

# MAY & JUNE 2023

# BIG CYPRESS BASIN

# HYDROLOGIC REPORT





# SUMMARY OF HYDROLOGIC CONDITIONS IN THE BIG CYPRESS BASIN

May & June 2023

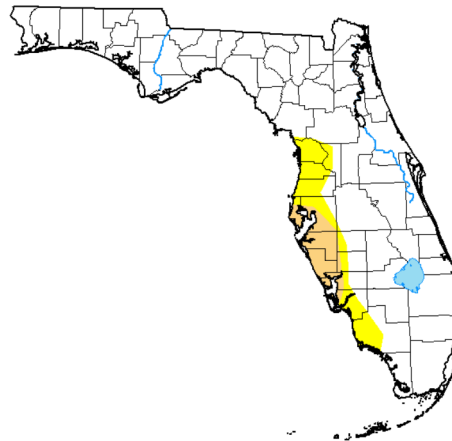
## SUMMARY

In May the Big Cypress Basin (Basin) received 4.2 inches of rain slightly surpassing the normal monthly average of 4.1 inches. Despite the above average rainfall for the month, canal levels in the upper and middle reaches of the Basin remained in water conservation mode. District meteorologists declared the official onset of the wet season on May 14th, which is approximately two weeks earlier than usual.

With only 66% of the average rainfall, June marked an unusually dry month, ranking as the 7th driest based on the Basin's period of record from 1990. Hurricane season officially commenced on June 1st and two named storms, Bret and Cindy, developed early in the season. Although they had no impact on the District, the development of storms this early in the season

### U.S. Drought Monitor Florida

July 4, 2023  
(Released Thursday, Jul. 6, 2023)  
Valid 8 a.m. EDT



	Drought Conditions (Percent Area)					
	None	D0-D1	D1-D2	D2-D3	D3-D4	D4
Current	87.98	12.02	4.37	0.00	0.00	0.00
Last Week 06-27-2023	93.84	6.16	0.00	0.00	0.00	0.00
3 Months Ago 04-04-2023	11.40	88.60	66.06	55.09	4.51	0.00
Start of Calendar Year 01-01-2023	56.61	43.39	30.80	19.77	0.00	0.00
Start of Water Year 09-01-2022	91.16	8.84	0.00	0.00	0.00	0.00
One Year Ago 07-05-2022	76.50	23.50	0.00	0.00	0.00	0.00

**Intensity**  
 None (White)      D2 Severe Drought (Orange)  
 D0 Abnormally Dry (Yellow)      D3 Extreme Drought (Red)  
 D1 Moderate Drought (Light Orange)      D4 Exceptional Drought (Dark Red)

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.asp>

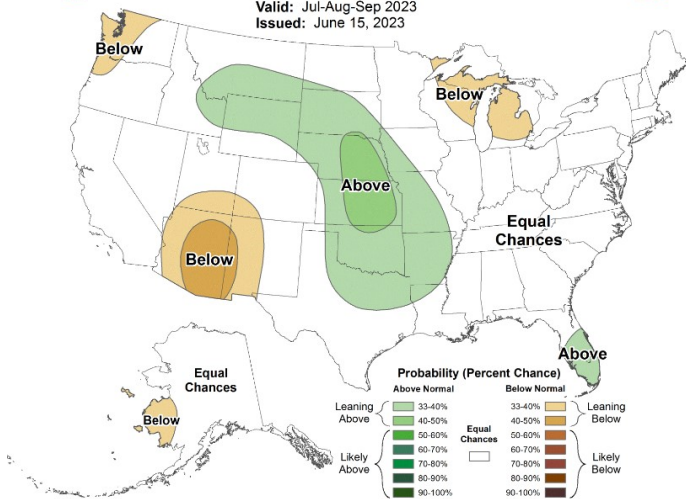
**Author:**  
Curtis Riganti  
National Drought Mitigation Center



[droughtmonitor.unl.edu](http://droughtmonitor.unl.edu)

### Seasonal Precipitation Outlook

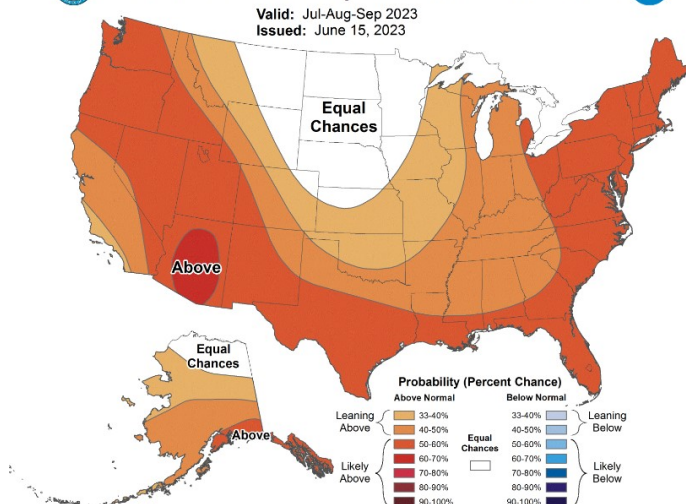
Valid: Jul-Aug-Sep 2023  
Issued: June 15, 2023



was attributed, in part, to the record high sea surface temperatures. The warmer sea surface temperatures in the Atlantic are more typical of conditions seen in August. Given the record-breaking warm temperatures in the Atlantic, experts have revised their forecast for the 2023 hurricane season and are now anticipating an above-average season.

### Seasonal Temperature Outlook

Valid: Jul-Aug-Sep 2023  
Issued: June 15, 2023



Drought conditions in May improved from moderate drought to predominantly normal or non-drought conditions. However, with the lack of significant rainfall in June conditions along the coastal areas regressed from non-drought conditions to abnormally dry according to the National Integrated Drought Information System (NIDIS) (top).

Based on the National Weather Service's 30-day forecast, there is an equal chance of normal precipitation. The temperature outlook for the next 30 days indicates a 50-60% likelihood of above average temperatures. The 3-month projection for the Basin predicts a 30-40% chance of above-normal precipitation and a 50-60% likelihood of above-average temperatures (left).

## **BCB RAINFALL**

### **May**

As measured by twenty-four (24) reporting stations (ref. **Figures 1, 2, Table 1**), the basin-wide monthly average was **4.2 inches (102% of normal)**, which is slightly above the average 4.1 inches typically collected.

Based on collected gauge and radar data, the rainfall distribution across the Basin varied widely from 1.51 inches to 9.51 inches. **Figure 3a** shows the average rainfall for each of the Basin's watersheds based on gauge adjusted radar. The Henderson-Belle Meade basin received the highest rainfall with a **5.48 inch** areal average across the watershed and the lowest was the Coastal basin with about **2.39 inches**. The Basin's total areal weighted average rainfall was **3.84 inches**. The month's highest gauge total was collected at Desoto10 (Site R-24), which received **9.51 inches**. This month's lowest rainfall was recorded at GG#7 (Site R-22), which received **1.51 inches**. The rainfall totals and their locality distribution across the BCB/Lower West Coast are shown on **Figure 3, 3a** and **4**.

### **June**

As measured by twenty-four (24) reporting stations (ref. **Figures 1, 2, Table 1**), the basin-wide June monthly average was **6.8 inches (66% of normal)**, which is below the average 10.3 inches typically collected.

Based on collected gauge and radar data, the rainfall distribution across the Basin was fairly uniform except for an isolated area in the Okaloacoochee basin which had local rainfall of 12.5 inches. **Figure 3a** shows the average rainfall for each of the Basin's watersheds based on gauge adjusted radar. The Trafford basin received the highest rainfall with about **10.88 inch** areal average across the watershed and the lowest was the Freedom Park basin with about **4.39 inches**. The Basin's total areal weighted average rainfall was **7.5 inches**. The month's highest gauge total was collected at IFAS (Site R-14), which received **12.53 inches**. This month's lowest rainfall was recorded at Marco R.O. Plant (Site R-15), which received **3.13 inches**. The rainfall totals and their distribution across the BCB/Lower West Coast are shown on **Figure 3, 3a** and **4**.

## **BCB CANAL SYSTEMS**

All of the canals were maintained in water conservation mode for May and June to conserve as much water as possible to promote groundwater recharge. Water levels in the canals increased towards the end of May but with the absence of any meaningful rain event, water levels continue to fluctuate. There were basically no discharges through the coastal structures with the exception of FU1 which is due to tidal influence (**Figure 4a**).

- **GOLDEN GATE SYSTEM**

Control structures in the Golden Gate Main canal system were kept fully closed for May and June to conserve as much water as possible. Discharges into tidal waters from GG1 starting May 1st were only 850 acre-feet (above the 5th percentile) in contrast to the 33,266 acre-feet average. Operations continue to maintain the system in water conservation mode and limit discharges into tidal waters. Current conditions across the Golden Gate system are above the 25th percentile with GG1 and GG2 above the 90th percentile (ref **Figure 5A & 5B**).

- **COCOCHATCHEE AND CORKSCREW SYSTEM**

All of the control structures in the Cocohatchee and Corkscrew canal systems were maintained

in dry season operations and have not transitioned into wet season operations due to the lack of rainfall in the Basin. There were virtually no discharges into tidal waters for May and June. Discharges starting May 1st from COCO1 were only 24 acre-feet (above the 10th percentile for May and June) in comparison to the 3,000 acre-feet average. Water levels at COCO1 and COCO2 have increased above the 50th percentile, however the rest of the Cocohatchee system is above the 25th percentile. Water levels in the Corkscrew system increased the beginning of June before decreasing mid-June and are currently above the 25th percentile. It is important to note that the water levels in the canal at Corkscrew have not released water south or west and the decrease in water levels are due to the very dry conditions. (ref **Figure 6A, 6B, & 6C**).

- **FAKA UNION SYSTEM**

The entire Faka Union system was operated in water conservation mode with no water being released south through any structures except for FU1 which is tidally influenced. Towards the end of May, water levels experienced an initial rise with the onset of wet season. However, during mid-June water levels fluctuated without any significant rainfall. Presently, the conditions in the Faka Union system are above the 25th percentile, except for FU5 which exceeds the 50th percentile (ref **Figure 7A & 7B**).

- **HENDERSON CREEK SYSTEM**

Water control structures in the Henderson Creek system remained fully closed for May and June to conserve as much water as possible and promote groundwater recharge. Additionally, there were no discharges into tidal waters during this period. Although the canal levels initially increased with the start of wet season, the absence of substantial rainfall has led to a decrease in water levels in HC1 and HC2 as June concluded. Current conditions in the system are above the 25th percentile (ref **Figure 8A & 8B**).

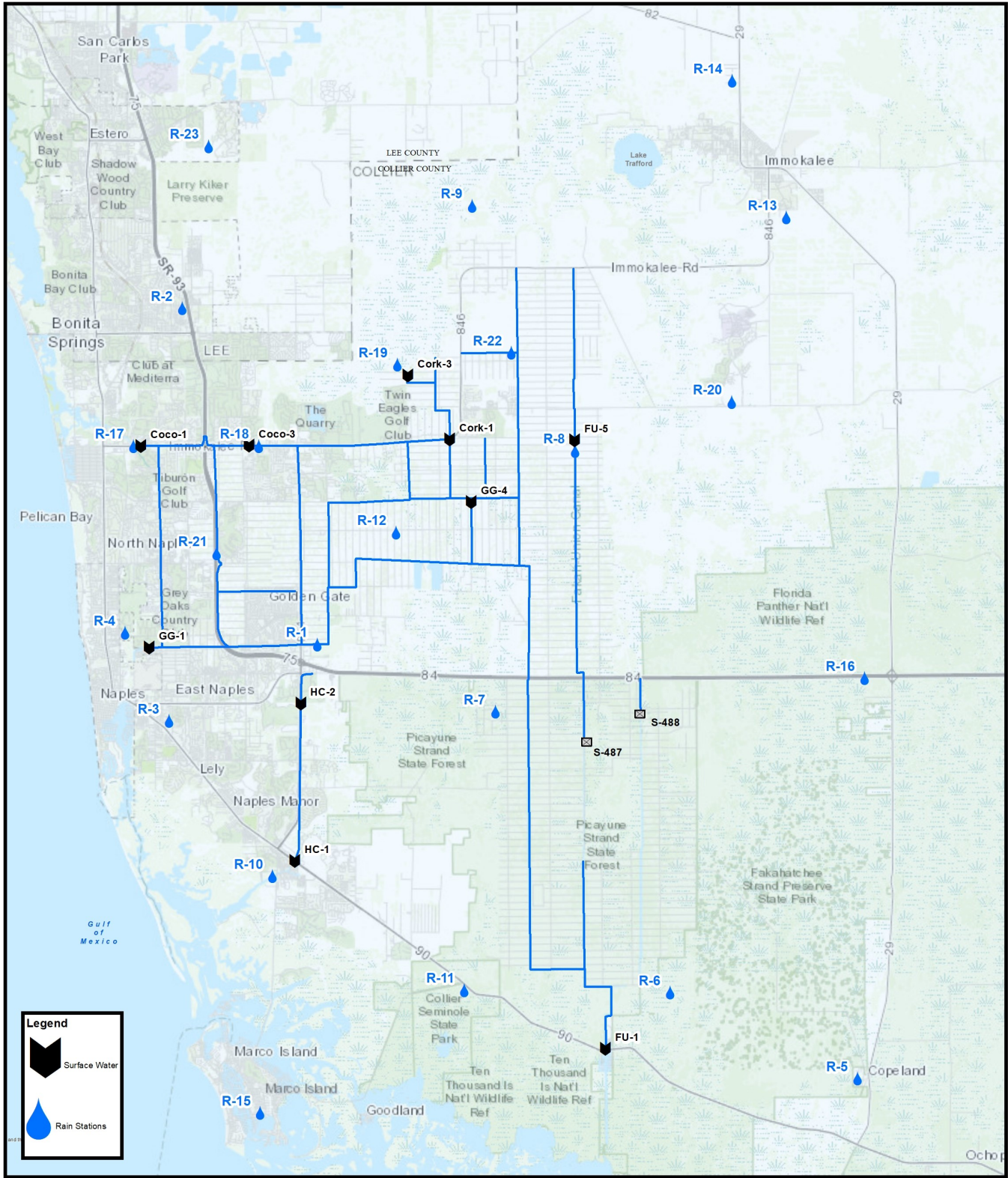
- **CORKSCREW SWAMP**

**Figure 10** shows the historical trends for Corkscrew, Bird Rookery, and the Cork 3 structure and the 2023 corresponding levels. In May Corkscrew, Bird Rookery and Cork 3 experienced a decline in their water levels, reaching their annual minimums. In early June water levels in Corkscrew, Bird Rookery, and Cork 3 experienced an increase due to thunderstorms in the Trafford basin (**Figure 3a**). As July approached, Bird Rookery's water levels continued to decline, whereas Corkscrew witnessed a brief decrease before steadily increasing throughout July. Cork 3 mostly remained dry during May and June. The water levels of Lake Trafford, as depicted in **Figure 11**, show an increase mid-June and is currently above the 25th percentile as June ended.

