

- Key deer background
- Population trends
- Pineland use by Key deer
- Future conservation challenges

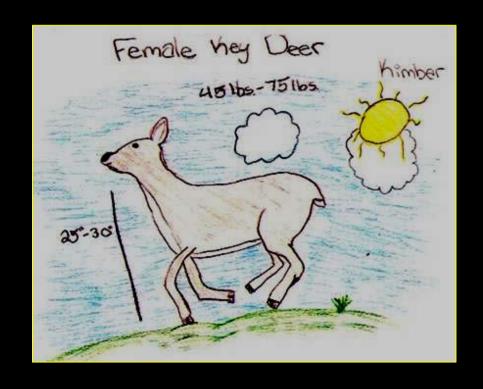


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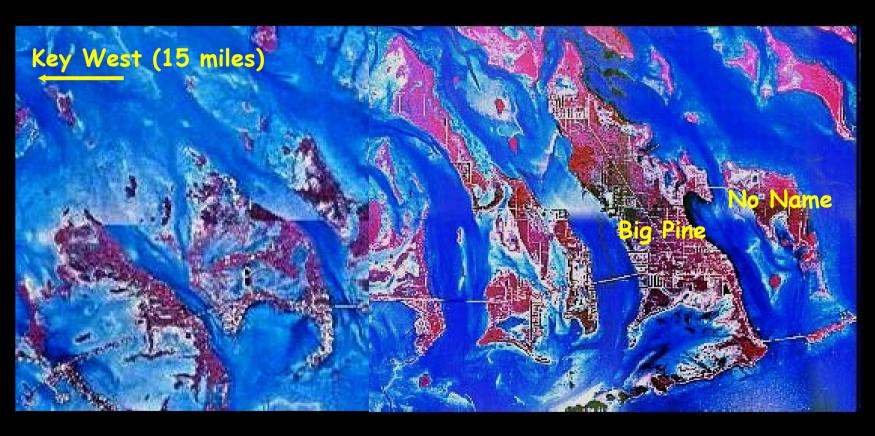
### Florida Key Deer

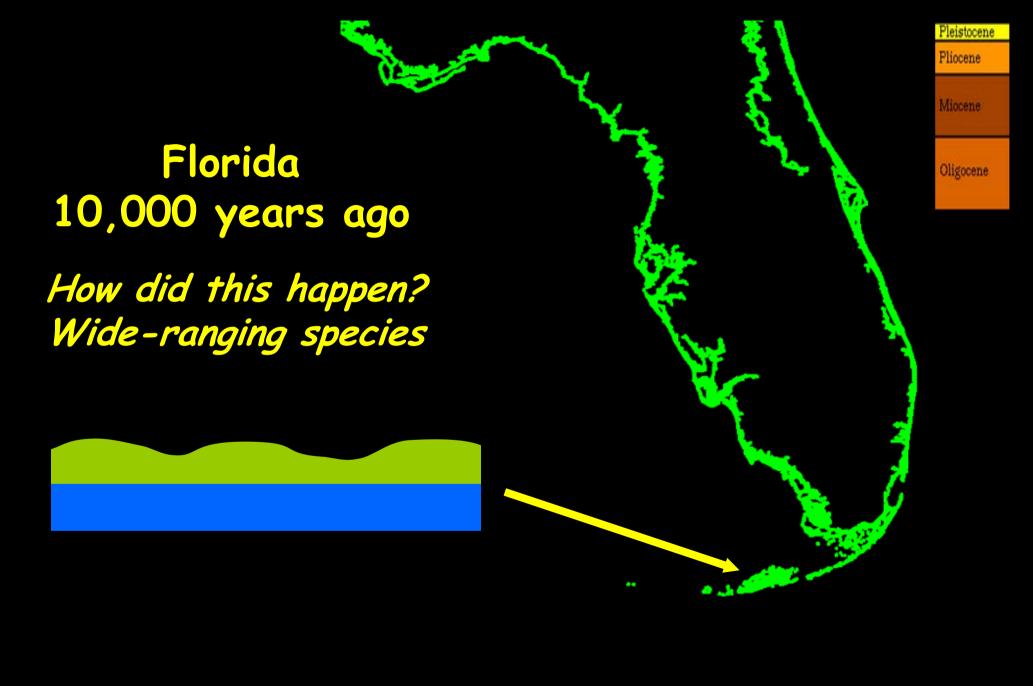
- Diminutive race of whitetailed deer (Odocoileus virginianus clavium).
- Listed as endangered in 1967.
- Endemic to the Lower Florida Keys, primarily BPK and NNK.





