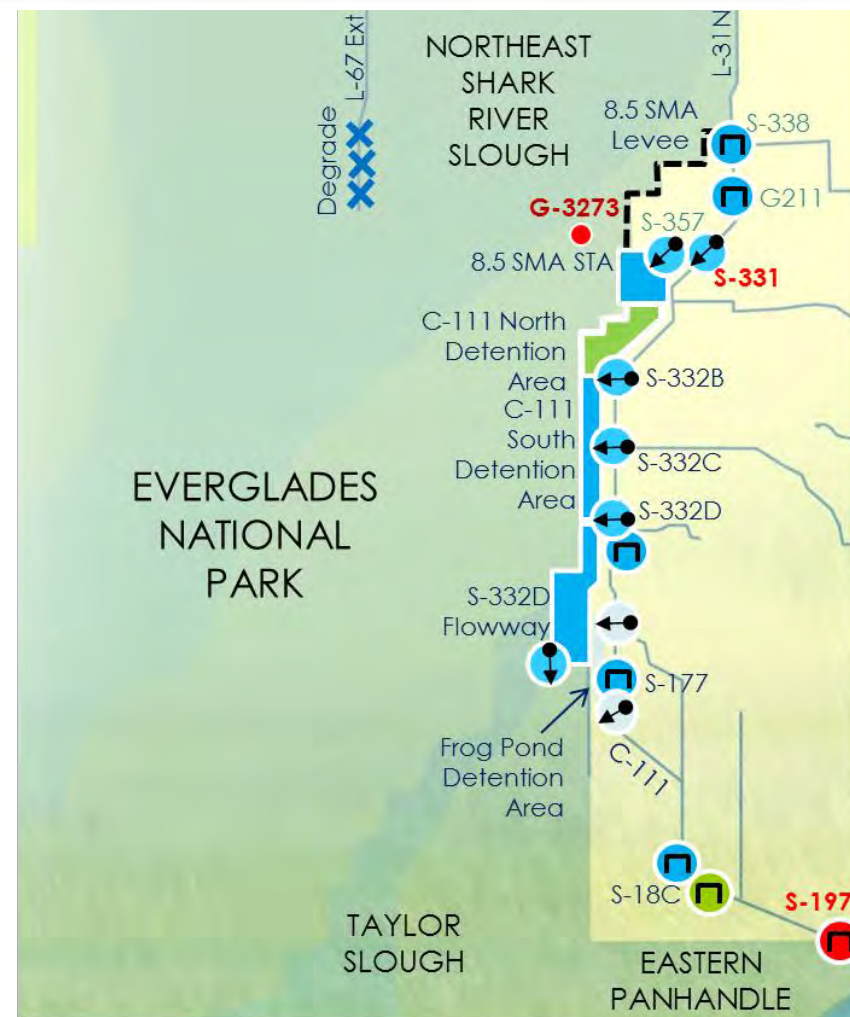


# South Dade Update

South Florida Water Management District  
January 27, 2016

# Overview

- IFAS Data
- Next Steps for Operations
- South Dade Investigation



# Comparison of Surface Water and Groundwater Rise from One inch of Rainfall

Why is Seepage Control Important?

Or Why is Retaining Capacity for Local Runoff Important?

Surface Water Rise from One Inch of Rainfall



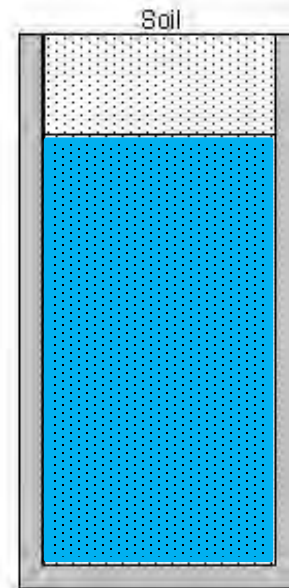
Glass with one inch of water

Canal

Depth (inches)