## **BIG CYPRESS BASIN & LOWER WEST COAST GROUNDWATER LEVELS**

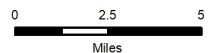
The current reporting (07/05/2023) for the Lower West Coast [LWC] indicate an increase in groundwater wells from the previous reporting in May. Groundwater levels continued to decrease throughout May before seeing a sharp increase the first half of June. The second half of June observed trends in groundwater levels decrease just as sharply before slowly increasing heading into July. Due to unusually dry conditions, many reported wells have now dropped below the 25th percentile and are approaching historically low levels for this time of year (ref. **Table 2, Figure 9**).





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**BIG CYPRESS BASIN**  
 SFWMD  
 2660 Horseshoe Dr. N.  
 Naples, Florida 34104  
 239-263-7615

# FIGURE 1 Hydrologic Station Map

Collier County, Florida



Hydrologic\_Map\_1\_01\_2016.mxd

**TABLE 1**  
**RAINFALL REPORT - MAY 2023**  
**DISTRICT/BASIN RAINFALL STATIONS**  
 (ALL NUMBERS ARE IN INCHES)

STATION INDEX NO.	STATION NAME	MAY 2023	LONG TERM MONTHLY AVERAGE	MONTHLY DIFFERENCE	CALENDAR YEAR 2023 CUMULATIVE TOTAL	AVERAGE CALENDAR YEAR TO DATE	YEAR TO DATE DIFFERENCE
R-1	GG#3	4.61	5.88	-1.27	11.07	13.33	-2.26
R-2	BONITA SPRINGS WATER PLANT	6.72	3.39	3.33	9.78	11.56	-1.78
R-3	COLLIER COUNTY COURTHOUSE	2.10	3.77	-1.67	9.81	11.85	-2.04
R-4	FREEDOM PARK	1.65	4.71	-3.06	6.79	11.87	-5.08
R-5	FAKAHATCHEE STRAND HQ	5.36	4.69	0.67	8.92	12.91	-3.99
R-6	DAN HOUSE PRAIRIE	5.03	3.58	1.45	8.90	10.51	-1.61
R-7	SGGE WEATHER STATION	5.85	4.81	1.04	10.18	12.50	-2.32
R-8	FAKA UNION #5	5.29	4.85	0.44	11.00	13.76	-2.76
R-9	CORKSCREW SWAMP NORTH END	4.76	3.43	1.33	9.83	10.75	-0.92
R-10	ROOKERY BAY HQ	2.16	3.50	-1.34	4.62	11.09	-6.47
R-11	COLLIER SEMINOLE STATE PARK	3.97	3.54	0.43	8.17	11.46	-3.29
R-12	G.G. FIRE STATION	5.68	4.09	1.59	9.86	12.54	-2.68
R-13	IMMOKALEE LANDFILL	2.30	4.42	-2.12	7.70	13.25	-5.55
R-14	IFAS	2.79	4.08	-1.29	10.43	13.05	-2.62
R-15	MARCO R.O. PLANT	1.88	3.13	-1.25	7.74	11.76	-4.02
R-16	FAKAHATCHEE STRAND NORTH END	4.25	5.03	-0.78	9.40	15.04	-5.64
R-17	COCO#1	5.06	2.83	2.23	9.22	10.54	-1.32
R-18	COCO#3	4.14	3.27	0.87	7.27	10.74	-3.47
R-19	BIRD ROOKERY	3.60	4.80	-1.20	8.03	10.45	-2.42
R-20	AVE MARIA	3.54	4.41	-0.87	7.76	13.26	-5.50
R-21	I75W2	3.00	4.73	-1.73	7.25	10.69	-3.44
R-22	GG#7	1.51	4.52	-3.01	6.95	11.00	-4.05
R-23	FPWX	5.88	2.58	3.30	10.75	10.70	0.05
R-24	DSOTO10	9.51	New Site	New Site	New Site	No Historical Data	

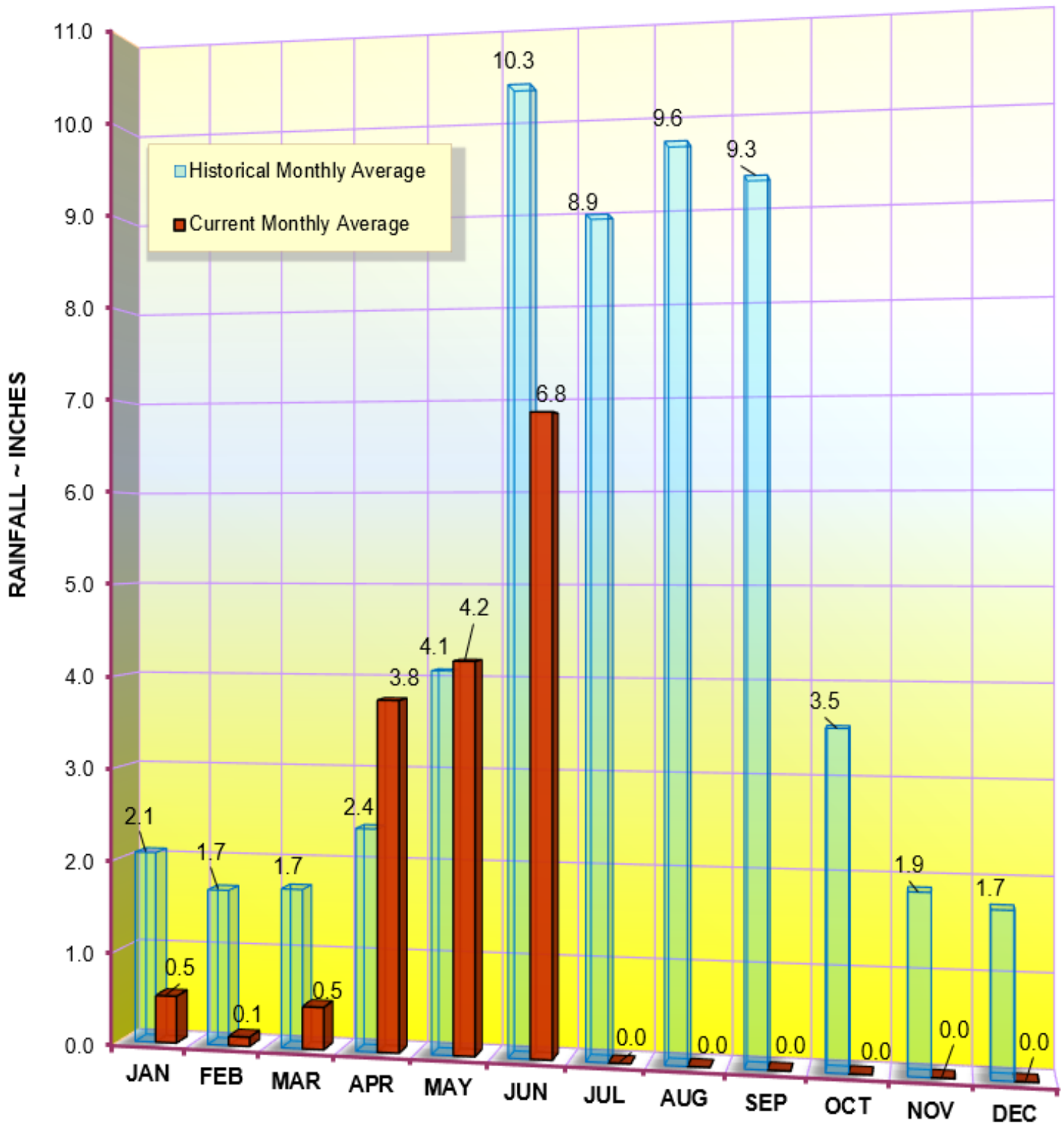
AVERAGES	4.19	4.09	0.10	8.76	11.94	-3.18
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**TABLE 1**  
**RAINFALL REPORT - JUNE 2023**  
**DISTRICT/BASIN RAINFALL STATIONS**  
 (ALL NUMBERS ARE IN INCHES)

STATION INDEX NO.	STATION NAME	JUNE 2023	LONG TERM MONTHLY AVERAGE	MONTHLY DIFFERENCE	CALENDAR YEAR 2023 CUMULATIVE TOTAL	AVERAGE CALENDAR YEAR TO DATE	YEAR TO DATE DIFFERENCE
R-1	GG#3	6.70	12.66	-5.96	17.77	25.99	-8.22
R-2	BONITA SPRINGS WATER PLANT	6.30	8.64	-2.34	16.08	20.20	-4.12
R-3	COLLIER COUNTY COURTHOUSE	7.43	8.36	-0.93	17.24	20.20	-2.96
R-4	FREEDOM PARK	4.51	10.22	-5.71	11.30	22.09	-10.79
R-5	FAKAHATCHEE STRAND HQ	4.45	11.12	-6.67	13.37	24.03	-10.66
R-6	DAN HOUSE PRAIRIE	7.21	9.36	-2.15	16.11	19.87	-3.76
R-7	SGGE WEATHER STATION	8.20	11.62	-3.42	18.38	24.12	-5.74
R-8	FAKA UNION #5	8.01	12.93	-4.92	19.01	26.69	-7.68
R-9	CORKSCREW SWAMP NORTH END	10.24	11.62	-1.38	20.07	22.37	-2.30
R-10	ROOKERY BAY HQ	4.91	9.74	-4.83	9.53	20.83	-11.30
R-11	COLLIER SEMINOLE STATE PARK	3.77	10.15	-6.38	11.94	21.61	-9.67
R-12	G.G. FIRE STATION	5.25	10.05	-4.80	15.11	22.60	-7.49
R-13	IMMOKALEE LANDFILL	8.17	8.93	-0.76	15.87	22.18	-6.31
R-14	IFAS	12.53	8.87	3.66	22.96	21.93	1.03
R-15	MARCO R.O. PLANT	3.13	9.28	-6.15	10.87	21.04	-10.17
R-16	FAKAHATCHEE STRAND NORTH END	7.58	10.47	-2.89	16.98	25.51	-8.53
R-17	COCO#1	3.96	8.32	-4.36	13.18	18.86	-5.68
R-18	COCO#3	9.61	8.79	0.82	16.88	19.53	-2.65
R-19	BIRD ROOKERY	8.20	13.80	-5.60	16.23	24.25	-8.02
R-20	AVE MARIA	4.52	8.83	-4.31	12.28	22.10	-9.82
R-21	I75W2	6.85	11.84	-4.99	14.10	22.54	-8.44
R-22	GG#7	6.01	11.24	-5.23	12.96	22.24	-9.28
R-23	FPWX	9.23	9.95	-0.72	19.98	20.65	-0.67
R-24	DSOTO10	7.22	New Site	New Site	New Site	No Historical Data	
AVERAGES		6.83	10.30	-3.46	15.57	22.24	-6.66

