

Linking Water Supply & Land Use Planning

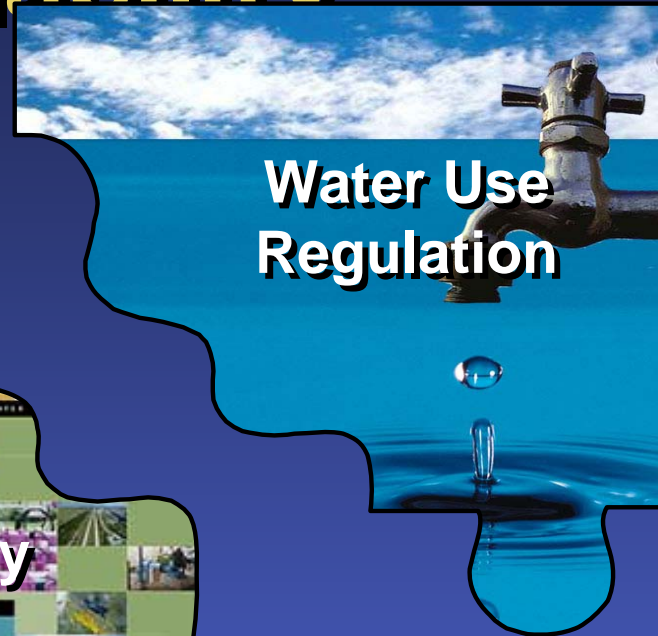
Jim Jackson, AICP
Senior Supervising Planner
Water Supply Planning Division

June 6, 2007



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State Law Now Links Growth with Water Supply Components with Water Availability



Linking Growth with Water Availability

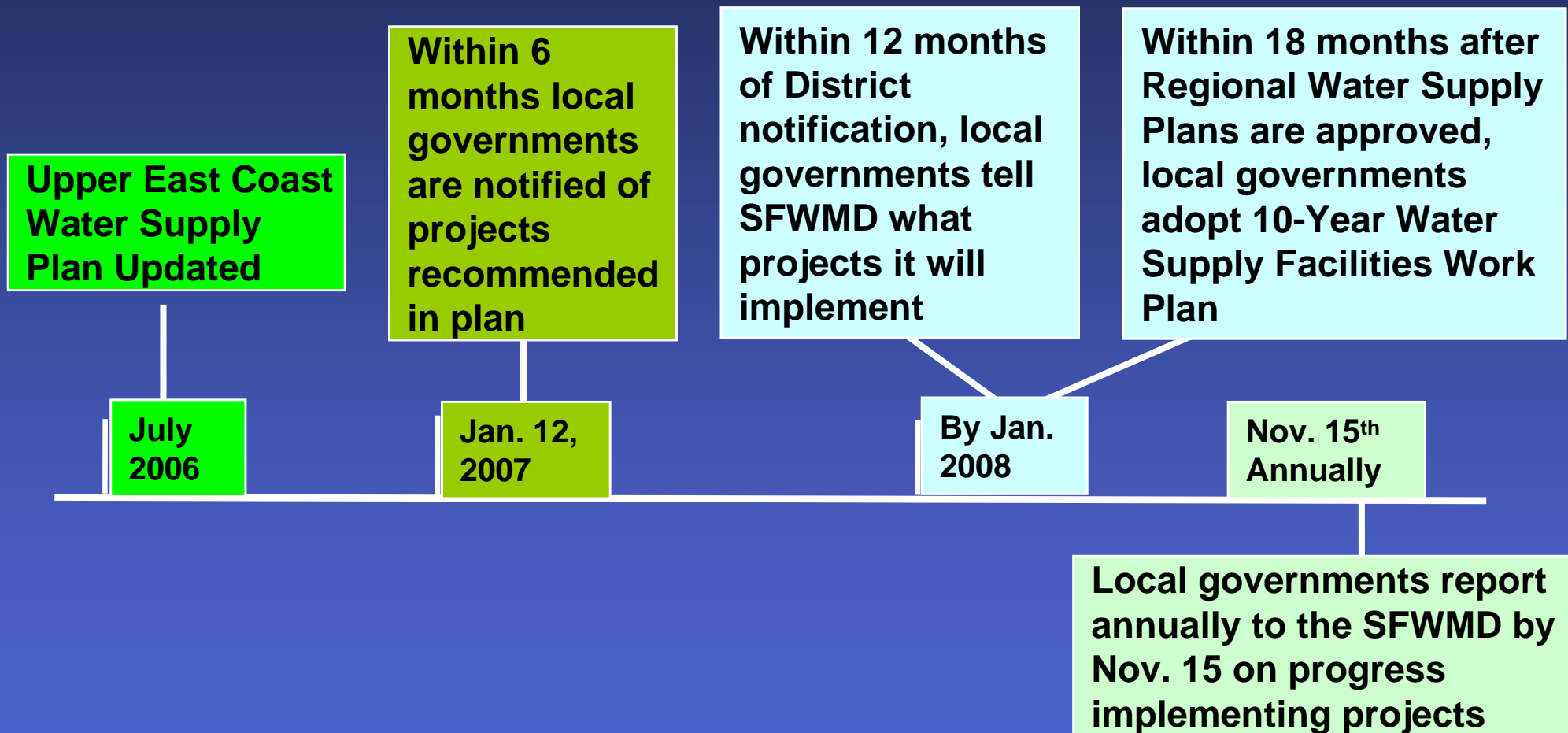
- Increased focus on alternative water supplies
- Improved communication between utilities and planning departments
- Strengthened link between water supply plans and land use planning

Why are Alternative Water Supplies Needed?

- Traditional sources are limited
- Proactive approach to meet future water needs
- Reduce potential impacts on and competition with natural resources
- One time use of water is no longer considered beneficial use



