

Program Name: Invasive Species Population Management
Project Name: **Development of eDNA for Nile Monitor detection and removal**
Project ID: 2607
Lead Agency: USDA APHIS National Wildlife Research Center

Strategy and Biennial Report Objective Addressed: 2-B.2 and 2B.3

Invasive Species Strategic Action Framework Goal: 2 and 3

Measurable Output(s): (1) Development and publication of methodology to identify Nile monitor eDNA in water samples; (2) Collection and analyses of water samples from south Florida canals to detect presence of Nile monitors.

Project Synopsis: Determining the extent of the range of this invasive reptile currently depends on direct sightings of animals in the field. Assaying water from south Florida canals for presence of DNA will expand detection probabilities and will increase chances of locating incipient populations before they are fully established. Once the analytical method is developed and verified, the method will be implemented in canals and other waterways of south Florida, within the current known range as well as beyond it, to supplement information obtained from visual surveys.

Current Status: Method development is underway.
The development of an eDNA methodology for detecting Nile monitors in south Florida waterways is proceeding. A field-testable method is anticipated in FY2017.

Project Schedule:

Start Date: 2014, method development and verification.

Finish Date: ongoing, field applications 2015

Detailed Project Budget Information

	2014	2015	2016	2017	2018	Balance to Complete	Total
Federal	\$12,000	\$15,000	\$16,000	\$18,000	\$15,000	\$64,000	\$76,000
SFWMD**							
Local							
Total	\$12,000	\$15,000	\$16,000	\$18,000	\$15,000	\$64,000	\$76,000

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