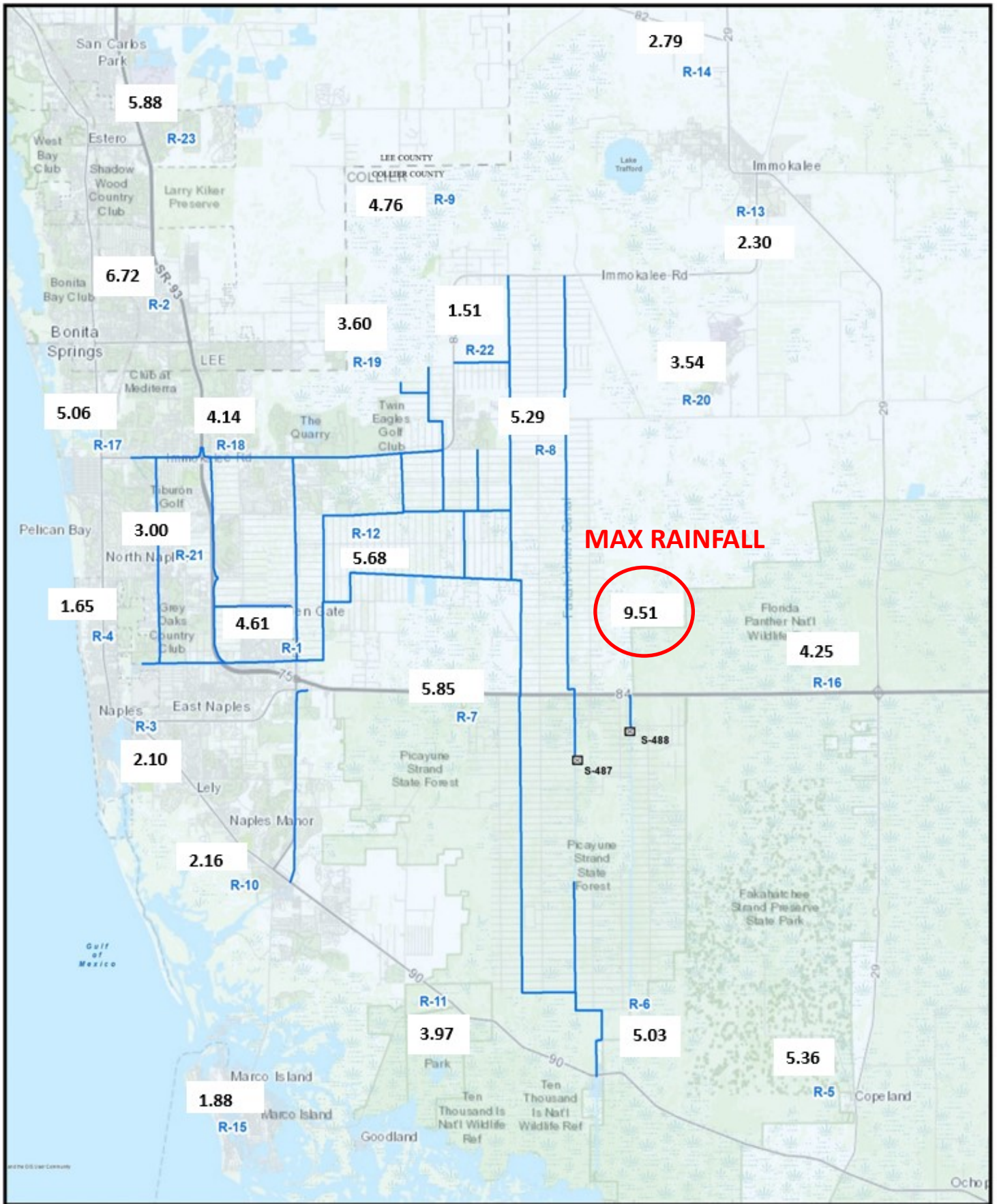


**BCB ANNUAL RAINFALL**  
**MONTHLY AVERAGE & HISTORICAL AVERAGE TRENDS**  
**(FROM BCB RAINFALL GAUGE DATA)**

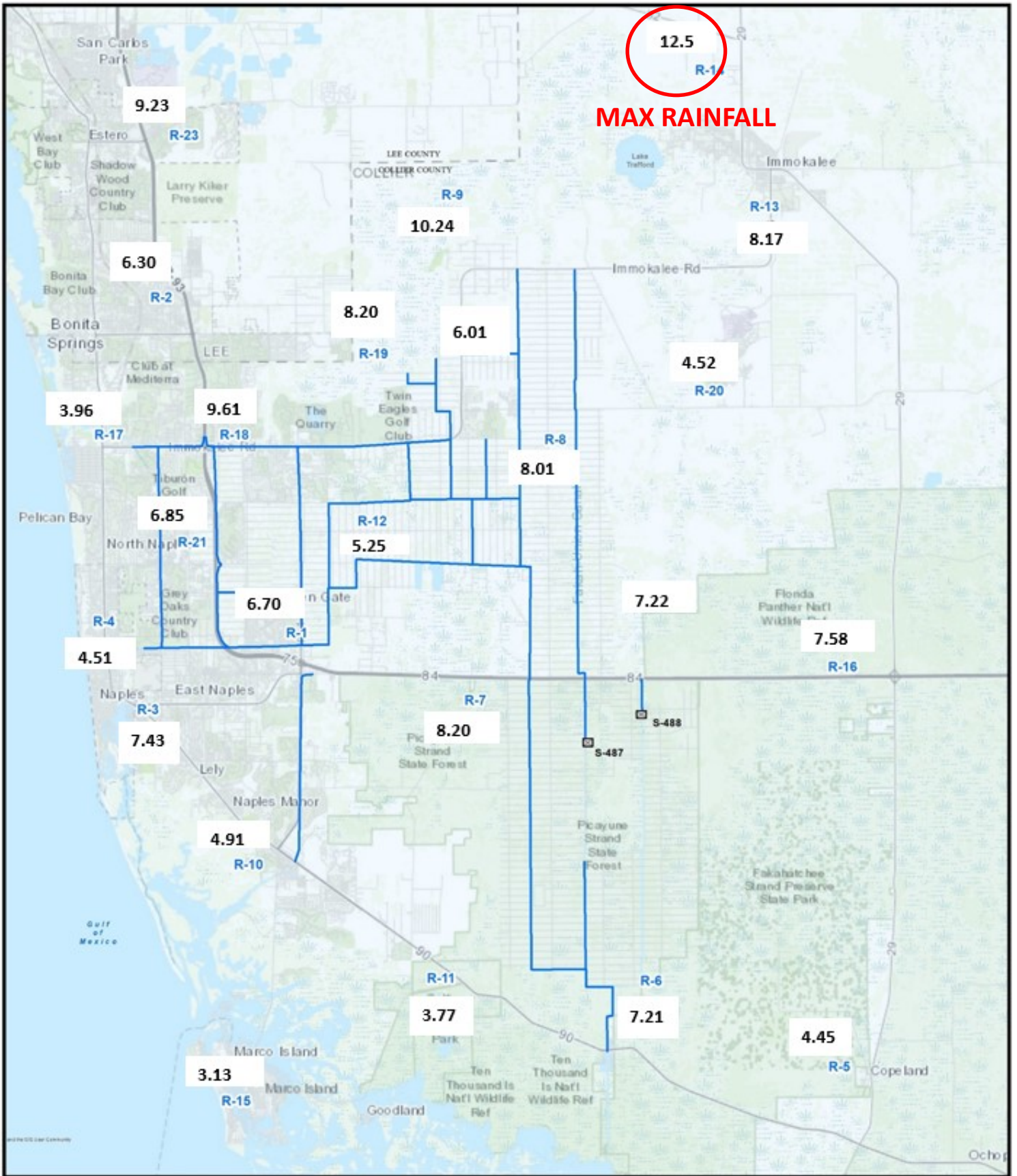


**FIGURE 2**  
**BCB GAUGE RAINFALL**  
**MONTHLY AVERAGES THROUGH JUNE 2023**



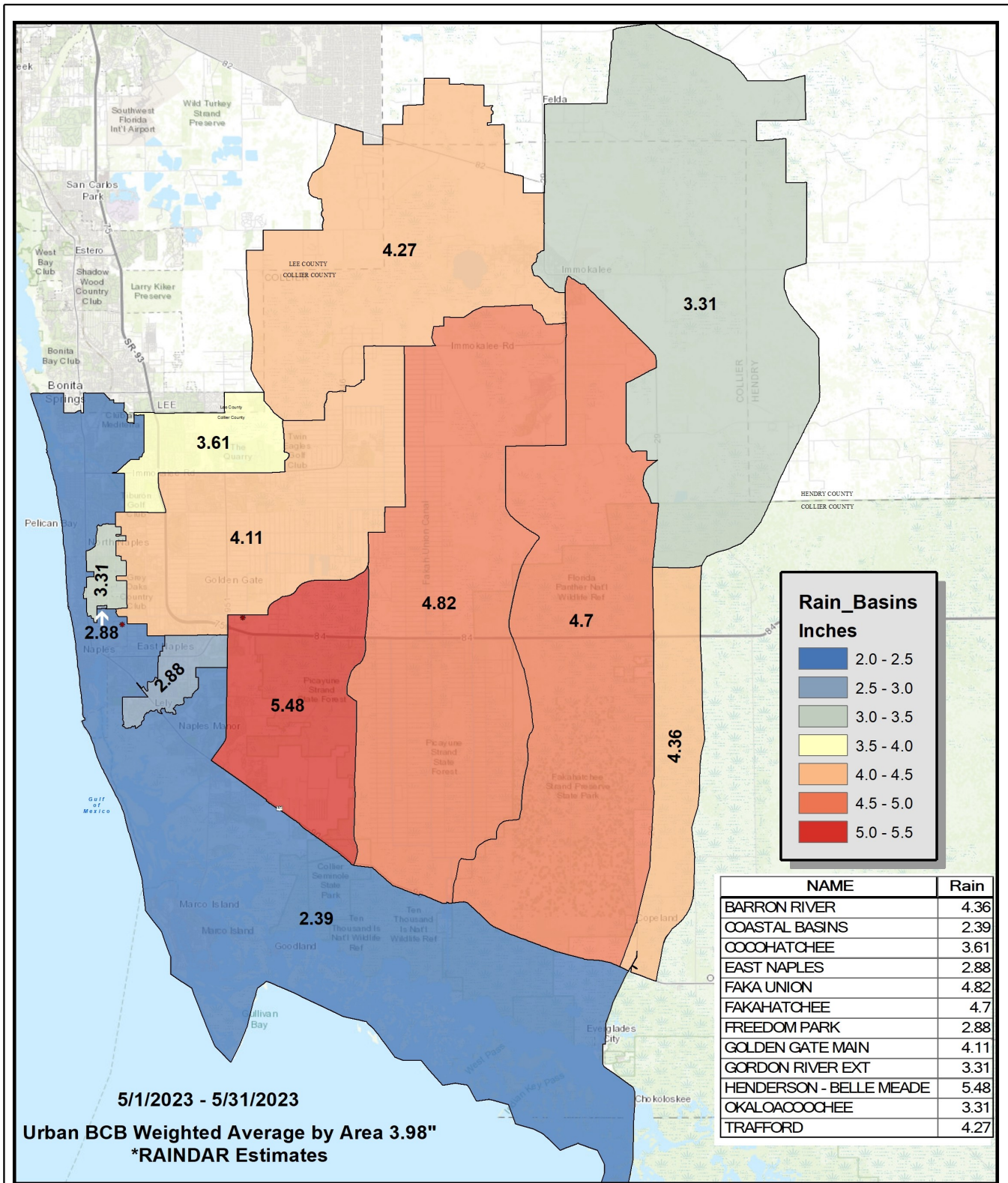


**FIGURE 3**  
**BCB RAINFALL DISTRIBUTION**  
**MAY 2023**



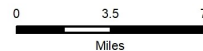
**FIGURE 3**  
**BCB RAINFALL DISTRIBUTION**  
**JUNE 2023**





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\*Rainfall estimates based on gauge adjusted radar



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**BCB RAINFALL  
SPATIAL DISTRIBUTION**