Linking Water Supply & Land Use Planning



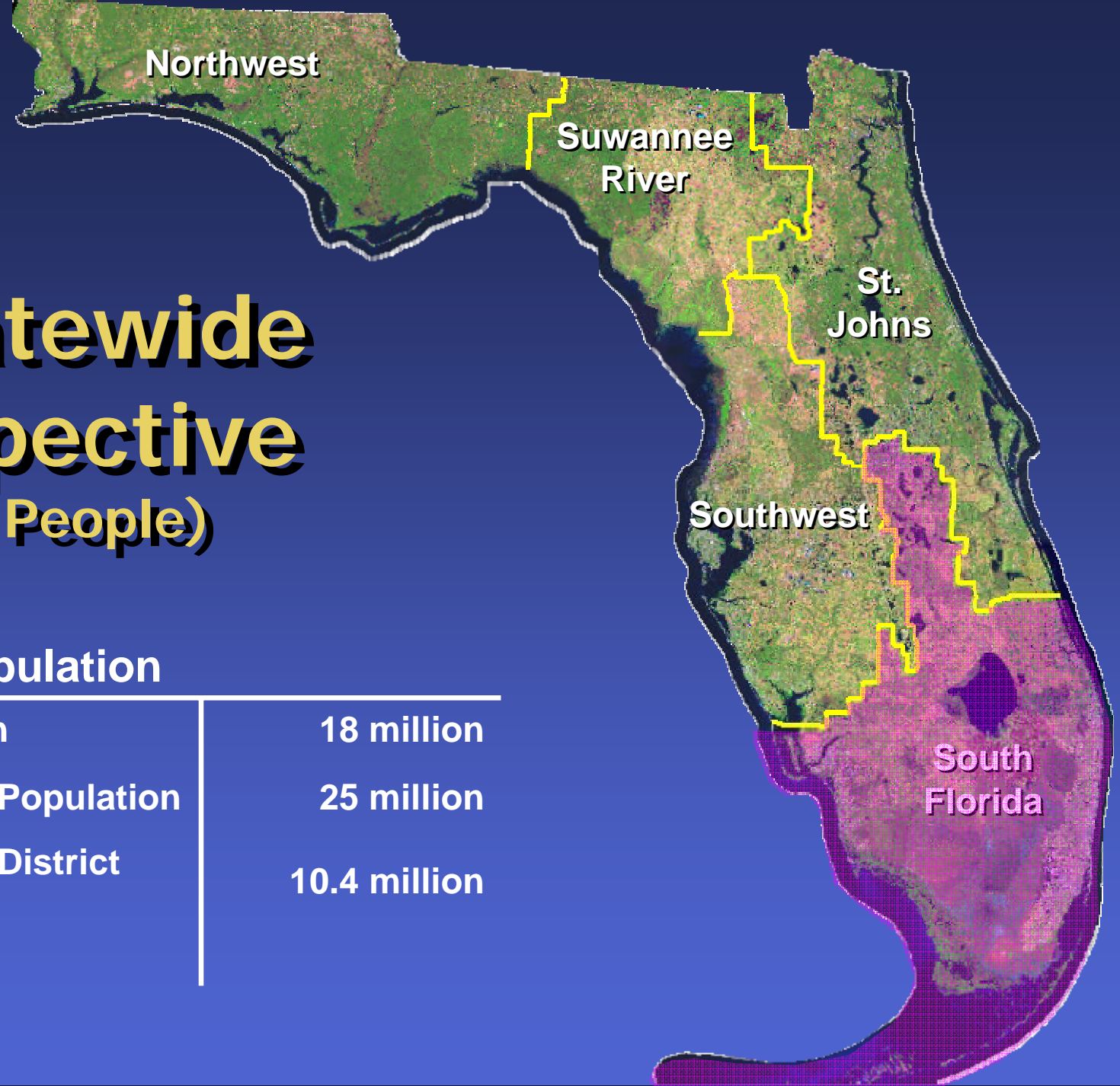
Local Governments Are Required to Respond

- **Within 12 months of receiving letter, Local Governments must notify SFWMD:**
 - **Which recommended projects will be built**
 - **Identify additional projects to replace or supplement recommended projects**
 - **Identify quantity of water to be produced**
 - **Provide status of implementing projects**

A Statewide Perspective (The People)

Florida's Population

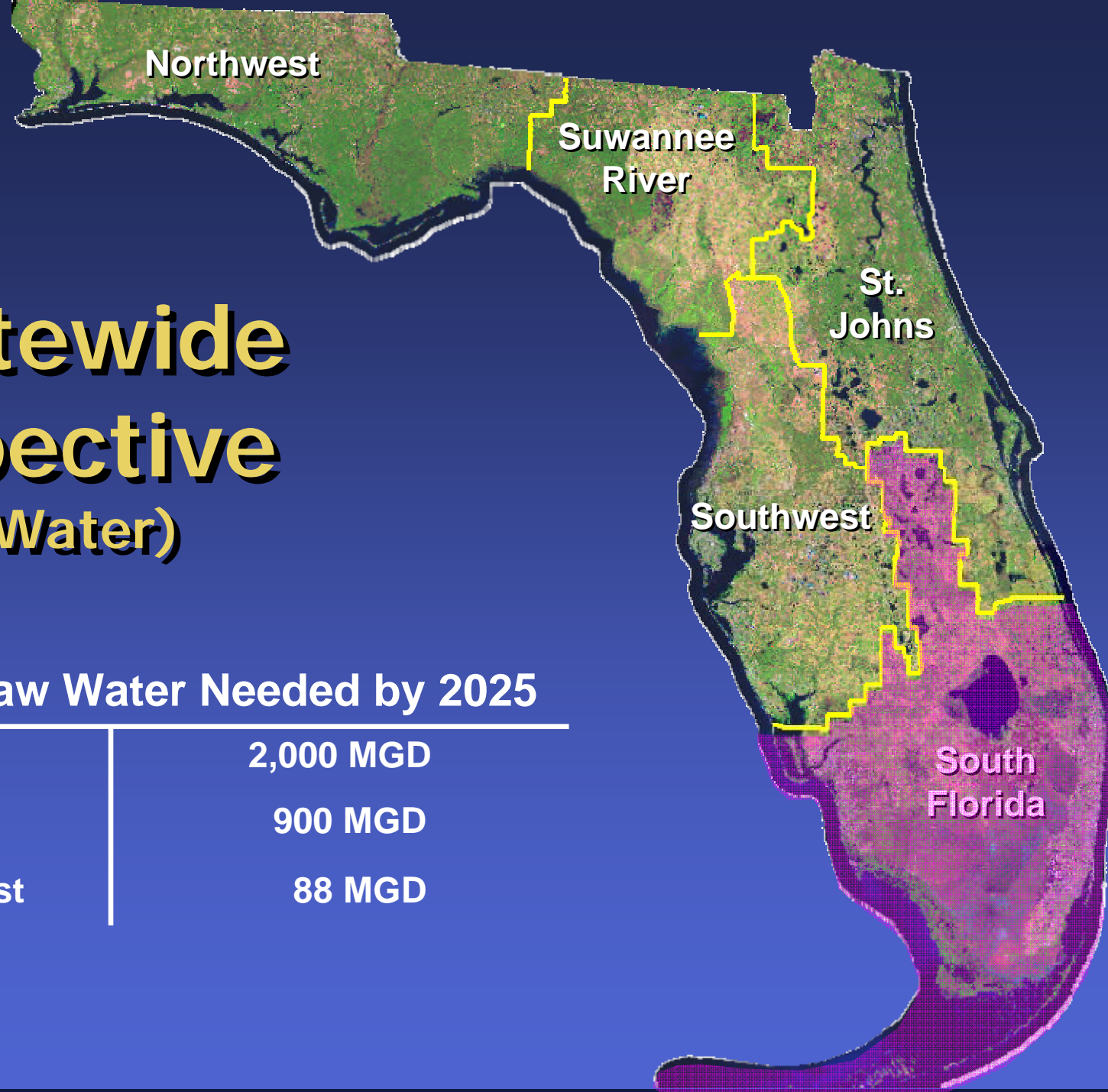
2005 Population	18 million
Projected 2025 Population	25 million
Projected 2025 District Population	10.4 million

