

South Florida Water Management District

Current and 2025 Projected Reuse Summary



District-wide Wastewater Disposal & Reuse				
2006 Actual	Reuse	Ocean Outfall	Deep Well Injection	Total
Average Daily Flow (MGD)	229	299	306	824
% of Total Disposal	28	36	36	100
2025 Projected*	Reuse	Ocean Outfall	Deep Well Injection	Total
Average Daily Flow (MGD)	672	115	422	1,209
% of Total Disposal	56	10	35	100

*Based on regional water supply plan updates, recent consumptive use permits & 2008 ocean outfall legislation.

Key Successes in Reuse

Kissimmee Basin (*Portions of Orange, Osceola, Polk, Highlands, Glades & Okeechobee counties*)

- 100% reuse currently - expected to continue.

Lower West Coast (*Lee, Collier & portions of Hendry, Glades & Charlotte counties*)

- 85% - 100% reuse currently - expected to continue.
- Multiple reclaimed water ASR storage projects planned to increase storage.

Upper East Coast (*Martin, St. Lucie & portion of Okeechobee counties*)

- Reuse expected to increase from 48% to 87% by 2025.
- Stuart and Martin County developing agreement to exchange reclaimed water for potable water.

Lower East Coast (*Palm Beach (PBC), Broward, Miami-Dade and portion of Hendry counties*)

- Reuse in PBC expected to continue to increase from 29% to 69% through 2025. South Central Regional (Delray Beach/Boynton Beach) going to 100% reuse & converting ocean outfall to reclaimed water transmission to beach communities.
- Miami-Dade Consumptive Use Permit - 170 MGD of reuse by 2026.
- PBC created 225 acres of wetlands using reclaimed water.
- West Palm Beach restoring 1,400 acres of wetlands and increased water availability with state-of-the-art treated reclaimed water.
- Pompano Beach's reuse facility utilizes Broward County's ocean outfall pipe as source water.

Key Opportunities & Challenges to 100% Reuse

Kissimmee Basin

- Conservation of reclaimed water. Reuse only method of disposal in region.

Lower West Coast

- Demand exceeds supply. Storage & supplemental water can extend supply.

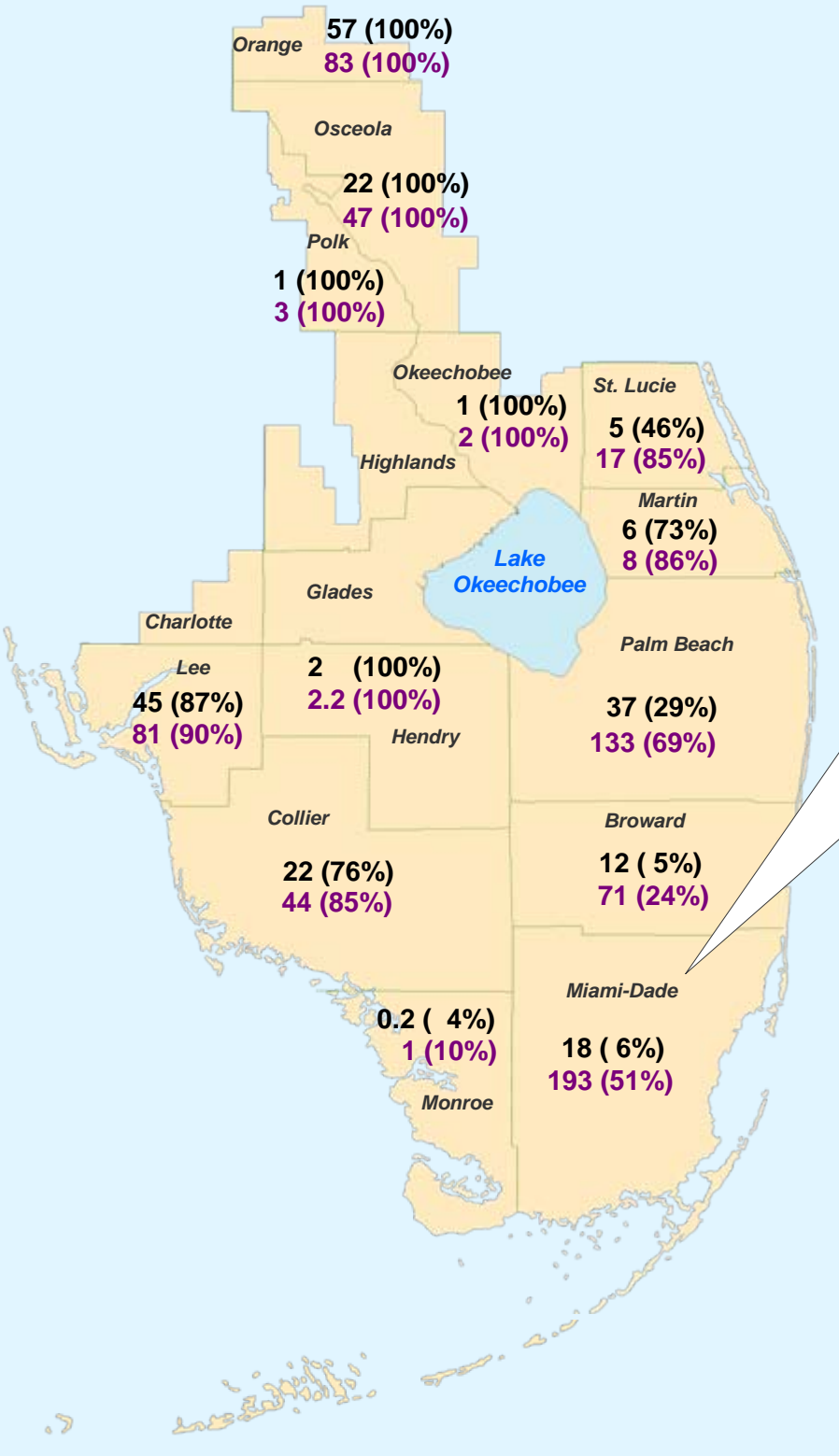
Upper East Coast

- Ft. Pierce considering mainland relocation of wastewater plant that will increase reuse potential.