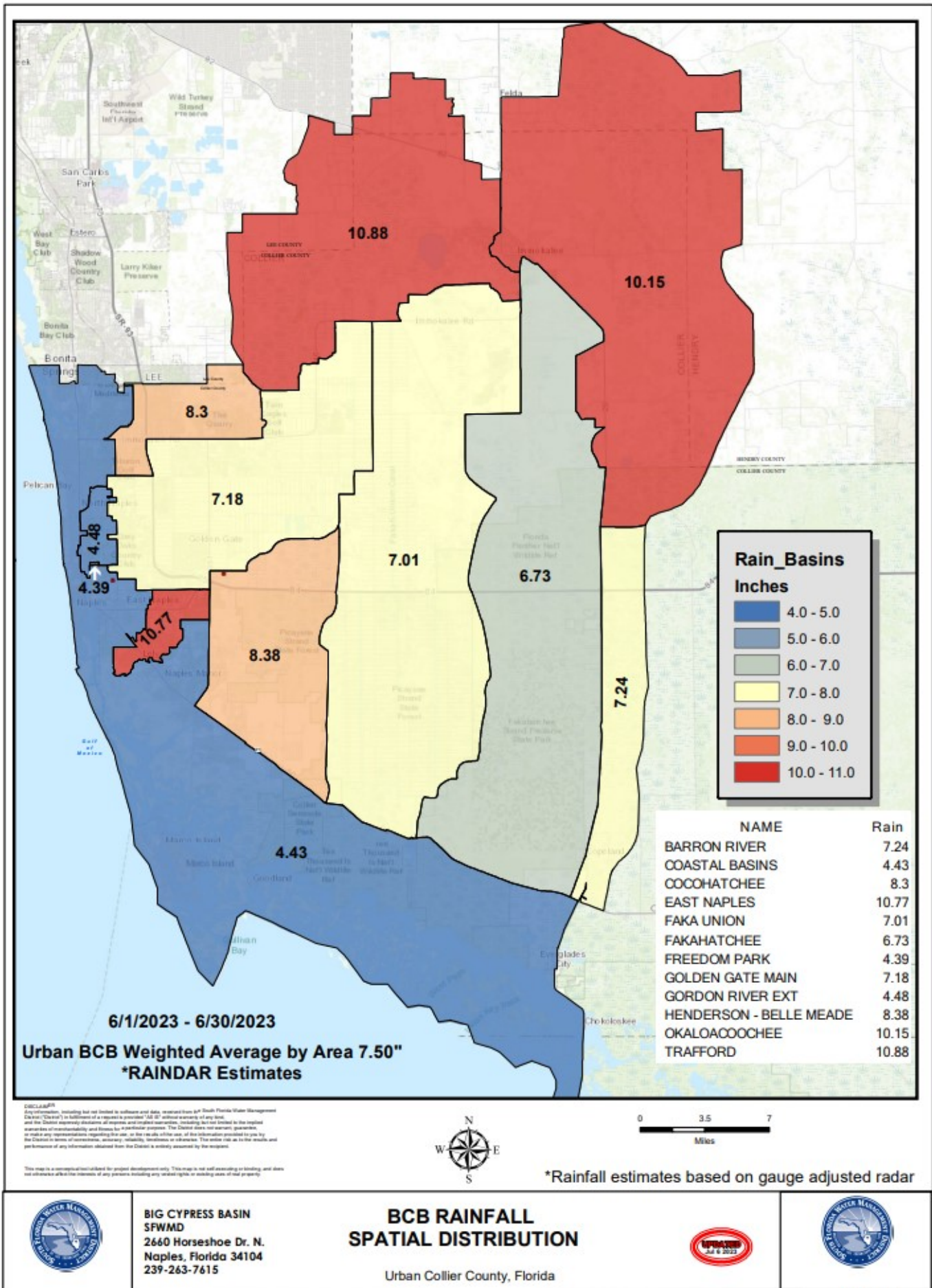
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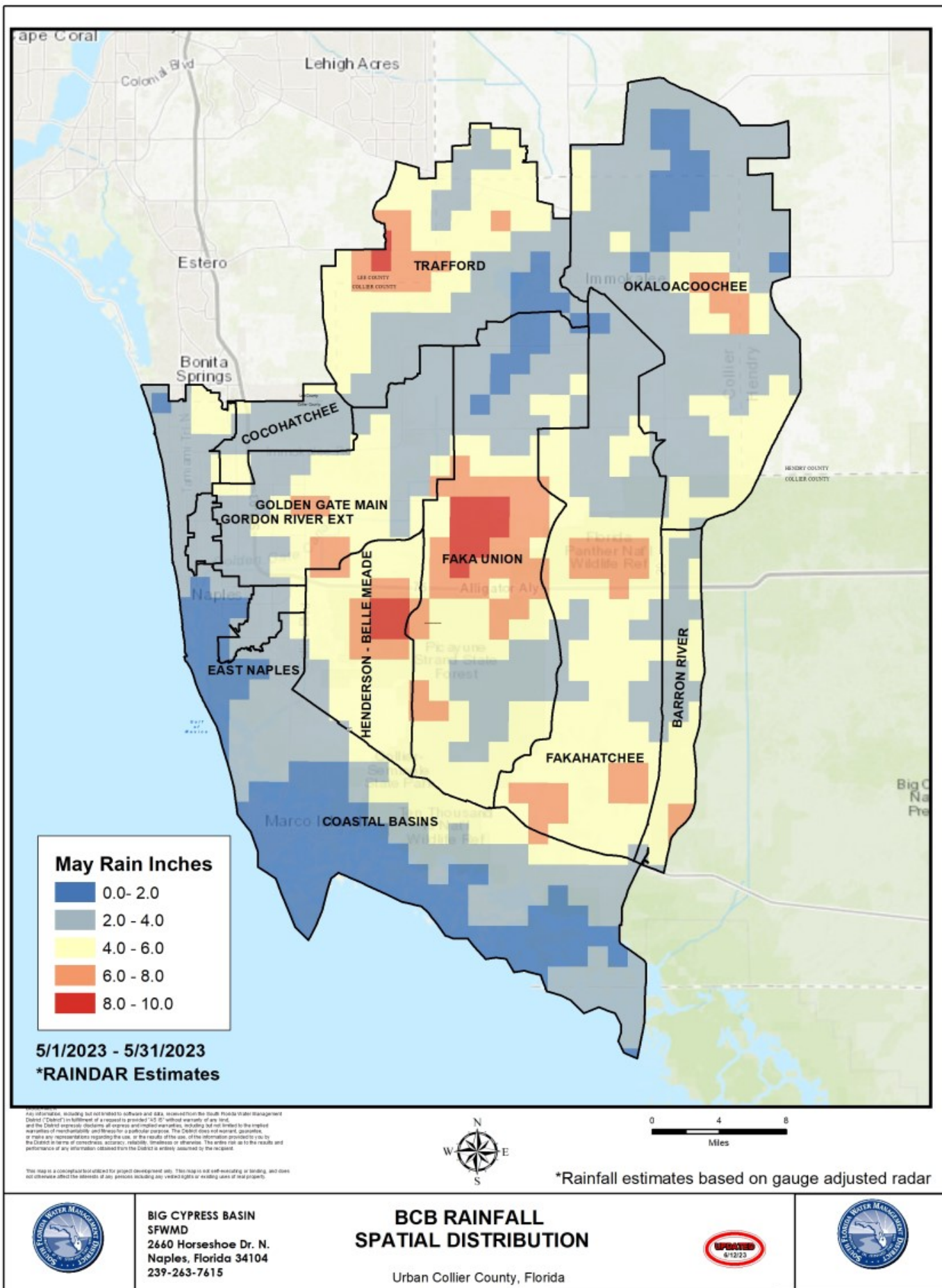
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**FIGURE 3a**



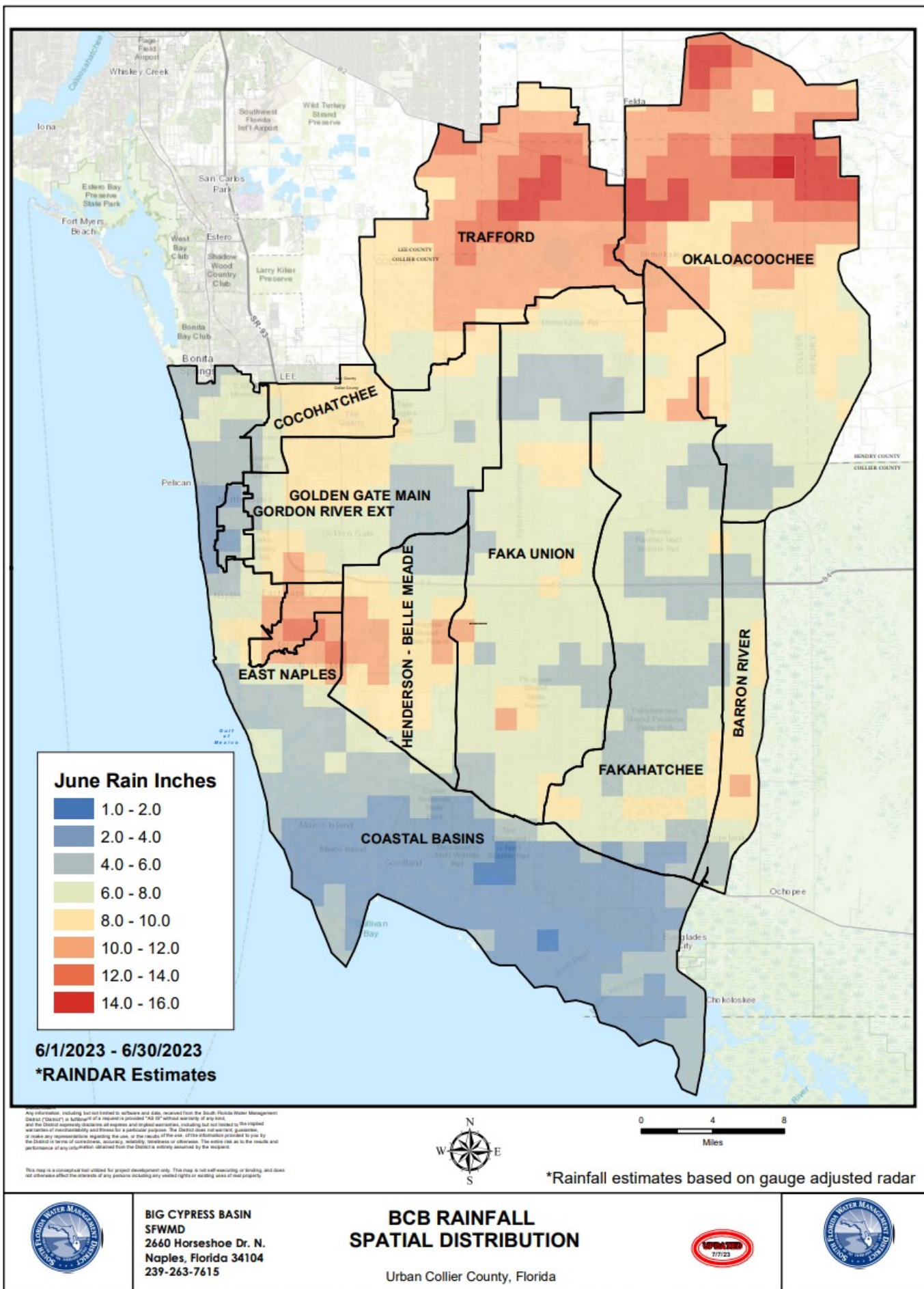


**FIGURE 3a**



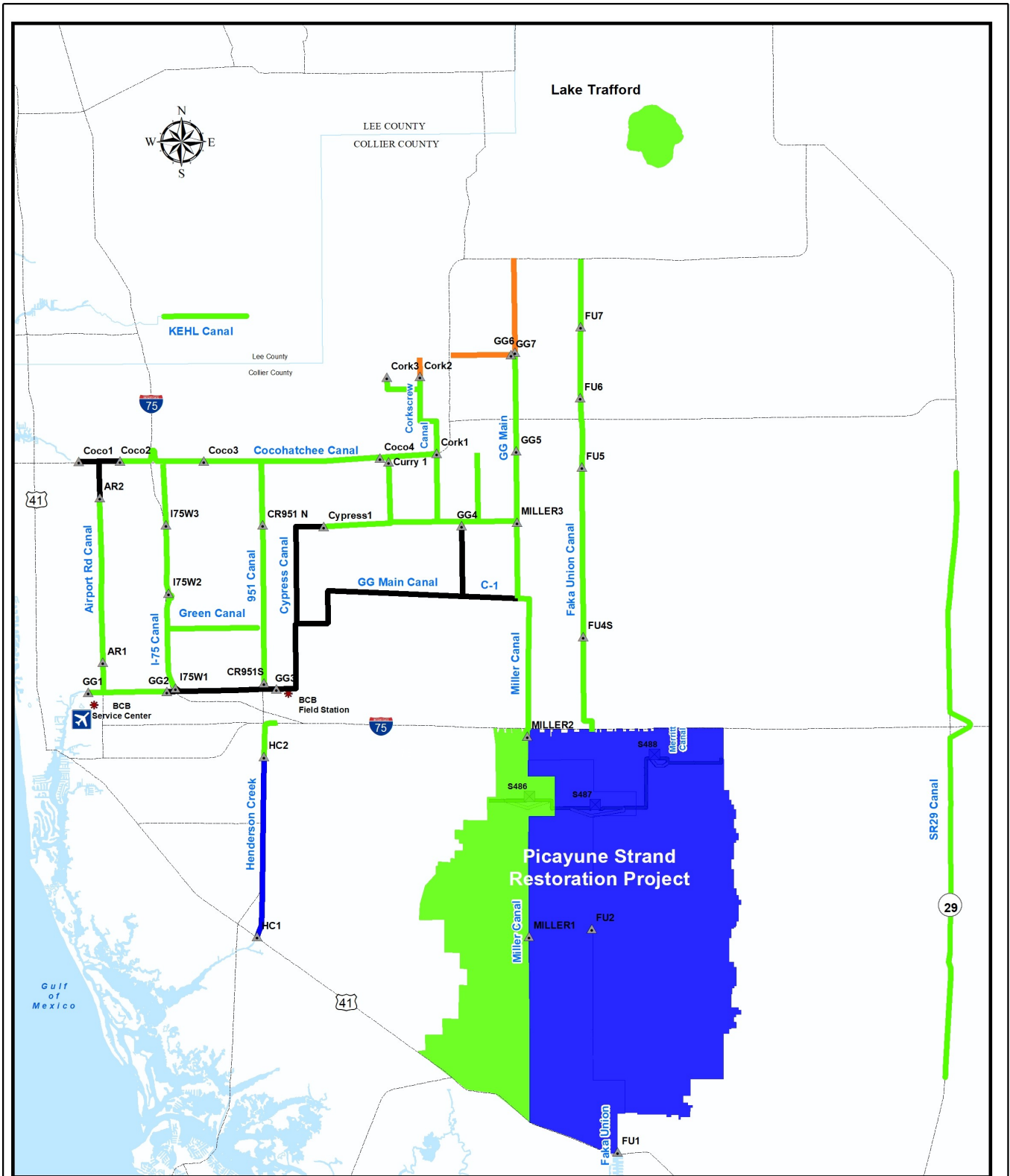
**FIGURE 4**





**FIGURE 4**





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\* Based on period of record for each canal reach



