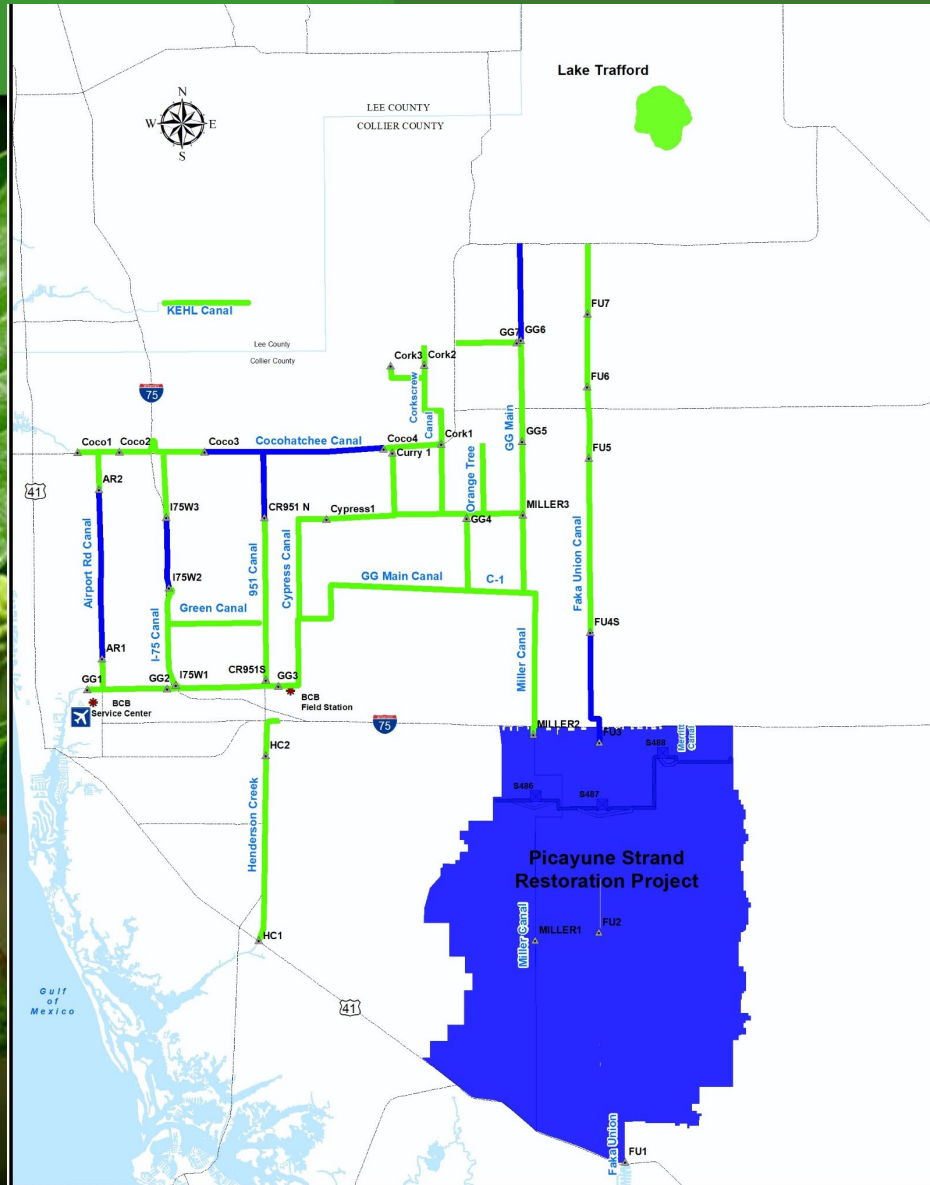
HC1 – Early July 2021

GG1– Late June 2021

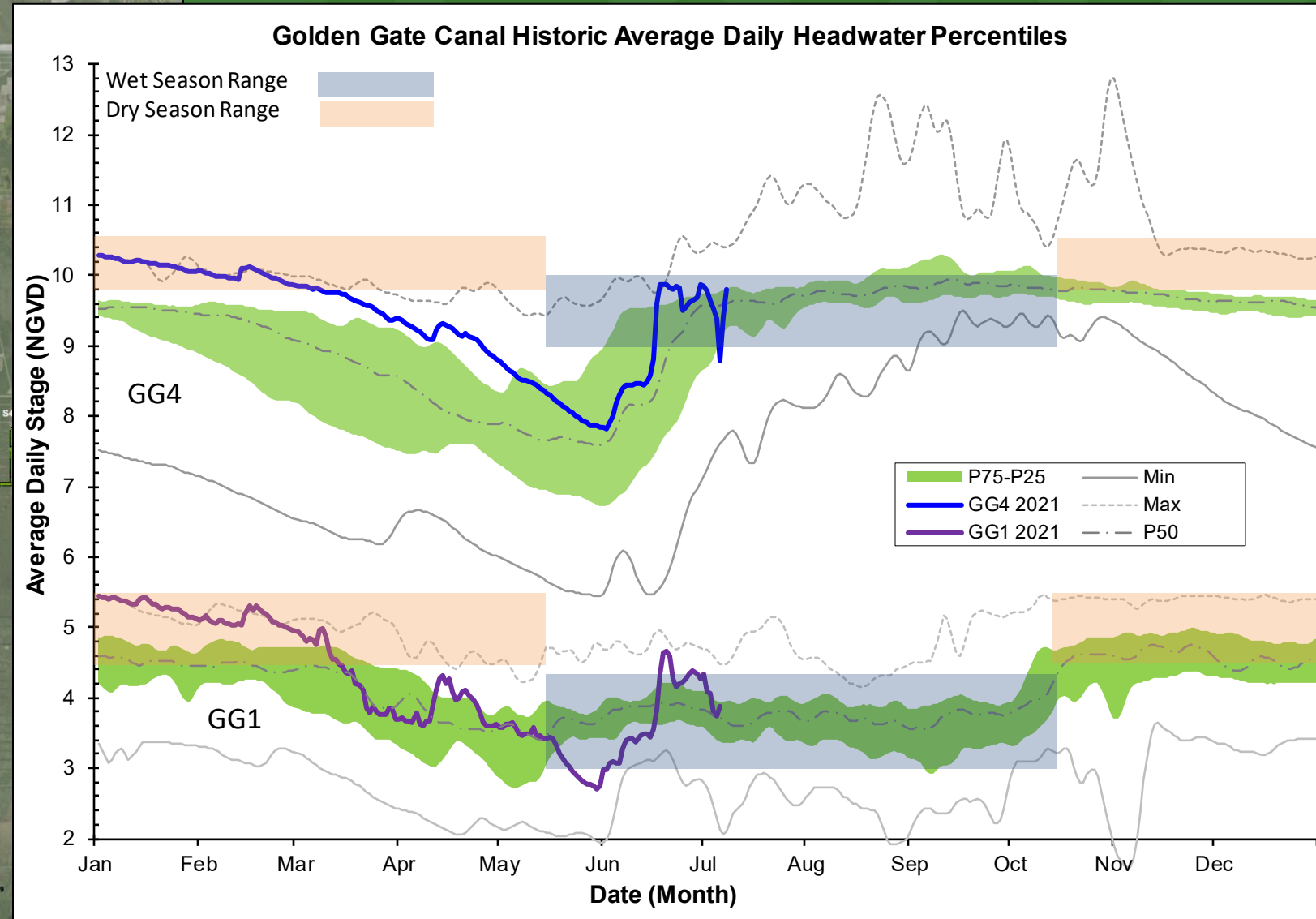
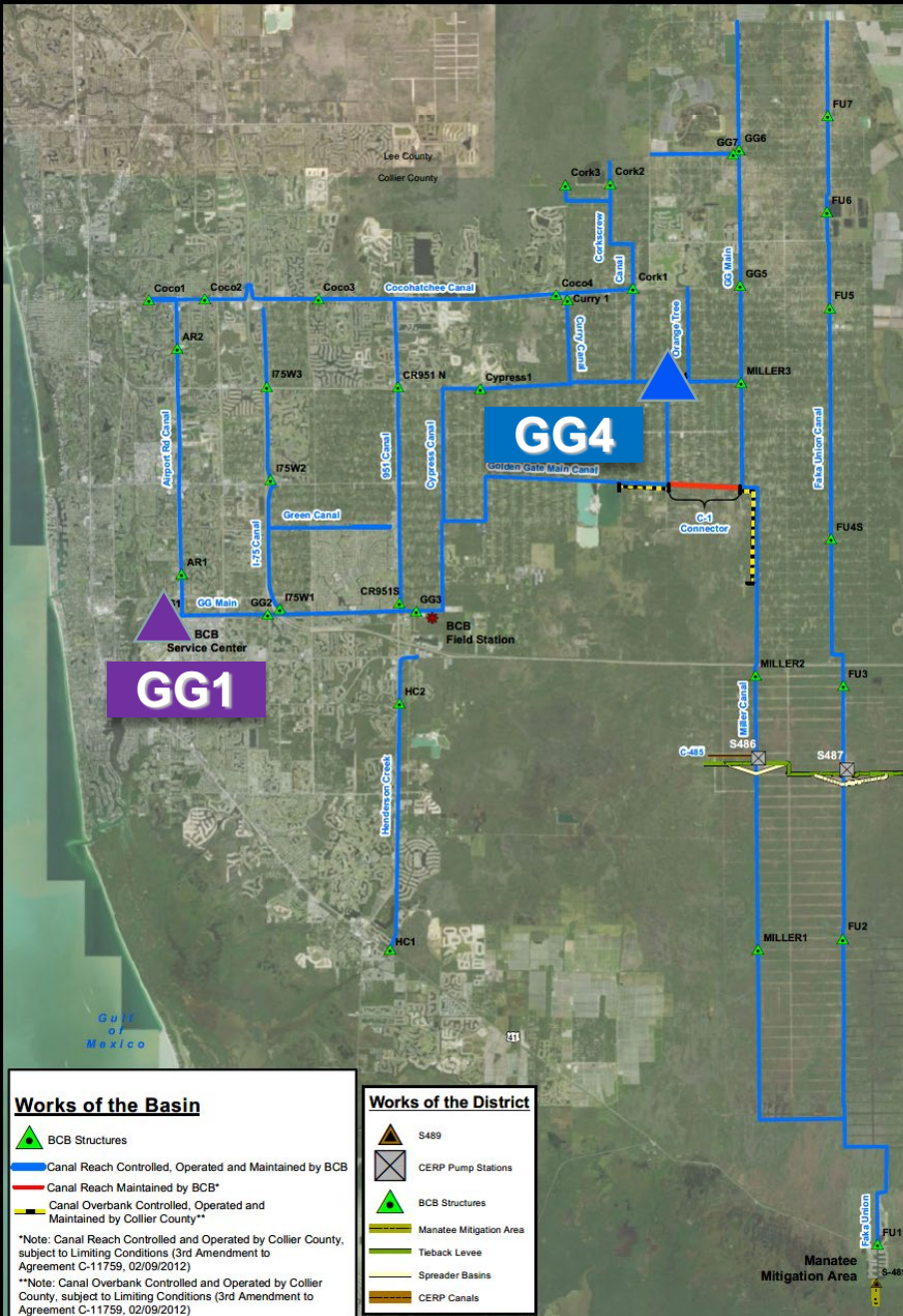
PSRP– Late June & Early July 2021

