

An aerial photograph of a large, irregularly shaped water reservoir with a light blue surface, surrounded by green fields and dense forests. A road or path runs along the right side of the reservoir. In the lower center, there is a cluster of industrial or utility buildings, including several large white storage tanks and some smaller structures. The overall scene is a mix of natural and developed land.

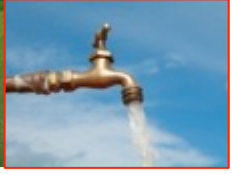
Alternative Water Supply Development in Florida Motivation & History

**Mike Coates, P.G.
Deputy Director**

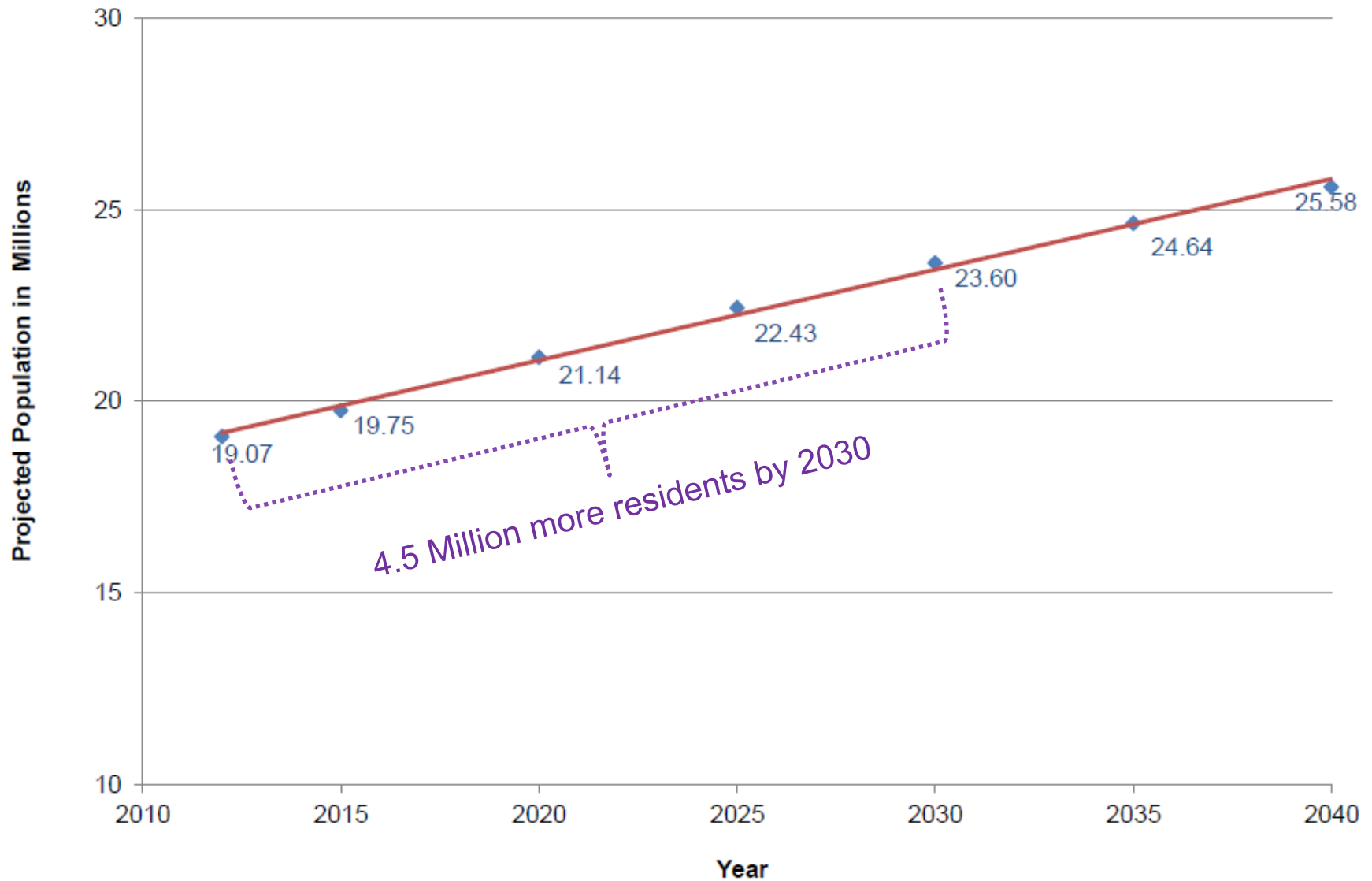
**Peace River Manasota Regional Water Supply
Authority**

