2017 Lower West Coast Water Supply Plan Update

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Water Supply Bureau
South Florida Water Management District
Water Resource Advisory Commission
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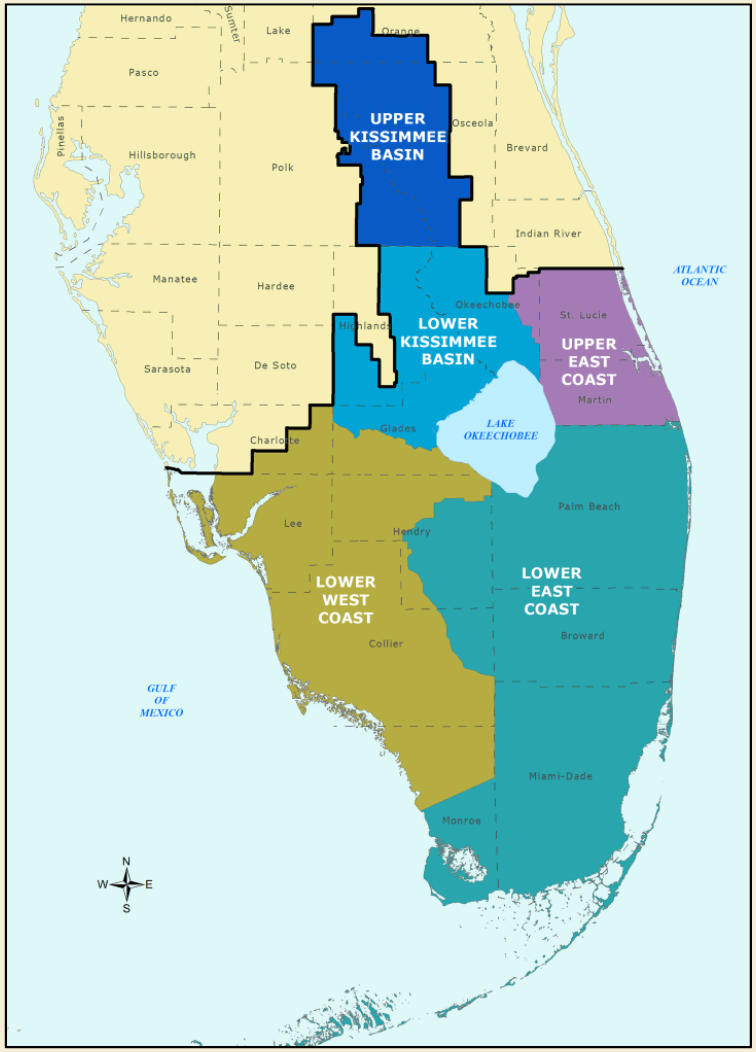
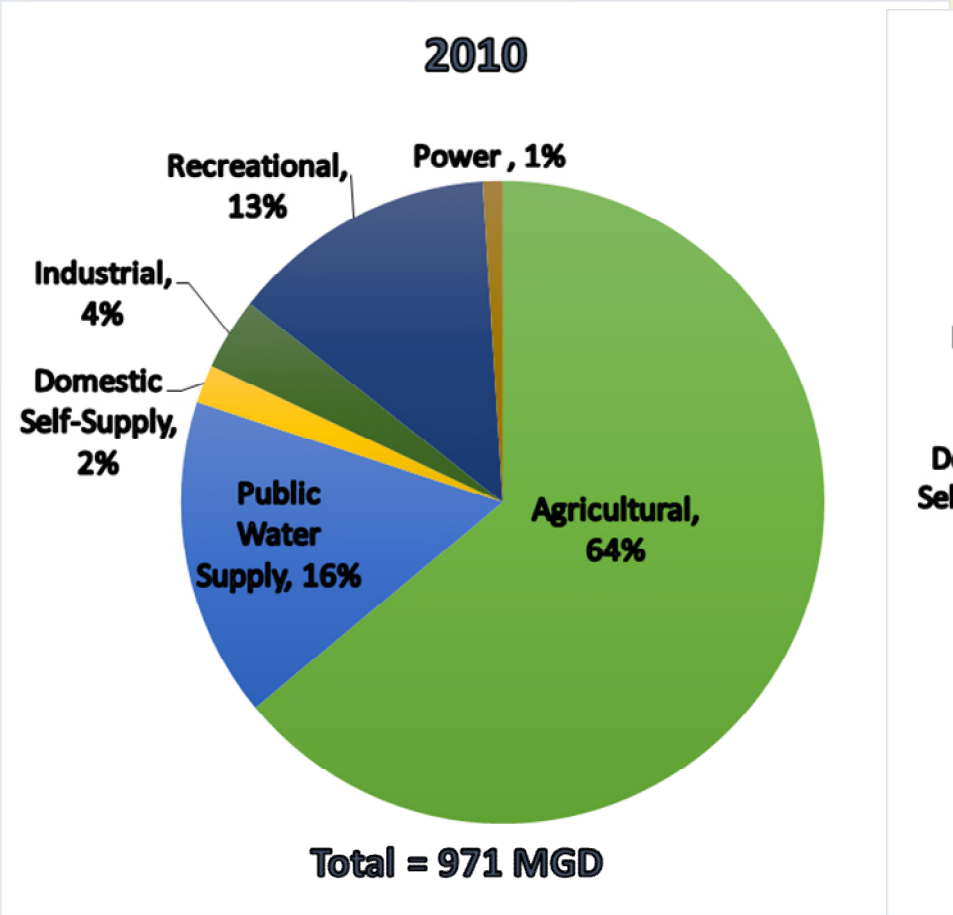
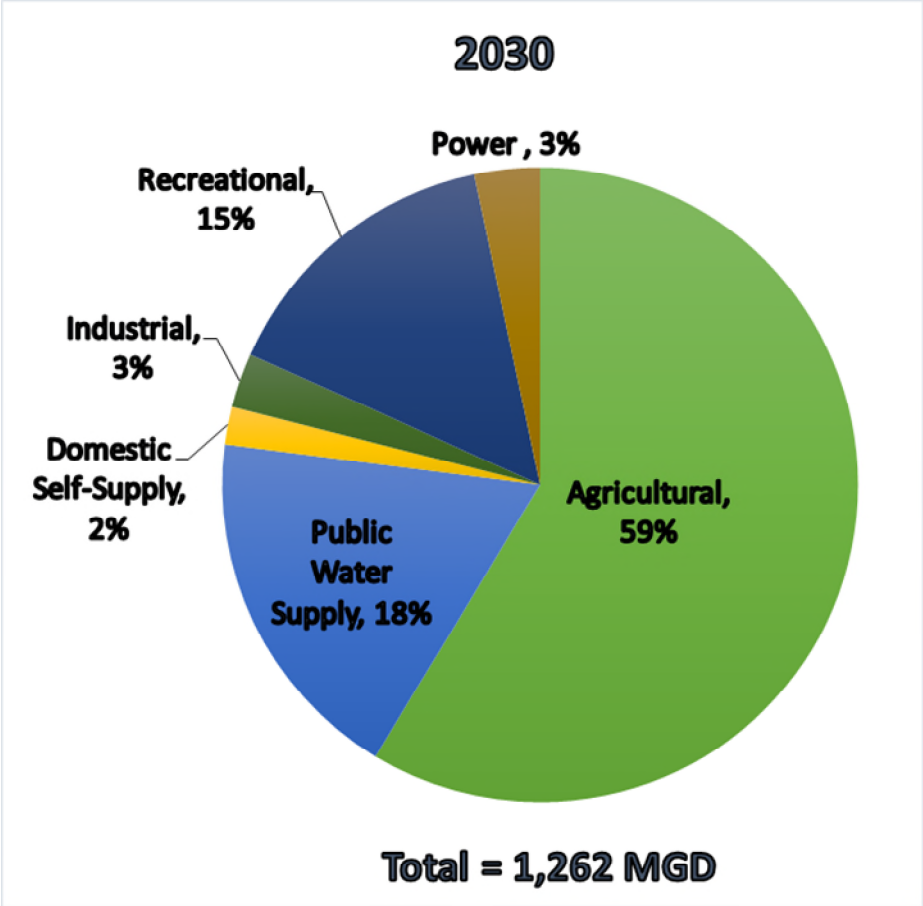
Water Supply Plan Requirements