FU1– Early June 2021

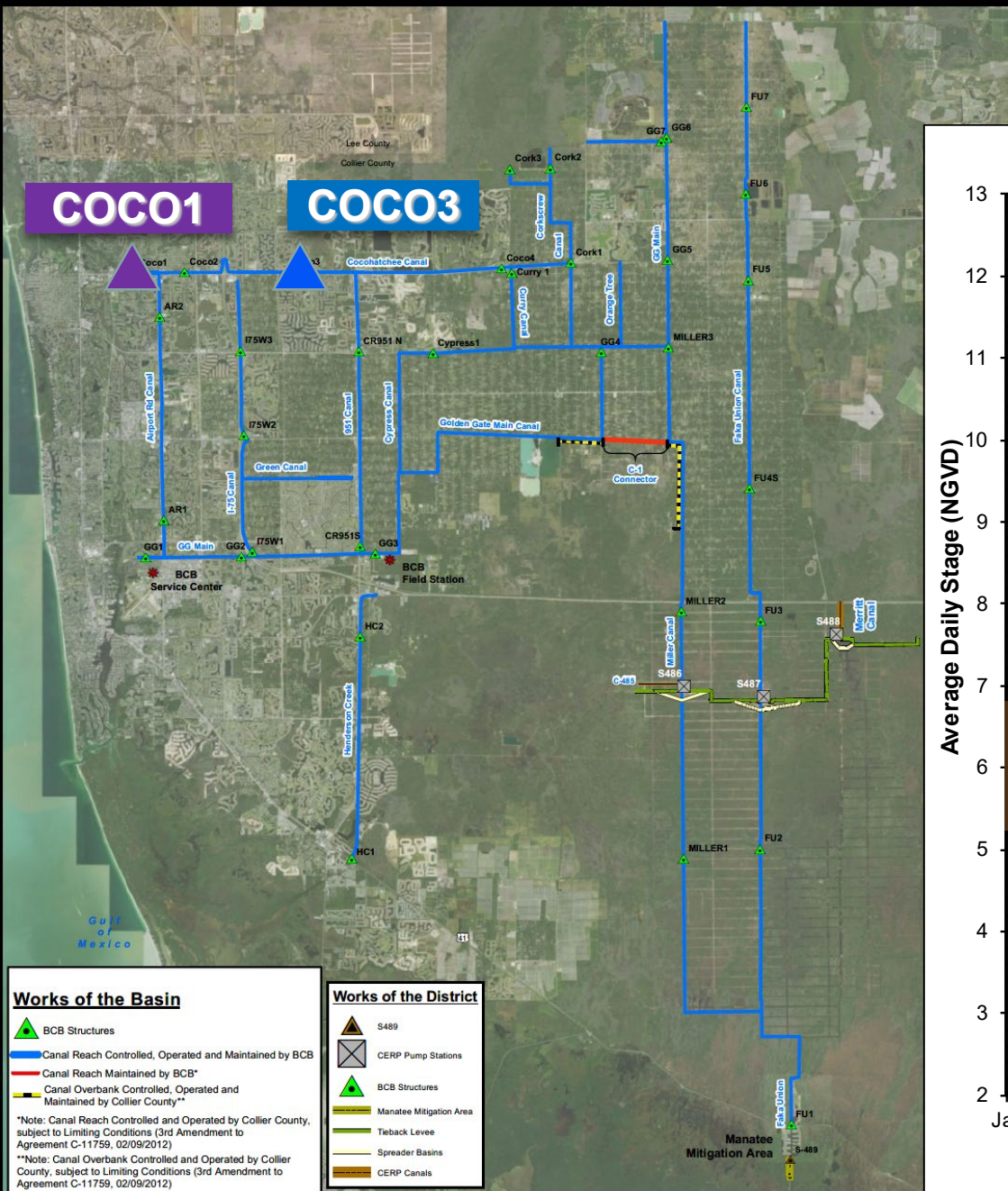
Big Cypress Basin Hydrologic Conditions as of 7/7/2021