Groundwater Rise from One Inch of Rainfall



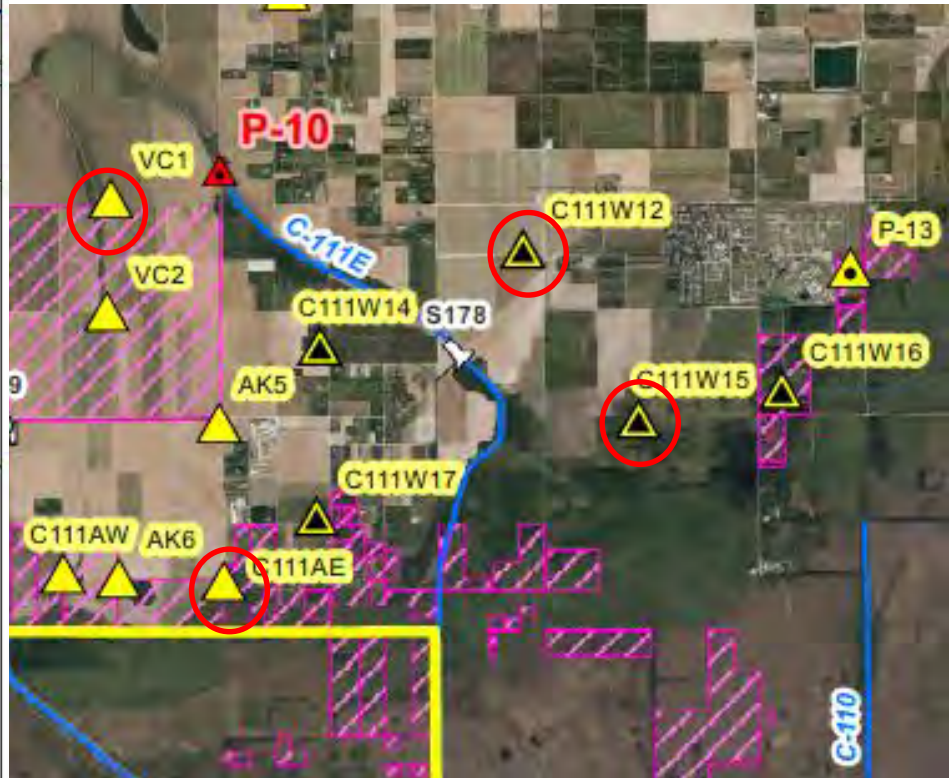
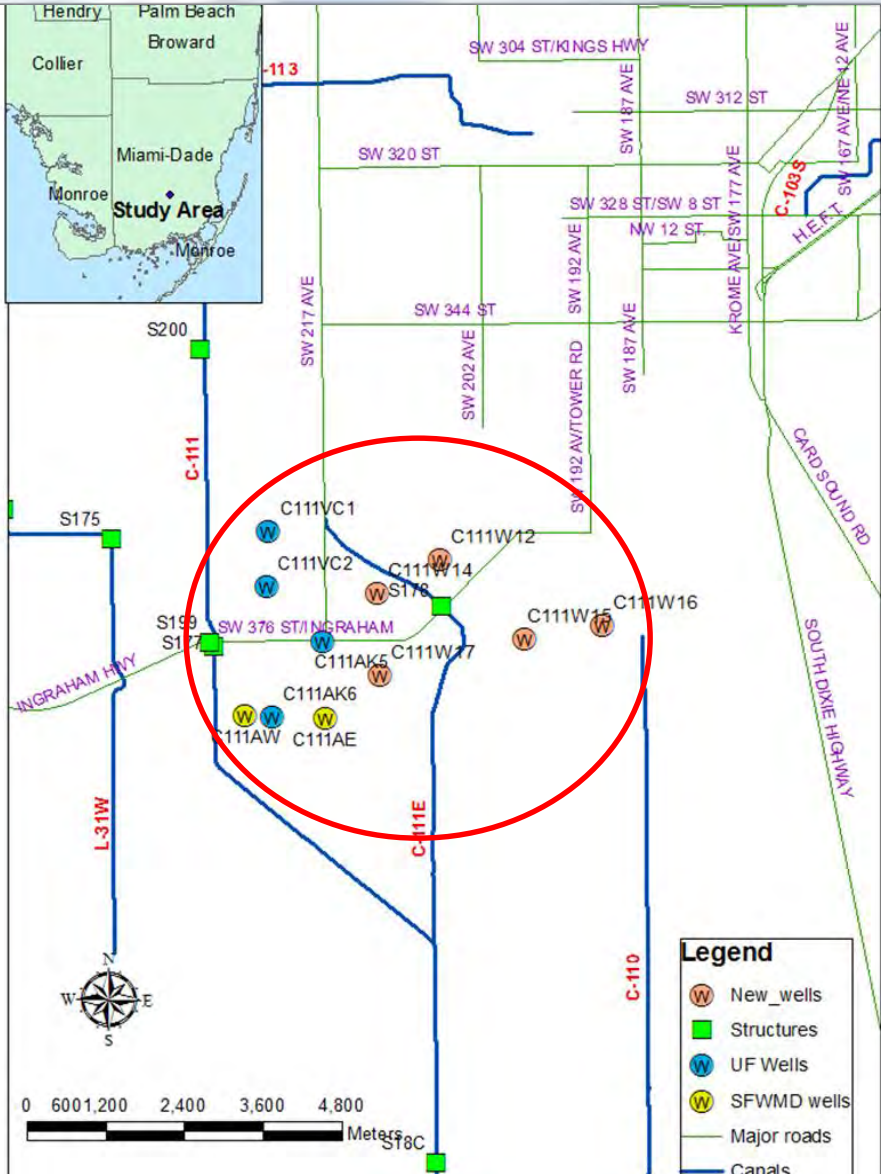
Glass filled with soil and the same volume of water