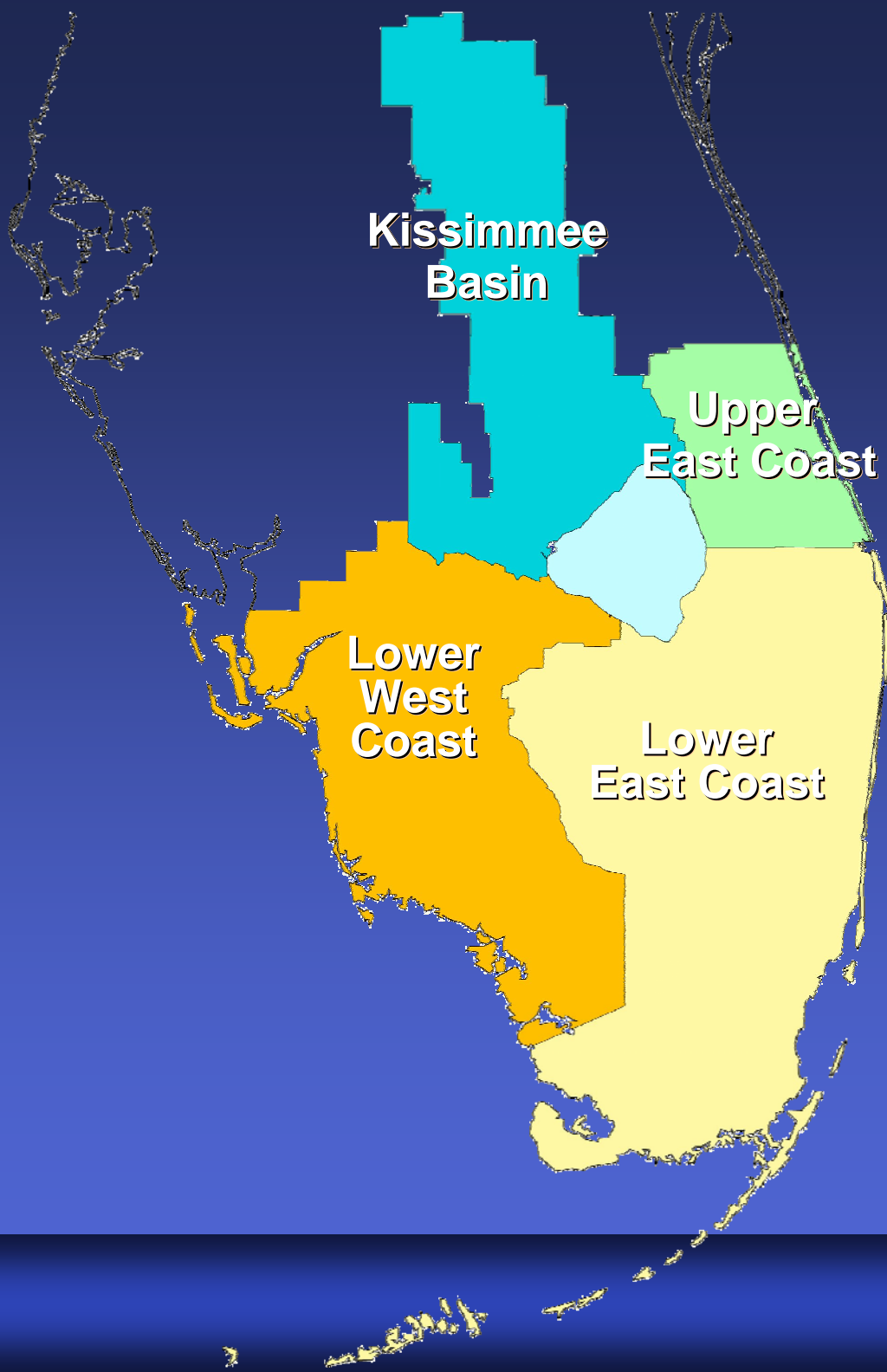


A Statewide Perspective (The Water)

Additional Raw Water Needed by 2025

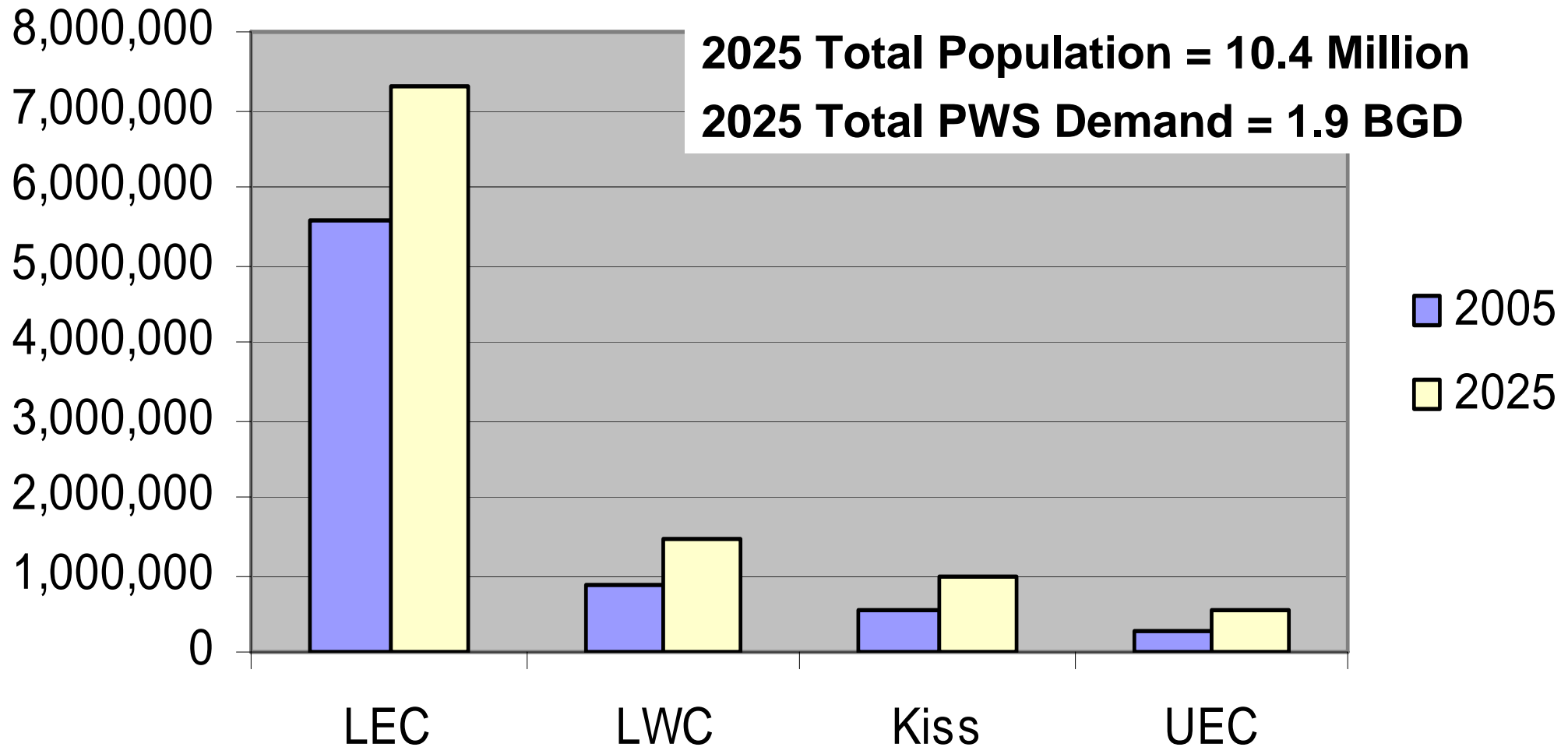
Statewide	2,000 MGD
SFWMD	900 MGD
Upper East Coast	88 MGD



