

# FDEP Alternative Water Supply Grant Program



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Water Supply Bureau  
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# FDEP Alternative Water Supply (AWS) Funding

- Governor DeSantis' Executive Order 19-12
  - Requested recurring funding for AWS development
- In FY2020 and FY2021 State budgets, \$40 million each year approved for water supply development projects
- FDEP administers AWS funding
  - Requests water management districts provide list of projects for State funding consideration each May



# Fiscal Year 2021-2022 AWS Funding Proposed Schedule

**December 1, 2020**

Application period begins

**January 2021**

Conduct two informational webinars

**February 26, 2021**

Application deadline

**March – April 2021**

Staff application review process

**May 2021**

FDEP list for Governing Board approval &  
FDEP submittal by May 31

**August/September 2021**

Governing Board approval of Water  
Protection and Sustainability Program funds



# Project Types

## ➤ Alternative Water Supply

- Increase water supplies through development of non-traditional water sources and/or storage
- Includes saltwater, brackish water, reclaimed or recycled water, surface/storm water captured during heavy rainfalls, new storage capacity, any other source designated as non-traditional in a regional water supply plan



## ➤ Water Conservation

- Projects that use hardware and/or technology to increase water use efficiency
- Includes high-efficiency indoor plumbing retrofits and/or rebates, automatic line and/or hydrant flushing devices, pre-rinse spray valves, and irrigation retrofits, including soil moisture sensors, rain sensors, and irrigation head upgrades



# Program Historic State and District Funding

## Alternative Water Supply

Years	Projects	Capacity (mgd)	Construction Costs	Funding
FY97 – FY20	515	515.36	\$1.42 B	\$213.9 M

## Water Conservation

Years	Projects	Estimated Water Savings (mgd)	Total Project Costs	Funding
FY03 – FY20	227	11.13	\$18.6 M	\$7.5 M

mgd = million gallons per day

# FDEP Grant Programs

## ➤ FDEP AWS Program

- Statewide alternative water supply or water conservation
- FDEP allocates legislative appropriations for specific projects
- Up to 50% of eligible project costs

## ➤ Water Protection and Sustainability Program (Section 373.707, F.S.)

- Statutory split
  - District receives 30% of allocated funds
- Up to 40% of eligible project costs

# FDEP Funding Considerations

## ➤ Project funding considerations

- Alternative water supply or water conservation
- Provides regional benefits
- Benefits MFL water bodies
- Dual benefits to water supply and water quality
- Benefits environment, resource, and community
- Readiness to proceed (“shovel-ready” and partner funding available)
- Capital costs per 1,000 gallons and return on investment

# Additional District Considerations

## ➤ Alternative Water Supply

- Supports goals & objectives of regional water supply plan
- Reduces dependence on traditional sources
- Supports ocean outfall legislation
- Contributes to AWS development in resource-limited area



## ➤ Water Conservation

- Water source being conserved
- Quantity of water saved
- Cost effectiveness
- Quality and detail of project proposal
- Environmental/community benefits
- Past performance





# Governing Board Priorities

## ➤ Current considerations:

- Must be within the District boundaries or provide benefits to the District
- Must be an AWS or water conservation project
- Construction/implementation only
- Supports mission of the District and/or approved plan
- Prioritize regional projects based on resource areas

## ➤ New consideration:

- Year-round irrigation ordinance status



# Year-round Irrigation Rule Ordinance Status Consideration

## ➤ Why?

- Advances the District's mission toward water conservation
- Supports the District's Year-round Rule initiative
- Consistency among local governments
- Promote water conservation ethic
- Fosters adoption of consistent year-round irrigation rules
- Similar to other water management districts