- 20-year planning period
- Demand estimates and projections
- Resource analyses
- Issues identification
- Evaluation of water source options
  - Including conservation
- Water Resource Development
  - Responsibility of Water Management
- Water Supply Development
  - Responsibility of water users
- Minimum Flows and Levels
  - Recovery and prevention strategies



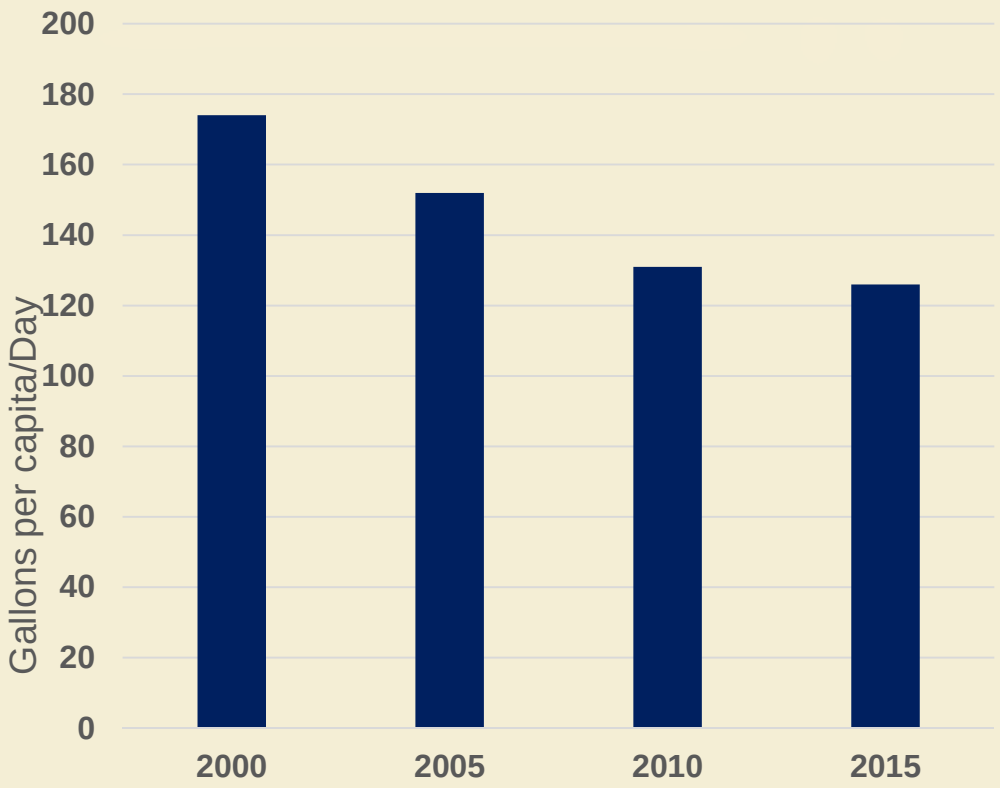
2012 Lower West Coast Water Supply Plan Estimated Gross Water Demands*