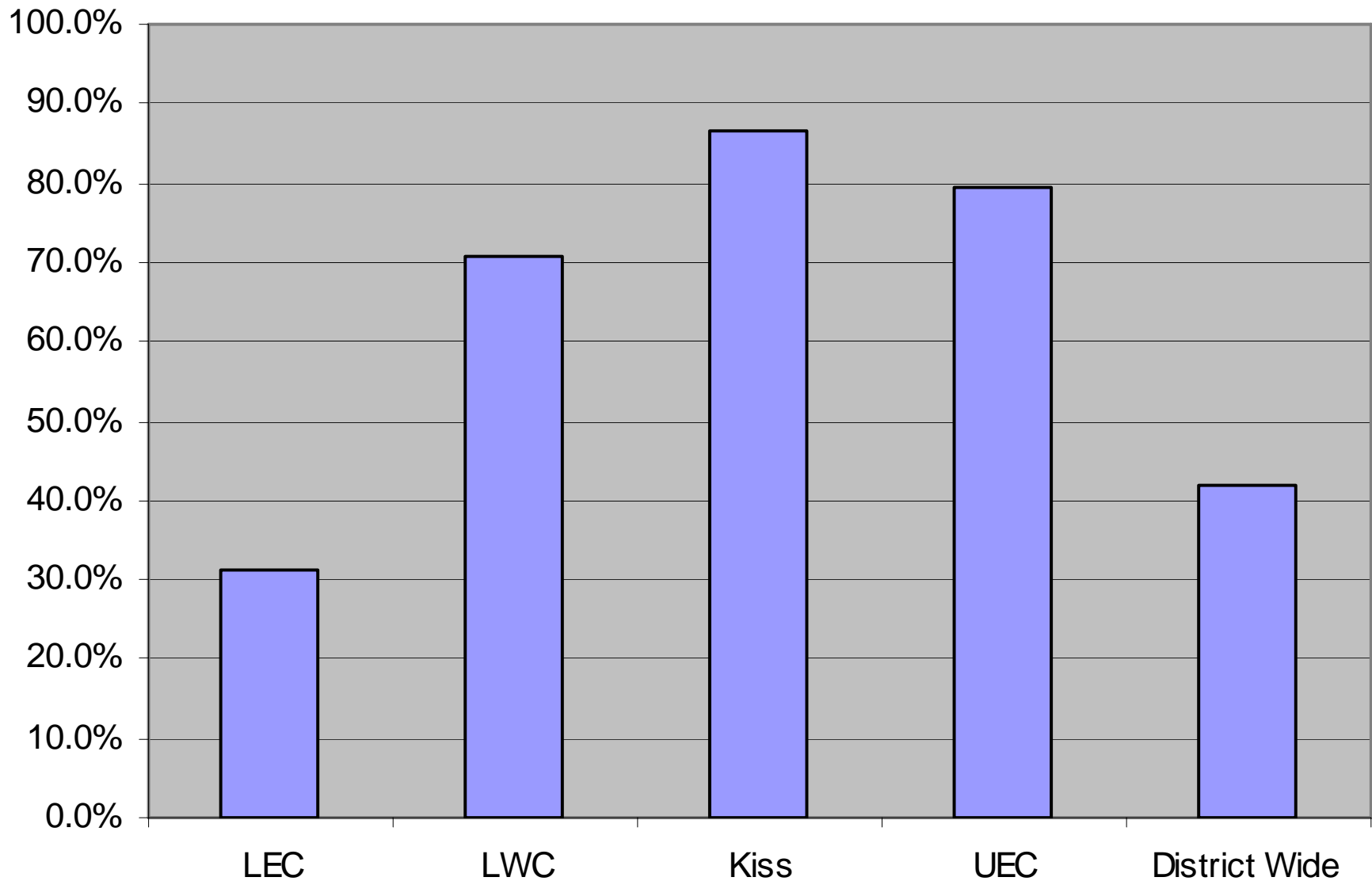


Four Planning Regions

Population by Region



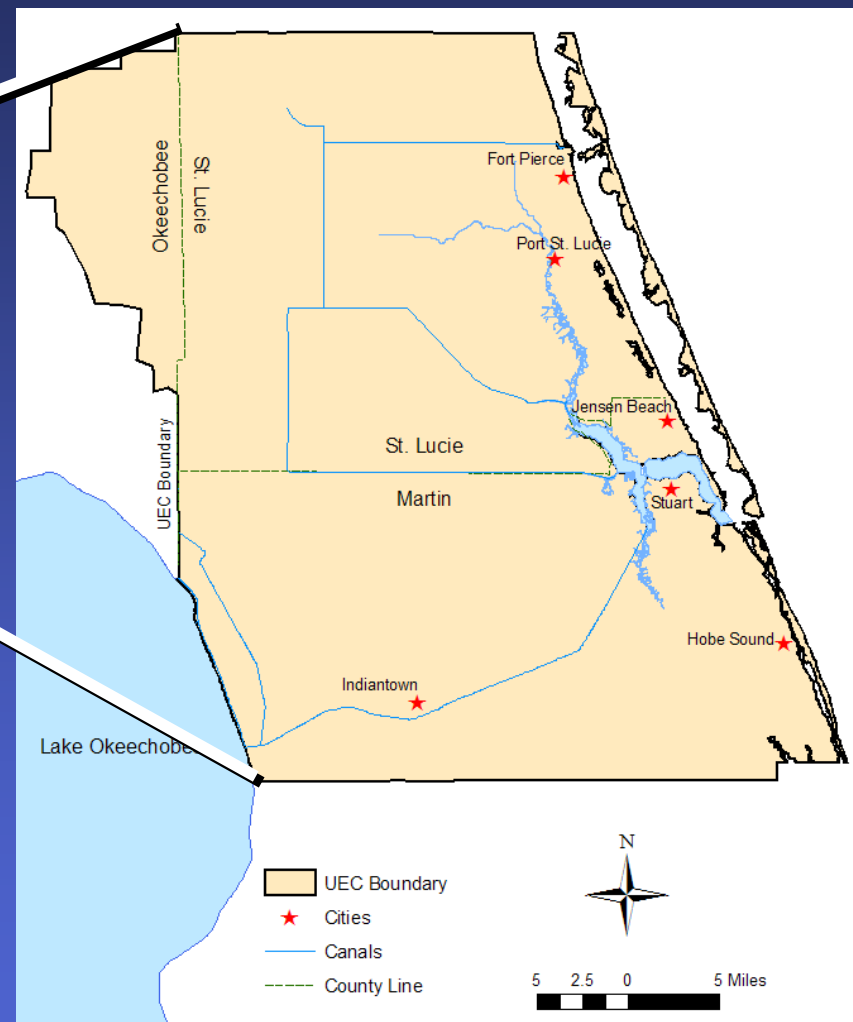
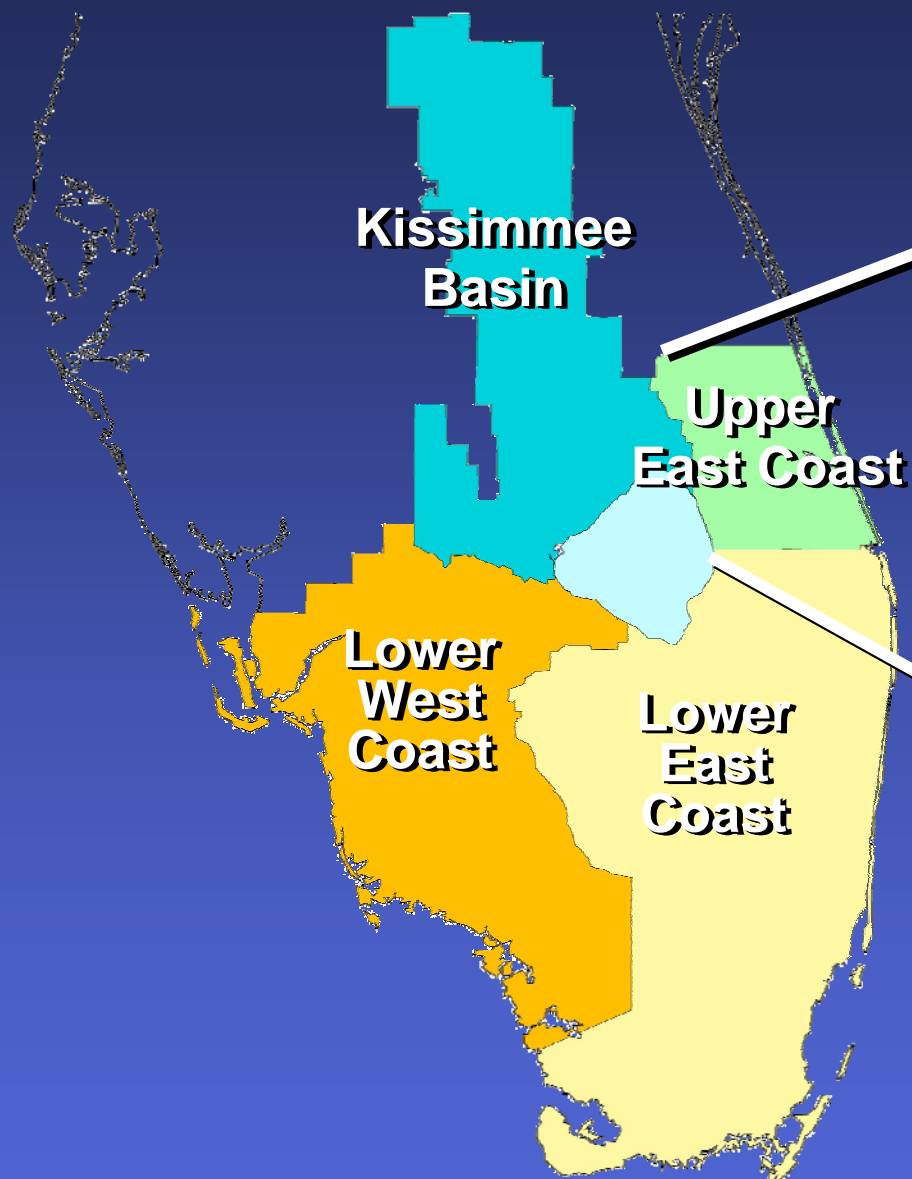
Percent Increase 2025 vs 2005 Population



