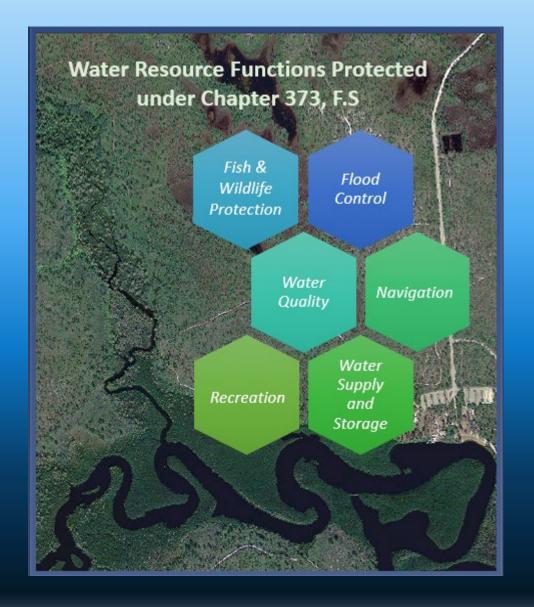


## The Applied Sciences Bureau working with the Office of Counsel:

- develops water resource protection criteria for water bodies whose ecosystems are at risk of ecological degradation
- 2) identifies hydrologic thresholds where further withdrawals would result in *significant harm* to the water resources or ecology of the water body.





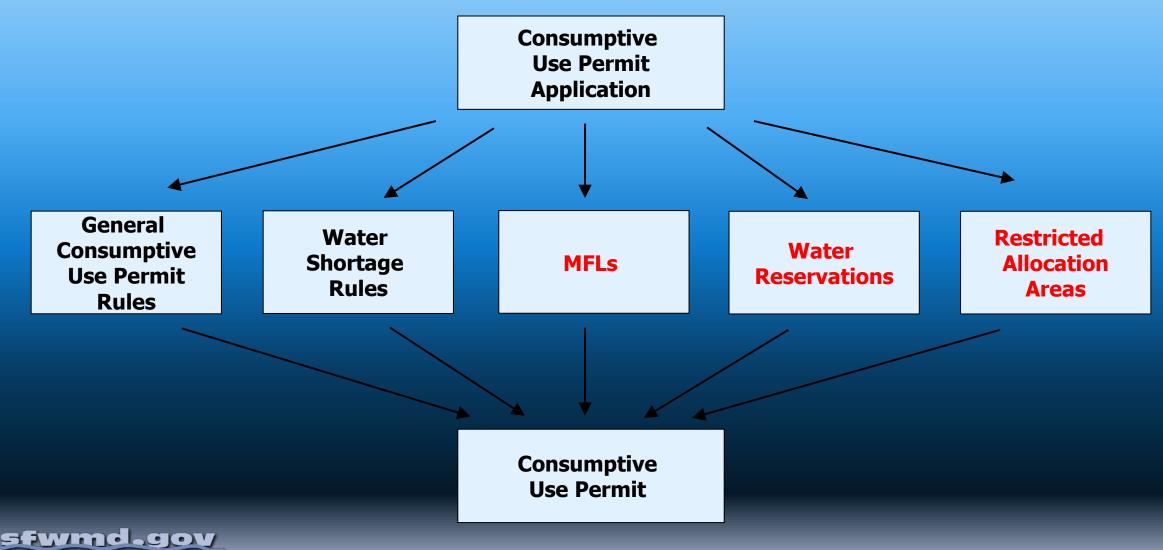
#### **Water Resource Protection Tools**

- Minimum flows and minimum water levels (MFLs)
- Water reservations
- Restricted allocation areas (RAAs)
- All three tools are adopted by rule in the Florida Administrative Code (F.A.C.)
- More than one tool can protect a waterbody





