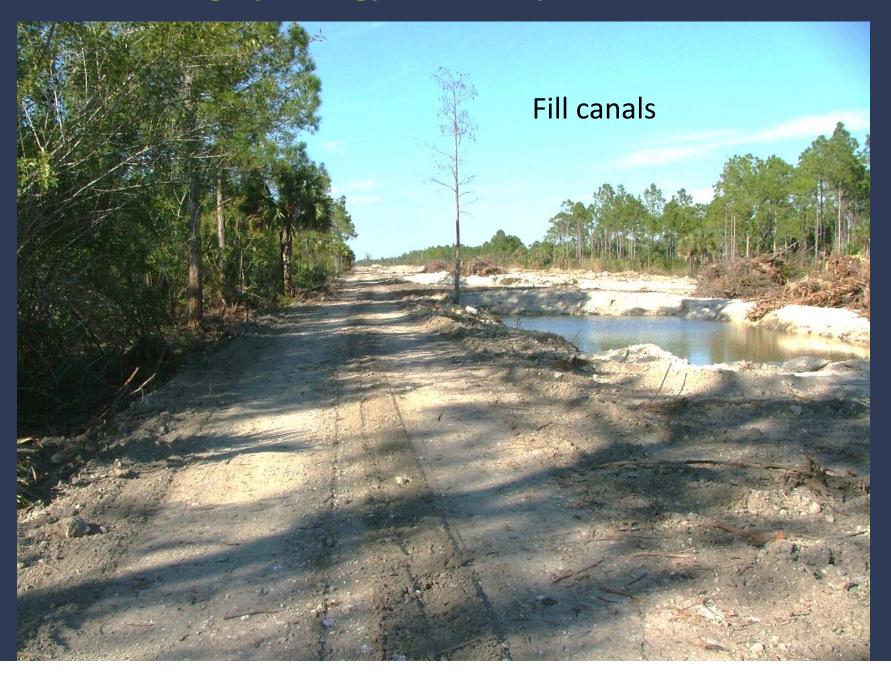
GEER 2015

Following the Bulldozers. Invasive Plant Control for the Picayune Strand Restoration Project