# Key Deer Range



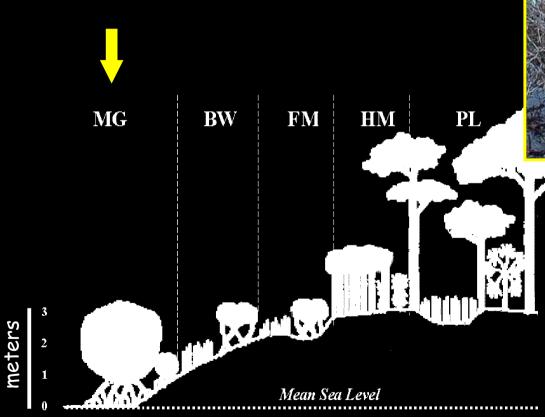


### Vegetation Types

- Vegetation types are influenced by tides
- With increasing elevation, maritime zones transition in hammocks and pinelands



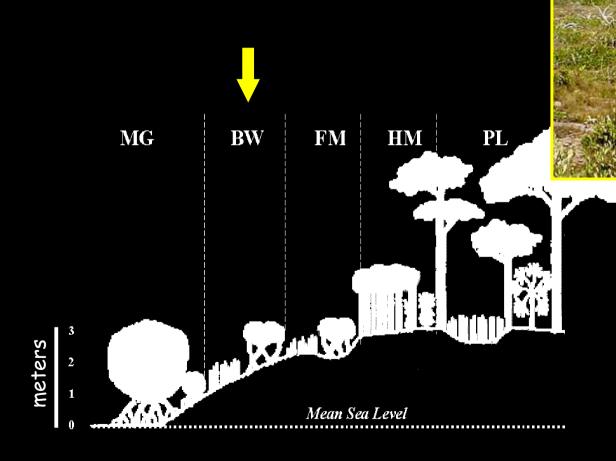
## Mangrove





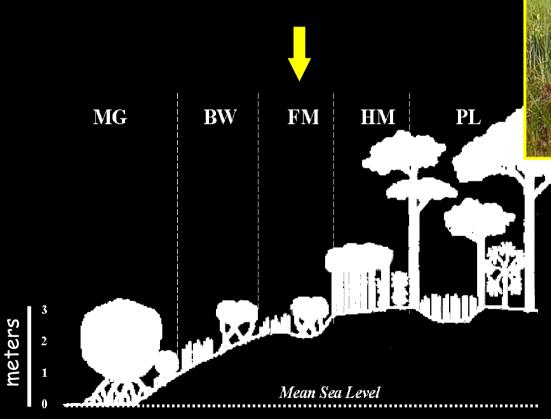
Examples:
red mangrove
black mangrove
white mangrove