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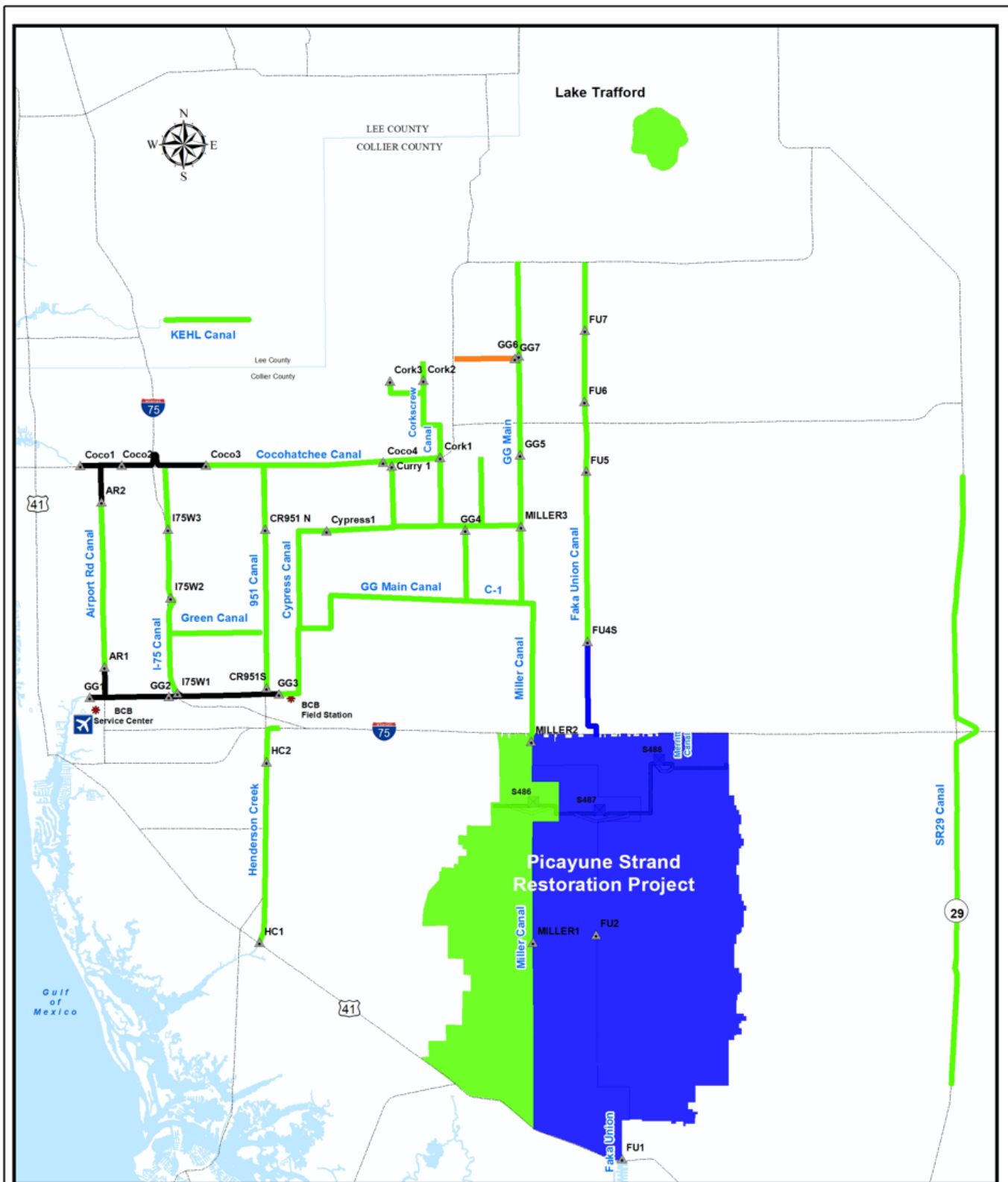
**BCB Conditions Index**  
 6/5/23

Urban Collier County, Florida

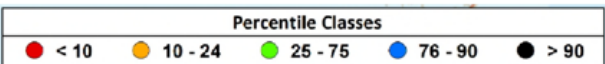


SFWMD\_FL\_NW\_6/5/23

**FIGURE 4A**



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\* Based on period of record for each canal reach

	<p><b>BIG CYPRESS BASIN</b>  <b>SFWMD</b>          2640 Horseshoe Dr. N.          Naples, Florida 34104          239-263-7615</p>	<p align="center"><b>BCB Conditions Index</b>  <b>7/7/23</b>          Urban Collier County, Florida</p>		
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**FIGURE 4A**

**Figure 5 Golden Gate Canal Historic Average Daily Headwater Percentiles**

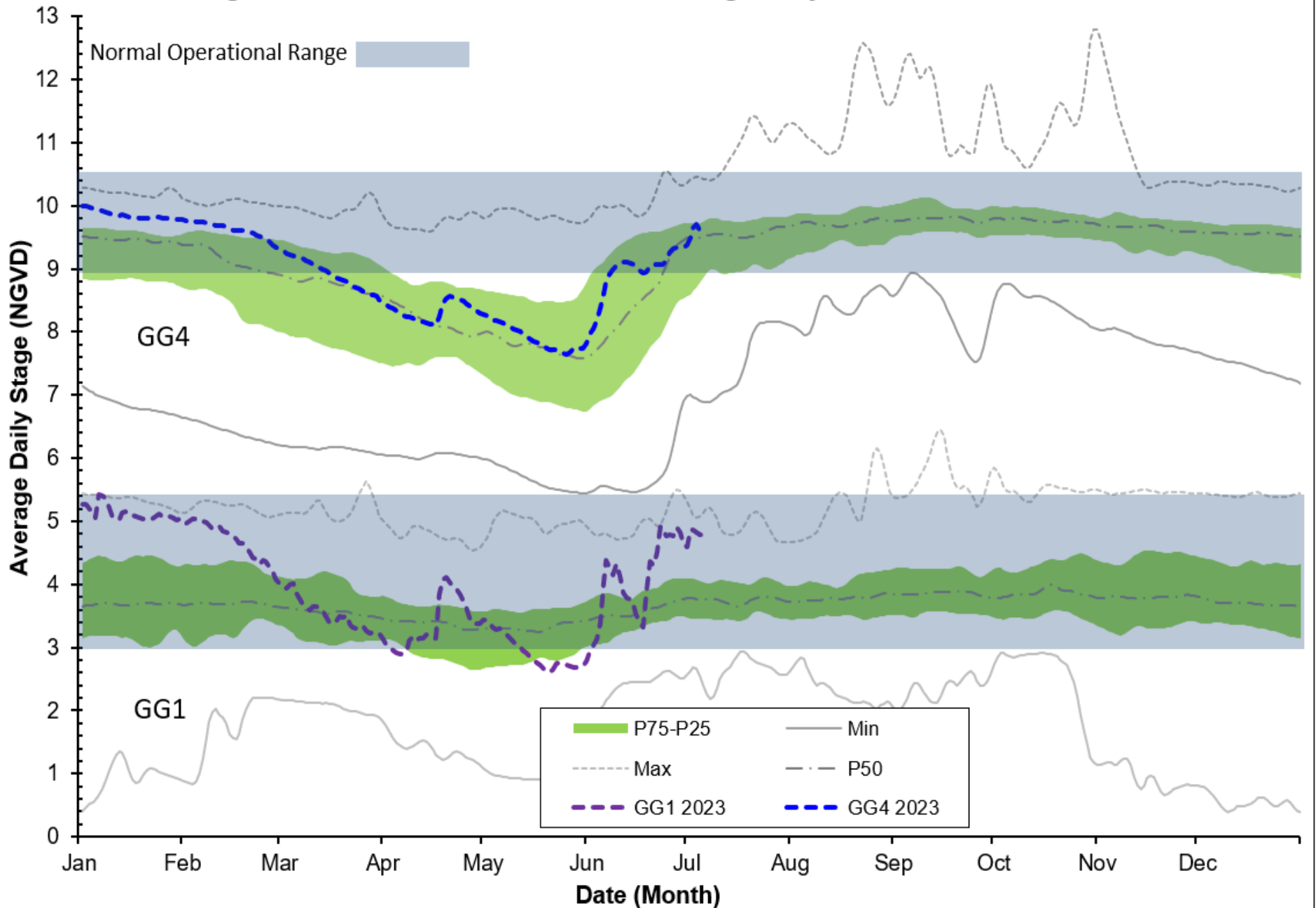
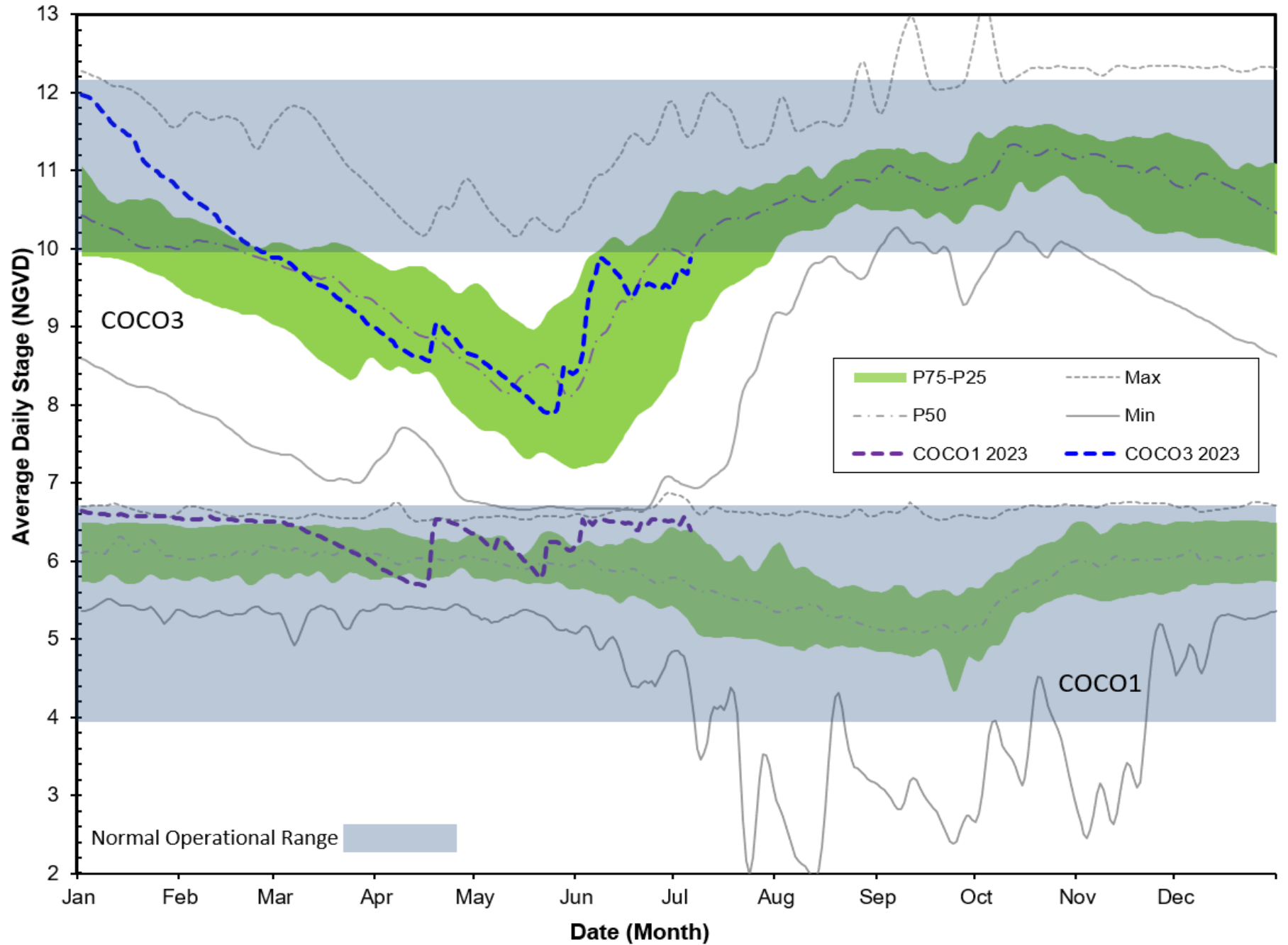
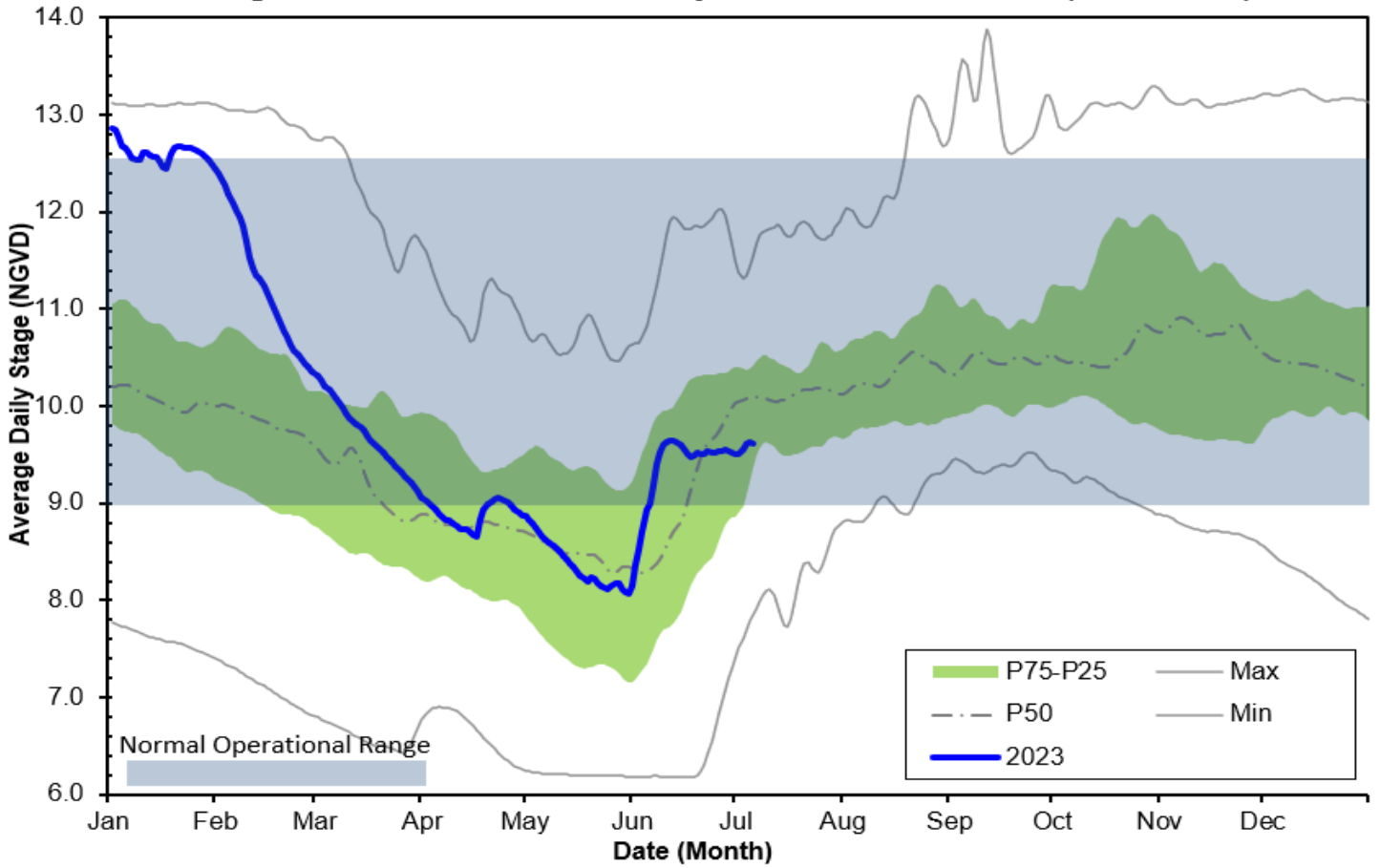