* Does include return flow

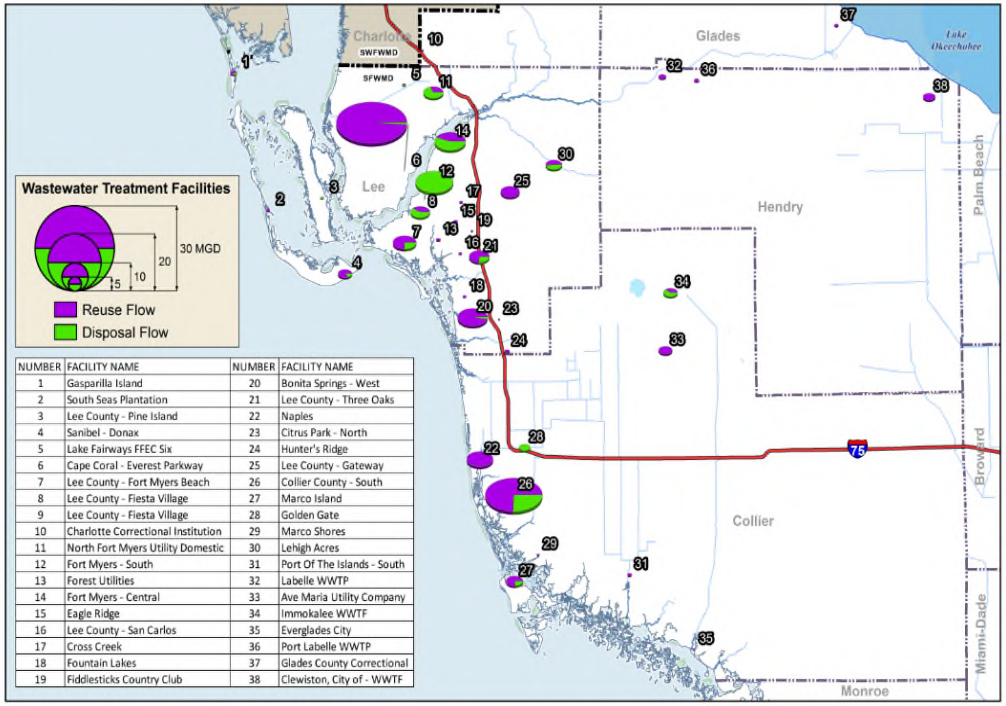
Lower West Coast Water Conservation



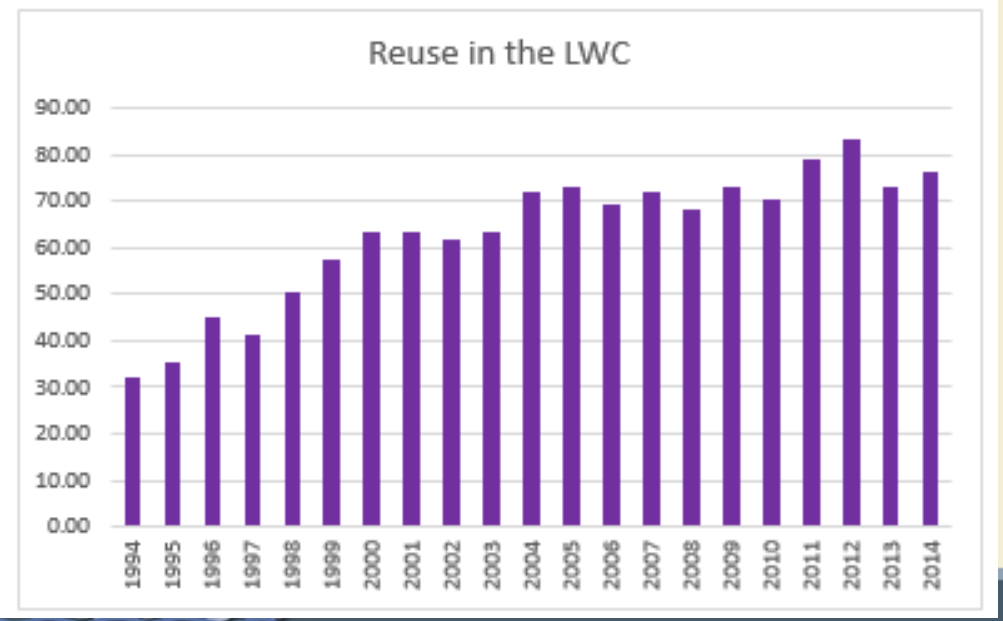
- All water sources should be used efficiently by all users
- Agriculture
  - Conversion to micro-irrigation
  - Florida Department of Agriculture and Consumer Services Best Management Practices
- Public water supply per capita use rate