1 SOUTH FLORIDA WATER MANAGEMENT DISTRICT'S MODEL WATER  
2 CONSERVATION ORDINANCE FOR LANDSCAPE IRRIGATION  
3  
4 ORDINANCE NO. \_\_\_\_\_  
5  
6 AN ORDINANCE OF THE [COUNTY/CITY], FLORIDA; PROVIDING  
7 FOR LOCAL IMPLEMENTATION OF THE MANDATORY YEAR-  
8 ROUND LANDSCAPE IRRIGATION CONSERVATION MEASURES  
9 RULE OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT  
10 (40E-24, F.A.C.); PROVIDING DEFINITIONS; PROVIDING FOR THE  
11 APPLICABILITY OF THE ORDINANCE; PROVIDING THE  
12 LANDSCAPE IRRIGATION SCHEDULE; PROVIDING EXCEPTIONS  
13 TO THE LANDSCAPE IRRIGATION SCHEDULE; PROVIDING FOR A  
14 REQUIREMENT TO OPERATE TECHNOLOGY THAT INHIBITS OR  
15 INTERRUPTS AN IRRIGATION SYSTEM DURING PERIODS OF  
16 SUFFICIENT MOISTURE; PROVIDING FOR VARIANCES FROM THE  
17 SPECIFIC DAY OF THE WEEK LIMITATIONS; PROVIDING FOR  
18 ENFORCEMENT OF THE ORDINANCE; PROVIDING FOR  
19 PENALTIES FOR VIOLATION OF THE ORDINANCE; PROVIDING  
20 FOR CODIFICATION OF THE ORDINANCE; PROVIDING FOR THE  
21 REPEAL OF ALL CONFLICTING ORDINANCES; PROVIDING FOR  
22 SEVERABILITY; AND PROVIDING AN EFFECTIVE DATE.  
23  
24 WHEREAS, the South Florida Water Management District (District) has the  
25 responsibility and exclusive authority under Chapter 373, Florida Statutes (F.S.), for  
26 regulating the consumptive use of water; and  
27  
28 WHEREAS, the District has promulgated Chapter 40E-2, Florida Administrative  
29 Code (F.A.C.), for the consumptive use of water which includes Rule 40E-2.061, F.A.C.,  
30 General Consumptive Use Permits by Rule, regulating landscape irrigation at a single  
31 family dwelling or duplex, and Rule 40E-2.071, F.A.C., Noticed General and Individual  
32 Permits, regulating larger landscape irrigation users; and  
33  
34 WHEREAS, the District promulgated and amended Chapter 40E-24, F.A.C.,  
35 requiring year-round irrigation conservation measures; and

# Resolution A

A Resolution of the Governing Board of the South Florida Water Management District to direct staff to include the status of year-round irrigation ordinances that comport with the District's Year-round Irrigation Rule for local government applicants in the FY2021-2022 cost-share process and add the same as an eligibility requirement in future years.



