South Florida Water Management District

BIG CYPRESS BASIN BOARD MEETING
AGENDA

April 26, 2024
11:00 AM
Collier County Government Center
Commission Chambers, 3rd Floor
3299 Tamiami Trail East
Naples, FL 34112

Zoom Registration Link: https://sfwmd.link/41d30gO

FINAL

1. Call to Order - Charlette Roman, Chair, Big Cypress Basin Board
2. Pledge of Allegiance
3. Agenda Revisions - Lisa Koehler
4. Agenda Item Abstentions by Board Members
5. Consider Approval of the Minutes of the February 23, 2024 Meeting
6. Basin Administrator's Report - Lisa Koehler
7. General Public Comment
8. Capital Project Update for the Communications Tower (Staff contact, Brad Jackson)
9. Overview of Basin Land Management Projects (Staff contact, Rory Feeney and Ryan Brown)
10. Adapting to Future Rainfall Projections in South Florida (Staff contact, Ana Carolina Coelho Maran, Ph.D., P.E.)

11. Board Comment

Technical Reports

12. Field Station Activity Report - Andrew Wolf

13. Water Conditions Report - Brad Jackson

Staff Reports

14. Monthly Financial Report - Candida Heater

15. General Public Comment

16. Board Comment

17. Adjourn

Draft Presentations:

Agenda Item Background:

08 - Capital Update Communications Tower
09 - Basin Land Management Projects
10 - BCB Rainfall Projections
12 - Field Station Report
13 - Water Conditions Report

DRAFT

Big Cypress Basin Board Meeting
Capital Project Update
Communications Tower

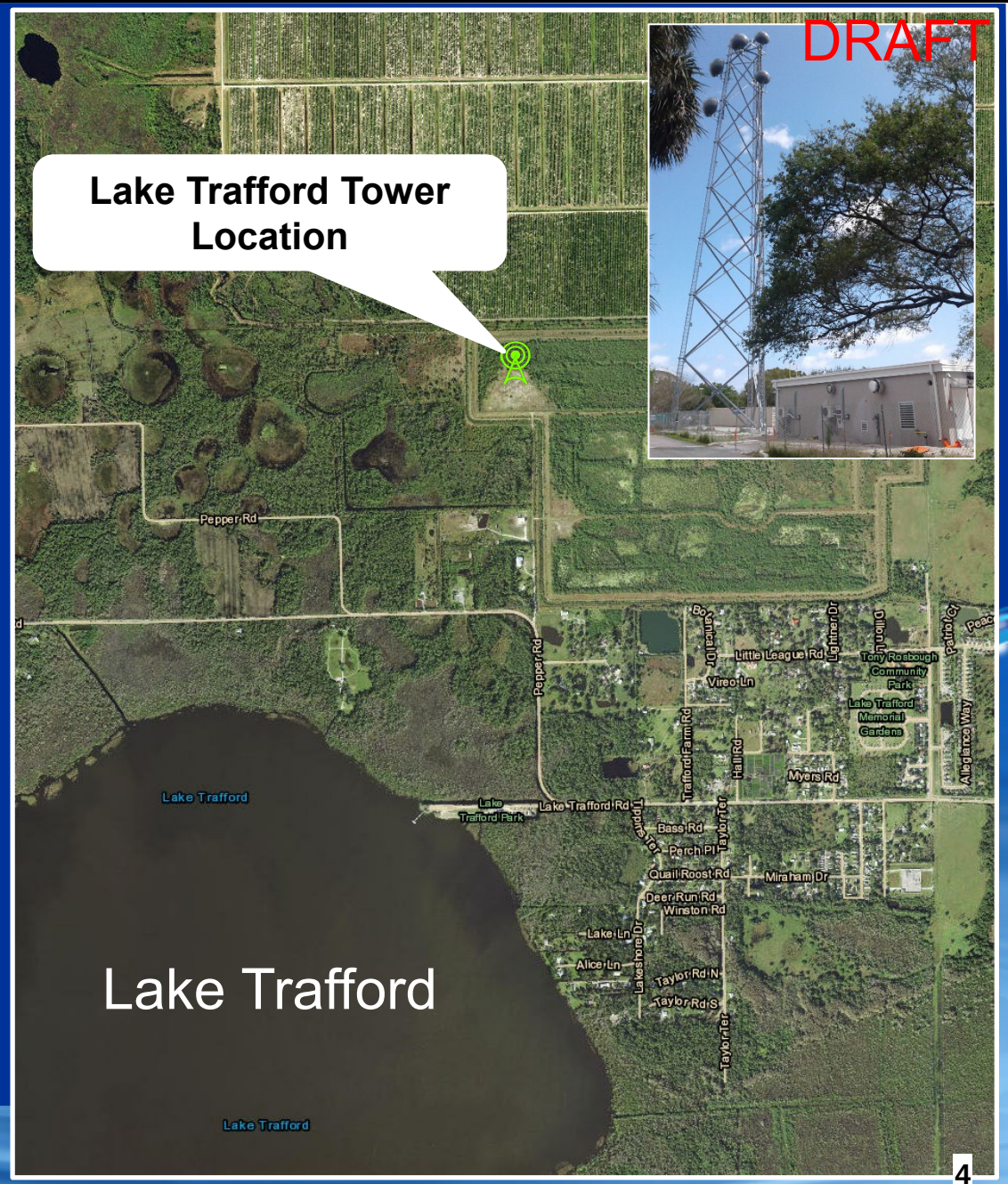
April 26, 2024



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

Communication System Improvements (Tower)

- BCB Flood Control Communication Tower
  - Increases resiliency
  - Eliminate cellular dependance
  - Connects to existing SFWMD microwave network
  - Ensures continuous flood control operations
  - Complies with US Fish and Wildlife Service (USFWS) recommended best practices
    - No guy wires
    - FAA approved lighting with minimum intensity
    - Motion activated lights on building
    - Pre-construction wildlife survey
    - Groundbreaking outside peak bird nesting season



Presenter: Brad Jackson

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Milestones & Next Steps

- Final design complete – spring 2024
- Construction plans and specifications – complete
- Next steps
  - Advertise for construction bids – July 2024
  - Construction contract SFWMD governing board – September 2024
  - Construction – fall 2024 to fall 2026
  - Final IT completion – winter 2026/27
- Current cost estimate ~$8.5M
- Funded over several fiscal years (FY23 – FY27)



Presenter: Brad Jackson

DRAFT

Questions?



Future Lake Trafford Tower Location

Presenter: Brad Jackson

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Overview of Basin Land Management Projects

Rory Feeney
Land Resources Bureau Chief
Big Cypress Basin Board Meeting
April 26, 2024



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Discussion Outline

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- Big Cypress Basin and Land Resources Bureau Support
- Picayune Strand Restoration Project
- Corkscrew Regional Ecosystem Watershed
- Construction Updates
- Vegetation Management Updates
- Python Management and Research Efforts

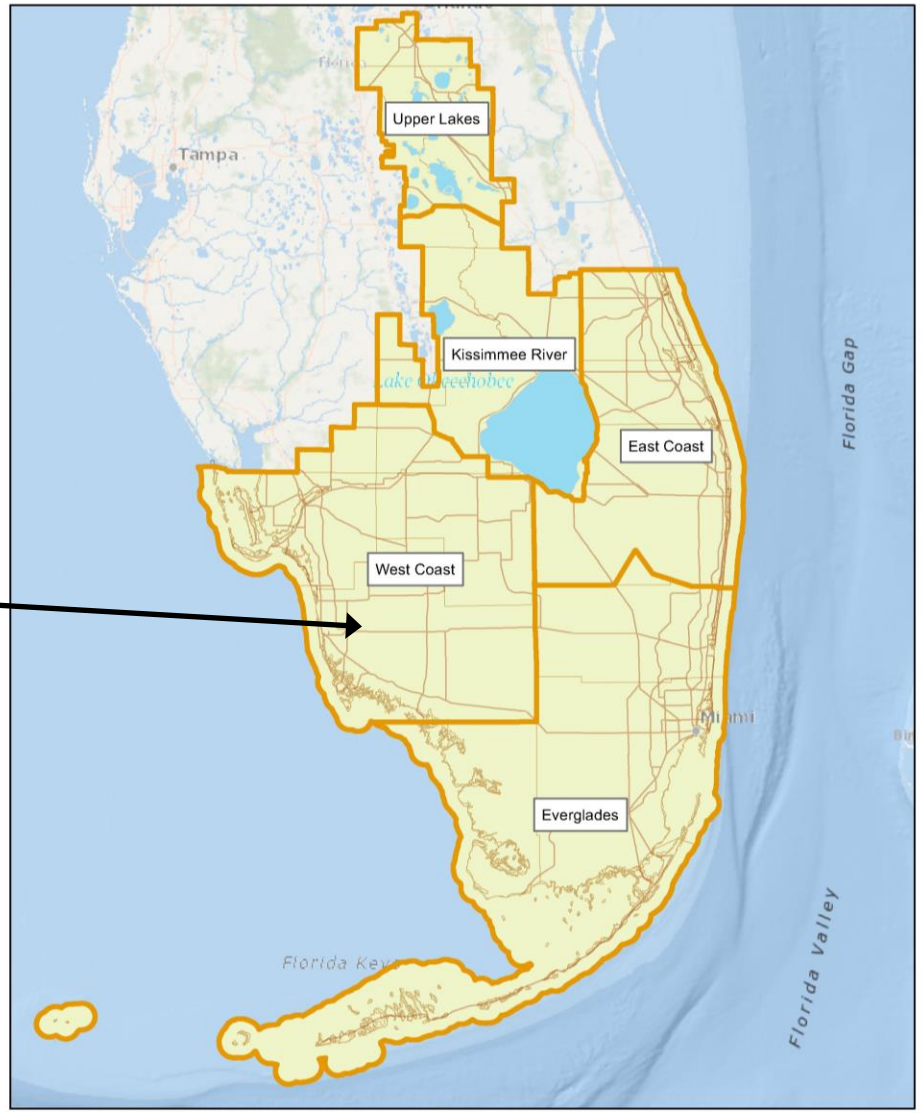
- Tree Management Program Overview – Ryan Brown

Land Resources Area of Responsibility

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- 82,879 acres of land
- 139.6 miles of canals





Land Resources Management Regions

Picayune Strand Restoration Project – Vegetation Management

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- Restore over 55,000 acres of native Florida wetlands and uplands
- Habitat for panther, black bear, bald eagle, wood stork and red cockaded woodpecker
- Brazilian pepper is the most dominant invasive species
  - Occupies ~14,000 acres
  - 25% of restoration footprint



Brazilian pepper thicket

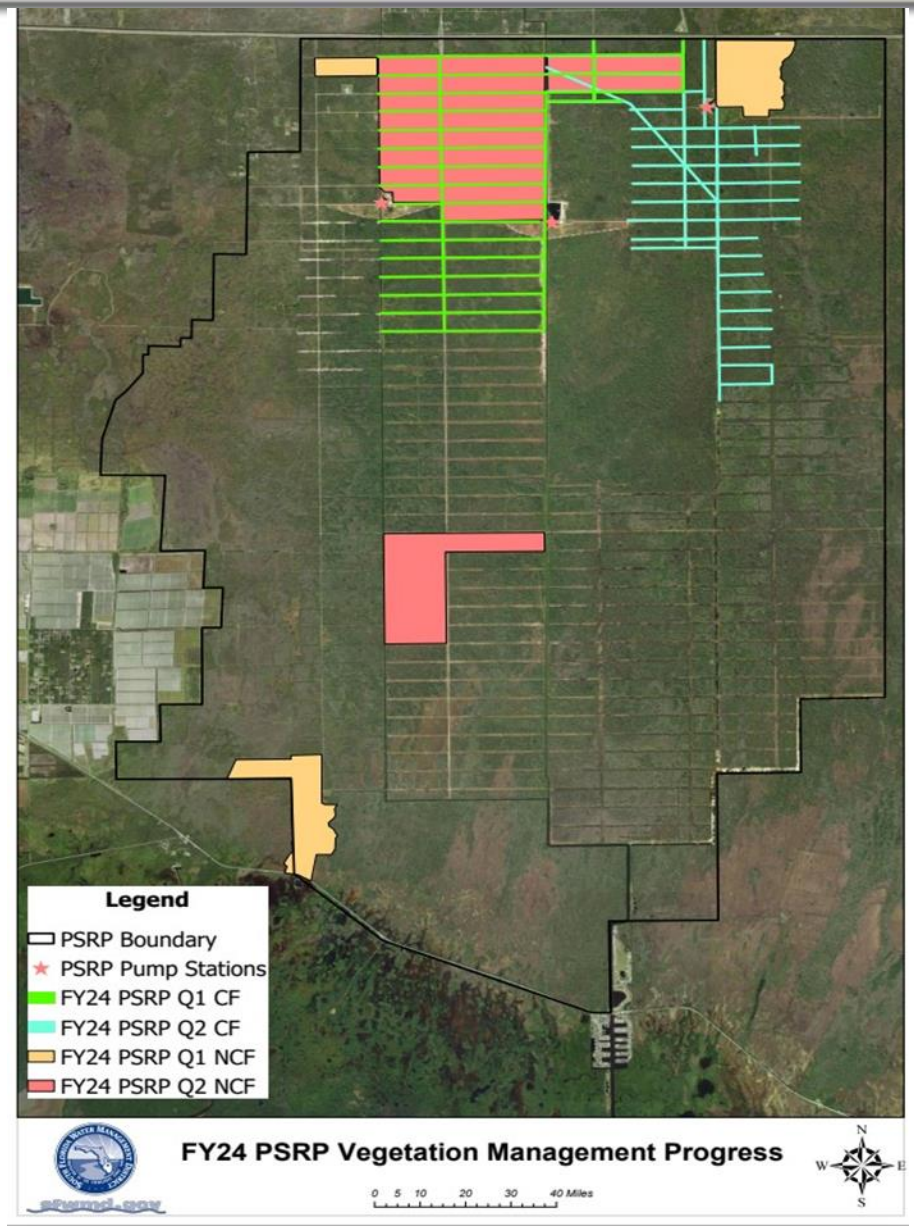


Vegetation recovery in construction footprint

Picayune Strand Restoration Project – Vegetation Management

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Table 1: FY24 Actual and Planned Acreage and Cost Estimates for Invasive Species Management within the PSRP				
Activity	Completed to Date		Planned for Fiscal Year 2024	
	Area/Distance Covered	Expenditure	Area/Distance Covered	Expenditure
Construction Footprint (acres)	2,223	$282,041	5,000	$4,416,057
Non-Construction Footprint (acres)	5,383	$2,266,970	9,500	

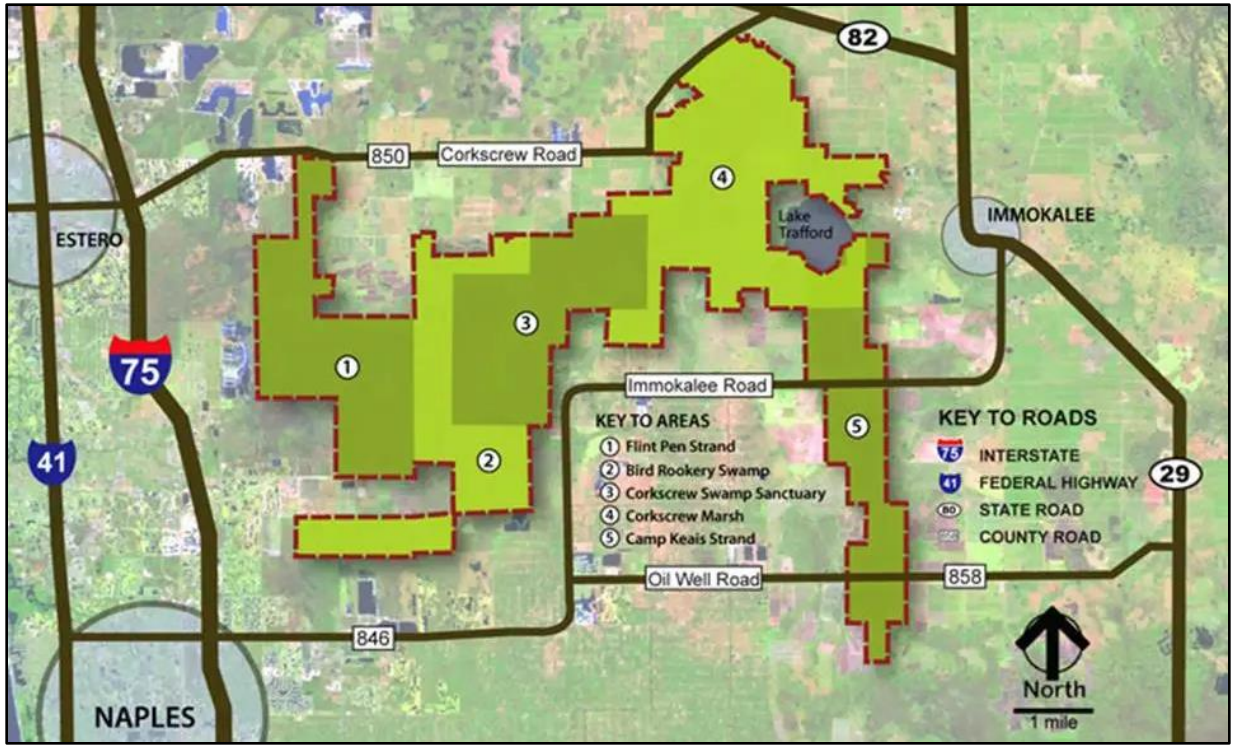


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Corkscrew Regional Ecosystem Watershed

- The Corkscrew Regional Ecosystem Watershed (CREW) located in both Lee and Collier counties spans across 60,000 acres and provides natural flood protection, water purification and critical aquifer recharge
- District manages is approximately 27,879 acres
- Provides many public nature-based recreational opportunities.





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CREW Partnerships

- Partnerships with the District to expand recreation opportunities and assist with management:
  - CREW Land & Water Trust
    - Provide environmental education, outreach, guided tours, public use facility maintenance, volunteer coordination, and land management support.
  - Florida Fish and Wildlife Conservation Commission (FWC)
    - Coordinate and manage public use including hunting and its regulations.
    - Provide wildlife and land management assistance and enforcement of rules and regulations.





CREW Public Use and Recreation

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- Wide range of compatible nature-based activities allowed on CREW including:
  - Hiking, Biking
  - Hunting & fishing
  - Horseback riding
  - Camping
  - Wildlife viewing
  - Environmental education
  - On average over 50k people visit CREW annually





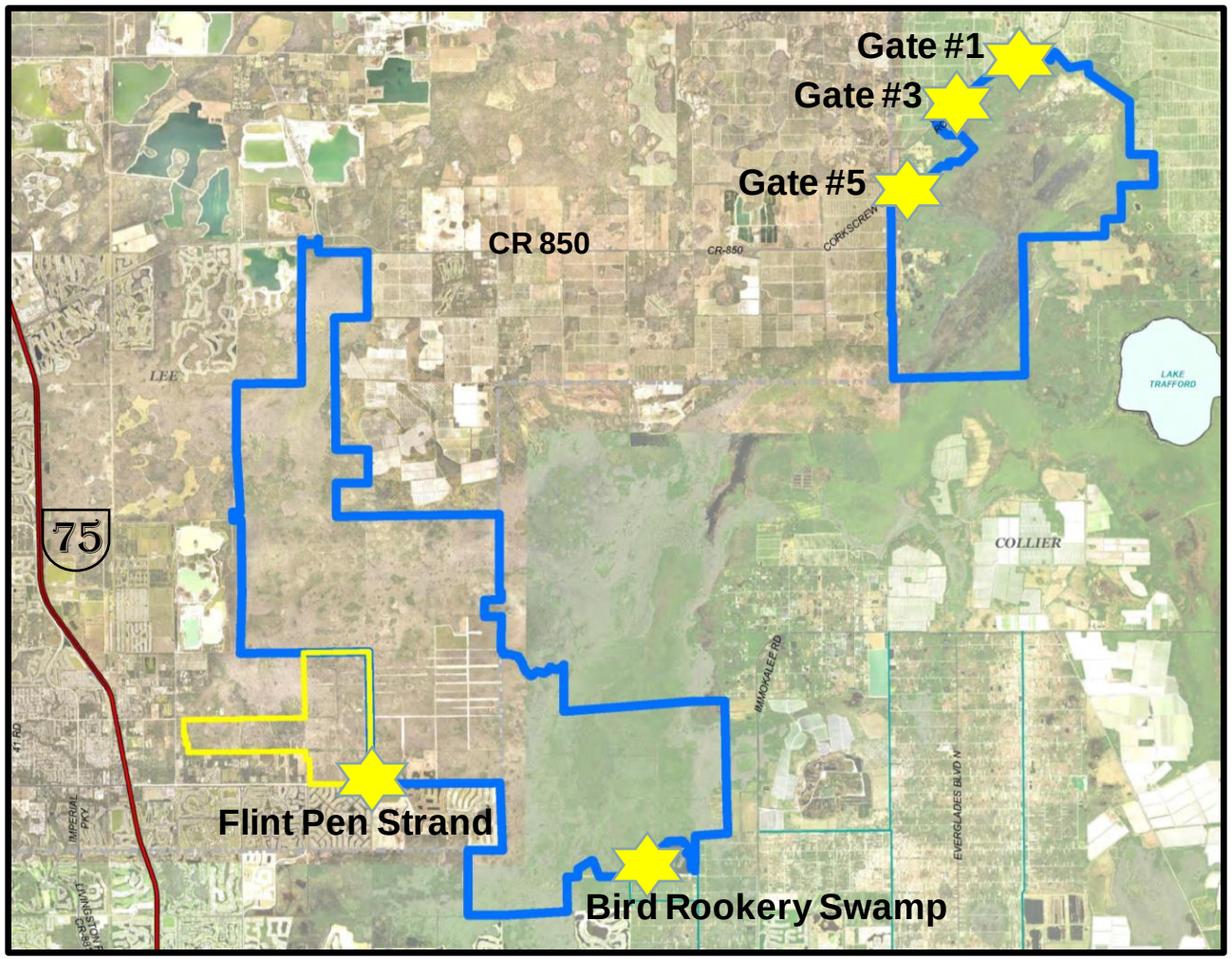
Presenter: Rory Feeney

CREW Public Recreational Access

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- Recreational access points to the District's CREW property:
  - Corkscrew Marsh Trail (Gate #1)
  - Marsh Primitive Campsite (Gate #3)
  - Cypress Dome Trailhead (Gate #5)
  - Bird Rookery Swamp
  - Flint Pen Strand (3 parking areas)





CREW Volunteers

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- Volunteerism is very active at CREW.
  - Recent work by volunteers to support public use and environmental education.

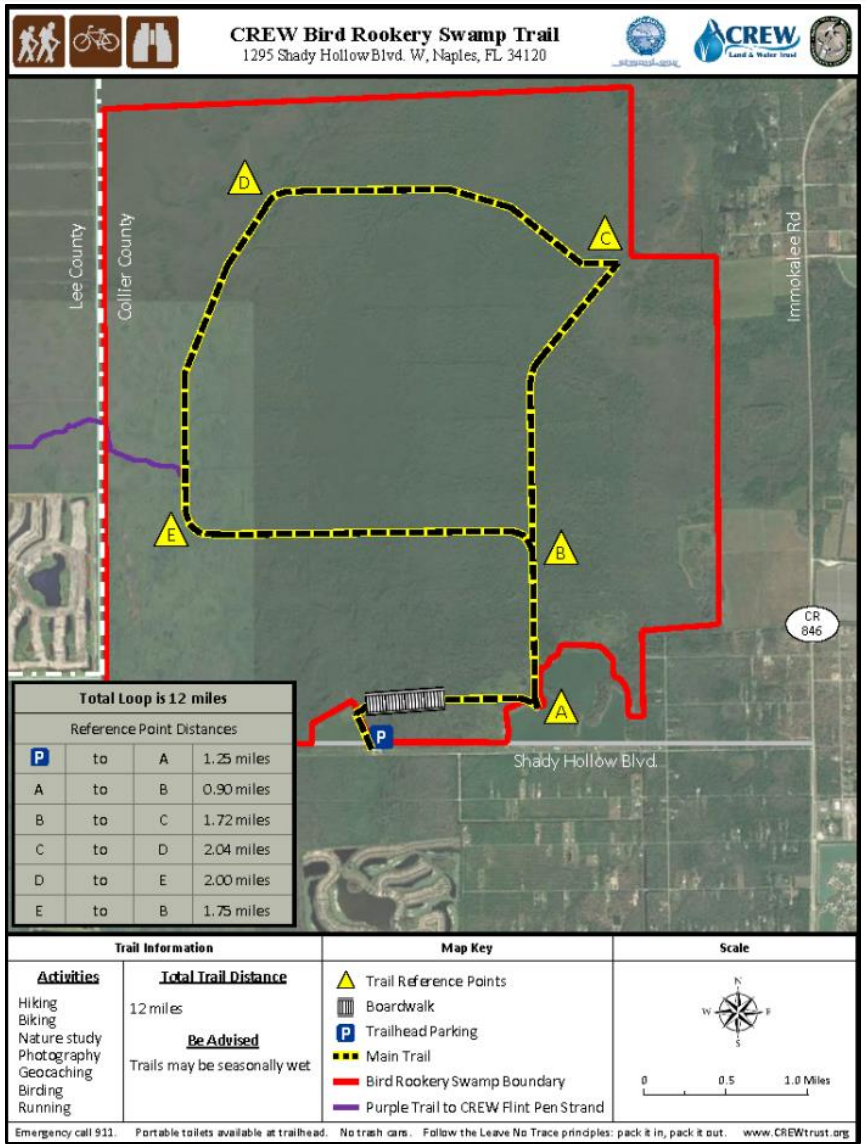




Benches installed for environmental education programs

Bird Rookery Swamp Trail

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- The Bird Rookery Swamp Trail opened in July 2011
- 12 miles of hiking and biking trails, including a 1500-ft. boardwalk with wheelchair accessibility
- The trails are old tram roads used when the area was logged (1940s)
- The maple-cypress swamp is home to alligators, otters, Florida panthers, bobcats, white-tailed deer and more
- More than 30,000 visitors per year



Presenter: Rory Feeney

Bird Rookery Swamp Trail Crossing

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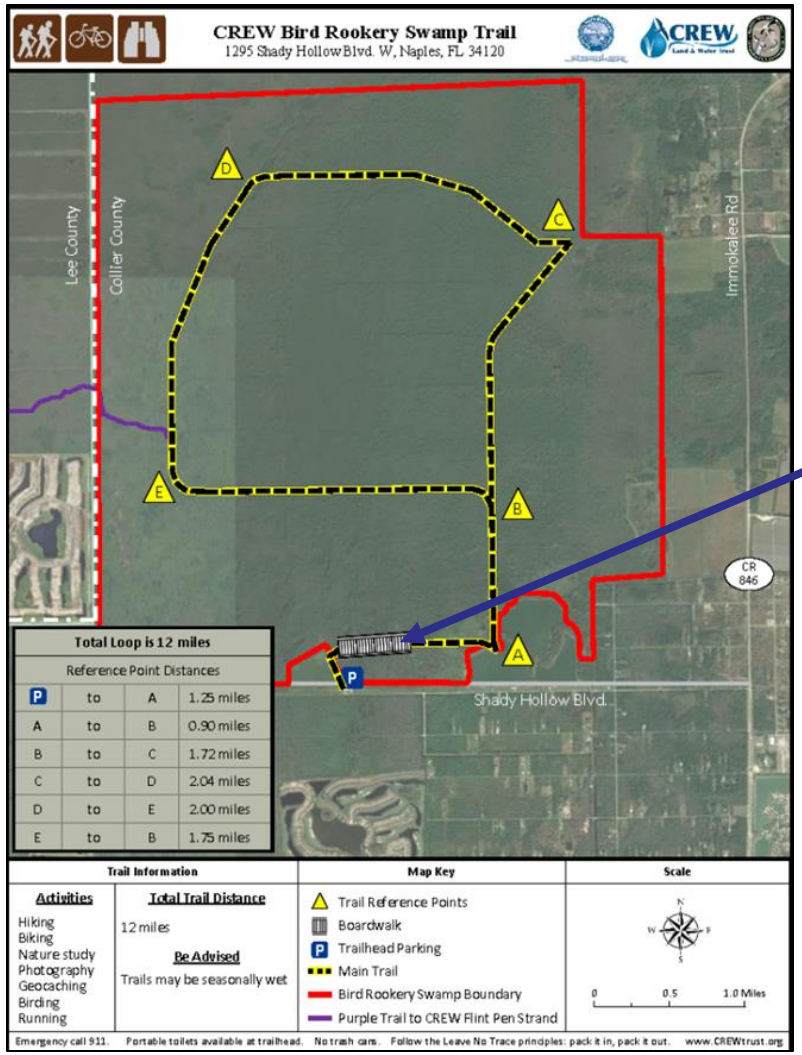




Finished Trail Crossing June 17, 2022

Bird Rookery Swamp Boardwalk

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Bird Rookery Boardwalk Replacement

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- Replacement of structure under design this year.
- Construction to refurbish boardwalk scheduled for next year.