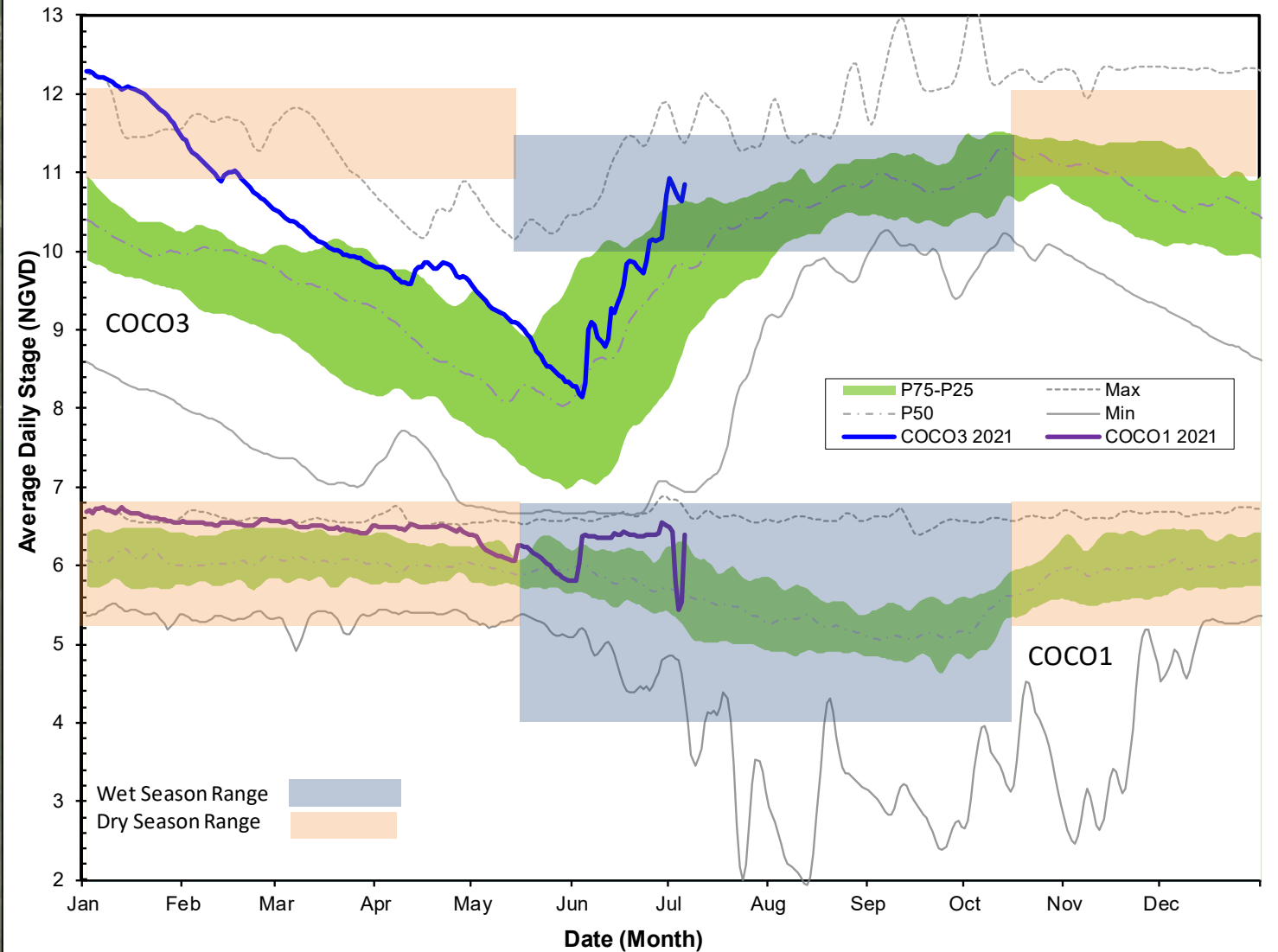
BCB Golden Gate Canal



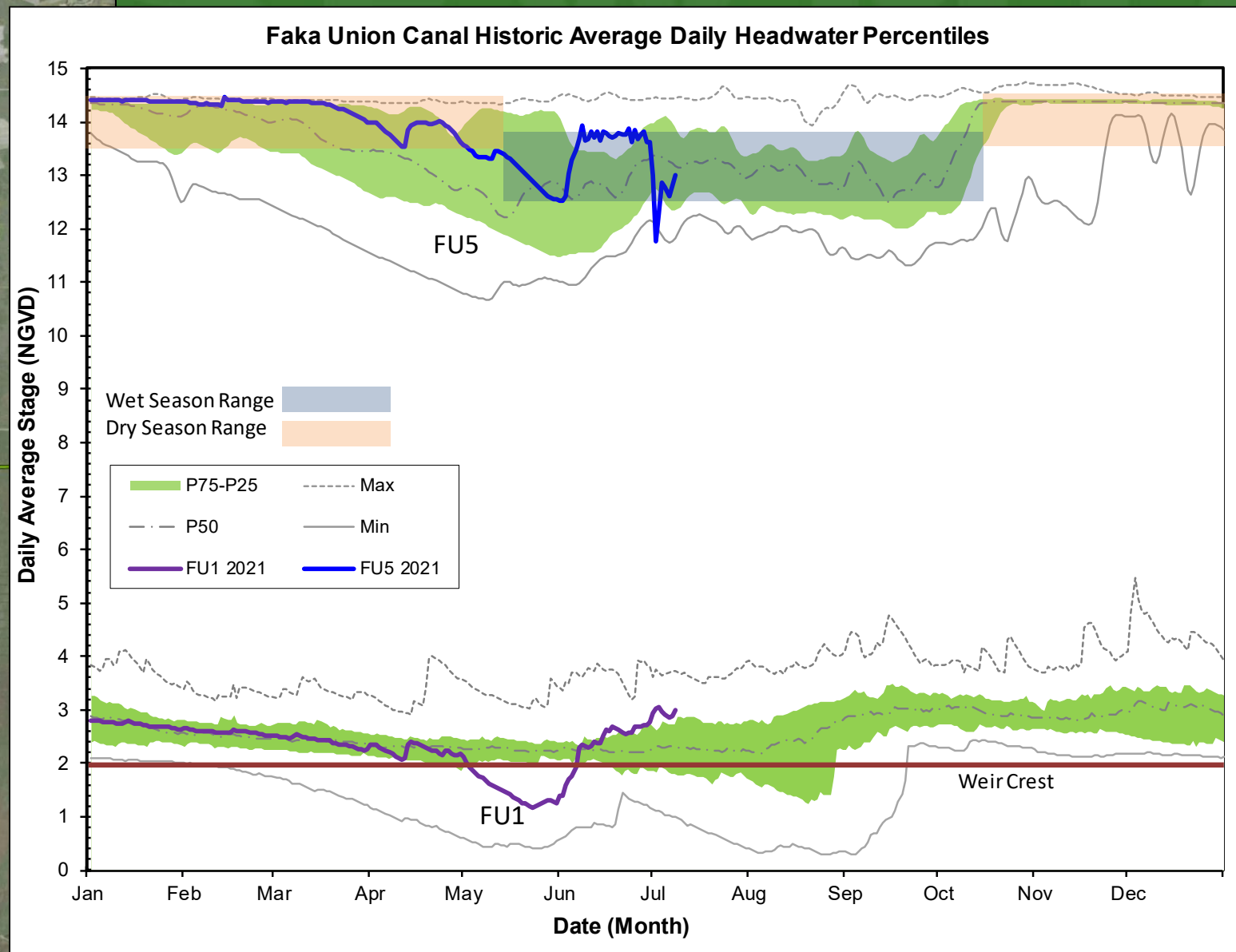
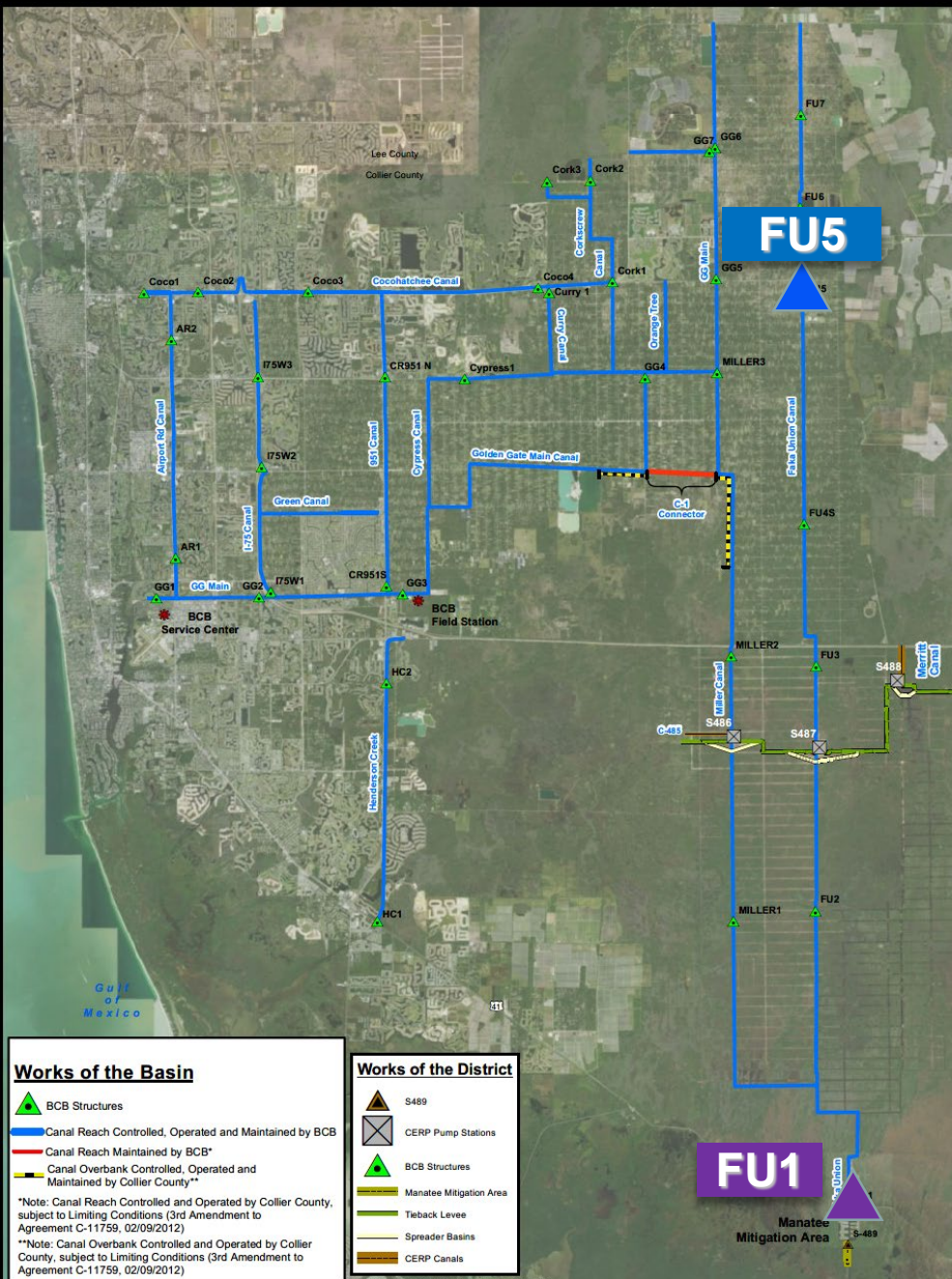
BCB Cocohatchee Canal