gettyimages®

↑ Florida ↑



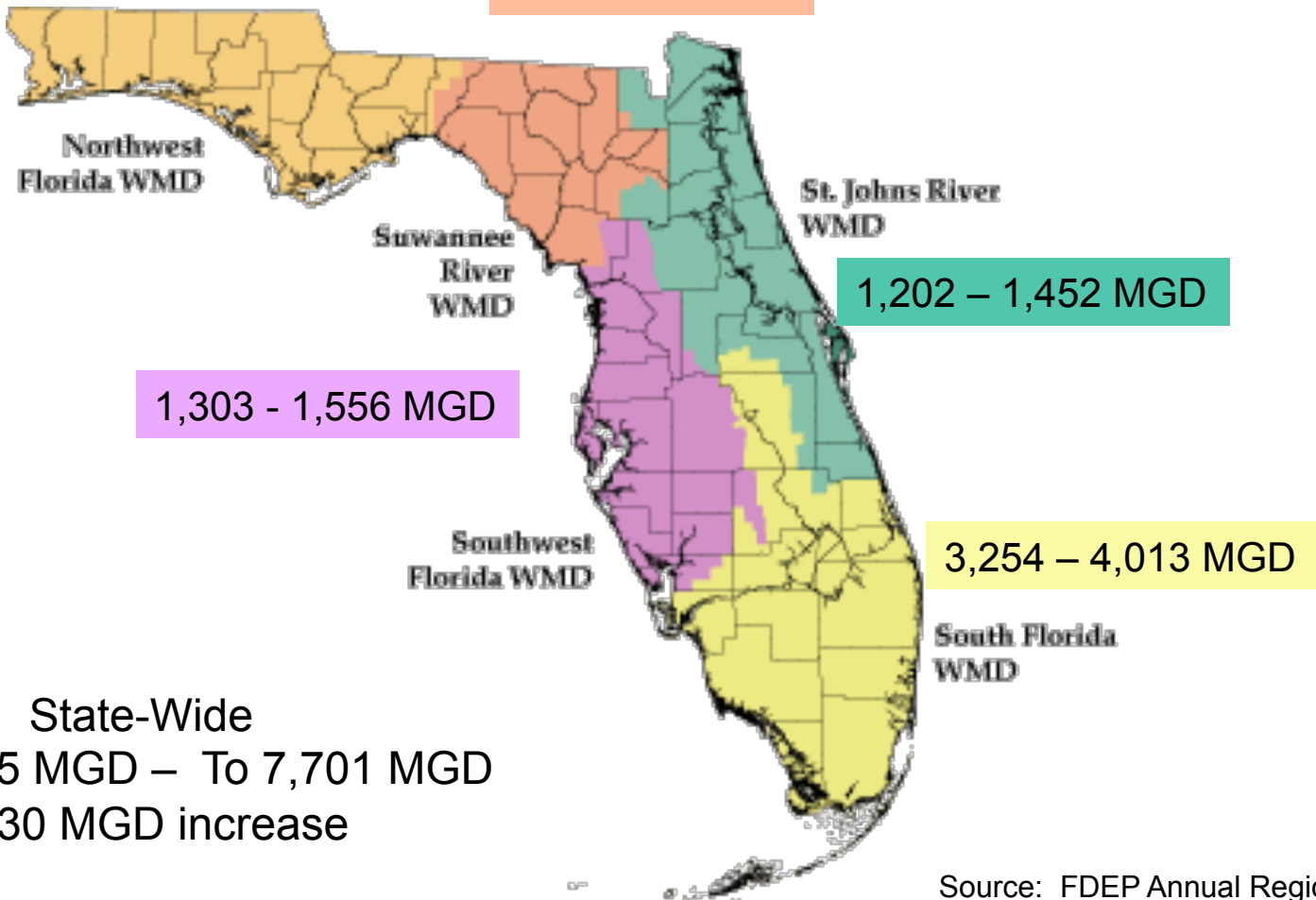
Projected Florida Population (BEBR Medium)