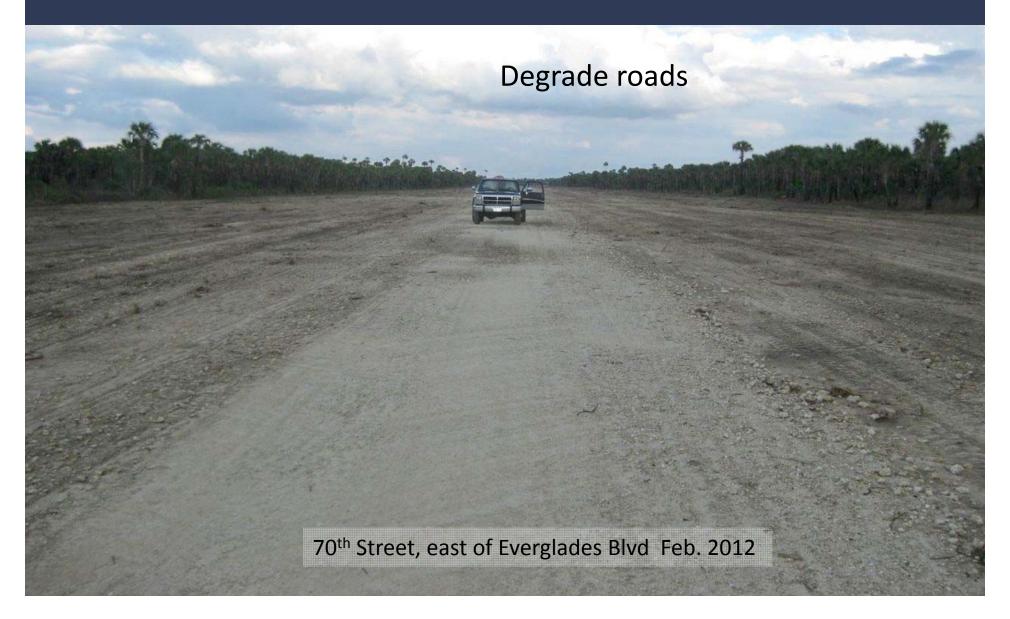


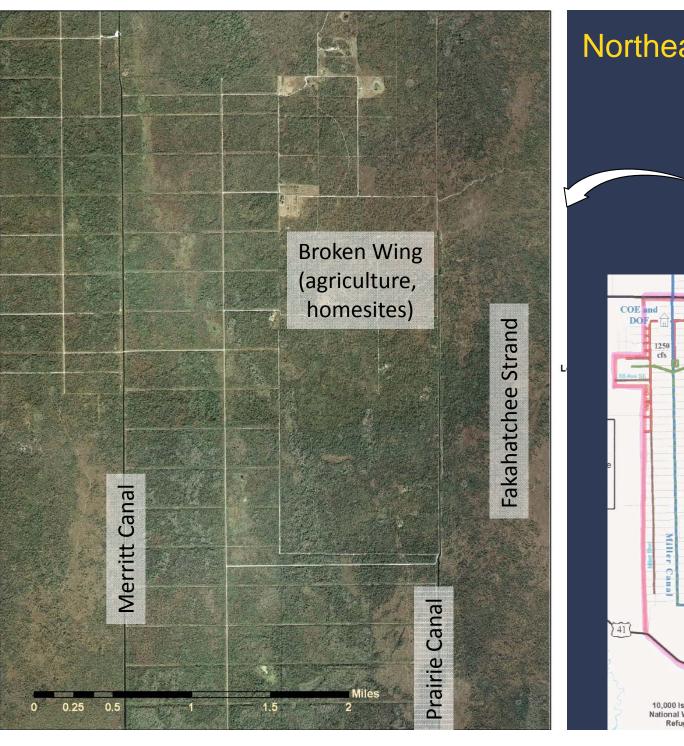
Restoring hydrology and ecosystem functions

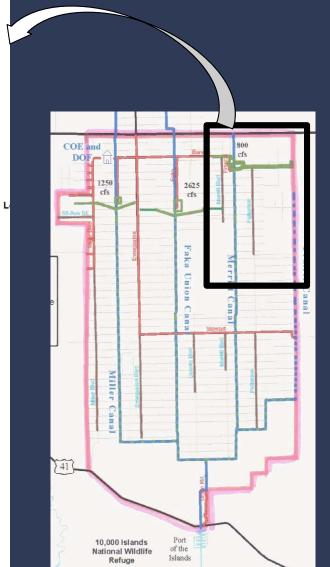


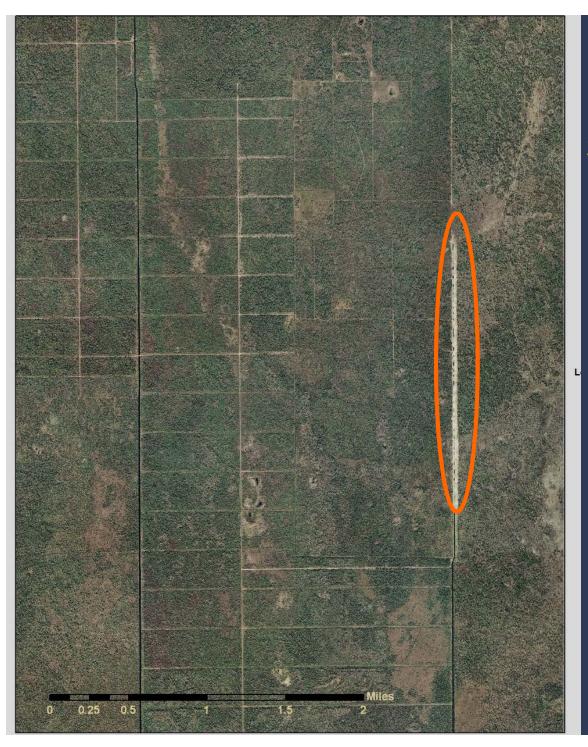
Restoring hydrology and ecosystem functions

degradation of a grid of hundreds of miles of roads ~7,000 acres to be bulldozed









2 miles of Prairie Canal filled (2004)