Figure 6A Cocohatchee Canal Historic Average Daily Headwater Percentiles



**Figure 6B - CORK1 Historic Daily Headwater Percentiles (1989 - 2022)**



**Figure 6C - CORK3 Historic Daily Headwater Percentiles (2004 - 2022)**

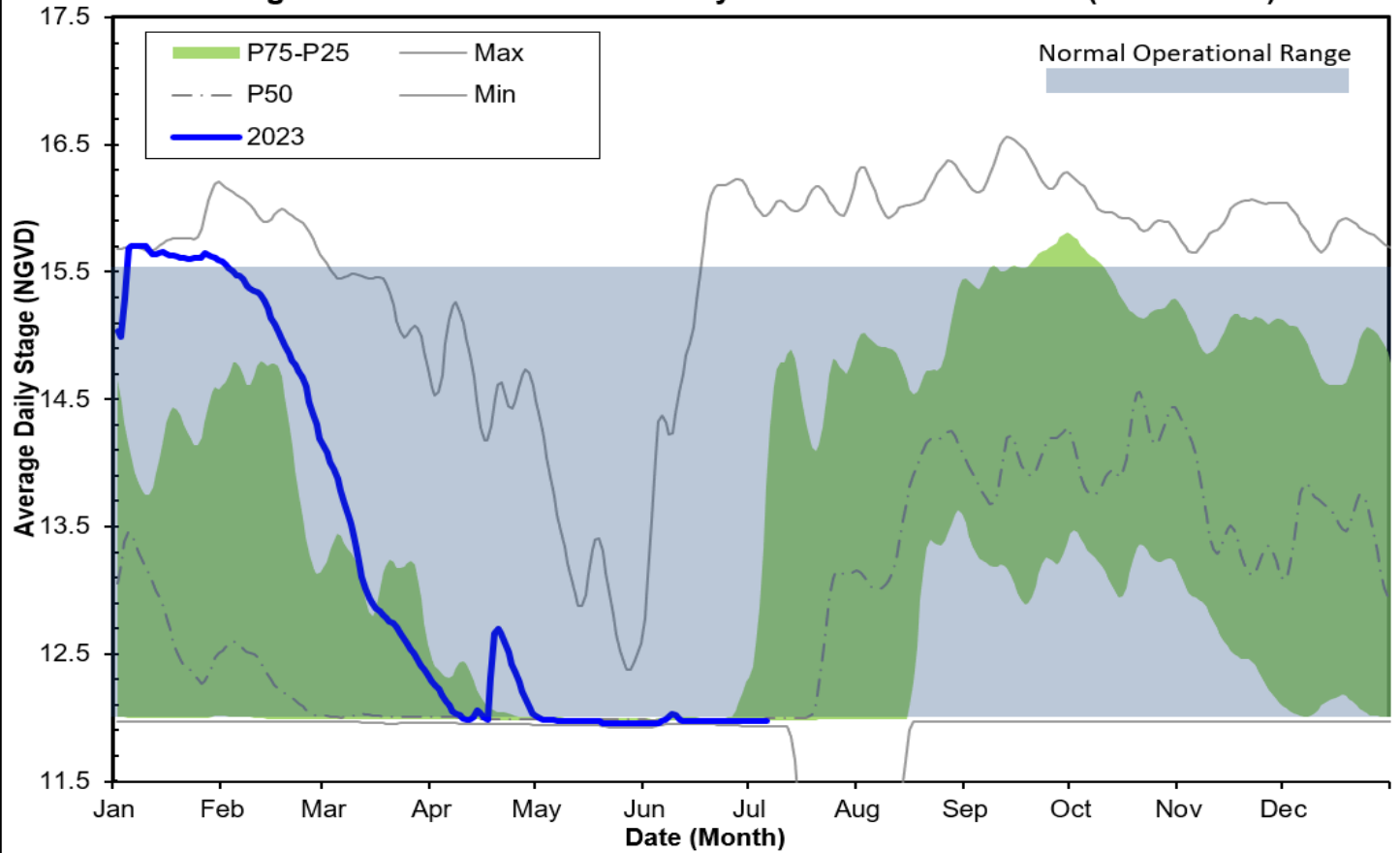


Figure 7A Faka Union Canal Historic Average Daily Headwater Percentiles

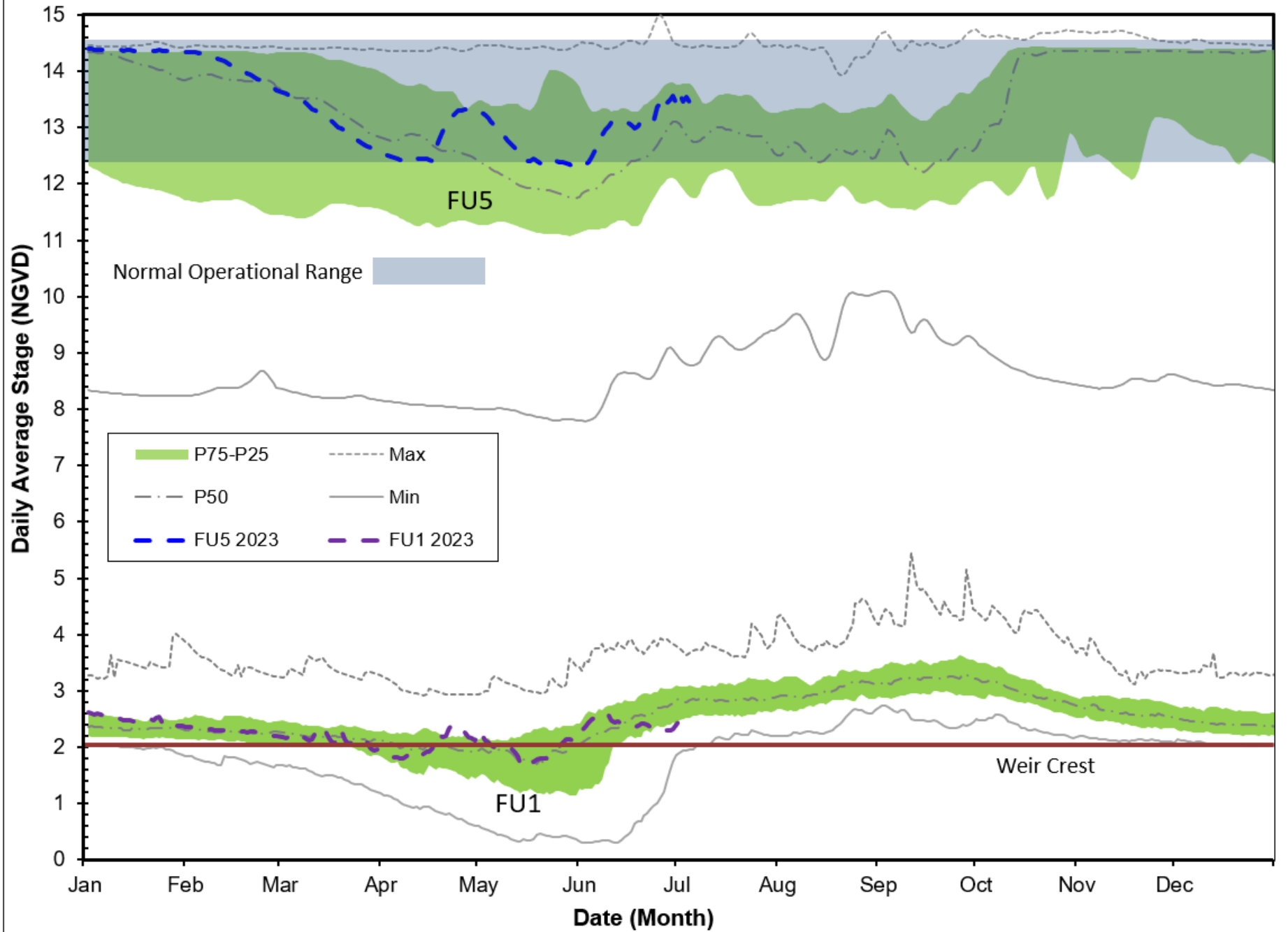




Figure 7B FU4S Historic Average Daily Water Percentiles

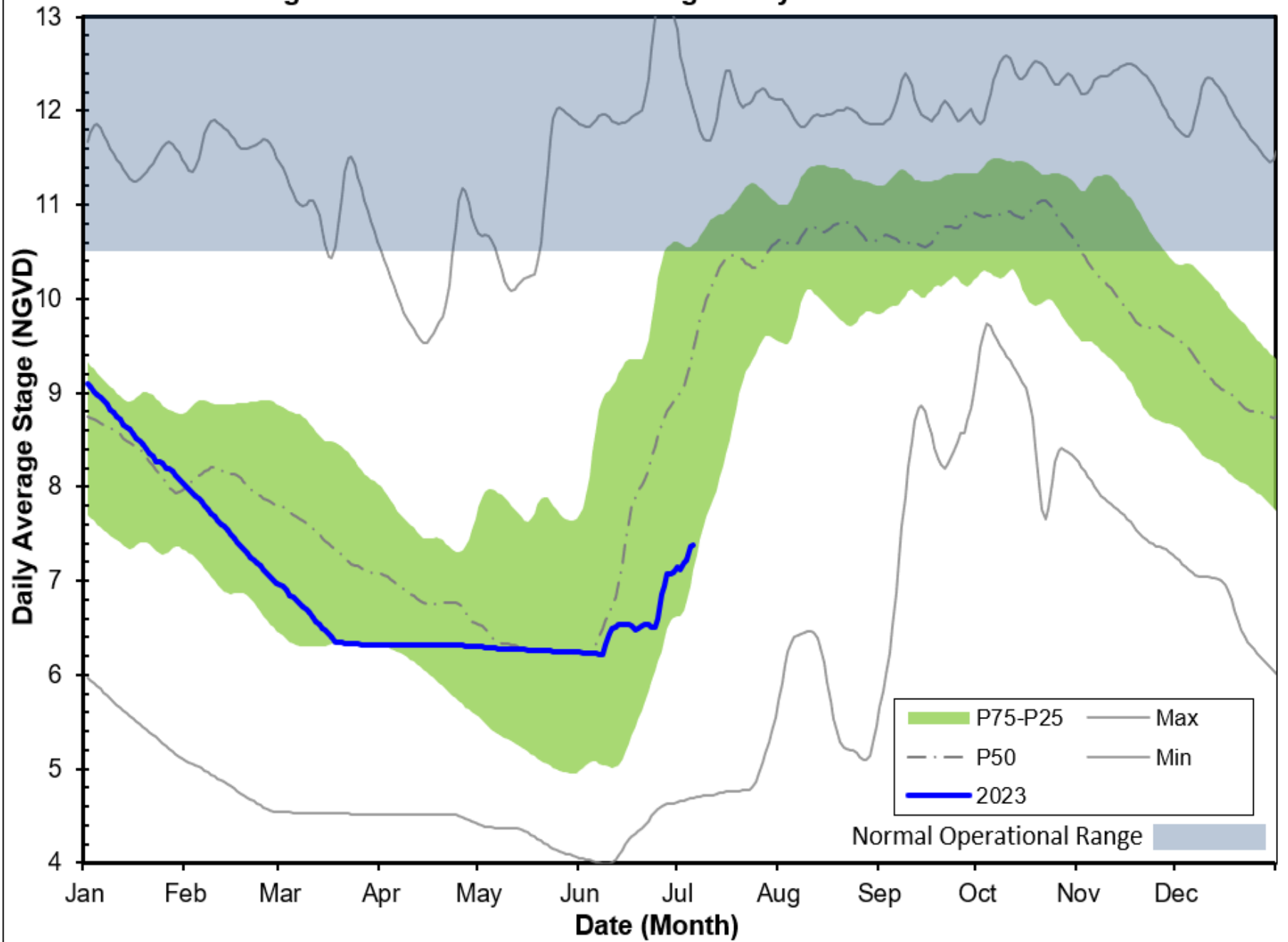


Figure 8A HC1 Historic Average Daily Headwater Percentiles

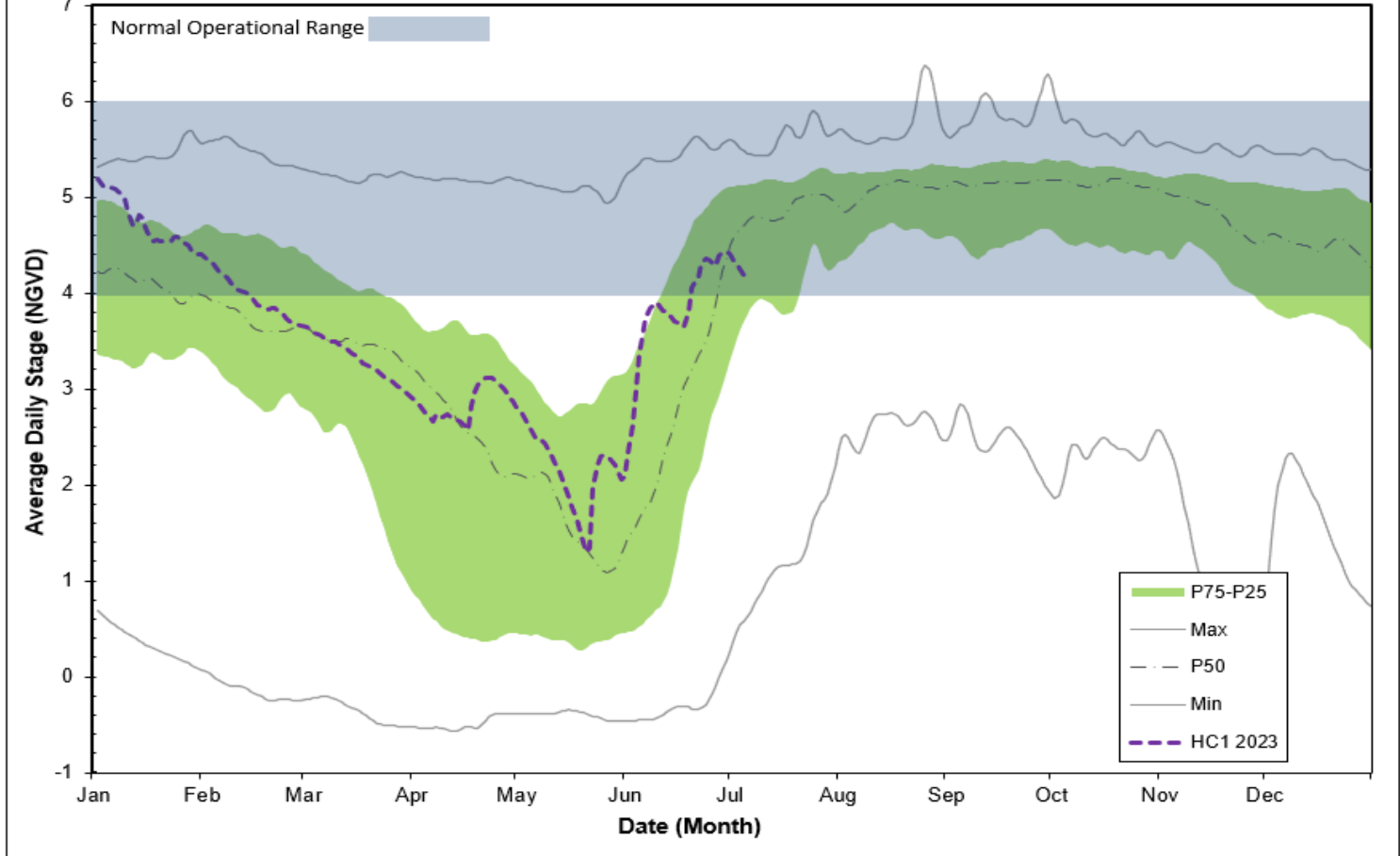
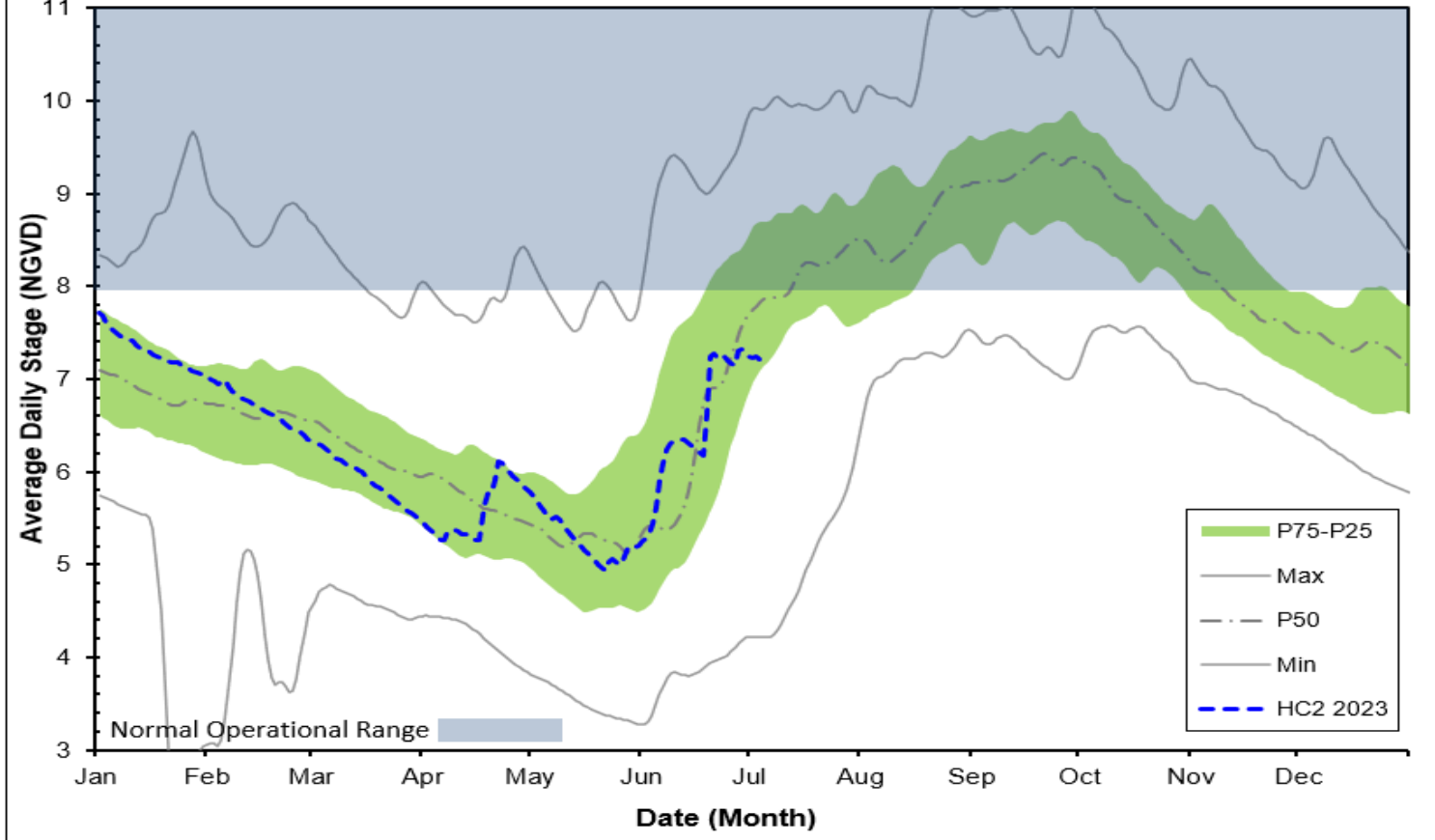


Figure 8B HC2 Historic Average Daily Headwater Percentiles





**WATER CONDITIONS SUMMARY - May 2023**  
**SELECTED STATIONS for BCB AREA / SW FLORIDA**

Last Reading Date :		June 5, 2023					