Water Use Changes 2010-2030

357 – 410 MGD

259 – 270 MGD

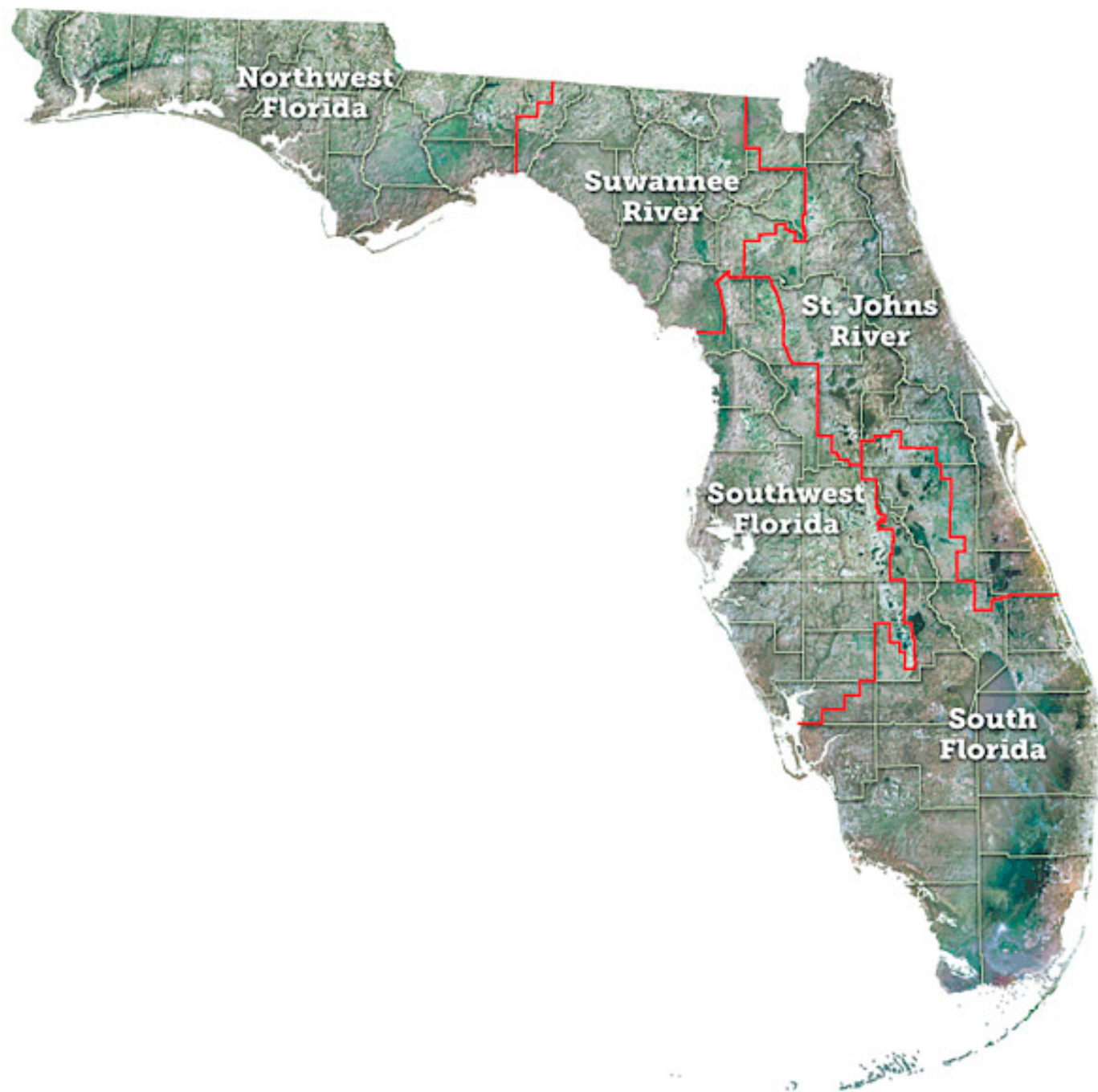


State-Wide
From 6,375 MGD – To 7,701 MGD
1,330 MGD increase

Source: FDEP Annual Regional Water Supply Planning, December 2013

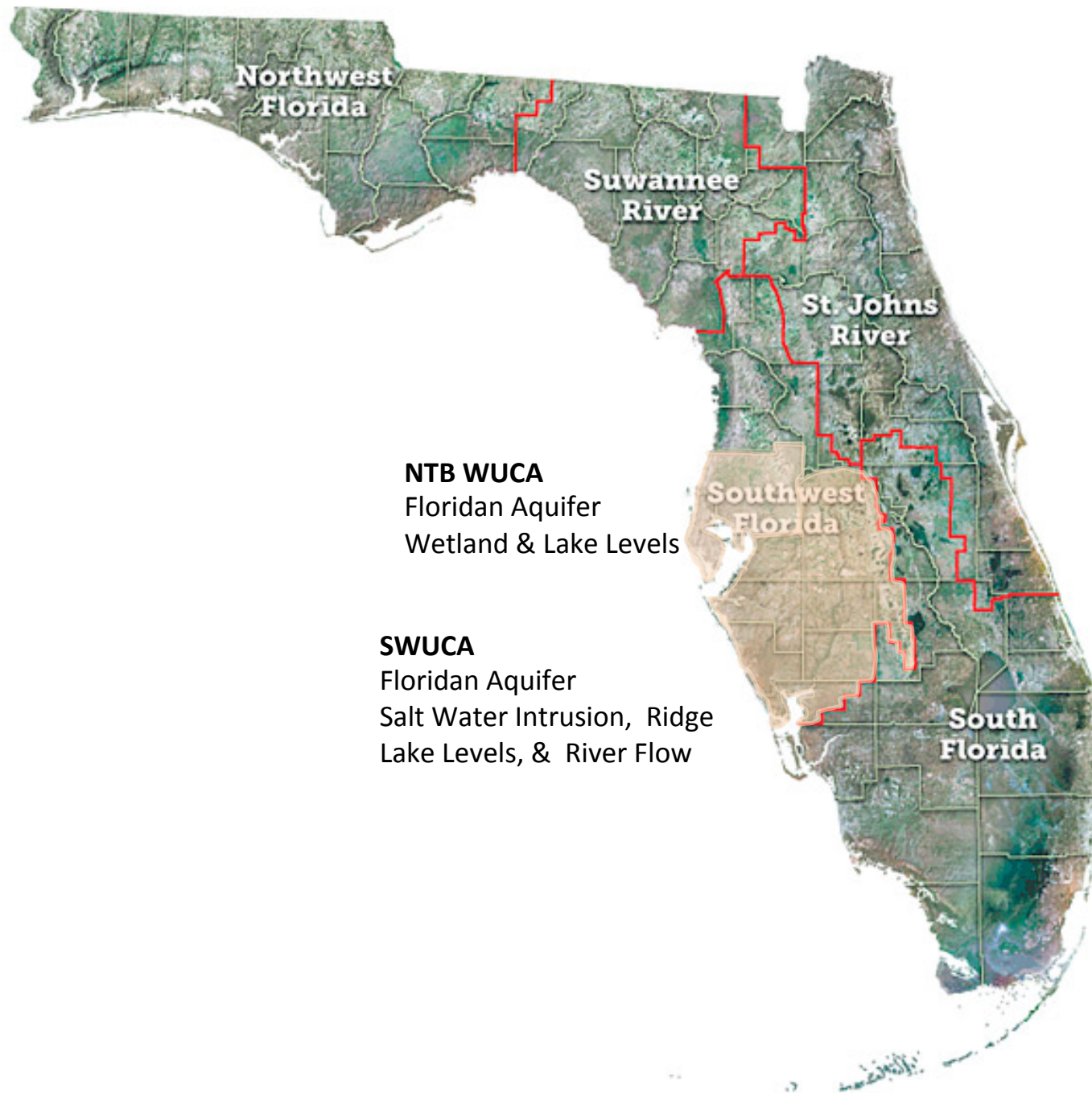
Yup
1,300 MGD
Right Here!