Bird Rookery Parking Lot Expansion

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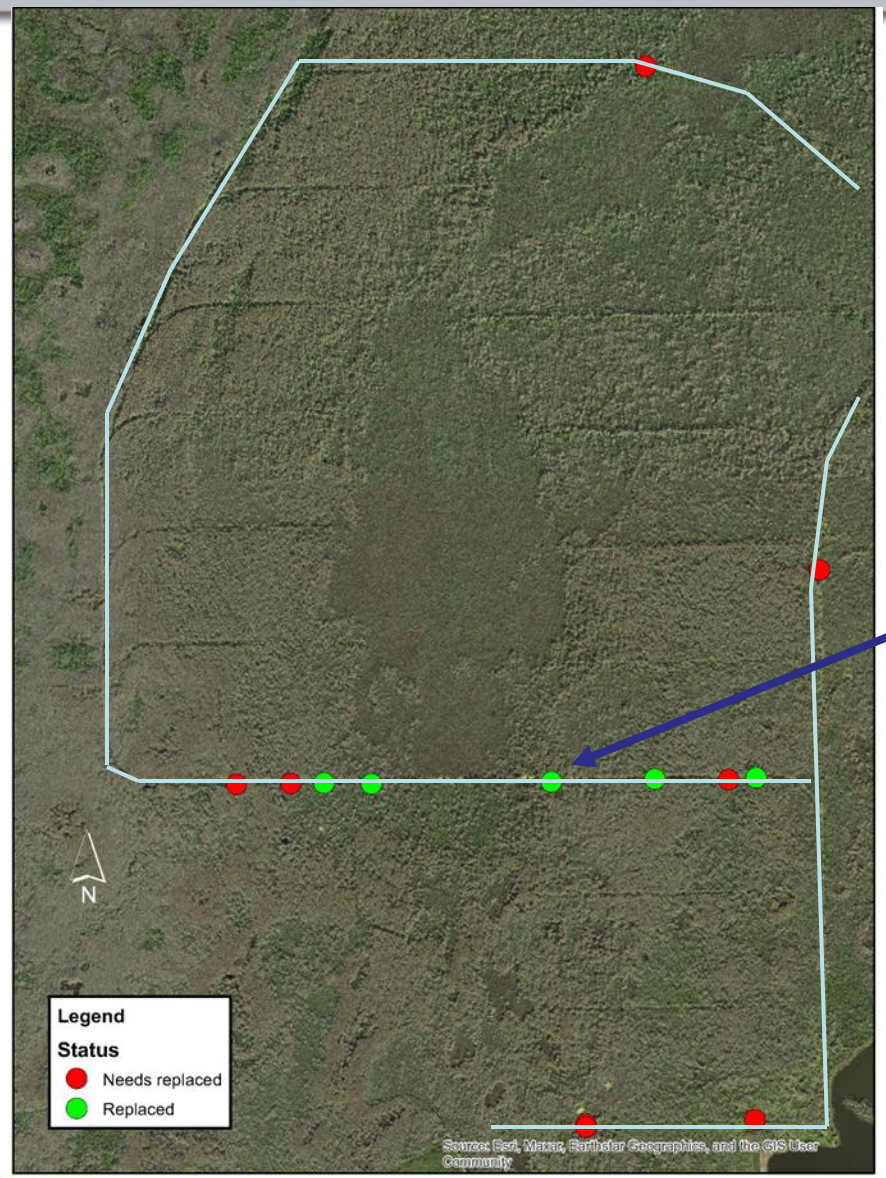


To be begin once boardwalk construction is complete (FY25-26)



Bird Rookery Swamp Trail Culvert Replacement

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- 7 culverts replaced this fiscal year
- More culverts scheduled to be replaced next fiscal year

CREW Invasive Vegetation Management

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Melaleuca



Cogon grass

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Prescribed Burning at CREW

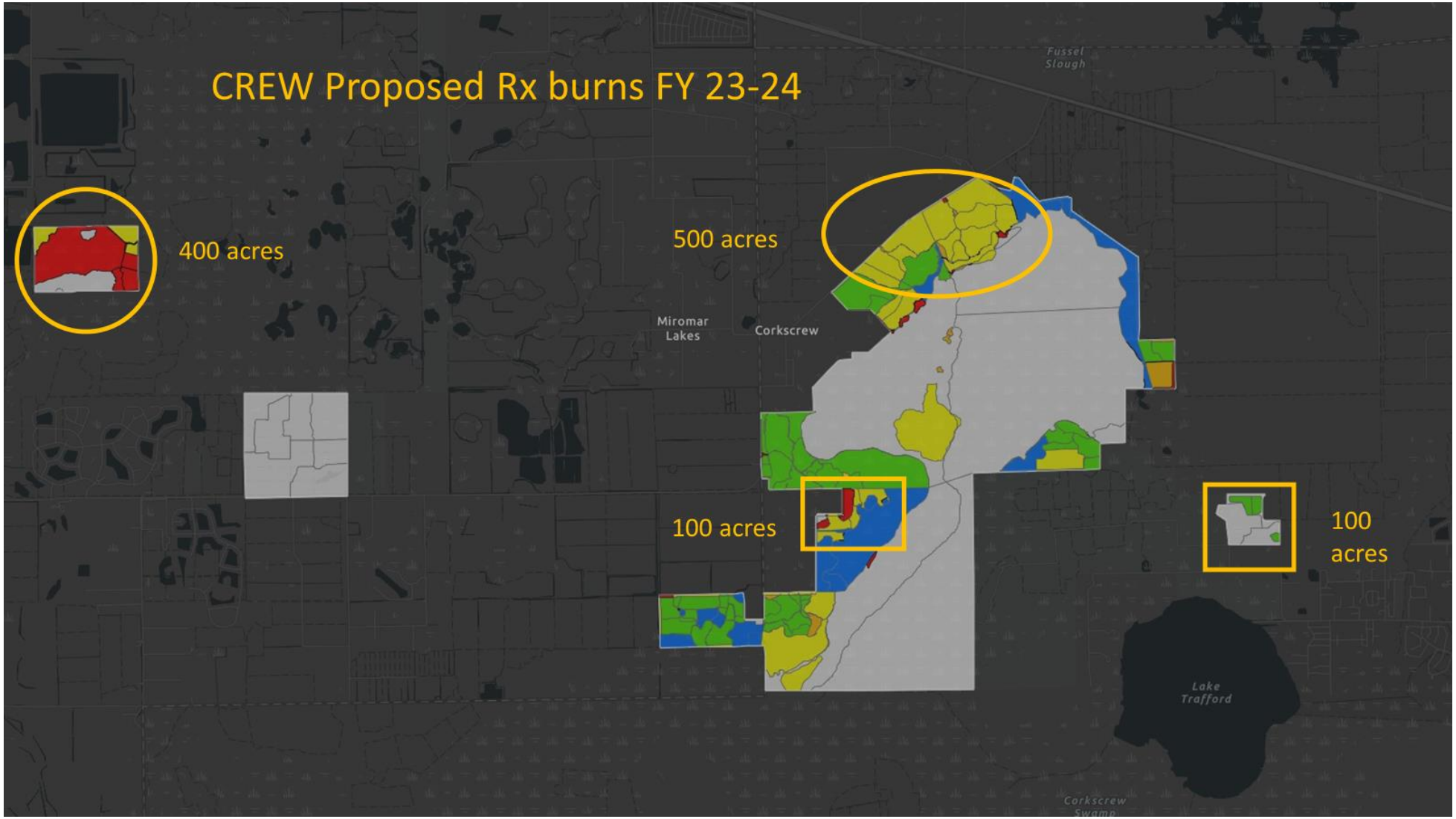
- ✓ Burn objectives and boundaries
- ✓ Site preparation (fire breaks)
- ✓ Communications and contingency planning
- ✓ Wind direction and speed
- ✓ Temperature and relative humidity
- ✓ Dispersion index
- ✓ Drought index
- ✓ Approval from Florida Forest Service





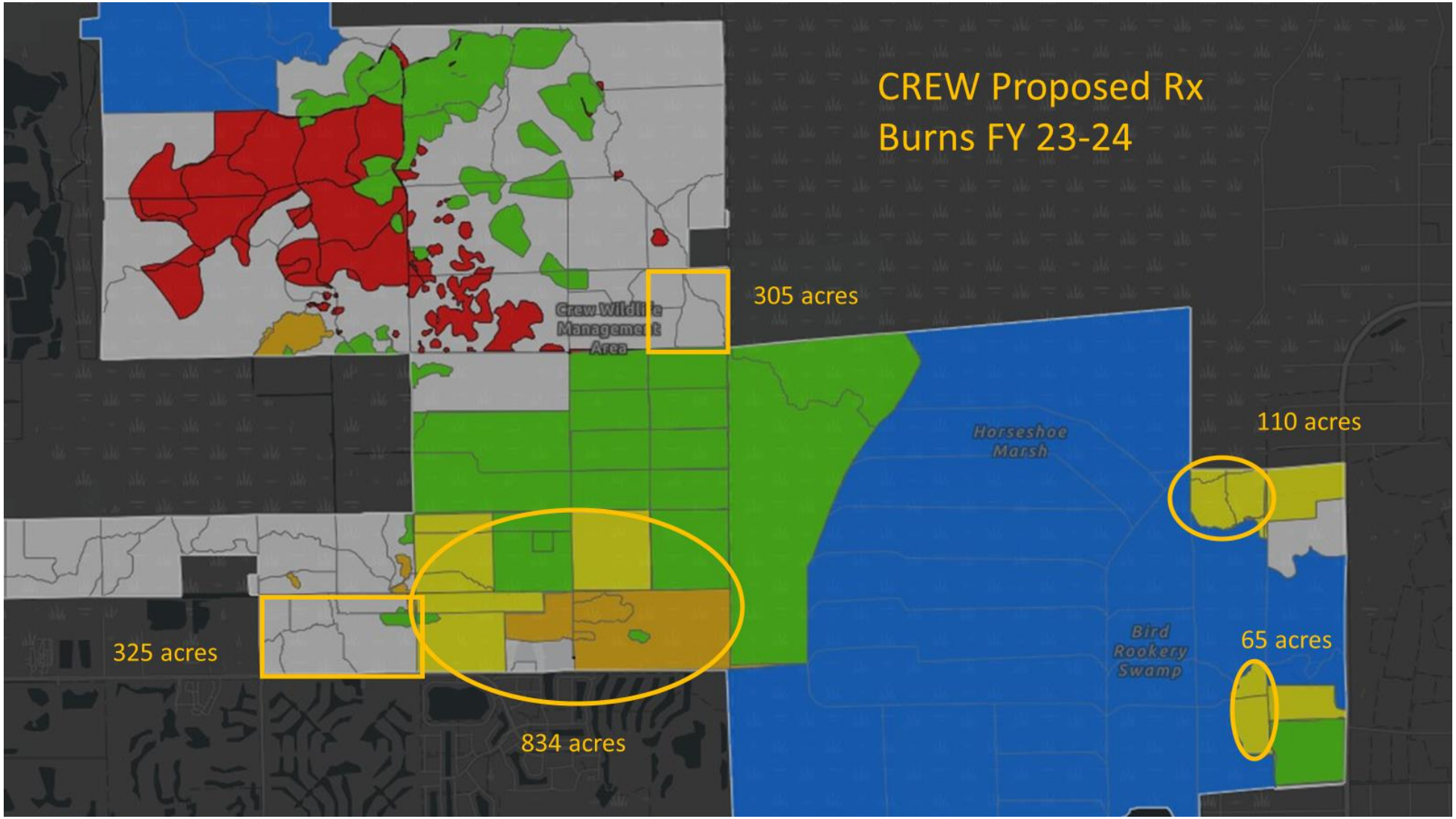
Prescribed Burning at CREW

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Prescribed Burning at CREW

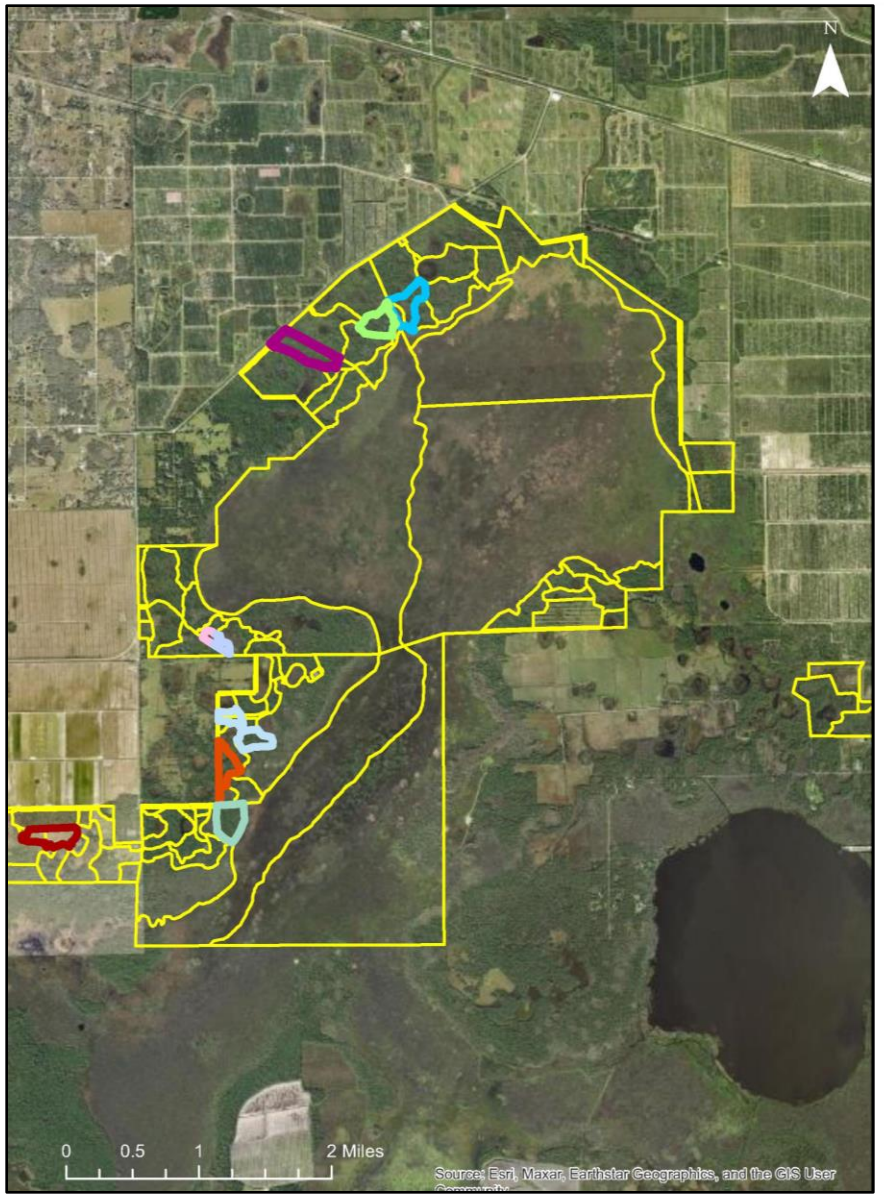
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Prescribed Burning at CREW





Fiscal Year 2024
Number of burns: 11
Acres burned: 181
Acres/burn: ~16.45

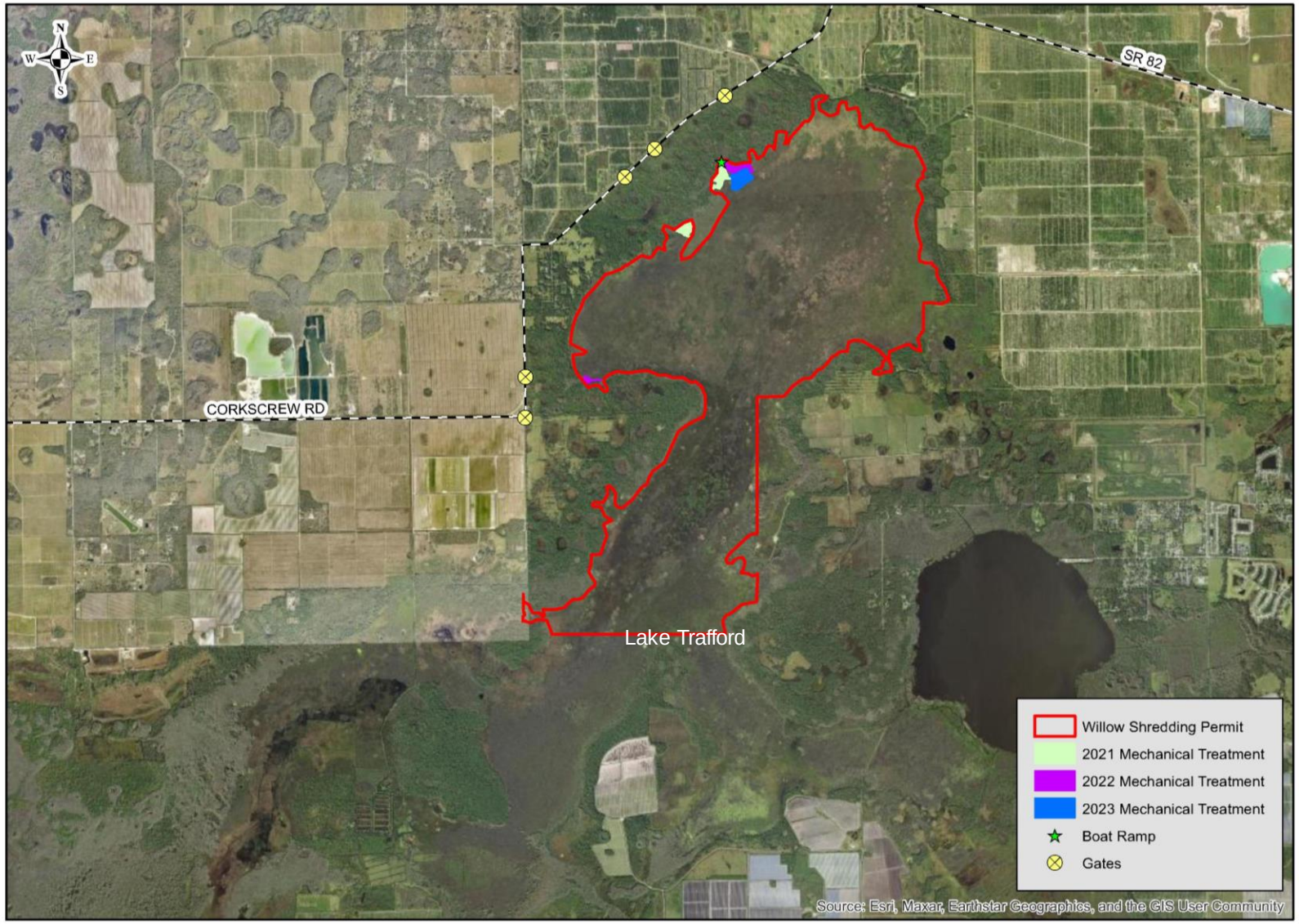
**Complex smaller burns*

Carolina Willow Shredding

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2021: 16.5 acres
2022: 10.1 acres
2023: 18.1 acres
2025: 20+ acres



Presenter: Rory Feeney

Carolina Willow Shredding

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Before



After

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Nuisance Aquatic Vegetation

Aquatic weeds like hydrilla, water lettuce and hyacinth can clog flood control structures, damage habitat and interfere with navigation



Submersed invasive plants in Faka Union Canal



Aquatic plant harvester in BCB Canal

Nuisance Aquatic Vegetation

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- Our contractors' drones utilize an American made drone that carries up to five gallons of solution.
- Their drones are powered by two lithium batteries and six powerful hub motors.
- The drones have obstacle avoidance sensors.
- Data from UAS treatments produce detailed spray reports.
- Have spray booms with fully interchangeable nozzles to control drift.



Threatened and Endangered Species

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Red-cockaded woodpecker


Florida Panther


Crested caracara


Gopher tortoise


Eastern indigo snake

Python Management and Research

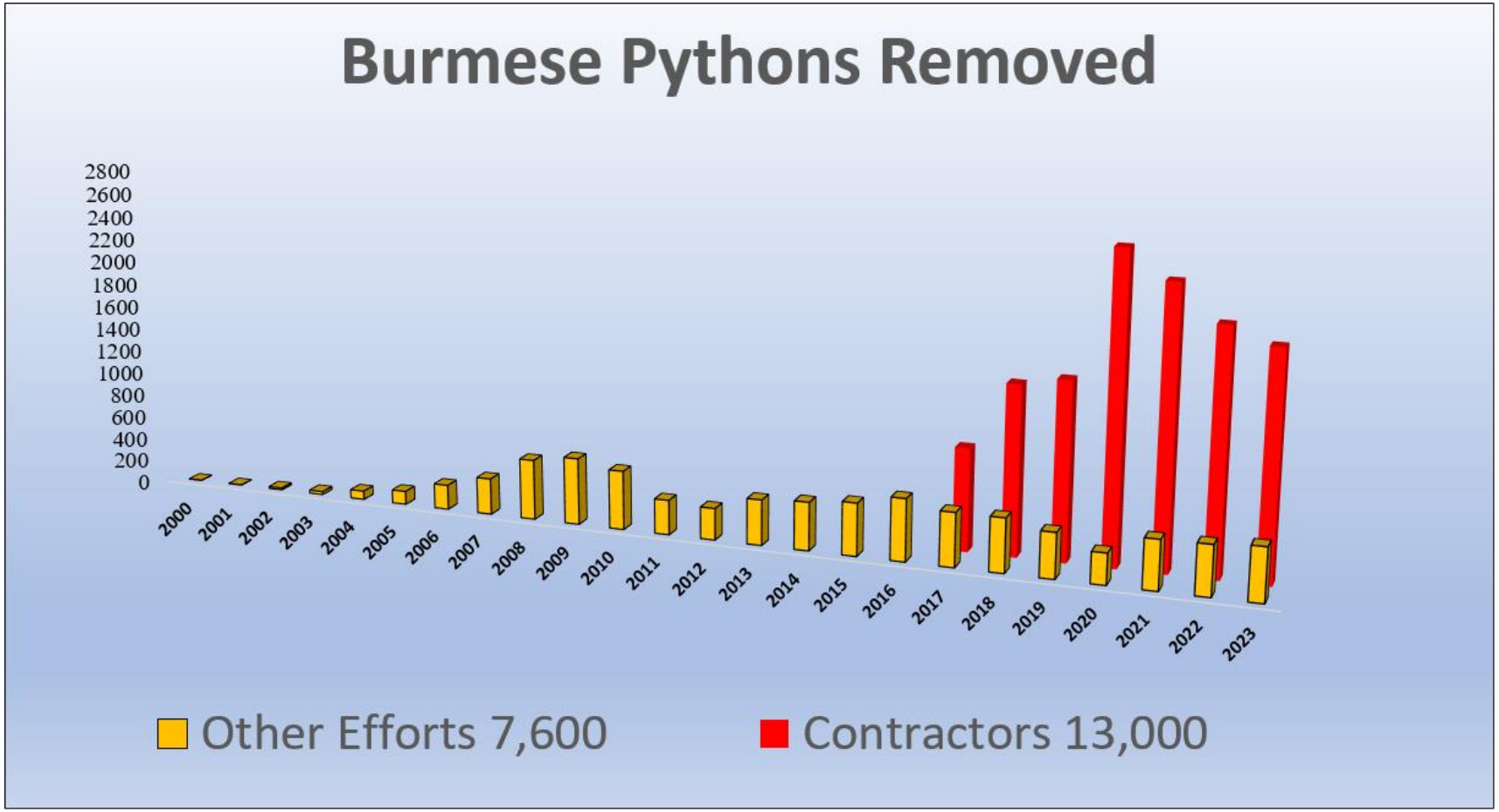
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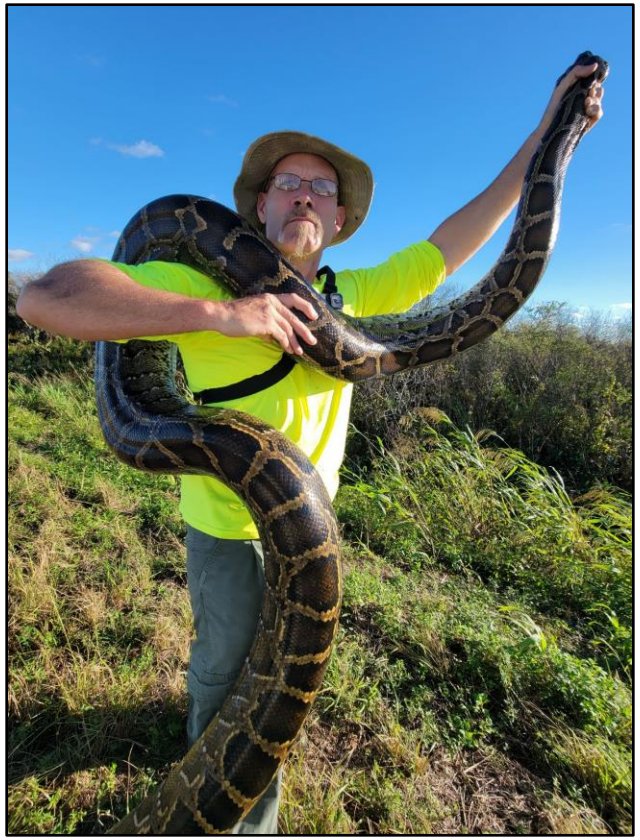


- Python Elimination Program
  - Partner program with Florida Fish and Wildlife Conservation Commission
- Systematic Monitoring
  - University of Florida
- Telemetry
  - Conservancy of SW Florida, University of Florida, and US Geological Survey
- Population studies
  - University of Florida, US Geological Survey
- Outreach
  - University of Florida, Florida Fish and Wildlife Conservation Commission, and National Park Service
- Attractants
  - University of Florida, US Fish and Wildlife Service
- Annual Florida Python Challenge
  - Florida Fish and Wildlife Conservation Commission

Python Management and Research

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Anthony Flanagan

DRAFT

Thank you to our Partners!

CREW Land & Water Trust

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION

Audubon FLORIDA

FLORIDA FOREST SERVICE Agriculture & Consumer Services

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Questions?



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Tree Management Program Overview

Ryan Brown
Vegetation Management Specialist
Big Cypress Basin Board Meeting
April 26, 2024

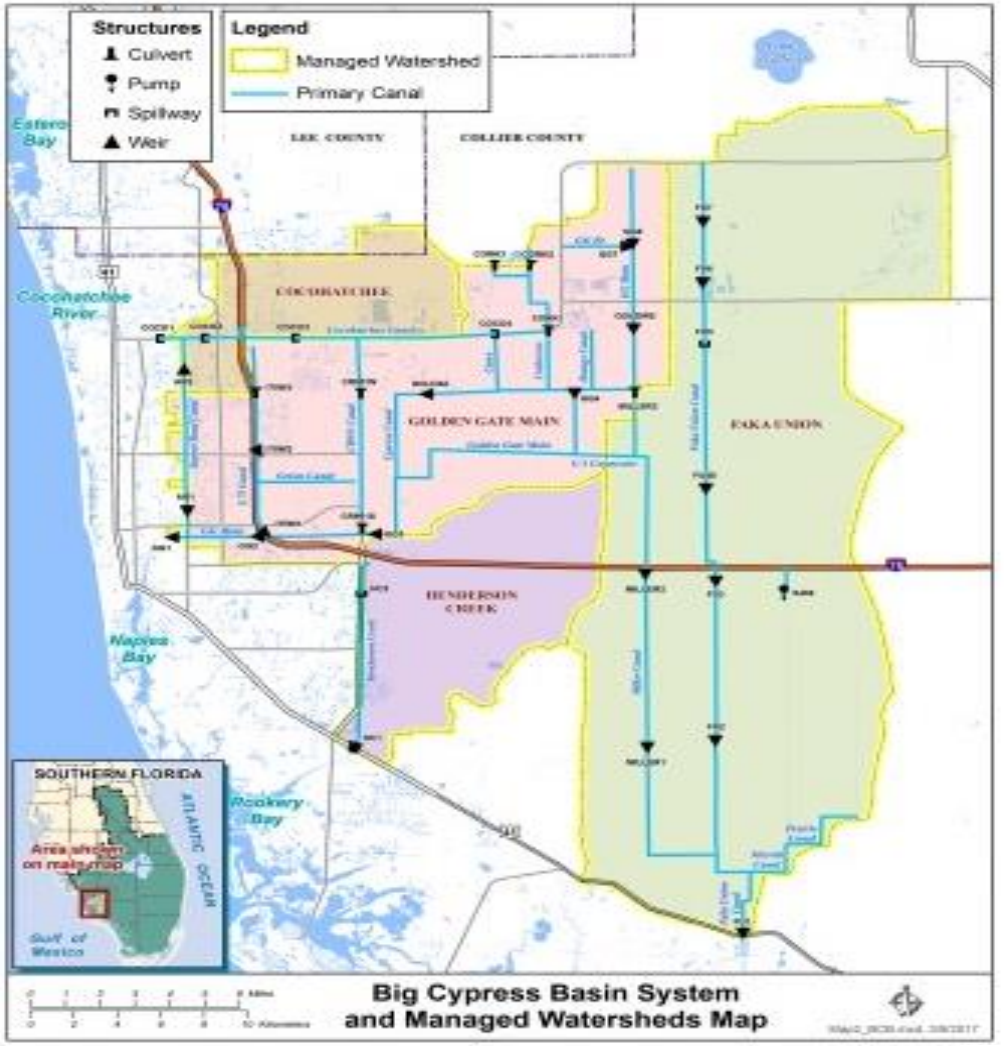


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BCB Flood Control Infrastructure

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- 139.6 miles of canals and 38 water control structures
- Maintained for acceptance of storm water at all time
- One aspect of maintenance is the removal of hazardous trees and debris
- Have potential to cause blockages of canals and structures, increase the risk of destructive flooding



Why are trees "hazards" to our system?

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Golden Gate Canal after Hurricane Irma





Why are trees "hazards" to our system?

DRAFT

Structure Blockages after Hurricane Irma





DRAFT

Why are trees "hazards" to our system?

Cypress Canal after Hurricane Irma





Why are trees "hazard" to our system?

DRAFT

Basin Flooding after Hurricane Irma





Tree Management Program

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- Tree management projects are preventative measures taken to ensure the system works as designed
- Fallen trees can back up water in gravity driven system
- Target hazardous trees that threaten the system, selective pruning for equipment access to structures



Tree Management Program

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What is removed?

- **Trees and palms**
  - Trees and palms located within the ROW or easement are targeted
  - Trees located beyond the ROW or easement that are deemed hazardous can be removed with owner permission
- **Ficus hedges**
  - Ficus is particularly vulnerable to windthrow and therefore not allowed in our ROW's or easements



Golden Gate Main

Tree Management Program

DRAFT

What stays?

- **Hedges and other low beautification plantings**
  - In areas where no drivable ROW exists, certain plantings are allowed
  - Hedges (excluding ficus) kept to a maximum of 6’ are allowed
  - Maintained shrubs and groundcover are allowed



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Tree Removal Program Process

Prioritization Matrix Score:

Priority 1: High priority/direct impacts to canal conveyance or ROW access.

Priority 2: Medium priority/indirect impacts to canal conveyance or ROW access.

Priority 3: Low priority/minimal impacts to canal conveyance or ROW access.

Priority 4: Areas where maintenance trimming will be required every 5+ years.

Priority 5: Routine maintenance only such as mowing or spraying.

