

Everglades Cooperative Invasive Species Management Area



Updating Plant Occurrence Records in Broward County Preserves

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- Intensive surveys
 - Ongoing
 - Preliminary data
- Lots of new species/occurrences
- Some good/some bad
- Patterns in new occurrences reflect regional species pool
- Trend toward increased generalization





The good...

- Added 21 native species to Parks flora
- Documented 29 native taxa listed as historical/extirpated by IRC
- Documented 99 native taxa listed as suspected by IRC
- Documented 1 native taxon new to continental U.S.!





Tournefortia bicolor (Niguita)



- Large liana
- Boraginaceae
- Large, glabrous, alternate leaves
- Likely escaped from Butterfly World (pyrrolizidone alkaloids)
- Found in Tradewinds Park



- Common weed in Peru
- Fast grower
- Bird/wildlife dispersal
- Climbs/smothers



Dolichandrone spathacea (Mangrove trumpet tree)



- Bignoniaceae
- Opposite, compound leaves with droop tip
- Mangrove habitats in Asia, but found in xeric hammock
- Single occurrence at PIR





Dolichandrone spathacea

Family: Bignoniaceae

Mangrove Trumpet Tree

Origin: India



Flowers trumpet-shaped large white delicate with ruffled edges, in clusters of 2-10 flowers. The flower is edible and it is part of Thai cuisine.

Similar plants:

- *Dolichandrone sp.* (Mangrove Trumpet Tree)

We have this item for sale



Dolichandrone spathacea
(see the right)



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TopTropicals.com

Fly nonstop to
Asheville

one way as low as
\$43*

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Artocarpus heterophyllus (Jackfruit)



Rodriguésia 61(4): 677-688. 2010
<http://rodriguésia.fbrj.gov.br>

Exotic tree *Artocarpus heterophyllus* (Moraceae) invades the Brazilian Atlantic Rainforest

Árvore exótica Artocarpus heterophyllus (Moraceae) invade a Mata Atlântica brasileira

Rodolfo Cesar Real de Abreu^{1,2} & Pablo José Francisco Pena Rodrigues¹

Abstract

Artocarpus heterophyllus Lam. (jackfruit) was man made introduced in Tijuca National Park (TNP) in the mid-1800s. Native from Southeast Asia, nowadays densely colonizes the TNP. Here we analyze some jackfruit population parameters that probably allowed the local colonization followed by successful invasion of the new habitat. Based on 20 sample plots, randomly placed inside 5 sites colonized by jackfruit, we described subpopulations hierarchical size diameter structures. Gini's coefficient values turned around 0.64 and Lorenz's asymmetry

- Moraceae
- Important fruit crop
- Single occurrence at PIR



Barleria repens (Coral creeper)





Digitaria eriantha (Pangolagrass)

~~*Digitaria longiflora* (Indian crabgrass)~~

~~*Digitaria setigera* (East Indian crabgrass)~~

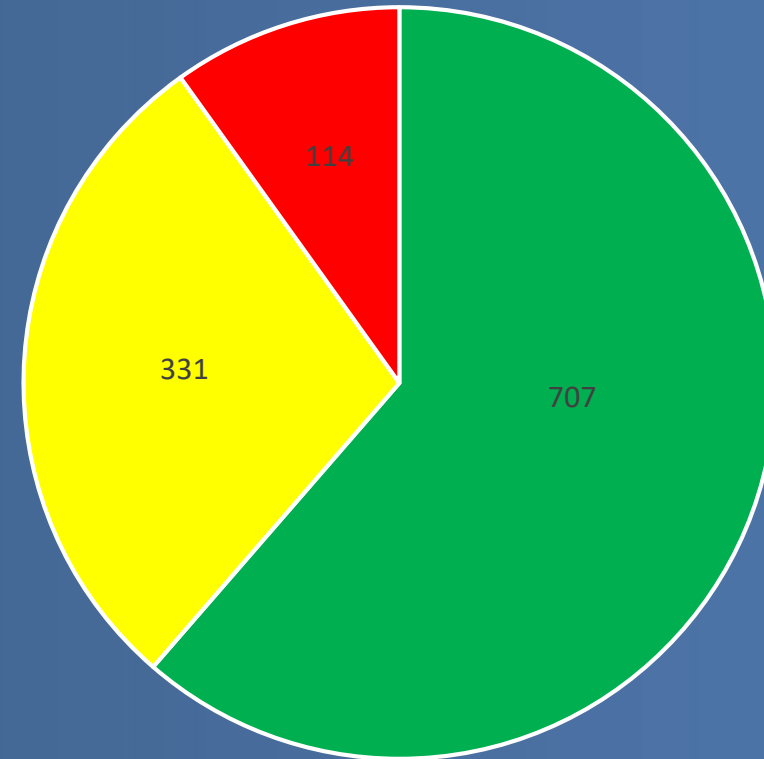


- Messy perennial of dry habitat
- Responds positively to fire
- Crabgrass with runners bad news!