NTB WUCA
Floridan Aquifer
Wetland & Lake Levels





NTB WUCA

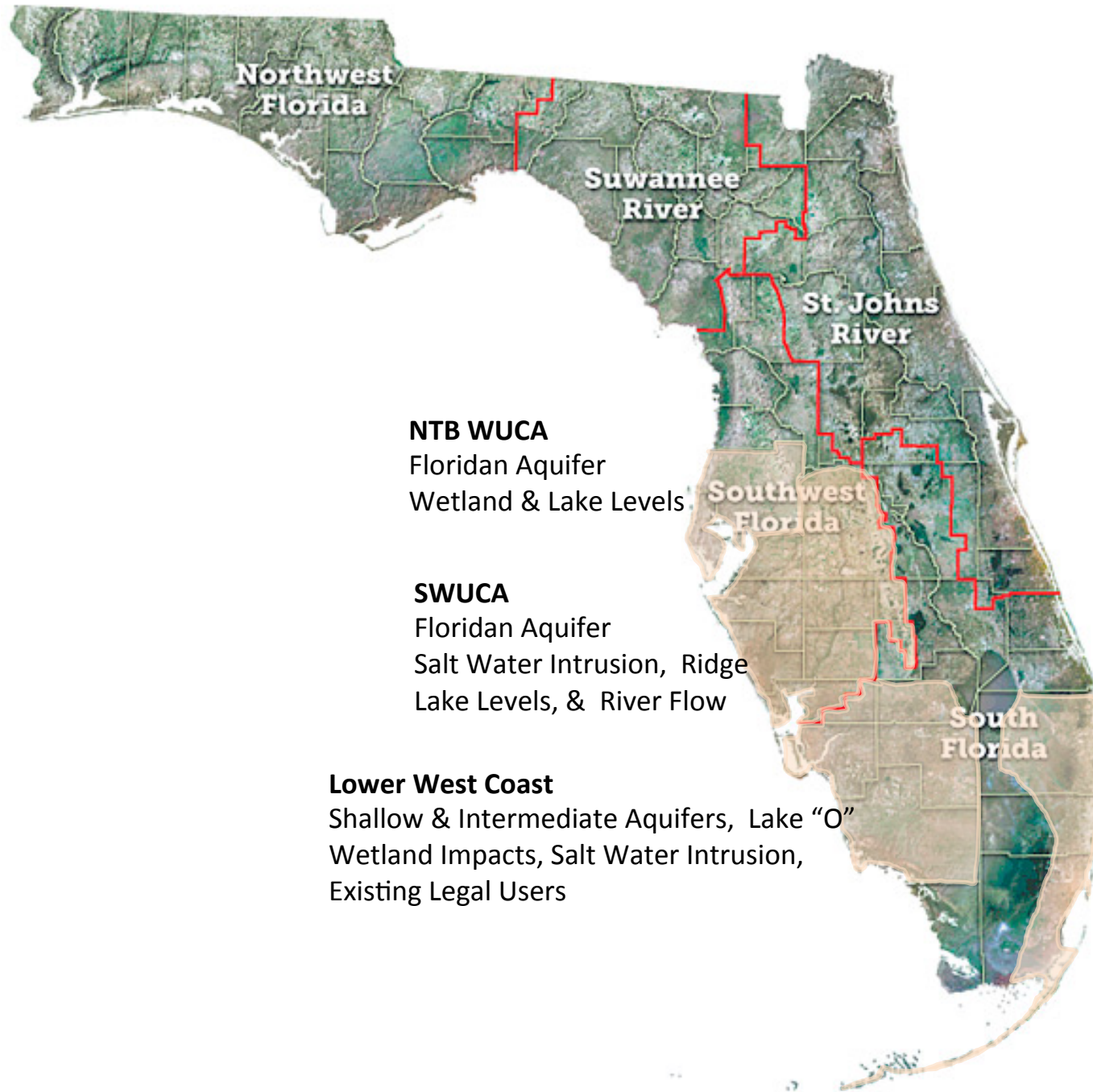
Floridan Aquifer
Wetland & Lake Levels

SWUCA

Floridan Aquifer
Salt Water Intrusion, Ridge
Lake Levels, & River Flow

Lower West Coast

Shallow & Intermediate Aquifers, Lake "O"