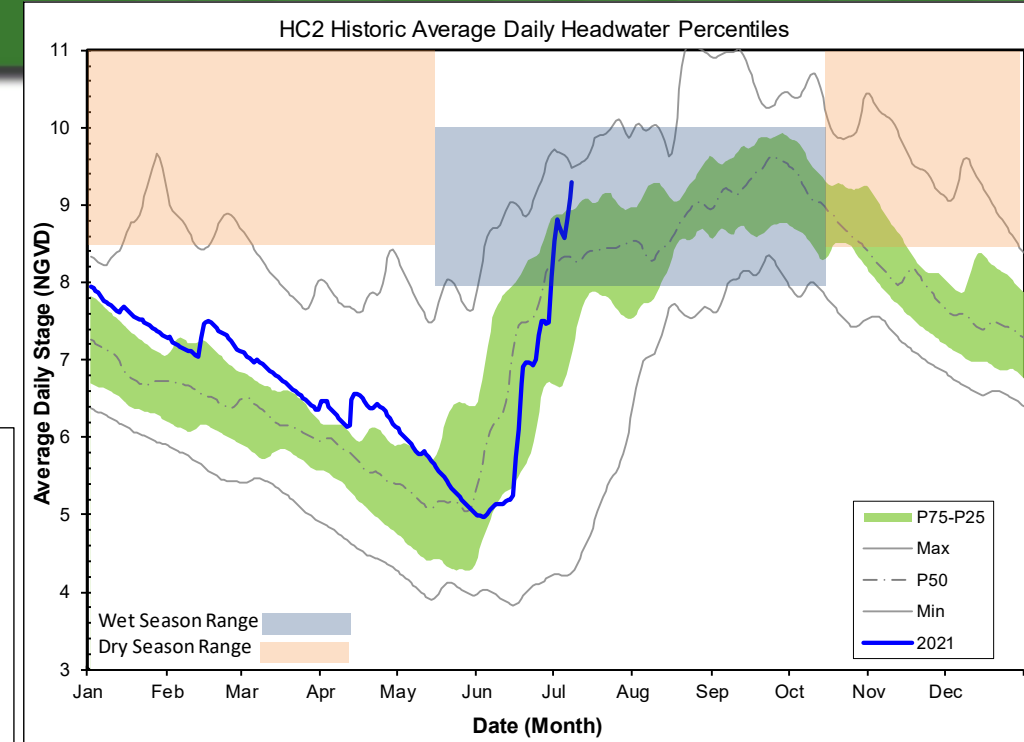
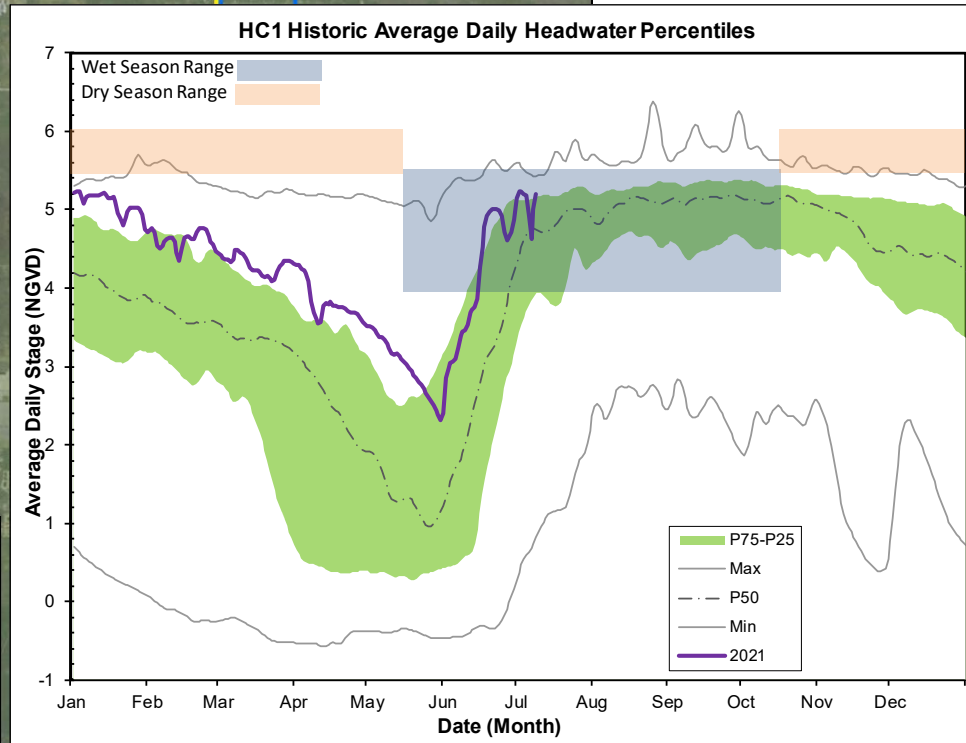
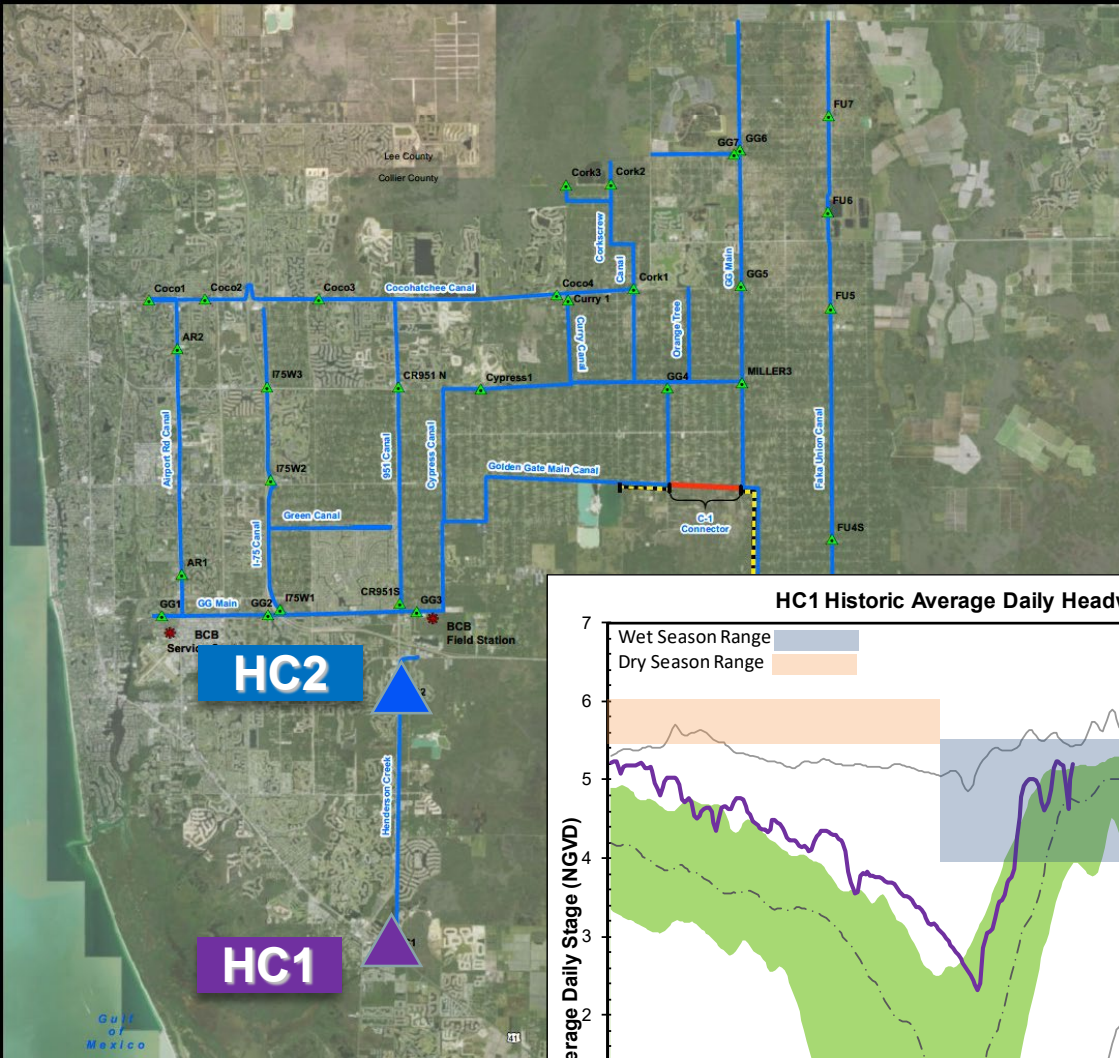
Cocohatchee Canal Historic Average Daily Headwater Percentiles