Number of Species

Total Species: 1,152
Native: 707 (61.4%)
Non-Native (unlisted): 331 (28.7%)
Invasive: 114 (9.9%)

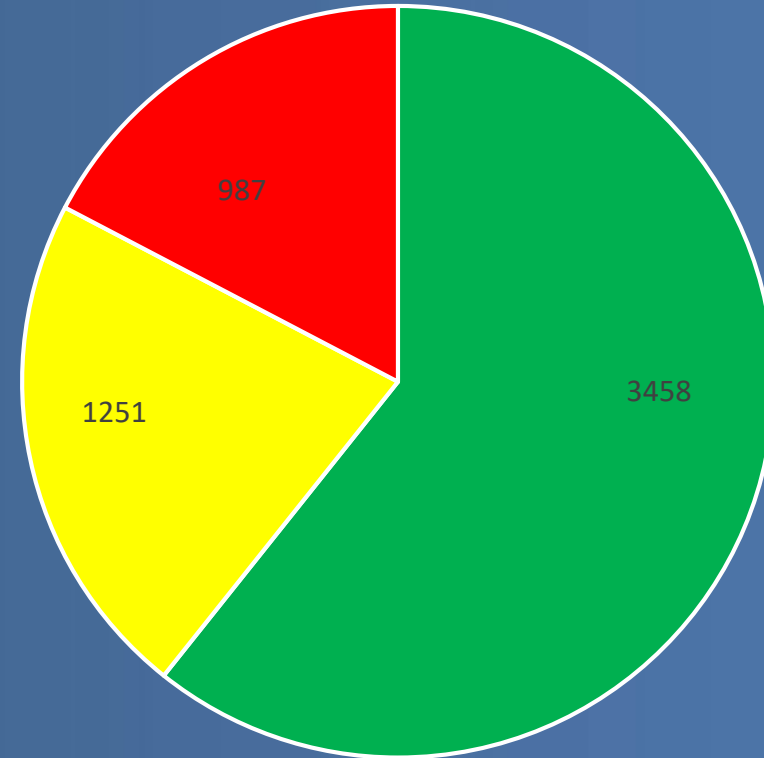


Native Non-native Invasive



Total Occurrences: 5696
Native: 3458 (60.7%)
Non-Native: 1251 (22%)
Invasive: 987 (17.3%)