Wetland Impacts, Salt Water Intrusion,
Existing Legal Users



NTB WUCA

Floridan Aquifer
Wetland & Lake Levels

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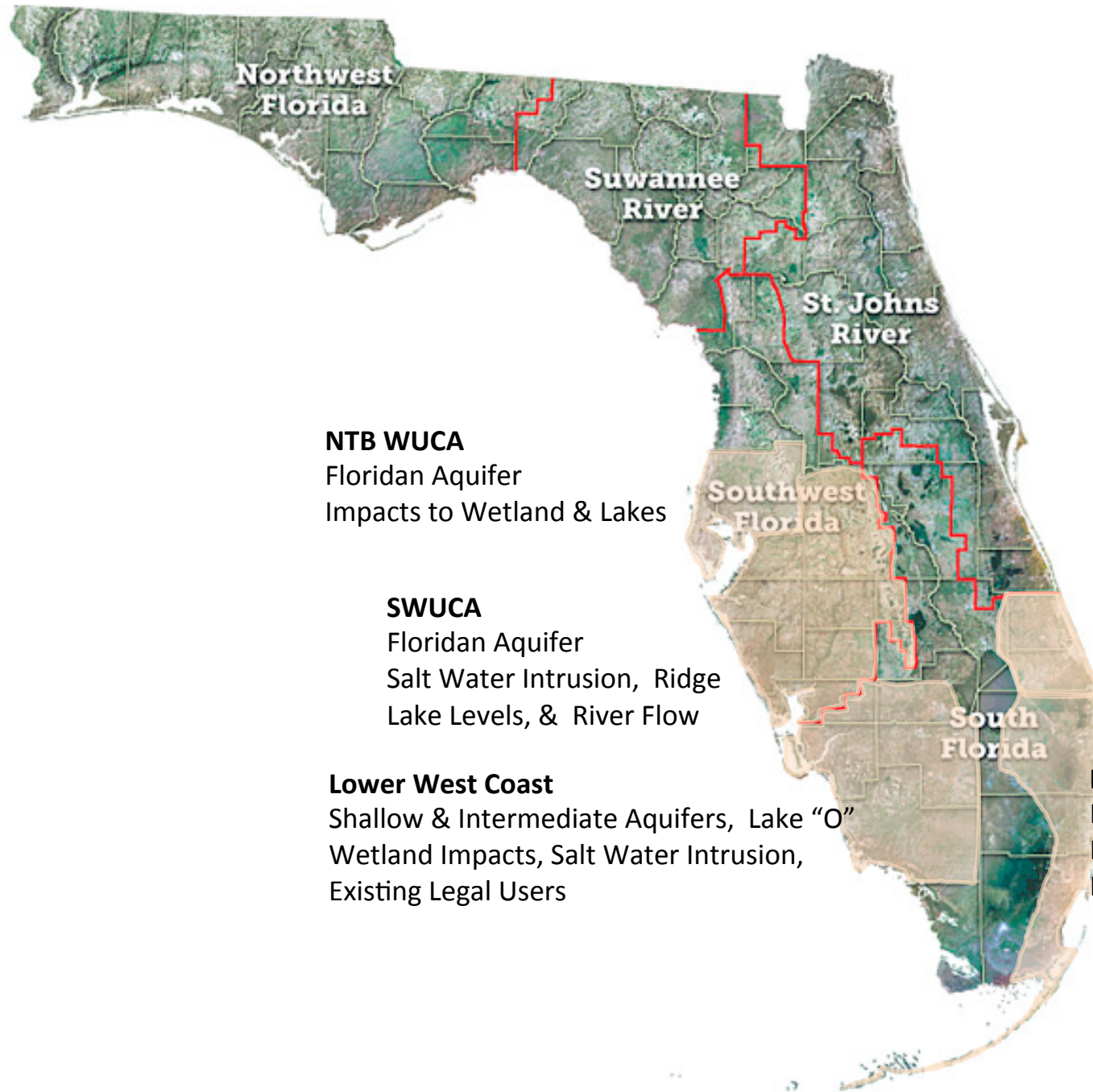
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Lower East Coast