BCB Faka Union Canal



BCB Henderson Creek Canal



Works of the Basin

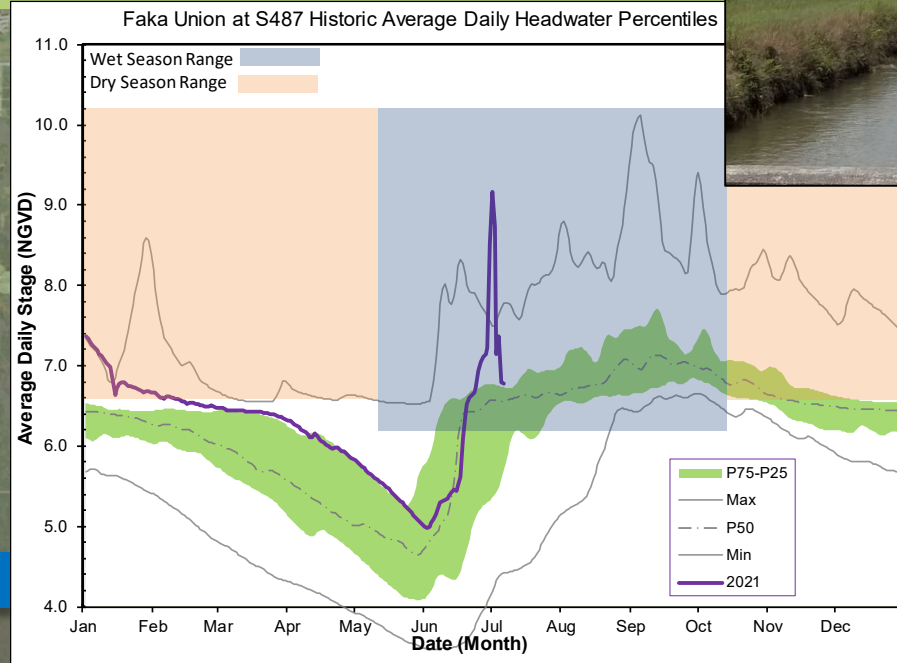
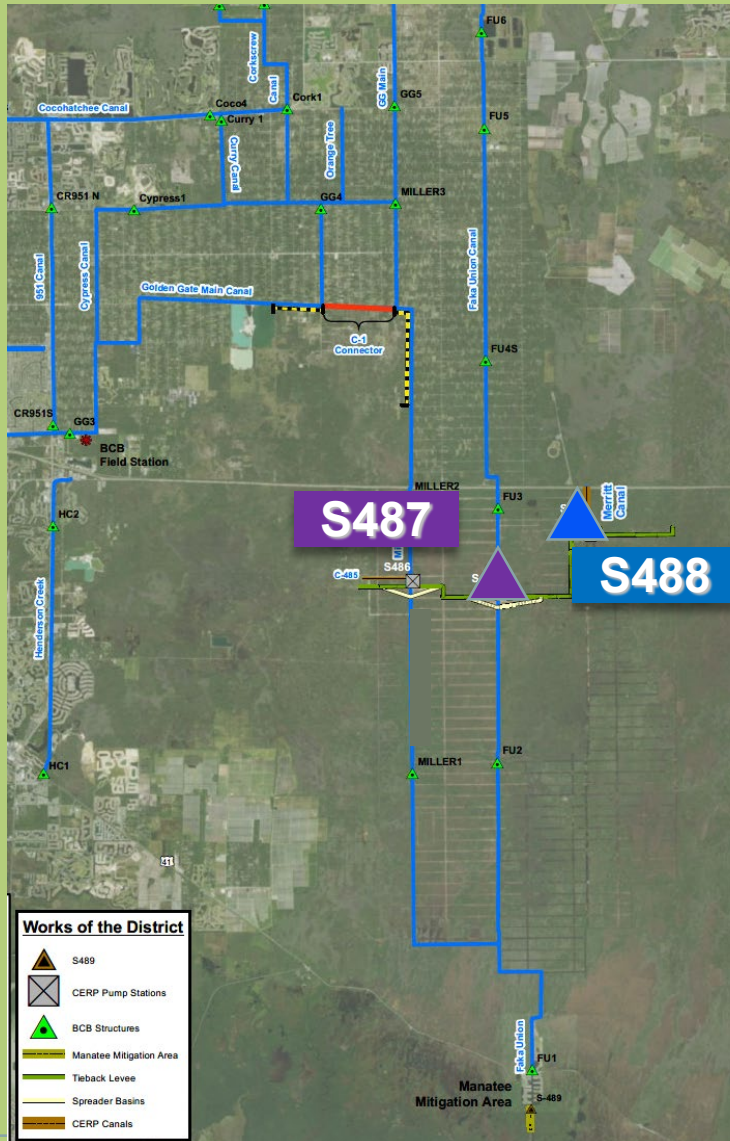
- BCB Structures
- Canal Reach Controlled, Operated and Maintained by BCB
- Canal Reach Maintained by BCB*
- Canal Overbank Controlled, Operated and Maintained by Collier County**

Works of the District

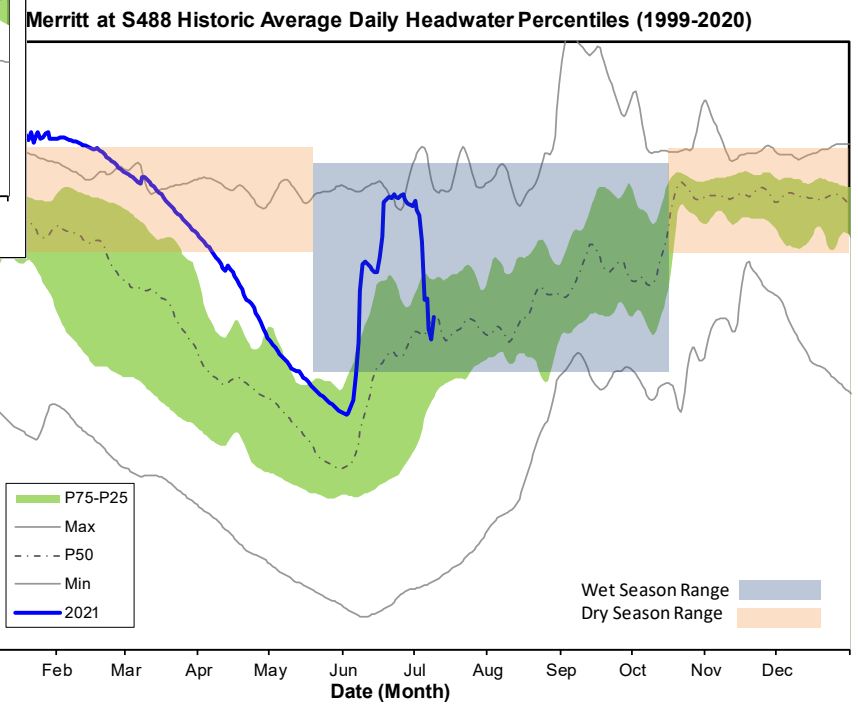
- S489
- CERP Pump Stations
- BCB Structures
- Manatee Mitigation Area
- Tieback Levee
- Spreader Basins
- CERP Canals

*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)