Surficial Aquifer System





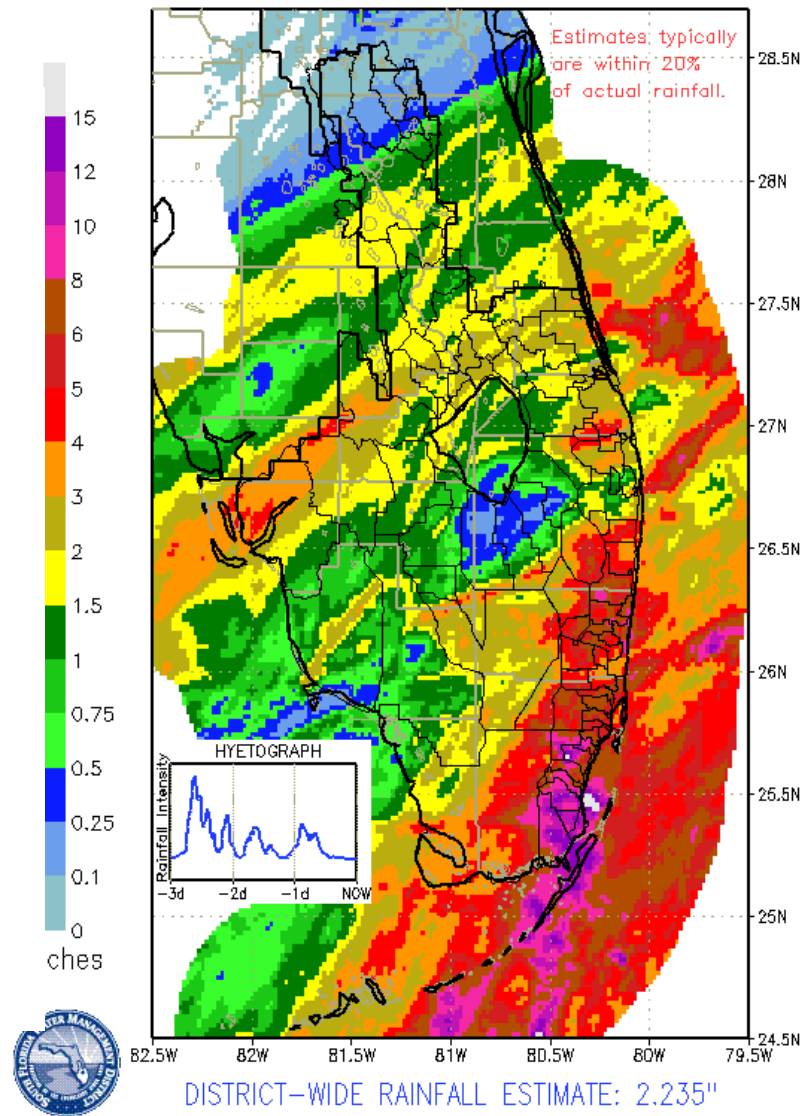
# IFAS Study Area



# December 2015 Rainfall Event Characteristics

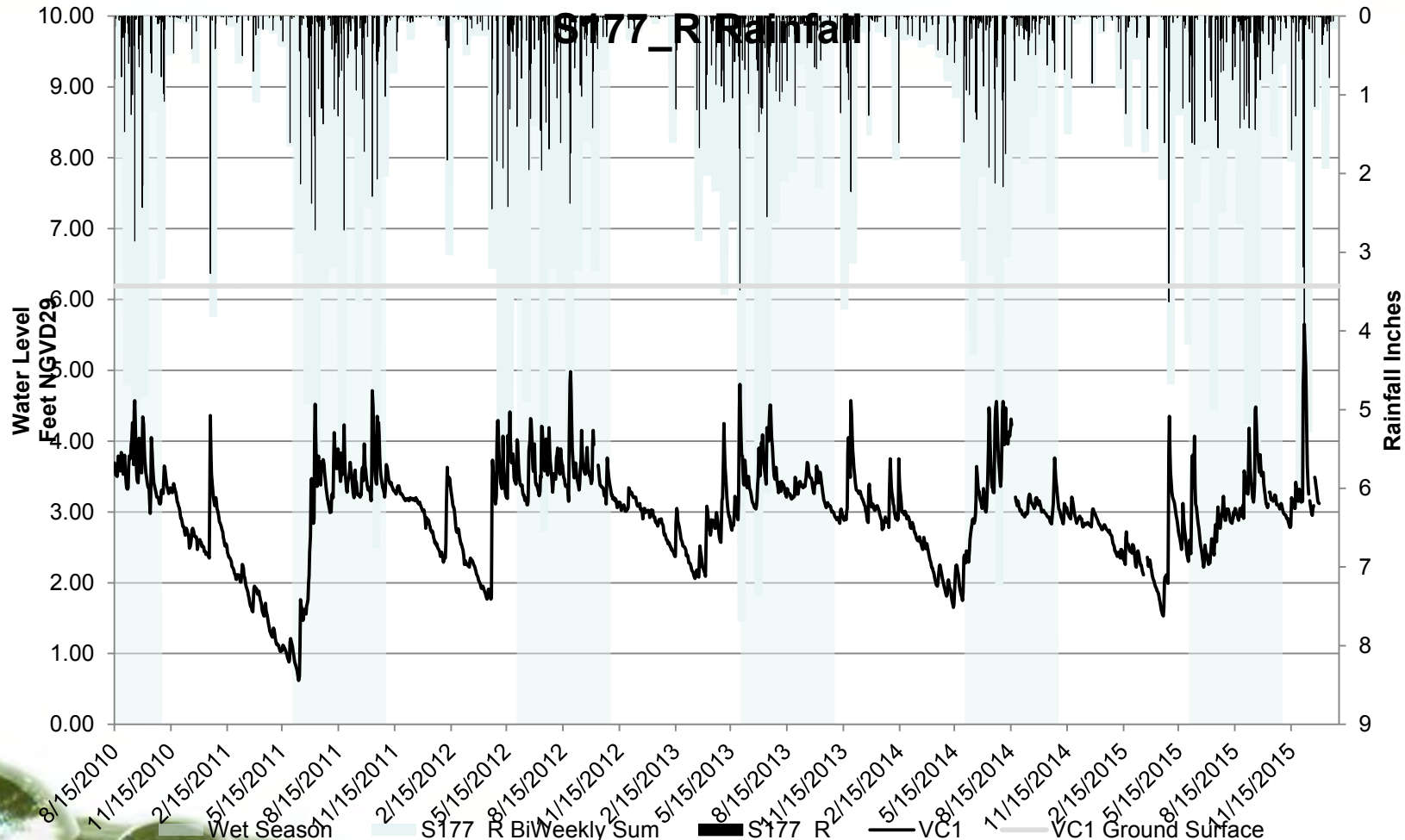
- Most intense rain fell between December 3-5.
- For Miami Dade
  - Wettest 3-day rainfall in the last 15 years (wet or dry season)
  - Wetter than Tropical Storm Gordon (Nov 1994) or Hurricane Katrina (Aug 2005)
- While all basins along the east coast affected, heaviest rains in south Miami-Dade, C-111 and C-103 basins