#### Buttonwood





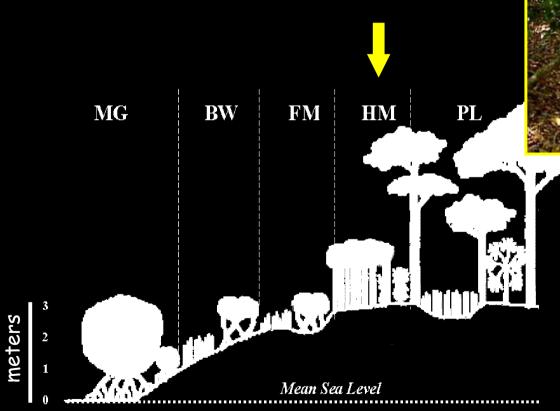
#### Freshwater Marsh





Examples:
sawgrass
buttonwood
mangrove
saw sedge

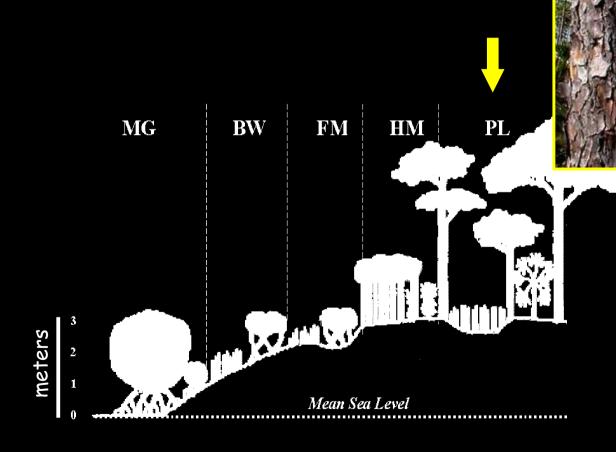
#### Hammock

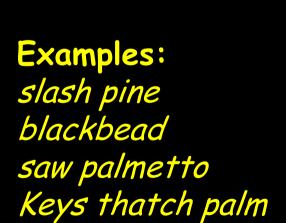




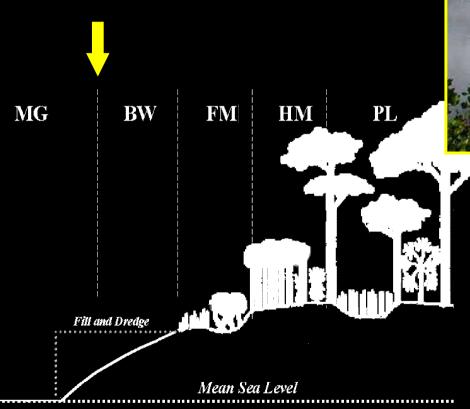
Examples:
gumbo limbo
Jamaican dogwood