Picayune Strand Restoration Project Operations

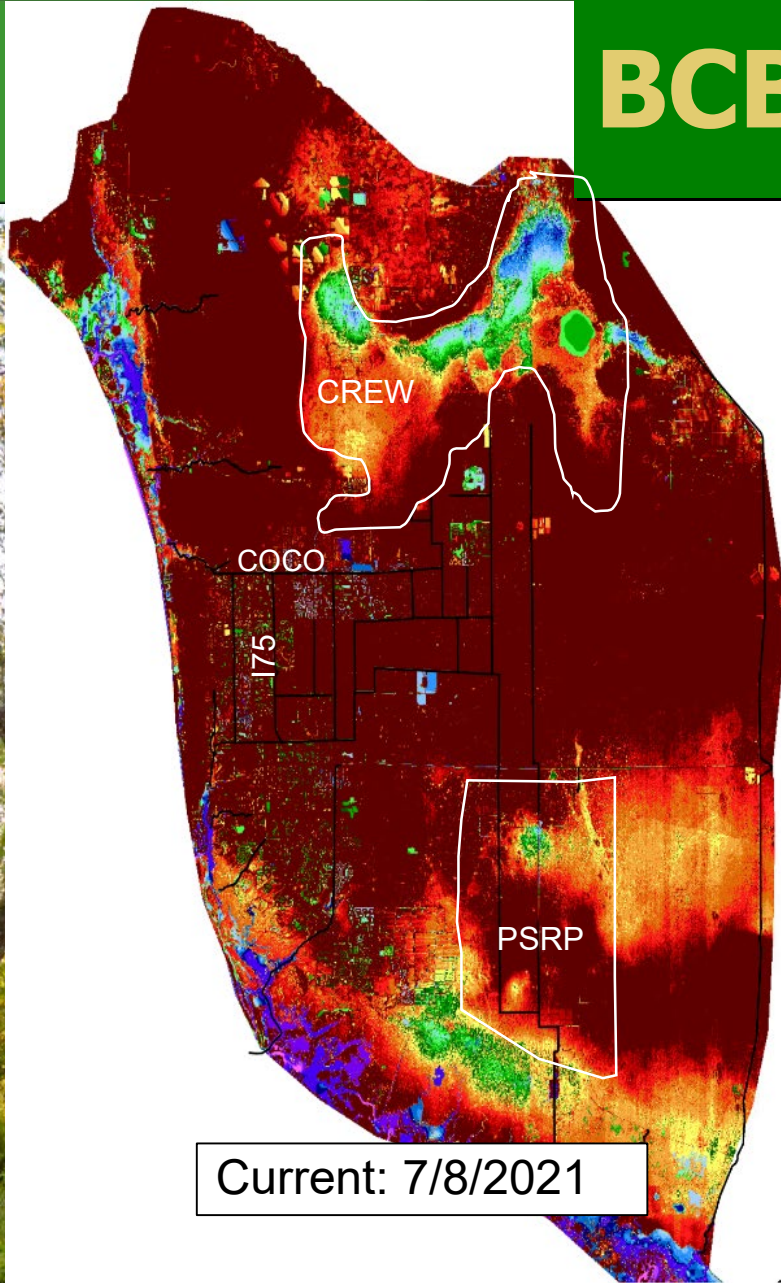


Faka Union Canal – After Initial Pumping

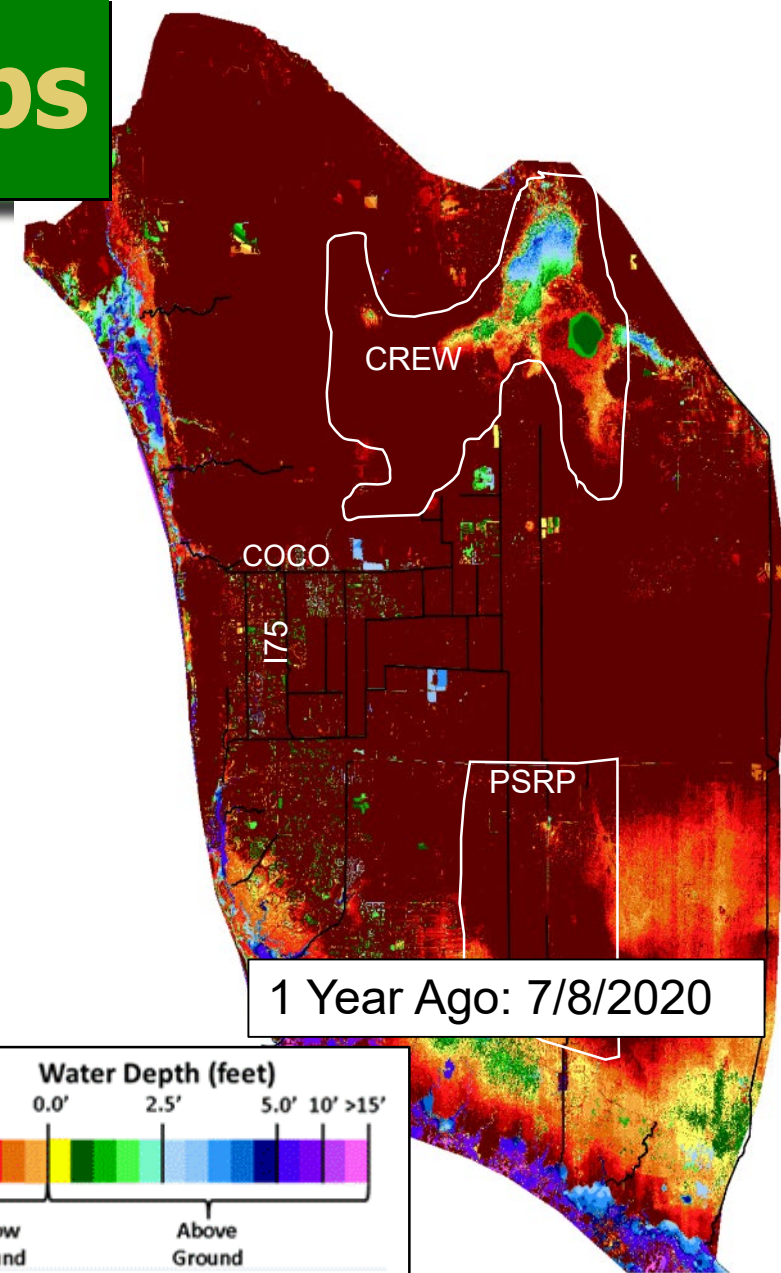
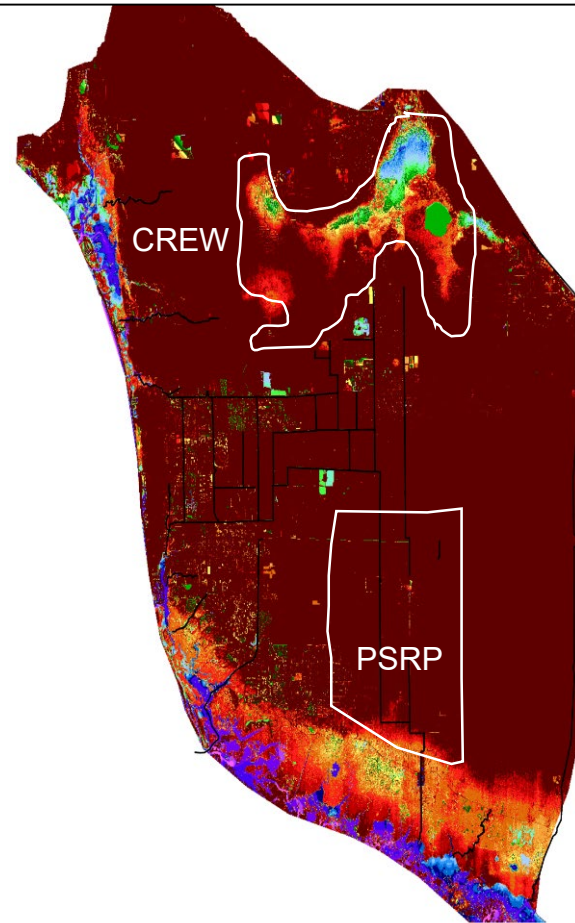