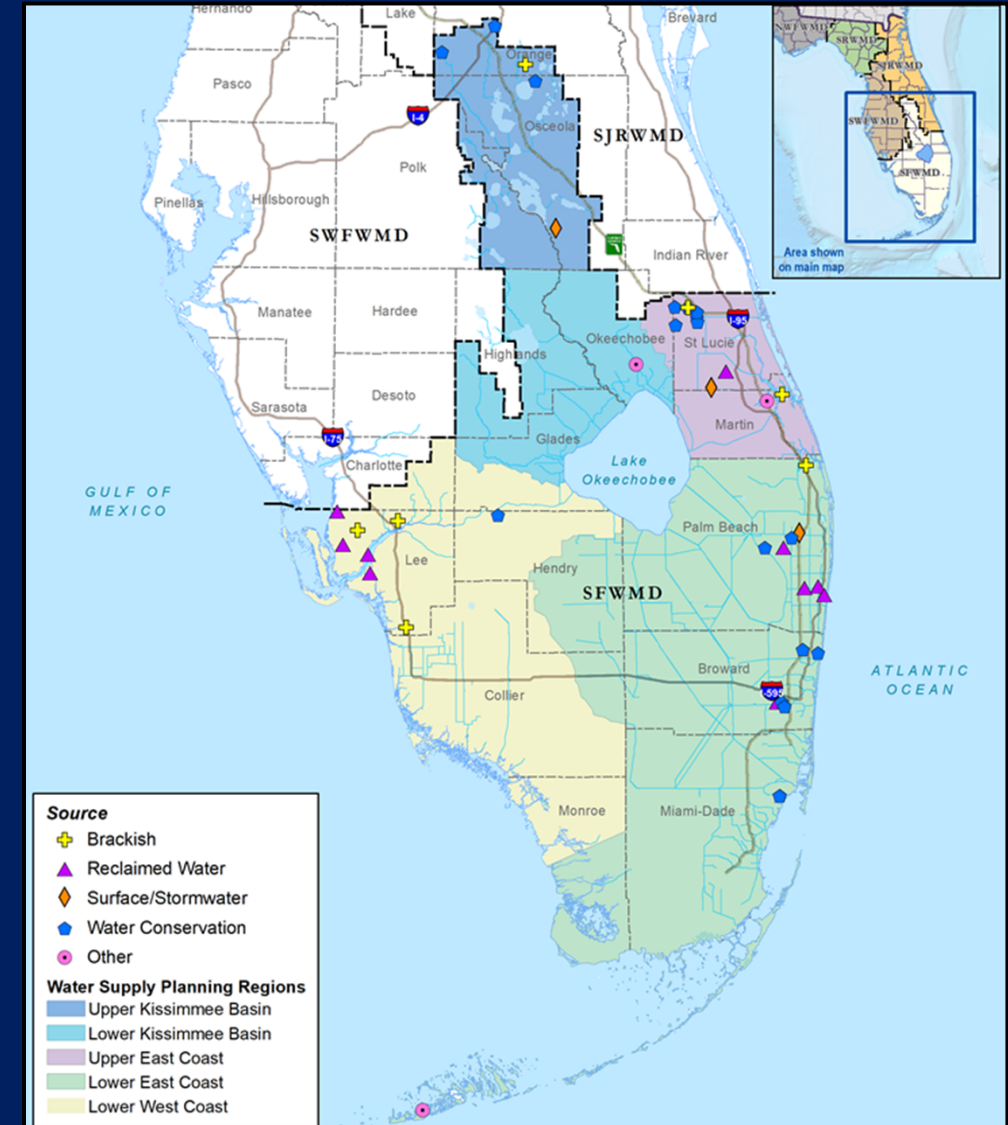
# Fiscal Year 2020-2021 AWS Funding Program Summary





# Fiscal Year 2020-2021 FDEP AWS Funding

- \$40 million statewide funding
- SFWMD application period
  - July 6 to 31
  - 43 applications received
- Project list to FDEP deadline
  - September 1



# Fiscal Year 2020-2021 AWS Funding Summary

Grant Program	Projects	Capacity (mgd)	Construction or Project Costs	Funding
FDEP AWS Program	5	28.07	\$115,514,470	\$5,870,000
Water Protection and Sustainability Program	14	11.28	\$6,013,710	\$1,080,000

mgd = million gallons per day

# Resolution B

A Resolution of the Governing Board of the South Florida Water Management District to authorize entering into agreement(s) with the Florida Department of Environmental Protection for the purpose of implementing the FDEP Alternative Water Supply Grant Program in an approximate amount of \$6,410,000 in dedicated State appropriations (General Revenue and Water Protection and Sustainability Trust Fund) from the 2020 State General Appropriations Act 1622; delegating authority to the Executive Director to execute the agreement(s) with the Florida Department of Environmental Protection for dedicated state appropriations; providing an effective date.

# Exhibit A

Cooperating Entity	Project Name	County	Total Capital Costs	FDEP AWS Program Funding	WPSP State Funding	WPSP District Match
Orlando Utilities Commission	Southeast Water Treatment Plant Lower Floridan Aquifer Wellfield Phase 1	Osceola	\$95,061,000	\$1,700,000		
Davie, Town of	Reclaimed Water Main Extension – Bamford Sports Complex and along University Dr. between SW 36 <sup>th</sup> Street and SW 30 <sup>th</sup> Street	Broward	\$1,615,000	\$610,000		
Boynton Beach, City of	Reclaimed Water Main Extension Phase I	Palm Beach	\$10,000,000	\$600,000		
Delray Beach, City of	Reclaimed Water Main Extension – Area 10 Phase 2	Palm Beach	\$1,850,470	\$660,000		
Lee County Utilities	Fiesta Village Reclaimed Water Main Extension	Lee	\$6,986,000	\$2,300,000		
<b>Total for Resolution C State Appropriation Funding</b>			<b>\$115,512,470</b>	<b>\$5,870,000</b>		
Palm Beach Soil and Water Conservation District	Nursery Overhead Efficiency Project 3	Palm Beach	\$60,210		\$12,000	\$12,000