poisonwood
blolly

#### Pineland





## Developed

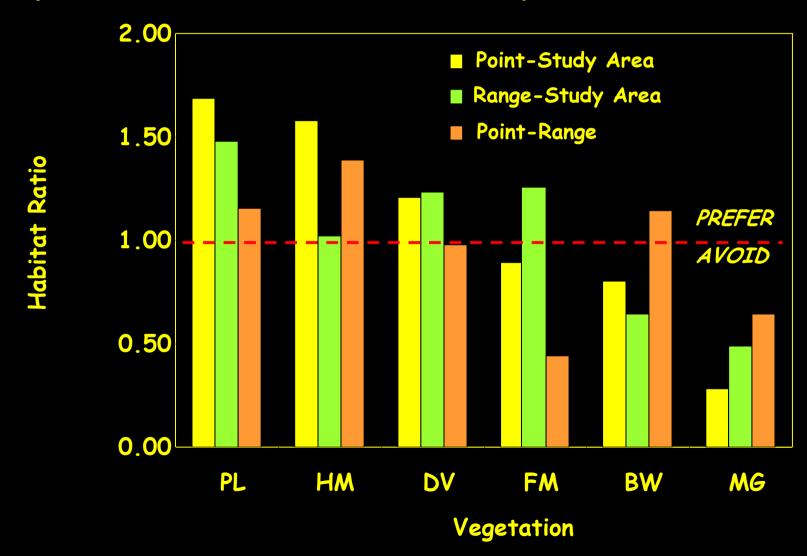




Examples:
hibiscus
poinciana
bouganvillea
bananas



### Upland Habitat = Key Deer



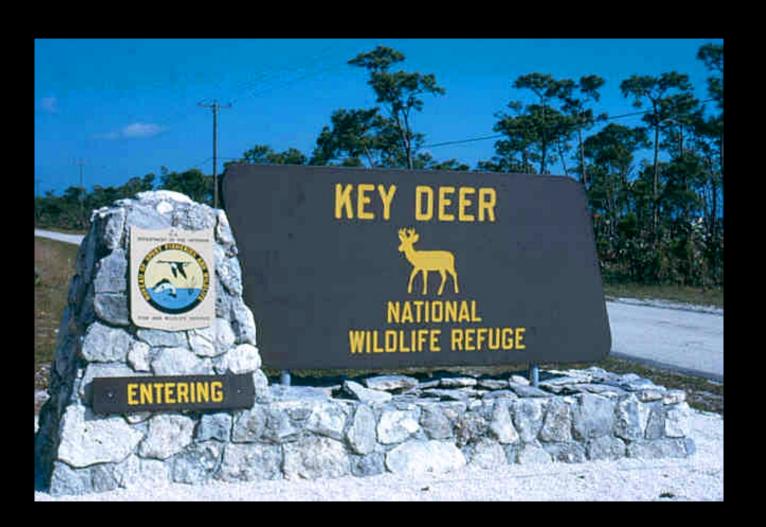
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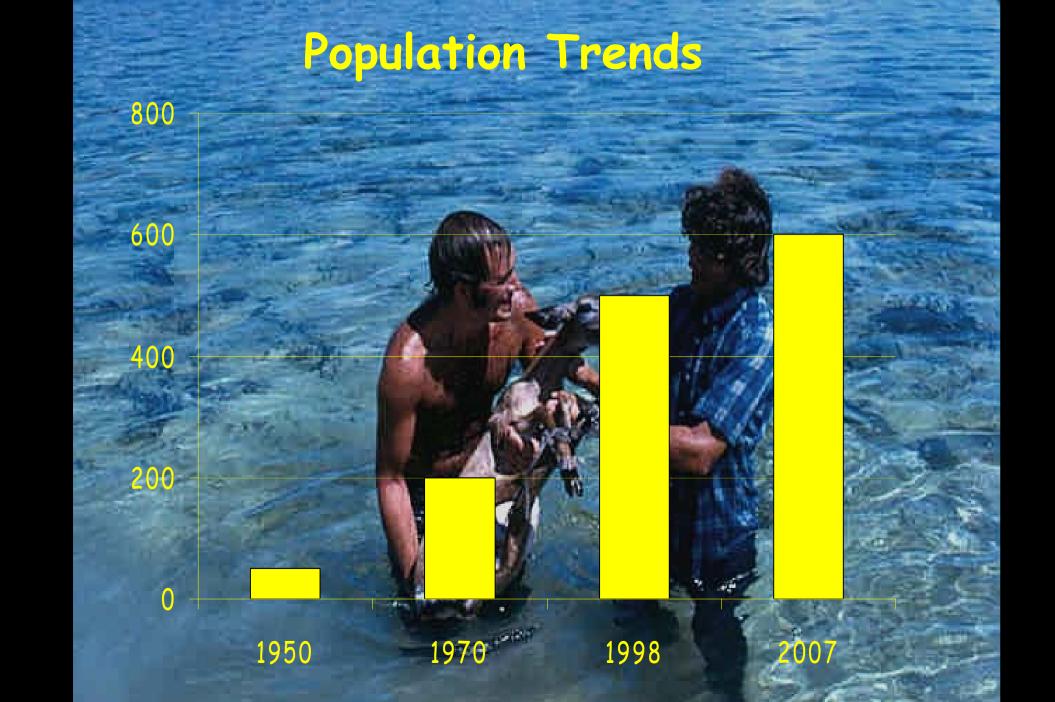










