



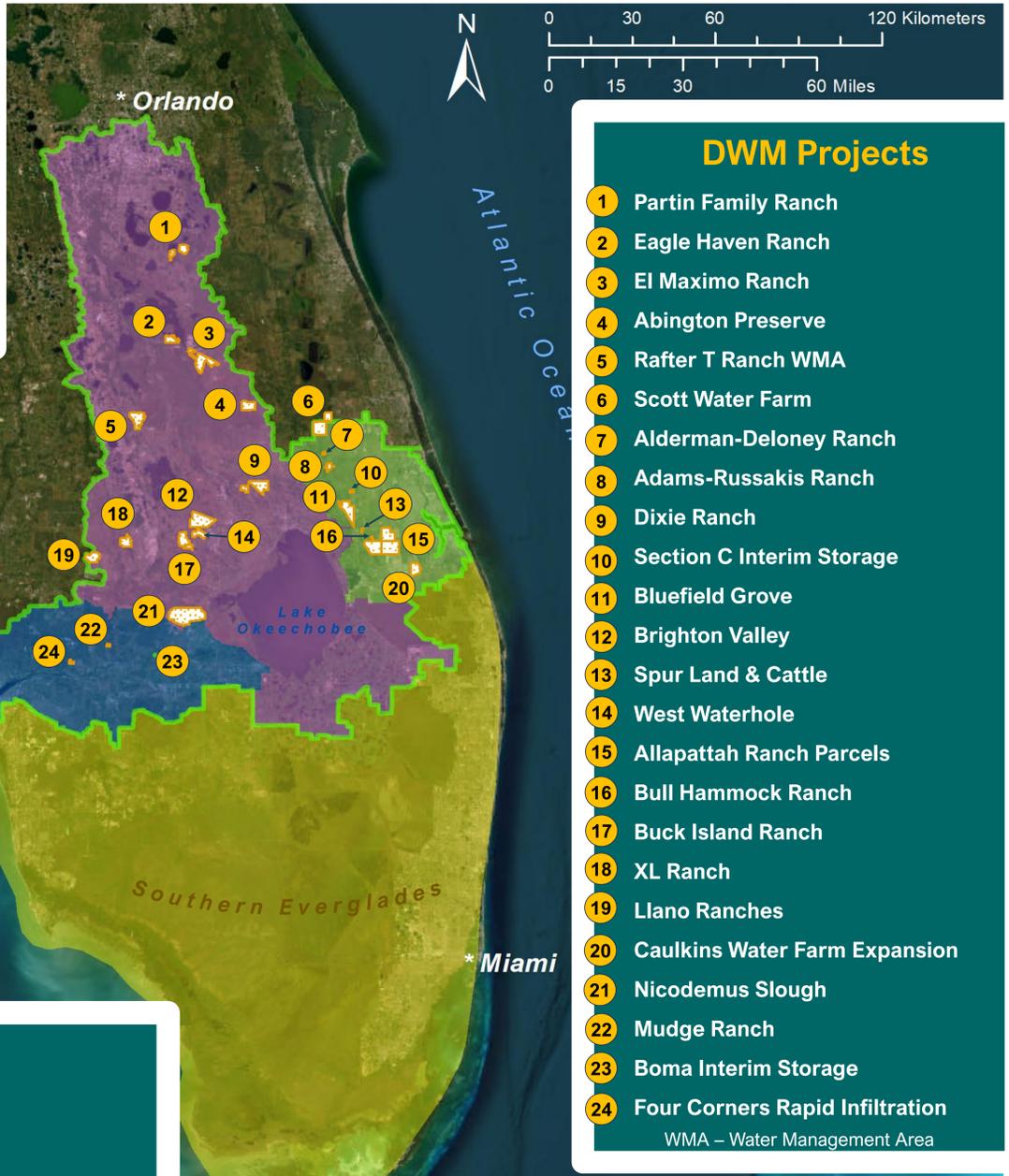
Northern Everglades Dispersed Water Management (DWM)

MANUEL F. ZAMORANO, CHRISTIAN AVILA, ANTHONY BETTS, CRISTINA GAUTHIER

Everglades & Estuaries Protection Bureau

Since Water Year (WY) 2019 over 760,000 acre-feet of water has been stored by the DWM program

- ❖ Dispersed water is defined as shallow water distributed across parcel landscapes using relatively simple structures.
- ❖ Utilized across SFWMD area on publicly-owned lands or through public-private partnerships.
- ❖ Private landowner involvement typically includes cost-share cooperative projects, easements, or payment for environmental services.