Lake Okeechobee &
Biscayne Aquifer
Impacts to Everglades



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Floridan Aquifer
Impacts to Wetland & Lakes

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Lower West Coast

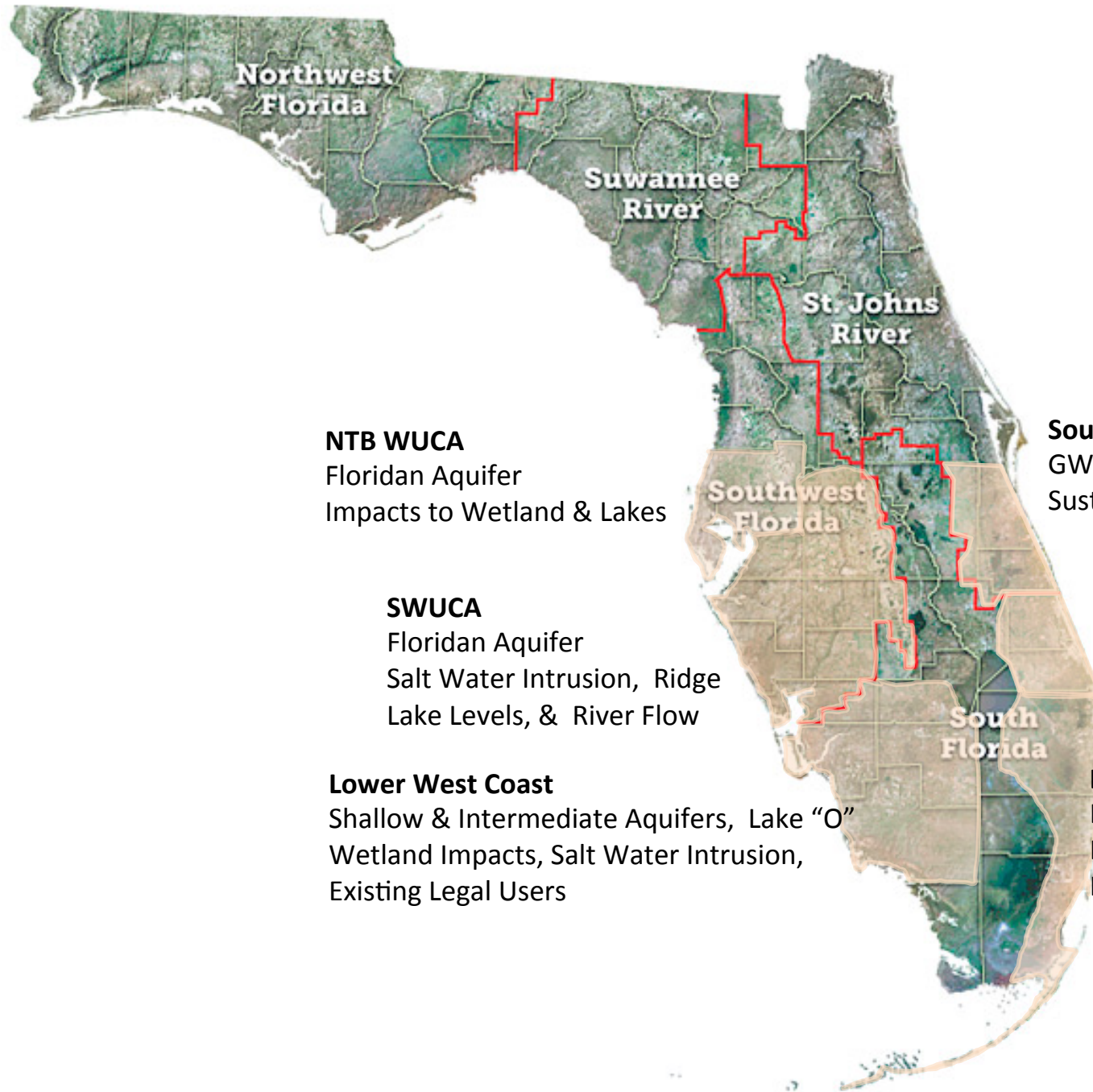
Shallow & Intermediate Aquifers, Lake "O"
Wetland Impacts, Salt Water Intrusion,
Existing Legal Users