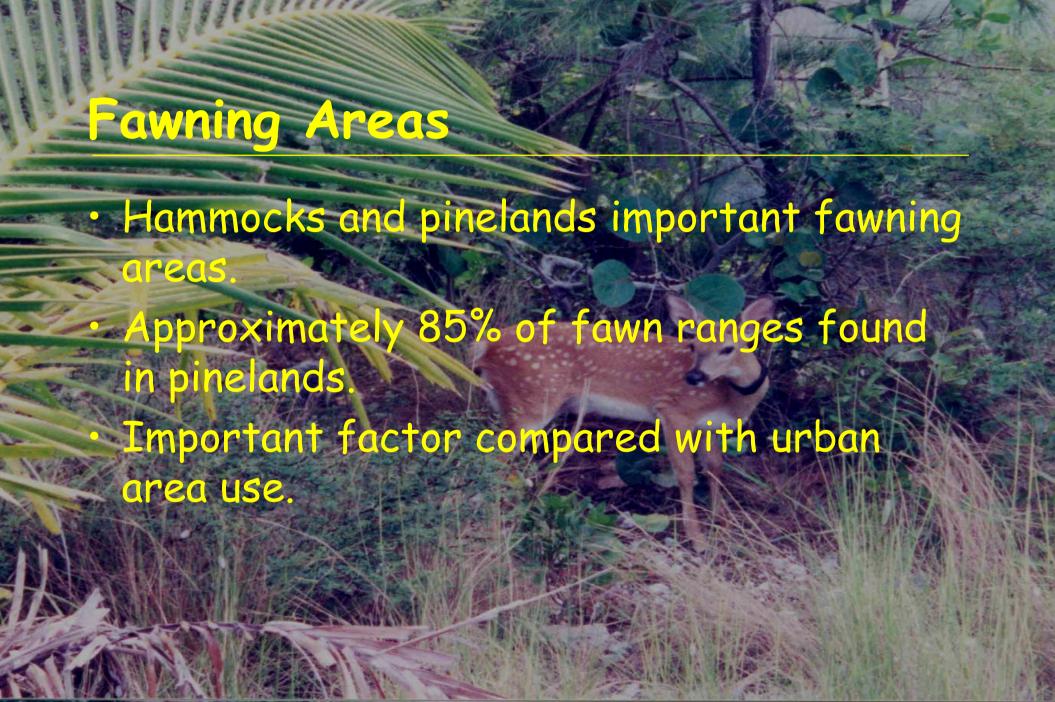


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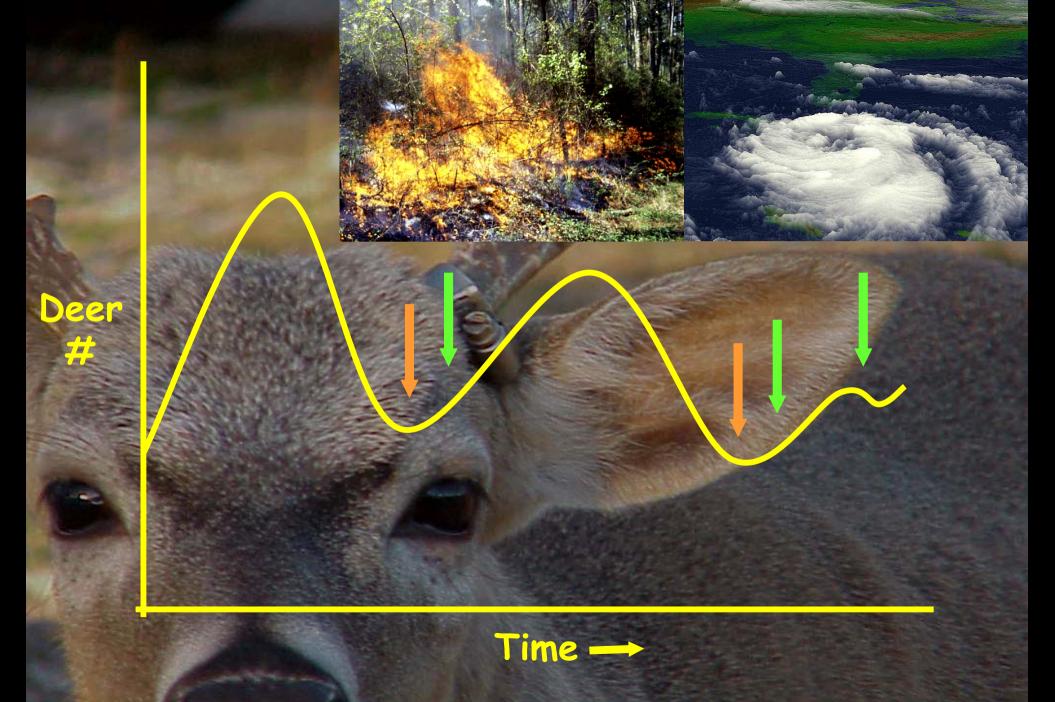






