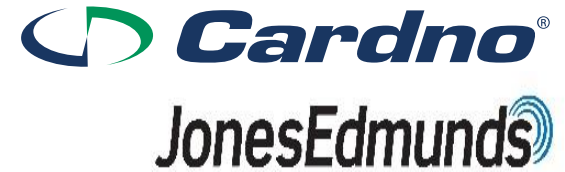




WITHLACOOCHEE
REGIONAL
WATER
SUPPLY
AUTHORITY



Withlacoochee Regional Water Supply Authority Regional Water Supply Plan Update

Status Report 1

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Agenda

01 Water Supply Plan Overview

02 Population and Water Demand Projections

03 2040 Water Supply Deficits for Utilities

04 Estimating Future Water Savings from Conservation Activities

01 Water Supply Plan Overview

Water Supply Plan Overview

> Key elements of the Water Supply Plan

- Population and water demand projections for all use categories through 2040.
- Assessment of the potential for water conservation and reclaimed Water to reduce public supply demand.
- Evaluation of the availability of groundwater and alternative sources to meet projected demands.
- Identification of water supply project options to meet the future public water supply needs
 - Engineering feasibility study
 - » Infrastructure
 - » Permitting
 - » Cost
- Proposed terms of governance, funding sources and mechanisms, cost sharing and participant structure for projects that involve multiple entities.

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Population and Water Demand Projections

Four-County Overview

Population & Demand Projections (Public Supply, Dom. Self Supply) Four-County Overview

County	2015 Population	2040 Population	Population Increase
Citrus	154,717	182,185	27,468
Hernando	182,854	244,274	61,420
Marion (SWFWMD)	112,040	159,115	47,075
Marion (SJRWMD)	216,408	256,286	39,878
Sumter	125,529	258,670	133,141
Total	791,548	1,100,530	308,982

2020 Water Demand (mgd)	2040 Water Demand (mgd)	Demand Increase (mgd)
20.6	23.2	2.6
23.1	28.3	5.2
16.6	21.2	4.6
29.7	33.3	3.6
33.0	47.1	14.1
123.0	153.1	30.1

2040 Water Supply Deficits for Utilities in the WRWSA Four- County Area

Utility Water Supply Deficits vs Surpluses (2040)

Utility Name	2040 Demand (mgd)	Currently Permitted Quantity (mgd)	Planning Period Deficit / Surplus (mgd)
Citrus County			
Citrus County - Sugarmill Woods	2.718	2.362	-0.356
Marion County (SWFWMD)			
Bay Laurel Center Public Water Supply System	3.097	2.555	-0.542
City of Dunnellon	1.156	1.117	-0.039
Marion County (SJRWMD)			
Sunshine Utilities / South Marion Regional System	0.24	0.151	-0.089
Marion County Utilities - Consolidated Permit	7.62	6.440	-1.180
Sumter County			
Lake Panasoffkee Water Assoc Inc	0.585	0.41	-0.175
City Of Bushnell	1.439	1.366	-0.072
City Of Webster	0.282	0.102	-0.179
City Of Wildwood City Mng	9.416	6.444	-2.971
City of Center Hill	0.317	0.170	-0.147
The Villages of Marion and Sumter	24.900	19.345	-5.555

04 Estimating Future Water Savings from Conservation Activities

Alliance for Water Efficiency

Water Conservation Tracking Tool

- To assess the potential for water conservation to reduce public supply demand, we will use the Alliance for Water Efficiency's Water Conservation Tracking Tool.
 - The tool is a model that can evaluate the water savings, costs, and benefits of conservation programs for a water utility.
 - It provides a standardized methodology for water savings and benefit cost accounting and includes a library of pre-defined conservation activities from which users can build conservation programs

Alliance for Water Efficiency

Water Conservation Tracking Tool

- 12 Utilities that make up approximately 90 percent of the water use in the four-county area are being invited to participate in the modeling.

Citrus County

Citrus County Utilities
Inverness

Hernando County

Hernando County Utilities
Brooksville

Marion County (SWFWMD)

Marion County Utilities
Bay Laurel
Dunnellon
Spruce Creek

Marion County (SJRWMD)

Ocala

Sumter County

Bushnell
Wildwood
The Villages

Alliance for Water Efficiency

Water Conservation Tracking Tool

- Cardno will provide the utilities with a list of the required data, then will meet with them at their offices to assist with entry of data into the model.
- Cardno will run the model and compile the outputs into a report.