



### Addressing Institutional Challenges to Implementing a Contract Based PES Program: A Collaborative Approach to Program Design



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### Northern Everglades -- Payment for Environmental Services Program

- Key Design Elements
  - Site specific issues
  - Buyer Government/User Hybrid
  - Use-Modifying => Contract not easement
  - Developed country => Regulatory issues
  - Program developed thru a collaborative stakeholder process driven by WWF





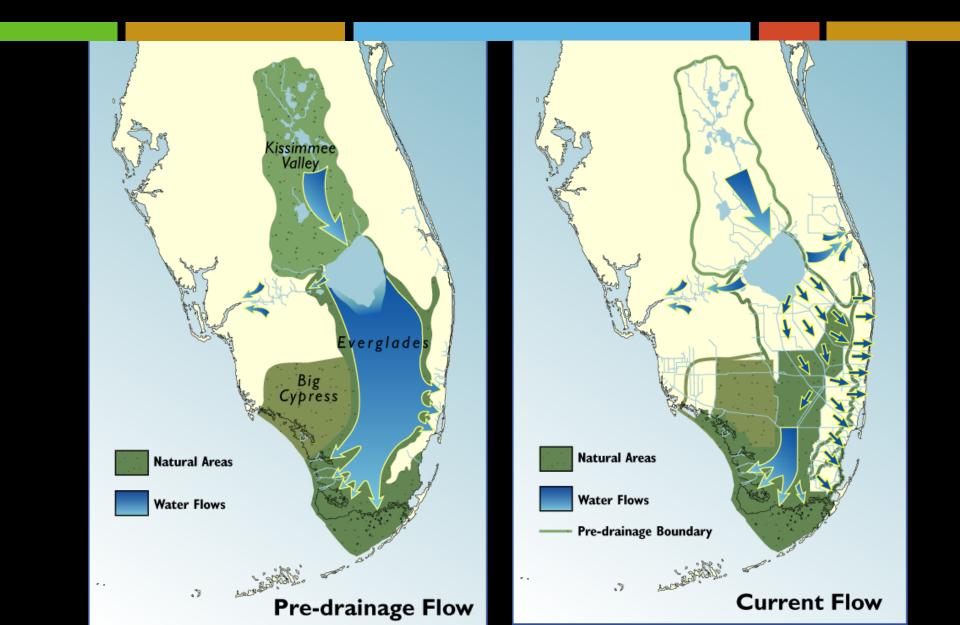
### Water Management

### Citrus

Sod



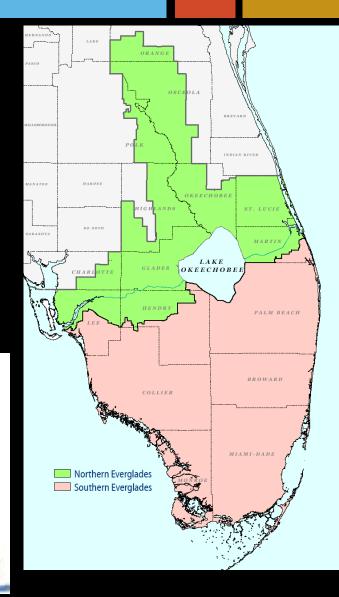
The Northern Everglades & Estuaries are plagued with water quality & quantity problems, land conversion, & habitat loss



### The Buyer – South Florida Water Management District (SFWMD)

Agency of state of FL responsible for:
Flood control
Water supply & quality
Everglades Restoration
Taxing & regulatory authority





# The Sellers – Ranchers in the Northern Everglades

Pumps



Culverts & riser boards



Impoundments





Ditch networks

Utilizing and modifying existing ranch water management infrastructure could sell water management services if it can be made economically profitable and fit regulatory constraints.