Tree Removal Program Process

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Tree Removal Projects are executed based on a Basin specific checklist, which includes the following steps:

1. **Identify Project**
2. **Determine Real Estate Interest**
   a. Obtain better quality easements
   b. Research survey resources
3. **Project approval** (meet with BCB Board, County Commission)
4. **Survey review and Analysis**
   a. Survey review – ROW enforce
   b. Survey review – Vegetation

Tree Removal Program Process

DRAFT

Tree Removal Projects are executed based on a Basin specific checklist, which includes the following steps:

5. **Budget**
6. **Public Outreach**
   a. Public outreach - Letter preparation
   b. Public outreach – Website
7. **Executive Review**
8. **Outreach Letter**
9. **Green Light**
10. **Project Updates**

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Emergency Debris Removal





In the event of a storm or major rain event, our staff and contractors are ready to respond



Tree Management Projects 2023

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Miller Canal

52nd Ave SE to Miller Pump Station

Tree Management Projects 2023

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Faka-Union Canal

Manatee Oxbows

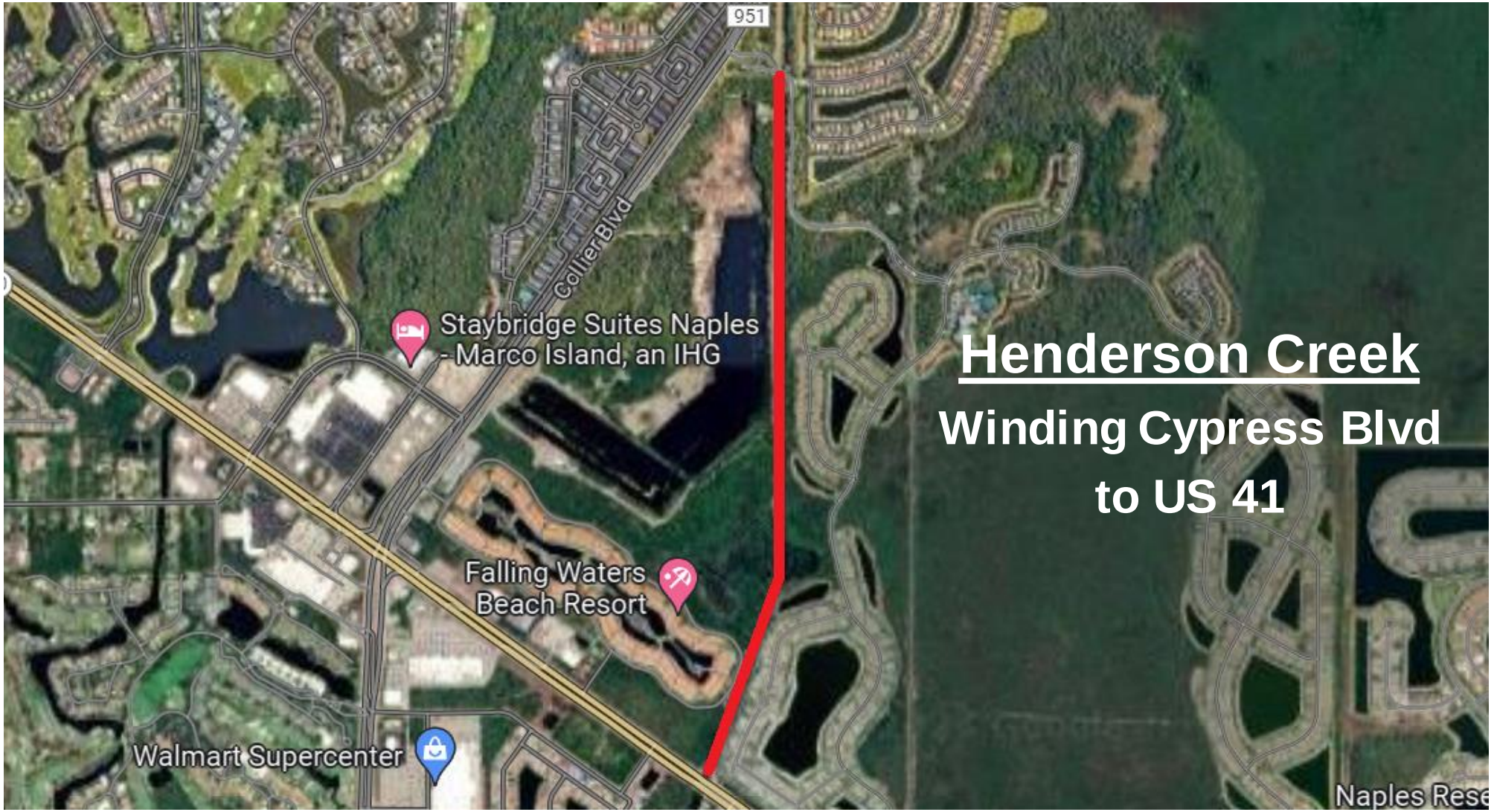






Tree Management Projects 2024

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Tree Management Projects 2024

Henderson Creek

Verona Walk Blvd to US 41

June 2024







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Questions

Learn more about the SFWMD flood control efforts at www.sfwmd.gov




Green Canal – Hurricane Ian

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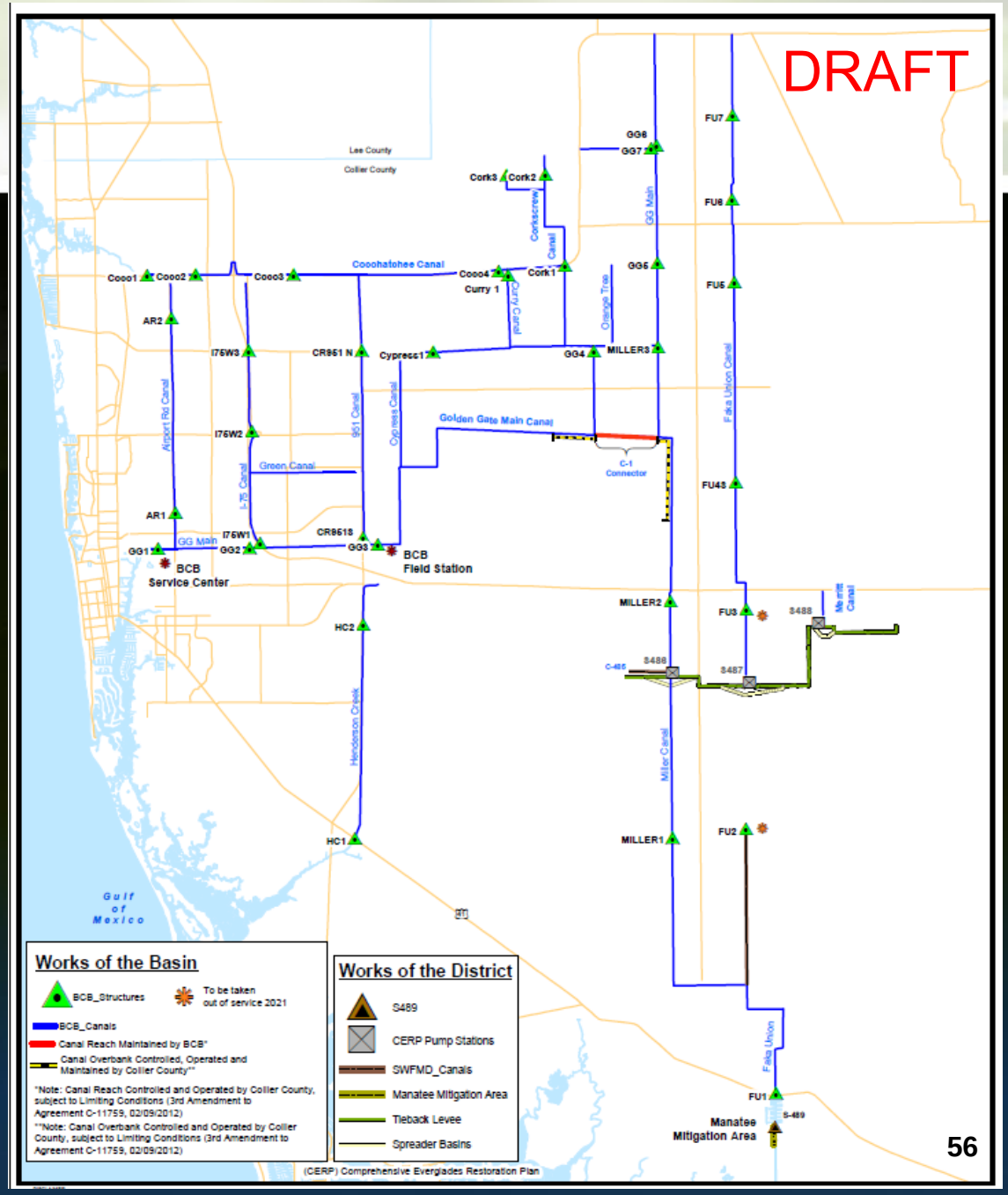
Adapting to Future Rainfall Projections in South Florida

Carolina Maran, P.E., Ph.D.
Chief of District Resiliency

April 26, 2024

Major Features of the BCB System

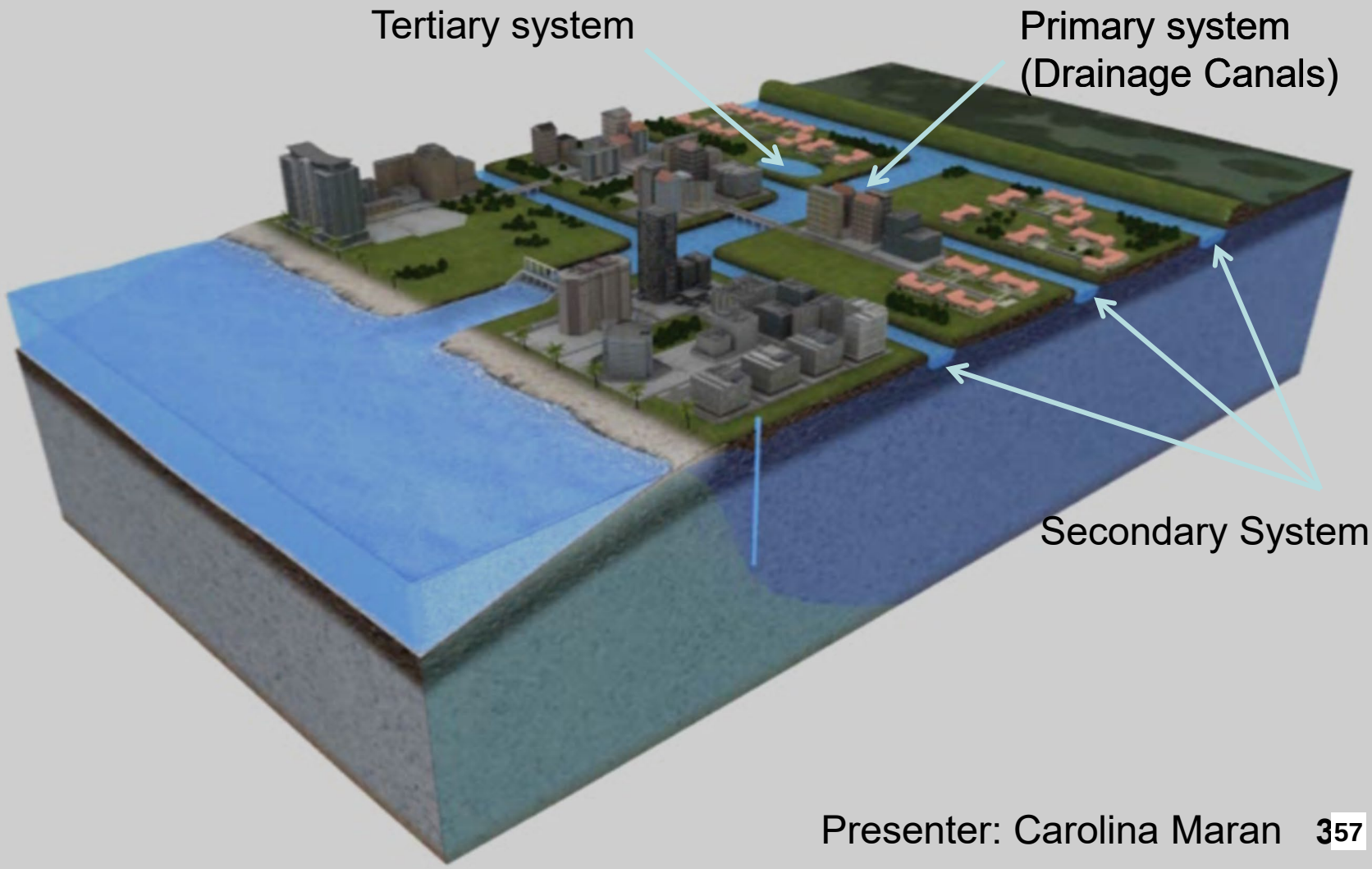
- 140 miles of canals
- 3 pump stations
- 39 water control structures, including main Coastal Structures:
  - FU-1
  - HC-1
  - GG-1
  - COCO-1



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Flood Protection Responsibility

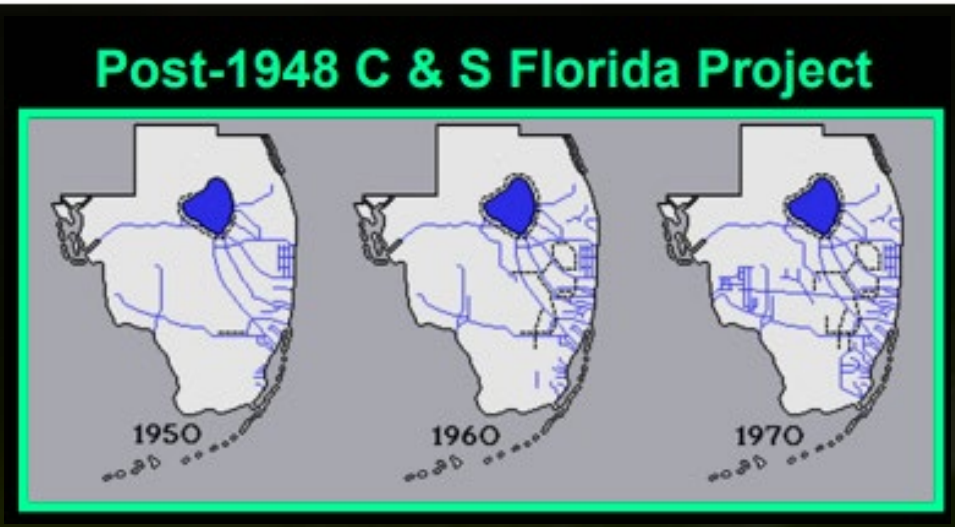
- Primary
  - **SFWMD/BCB**
- Secondary
  - Collier County
- Tertiary
  - Homeowners Associations
  - Private Landowners

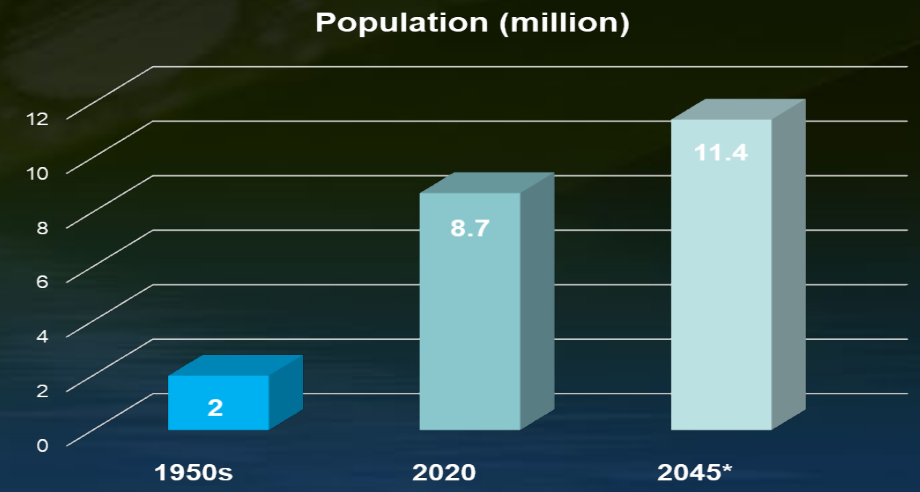


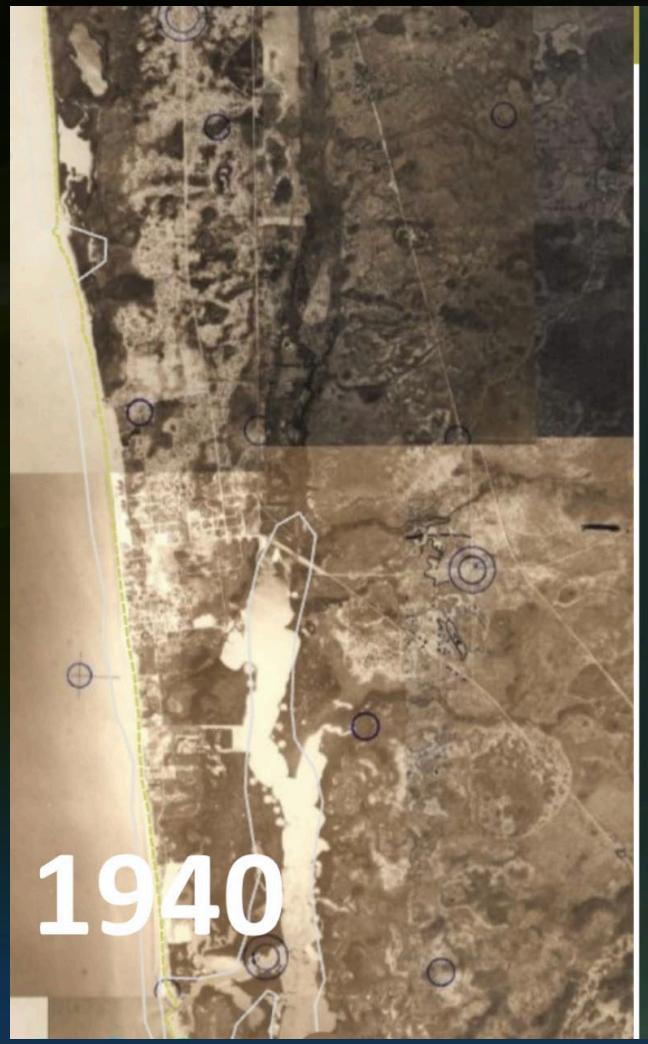
Presenter: Carolina Maran

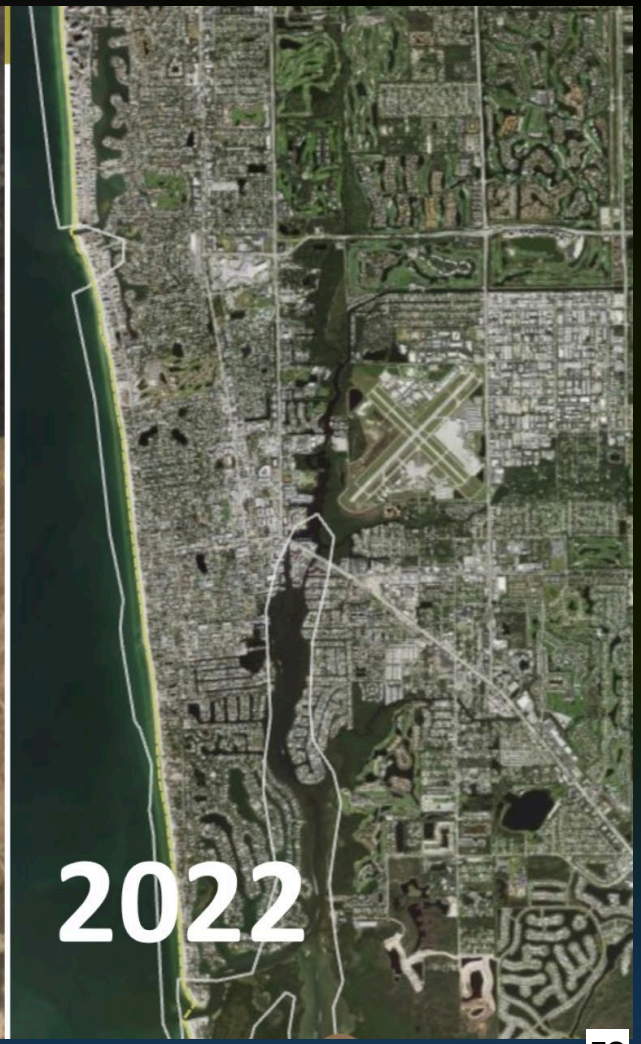
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Recognizing Changing Conditions









* Estimate taken from BEBR 2017 publication (Median, SFWMD boundaries)

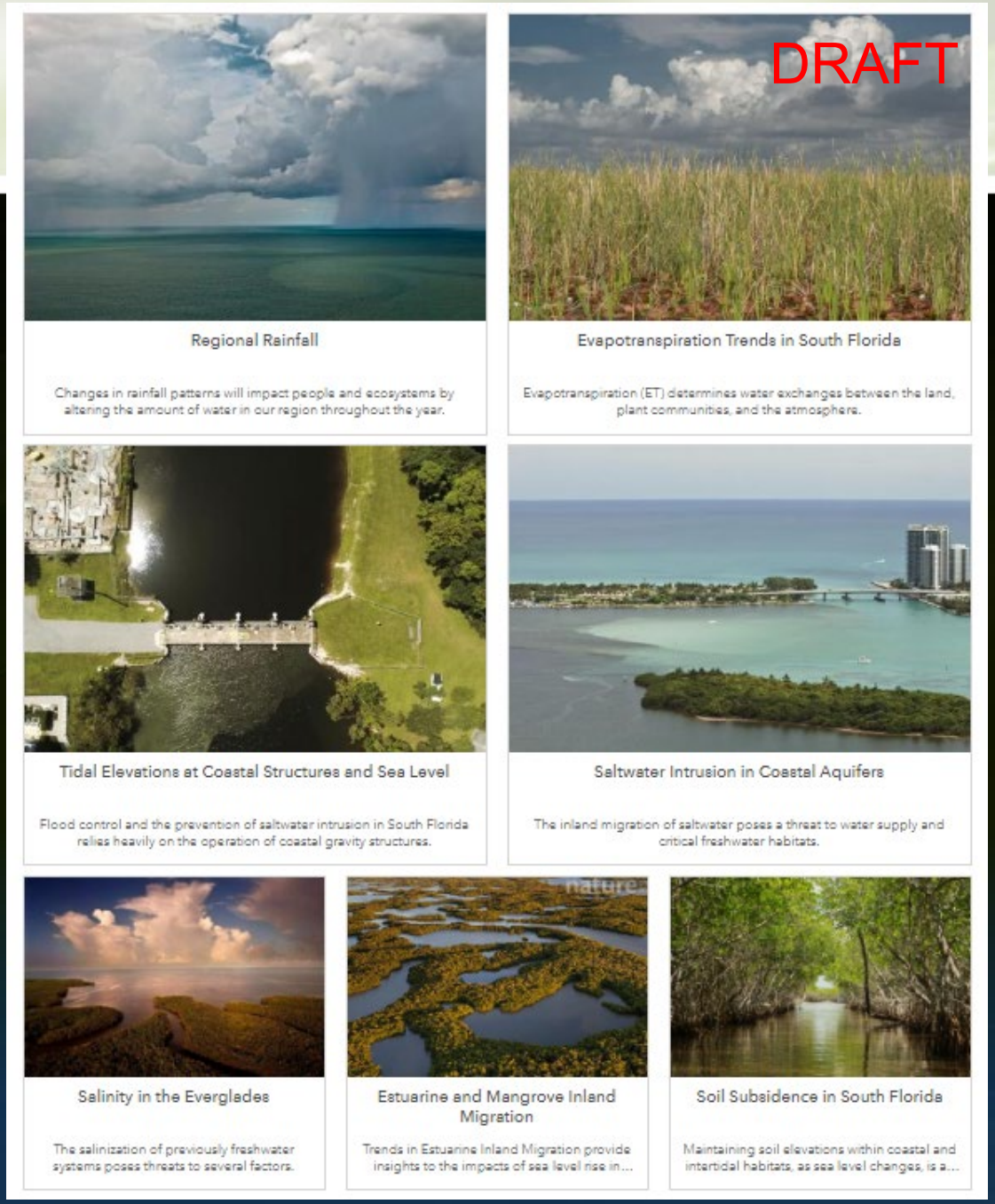
Presenter: Carolina Maran

Recognizing Changing Conditions

Resilience Metrics Hub

Water and Climate Resilience Metrics

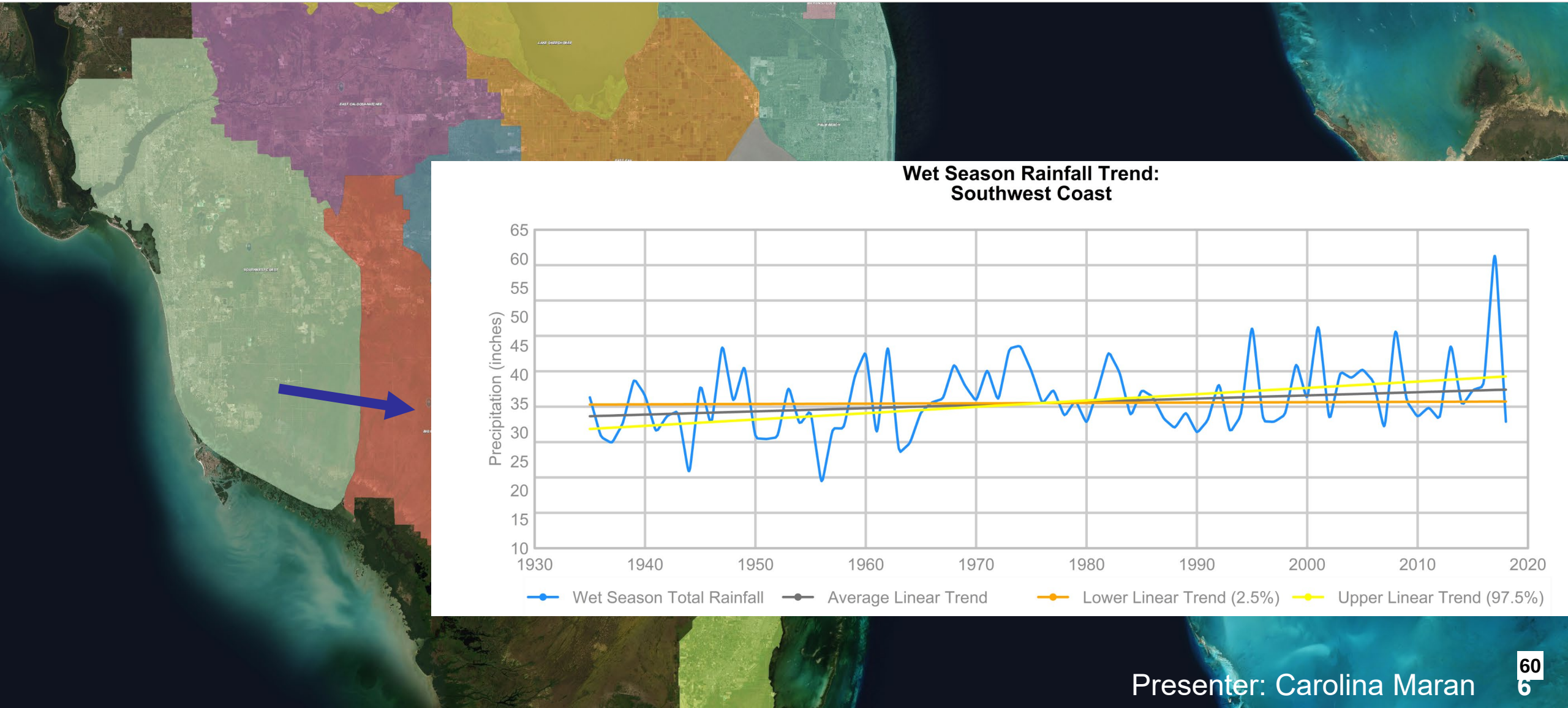
https://sfwmd-district-resiliency-sfwmd.hub.arcgis.com/



Presenter: Carolina Maran

DRAFT

Rainfall Observations



Presenter: Carolina Maran

Recent Critical Flooding Events

Hurricane Irma, September 2017

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Golden Gate Canal and Overbank Flooding



Golden Gate City Street Flooding

Recent Critical Flooding Events

Hurricane Ian, September 2022

DRAFT



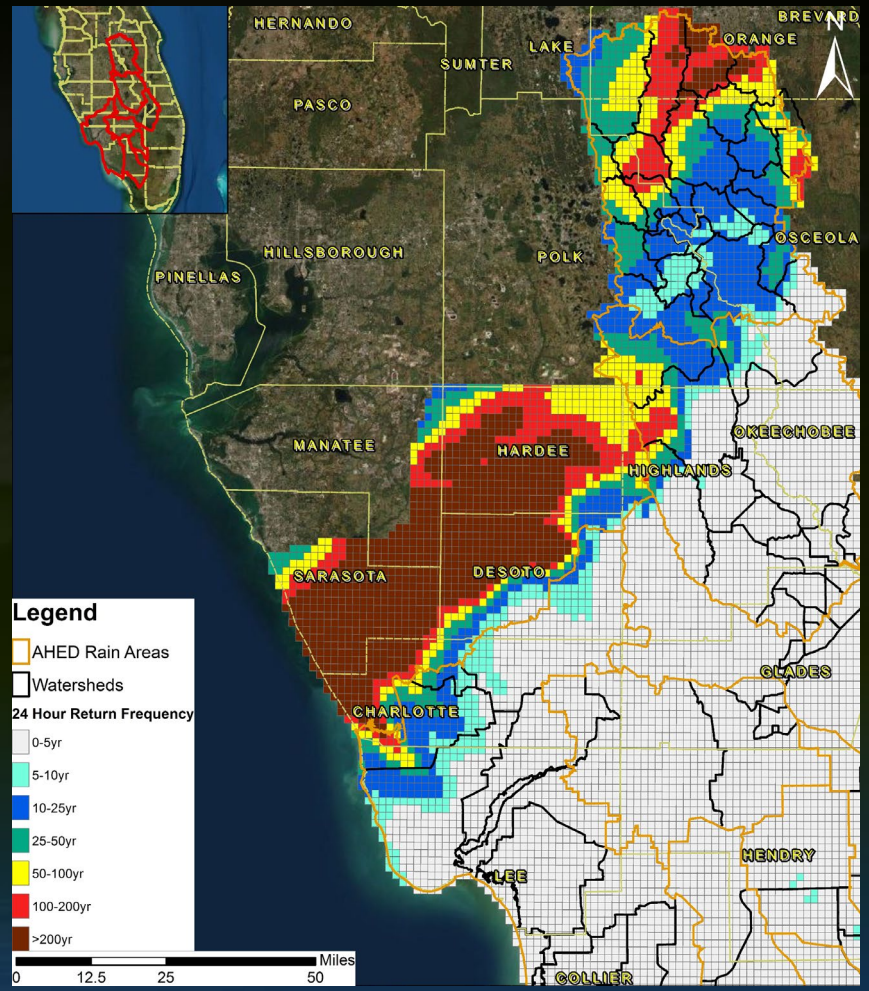


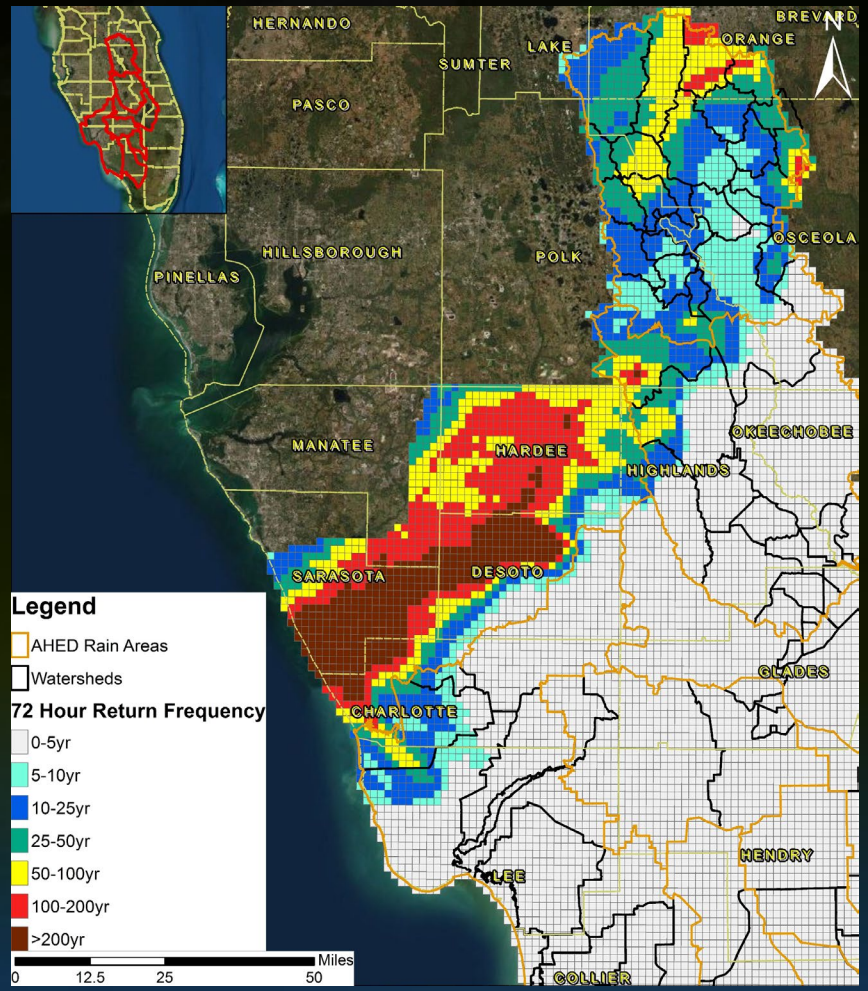
Presenter: Carolina Maran

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Hurricane Ian Rainfall

Peak 14.83”
(East Lake Toho)





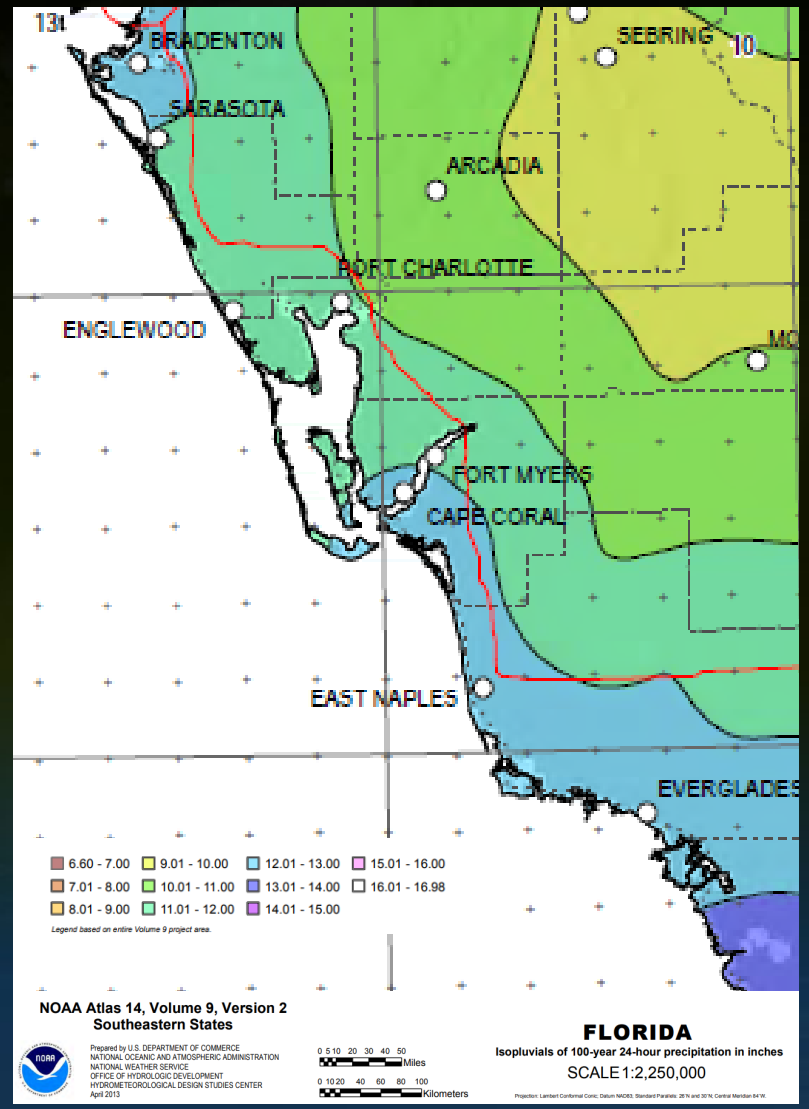
Return frequency estimated by comparing NOAA Atlas 14 Rainfall Frequency values to maximum rainfall totals for 24 hours and 72 hours, per NEXRAD pixel

Presenter: Carolina Maran

From Observations to Projections: Estimating Future Rainfall

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- SFWMD partnership with USGS & FIU
- Global climate model downscaling datasets (MACA, LOCA, CORDEX)
- Review of the latest science and refined evaluation of predicted rainfall
- Estimate **change factors in extreme rainfall** by 2040/70, districtwide, compared to NOAA Atlas 14 observations
- Strengthen District's flood risk planning capacity



[Development of Projected Depth-Duration-Frequency Curves (2050–89) for South Florida (usgs.gov)]

Presenter: Carolina Maran

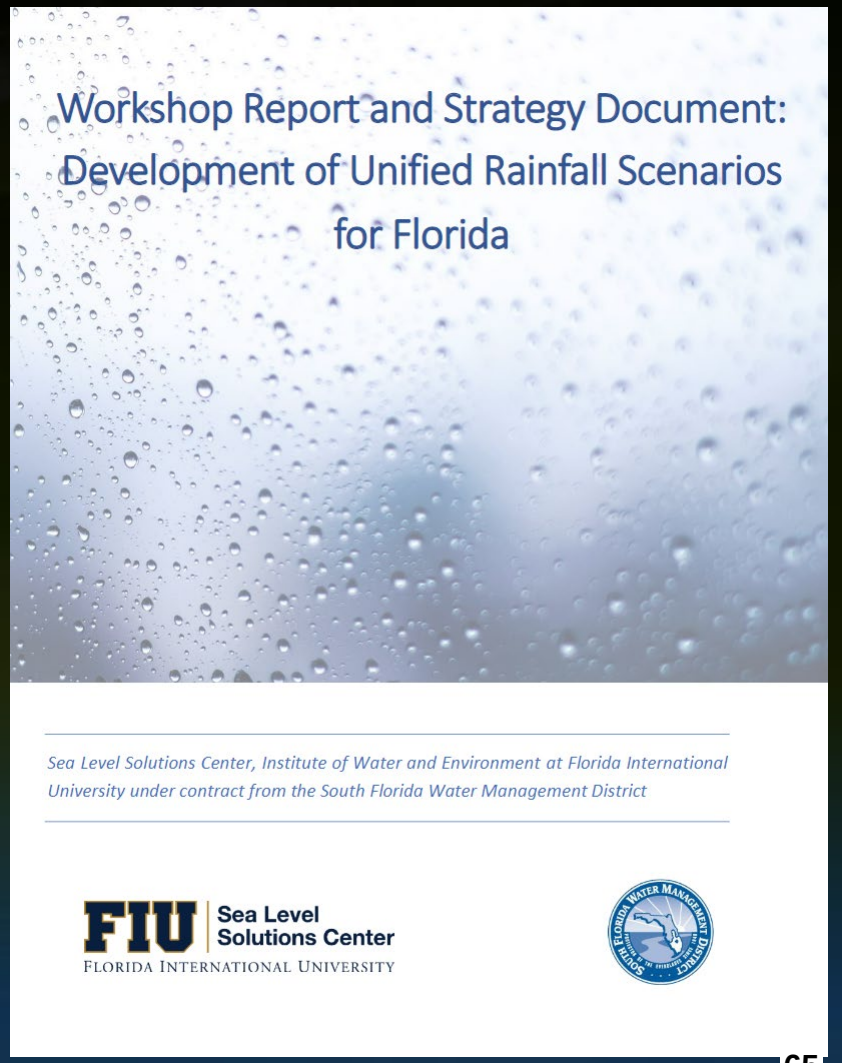
Rainfall Projections
May 2019 Workshop FIU/SFWMD

DRAFT

Shorter-term strategy: rainfall estimates based on available global climate model downscaled datasets

Longer-term strategy: development of a Florida Regional Climate Model to capture particular conditions /mechanisms of rainfall occurrences in our State, including Tropical Storms and sea breeze contributions, among other important climatic processes.



