## The increasingly important role of inland wetlands on a developing landscape

Corkscrew Swamp Sanctuary



## Audubon


~1910: "100,000 birds"

Audubon

## RAINFALL

1959-

## SURFACE WATER

 Staff Gauges 1959-GROUNDWATER
Well (C-492)
1973-










29\%
(2.6 mo.)


Bald Cypress

Clem, SE \& MJ Duever. 2019. Hydrologic changes over 60 years (1959-2019) in an old-growth bald cypress swamp on a rapidly developing landscape. Wetland Science \& Practice 36(4): 362-372.


## TIMING OF CHANGES



No Wood Stork nesting at Corkscrew


## Corkscrew provides a cautionary tale for our region, our state



## Where is our water going?



## What are the implications?

- Impacts for wildlife



## What are the implications?

- Impacts for wildlife
- Impacts for plants



## What are the implications?

- Impacts for wildlife
- Impacts for plants
- Increased wildfire risk



## What are the implications?

- Impacts for wildlife
- Impacts for plants
- Increased wildfire risk
- Reduced freshwater storage (water supply, saltwater intrusion)



## What are the implications?

- Impacts for wildlife
- Impacts for plants
- Increased wildfire risk
- Reduced freshwater storage (water supply, saltwater intrusion)
- Reduced freshwater filtration



## What are the implications?

- Impacts for wildlife
- Impacts for plants
- Increased wildfire risk
- Reduced freshwater storage (water supply, saltwater intrusion)
- Reduced freshwater filtration
- Reduced salinity buffering



Audubon

How big a problem is this?


- SWFL wetlands don't have the same hard barrier for development as we have on the east coast - development creeps farther inland
- The Western Everglades’ characteristic habitat mosaic allows development of uplands in close proximity to wetlands
- Widespread wetland loss in our region is making it more important for us to protect our remaining resources
- We need to broaden our conversations of inland and coastal conservation issues, and help the public, elected officials, and other stakeholders better understand the important
 links between these ecosystems