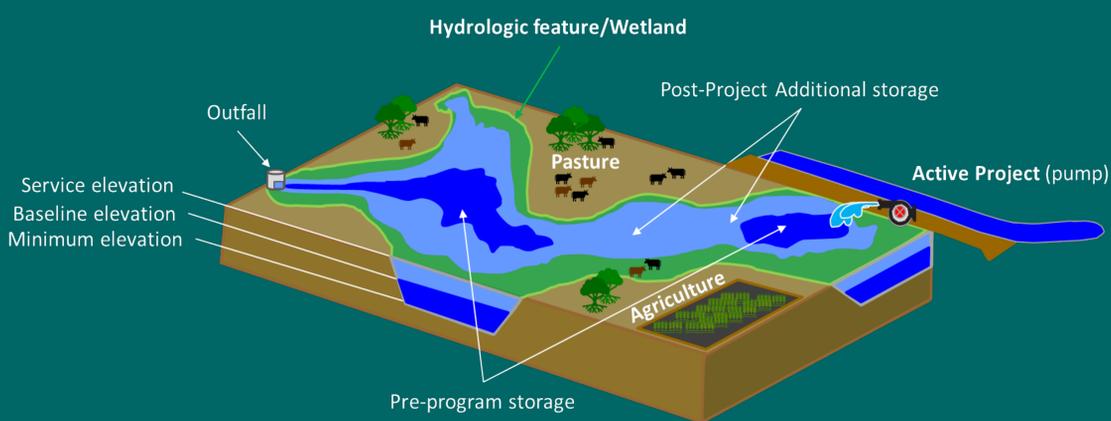


Northern Everglades Watershed Projects

- DWM Projects
- Caloosahatchee River Watershed
- St Lucie River Watershed
- Lake Okeechobee Watershed

24 operational projects
Approximately 86,000 acres
Nearly 229,000 acre-feet of storage/year
Over 100 monitoring stations

DWM Conceptual Model



DWM Project Types

Active projects

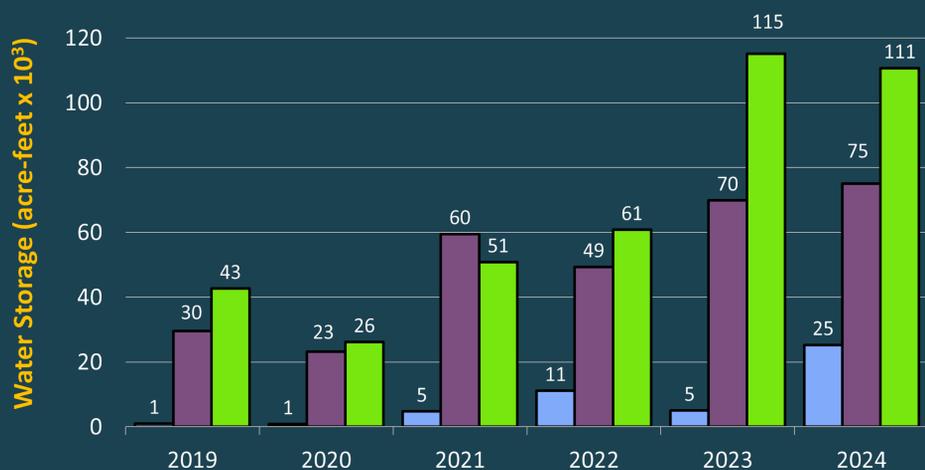
Capture direct rainfall and have the capability to pump excess surface water from the regional system.

Passive projects

Store direct rainfall via modifications to the existing drainage infrastructure such as installation of ditch blocks, new culverts with risers, etc.

DWM 6-Year Project Performance

■ Caloosahatchee River Watershed ■ Lake Okeechobee Watershed ■ St Lucie River Watershed



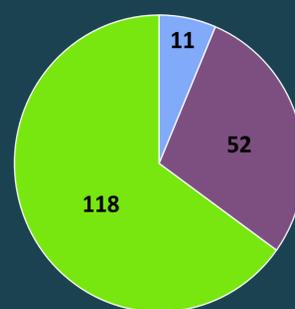
Water Year

SFWMD water year runs from May 1 through April 30 of the next calendar year.

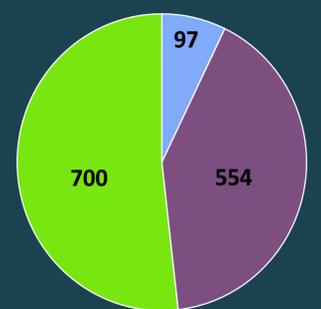
Nutrient Retention

Total nutrient retention = sum of nutrient loads for previous six water years in metric tons