BCB Water Depth Maps

1 Month Ago: 6/8/2021

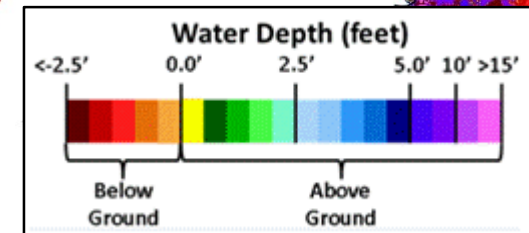


Current: 7/8/2021

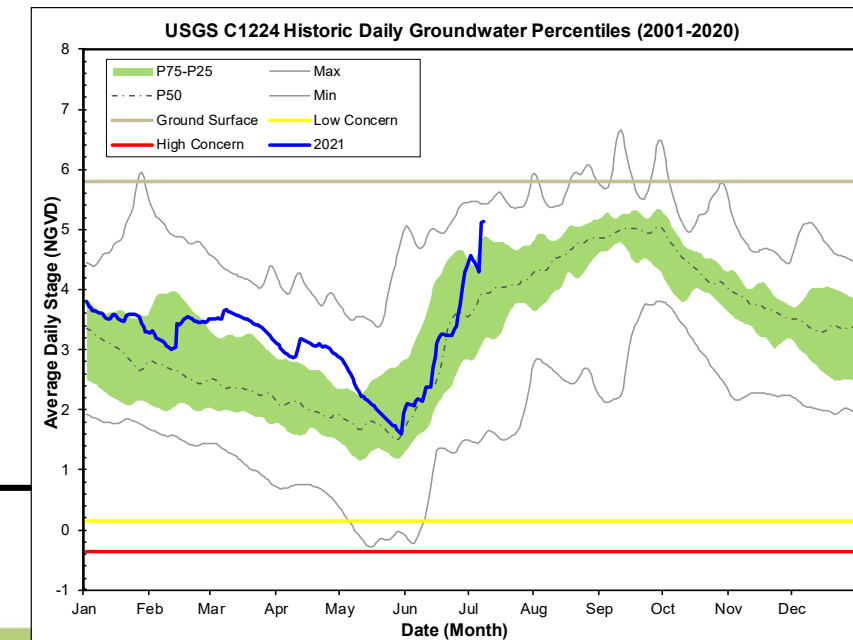
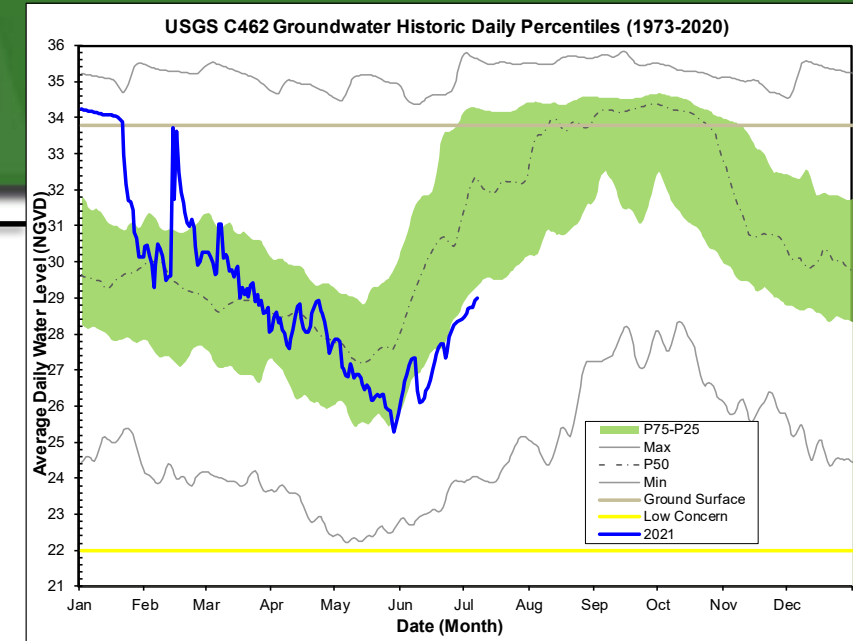
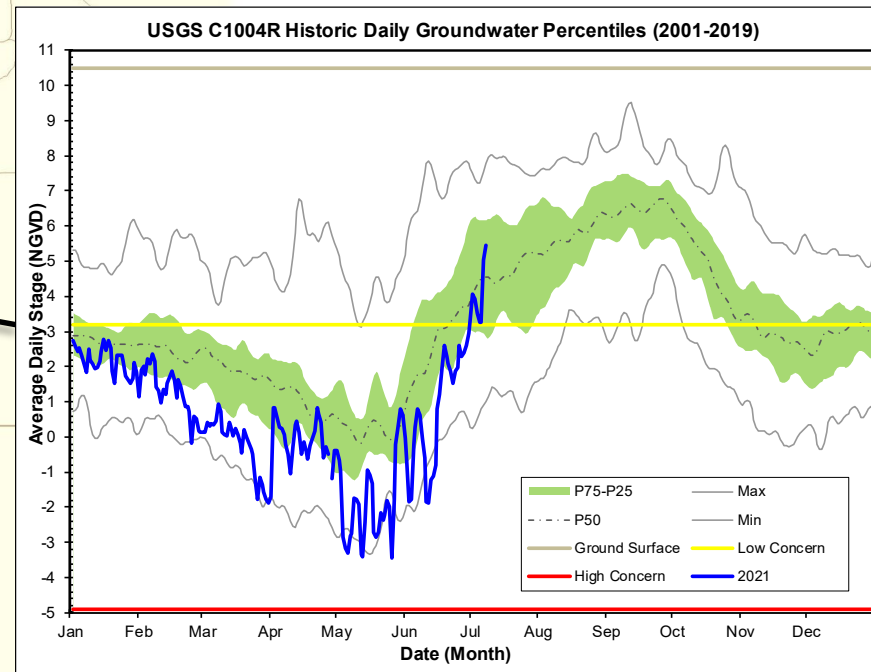
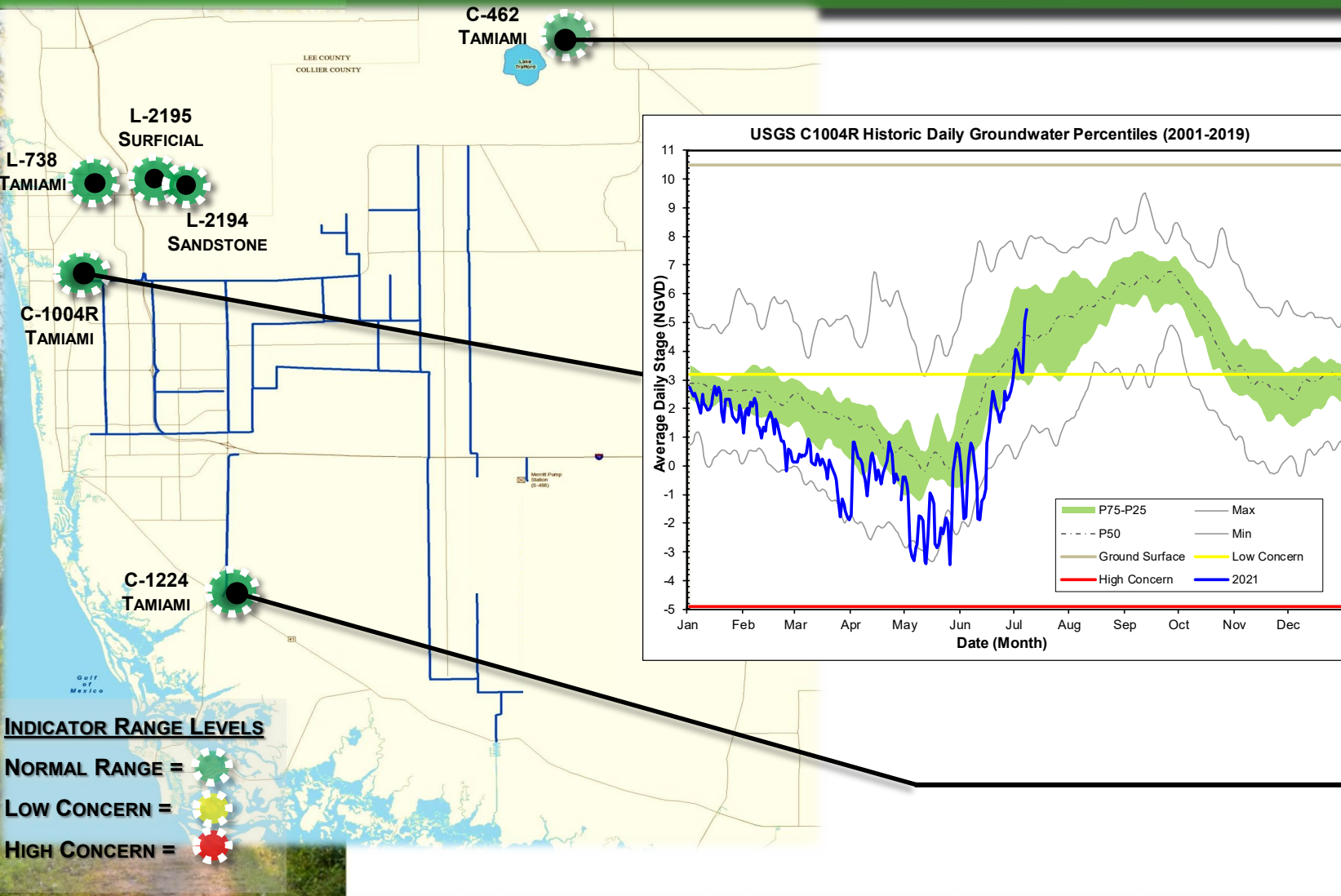


1 Year Ago: 7/8/2020

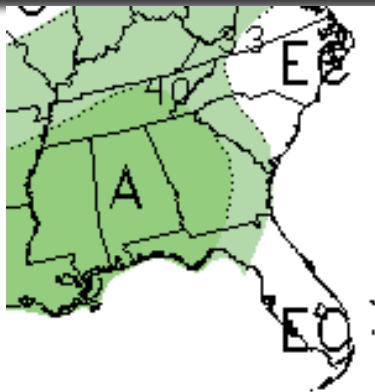
SOURCE: WATER DEPTH ASSESSMENT TOOL (SFWDAT)
ALL WDAT PRODUCTS BASED ON PROVISIONAL DATA



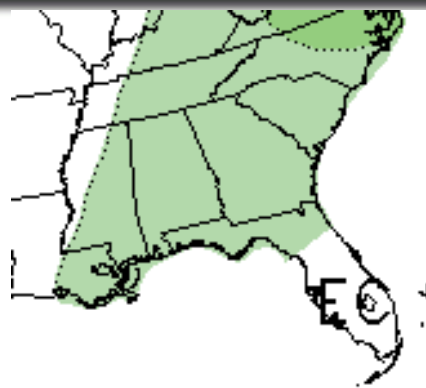
Groundwater Level Trends



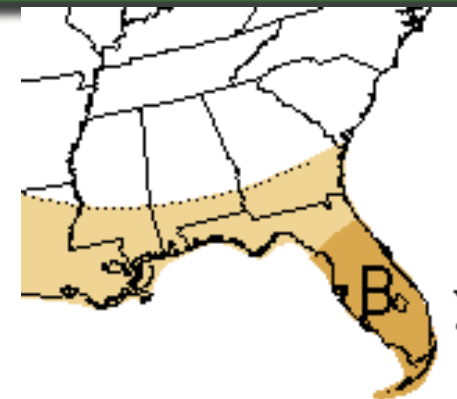
Long-Range Precipitation Outlook



July 2021

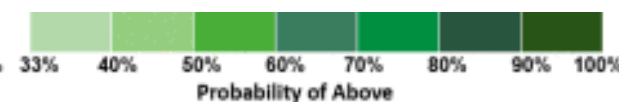
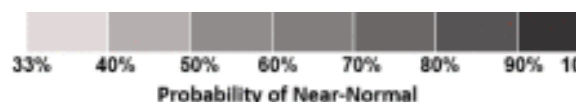
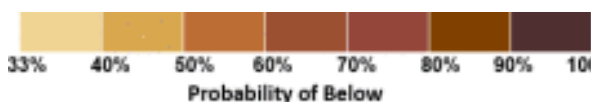