## **Factors Considered in Consumptive Use Permitting**



### **Water Resource Protection Tools** and Everglades Restoration

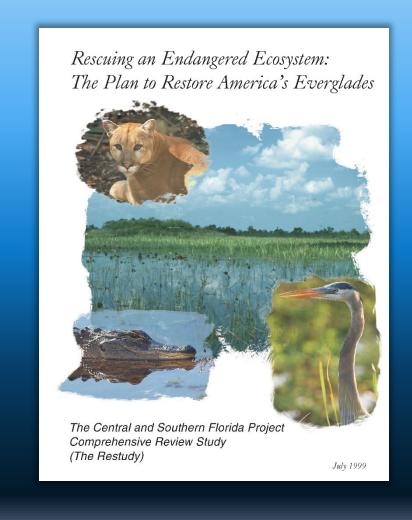
- CERP: Comprehensive Everglades Restoration Plan is a federal/state 50:50 cost-share partnership
- Protection of water for the natural system required prior to project construction agreements
- Chapter 373 requires natural system water and any new water supplies from CERP projects be protected or allocated using State authorities



Restricted Allocation Rules

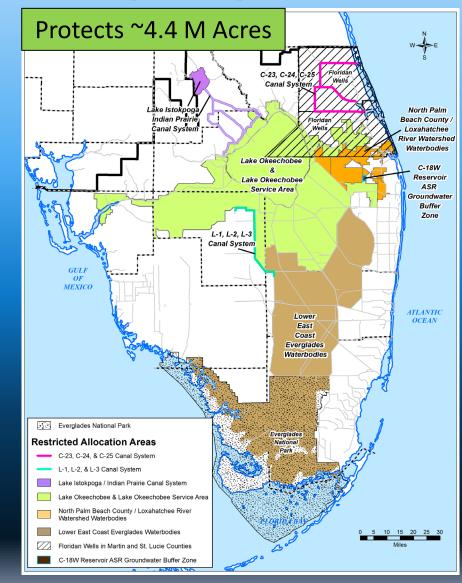


★ - Water Reservation Rules



## **Restricted Allocation Areas (RAA)**

- Implemented where there is a lack of water available to meet projected needs of the region
- Restricts new or increased consumptive use allocations
- Large geographic areas covering multiple ecosystems (Everglades, Lake Okeechobee, Loxahatchee)
- Public interest considerations by Governing Board determination
- Protects future water made available for natural system by CERP projects



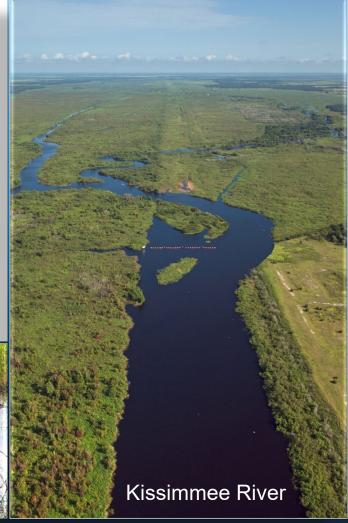


#### **Water Reservations**

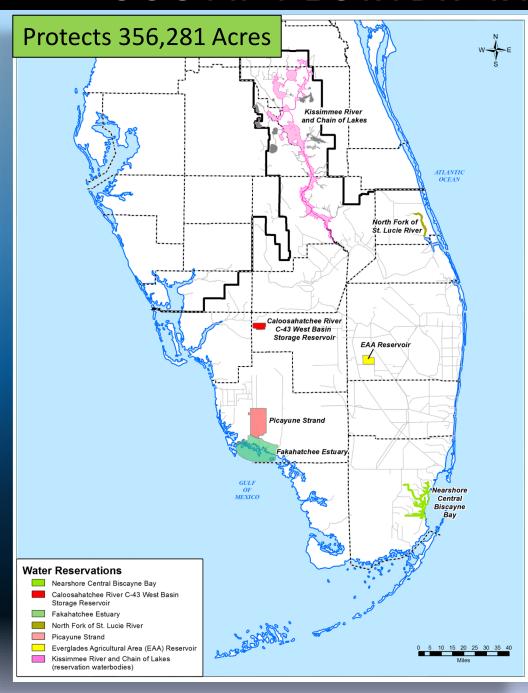
Sets aside water for the protection of fish and wildlife (or public health and safety)

- Based on scientifically defensible determination of water needed for protection of fish and wildlife
- Reserves water from allocation to consumptive uses
- Required for Comprehensive Everglades Restoration Plan (CERP) projects.