Lower East Coast

- Reuse in this region controls District and State-wide reuse statistics due to large volumes.
- Reuse in Broward County projected at 13% in 2025.
- Perception that Broward County local water quality requirements and concerns limits reuse.
- Many reuse recharge options require state-of-the-art treatment to reduce nutrients.
- Funding assistance for reuse projects.
- Potential of sharing reclaimed water between utilities.
- Desire of utilities to receive water use permit offset credits for implementing reuse.
- Permitting of ground water replenishment projects perceived as difficult.

2006 vs 2025 Reuse in the South Florida Water Management District *



Legend:

Miami-Dade

18 = Current rate of reuse, (MGD) **

6% = Current percentage of wastewater reused out of total available

193 = Projected rate of reuse 2025, (MGD)**

51% = Projected percentage of wastewater reused out of total available, 2025

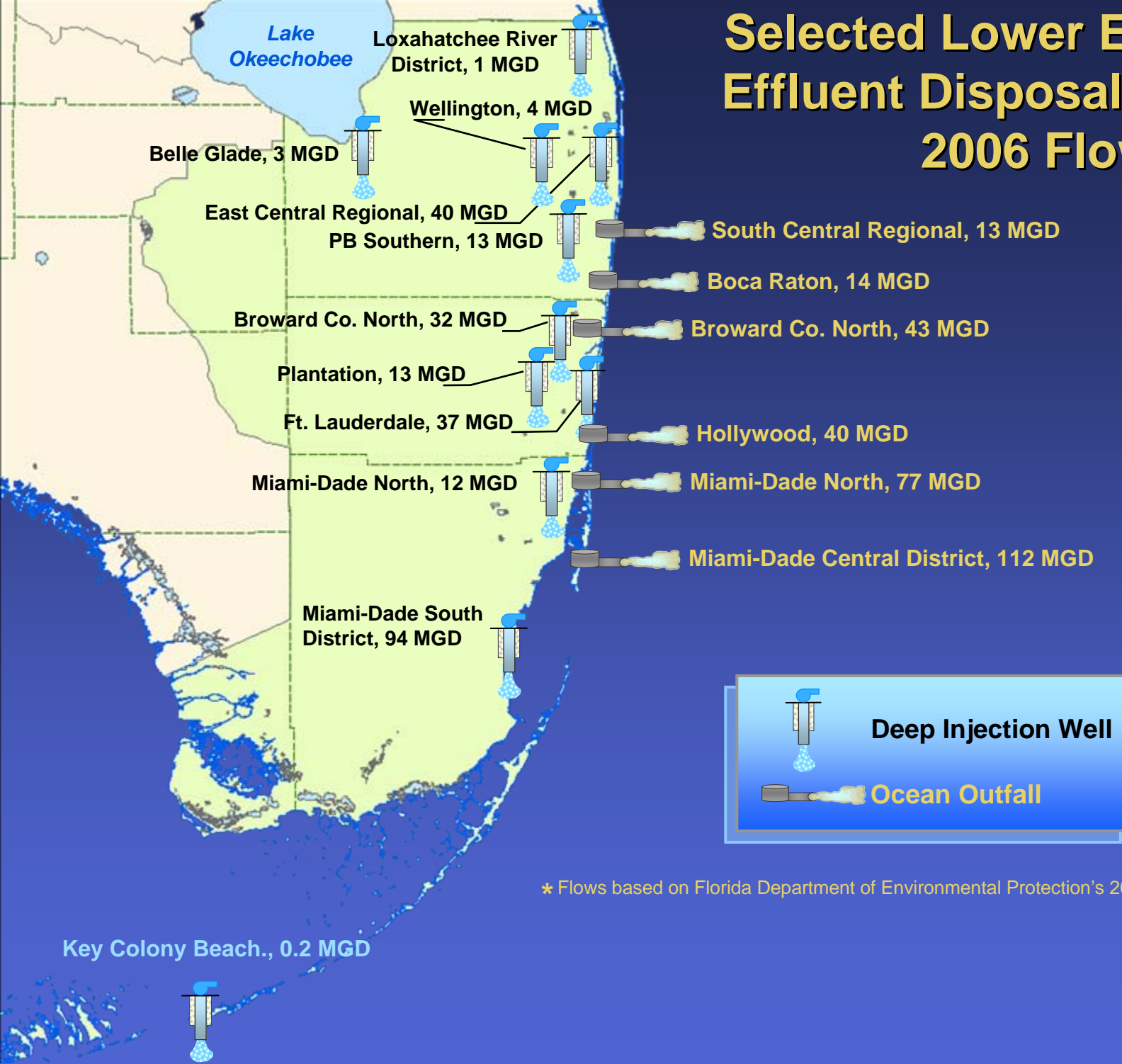
■ Total 2006 Reuse: 229 MGD** (28%)

■ Projected 2025 Reuse: 672 MGD** (56%)

* Based on Regional Water Supply Plan Updates, Recent Consumptive Use Permits and 2008 Ocean Outfall Legislation

** MGD = Million Gallons Per Day

Selected Lower East Coast Effluent Disposal Sites and 2006 Flow



 **Deep Injection Well**

 **Ocean Outfall**

* Flows based on Florida Department of Environmental Protection's 2006 Reuse Inventory

Reuse Summary of Planning Regions 2006 vs 2025