The cheapest gallon of water is the gallon we don't use

Reuse in the Lower West Coast



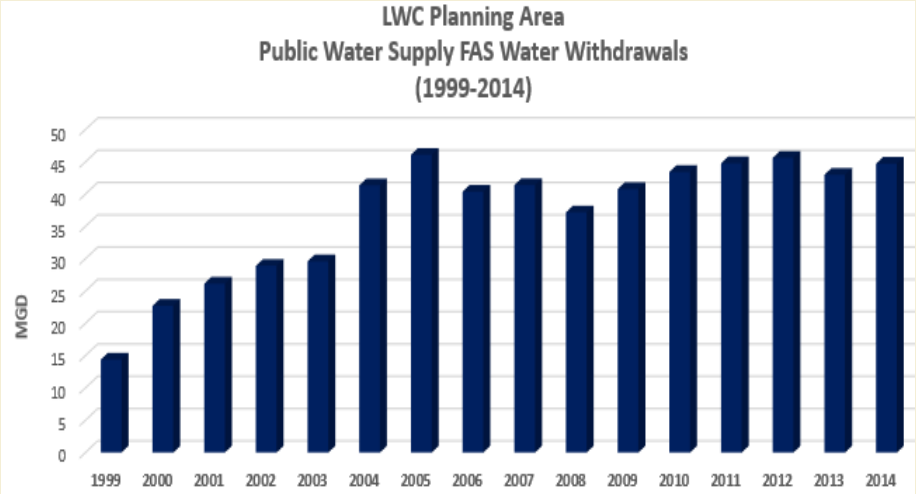
NUMBER	FACILITY NAME	NUMBER	FACILITY NAME
1	Gasparilla Island	20	Bonita Springs - West
2	South Seas Plantation	21	Lee County - Three Oaks
3	Lee County - Pine Island	22	Naples
4	Sanibel - Donax	23	Citrus Park - North
5	Lake Fairways FFEC Six	24	Hunter's Ridge
6	Cape Coral - Everest Parkway	25	Lee County - Gateway
7	Lee County - Fort Myers Beach	26	Collier County - South
8	Lee County - Fiesta Village	27	Marco Island
9	Lee County - Fiesta Village	28	Golden Gate
10	Charlotte Correctional Institution	29	Marco Shores
11	North Fort Myers Utility Domestic	30	Lehigh Acres
12	Fort Myers - South	31	Port Of The Islands - South
13	Forest Utilities	32	Labelle WWTP
14	Fort Myers - Central	33	Ave Maria Utility Company
15	Eagle Ridge	34	Immokalee WWTF
16	Lee County - San Carlos	35	Everglades City
17	Cross Creek	36	Port Labelle WWTP
18	Fountain Lakes	37	Glades County Correctional
19	Fiddlesticks Country Club	38	Clewiston, City of - WWTF

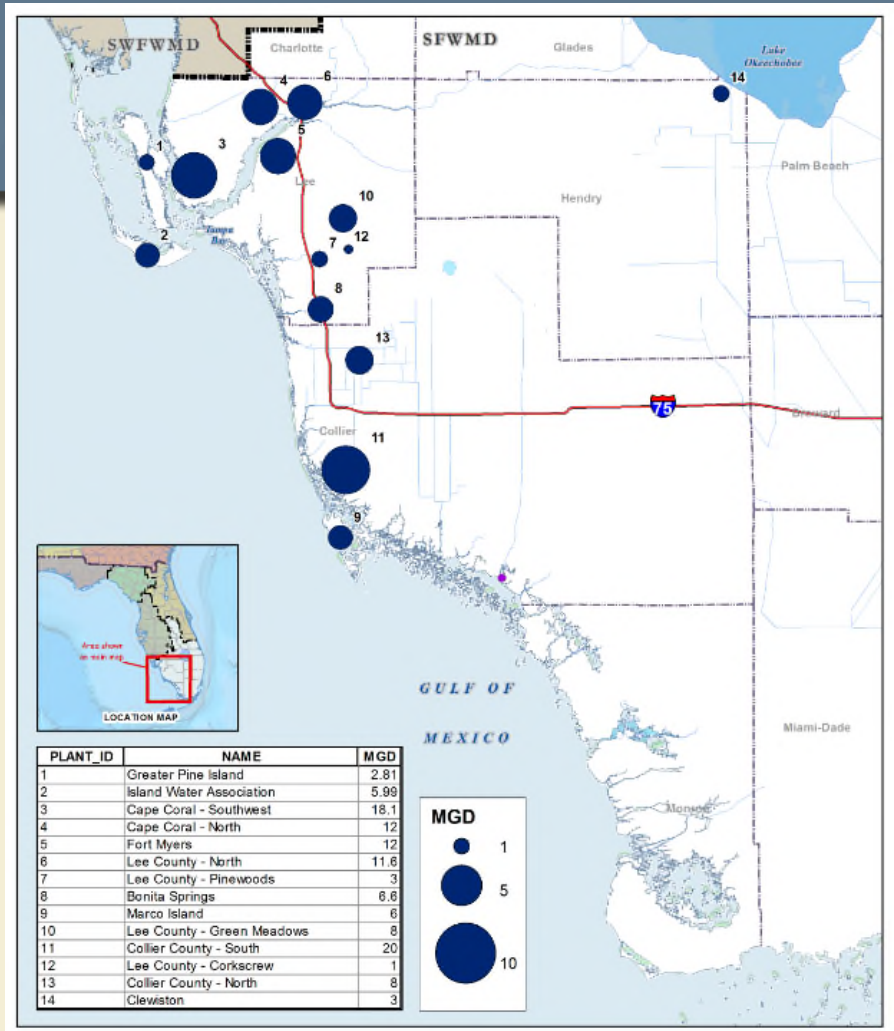


- Currently about 80 million gallons per day reused
- For irrigation of residential lots, golf courses, parks and other green space