SFWMD PROVISIONAL RAINDAR 3-DAY RAINFALL ESTIMATES  
FROM: 1015 EST, 12/03/2015 THROUGH: 1015 EST, 12/06/2015



# IFAS Groundwater Well Monitoring

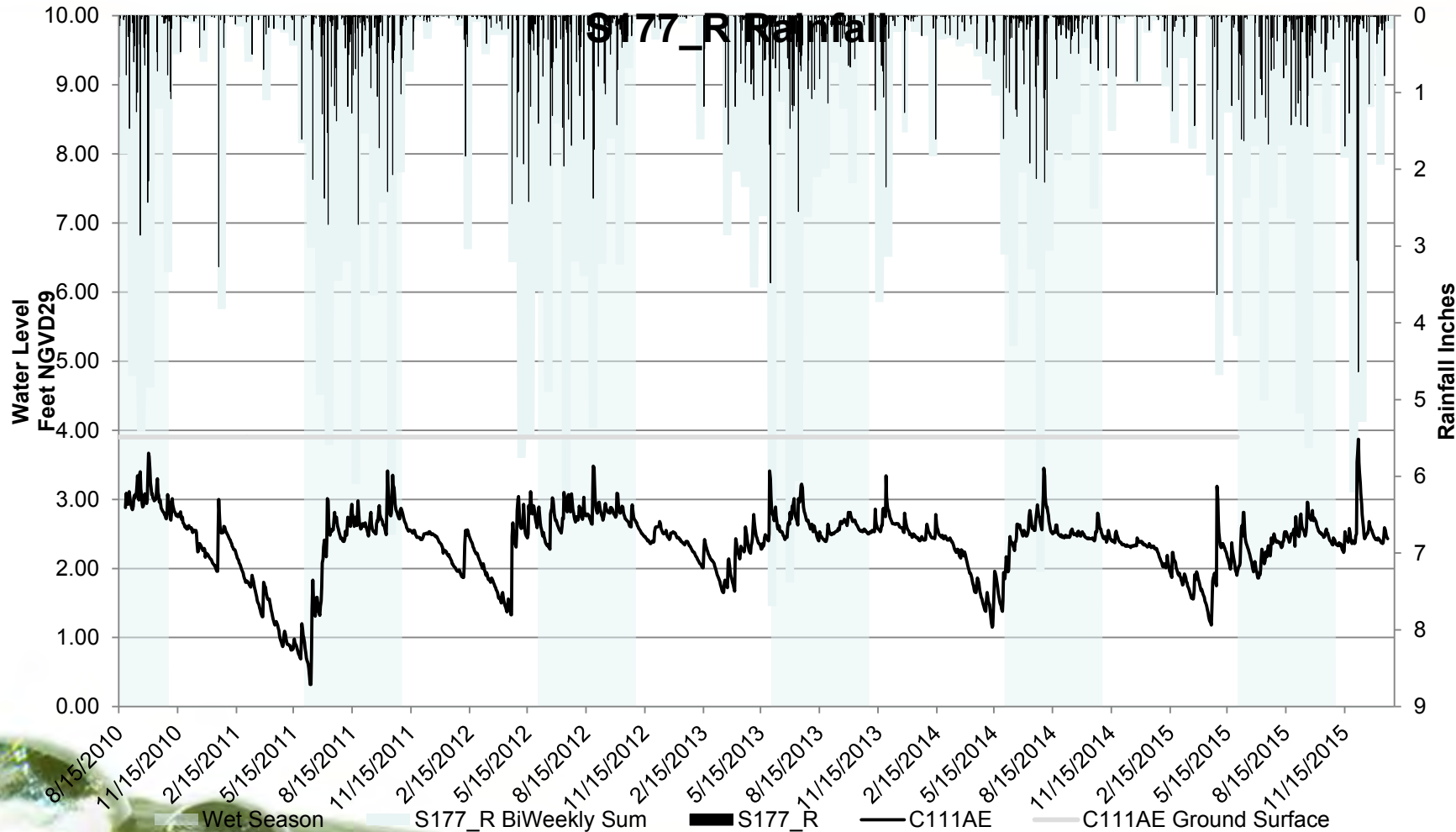
## VC1 Groundwater Level



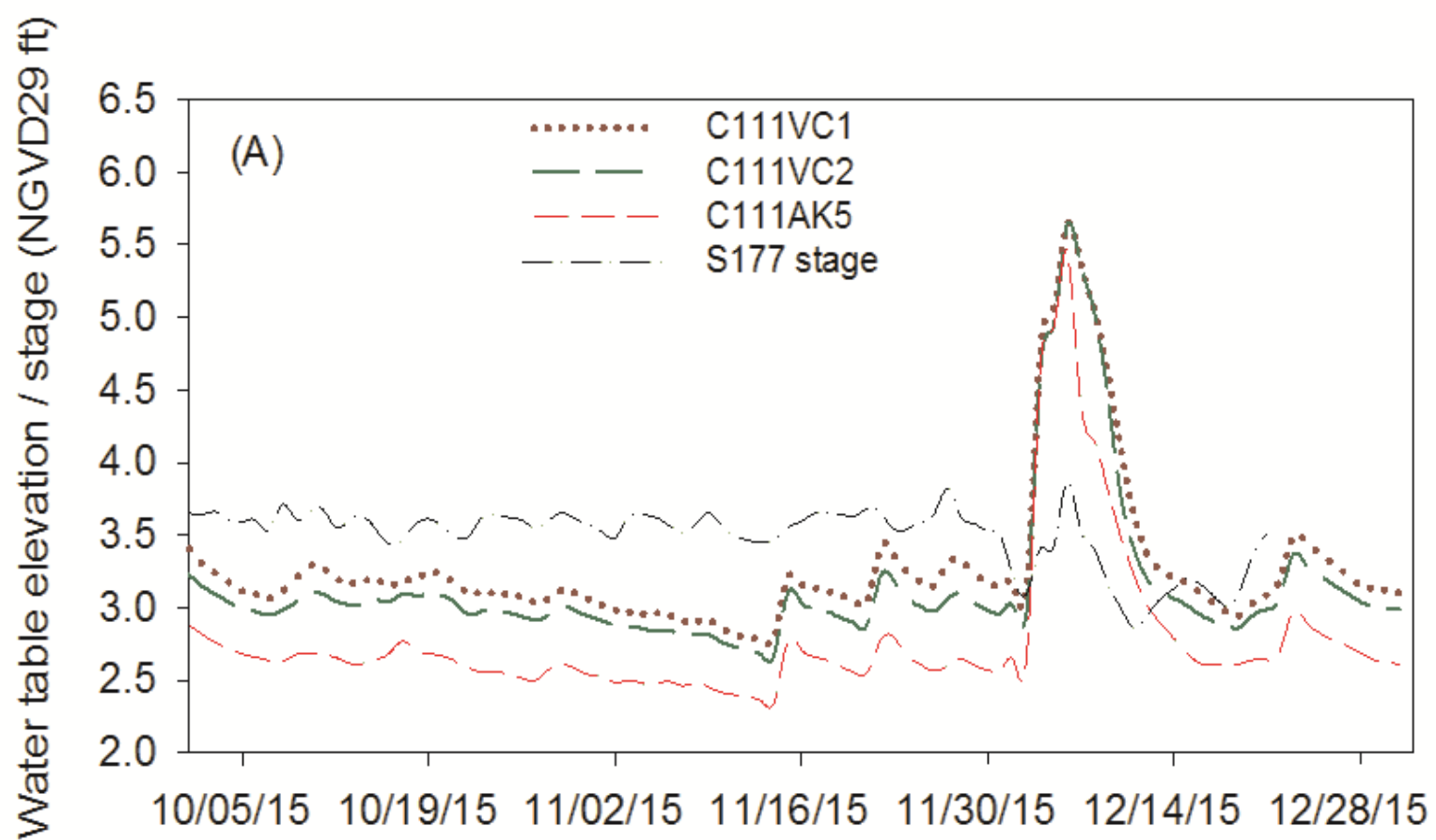