Upper East Coast

Lake Okeechobee &
Surficial Aquifer
Wetlands, Saltwater
Intrusion

Lower East Coast

Lake Okeechobee &
Biscayne Aquifer
Impacts to Everglades



Northwest
Florida

Suwannee
River

St. Johns
River

Southwest
Florida

South
Florida

NTB WUCA

Floridan Aquifer
Impacts to Wetland & Lakes

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South SJRWMD

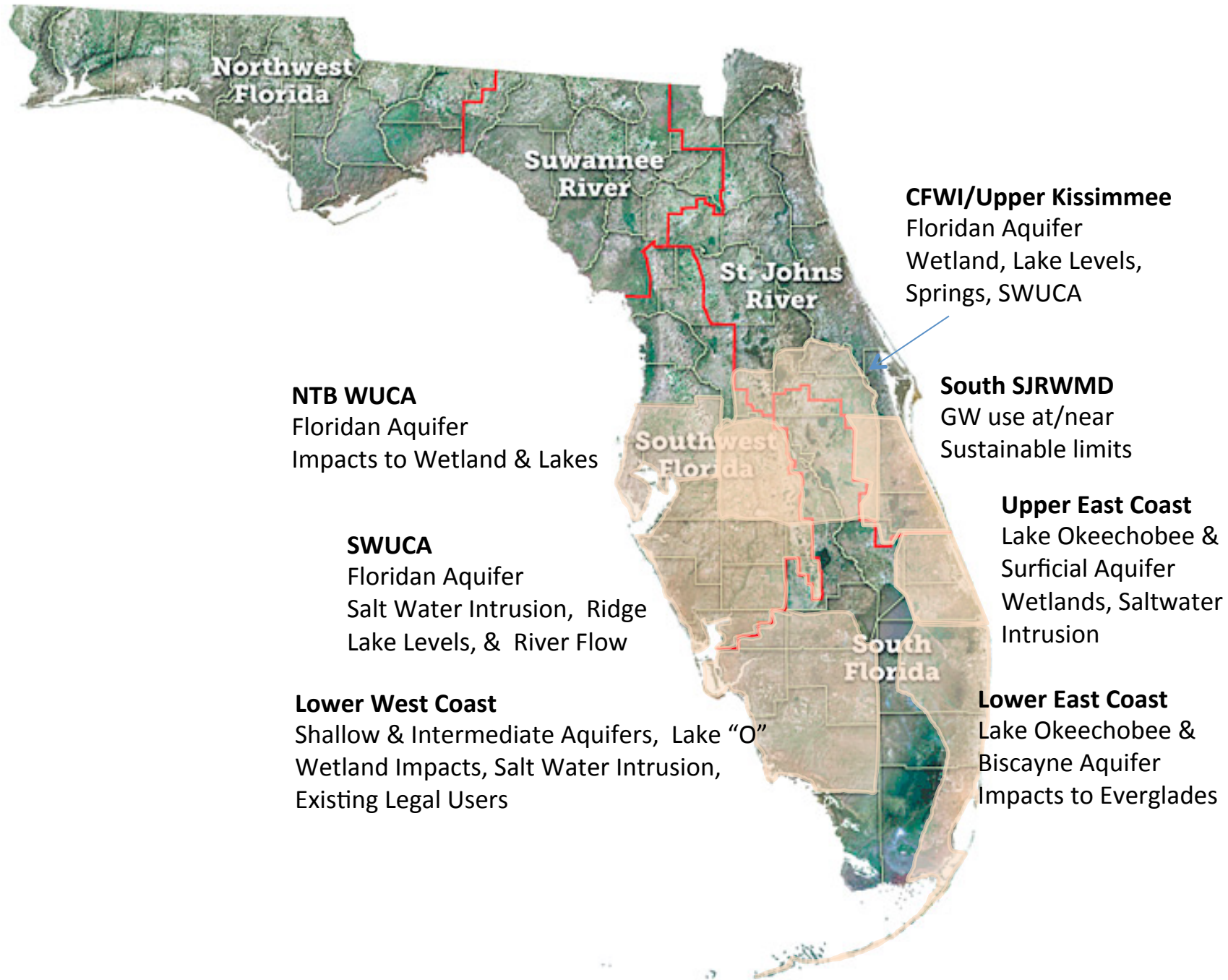
GW use at/near
Sustainable limits

Upper East Coast

Lake Okeechobee &
Surficial Aquifer
Wetlands, Saltwater
Intrusion

Lower East Coast

Lake Okeechobee &
Biscayne Aquifer
Impacts to Everglades



What's NOT an Alternative Supply



Alternative Supplies

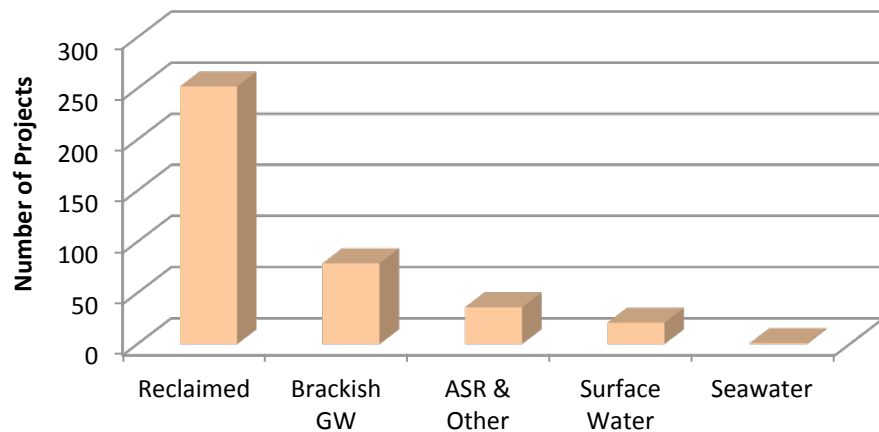
- Salt water
- Brackish surface & groundwater