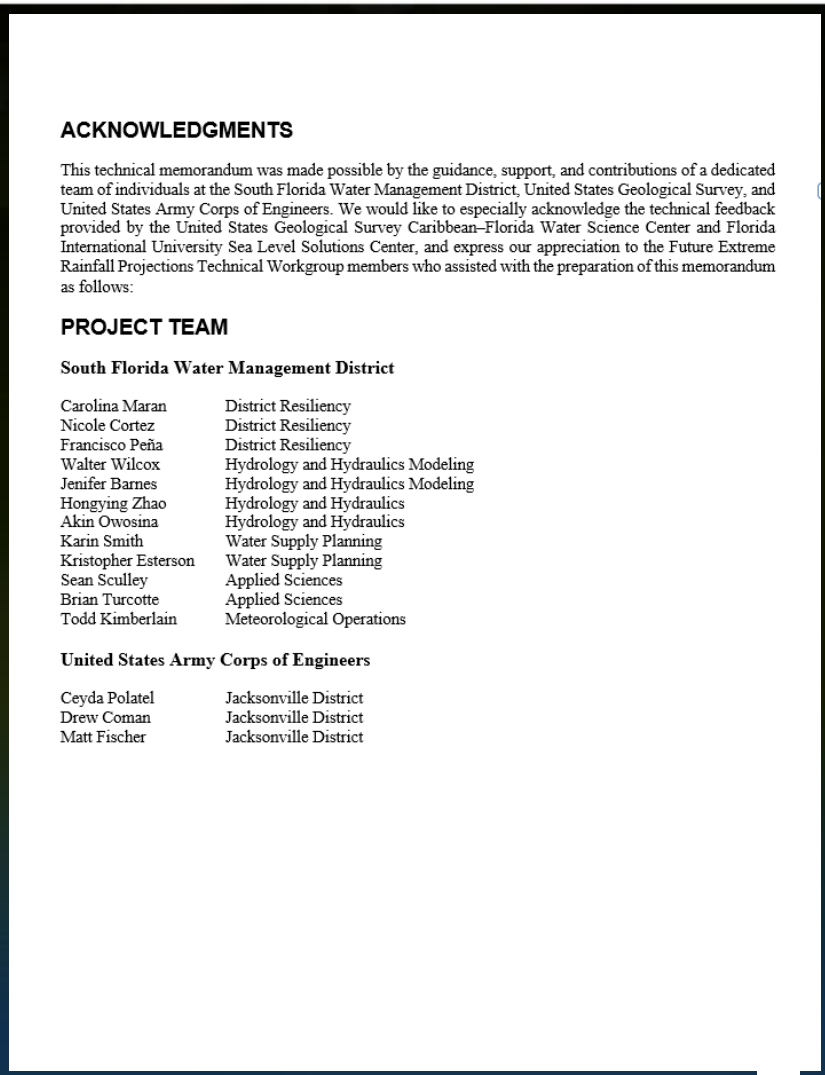


DRAFT

How to best adopt these results?







ACKNOWLEDGMENTS

This technical memorandum was made possible by the guidance, support, and contributions of a dedicated team of individuals at the South Florida Water Management District, United States Geological Survey, and United States Army Corps of Engineers. We would like to especially acknowledge the technical feedback provided by the United States Geological Survey Caribbean–Florida Water Science Center and Florida International University Sea Level Solutions Center, and express our appreciation to the Future Extreme Rainfall Projections Technical Workgroup members who assisted with the preparation of this memorandum as follows:

PROJECT TEAM

South Florida Water Management District

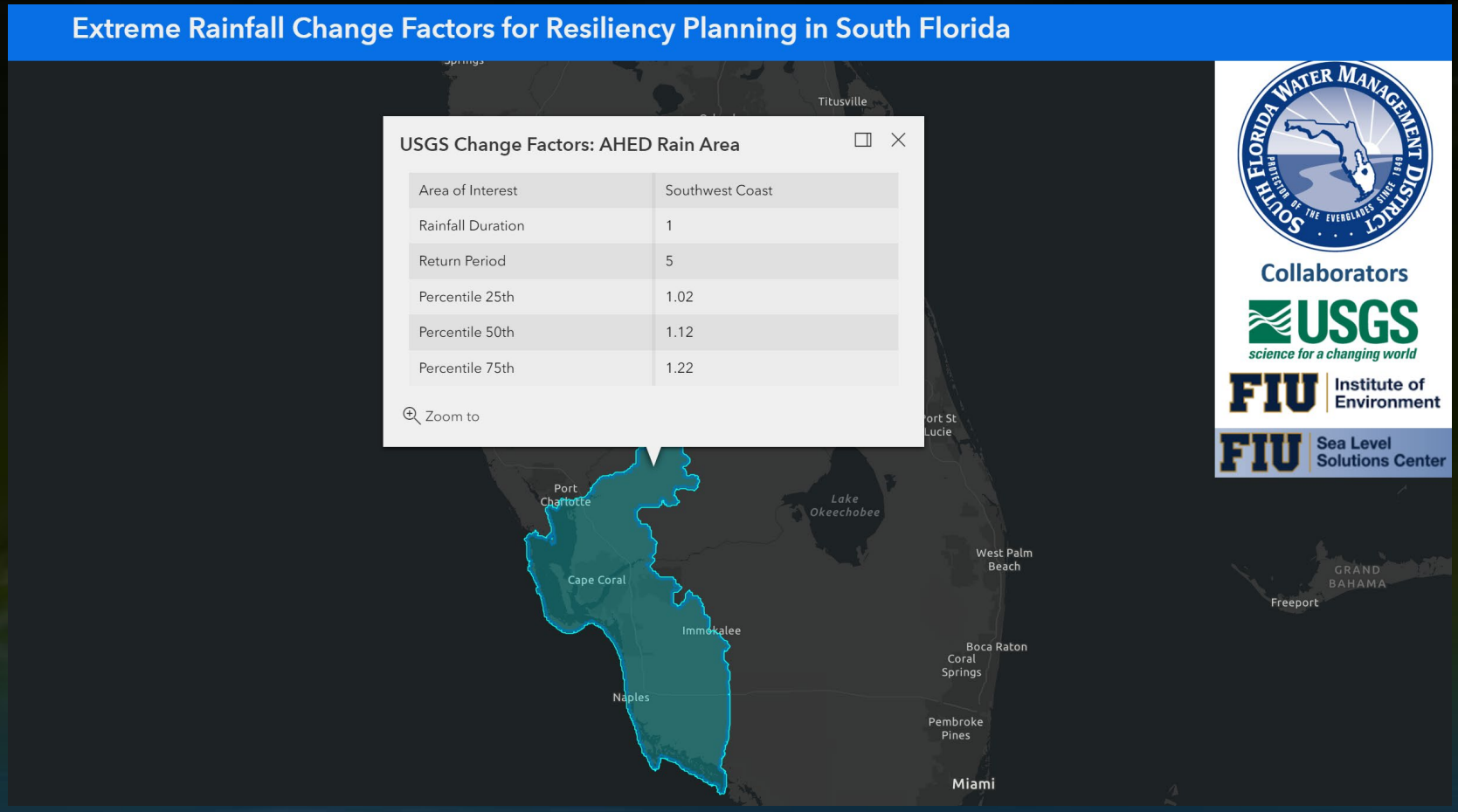
Carolina Maran	District Resiliency
Nicole Cortez	District Resiliency
Francisco Peña	District Resiliency
Walter Wilcox	Hydrology and Hydraulics Modeling
Jenifer Barnes	Hydrology and Hydraulics Modeling
Hongying Zhao	Hydrology and Hydraulics
Akin Owosina	Hydrology and Hydraulics
Karin Smith	Water Supply Planning
Kristopher Esterson	Water Supply Planning
Sean Sculley	Applied Sciences
Brian Turcotte	Applied Sciences
Todd Kimberlain	Meteorological Operations

United States Army Corps of Engineers

Ceyda Polatel	Jacksonville District
Drew Coman	Jacksonville District
Matt Fischer	Jacksonville District

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Projections – Extreme Rainfall



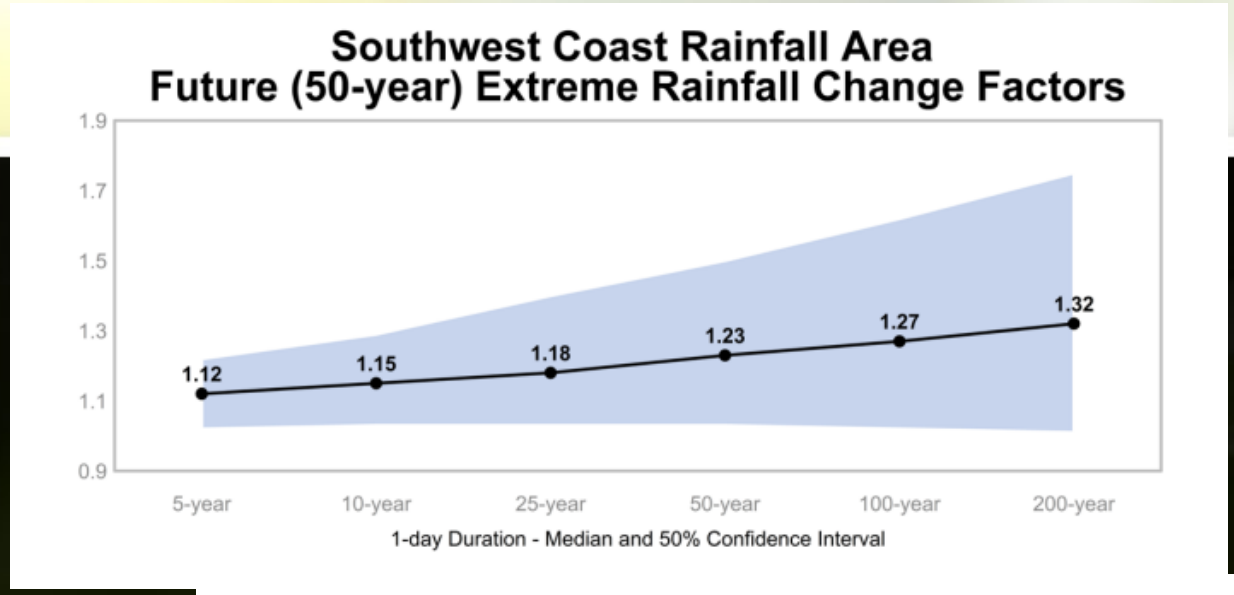
USGS Change Factors: AHED Rain Area

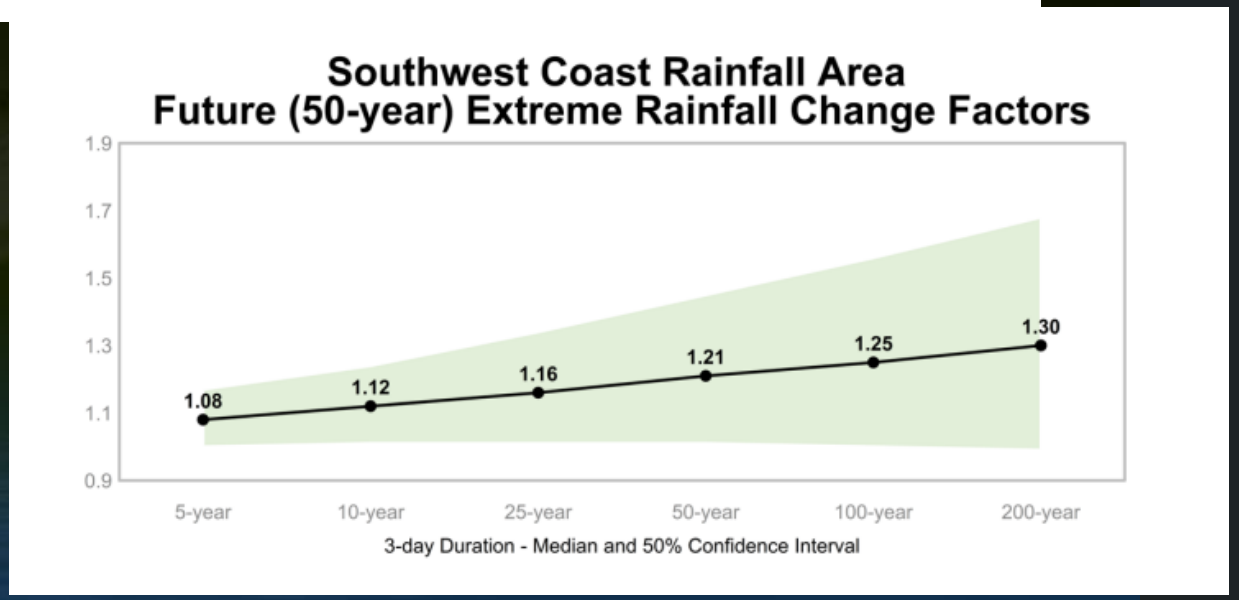
Area of Interest	Southwest Coast
Rainfall Duration	1
Return Period	5
Percentile 25th	1.02
Percentile 50th	1.12
Percentile 75th	1.22

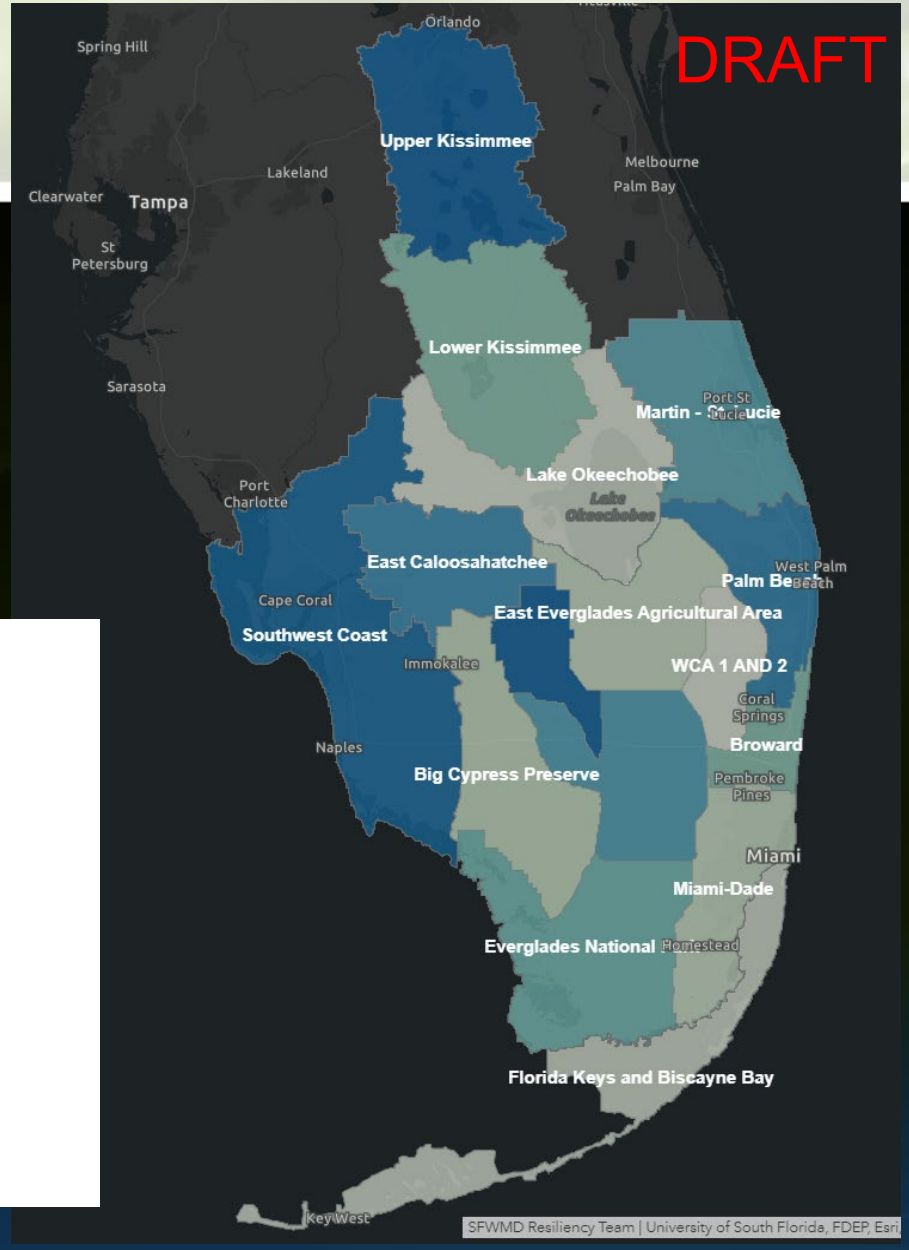
Web App Link:
Future Extreme Rainfall Change Factors for Flood Resiliency Planning in South Florida Web Application | Resilience Metrics Hub (arcgis.com)

Technical Memorandum Link:
https://apps.sfwmd.gov/sfwmd/gsdocs/TPubs/2022_SFWMD_TM_Adoption_of_Future_Extreme_Rainfall_Change_Facotrs_for_Resiliency_Planning_in_South_Florida_rev2.0.pdf

Presenter: Carolina Maran







Presenter: Carolina Maran

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Statewide Effort: Florida Flood Hub

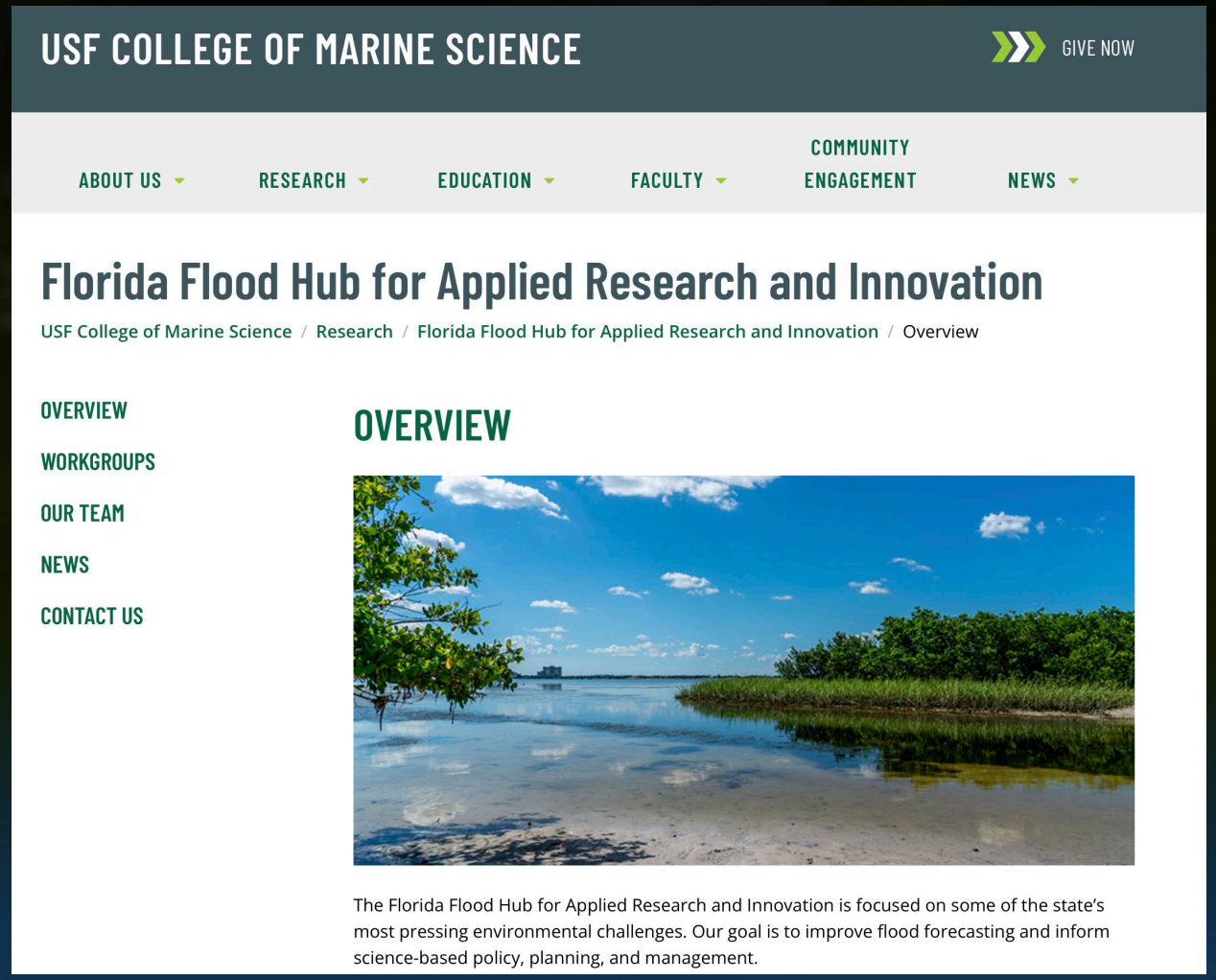
SCIENTIFIC AND TECHNICAL WORKGROUPS

SEA LEVEL RISE WORKGROUP

RAINFALL WORKGROUP

- estimate changes to the depth, duration, and frequency of extreme rainfall events
- improve short-term forecasts and longer-term projections

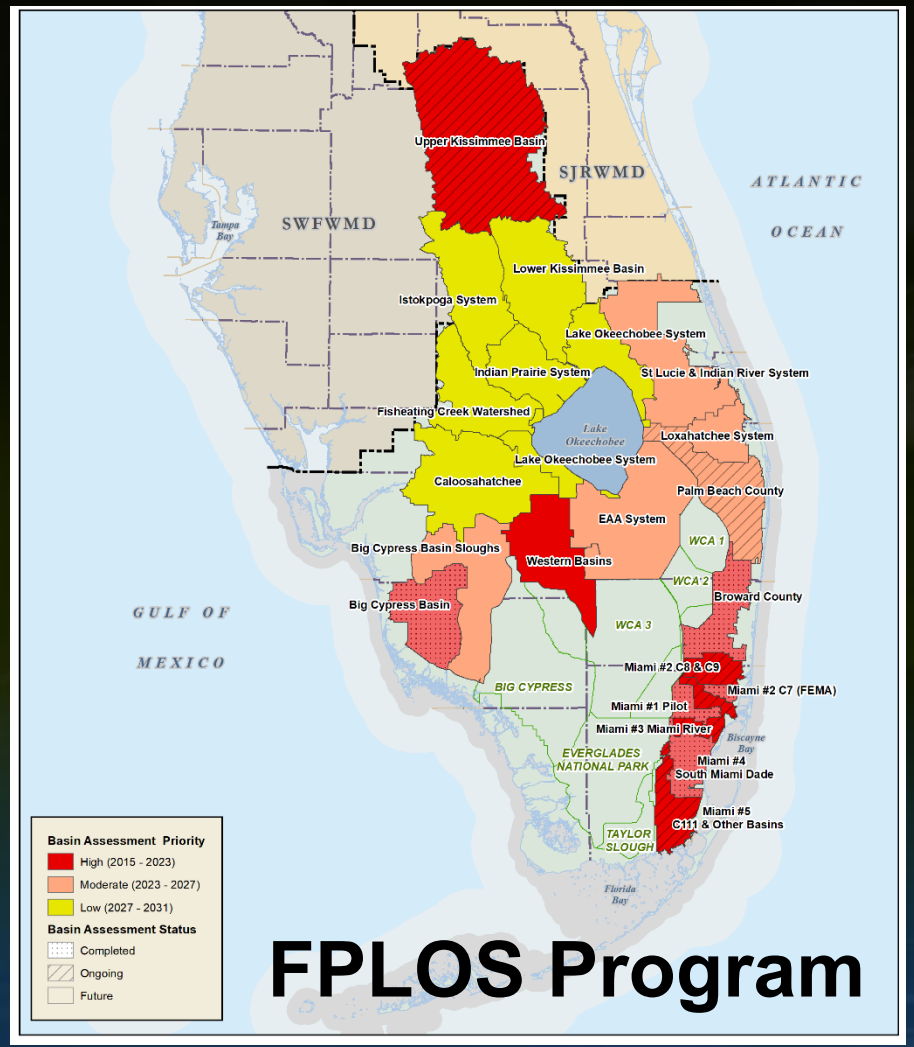
Irizarry-Ortiz, M.M., and Dixon, J., 2023, Change factors to derive projected future precipitation depth-duration-frequency (DDF) curves at 242 National Oceanic and Atmospheric Administration (NOAA) Atlas 14 stations in Florida (ver 1.1, September 2023): U.S. Geological Survey data release, https://doi.org/10.5066/P9Q3LEIL.