# IFAS Groundwater Well Monitoring

## C111AE Groundwater Level

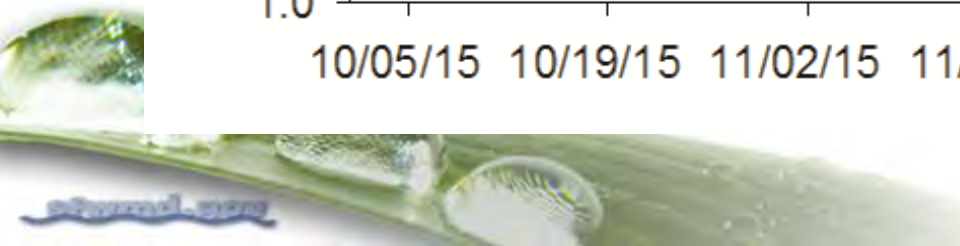
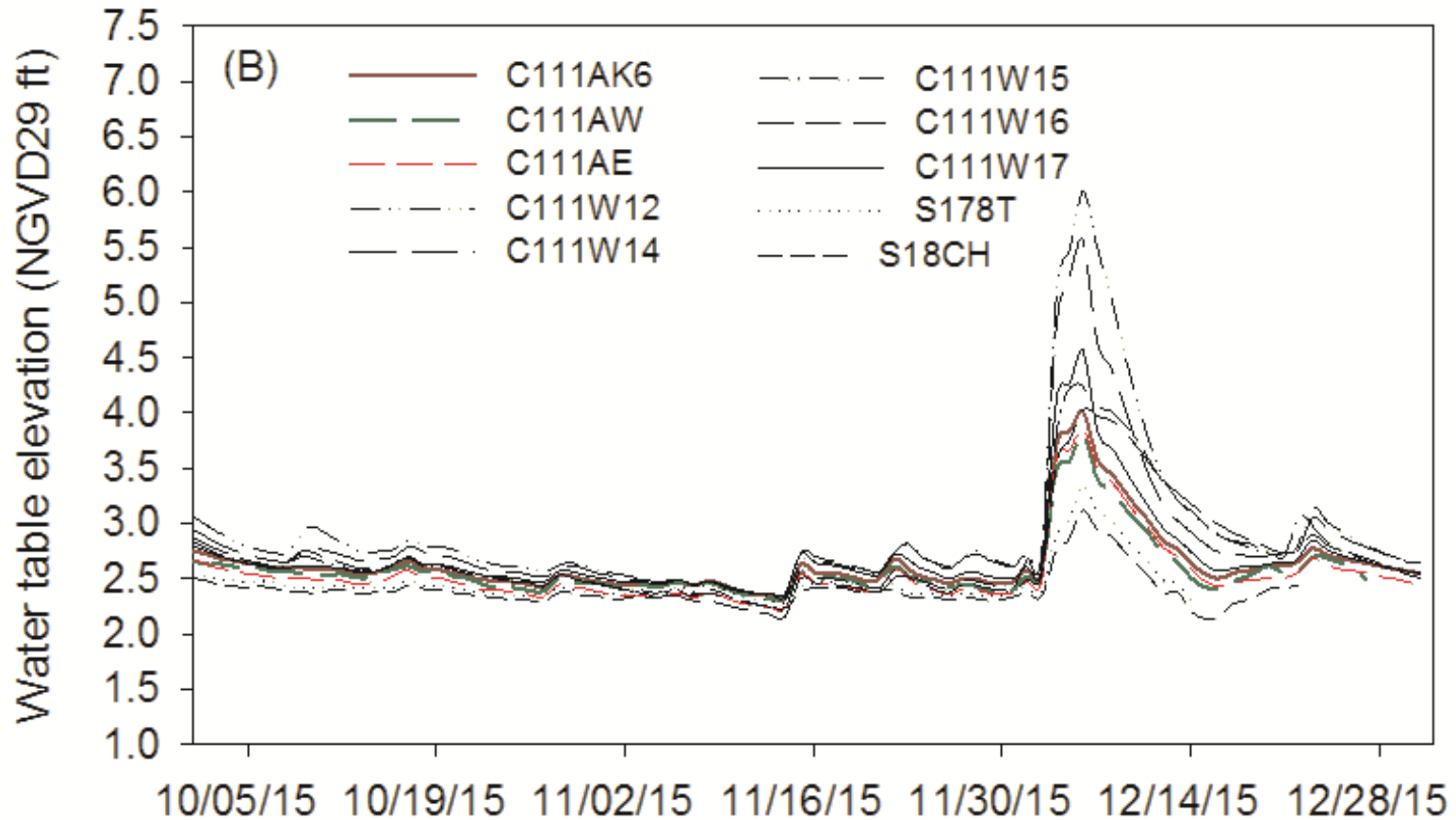