Occurrences

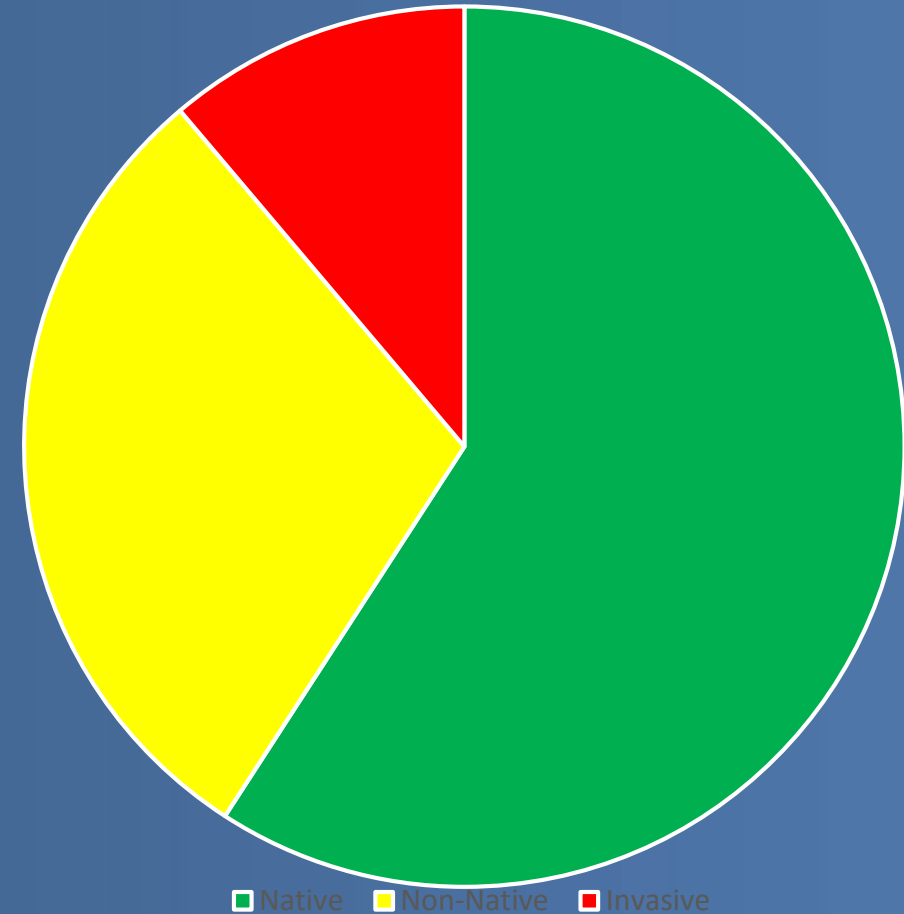


■ Native ■ Non-native ■ Invasive



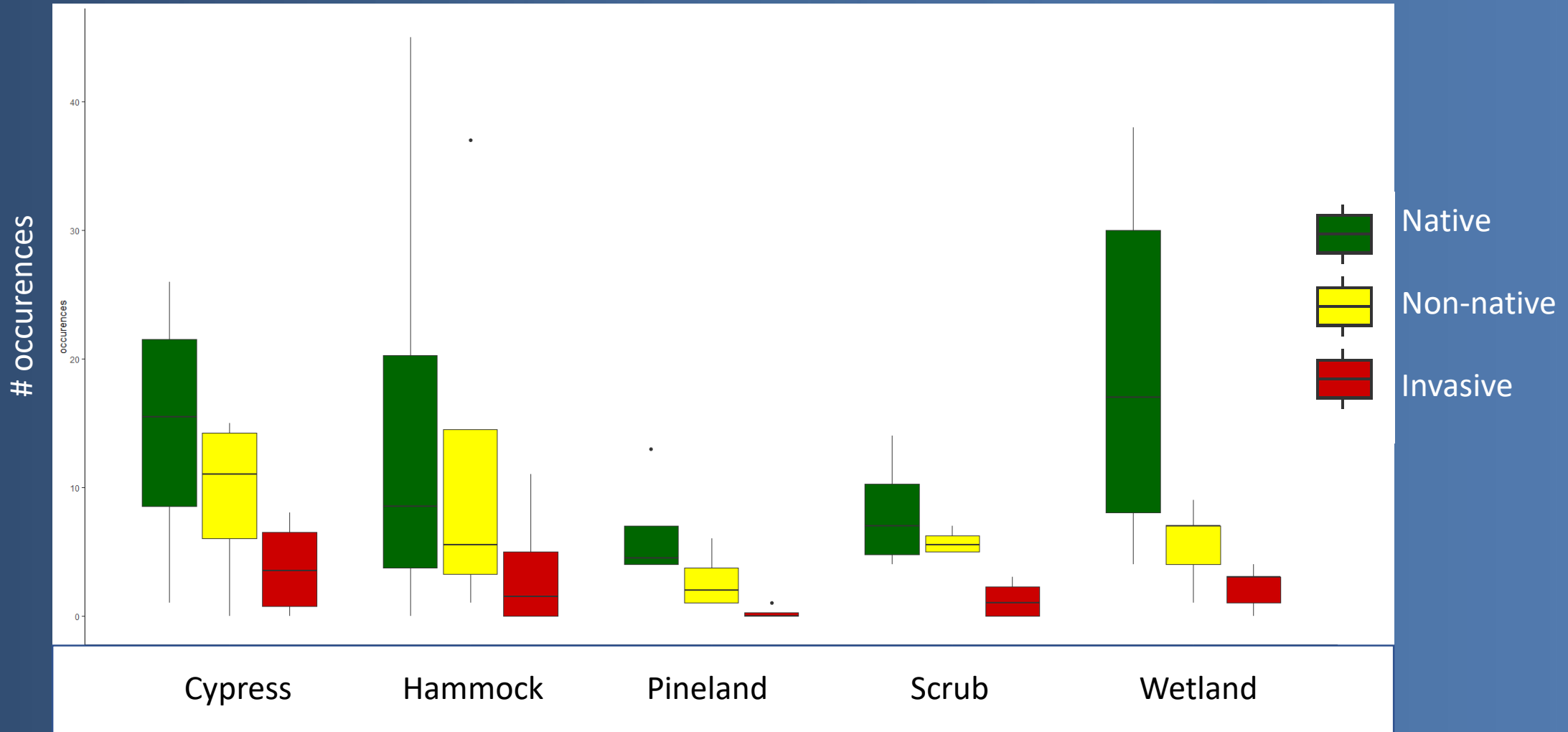
Total New occurrences: 521
Native : 307 (59%)
Non-Native (unlisted) : 154
(30%)
Invasive: 58 (11%)

New Occurences





Nativity of new occurrences by habitat





Increase in generalist species in scrub

	# of Species/site	# of new occurrences/site
Native	6.25	8.5
Non-native	4.75	6
Invasive	1.25	1.25
Generalist	12.25	14.25
Scrub specialist	1.25	1.5



Summary

- Botanical surveys are an invaluable tool guiding conservation land management activities
 - particularly in a changing landscape
- Know the good (allow for successes) and the bad
- Essential in identifying new invasions while eradication is possible
- Management of fragmented systems complicated by trends of increasing non-native and invasive species confounded by trend of increasing generalist native species



Acknowledgements & Questions

- Broward County Parks and Recreation Division
- The Institute for Regional Conservation
- ECISMA!