WPSP = Water Protection and Sustainability Program



# Exhibit A (continued)

Cooperating Entity	Project Name	County	Total Capital Costs	FDEP AWS Program Funding	WPSP State Funding	WPSP District Match
Bernard Egan & Company	River Basket Citrus Grove Ag Irrigation Retrofit (225 acres)	St. Lucie	\$128,784		\$25,000	\$25,000
Palm Beach County School District	Irrigation Controller Retrofit at 32 Facilities	Palm Beach	\$338,281		\$50,000	\$50,000
Bernard A Egan Groves, Inc.	Cow Creek Citrus Grove Ag Irrigation Retrofit (1,200 acres)	St. Lucie	\$299,759		\$50,000	\$50,000
Cracker Trail Grove LLC	Cracker Trail Citrus Grove Ag Irrigation Retrofit (600 acres)	St. Lucie	\$486,433		\$50,000	\$50,000
Graves Brothers Company	Ashland Citrus Grove Ag Irrigation Retrofit – Site 10, 11, 12 (203.5 acres)	St. Lucie	\$135,570		\$25,000	\$25,000
Miami-Dade Water & Sewer Department	Residential High Efficiency Toilet Rebate Project FY2021-2022	Miami-Dade	\$76,712		\$15,000	\$15,000
Orange County Utilities	Waterwise Neighbor Program – Indoor and Outdoor Retrofits	Orange	\$84,850		\$16,500	\$16,500
Broward County Water and Wastewater Services	High Efficiency Toilet Replacement Program	Broward	\$60,000		\$12,000	\$12,000

WPSP = Water Protection and Sustainability Program

# Exhibit A (continued)

Cooperating Entity	Project Name	County	Total Capital Costs	FDEP AWS Program Funding	WPSP State Funding	WPSP District Match
Miami-Dade Water & Sewer Department	Residential High Efficiency Showerhead and Faucet Rebate Project FY2021-2022	Miami-Dade	\$91,480		\$18,000	\$18,000
Miami-Dade Water & Sewer Department	Landscape Irrigation Rebate Project FY2021-2022	Miami-Dade	\$68,630		\$13,500	\$13,500
Mack Farms	Mack Farms Hydrocyclone Recycled Water System	Osceola	\$460,000		\$92,000	\$92,000
Orlando Utilities Commission	West Chilled Water Plant – Acid Feed System Retrofit	Osceola	\$65,000		\$13,000	\$13,000
Port St. Lucie <sup>1</sup>	Tradition and Western Grove Communities Reclaimed Water Main Extension	St. Lucie	\$3,658,000		\$148,000	\$148,000
<b>Total for Resolution D WPSP Funding</b>					<b>\$540,000</b>	<b>\$540,000</b>
<i>If a cooperating entity above withdraws, cancels, or rejects the WPSP funding, funding will be reallocated.</i>						
Cape Coral, City of	SW Pine Island Road Reclaimed Water Storage Tanks and High Service Pump Station	Lee	\$14,572,394		\$1,150,000	\$1,150,000

WPSP = Water Protection and Sustainability Program

<sup>1</sup> City of Port St. Lucie is eligible for \$1.2 million; however, only \$296,000 is available.

# Exhibit A (continued)

Cooperating Entity	Project Name	County	Total Capital Costs	FDEP AWS Program Funding	WPSP State Funding	WPSP District Match
Bonita Springs Utilities, Inc.	Reverse Osmosis Water Treatment Plant and Wellfield Expansion Phase 3	Lee	\$20,900,000		\$650,000	\$650,000
Stuart, City of	Floridan Aquifer System Well FA-1 Wellhead and Raw Water Main	Martin	\$33,632,000		\$180,000	\$180,000
Cape Coral, City of	North RO Water Treatment Plant, Wellfield Expansion Phase 1	Lee	\$9,375,000		\$150,000	\$150,000
Martin County Utilities	Tropical Farms RO Expansion Phase II – Raw Water Main	Martin	\$1,453,782		\$137,500	\$137,500
Lee County Utilities	North Lee County Water Treatment Plant and Wellfield Expansion Phase 3A	Lee	\$62,647,680		\$650,000	\$650,000
Graves Brothers Company	Ashland Citrus Grove Ag Irrigation Retrofit – Site 14 (123.2 acres)	St. Lucie	\$209,895		\$41,500	\$41,500
Graves Brothers Company	Ashland Citrus Grove Ag Irrigation Retrofit – Site 9 (43.5 acres)	St. Lucie	\$98,115		\$19,500	\$19,500
Port St. Lucie, City of	McCarty Ranch Reservoir and Water Treatment Plant Area 5	St. Lucie	\$648,967		\$129,500	\$129,500