Reliance on Brackish Water

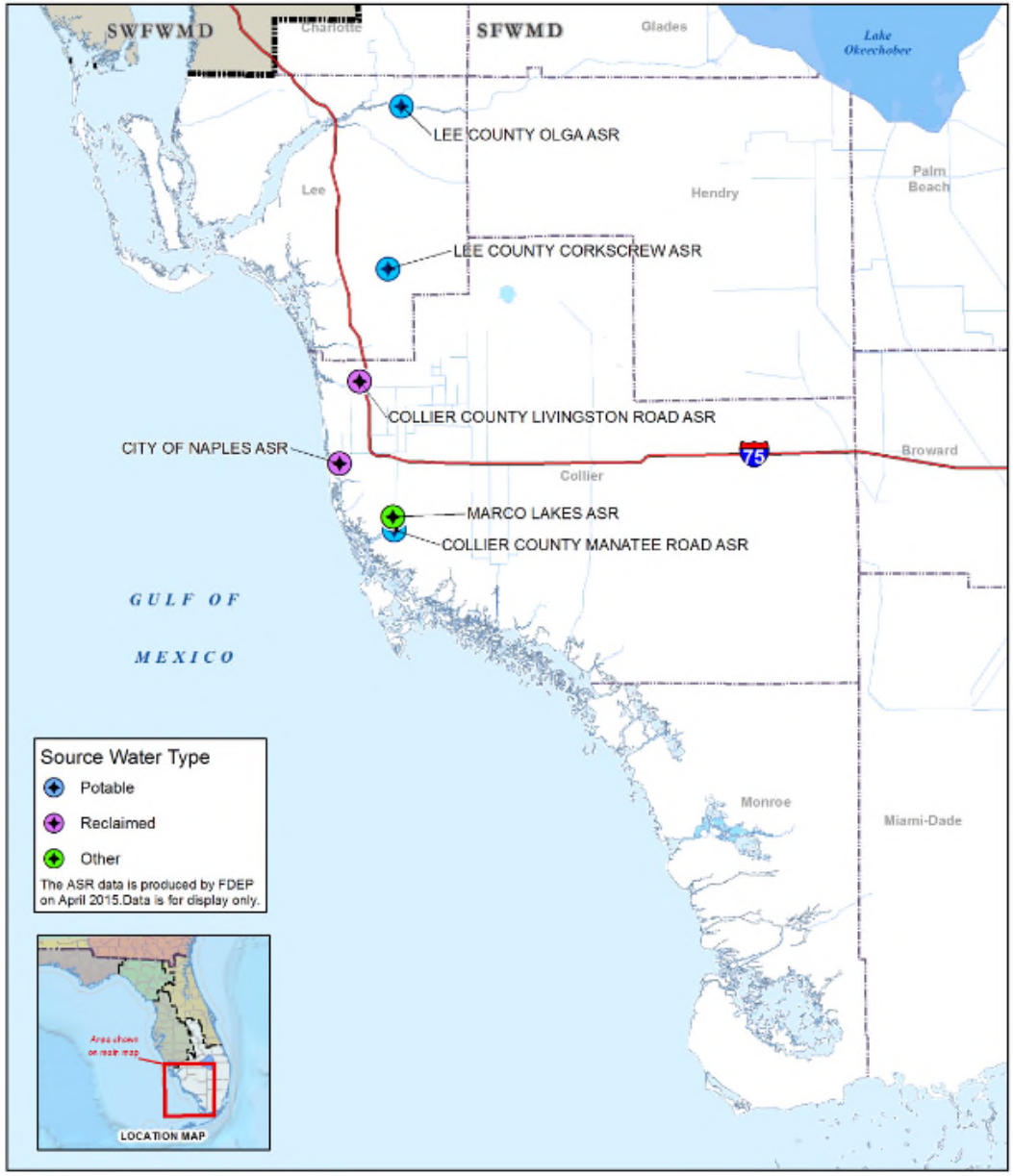
- 14 Facilities
- 120 million gallons per day of capacity
- Reverse osmosis treatment
- Floridan aquifer source