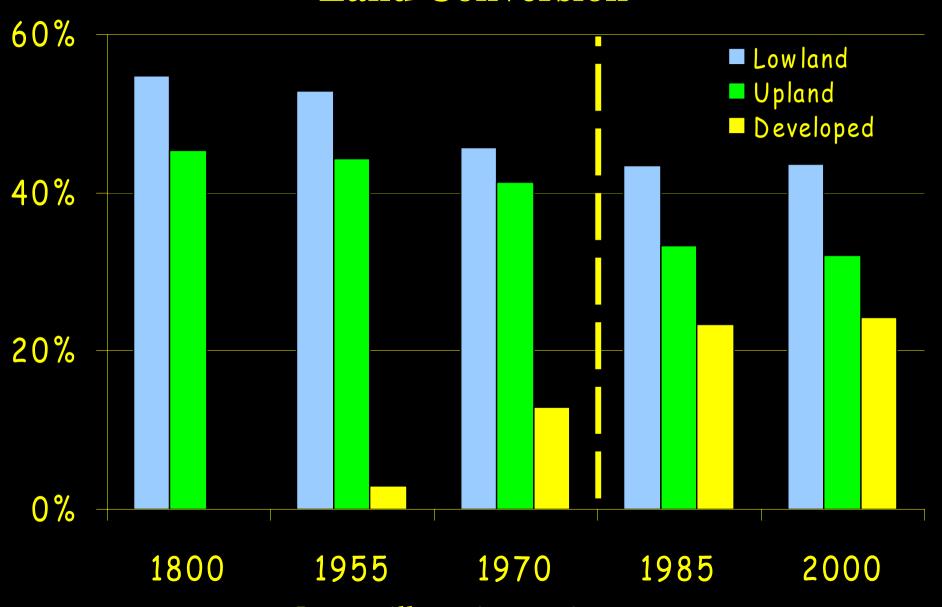






2000 Urban Development Disruption of this dynamic relationship

#### **Land Conversion**



Issue will continue to increase



Deer #

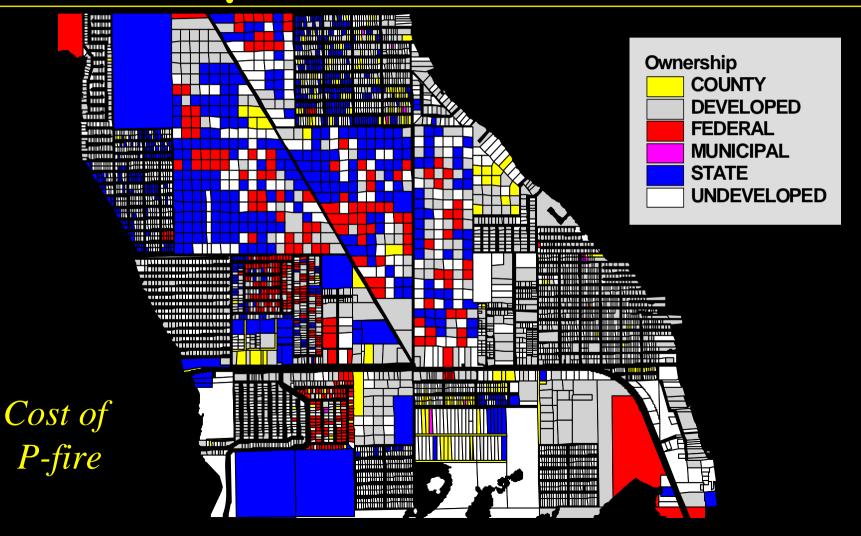
Time since last fire ---

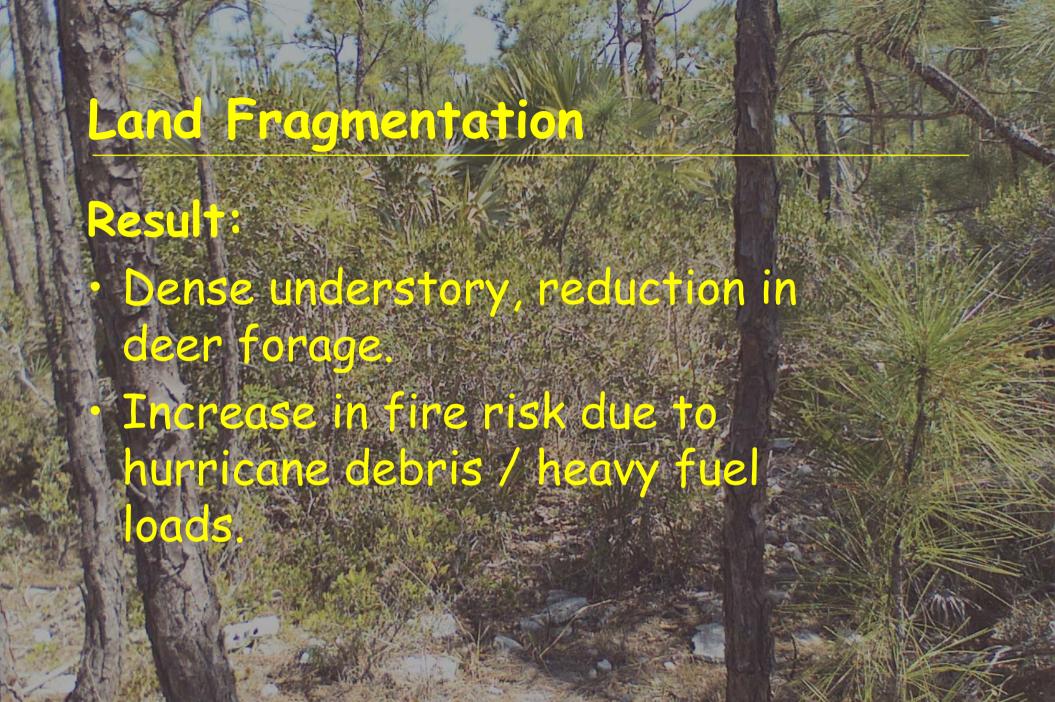
### Future Conservation Challenges

- Land fragmentation makes use of controlled fires difficult.
- Locally abundant deer population impacting pineland vegetation.



