

Rare Plant Conservation Projects funded for 2017-18

(taken from annually submitted
*APPLICATION FOR FEDERAL ASSISTANCE-
WORK PLAN 2017-2018*,
submitted to United States Fish and Wildlife
Service from Florida Department of Agriculture
and Consumer Services, Florida Forest Service)

FLORIDA STATEWIDE ENDANGERED AND THREATENED PLANT CONSERVATION PROGRAM

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**FLORIDA STATEWIDE ENDANGERED AND THREATENED PLANT
CONSERVATION PROGRAM, ANNUAL WORK PLAN
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APPLICATION FOR FEDERAL ASSISTANCE
WORK PLAN 2017-18
OCTOBER 1, 2017 THROUGH DECEMBER 31, 2018

Florida Plant Conservation Program Administration, Management, and Research (Florida Forest Service - “State” Match as per AFA form 424). The objectives of this project are: to administer the Florida Plant Conservation Program through the timely completion and submission of both federal and state documents; administer plant conservation projects conducted by various organizations and provide access to reporting in an online database and list of report titles; test, populate, and conduct analyses using the database of funded projects related to plant recovery in Florida; and, conduct *in situ* monitoring of known rare plant populations and restoration of their habitat, if needed.

Federal	\$ 65,356
State Match	21,786
Total	\$ 87,142

Lake Wales Ridge Scrub Plant Monitoring and Management Plan Development (Florida Forest Service - “State” Match as per AFA form 424). The objectives of this project are to: continue Level 1, 2, and 3 monitoring programs for occurrences of federally listed scrub plants on public lands in perpetuity (after Menges and Gordon 1996). Determine population trends, survival, growth, fecundity, and recruitment for selected species using Level 2 and 3 monitoring; plan and implement habitat management in locations where these species occur or where there is potential of occurrence; evaluate and research the effects of management activities on selected federally listed plant populations on at least three sites; replace current LWRSF vehicle with a four-wheel drive, V-6, ½ ton truck with a short bed and a crew cab. This price includes FDACS tag, communications radio, ball hitch/wiring for trailer, and toolbox (priced at a state rate).

Federal	\$ 90,413
State Match	30,138
Total	\$ 120,551

APPLICATION FOR FEDERAL ASSISTANCE,
WORK PLAN 2017-18
OCTOBER 1, 2017 THROUGH DECEMBER 31, 2018 (cont.)

Conservation Research of the Recovery of Florida Ziziphus (*Ziziphus celata*) (Archbold Biological Station - “Other” Match as per AFA form 424). The objectives of this project are: conduct demographic monitoring and analysis of most wild, translocated and captive Florida ziziphus populations; characterize microhabitat on living Florida ziziphus individuals in a subset of wild and translocated populations.; carry out adaptive management as needed in wild and translocated Florida ziziphus populations; collaborate with molecular geneticists to document genetic diversity among wild, multi-clonal populations and assess parentage of future translocated material; assist in cultivating propagules of underrepresented genotypes through tissue culture and seed for future Florida ziziphus translocations; accomplish one Florida ziziphus translocation between 2015 and 2018; and, coordinate searches for undiscovered populations of Florida ziziphus;

Federal	\$ 20,000
Other Match	6,667
Total	\$ 26,700

Phase VI *Warea amplexifolia* conservation efforts: population augmentation and research into pollinator dynamics, spatial seedling recruitment patterns, population genetics, and factors influencing *in situ* seed germination (Bok Tower Gardens - “Other” Match as per AFA form 424). The objectives of this project are: perform greenhouse experiments on *in situ* germination; introduce/augment at least one new population of *Warea amplexifolia* and Sandhill restoration efforts within at least one population; population monitoring: perform annual demographic monitoring of introduced populations; demographic analysis; update status of natural populations and preserve germplasm as landowner permission allows; collect Year 5 data on spatial seedling recruitment patterns, and correlate with microhabitat; initiate mating system study; and, full genetic analysis of populations using optimum microsatellite loci developed in Phase IV for this species, and DNA samples collected and extracted in Phase V.

Federal	\$ 12,000
Other Match	12,000
Total	\$ 24,000

Seminole Wayside and Addition Lands – Pine Rockland Restoration (Miami-Dade County Parks, Recreation & Open Spaces, Natural Areas Management - “Local” Match as per AFA form 424). The objectives of this project are: to continue to develop and implement a management plan; inventory and monitor species and ecosystem health within park; and, restore and enhance habitats towards historic conditions and introduce new federally listed species.

Federal	\$ 15,135
Local Match	5,045
Total	\$ 20,180

APPLICATION FOR FEDERAL ASSISTANCE,
WORK PLAN 2017-18
OCTOBER 1, 2017 THROUGH DECEMBER 31, 2018 (cont.)

FLORIDA STATEWIDE ENDANGERED AND THREATENED PLANT CONSERVATION PROGRAM, ANNUAL WORK PLAN TABLE OF PROPOSED 2017-2018 (SEGMENT E-9-26) PROJECTS, OCTOBER 1, 2017 THROUGH DECEMBER 31, 2018 FEDERAL (75% or less), MATCH (25+%), AND TOTAL COST AMOUNTS					
Proposed Projects, Organization	Federal Match	State Match	Local Match	Other Match	Total
Florida Plant Conservation Program Administration, Management and Research, Florida Forest Service.	\$65,356	\$21,786	\$0	\$0	\$87,142
Lake Wales Ridge Scrub Plant Monitoring and Management Plan Development, Florida Forest Service	\$90,413	\$30,138	\$0	\$0	\$120,551
Conservation Research of the Recovery of Florida Ziziphus (<i>Ziziphus celata</i>), Archbold Biological Station	\$20,000	\$0	\$0	\$6,667	\$26,667
Phase VI <i>Warea amplexifolia</i> conservation efforts: population augmentation and research into pollinator dynamics, spatial seedling recruitment patterns, population genetics, and factors influencing in situ seed germination, Bok Tower Gardens	\$12,000	\$0	\$0	\$12,000	\$24,000
Seminole Wayside and Addition Lands – Pine Rockland Restoration, Miami-Dade County Parks, Recreation & Open Spaces, Natural Areas Management.	\$15,135	\$0	\$5,045	\$0	\$20,180
Total Federal, State, Local, and Other Match, Total Funding 2017-18	\$202,904	\$51,924	\$5,045	\$18,667	\$278,540
Total Federal Match, Non-federal Match, Total Funding 2017-18	\$202,904	\$75,636			\$278,540