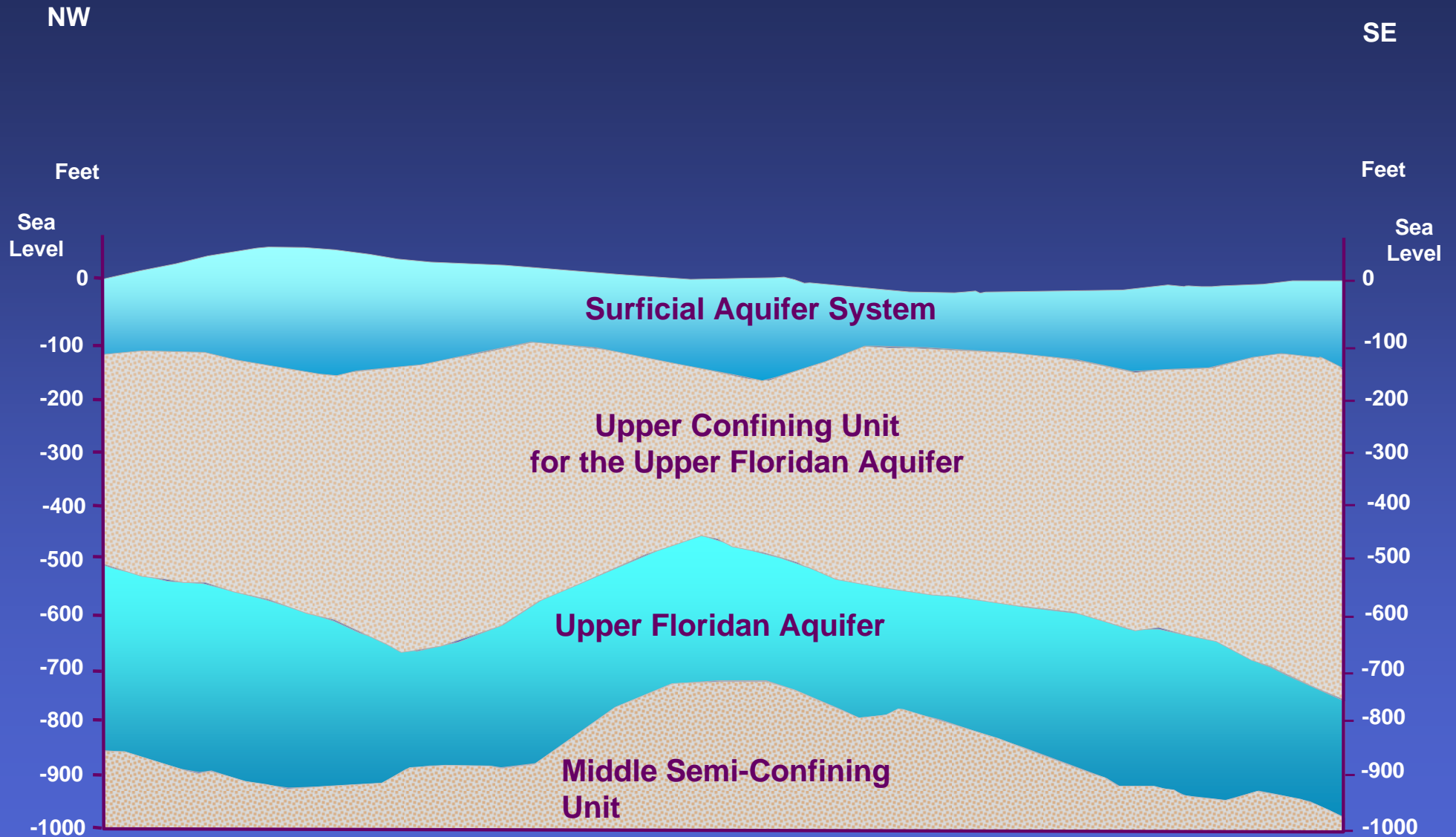
Public Water Supply Demands will be 1.9 Billion Gallons Per Day by 2025

	Current Demands	+ New Demands	= Total	
UEC (2000)	36.5	65.4	102 MGD	
Kiss (2000)	114	121	235 MGD	
LEC (2005)	912	375	1,287 MGD	
LWC (2005)	145	127	272 MGD	