### 2005 Launched Florida Ranchlands Environmental Services Project (FRESP)



### Goal to design a program to resolve institutional questions:

- What services
- How to provide cost effective documentation
- Contract terms & enforcement
- Links to regulatory programs

 WWF managed stakeholder process, fund raising, pilot projects

# FRESP: Collaboration created the operational PES Program







Participating Florida Ranchers







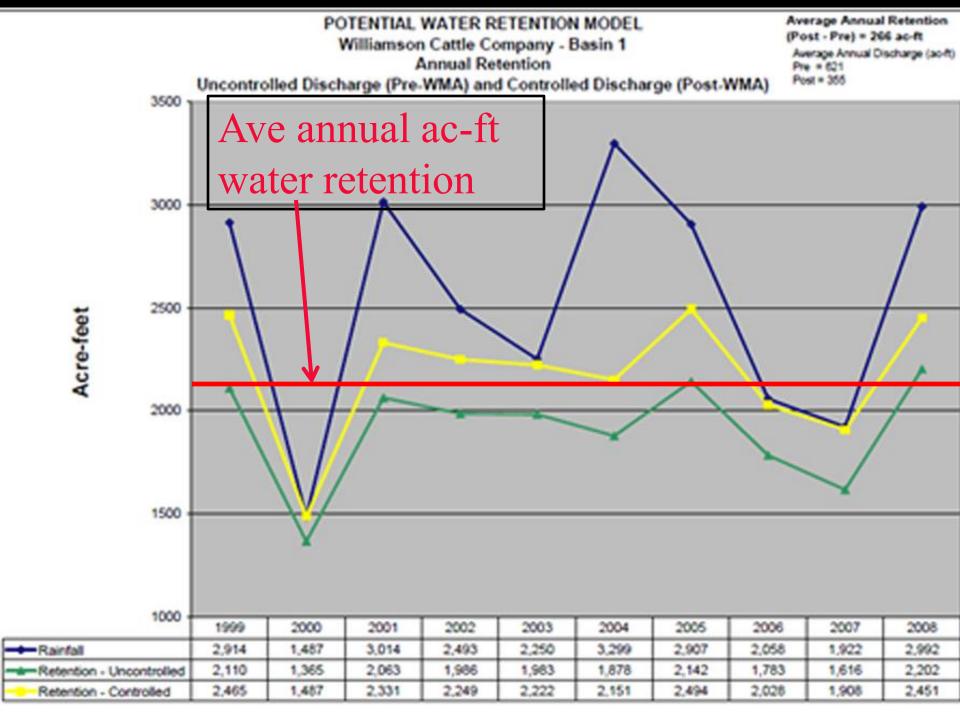


NRCS Natural Resources Conservation Service



### **Market Design Concept for a PES Program**

Extensive working ranch landscapes, relying on modification to existing water management structures and strategies, enter into fixed term contracts to provide documented water related environmental services, above and beyond regulatory requirements creating a new profit center for ranch enterprises.



# Key contract elements

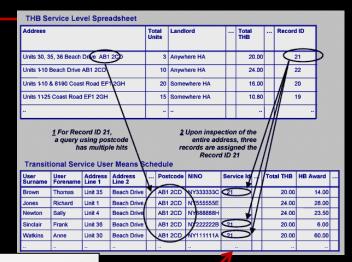
- Gov Agency-Buyer is acquiring a water management option that depends on rainfall.
- Agency-buyer agrees to pay rancher-seller a fixed amount per year for the option to retain water.
- Payment in contract is based on estimated average annual water retention offered by the rancher seller (\$/af retained)
- Contract compliance related to rainfall
- Regulatory requirements and protections

### Annual payment conditional on verification of contract compliance not estimate of service

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#### Annual service payment

#### Monthly Rancher Report



#### Stage & Rainfall Measurement



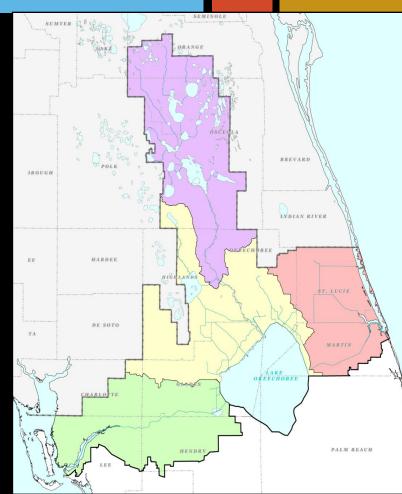


#### Monthly site visit

# **NE PES Program Launched Jan 2011**

## First Solicitation

- 14 proposals/8 projects selected providing 4,800 ac-ft/yr retention
- Contract obligation of \$7 mill over 10 yr life of contract
- Price per ac-ft ranged from \$99 to \$158
- Preparing for 2<sup>nd</sup> solicitation - winter 2012



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