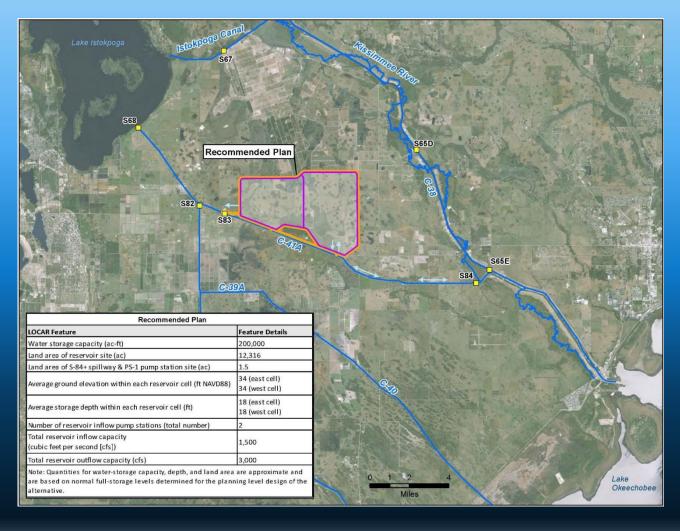




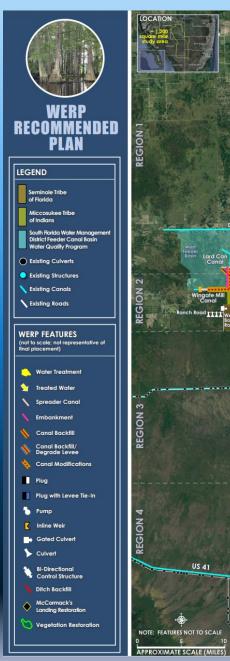
# Water Reservations in the SFWMD

- Picayune Strand 2009
- Fakahatchee Estuary 2009
- North Fork of the St. Lucie River 2010
- Nearshore Central Biscayne Bay 2013
- Caloosahatchee River (C-43) West Basin
  Storage Reservoir 2014
- EAA Reservoir 2021
- Kissimmee River & Chain of Lakes 2021

#### **CERP Water to be Protected - LOCAR**



- Improve quantity, timing, and distribution of flows into Lake Okeechobee to maintain ecologically desired lake stage ranges more often.
- Improve the timing and volumes of freshwater flows from Lake Okeechobee to improve the salinity regime and the quality of habitats for oyster, submerged aquatic vegetation (SAV), and other estuarine communities in the Northern Estuaries.

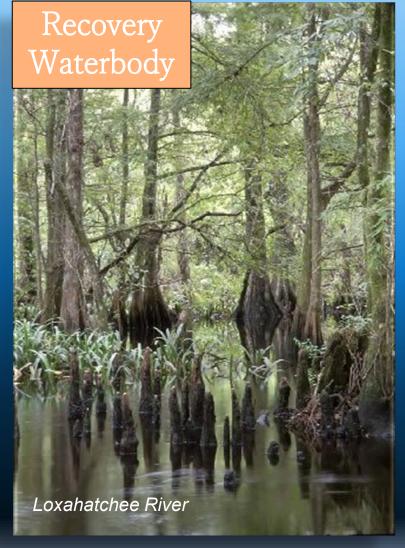




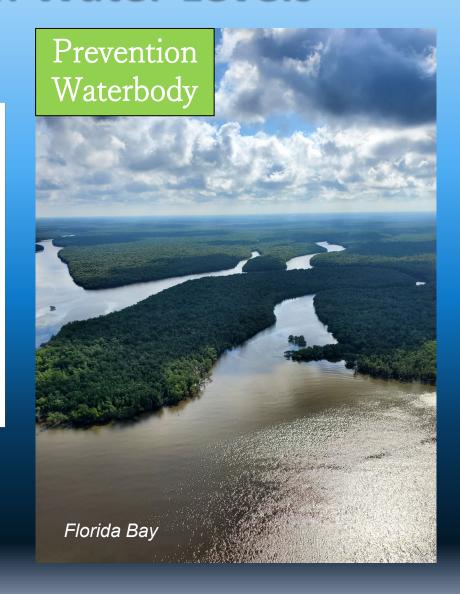
#### **CERP Water to be Protected - WERP**