UEC Planning Region



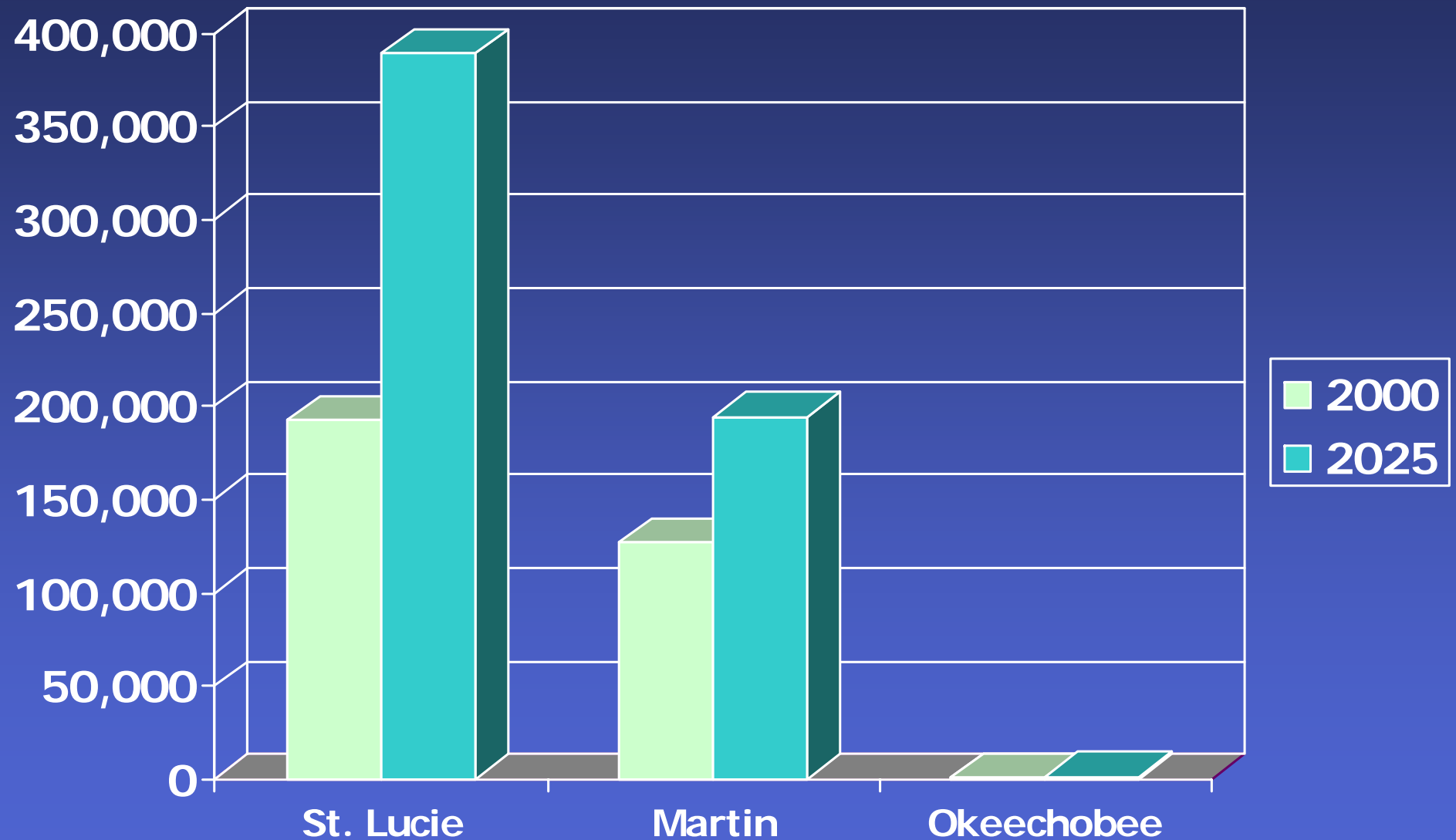
UEC Cross Section



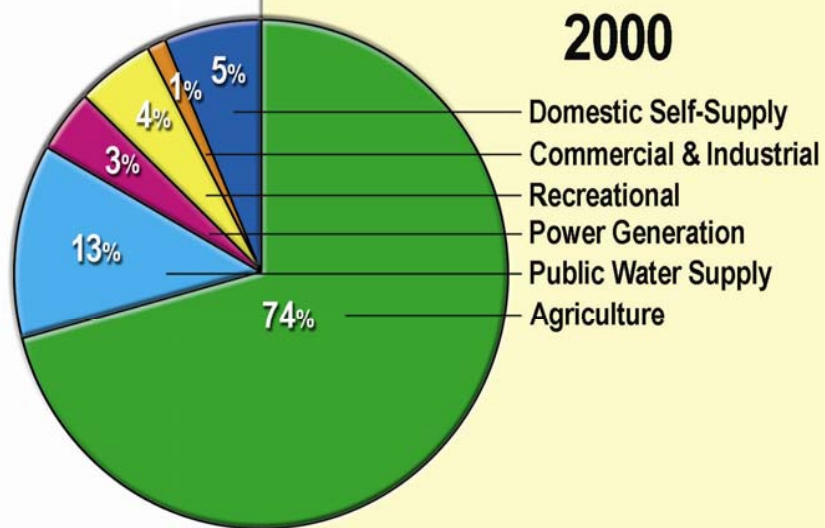
UEC Planning Region Population

2000	2025
	
320,664	584,927

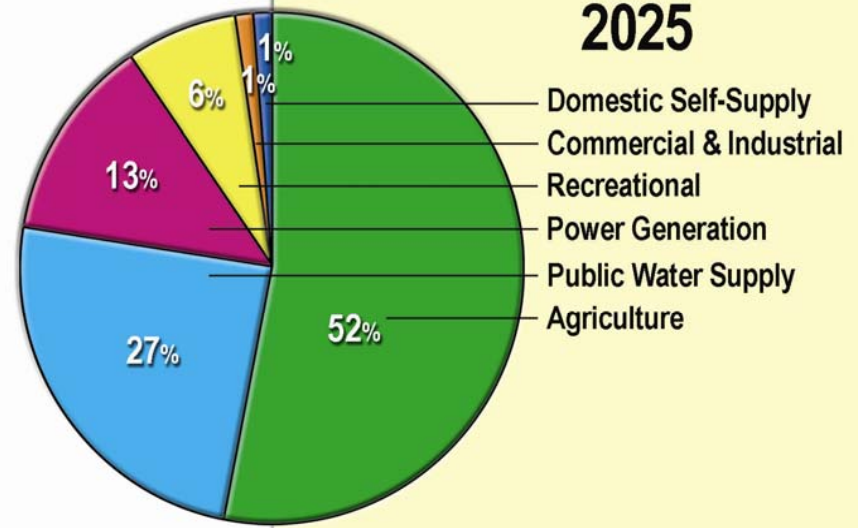
UEC Population



2000 & 2025 UEC Water Use Demands



Total Demand = 290 MGD



Total Demand = 378 MGD

UEC Public Water Supply Demands will be 81 Million Gallons per Day by 2025

**Current UEC
Demands**

**+ New
Demands**

**= Total UEC PWS
Future Demands**

St. Lucie

17 MGD

+

32 MGD

Martin

~17 MGD

+

15 MGD

Okeechobee

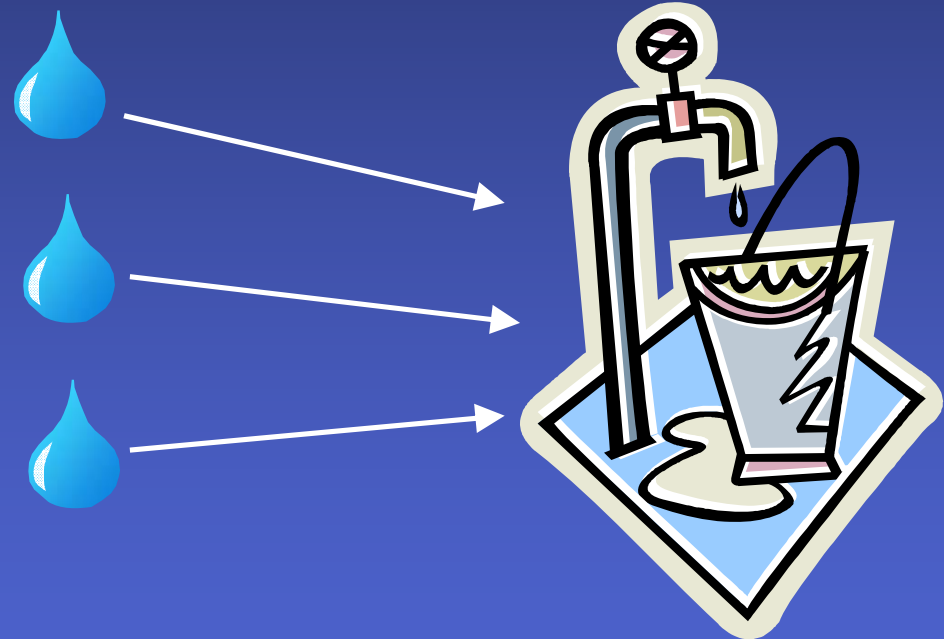
0 MGD

+

0 MGD

34 MGD

47 MGD

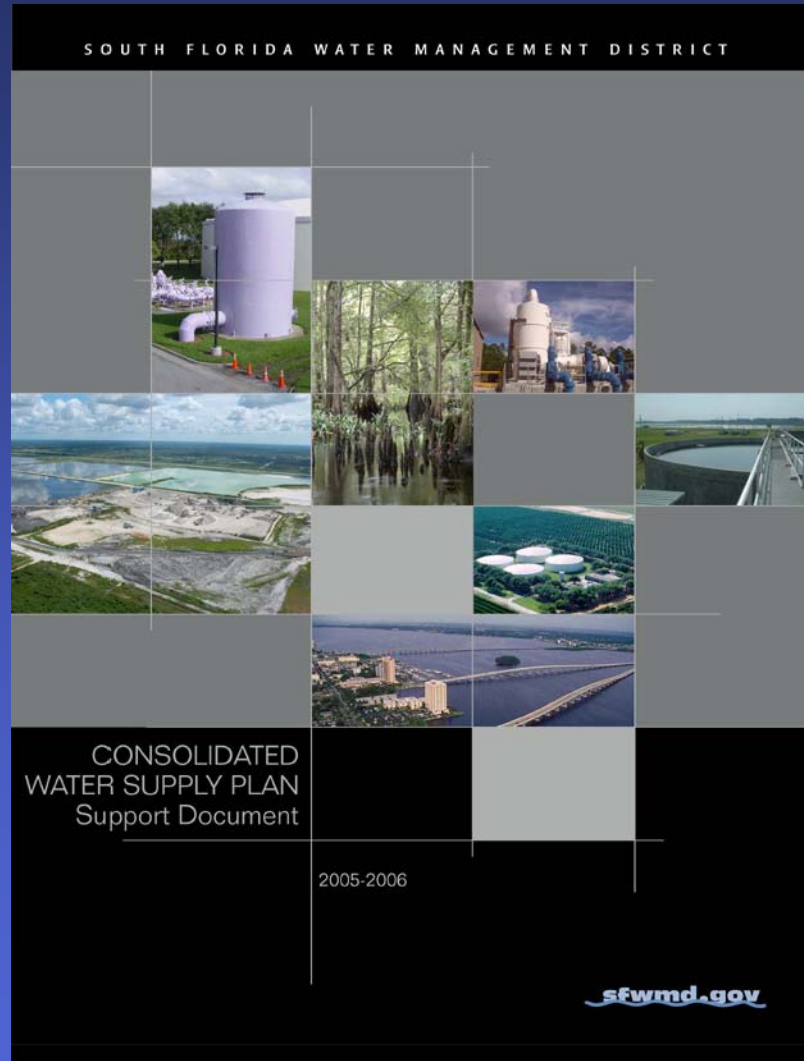


Regional Water Supply Plans

- 20-year Planning Period
- 1-in-10 Level of Certainty
- Water Resource Development
 - Region-level Projects