2 miles of Prairie Canal filled

5 more miles of Pr Canal filled

Roads degradation started



2 miles of Prairie Canal filled

5 more miles of Pr Canal filled

Roads degradation started

More roads degraded



2 miles of Prairie Canal filled

5 more miles of Pr Canal filled

Roads degradation started

More roads degraded

Logging trams degraded

Tie-back levee installed; Merritt pump station completed

Merritt Phase roads degraded



2 miles of Prairie Canal filled

5 more miles of Pr Canal filled

Roads degradation started (2007)

More roads degraded

Logging trams degraded

Tie-back levee installed; Merritt pump station completed

Merritt Phase roads degraded

Construction footprints revegetated (2015 Merritt Canal plugged)

Role of Institute for Regional Conservation (IRC)



Since 2008, IRC is contractor responsible for:

1) Coordinating crews doing control of exoitc/invasive plants

Coordinator (Mike Barry) adapts to weekly changes in:

availability of funding

• conditions that restrict herbicide application:

water levels (flooding) rain / lightning frost fire

 seasonal conditions of target plant species

availability of trained crew

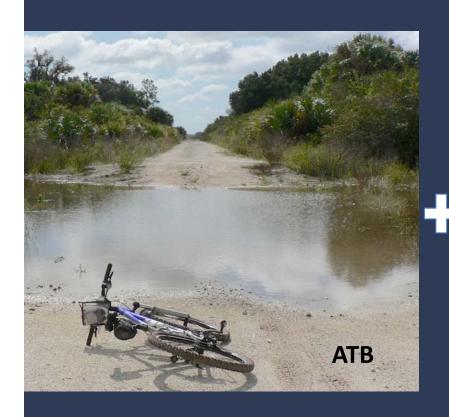


Role of Institute for Regional Conservation (IRC)



Since 2008, IRC is contractor responsible for:

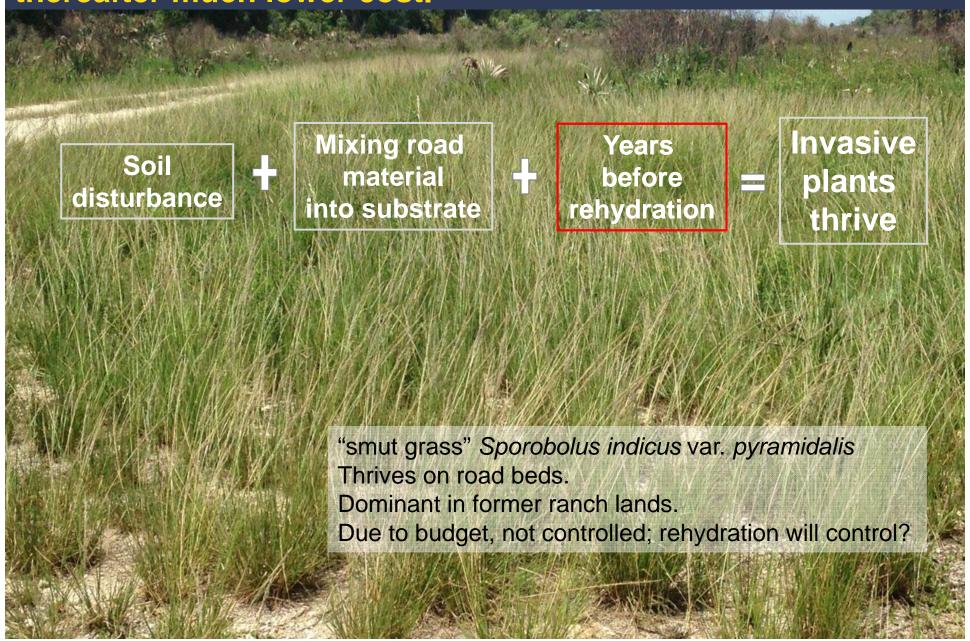
2) Mapping and monitoring the control of invasive plants





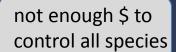


The Plan: 6 years of treatments to attain "maintenance level"; thereafter much lower cost.