WPSP = Water Protection and Sustainability Program

# Exhibit A (continued)

Cooperating Entity	Project Name	County	Total Capital Costs	FDEP AWS Program Funding	WPSP State Funding	WPSP District Match
Davie, Town of	Water Conservation Software Technology Project	Broward	\$62,000		\$12,000	\$12,000
Miami-Dade Water & Sewer Department	Smart Water Shutoff Device Project FY2021-2022	Miami-Dade	\$50,000		\$10,000	\$10,000
14 <sup>th</sup> Street Townhomes Association, Inc.	High Efficiency Irrigation System	Broward	\$31,126		\$6,000	\$6,000
<b>Subtotal of Additional Projects Eligible for Resolution D WPSP Funding</b>					<b>\$3,136,000</b>	<b>\$3,136,000</b>
Cape Coral, City of	Reclaimed Water Expansion: Cape Coral and Fort Myers Interconnect under the Caloosahatchee River	Lee	\$28,750,000			
Palm Beach County Utilities	Green Cay Wetlands Phase 2 Reclaimed Water and Aquifer Recharge	Palm Beach	\$39,997,000			
HiPoint Agro Bedding Florida LLC	HiPoint PBC Facility for Water Quality and Irrigation Recycled Water Project	Palm Beach	\$10,000,000			
Wellington, Village of	Peaceful Waters Sanctuary Wetland Improvements	Palm Beach	\$536,000			

WPSP = Water Protection and Sustainability Program



# Exhibit A (continued)

Cooperating Entity	Project Name	County	Total Capital Costs	FDEP AWS Program Funding	WPSP State Funding	WPSP District Match
Jupiter, Town of	Construction of Floridan Aquifer System wells RO 15 and 16	Palm Beach	\$7,983,000			
Punta Gorda Isles Section 22 HOA	Burnt Store Marina Reclaimed Water Main	Lee	\$288,600			
Florida Keys Aqueduct Authority	Big Coppit Wastewater Treatment Plant Upgrades	Monroe	\$1,433,189			
LakeO.ai	Neural Network for Water Quality Changes	Martin	\$226,000			
Tech2Plant	Marando Ranch and Farm Irrigation Project	Broward	\$140,000			
AdEdge Water Technologies/Lanxess	Water Quality Pilot Project for a Stormwater Treatment Area	Okeechobee	\$417,000			
Port LaBelle Utility System	Water Conservation Project – Replacement of HDPE Piping	Hendry	\$267,648			
Greyter Water Systems	Lennar Homes – Sustainable Water Solution	Osceola	\$107,000			
<b>Total of Projects Not Eligible for State Appropriation or WPSP Funding</b>			<b>\$90,145,437</b>			

WPSP = Water Protection and Sustainability Program

# Resolution C

A Resolution of the Governing Board of the South Florida Water Management District to authorize entering into agreement(s) with cooperating entities for alternative water supply and water conservation projects in an approximate amount of \$5,870,000 in dedicated State appropriations from the 2020 State General Appropriations Act 1622 and delegating authority to the Executive Director to execute the agreement(s) for identified projects listed in Exhibit A eligible for grant funding; providing an effective date.

# Resolution D

A Resolution of the Governing Board of the South Florida Water Management District to authorize entering into agreement(s) with cooperating entities for alternative water supply and water conservation projects in an amount not to exceed \$1,080,000, for which \$540,000 in District Fiscal Year 2020-2021 ad valorem funds and \$540,000 in dedicated Fiscal Year 2020-2021 State appropriations (Water Protection and Sustainability Program) are budgeted; delegating authority to the Executive Director to execute the agreement(s) for identified projects listed in Exhibit A; providing an effective date.

# Thank you

