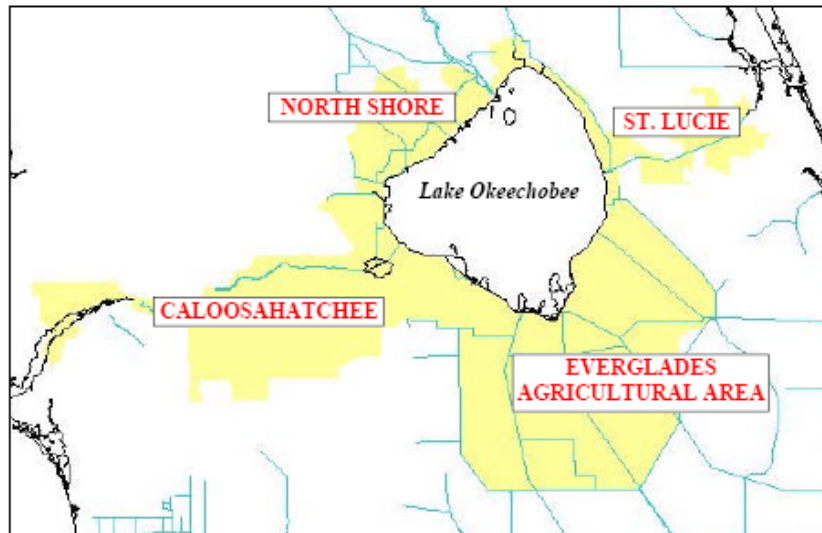


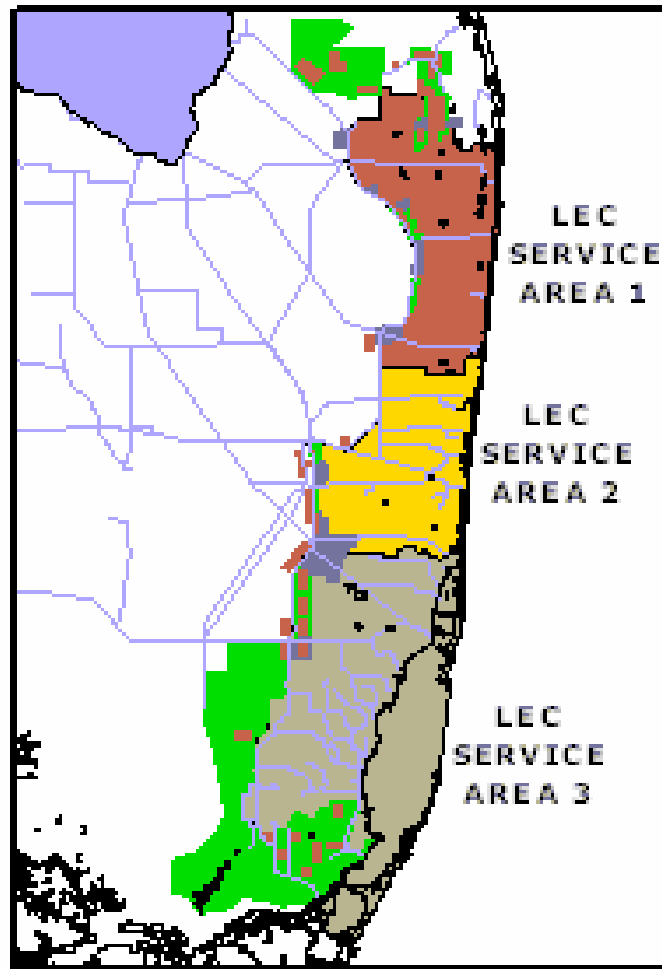
### 13.0 Water Supply and Flood Protection Performance Measures

As CERP projects are built, they will store water in reservoirs and underground wells that now discharge to tide. Ultimately, this will increase availability of fresh water resulting in fewer water restrictions for South Florida residents and less competition for water between people and the natural system. The State of Florida's planning goal for people's needs is to meet existing and future municipal, industrial and agricultural water supply requirements in the region during a 1-in-10 year drought event: CERP will help to meet these needs. Not only will water supplies be enhanced, but flood protection will be maintained, and in some situations, will be improved.

South Florida water managers have designated two service areas for water supply purposes. Lake Okeechobee Service Area (LOSA) (**Figure 13-1**) provides water supply to the Everglades Agricultural Area, north shore of Lake Okeechobee, Caloosahatchee and St. Lucie basins, and Seminole Tribe of Florida's Brighton and Big Cypress Reservations. Lower east coast counties, Palm Beach, Broward, Miami-Dade, and Monroe, are collectively referred to as Lower East Coast (LEC) Service Areas (**Figure 13-2**). Performance measures have been developed for water restrictions in these areas based upon Section 373.0361(2)(a)(1) of the Florida Statutes. Each area has a performance measure for frequency of water restrictions and duration and severity of water restrictions.



**Figure 13-1. Lake Okeechobee Service Area**



**Figure 13-2. Lower East Coast Service Areas**

Performance measures have also been developed for saltwater intrusion into the Biscayne aquifer and flood protection. Saltwater intrusion performance measures are based upon Chapter 40E-8 of the Florida Administrative Code and Section 373.044 of the Florida Statutes. Flood protection performance measures were developed based on the Draft Interim Operational Plan (Dial and Cordy and Associates 2001).

### **13.5 Summary of Water Supply and Flood Protection Performance Measures**

RECOVER has developed eight performance measures to evaluate CERP effects on water supply and flood protection during plan formulation and revision:

- Frequency of Water Restrictions for Lake Okeechobee Service Area
- Frequency of Water Restrictions for Lower East Coast Service Area

- Potential for High Water Levels in South Miami-Dade Agricultural Area
- Prevent Saltwater Intrusion of Biscayne Aquifer - Meet Minimum Flows and Levels Criteria for Biscayne Aquifer
- Prevent Saltwater Intrusion of Biscayne Aquifer in South Miami-Dade County
- Comparison of Stage Differences of Water Levels in South Miami-Dade Agricultural Area

Documentation sheets can be accessed from the Water Supply and Flood Protection Performance Measures web page:

[http://www.evergladesplan.org/pm/recover/perf\\_water\\_supply.aspx](http://www.evergladesplan.org/pm/recover/perf_water_supply.aspx).

### **13.6 References**

Dial Cordy and Associates. 2001. Draft Environmental Impact Statement Interim Operational Plan (IOP) for the Protection of the Cape Sable Seaside Sparrow. Prepared for the United States Army Corps of Engineers, Jacksonville District, Jacksonville, Florida. February 2001.