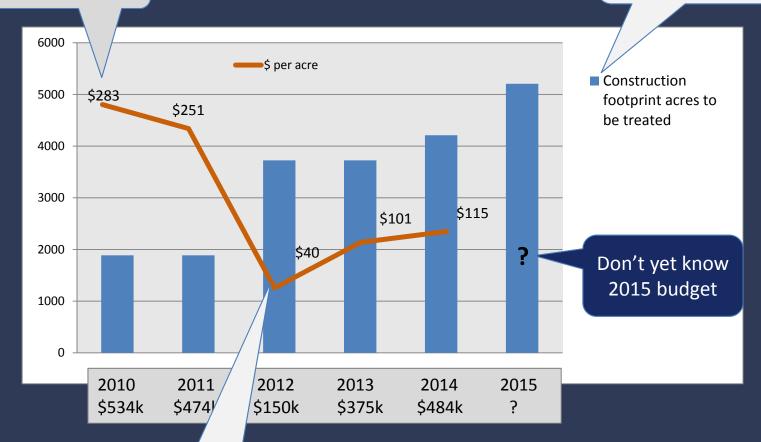




Funding for controlling invasive plants has been limited and unpredictable.



Number of treatment acres increases annually



Very low funding

- = untreated acres
- = set-back of 2-3 years

Adaptive management to fluctuating biological conditions and fiscal conditions (more coverage of invasive species; never enough \$)

Modified target strategy:

A. Must-Do

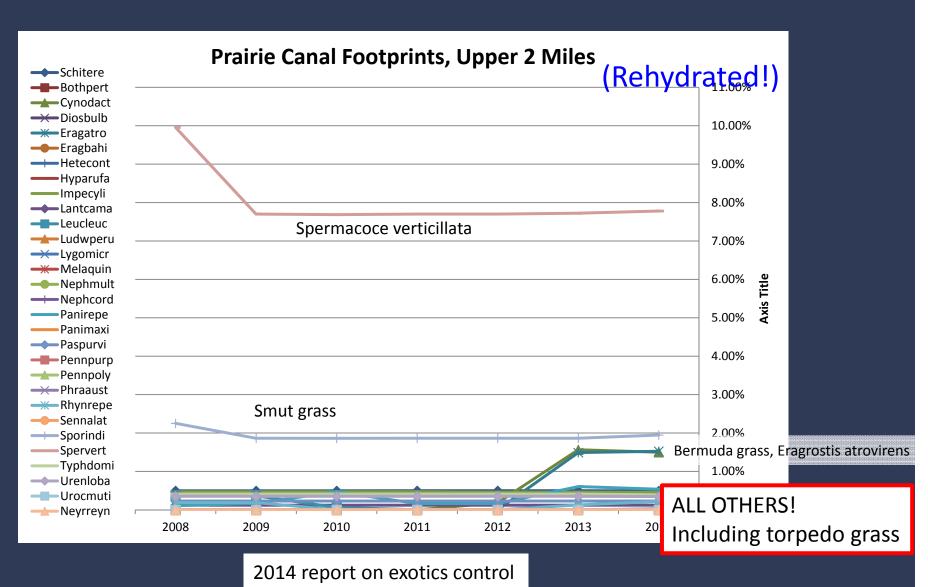
B. Can-Do (within constraints)