# IFAS Wells North of Ingraham Hwy (S-178)



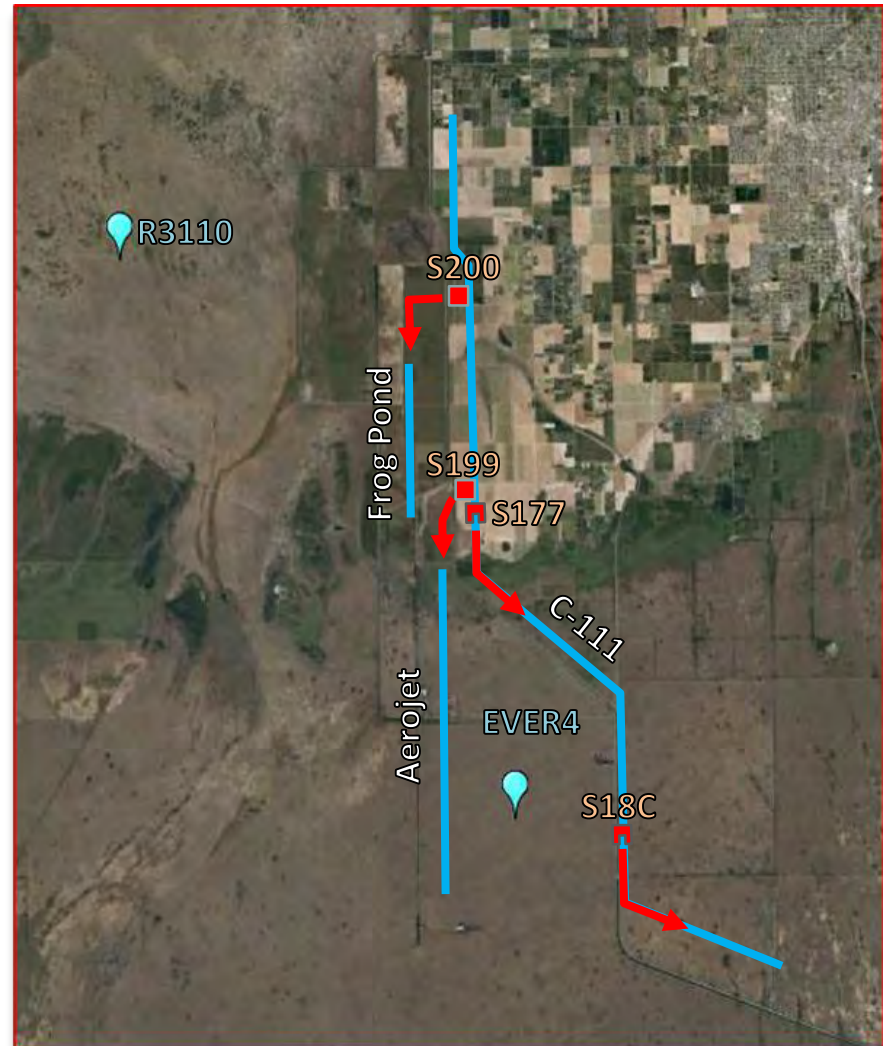
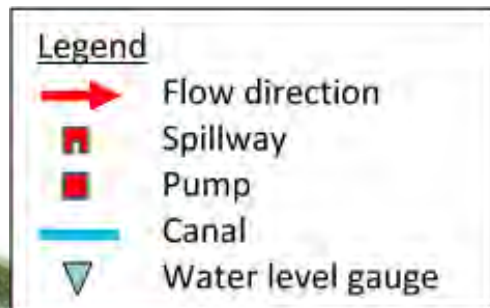


# IFAS Wells South and Southeast of Ingraham Hwy (S-178)



# C-111 Spreader Canal Western Project

The intent is to maximize pumping at S200 and S199, i.e., more to the natural system, then minimize use of S177 to maintain drainage.



# What's Next

- Intent is to operate all six pumps at S199 and S200 prior to reaching S177HW open criteria. Revision of project operating plan is under review.
- Continuing reassessing pre-storm drawdown descriptions and how operated historically for S176, S177 as a tool to guide event-based decisions
- Automation of S197 is under consideration. Presented to Project and Lands Committee and added to Operations and Maintenance's Capital Projects list, where it will be ranked and prioritized.





# South Dade Investigation

- Series of workshops. Next one is February 2, 2016
- Improve understanding of the water resource management objectives, opportunities and challenges in this area.
- A list of potential operational and infrastructure options
  - demonstrated their ability to provide relief to flooded agricultural lands
  - while retaining water in or delivering water to Everglades National Park, Florida Bay and other natural systems.



# Questions and Discussion



12/05/2015 14:23