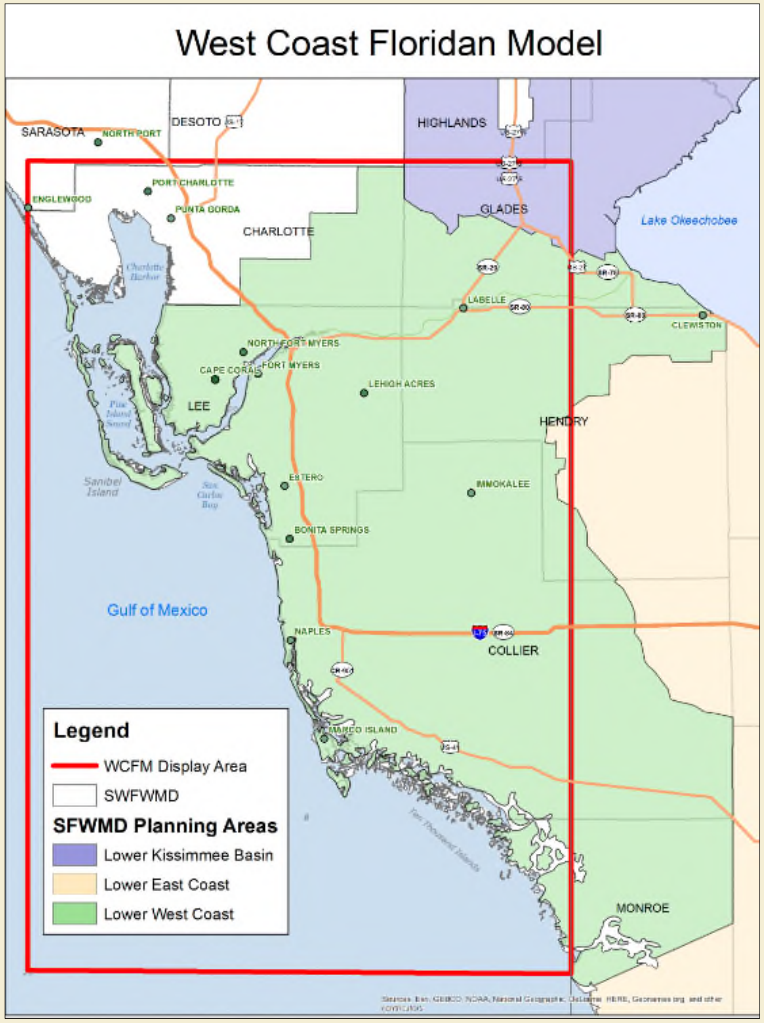
PLANT_ID	NAME	MGD
1	Greater Pine Island	2.81
2	Island Water Association	5.99
3	Cape Coral - Southwest	18.1
4	Cape Coral - North	12
5	Fort Myers	12
6	Lee County - North	11.6
7	Lee County - Pinewoods	3
8	Bonita Springs	6.6
9	Marco Island	6
10	Lee County - Green Meadows	8
11	Collier County - South	20
12	Lee County - Corkscrew	1
13	Collier County - North	8
14	Clewiston	3

Aquifer Storage and Recovery



- Used to store reclaimed water, surface water, and potable water
- 18 active wells
- Largest system in South Florida Water Management District in Marco Island

Lower West Coast Groundwater Modeling



- **West Coast Floridan Model**
  - **Assess water levels and water quality**
- **Lower West Coast Surficial and Intermediate Aquifer Model**
  - **In development**

2017 Lower West Coast Water Supply Plan Update Schedule

- Scope, Schedule and Process
- Population and Water Demands
- FAS Model Results
- Water Source Options and Projects
- Conclusions and Comprehensive Review

Lower West Coast Water Supply Plan Update Process

Mid-2015	June 30, 2016	Late 2016	Early to mid- 2017	Late 2017
Start Update Process	Kick-off Meeting	Updates to Water Resources Advisory Commission and Governing Board		Governing Board Approval

2017 Lower West Coast Water Supply Plan Update

- **Planning horizon 2015 – 2040**

<u>Public participation</u>

- **Water Resources Advisory Commission Issues Workshops**
- **Updates to full Water Resources Advisory Commission**
- **One-on-one meetings and discussions with stakeholders**
- **Meetings with stakeholder groups**
- **Governing Board presentations**

Need Water Supply Plan Information?

- **Plan information can be found at: www.sfwmd.gov**
  - **Then click "Lower West Coast Plan"**
- **Workshop announcements sent by email**
- **Plan Kickoff Meeting: June 30**
  - **Bonita Springs Government Center**

Questions?

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