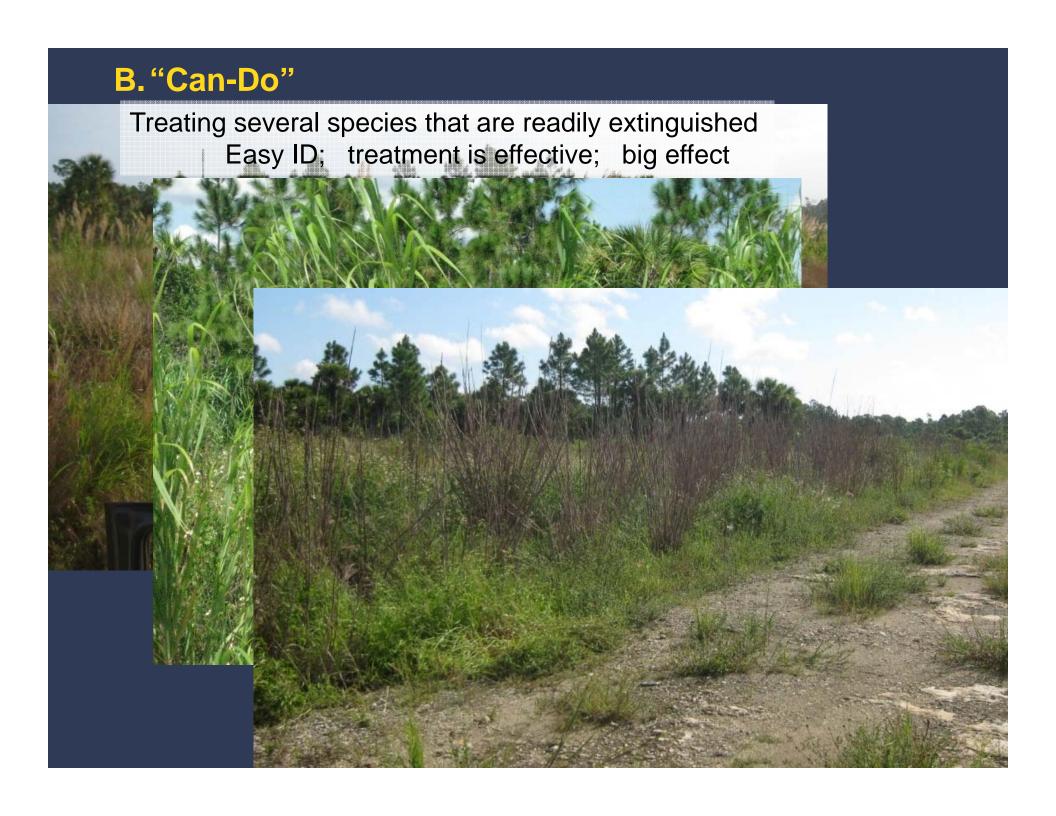
C. Deferred

D. Problematic areas that require attention

A. "Must-Do"

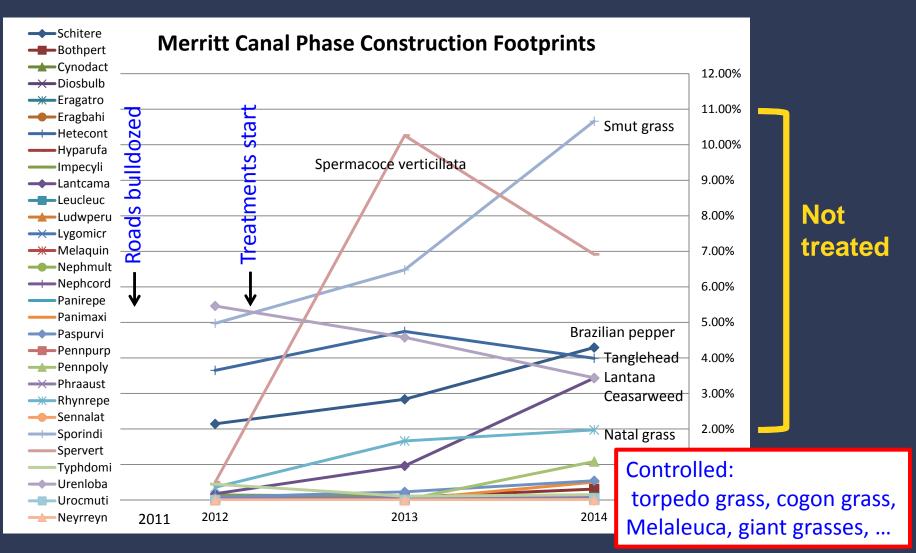
Pre-emptive strikes on aggressive wetland invasive species with repeated follow-up treatment (Treating the worst of the worst.)





C. "Deferred"

Holding off on treatment of most upland species until post-rehydration (tanglehead, smut grass, natal grass, etc.)