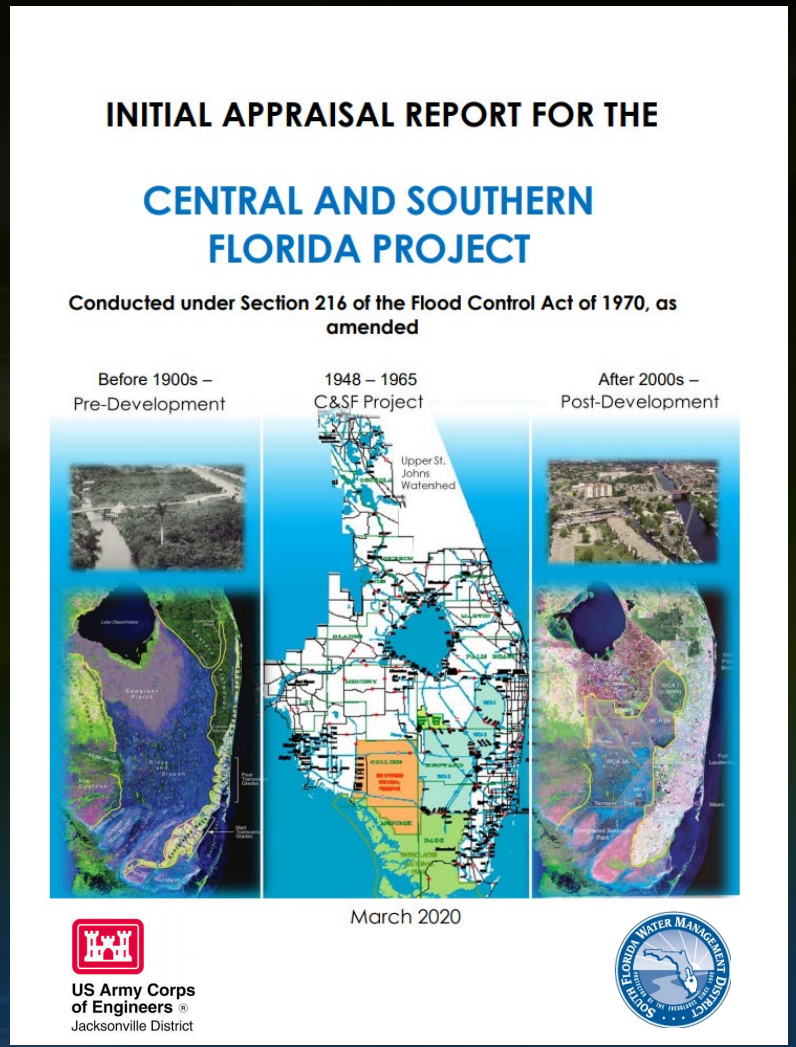
Presenter: Carolina Maran

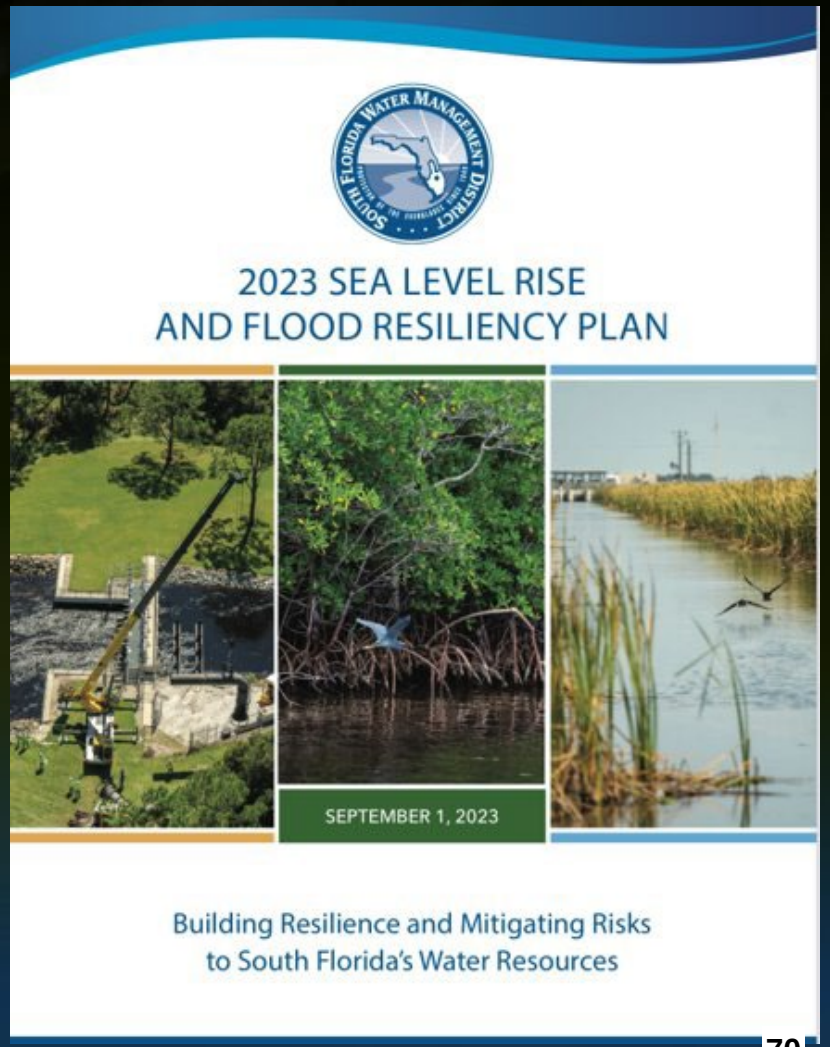
SFWMD's Future Extreme Rainfall Needs and Applications – Resiliency Planning

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FPLOS Program





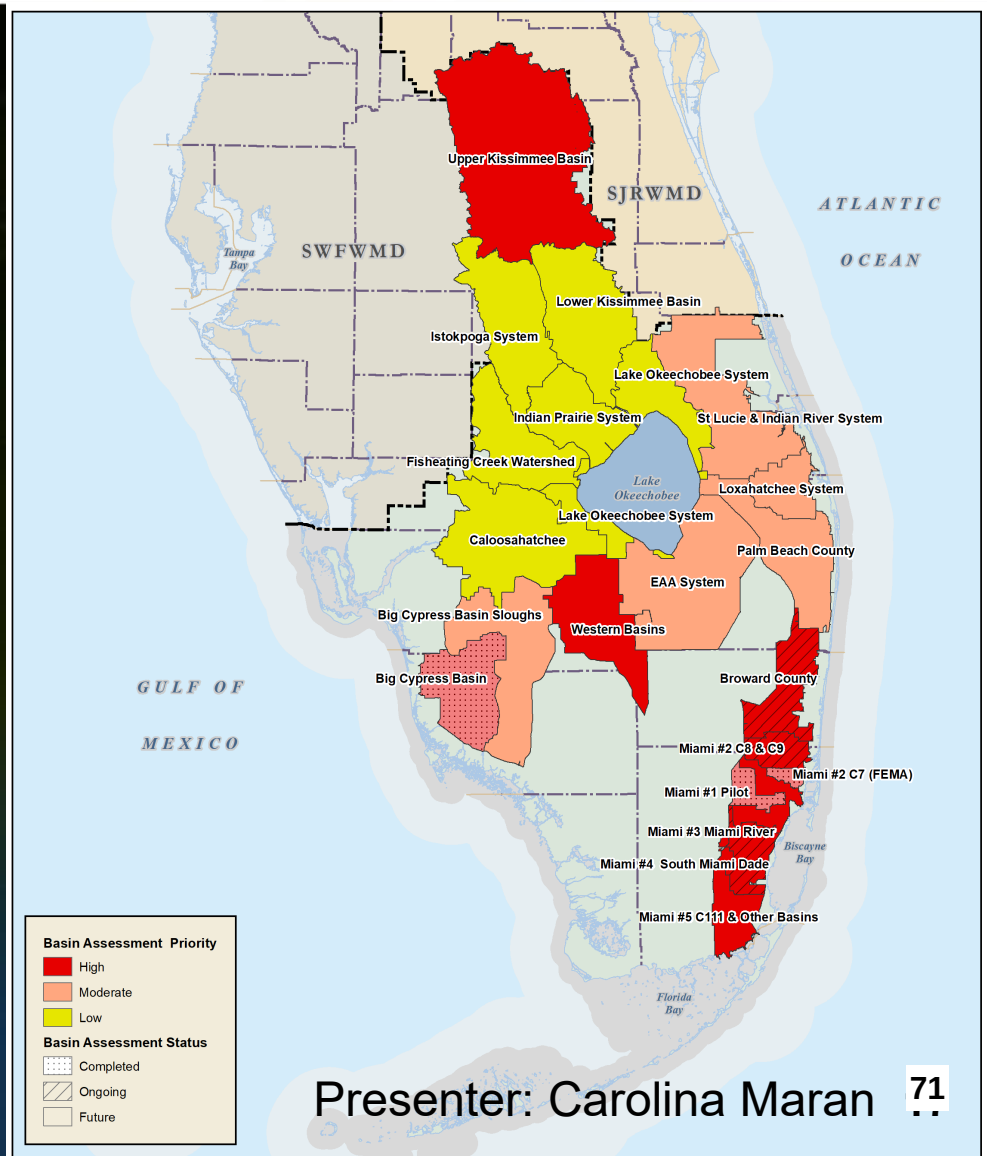
DRAFT

Flood Protection Level of Service Program

Basin by Basin Assessment of Flood Conditions

Critical District's strategy for addressing the impacts of development and climate change on the flood control mission

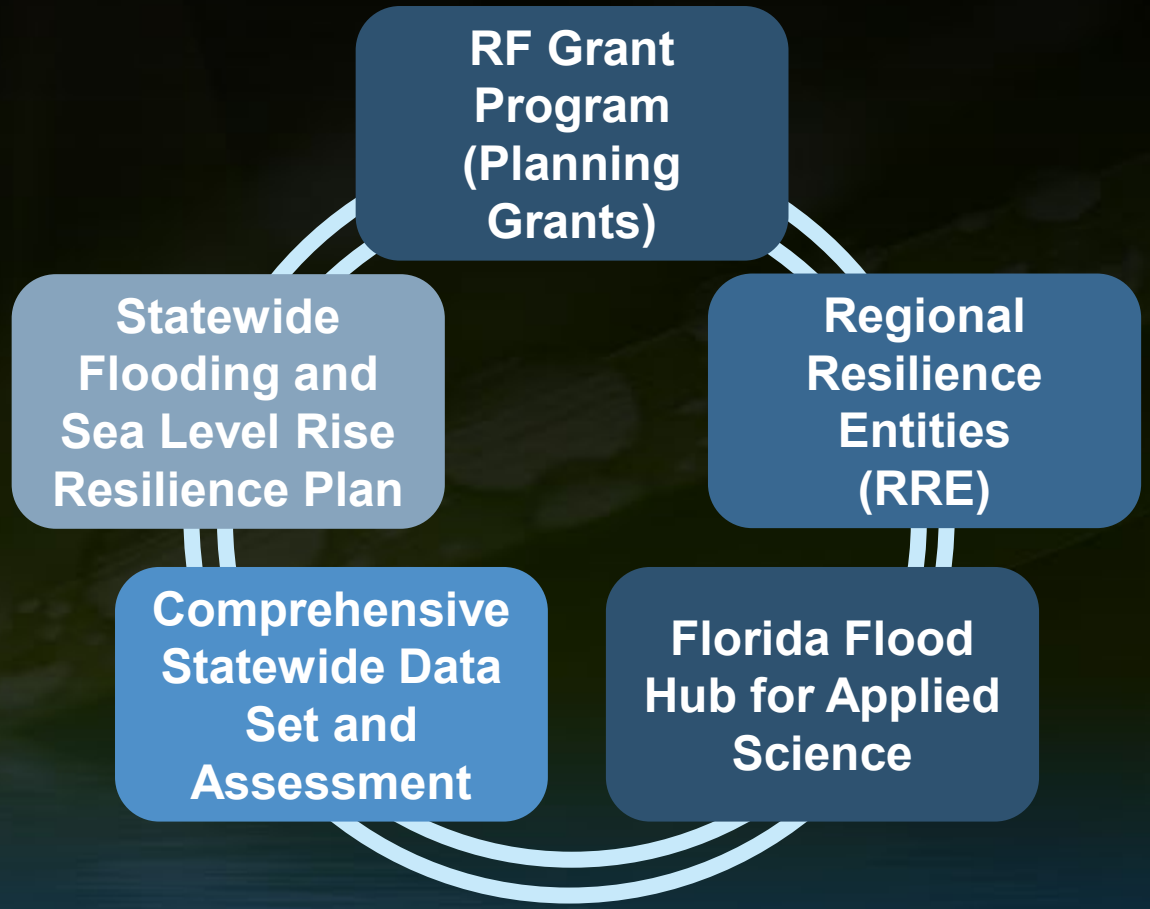
- Assess current and future flood risk in the canal system and communities basinwide
  - Considers rainfall, tide, storm surge and sea level rise
- Support decision making on prioritizing investment for improvements and adaptation
- 2018 FPLOS Phase I Big Cypress Basin Final Reports and Appendices

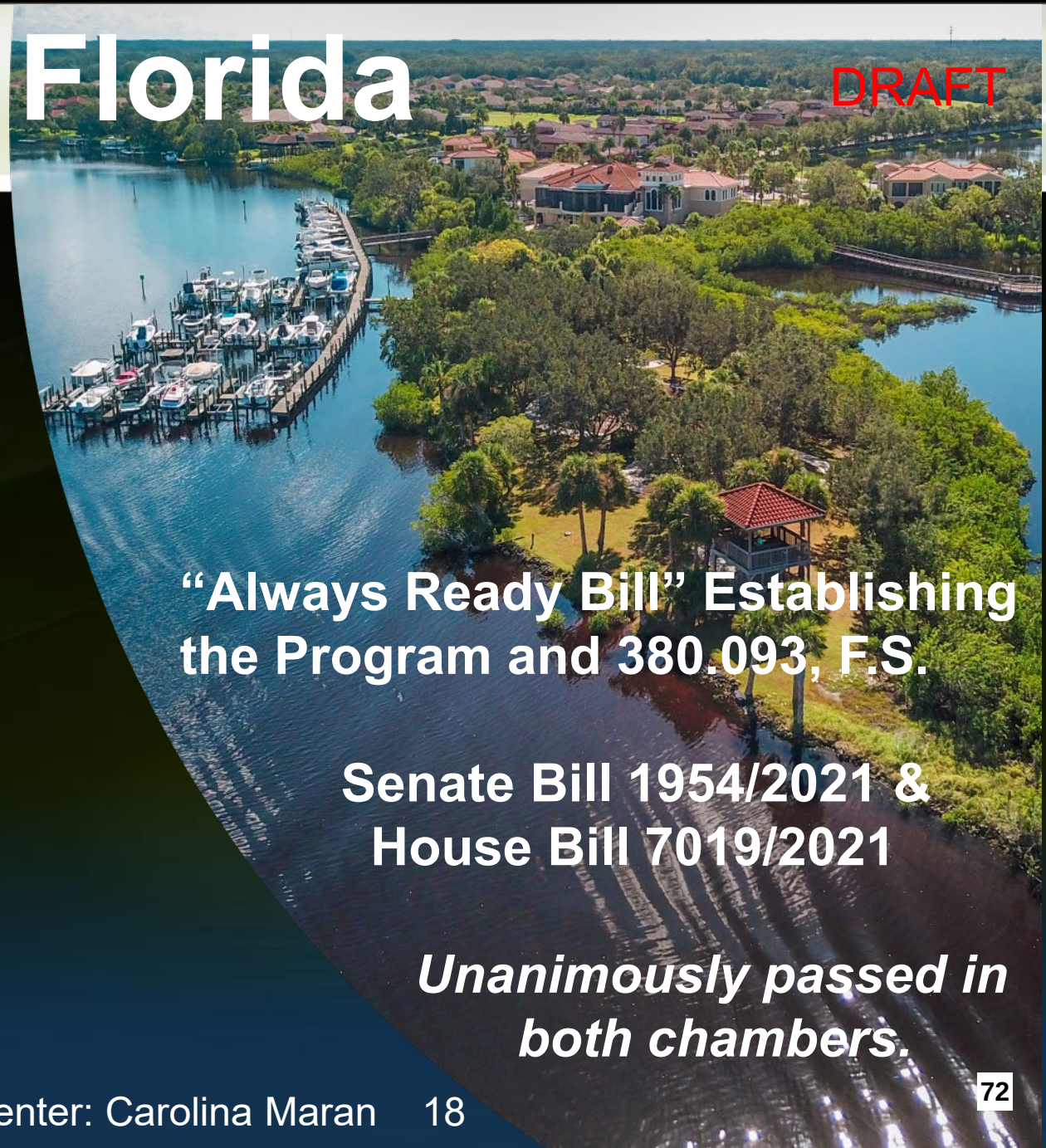


Presenter: Carolina Maran

FDEP Resilient Florida

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"Always Ready Bill" Establishing the Program and 380.093, F.S.

Senate Bill 1954/2021 & House Bill 7019/2021

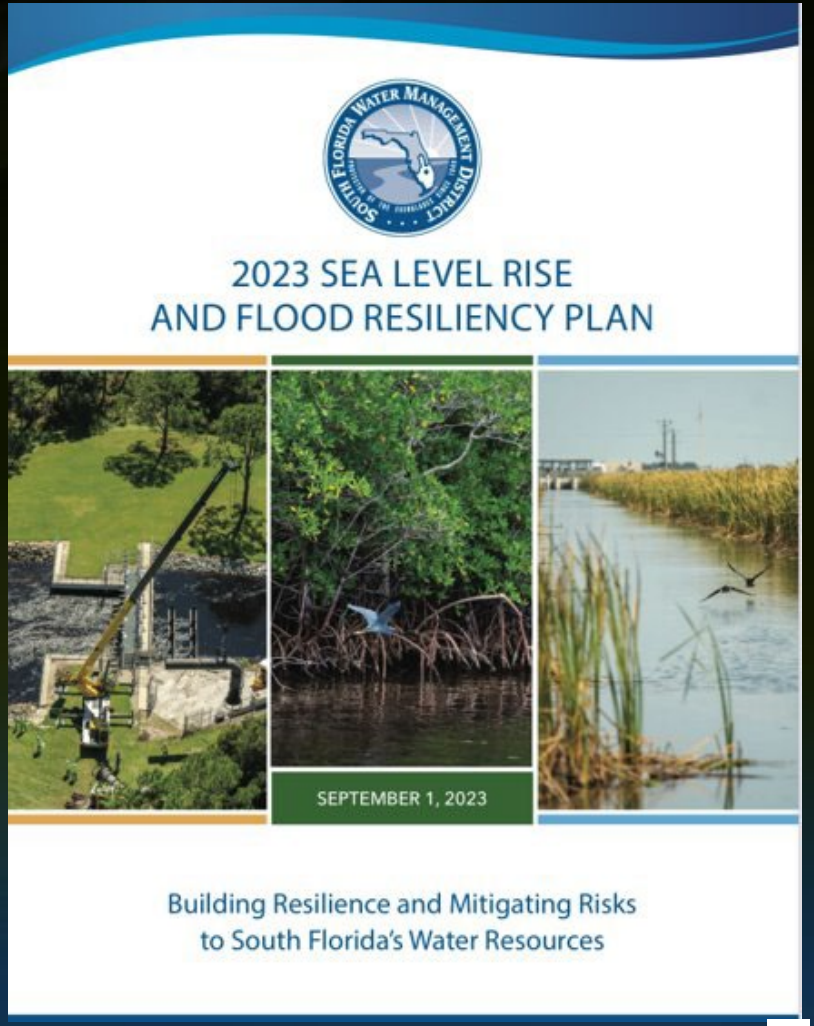
Unanimously passed in both chambers.

Slide Courtesy: Eddy Bouza, Resilient Florida Program Director, FDEP

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District Resiliency Planning

- Risk Reduction / Effectiveness
- Implementation Resources
- Anticipated Future Conditions
- Critical Infrastructure and Disadvantaged Population Impacted
- Public Engagement & Leveraging Partners
- Ongoing Ecosystem Restoration Efforts
- Innovative Green/Nature-Based Solutions
- Offsetting New Energy Demands with Sustainable Sources



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www.sfwmd.gov/our-work/sea-level-rise-and-flood-resiliency-plan

Presenter: Carolina Maran

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"…hard to recognize, but there used to be a canal somewhere in the foreground." – Merritt Canal Plugged

Ecosystem Restoration supports mitigation against sea level rise and other impacts from a changing climate.

CERP goals are aligned with the adaptation strategies needed to build Resiliency in South Florida.

Presenter: Carolina Maran

Project Implementation at BCB Basin: Self-Preservation Mode in Critical Structures

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- Optimize opening/closing gate times
- Maximize ability to operate gate during storm surge events (avoid unnecessary lockouts)
- Install electronic and mechanical components to operate remotely, part of flood hardening strategies
- “Self-preservation lockdown” system
- Install backup controller and other automation features: COCO1, 2, 3; GG1, 2, 3; HC1



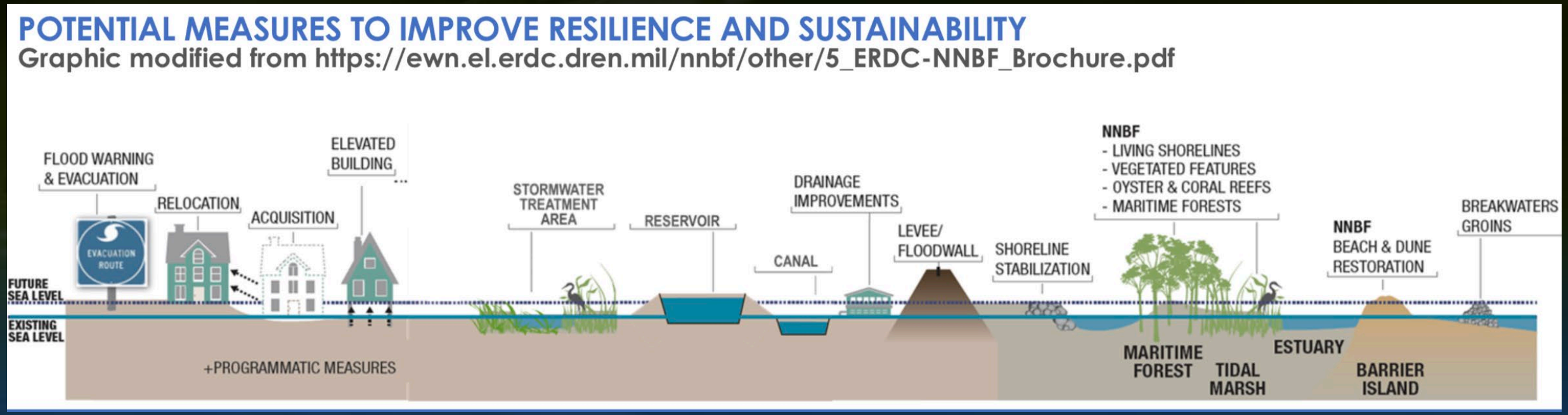


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Other Resiliency Initiatives Coordination

Integrating Inland and Coastal Flood Mitigation Strategies

Collier County / Municipalities Projects	Universities Collaboration Projects	USACE Back Bay Study	Planning Councils/ Regional Collaboratives	Others



Source: USACE

Presenter: Carolina Maran

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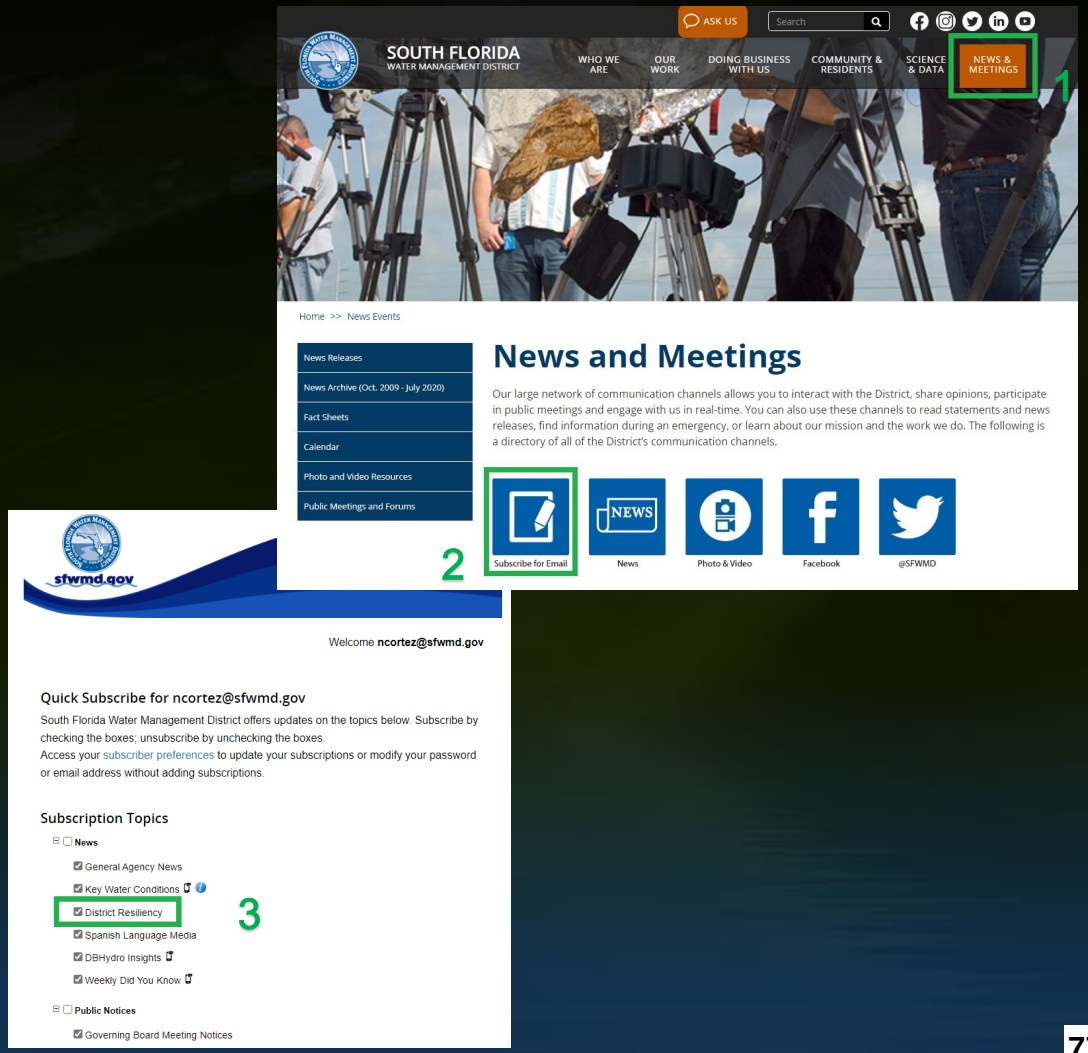
How can you be involved?

- Sign-up for our updates by visiting https://www.sfwmd.gov/news-events and following these steps:
  - 1 - Click on the “Subscribe for Email” icon
  - 2 - Enter your email address
  - 3 - Select “District Resiliency” under Subscription Topics / News

- Contribute on our initiatives and send us an email to resiliency@sfwmd.gov

- Visit www.sfwmd.gov/resiliency to get updated information

- Visit www.sfwmd.gov/meetings to attend and participate at District events



DRAFT

Thanks!

Carolina Maran, Ph.D., P.E.
cmaran@sfwmd.gov
District Resiliency Officer
South Florida Water Management District
www.sfwmd.gov/resiliency

Questions?

Photo by BCB

DRAFT

Big Cypress Basin
Field Station Activity Report



Andrew Wolf
Superintendent BCB Field Station
April 26, 2024

Overview

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- Field Station Operations
- Maintenance Activities
- Three Month Outlook



Maintenance Activities

DRAFT

Structure Inspection Program (SIP) Repairs at structures





Overhaul Gate #1 at Coco-2 Structure

DRAFT

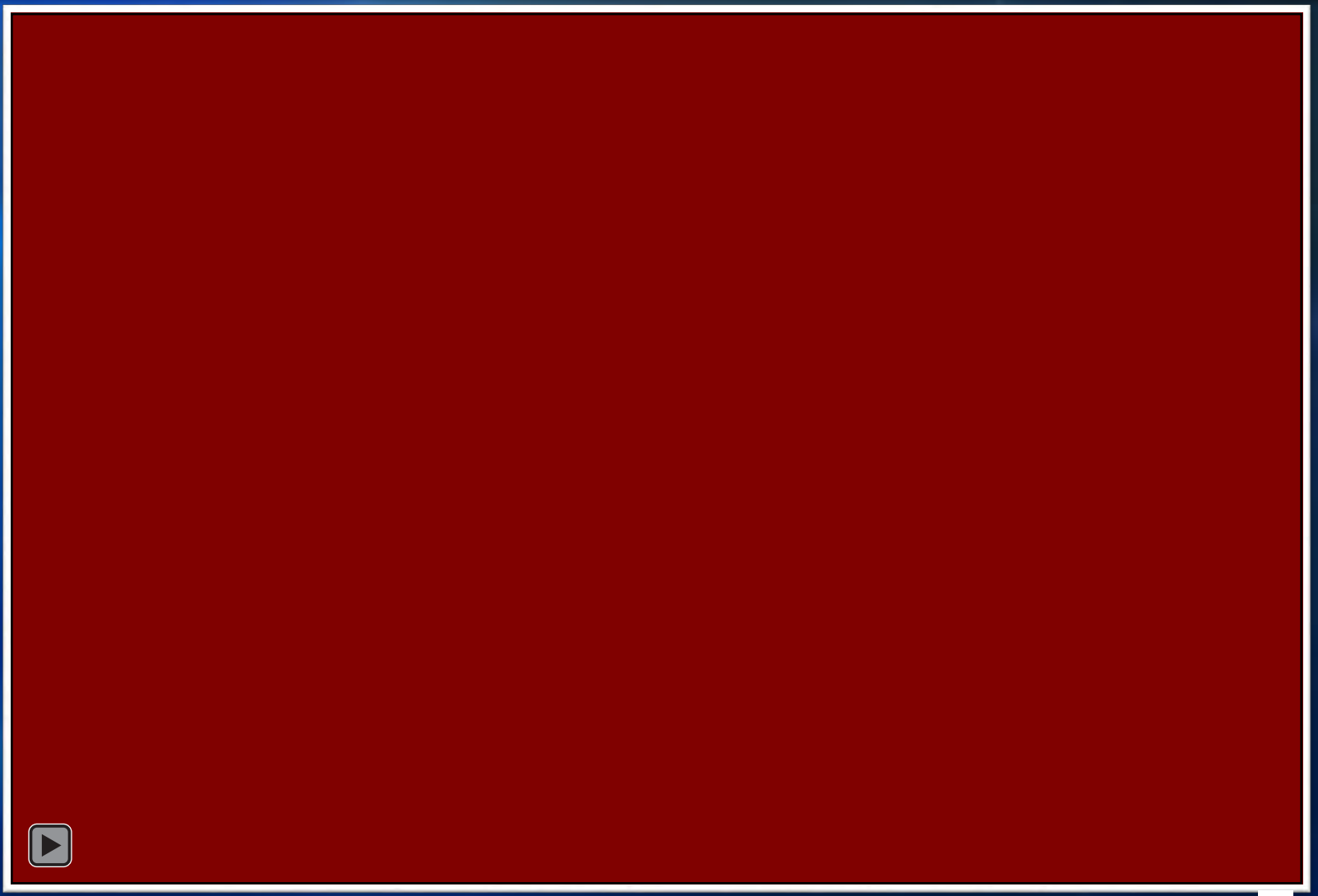
Structure Main. team reassembles gate at shop. Installed axles, guide wheels and seals



Overhaul Gate #1 at Coco-2 Structure

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Installing refurbished gate #1 at Coco #2 structure.



Overhaul Gate-2 Coco-2 Structure

DRAFT

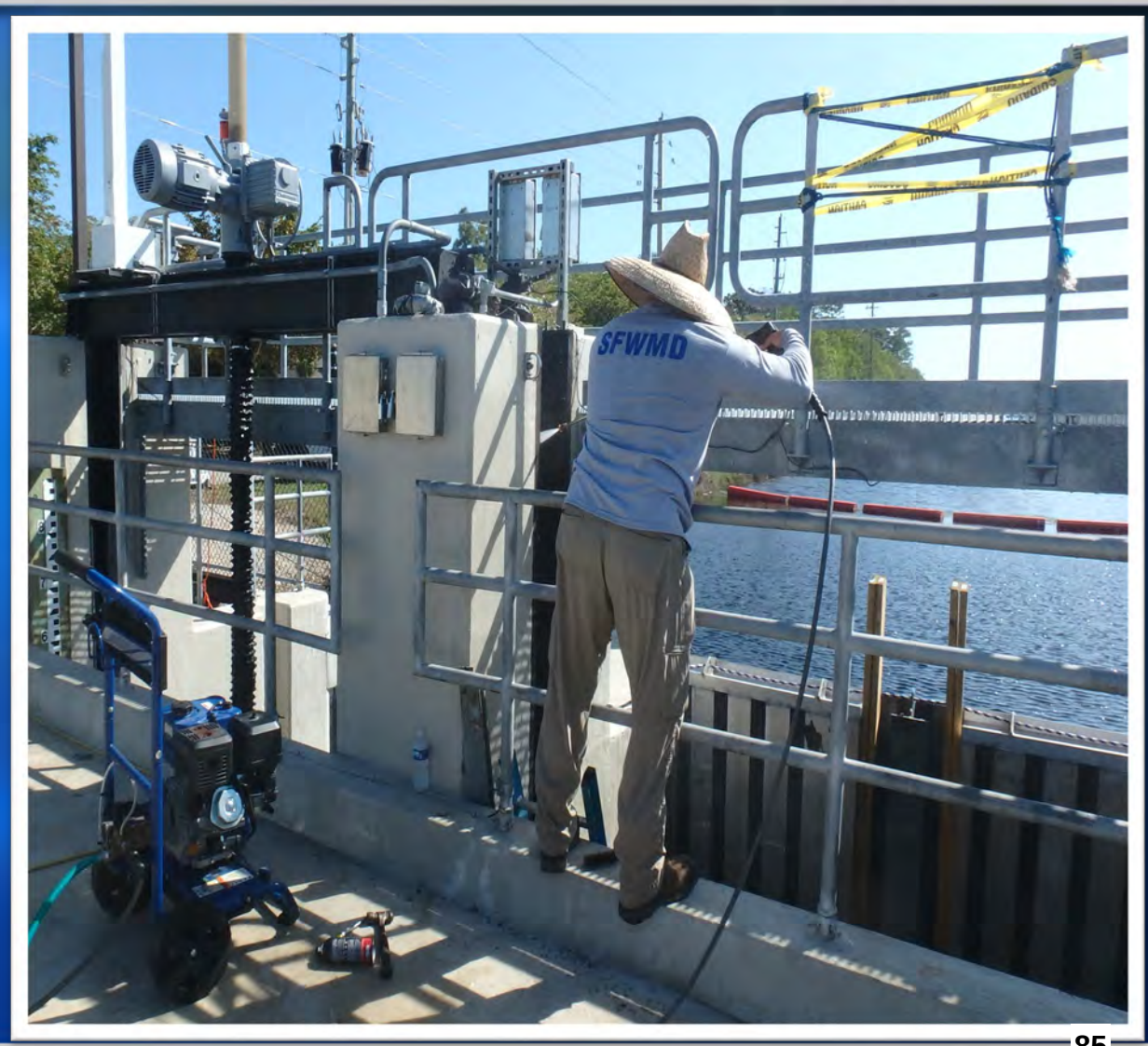
Once gate #1 was operational the overhaul to Gate #2 started.
Team installed stop logs, disassembled structure and removes gate



Overhaul Gate #2 Coco-2 Structure

DRAFT

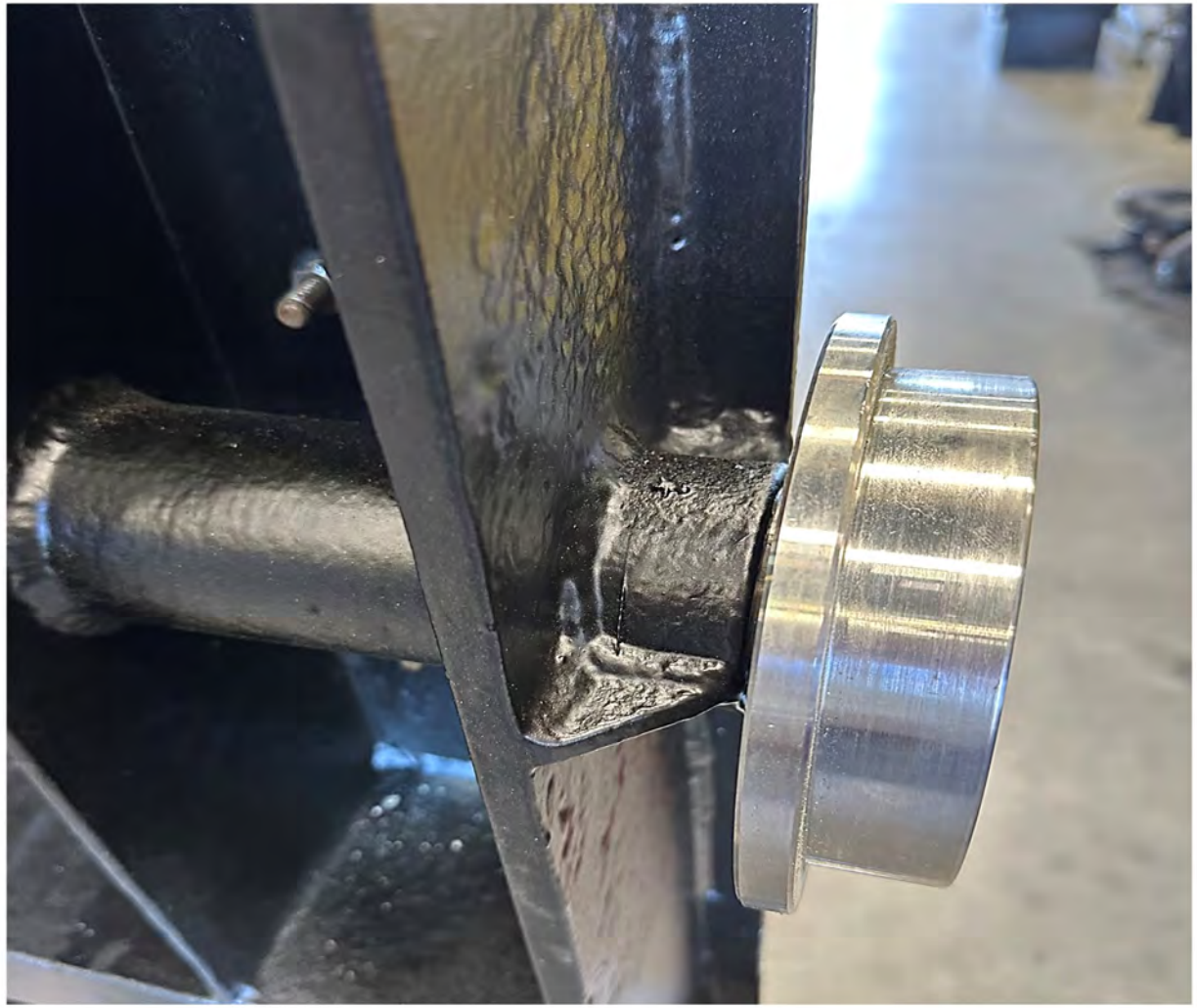
- Gate is taken back to shop and disassembled
- Parts are cleaned
- Gate and parts are hauled to West Palm Beach F/S to be sand blasted and painted.
- Structure is pressure cleaned and all exposed metal is painted.