Previous Period Reading Date:		May 1, 2023					
STATION INDEX NO.	WELL LOCATION	WELL / AQUIFER - TYPE	CHANGE (from previous date)	PREVIOUS LEVEL	CURRENT LEVEL (ft)	DIRECTION OF CHANGE	CONCERN INDICATOR
ALL INDICATOR LEVELS SHOWN IN FT-NGVD							
C-462	Immokalee	Lower Tamiami Aquifer	-0.50	30.04	29.54	↓	GREEN
C-1004R	Naples	Lower Tamiami Aquifer	2.46	-0.17	2.29	↑	YELLOW
C-1224	Marco Lakes	Lower Tamiami Aquifer	0.35	1.41	1.76	↑	GREEN
C-948R	Golden Gate	Mid Hawthorn Aquifer	1.53	29.35	30.88	↑	
C-951R	Golden Gate	Lower Tamiami Aquifer	2.52	-0.60	1.92	↑	
L-2194	Bonita Springs	Sandstone Aquifer	1.41	-0.81	0.60	↑	YELLOW
L-2195	Bonita Springs	Surficial Aquifer System	0.96	7.81	8.77	↑	GREEN
L-738	Bonita Springs	Lower Tamiami Aquifer	-0.92	-4.25	-5.17	↓	YELLOW