- Restoring freshwater flow paths, flow volumes & timing, seasonal hydroperiods, & historic distributions of sheetflow, to re-establish ecological connectivity and ecological resilience of the historic wetland/upland mosaic.
- Restoring water levels to reduce wildfires associated with altered hydrology, which damage the underlying geomorphology and associated ecological conditions of the western Everglades.

#### **Minimum Flows and Minimum Water Levels**

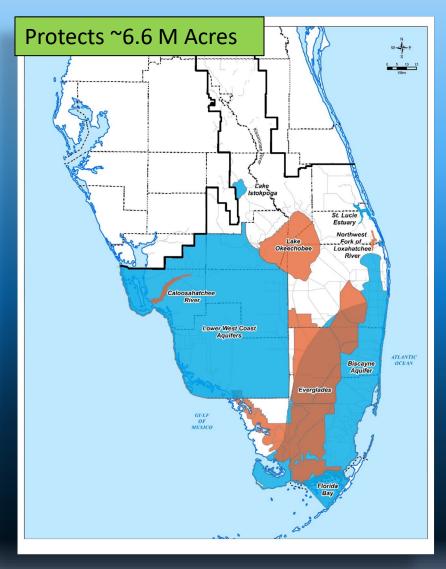


- Annual MFL Priority Waterbody List
- Identify the point at which further withdrawals cause significant harm to the water resources
- Recovery or Prevention Waterbodies





#### **Minimum Flows and Minimum Water Levels**



#### **MFL Prevention Waterbodies**

- Biscayne aquifer (2001)
- Lower West Coast aquifers (2001)
- St Lucie Estuary (2002)
- Lake Istokpoga (2006)
- Florida Bay (2006)

#### **MFL Recovery Waterbodies**

- Lake Okeechobee (2001)
- Everglades (2001)
- Caloosahatchee River (2001)
- Loxahatchee River (2003)

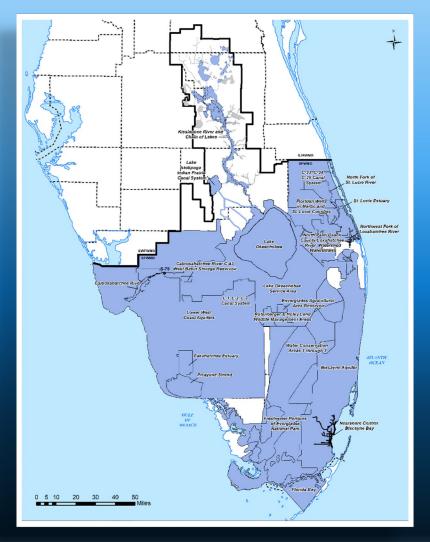
## **Composite of All Protection Tools**

Minimum Flows and Levels 6,615,517 Acres

Water Reservations 356,281 Acres

Restricted Allocation Areas 4,391,433 Acres

Total Protected Area 10,435,063 Acres



## **Setting Priority**

South Florida Water Management District 2024 Priority Water Body List and Schedule

#### Minimum Flows and Minimum Levels:

#### 2024 - 2026 - Northwest Fork of the Loxahatchee River

 Reevaluate Minimum Flows and Levels Criteria for the Northwest Fork of the Loxahatchee River to include changing hydrological considerations including the Comprehensive Everglades Restoration Plan (CERP) and sea level rise over a 20-year planning horizon.

#### 2024 - 2026 - Florida Bay

 Reevaluate Minimum Flows and Levels Criteria for Florida Bay to include changing hydrological considerations including CERP and sea level rise over a 20-year planning horizon.

#### 2025 - 2027 - Biscayne Aquifer

 Reevaluate Minimum Flows and Levels Criteria for the Biscayne Aquifer to include changing hydrological considerations including CERP and sea level rise over a 20-year planning horizon.