Before and After Repairs

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Maintenance Activities

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Henderson Creek, Airport Rd. Vegetation Removal





Refurbishing Conver Hull

DRAFT





Propane Tank Upgrades

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Propane Tanks were switched from 250 gallons to 500 gallons to run the generators at the following structures:

- Golden Gate-1
- Coco-1
- Coco-2
- Coco-3



Annual Pre-Hurricane Season Flight

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On April 4th a helicopter inspection was performed of every canal and structure in the Big Cypress Basin area of responsibility.





Three Month Outlook

DRAFT

- Continuing SIP (Structure Inspection Program) repairs.
- Complete installing gate #2 and having Coco-2 ready for wet season operations.
- Start Henderson Creek Tree Project in May-June.
- Delivery of new Ford Lightning (electric truck) in May?



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MERRITT Pump Station
PS-488



FAKA Union Pump Station
PS-487



MILLER Pump Station
PS-486

Comprehensive Everglades Restoration Projects (CERP)
Activity Report

Pump Station Maintenance Merritt #2

DRAFT

Received the pump back from Southeast Pump (Tampa)



Pump Station Maintenance

DRAFT

Repairs made to the prop and diffuser, pump #2





Pump Station Maintenance

DRAFT

Reassembling pump #2



SIP Repairs Miller Pump Station

DRAFT



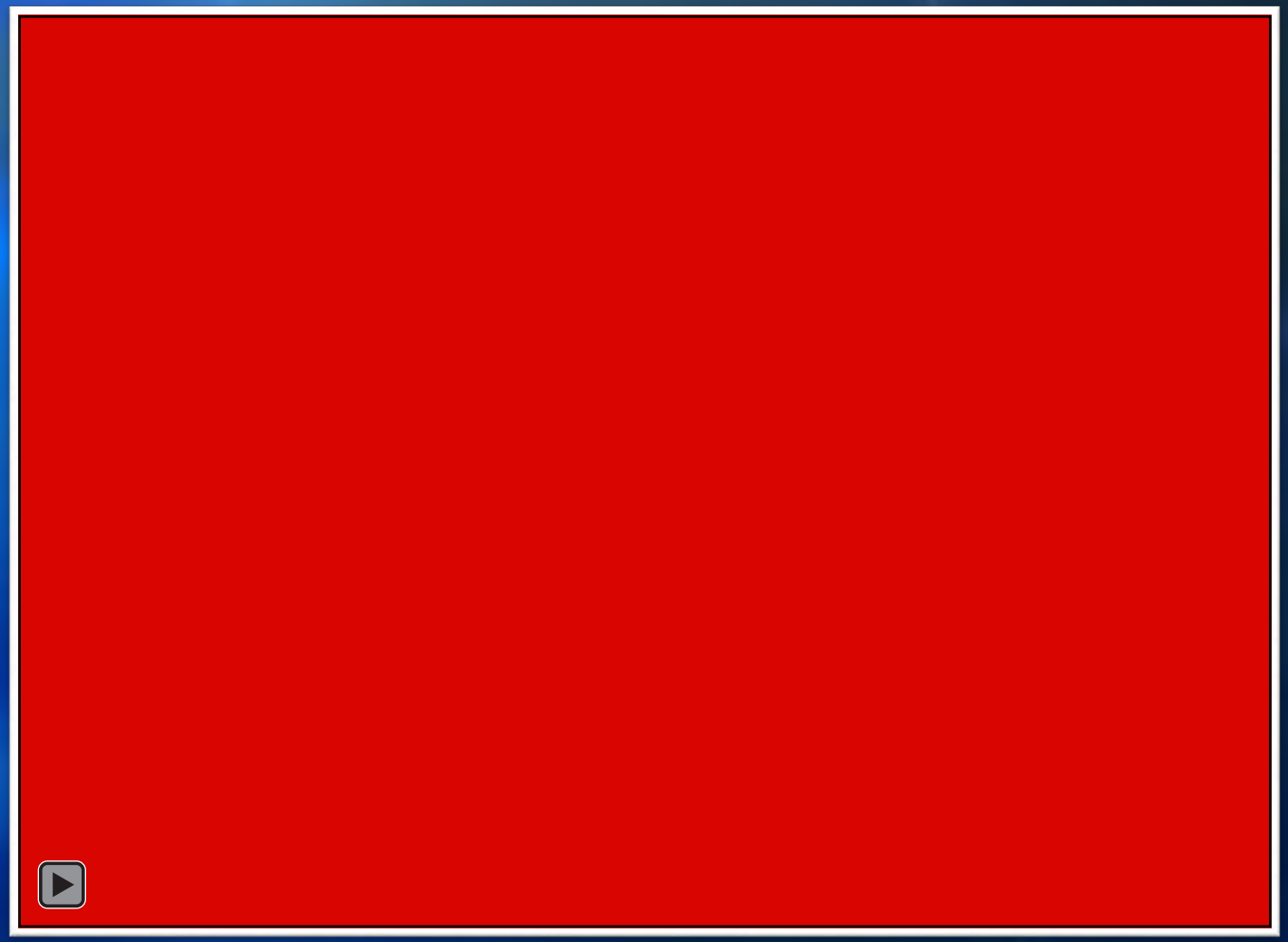


Presenter: Andrew Wolf

Three Month Outlook

DRAFT

- Respond to dry/wet season pump orders and issues.
- Complete installation of new shaft in pump #2 at Merritt P/S by May1
- Continue SIP (Structure Inspection Program) repairs
- Continue training three new employees on operations.



Hazards at Pump Station

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Panther walking across trash rake bridge at Merritt P/S



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Questions





sfwmd.gov

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BIG CYPRESS BASIN BOARD MEETING

BCB WATER CONDITIONS REPORT
APRIL 26, 2024

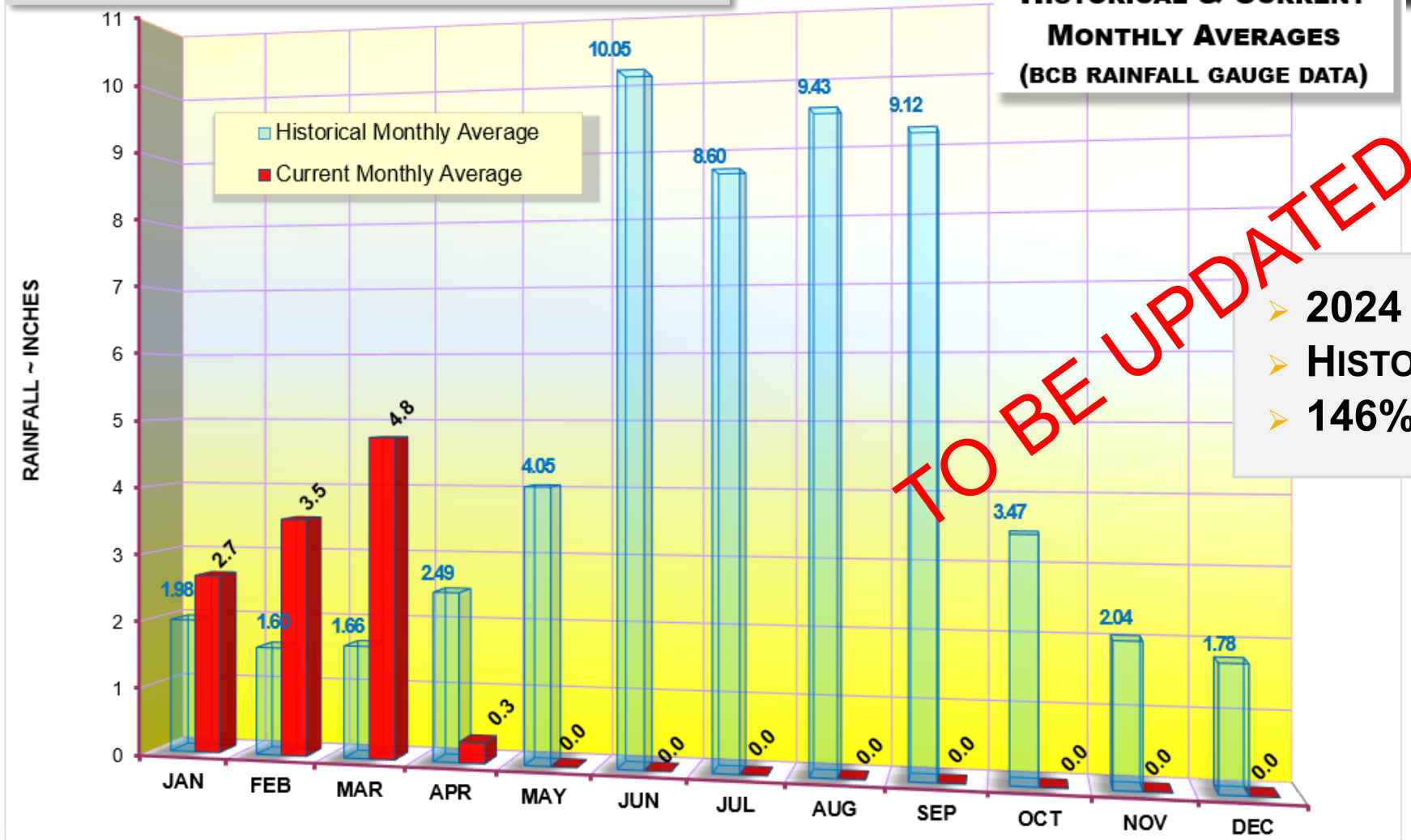


Brad Jackson, P.E.
Principal Engineer
Big Cypress Basin

2024 Rainfall Summary

DRAFT

2024 Monthly Summary

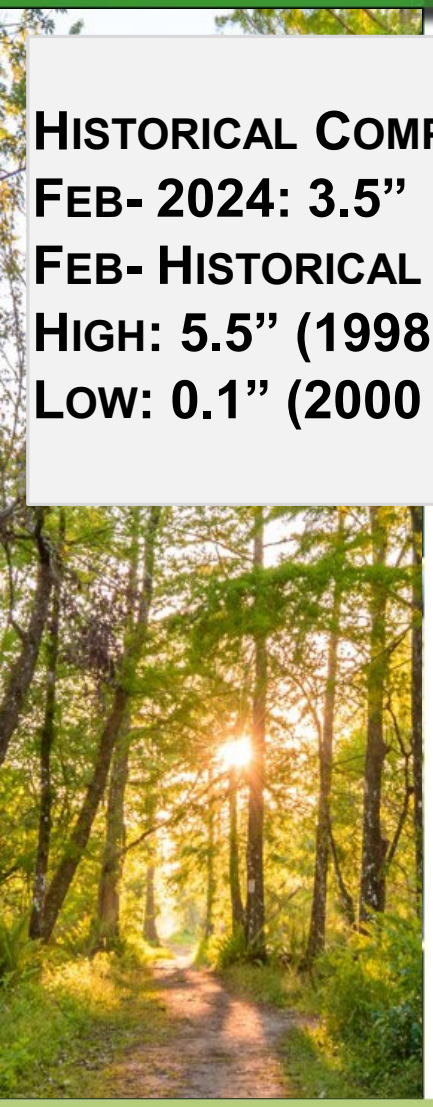


- 2024 YTD Total = 11.31 "
- Historical Avg Total = 7.7 "
- 146% of Normal YTD

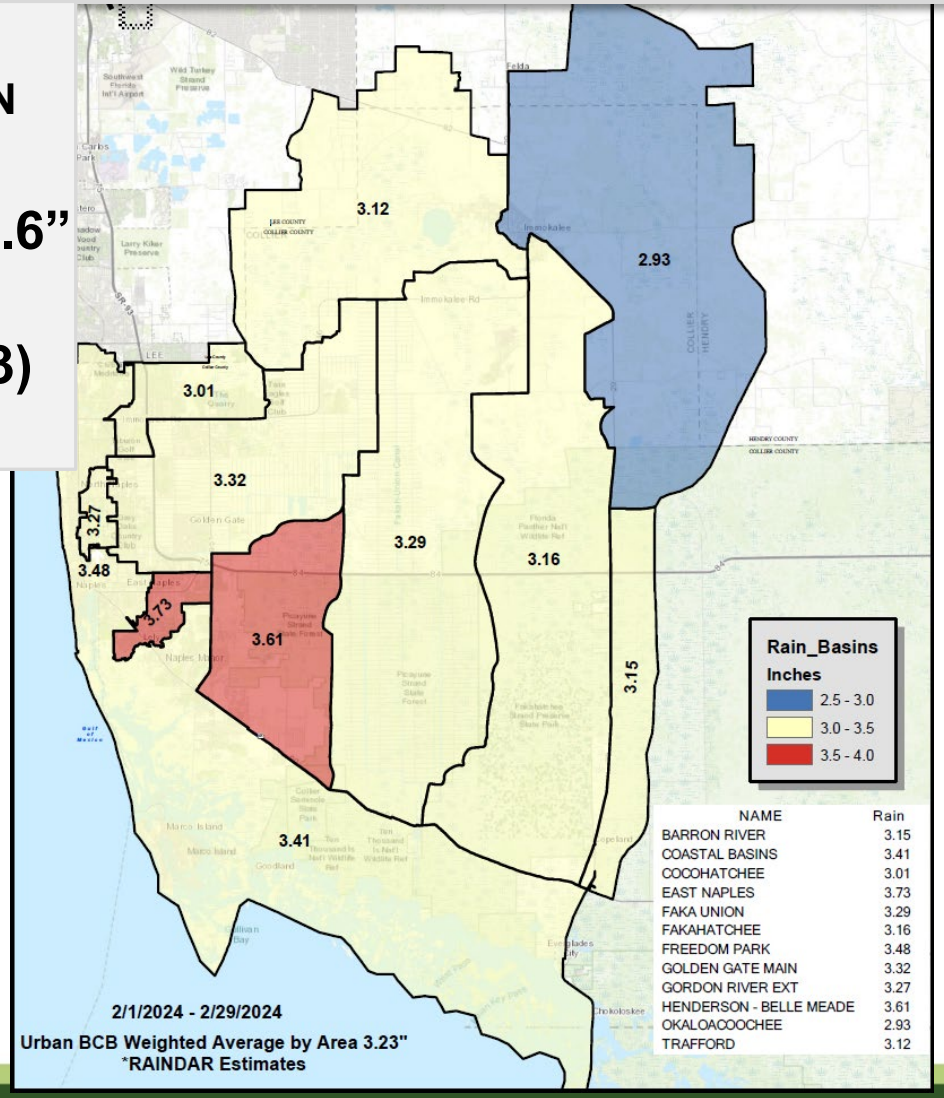
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Hydrologic Conditions ~ BCB Rainfall

February 2024 by Basin

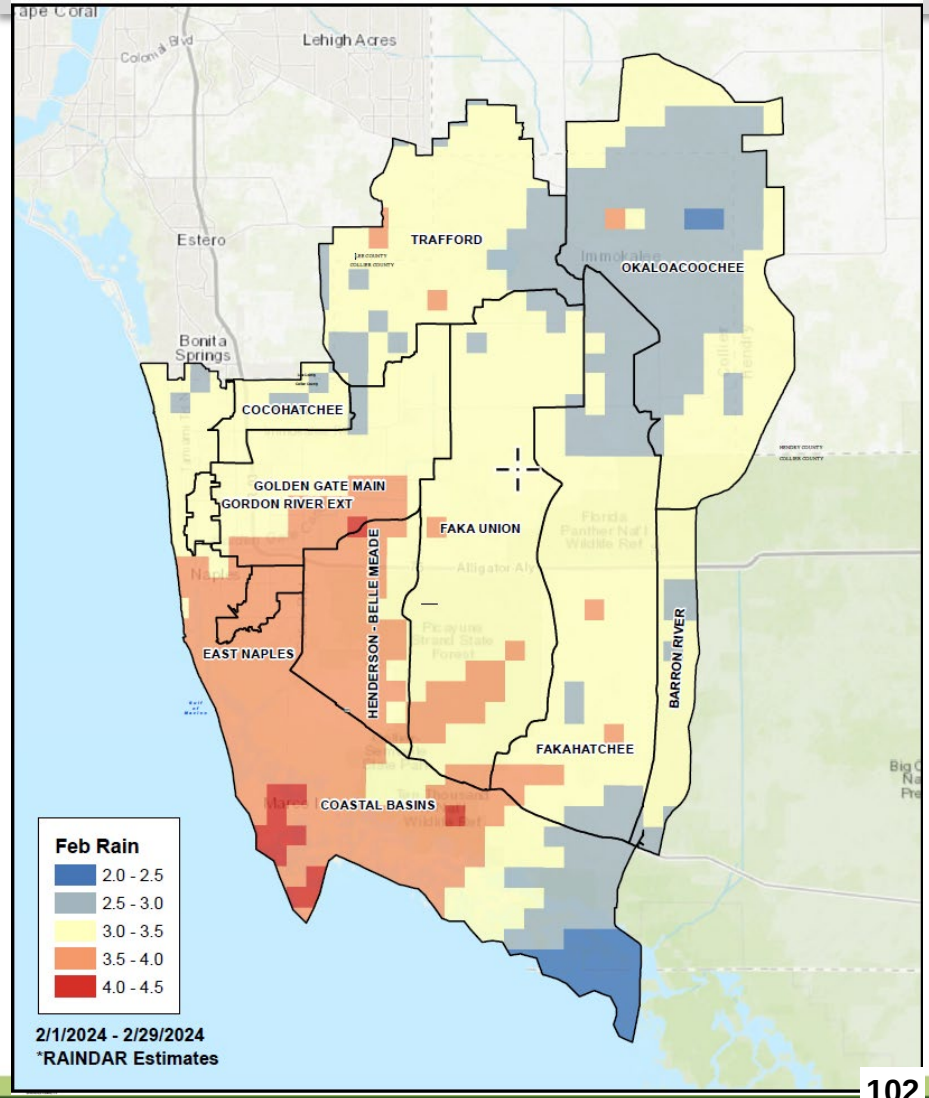


Historical Comparison
Feb- 2024: 3.5”
Feb- Historical Avg: 1.6”
High: 5.5” (1998)
Low: 0.1” (2000 & 2023)



NAME	Rain
BARRON RIVER	3.15
COASTAL BASINS	3.41
COCOHATCHEE	3.01
EAST NAPLES	3.73
FAKA UNION	3.29
FAKAHATCHEE	3.16
FREEDOM PARK	3.48
GOLDEN GATE MAIN	3.32
GORDON RIVER EXT	3.27
HENDERSON - BELLE MEADE	3.61
OKALOACOOCHEE	2.93
TRAFFORD	3.12

February 2024 Raindar



Presenter: Brad Jackson

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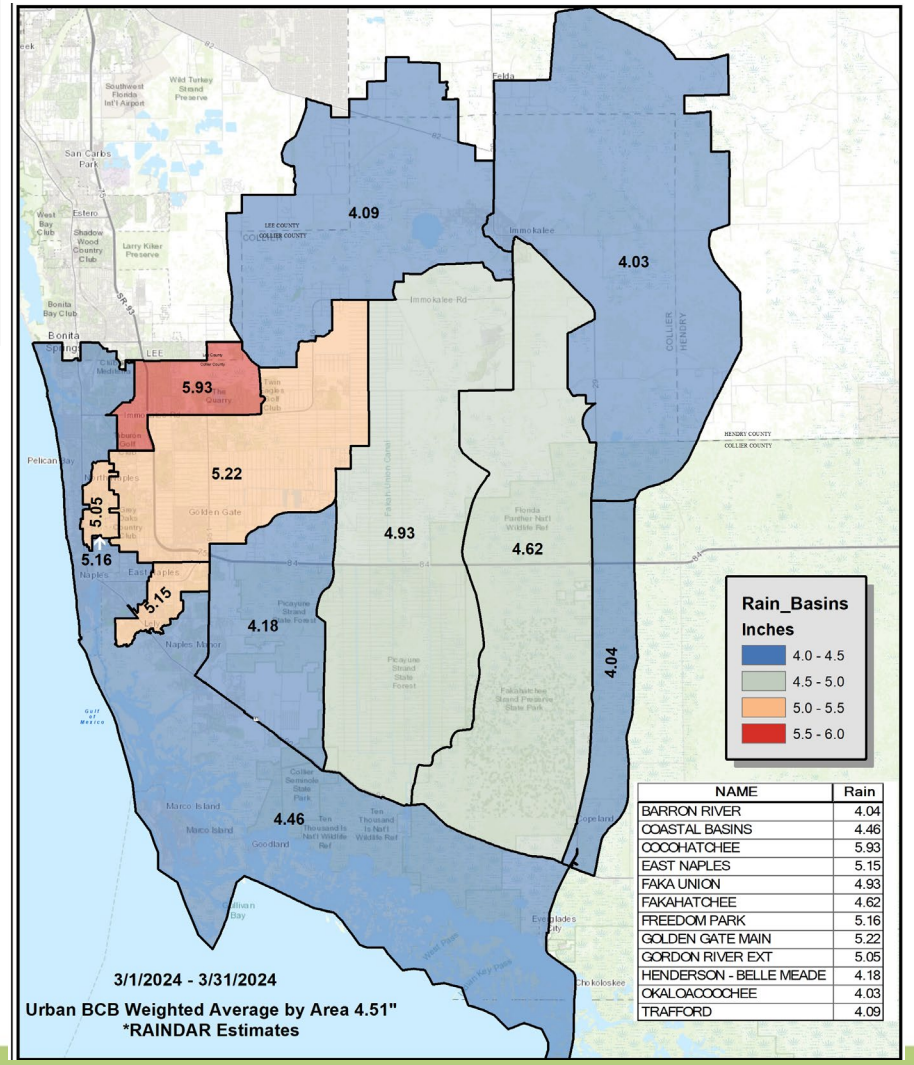
Hydrologic Conditions ~ BCB Rainfall

March 2024 by Basin

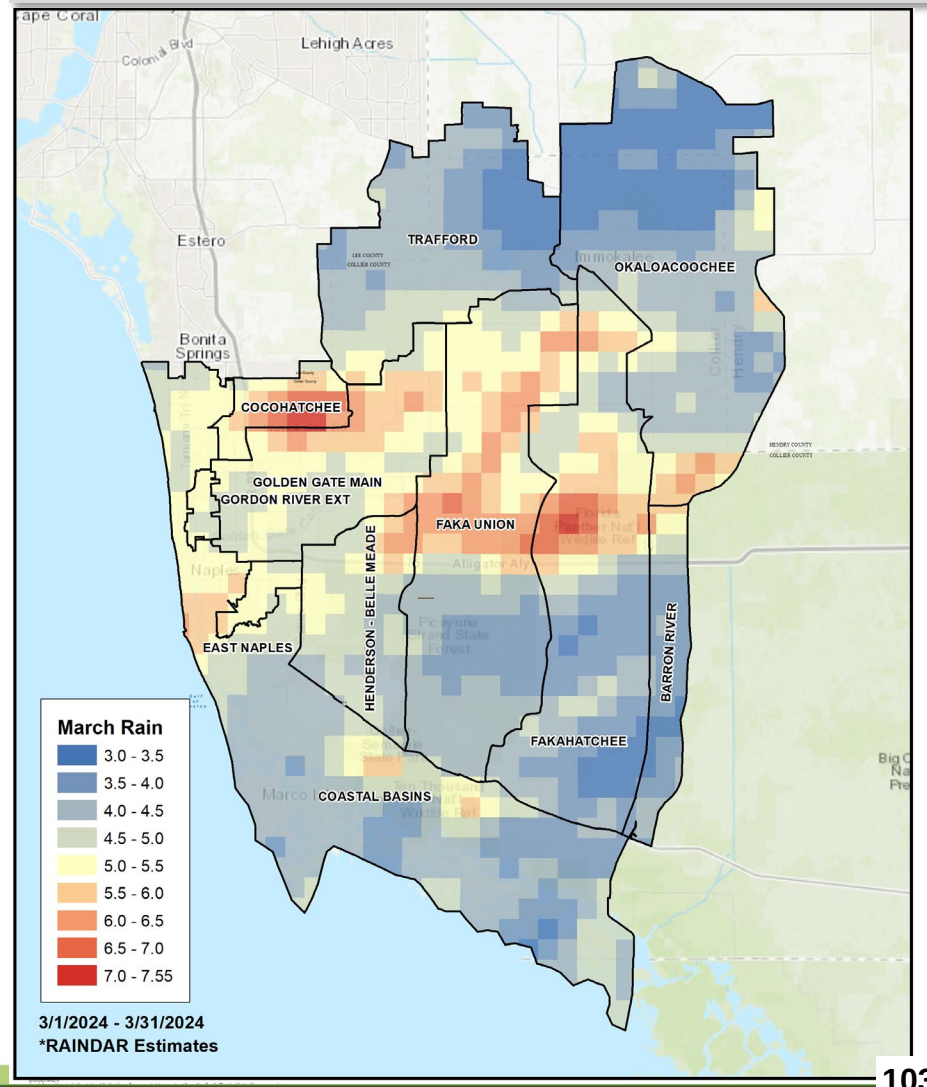
March 2024 Raindar

Historical Comparison
Mar- 2024: 4.8"
Mar- Historical Avg: 1.7"
High: 6.3" (2010)
Low: 0.2" (2004)





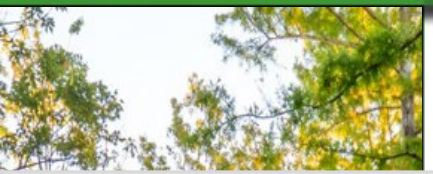
NAME	Rain
BARRON RIVER	4.04
COASTAL BASINS	4.46
COCOHATCHEE	5.93
EAST NAPLES	5.15
FAKA UNION	4.93
FAKAHATCHEE	4.62
FREEDOM PARK	5.16
GOLDEN GATE MAIN	5.22
GORDON RIVER EXT	5.05
HENDERSON - BELLE MEADE	4.18
OKALOACOOCHEE	4.03
TRAFFORD	4.09



Presenter: Brad Jackson

DRAFT

Hydrologic Conditions ~ BCB Rainfall



Historical Comparison

Apr- 16th 2024: 0.3”

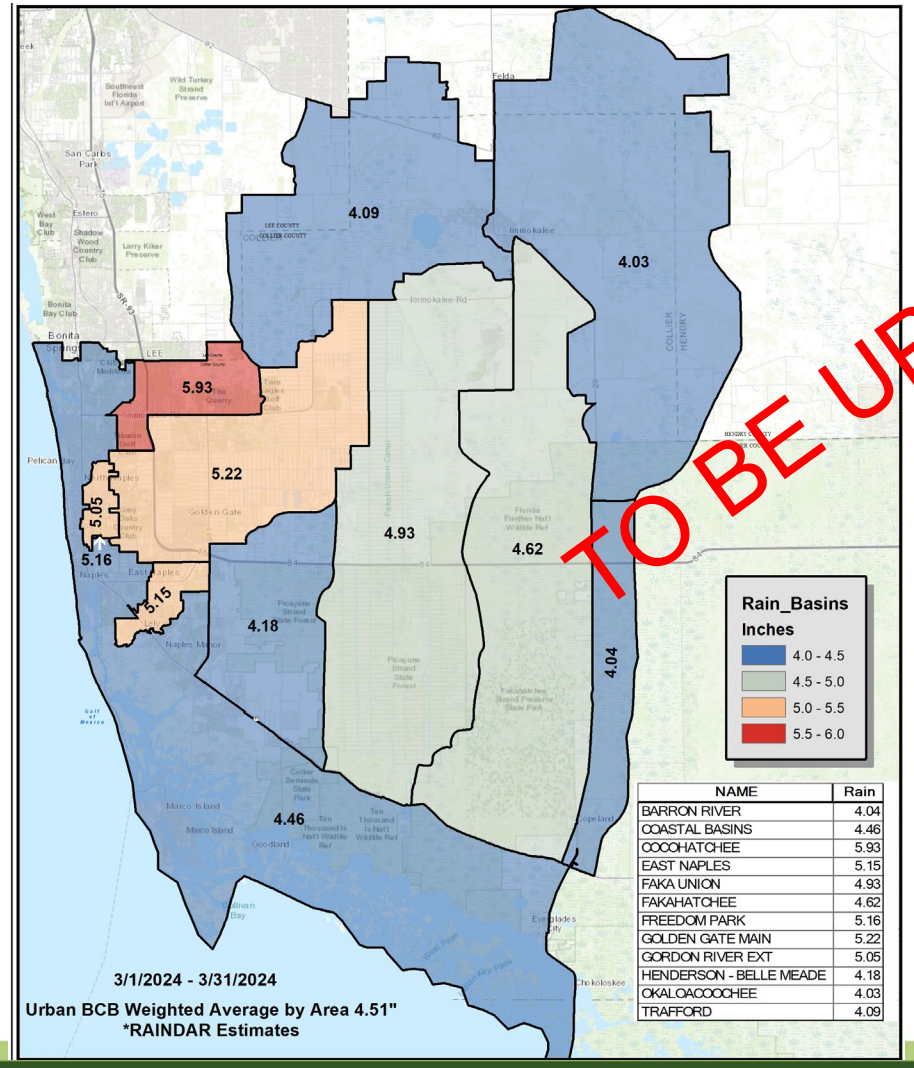
Apr- Historical Avg: 2.5”

High: 6.2” (2010)

Low: 0.3” (1998)