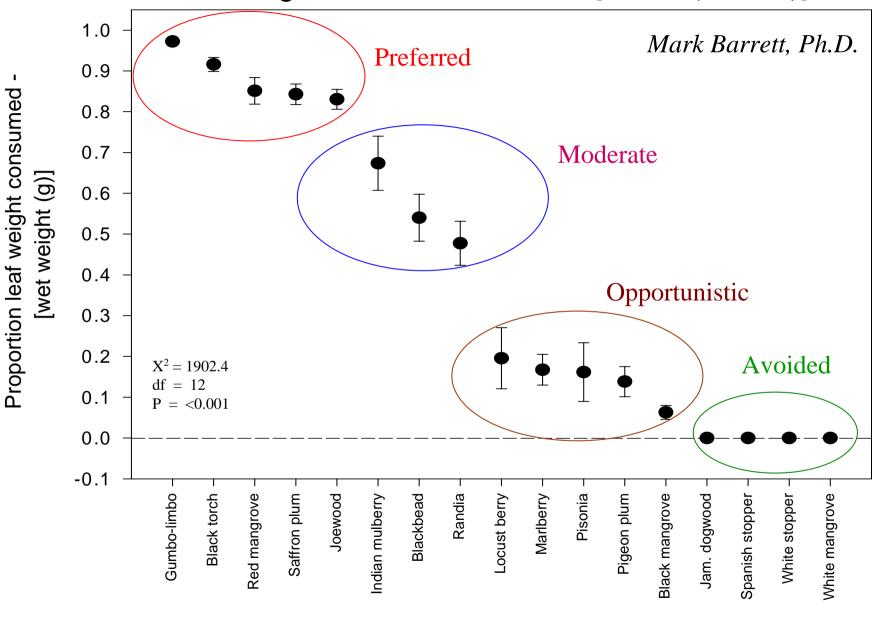
### Ownership Patterns

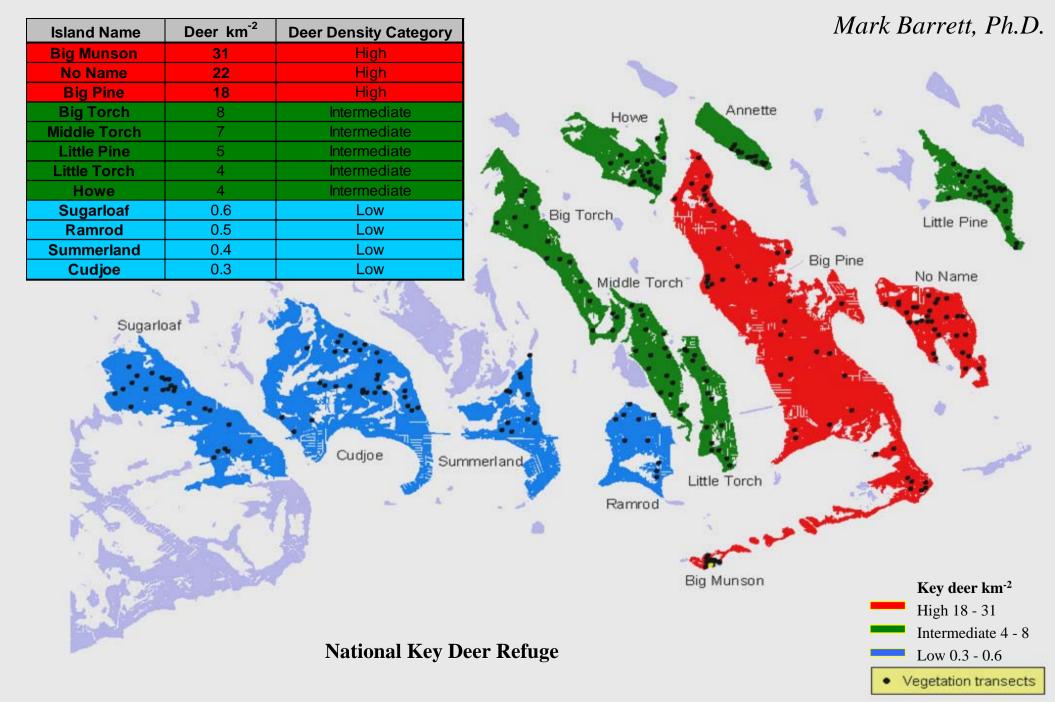


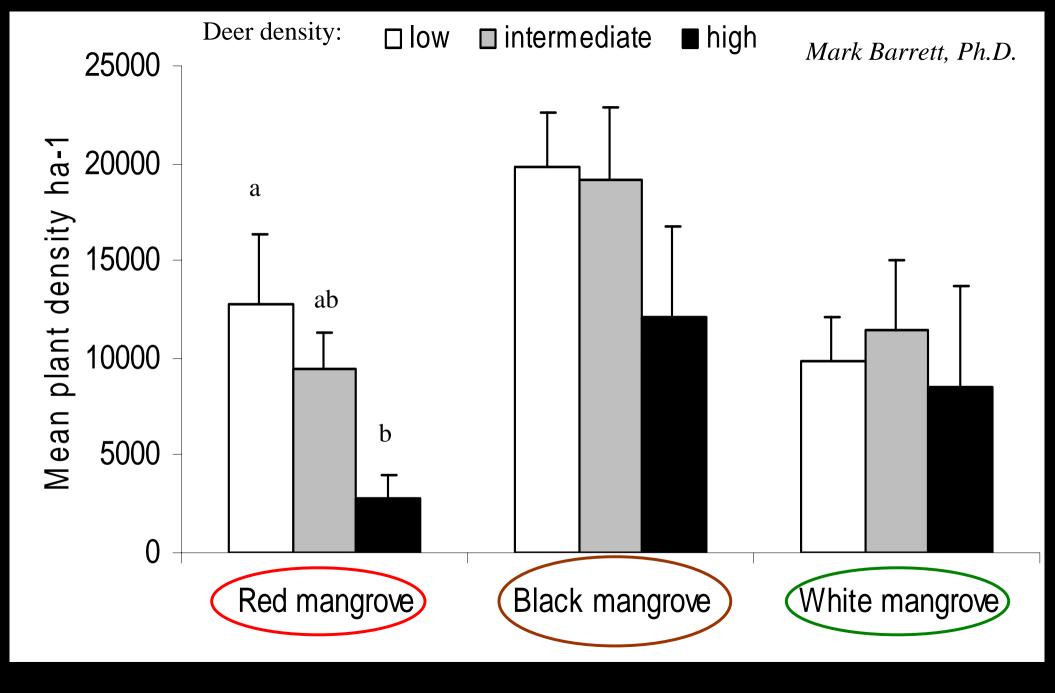




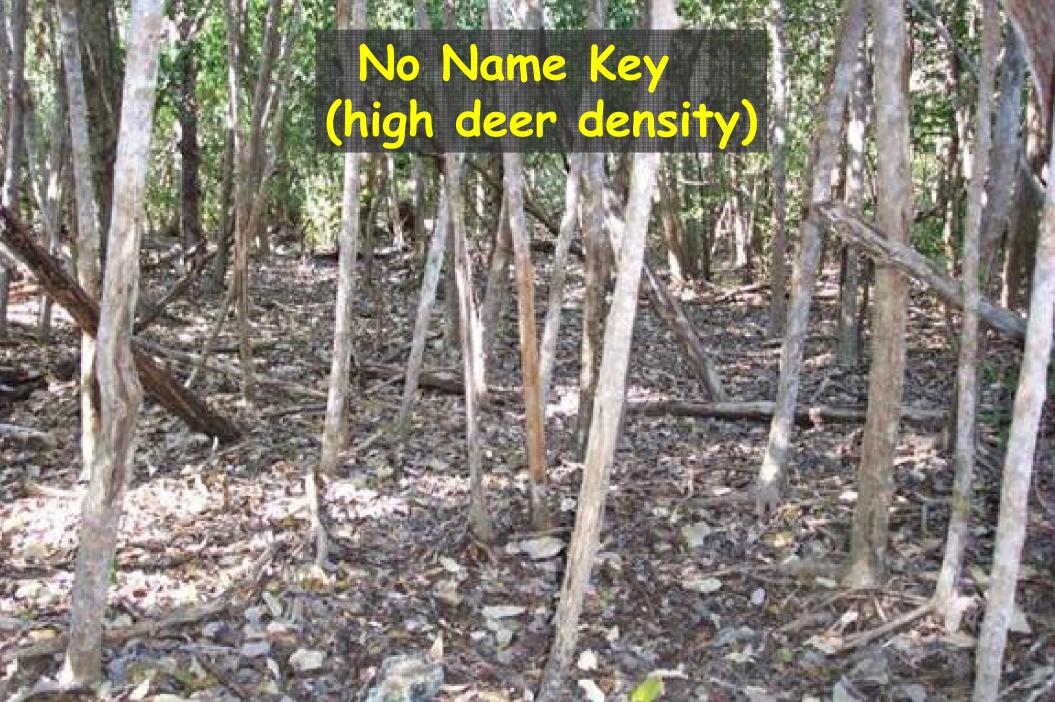
Feeding trials from 4 sites [mean (+/- SE)]











#### Deer "Overabundance"

- · Populations have increased on some islands; have decreased on others.
- Locally abundant deer populations on some islands = cause local plant extinctions.
- · Challenge manage population with different recovery goals?
  - High numbers, reduce populations
  - Low numbers, bolster populations