**TABLE 2**  
**BCB WATER CONDITIONS SUMMARY**  
**MAY 2023**

**WATER CONDITIONS SUMMARY - June 2023**  
**SELECTED STATIONS for BCB AREA / SW FLORIDA**

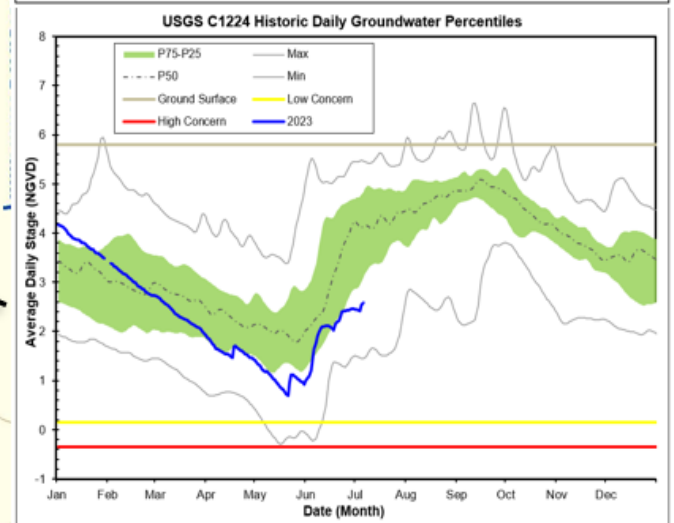
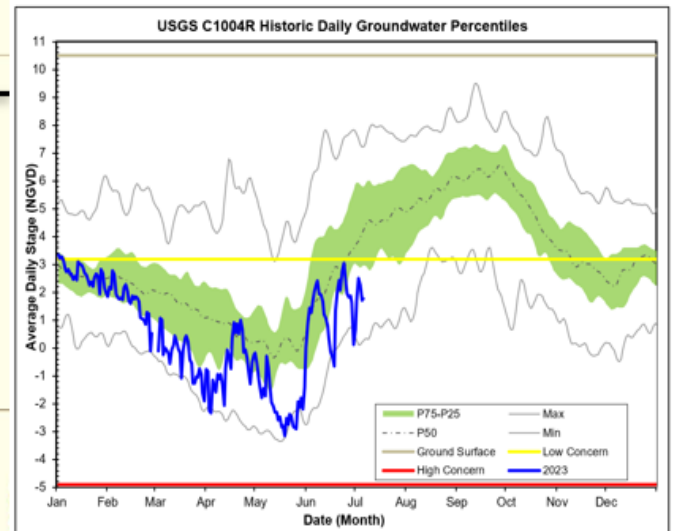
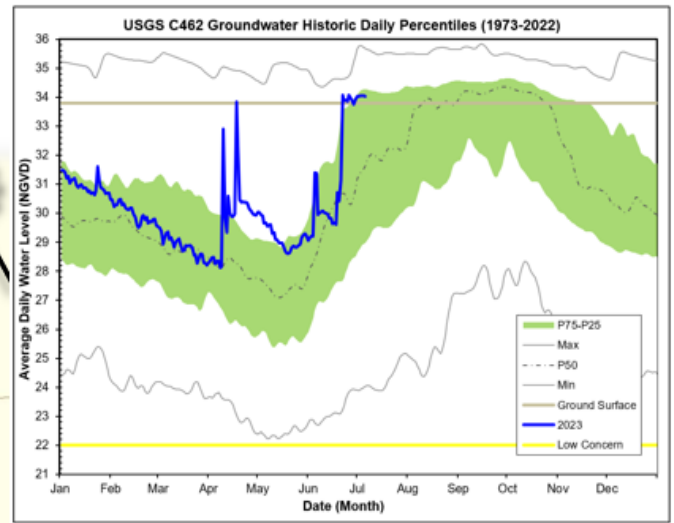
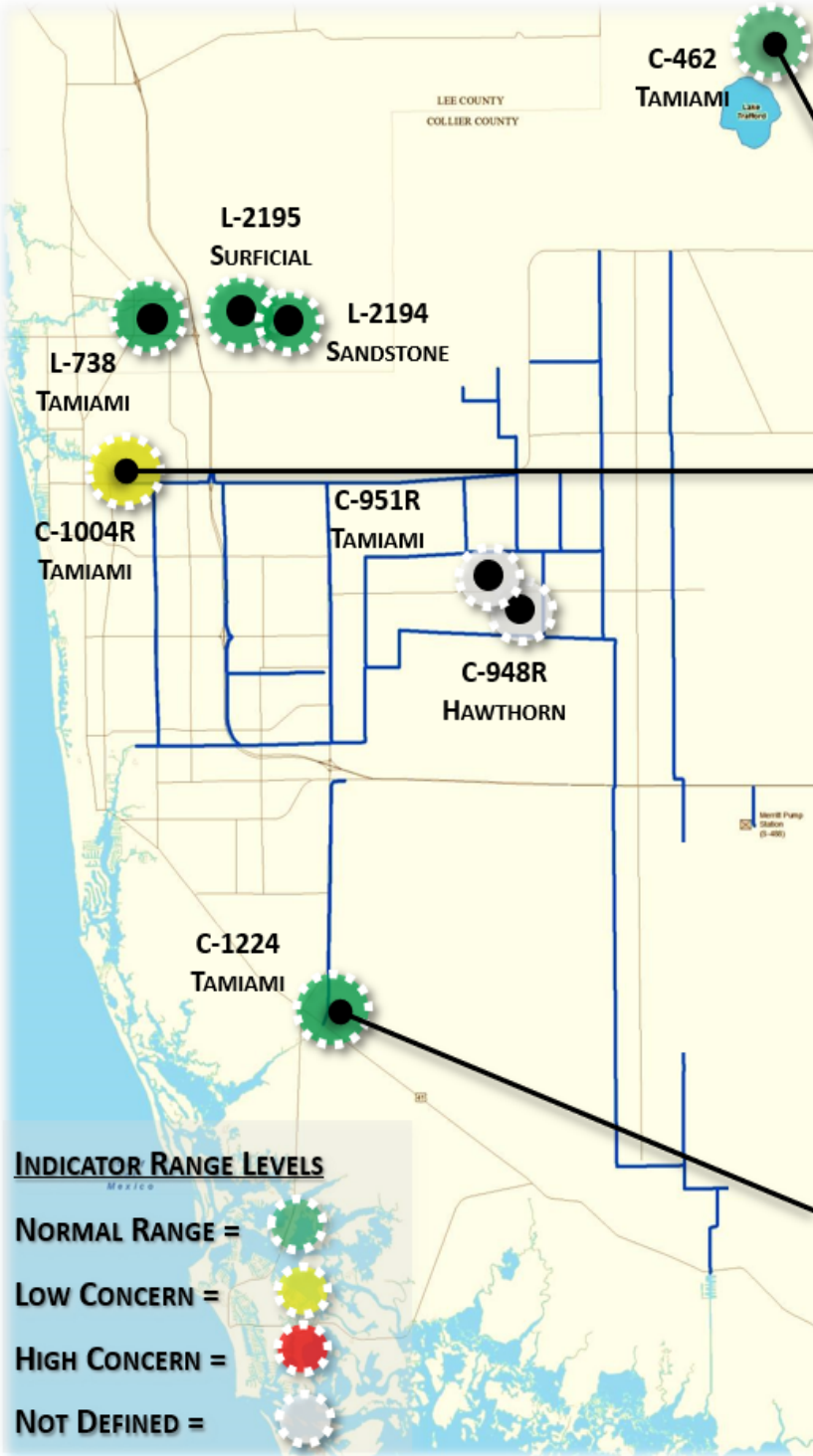
Last Reading Date :		July 5, 2023					
Previous Period Reading Date:		June 5, 2023					
STATION INDEX NO.	WELL LOCATION	WELL / AQUIFER - TYPE	CHANGE (from previous date)	PREVIOUS LEVEL	CURRENT LEVEL (ft)	DIRECTION OF CHANGE	CONCERN INDICATOR
ALL INDICATOR LEVELS SHOWN IN FT-NGVD							
C-462	Immokalee	Lower Tamiami Aquifer	4.51	29.54	34.05	↑	GREEN
C-1004R	Naples	Lower Tamiami Aquifer	0.21	2.29	2.50	↑	YELLOW
C-1224	Marco Lakes	Lower Tamiami Aquifer	0.67	1.76	2.43	↑	GREEN
C-948R	Golden Gate	Mid Hawthorn Aquifer	-0.29	30.88	30.59	↓	
C-951R	Golden Gate	Lower Tamiami Aquifer	0.56	1.92	2.48	↑	
L-2194	Bonita Springs	Sandstone Aquifer	1.83	0.60	2.43	↑	GREEN
L-2195	Bonita Springs	Surficial Aquifer System	0.60	8.77	9.37	↑	GREEN
L-738	Bonita Springs	Lower Tamiami Aquifer	3.58	-5.17	-1.59	↑	GREEN

**TABLE 2**  
**BCB WATER CONDITIONS SUMMARY**  
**JUNE 2023**

**BIG CYPRESS BASIN**

**MAY & JUNE 2023**

**GROUNDWATER LEVEL DAILY TRENDS COMPARED TO HISTORICAL AVERAGE**



**FIGURE 9**



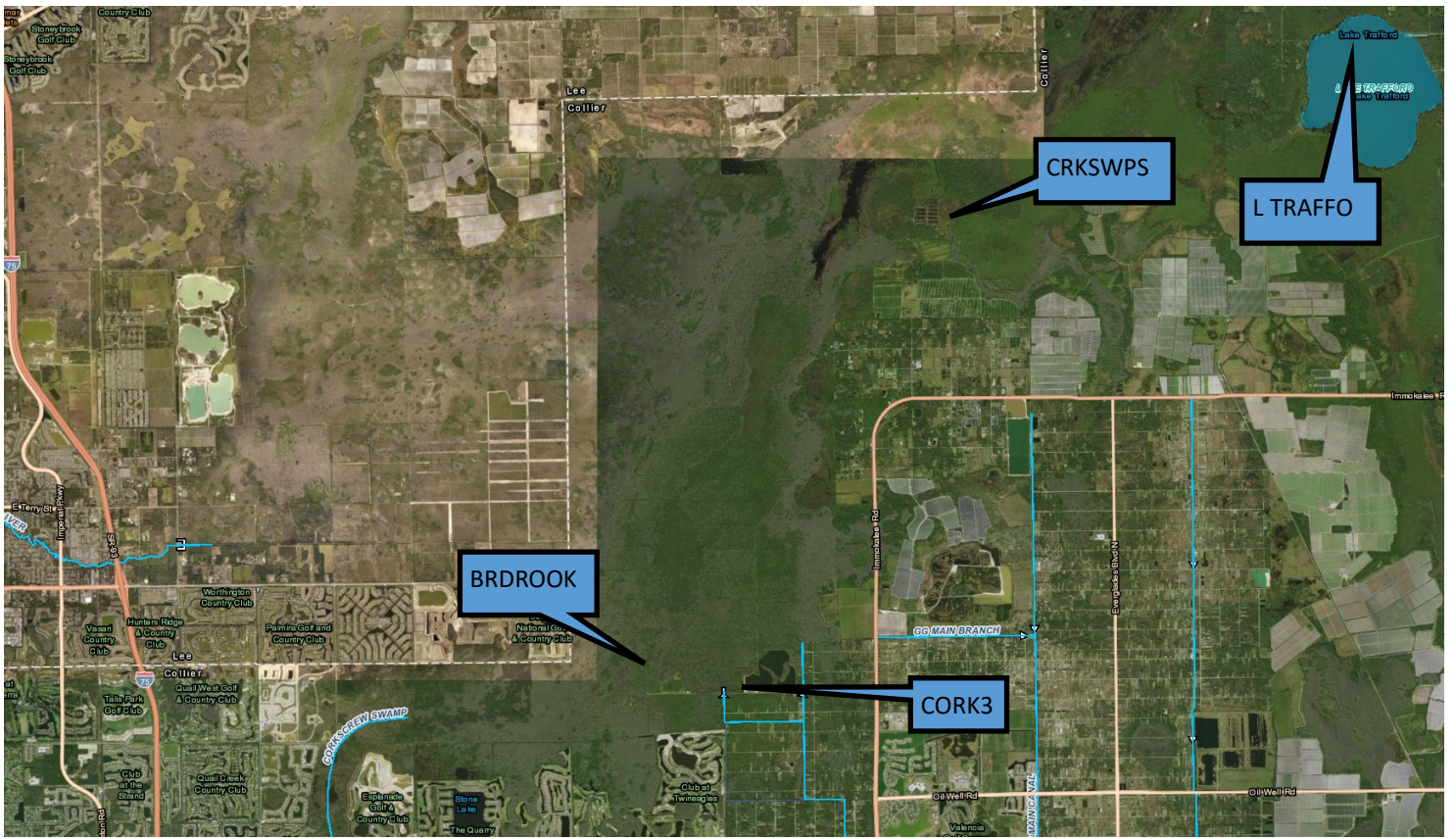


Figure 10-Corkscrew Historic Average Daily Headwater Percentiles(1984-2022)

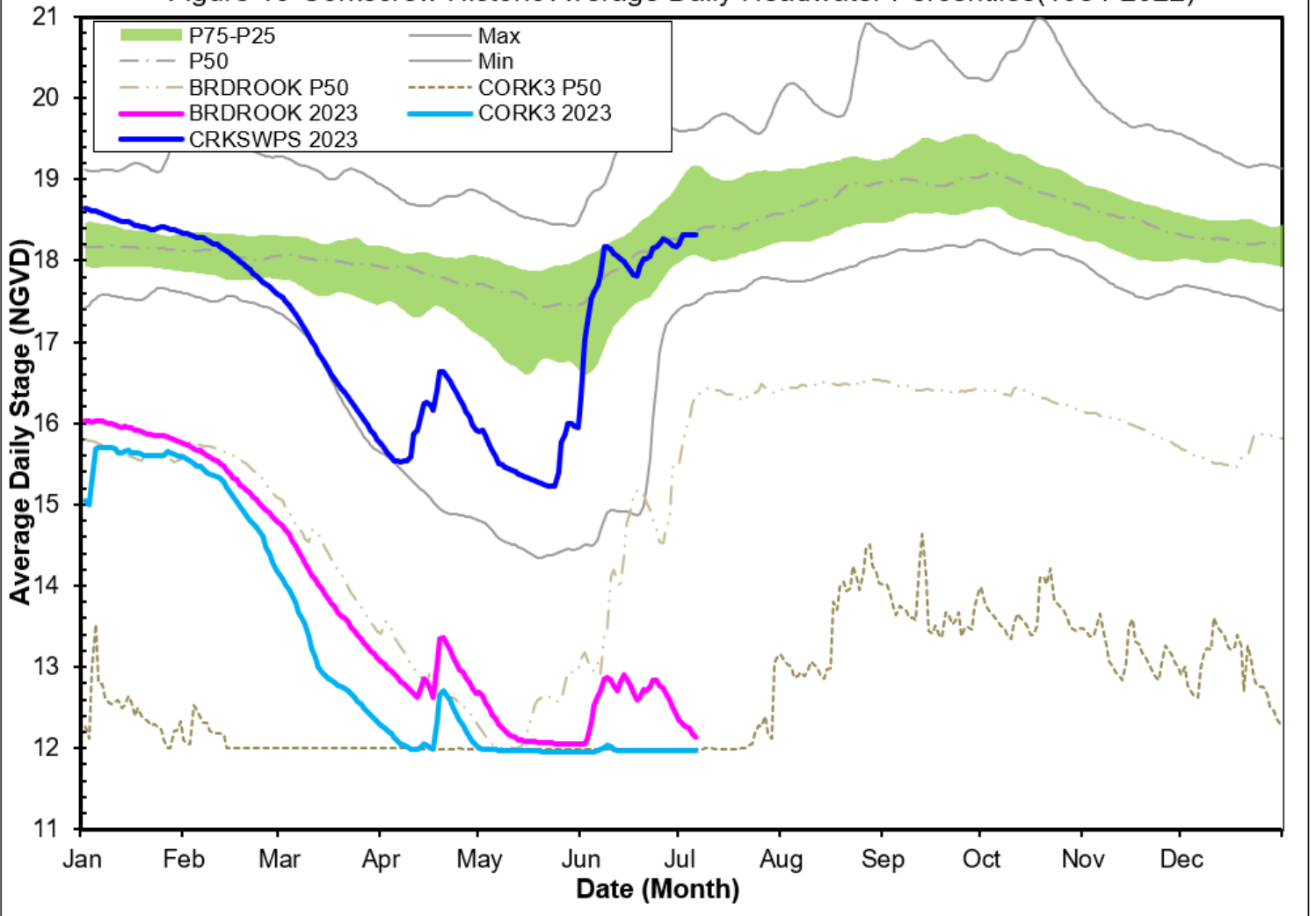


Figure 11 Lake Trafford Historic Daily Headwater Percentiles (1941 - 2022)