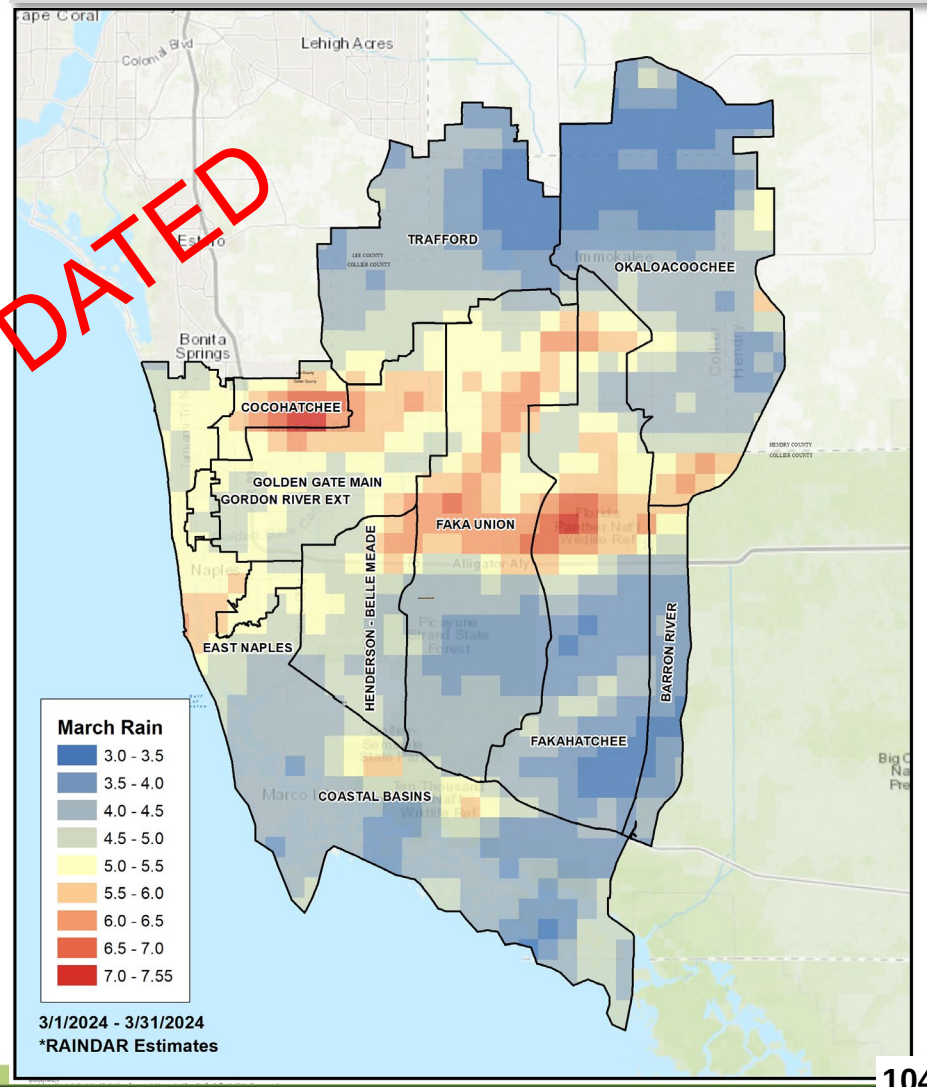
April 2024 by Basin



NAME	Rain
BARRON RIVER	4.04
COASTAL BASINS	4.46
COCOHATCHEE	5.93
EAST NAPLES	5.15
FAKA UNION	4.93
FAKAHATCHEE	4.62
FREEDOM PARK	5.16
GOLDEN GATE MAIN	5.22
GORDON RIVER EXT	5.05
HENDERSON - BELLE MEADE	4.18
OKALOACOOCHEE	4.03
TRAFFORD	4.09

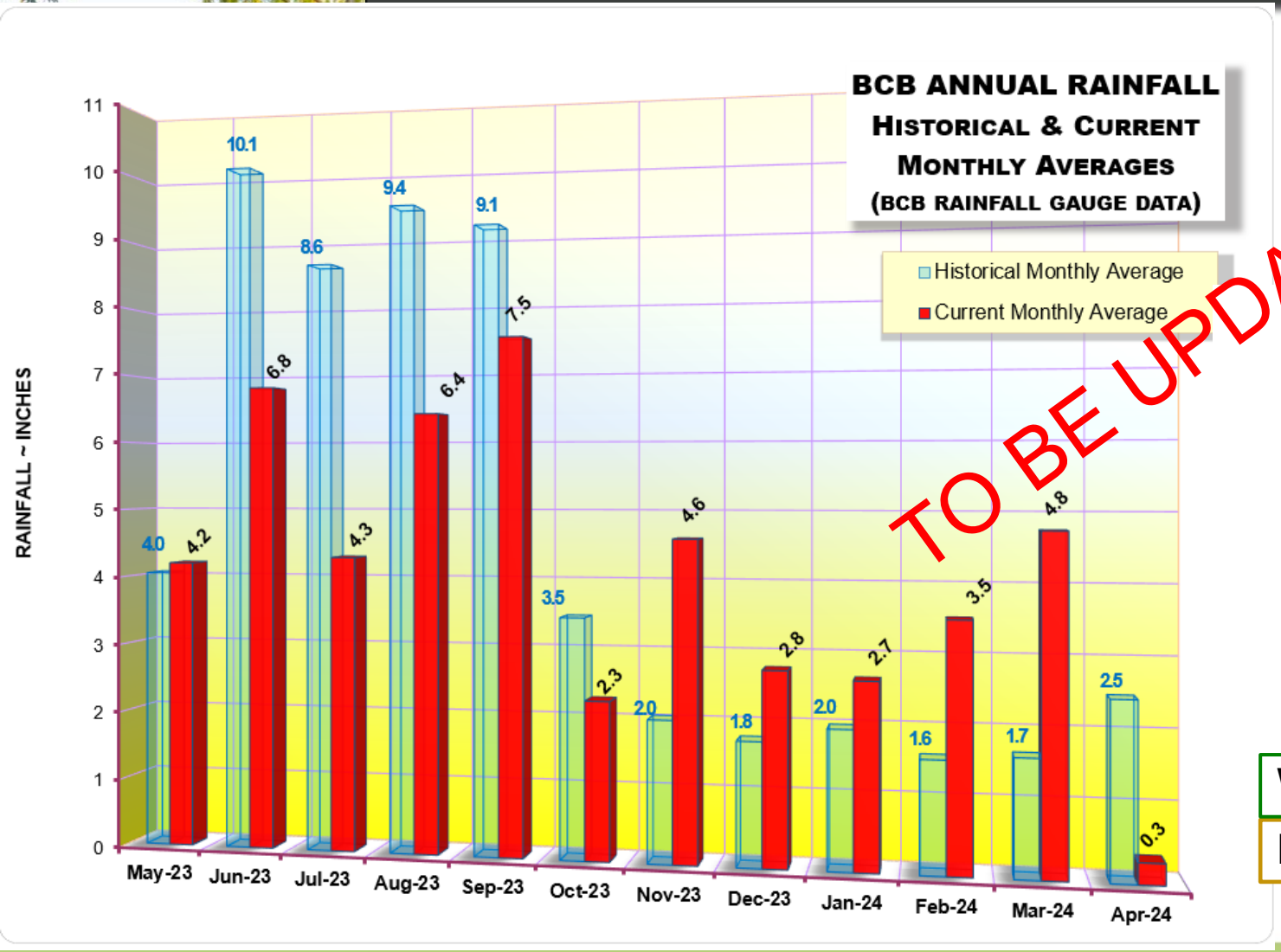
TO BE UPDATED

April 2024 Raindar

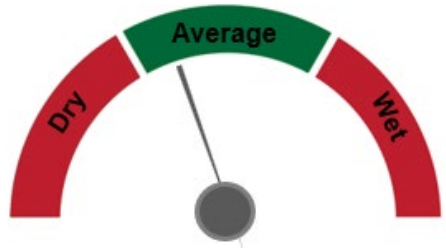


DRAFT

BCB Water Year Summary



TO BE UPDATED



Water Year Rainfall
May 1, 2023 – April 15, 2024

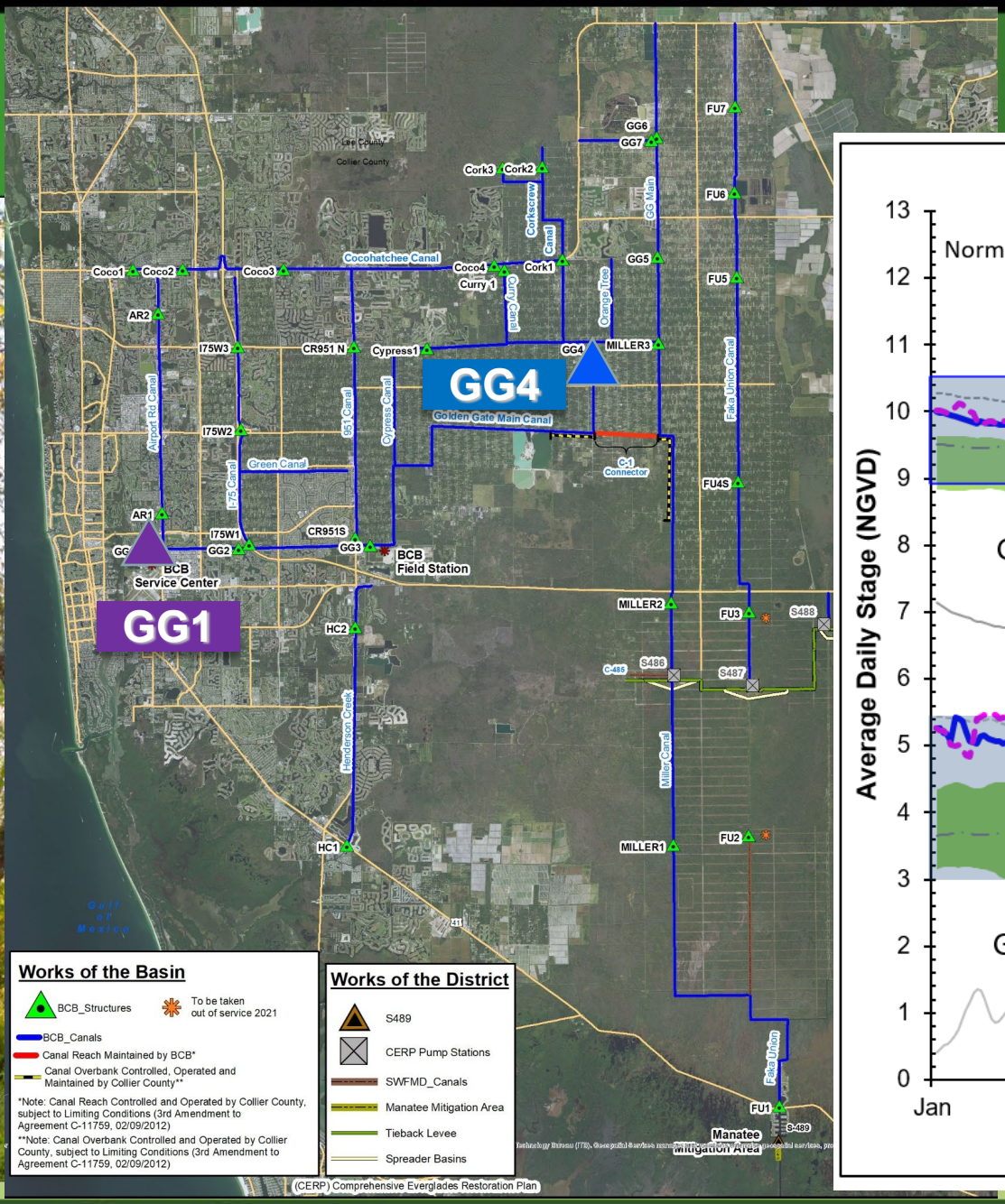
BCB Total Rainfall: 50.10"
Basin Avg Total: 56.27"
Water Year: 5.76" deficit

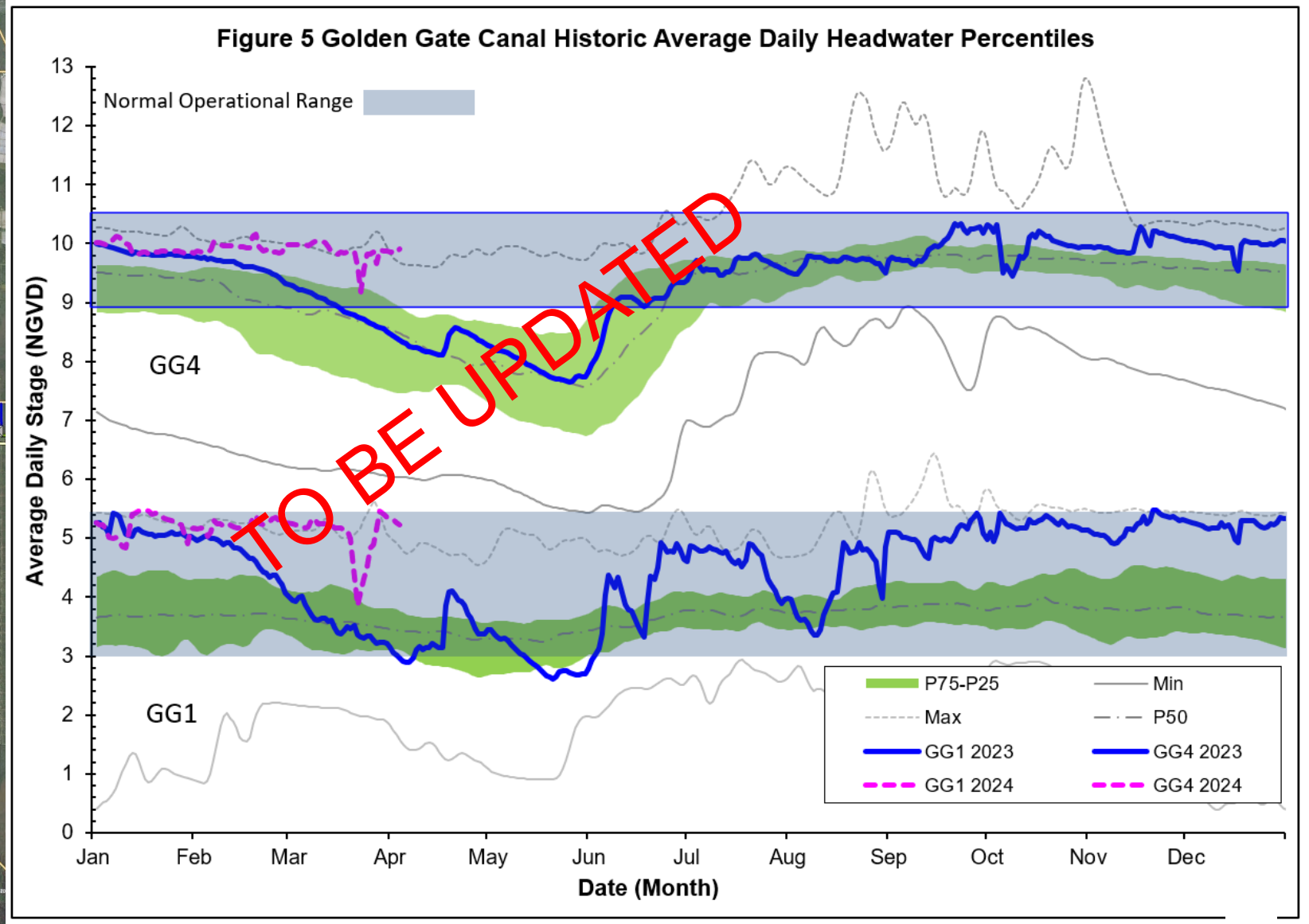
Wet Season: 71% of average (-12.05")

Dry Season: 153% of average (+6.29")

BCB Golden Gate Canal

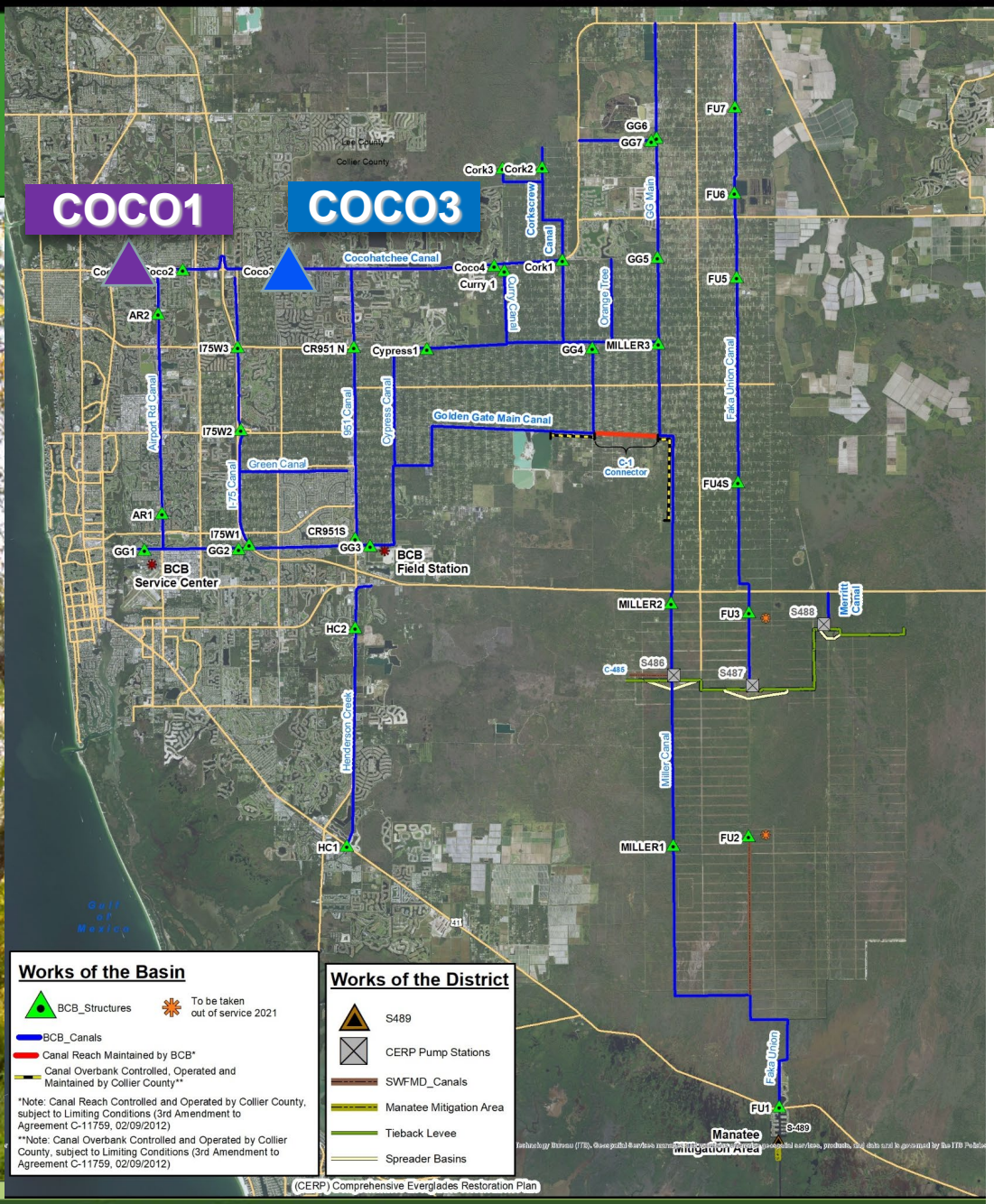
DRAFT

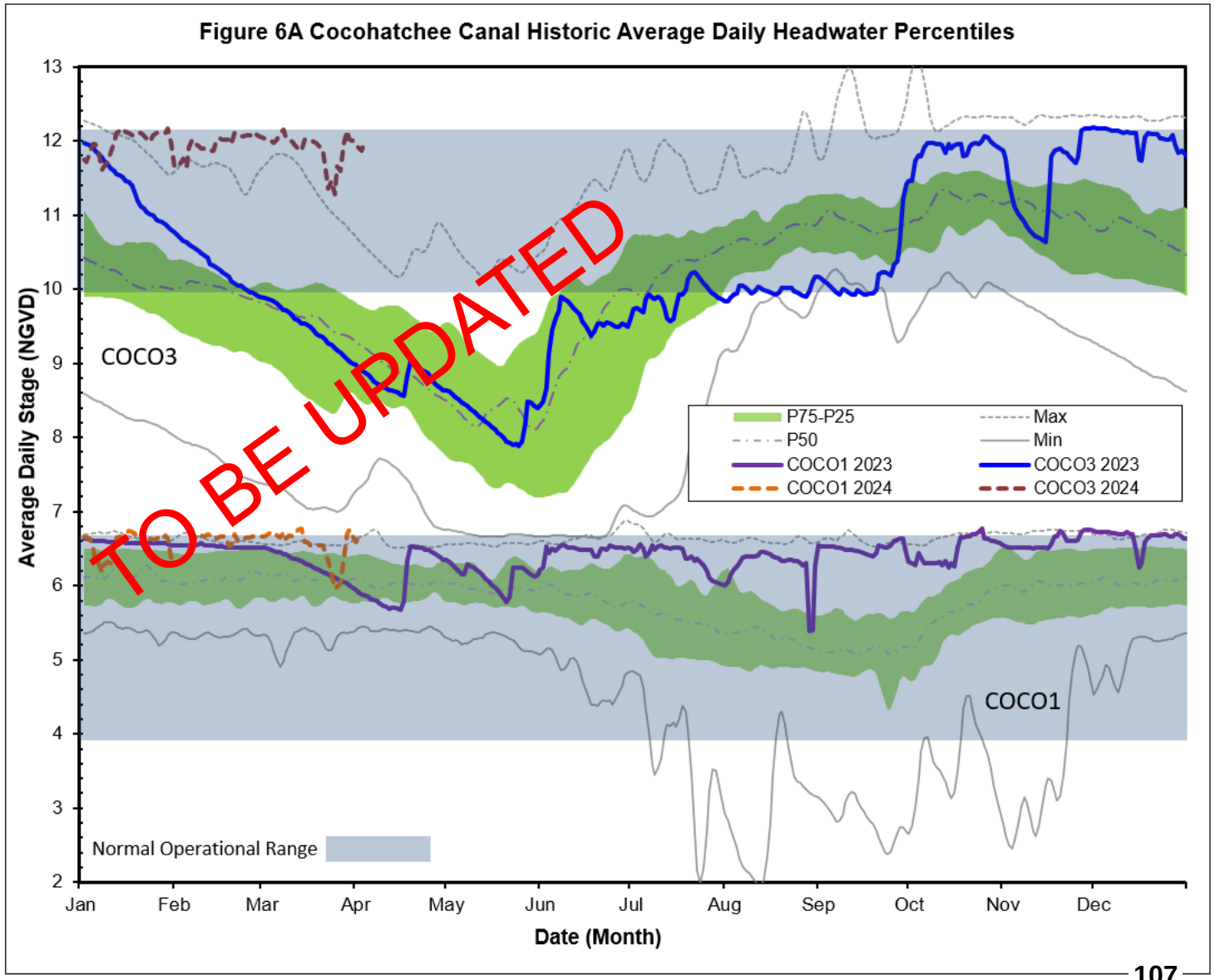




BCB Cocohatchee Canal

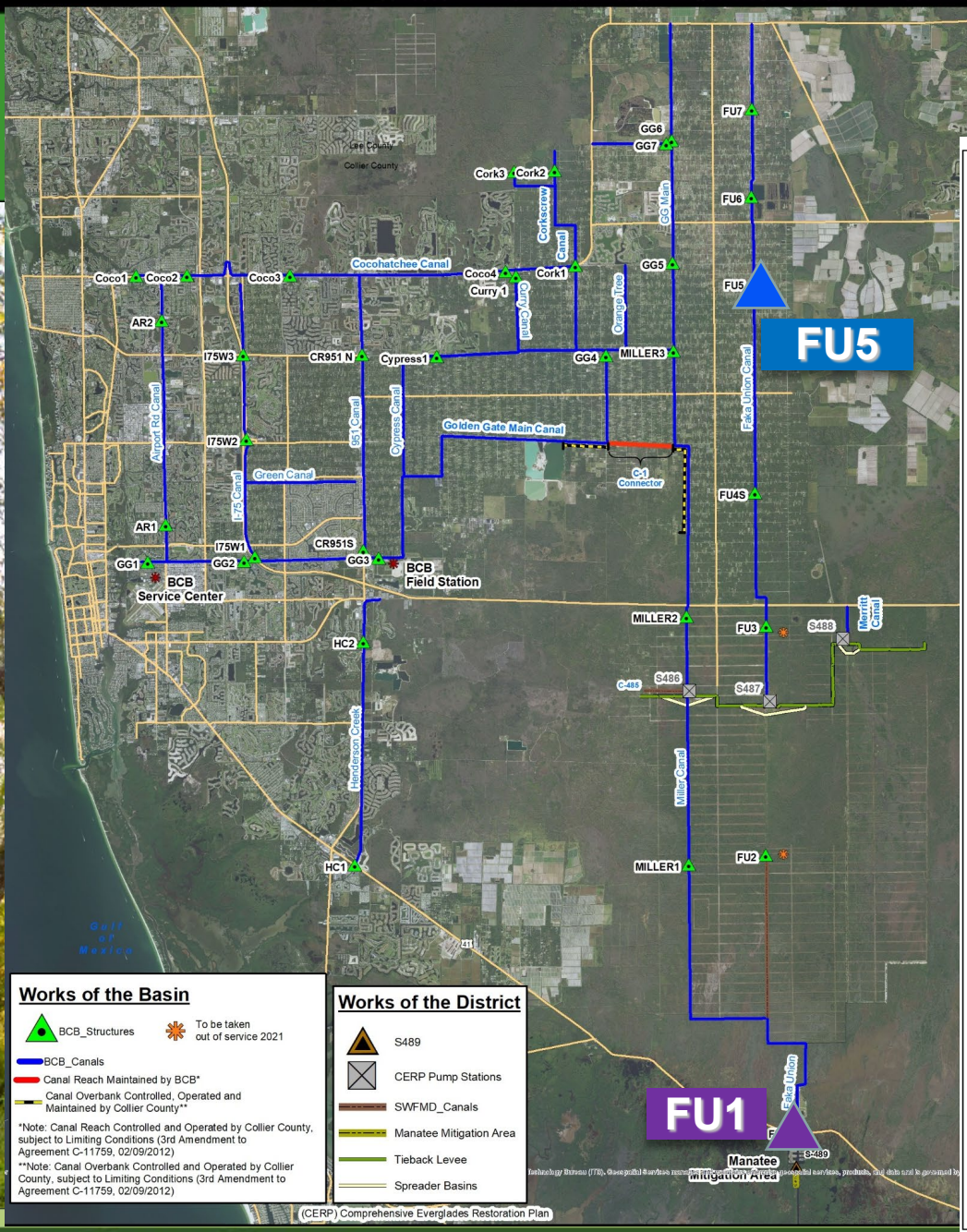
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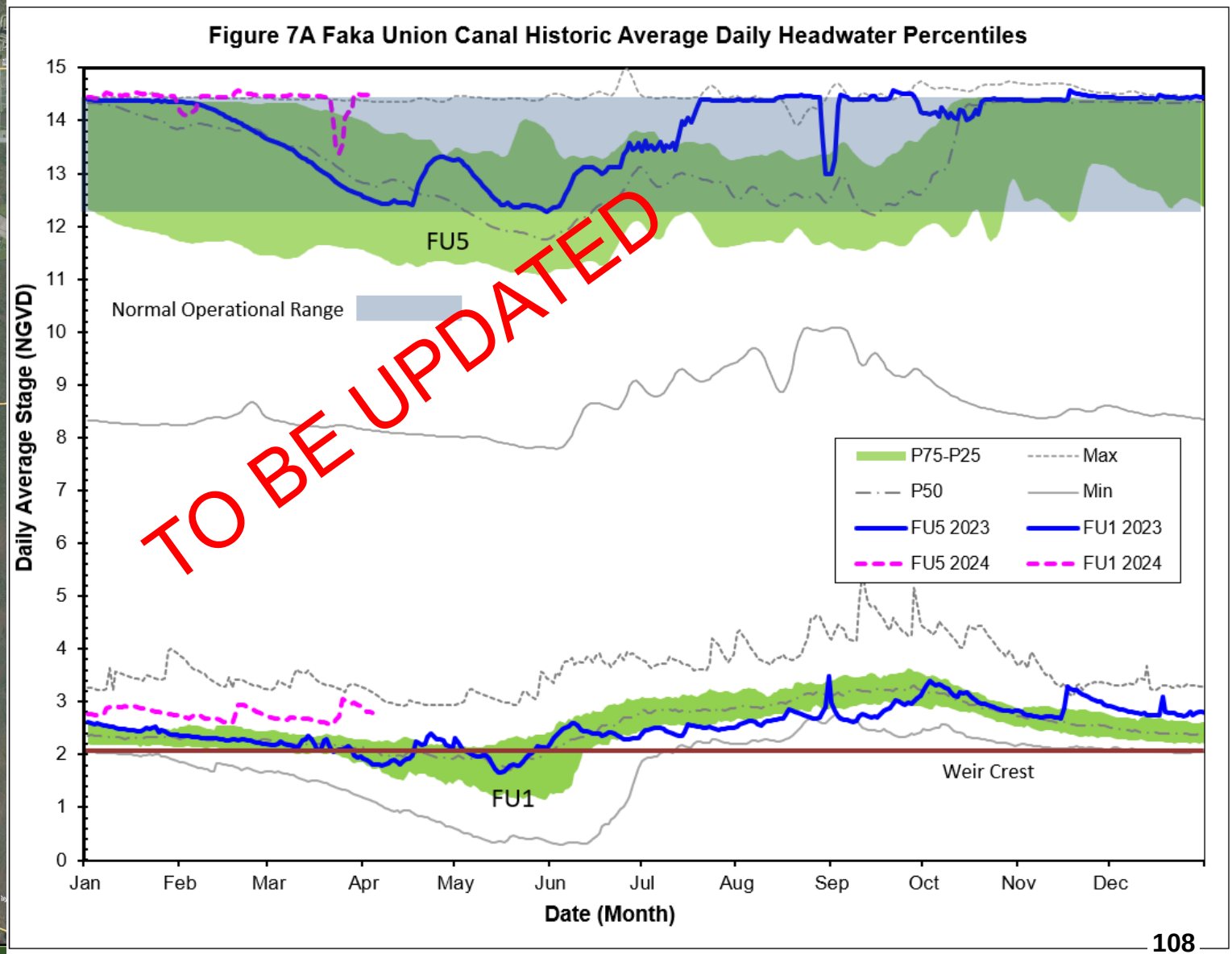