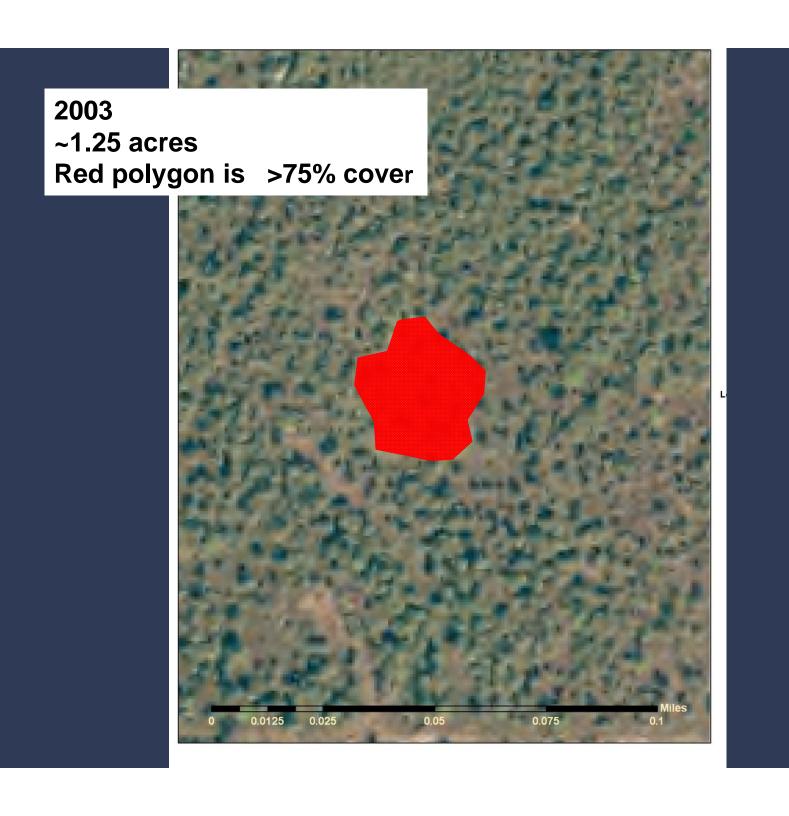
2014 report on exotics control

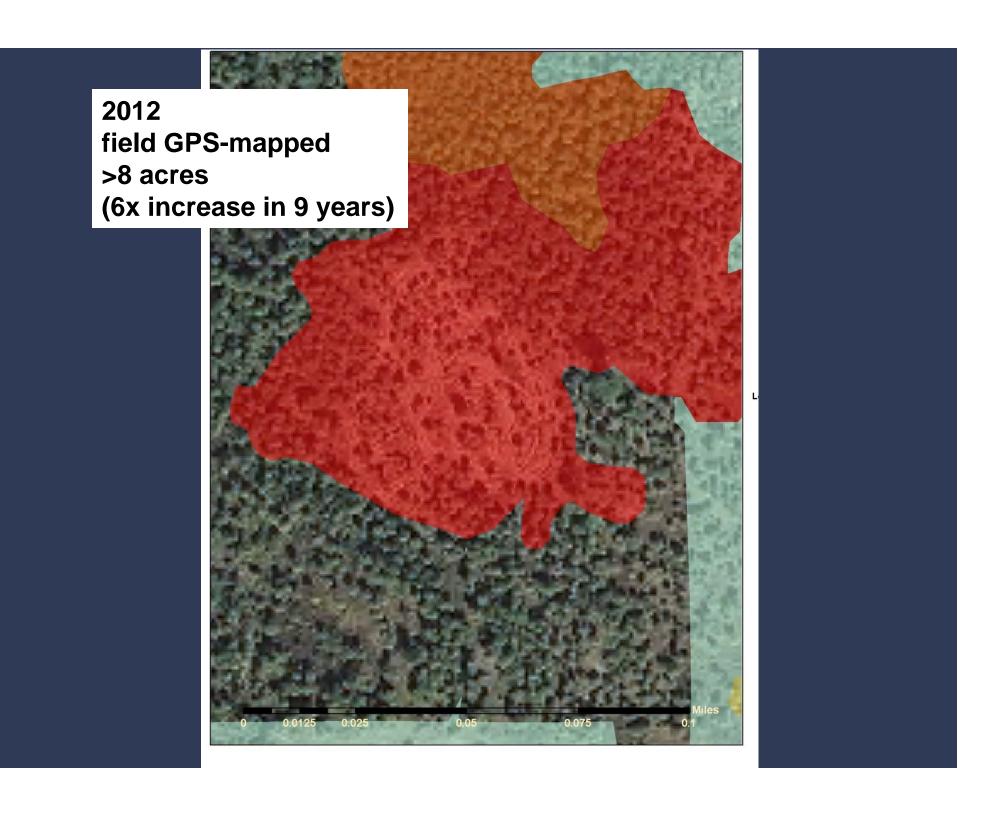
D. "Problematic areas that require attention"