- Wet weather flows
- Sources available through addition of storage
- Reclaimed
- Augmentation from reclaimed or storm water
- Other “Nontraditional”

Push for Alternative Water Supplies

- 1990s: WMDs co-funding focus on AWS
- 2003: F.S. recognition of need for AWS
- 2004: 20-Year WUP/CUP for AWS
- 2005: Established Water Protection & Sustainability Trust Fund (WPSTF)
- 2005-2008: \$217M from State for WPSTF
- 2009-2014: No State Funding Available

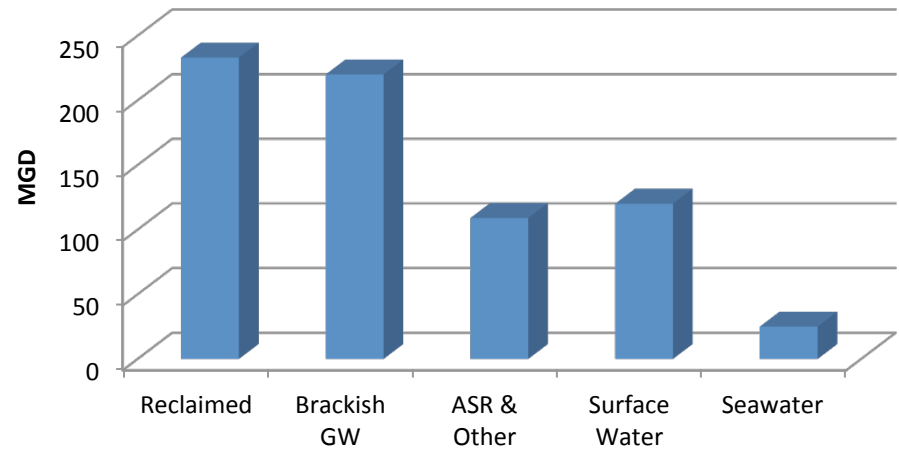
WPSTF Funded Projects

AWS Projects



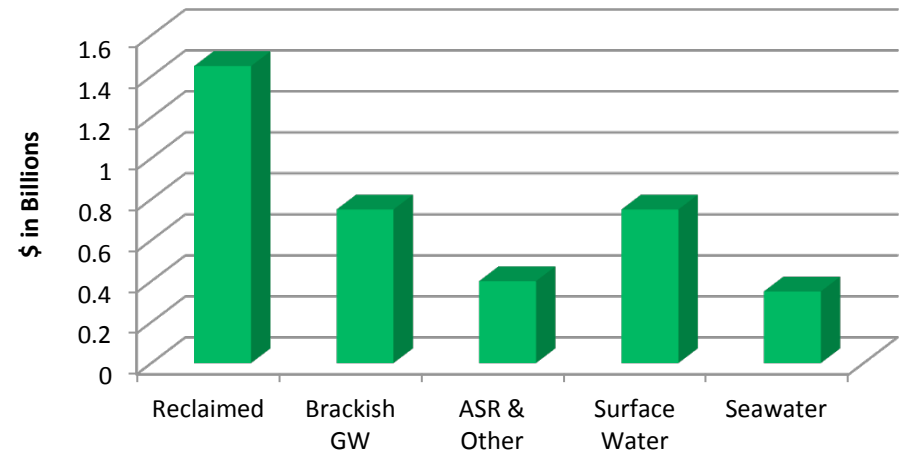
389 Projects

Quantity Made Available



707 MGD

Project Costs (\$ billions)



\$3.4 Billion

No
Conventional
Supply For
You!



AWS – The Only Game in Town