BCB Faka Union Canal

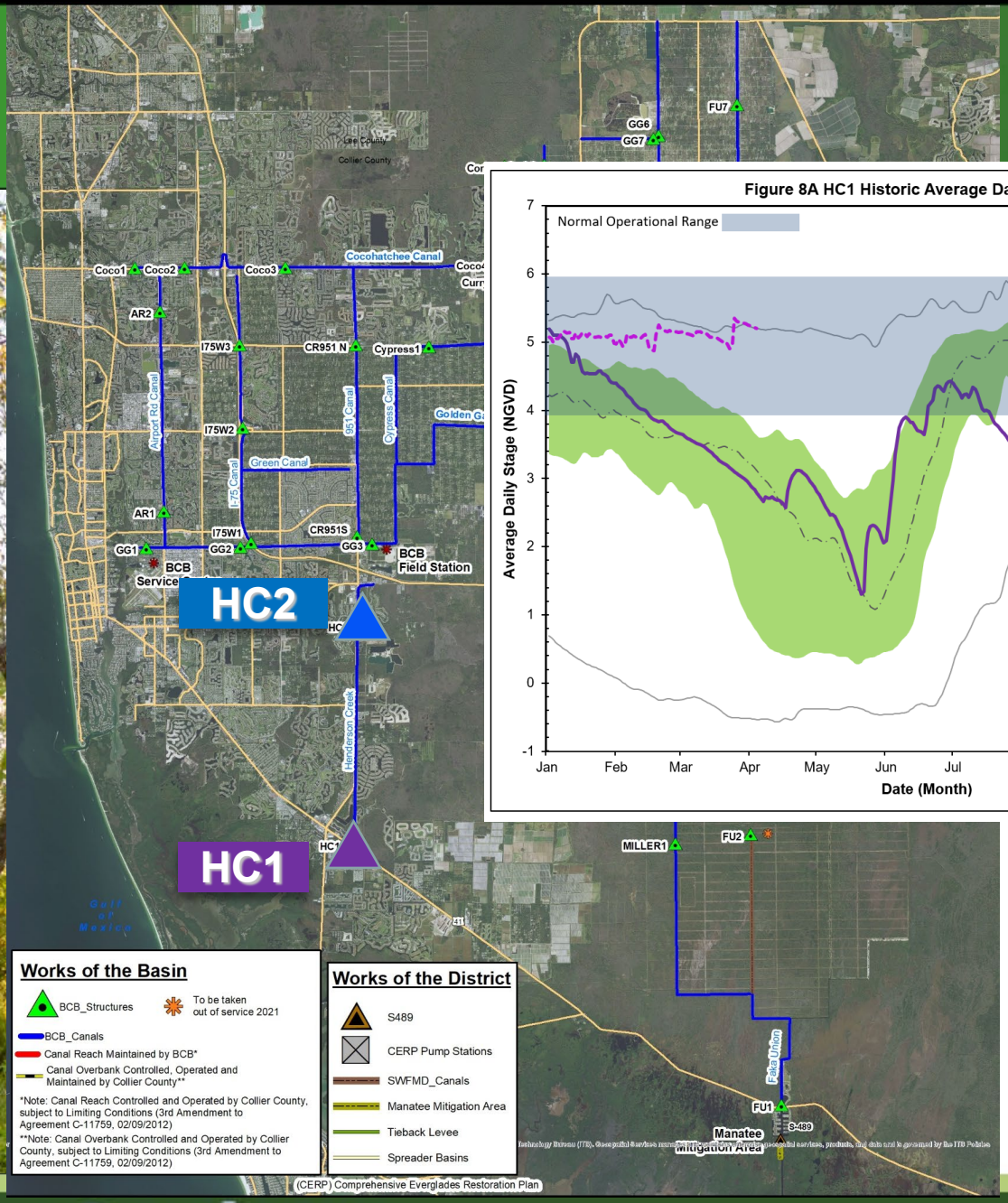
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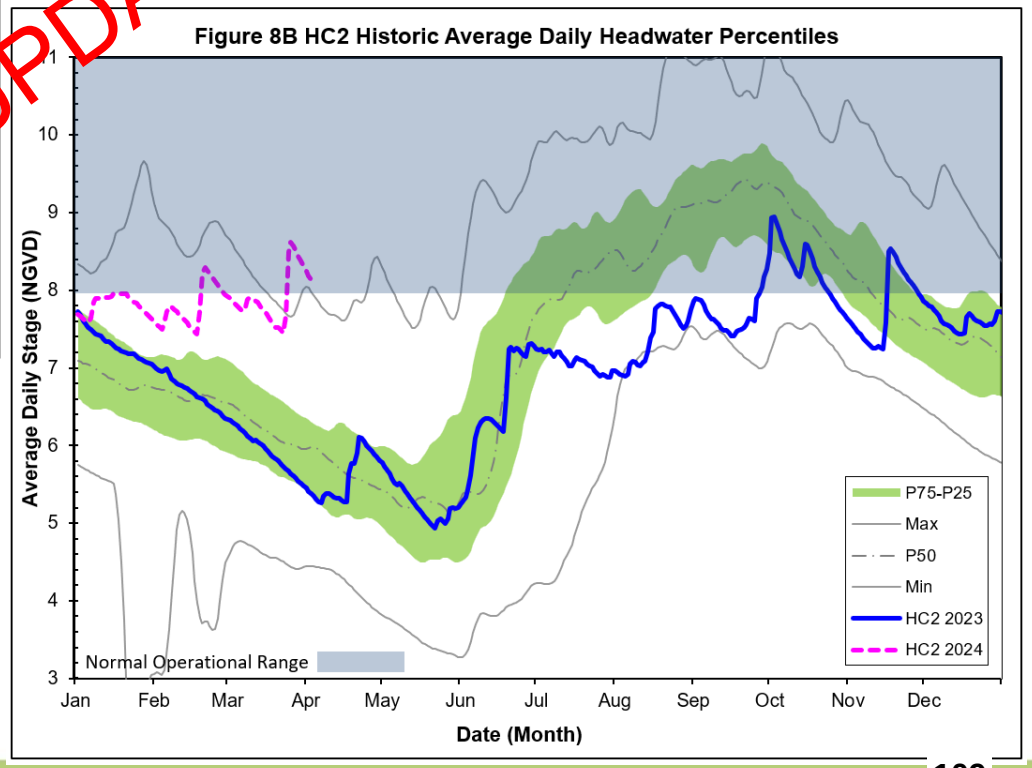


BCB Henderson Creek Canal

DRAFT



TO BE UPDATED



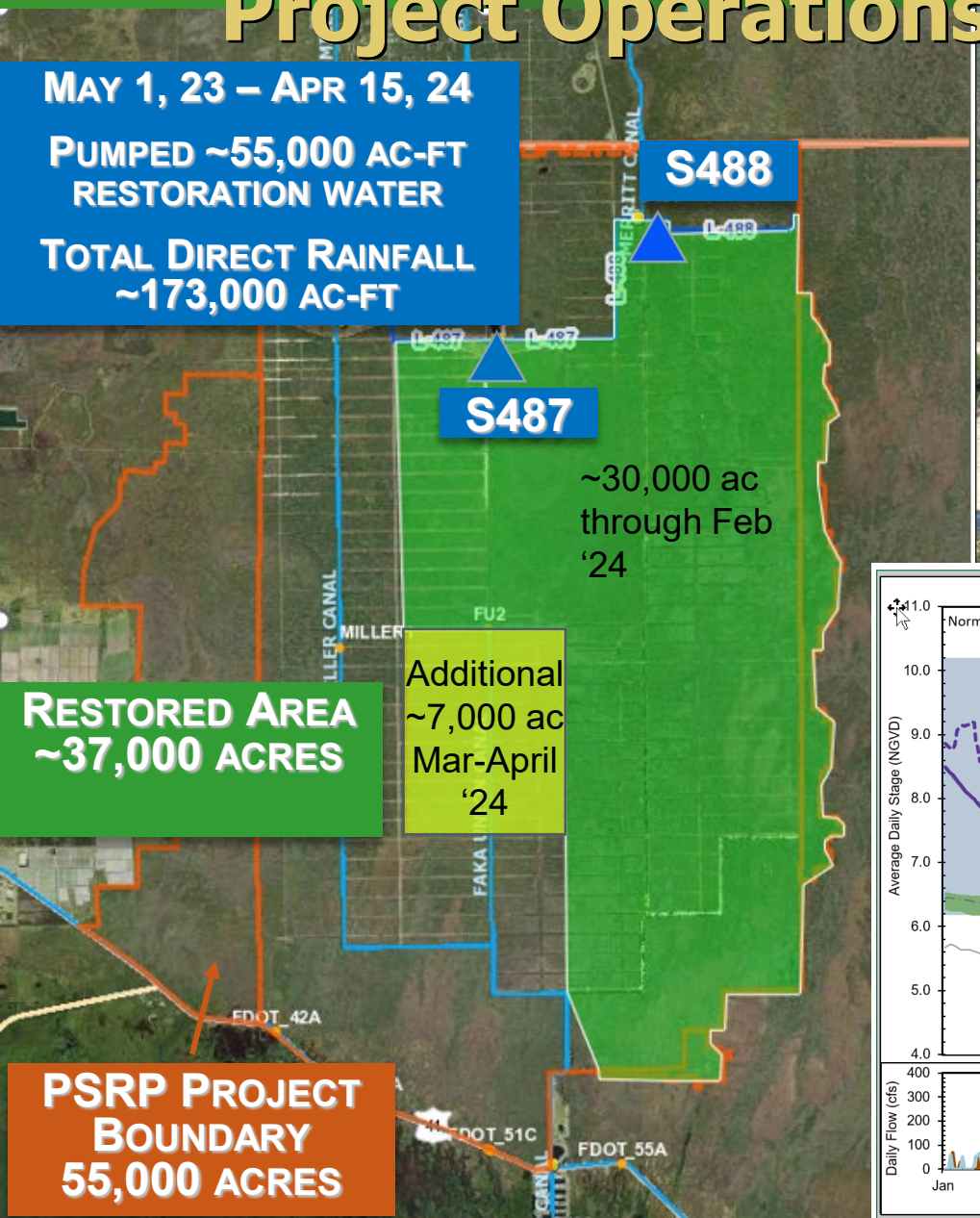
Presenter: Brad Jackson

Picayune Strand Restoration Project Operations

MAY 1, 23 – APR 15, 24

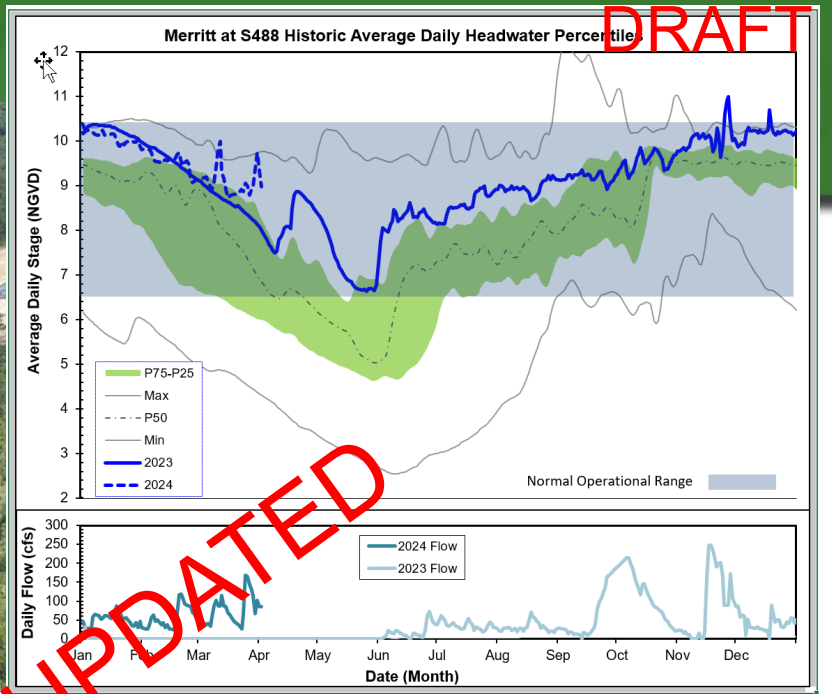
PUMPED ~55,000 AC-FT RESTORATION WATER

TOTAL DIRECT RAINFALL ~173,000 AC-FT

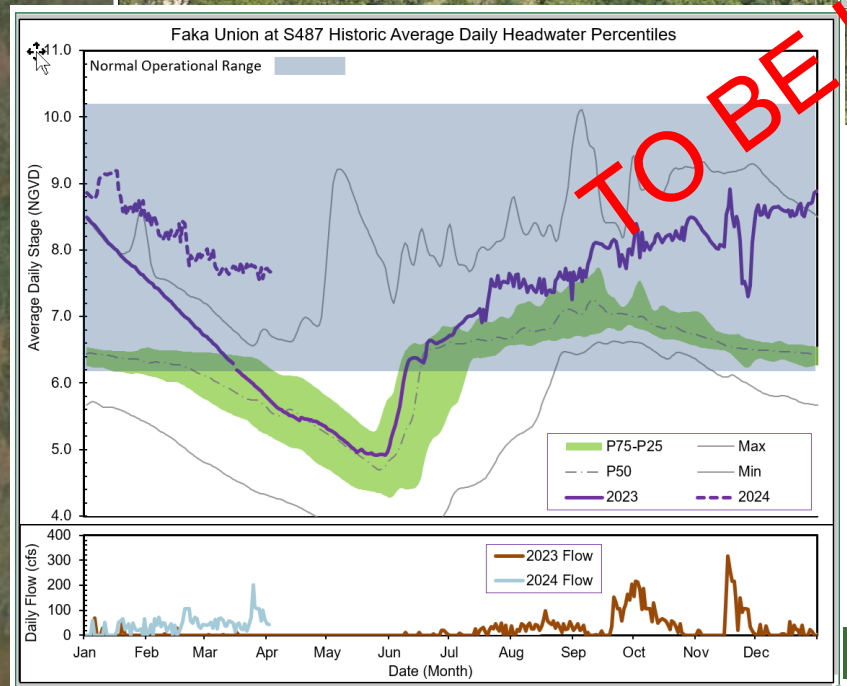




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TO BE UPDATED



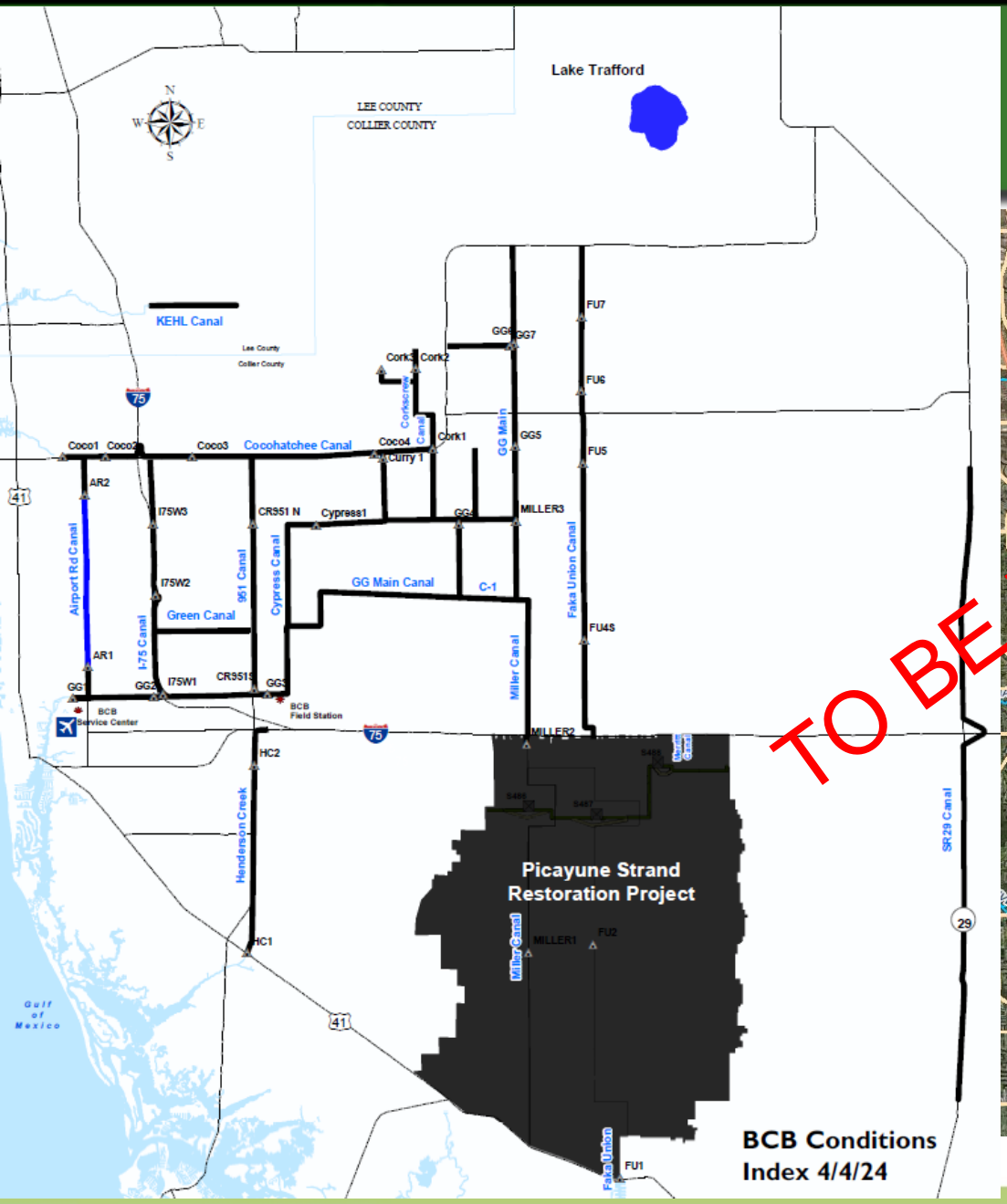


Presenter: Brad Jackson

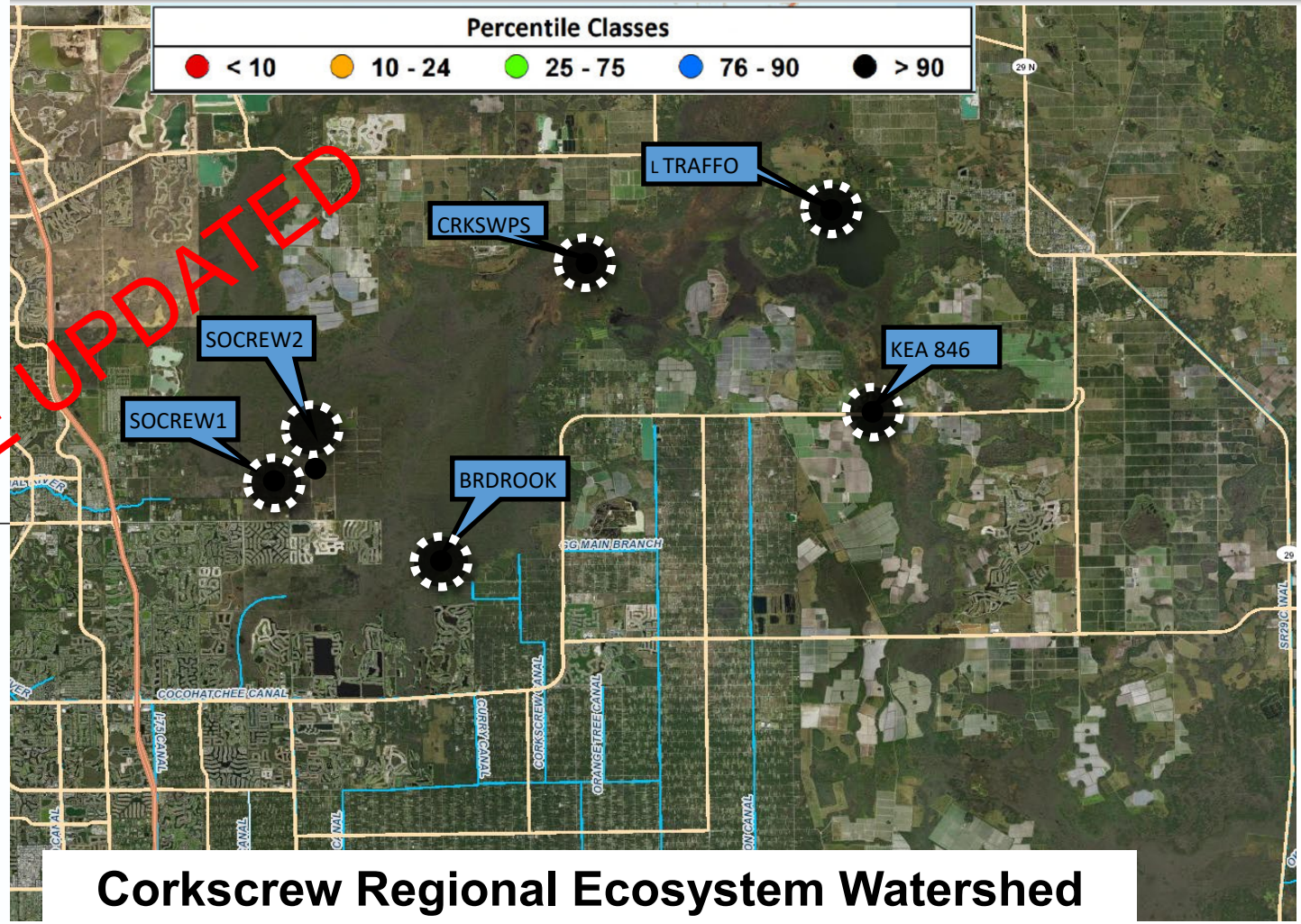
BCB Hydrologic Conditions

DRAFT

as of 04/10/2024



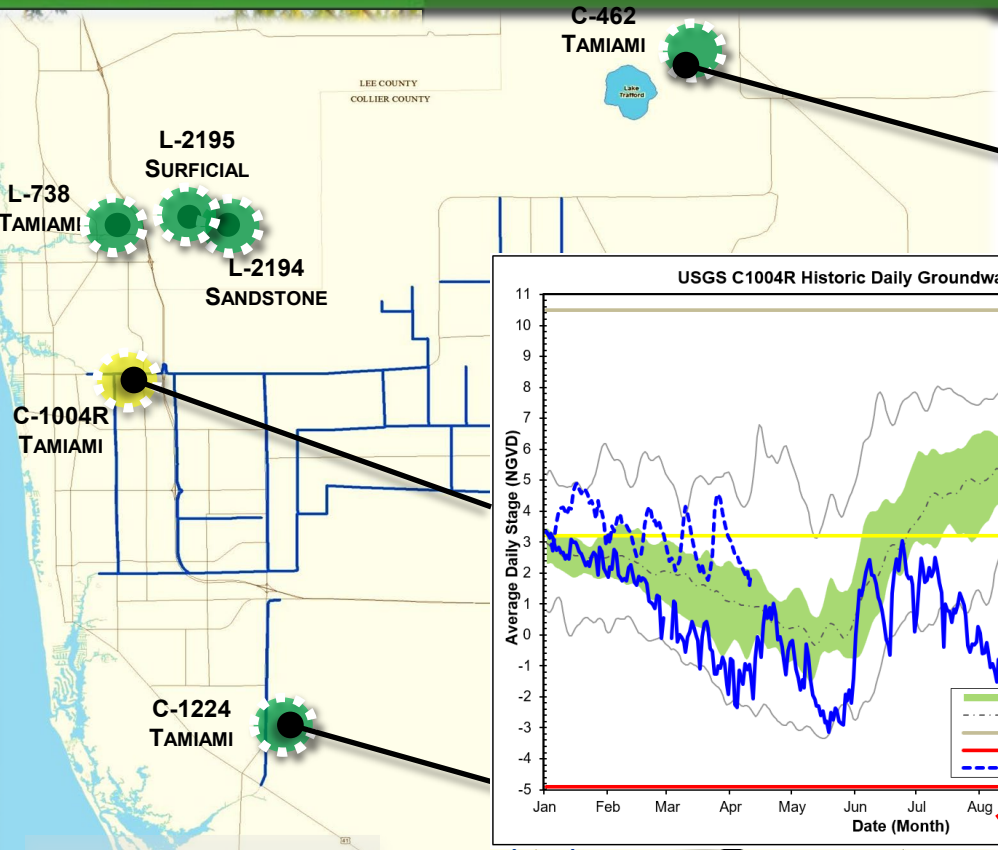
TO BE UPDATED

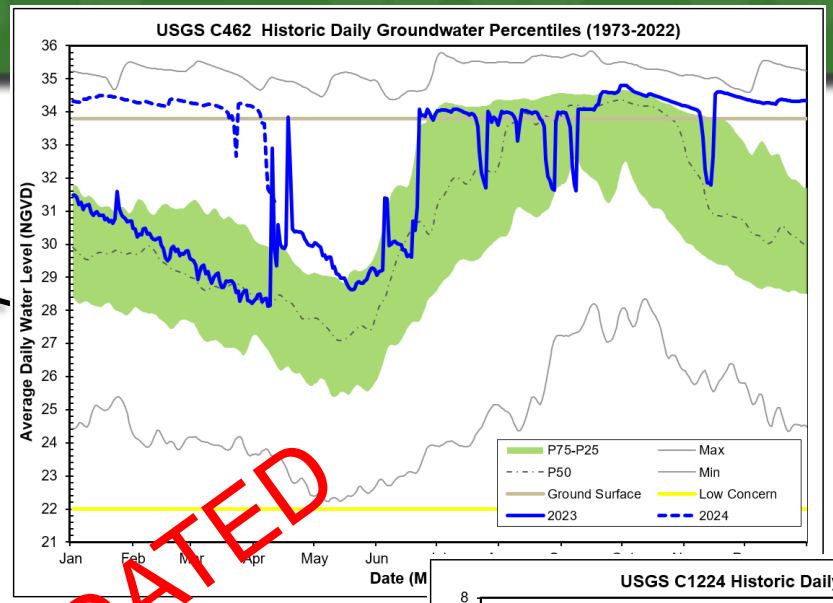


Corkscrew Regional Ecosystem Watershed

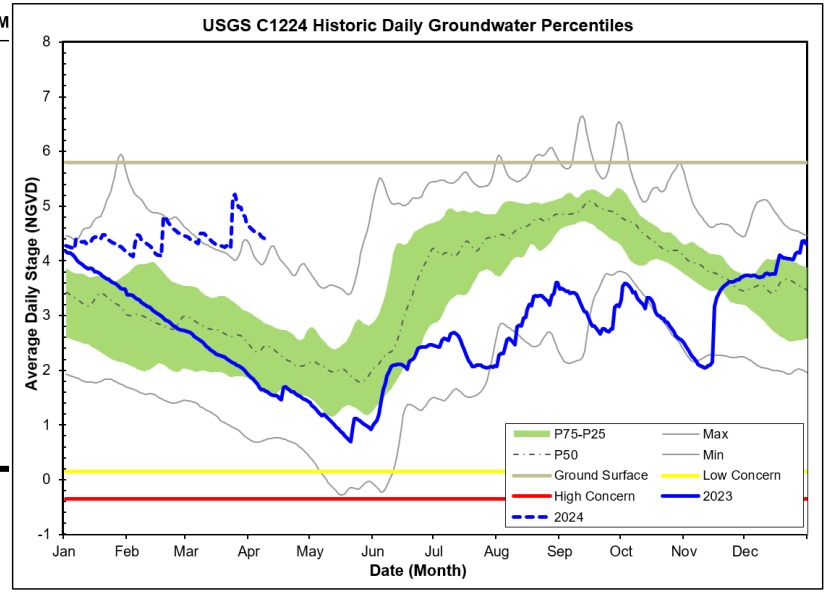
DRAFT

Groundwater Level Trends





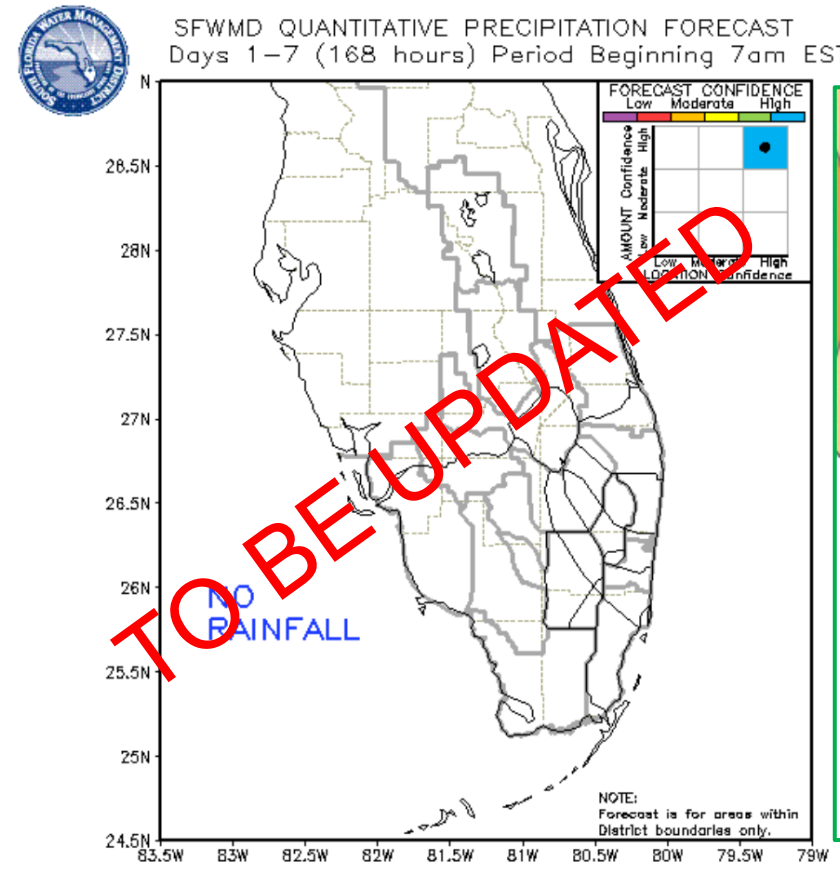
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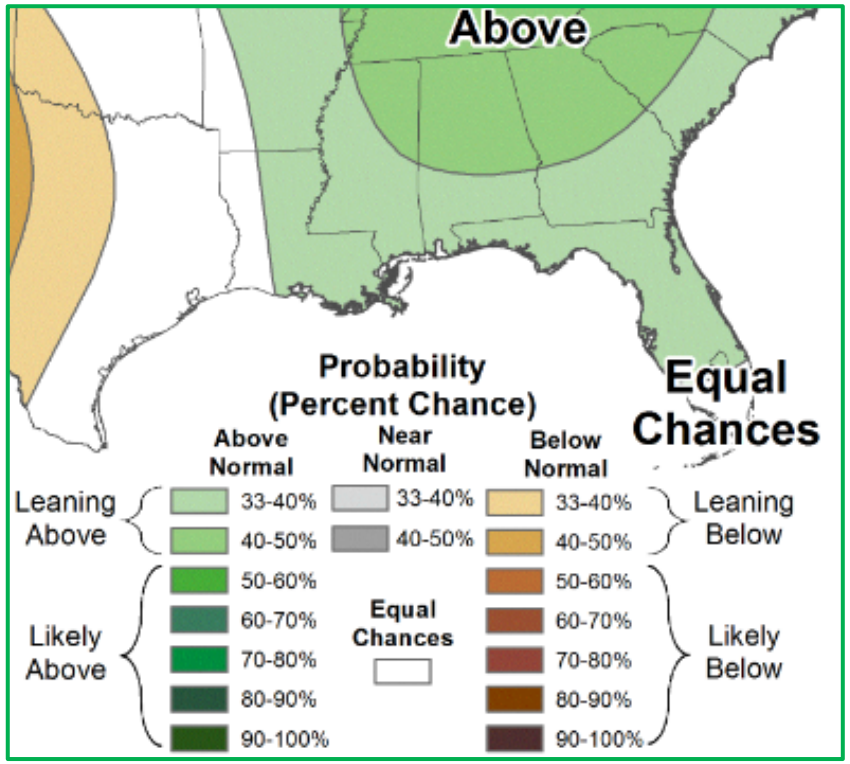


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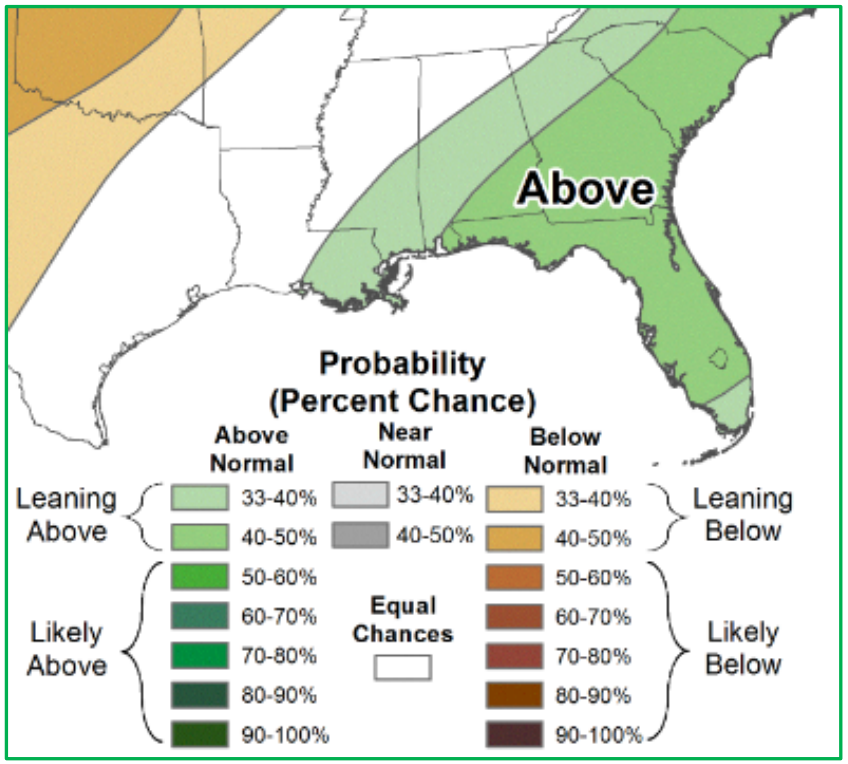
Weather Outlook

7-Day Total Forecast





May-July 2024



Aug-Oct 2024

DRAFT

BCB Water Conditions Report