- Water Supply Development
 - Local-level Projects
- Minimum Flows and Levels (MFLs)
- 5-year updates



Consolidated Water Supply Support Document



Why Amend 2004 Plan?

- New state law requirements
- Information for local governments for compliance with new legislation
- Alternative water supply projects become eligible for District's funding
- Population projected for 2025 is 20% higher than it was in 2004 Plan (99,417 more people)

Upper East Coast Amendment Outline

Sections

1. Introduction
2. Demand Estimates and Projections
3. Water Supply Development Projects
Utility Summaries

Upper East Coast Amendment Appendices

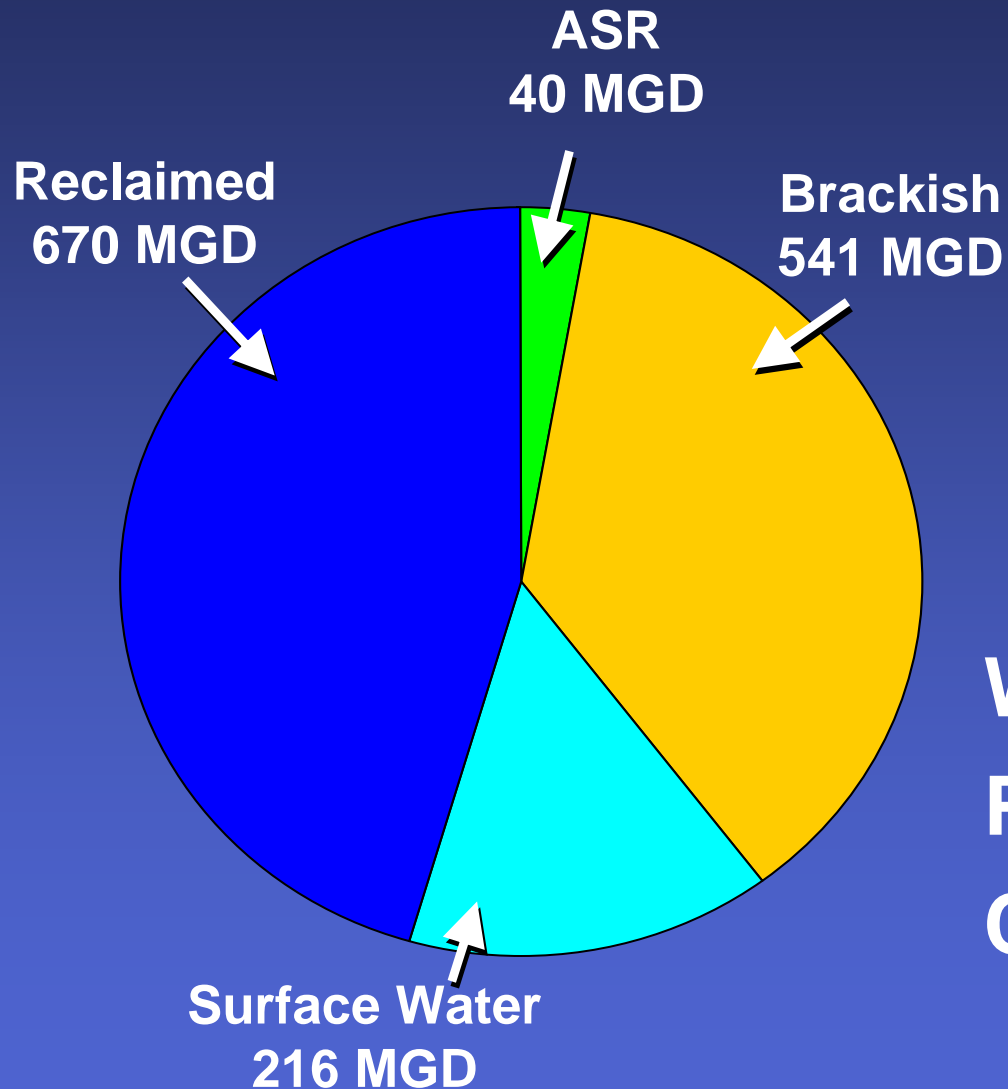
A: Demand Assessments and Projections

F: Water Supply Development Projects

**G: Information for Local Government
Comprehensive Plans**

How Will Future Demands Be Met?

Alternative Water Supplies



Water: 1.5 BGD
Projects: 314
Cost: \$ 4.6 Billion

ASR – Aquifer storage and recovery

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Future Sources

- **Focus on Alternative Water Sources & Conservation**
 - Brackish Groundwater
 - Reclaimed Water
 - Surface Water
 - Storage Options

- **Limited Traditional Sources**
 - Fresh Groundwater
 - Fresh Surface Water
(C-23, C-24 & C-25 Basins)

Water Supply Development Projects

- Specific water supply projects were added to the Amendment
- Projects Included in Amendment
 - 1 Traditional
 - 47 AWS (146 MGD)
 - 14 Brackish and 33 Reclaimed
- Eight AWS projects approved for funding in 2006 and 2007



Questions?



UPPER EAST COAST
Water Supply Plan

2006 AMENDMENT

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