Farms drainage and Rainfall detention

Why?
Farms drainage and Rainfall detention

The congress approved the clean water act (CWA) in 1972

A total maximum daily load (TMDL) of pollutants must be established to ensure that water quality standards
Farms drainage and Rainfall detention

“When”? 
When can we start pumping?
Farms drainage and Rainfall detention

- 1 Inch  (Most farms)
- \( \frac{1}{2} \) Inch  (Some farms)
Farms drainage and Rainfall detention

- ✓ 1 Inch  (Most farms)
- ✓ ½ Inch  (Some farms)
Farms drainage and Rainfall detention

☑️ Named storm approaching
Farms drainage and Rainfall detention

✓ Start elevation reached
Farms drainage and Rainfall detention

✔ Land Prep
Farms drainage and Rainfall detention

✔ Planting
Farms drainage and Rainfall detention

✓ Harvest
Farms drainage and Rainfall detention

“How”?
Farms drainage and Rainfall detention

How to pump?
Farms drainage and Rainfall detention

How to pump?

1. Implementing a pumping protocol
Farms drainage and Rainfall detention

How to pump?

2. Monitoring the flow of water
Farms drainage and Rainfall detention

How to pump?

3. Monitoring the quality of water
Farms drainage and Rainfall detention

How to pump?

4. Filing data (PumpLogs)
Farms drainage and Rainfall detention

Important
Farms drainage and Rainfall detention

When We MUST stop?
When We MUST stop?

All pumping stations have a “Stop Elevation"

Pumping should stop once the “Stop Elevation” has been reached
How does the South Florida Water Management District evaluate our pumping?
Farms drainage and Rainfall detention

Why is it important **not** to pump beyond the “Stop Elevation”?
Farms drainage and Rainfall detention

Why is it important not to pump beyond the “Stop Elevation”?
Farms drainage and Rainfall detention

Let's practice what we have learned.
Farms drainage and Rainfall detention

Condition 1

It still does not rain but we have a lot of seepage.

Can we pump?
Condition 1

It still does not rain but we have a lot of seepage.

No

Unless we reach the “Start Elevation”
Farms drainage and Rainfall detention

Condition 2

I have pumped for 24 hours after 2 inches of rain.

Can I keep pumping?
Farms drainage and Rainfall detention

Condition 2

I have pumped for 24 hours after 2 inches of rain.

Yes

As long as the level is above the “stop elevation”.
Farms drainage and Rainfall detention

Condition 3

It rained 1 inch this morning

Can we pump?
Condition 3

It rained 1 inch this morning

Yes
We can pump after 1 inch of rain
Condition 4

It rains 1 inch in 72 hrs.

Can we pump?
Condition 4

It rains 1 inch in 72 hrs.

No

Unless we reach the “Start Elevation”
Condition 5

There is a storm warning for WPB

Can we pump?
Farms drainage and Rainfall detention

Condition 5

There is a storm warning for WPB

Yes

As long as it is a named storm