Total Phosphorus Retention
181 metric tons



Total Nitrogen Retention
1,351 metric tons





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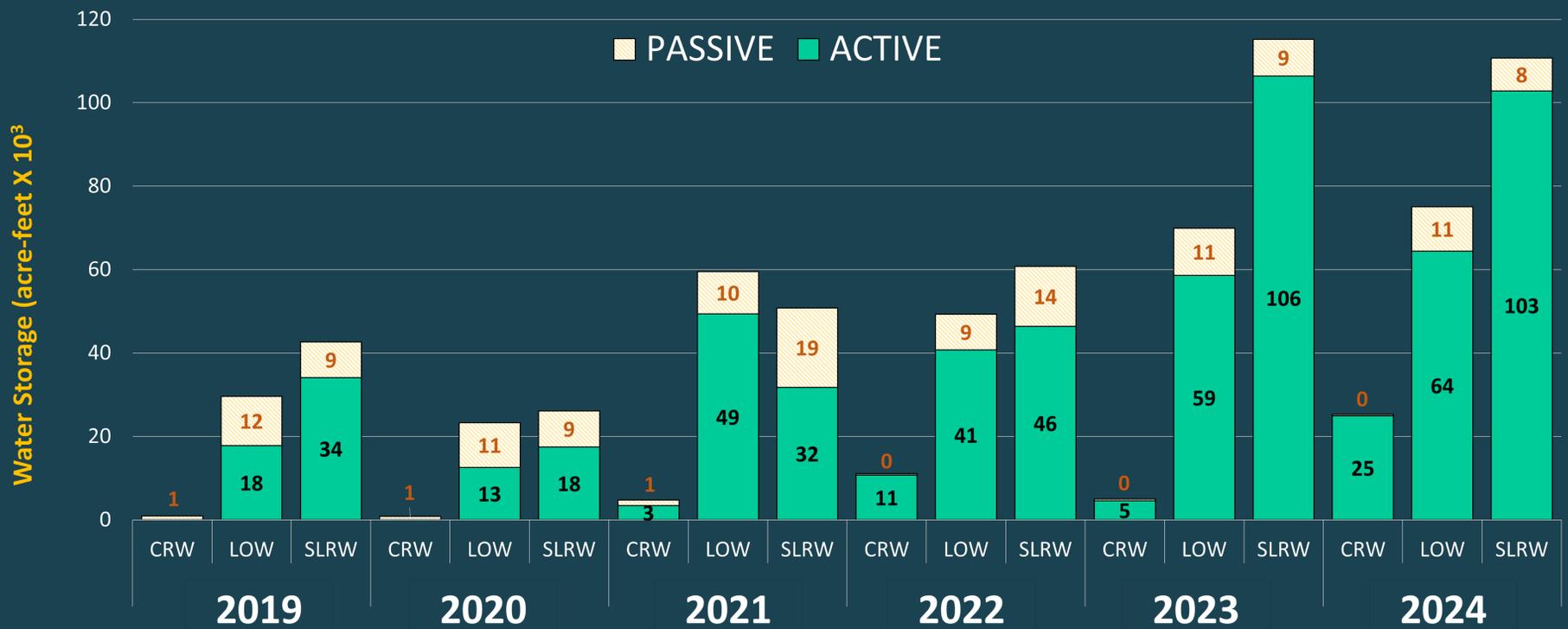
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Supplemental Material

DWM 6-Year Project Performance

Caloosahatchee River Watershed (CRW)
Lake Okeechobee Watershed (LOW)
St Lucie River Watershed (SLRW)

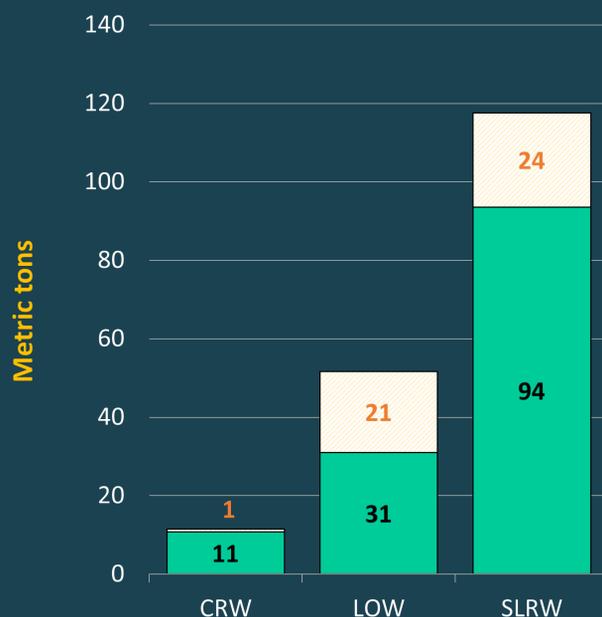
Water Storage



SFWM water year runs from May 1 through April 30 of the next calendar year.

Nutrient Retention for all 6 Water Years

Total Phosphorus



Total Nitrogen



For more information:



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