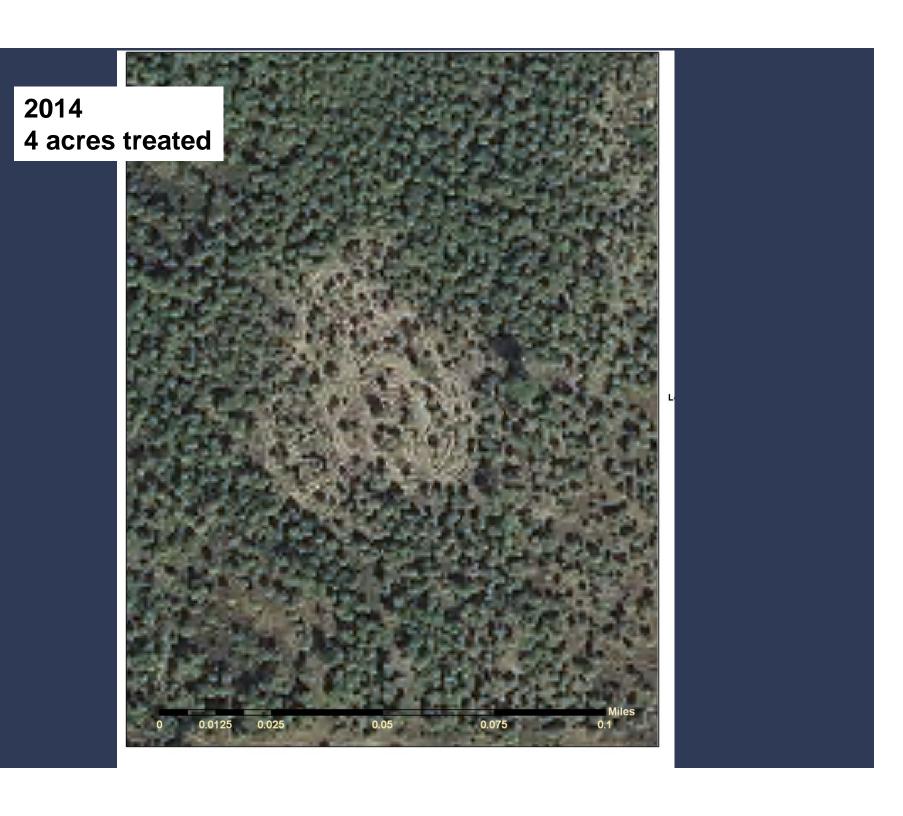
treating aggressive species in upland disturbed areas (former agriculture sites) that will not be rehydrated.



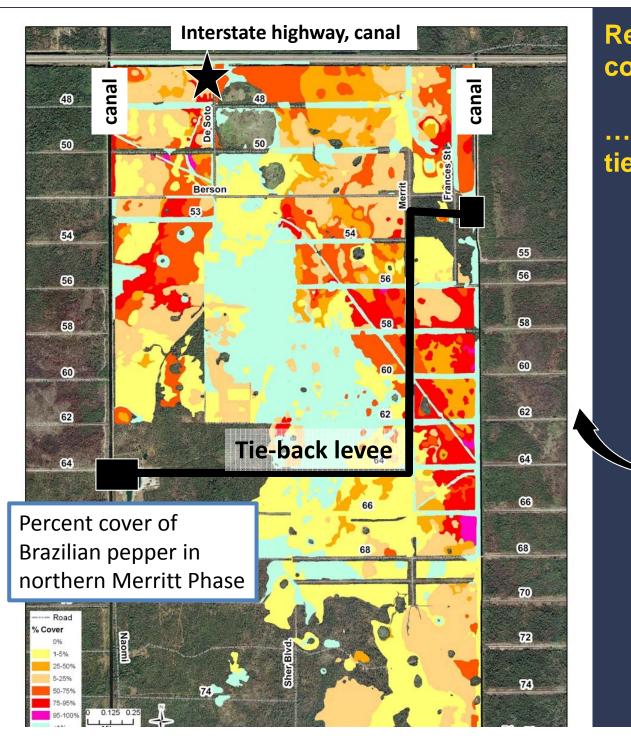












Re-hydration will assist in controlling invasive plants

... but not upstream of tie-back levee?