Aug. 2021 – Oct. 2021



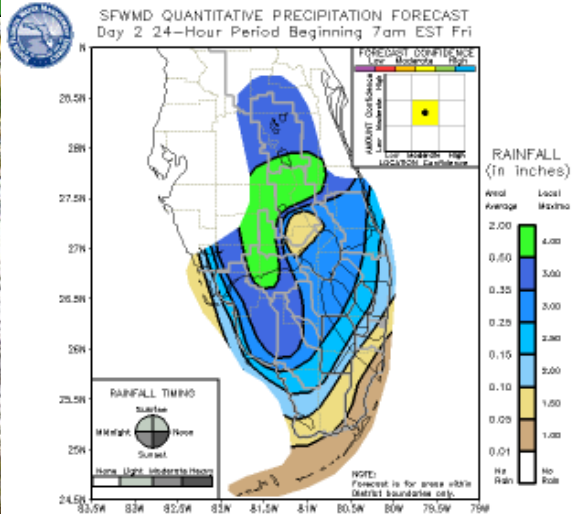
Nov. 2021 – Jan. 2022

- The most recent CPC precipitation outlook for July 2021 calls for equal chances for above, normal, or below average rainfall for south Florida.
- The CPC precipitation outlook for Aug. – Oct. calls equal chances for above, normal, or below average rainfall for south Florida.
- The CPC precipitation outlook for November – January calls for above average chance for below-normal rainfall.



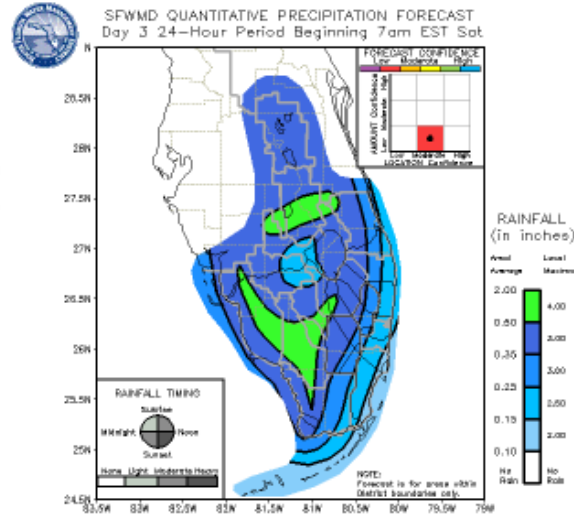
Short Term Forecast

Friday (Day 2)



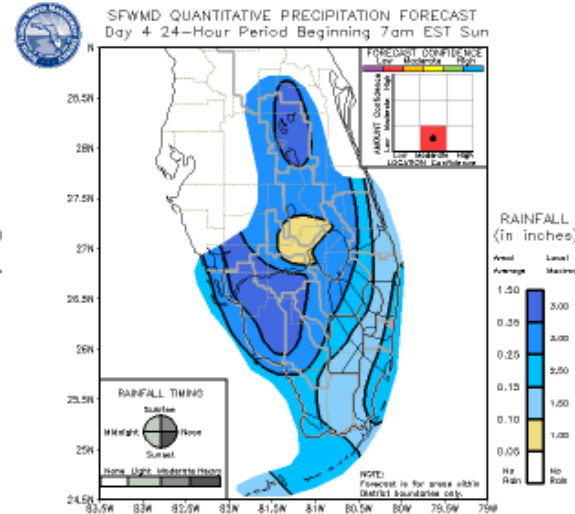
ISSUED: Thu 08-Jul-2021 05:38 EDT

Saturday (Day 3)



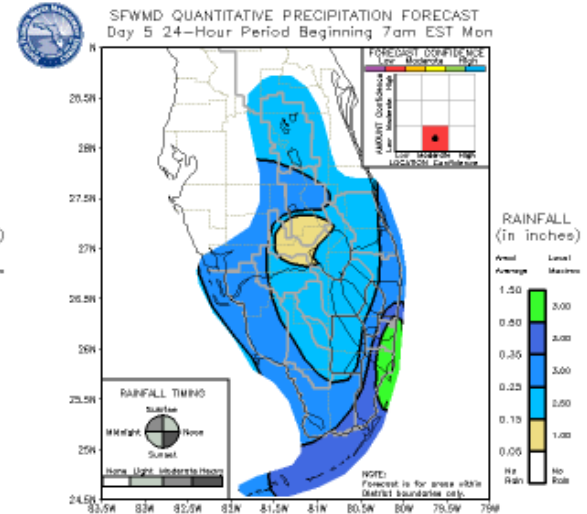
ISSUED: Thu 08-Jul-2021 06:01 EDT

Sunday (Day 4)



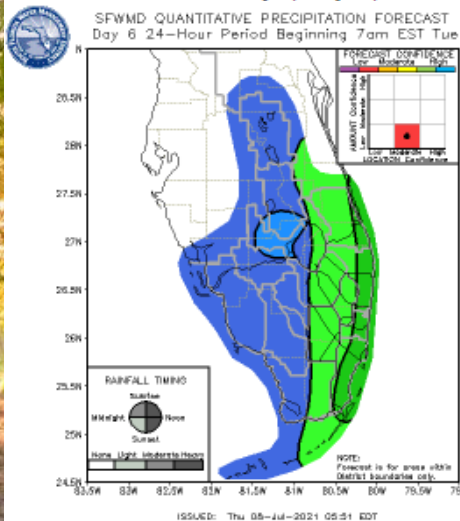
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Monday (Day 5)



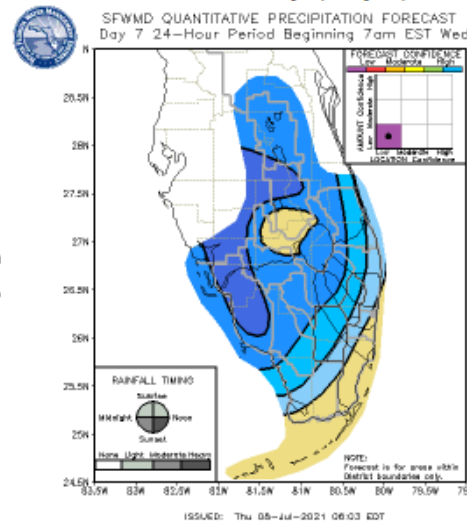
ISSUED: Thu 08-Jul-2021 06:23 EDT

Tuesday (Day 6)



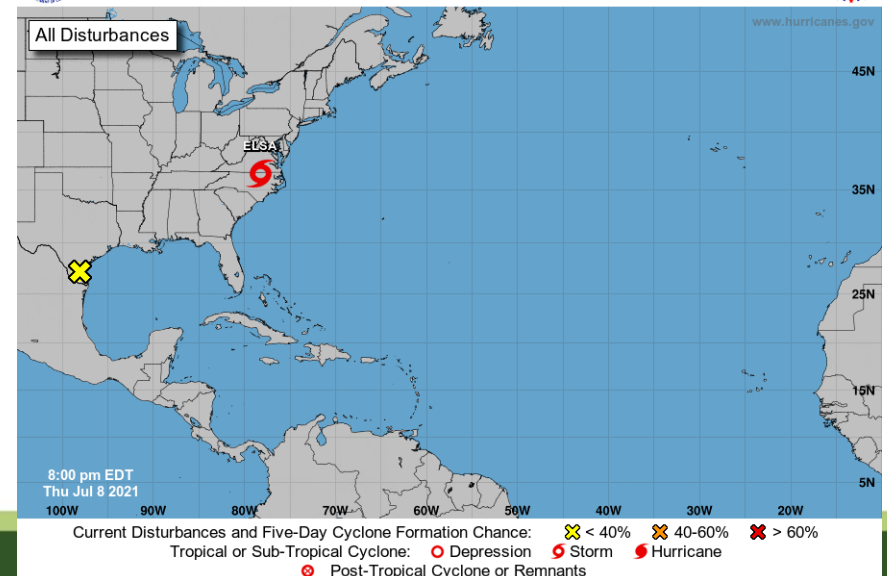
ISSUED: Thu 08-Jul-2021 05:51 EDT

Wednesday (Day 7)



ISSUED: Thu 08-Jul-2021 06:03 EDT

Five-Day Graphical Tropical Weather Outlook National Hurricane Center Miami, Florida



BCB Water Conditions Report

QUESTIONS ?



Public Comment on Item #11

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

If you're participating via Phone –

*9 Raises Hand

*6 Mutes/Unmutes