



Northern Tampa Bay LTPRG  
2004 MFL Assessment  
July 20, 2005

# Minimum Flows and Levels

- In 1998 – the District adopted 41 cypress wetlands, 15 lakes, and 7 Floridan aquifer wells as minimum level sites
- Since then, we've added 43 additional lakes (58 total)
- One river adopted – Lower Hillsborough
- The plan for further MFL adoption is revised and approved each year

# Assessment of MFLs

- Long-term median for lakes and wetlands
- Long-term average for seawater intrusion wells
- Lakes, wetlands and wells assessed for 6- and 10-year periods for the ending years 1999-2004

# Lakes – 2004 Results

## 10-year

- 18 lakes meeting minimum level (7 that were not meeting their levels in 2003)
- 36 lakes not meeting minimum level (all not meeting their levels in 2003)
- 4 lakes without enough data to determine

# Lakes – 2004 Results

## 10-year (cont.)

- 37 lakes meeting high minimum level
- 20 not meeting high minimum level
- 1 without enough data to determine

# Lakes – 2004 Results

## 10-year

- 18 lakes meeting minimum level (7 that were not meeting their levels in 2003)
- 36 lakes not meeting minimum level (all not meeting their levels in 2003)
- 4 lakes without enough data to determine

# Lakes – 2004 Results

## 6-year

- 10 lakes meeting minimum level (all were meeting their levels in 2003)
- 47 lakes not meeting minimum level (all not meeting their levels in 2003)
- 1 lake without enough data to determine

# Lakes – 2004 Results

## 2-year \*

- 53 lakes above minimum level elevation \*
- 5 lakes below minimum level elevation \*

\* Two years is not enough data to do a minimum level determination

# Wetlands – 2004 Results

## 10-year

- 12 wetlands meeting minimum level (all were meeting their levels in 2003, or didn't have enough data in 2003)
- 13 wetlands not meeting minimum level (all not meeting their levels in 2003, or didn't have enough data in 2003)
- 16 wetlands without enough data to determine

# Wetlands – 2004 Results

## 6-year

- 9 wetlands meeting minimum level (all were meeting their levels, or didn't have enough data in 2003)
- 23 wetlands not meeting minimum level (all not meeting their levels or didn't have enough data in 2003)
- 9 wetlands without enough data to determine

# Wetlands – 2004 Results

## 2-year \*

- 39 wetlands above minimum level elevation \*
- 1 wetland below minimum level elevation \*
- 1 wetland with not enough data \*

\* Two years is not enough data to do a minimum level determination

# MFL Wells – 2004 Results

## 10-year

- 6 wells meeting minimum level (one was not meeting its level in 2003 – RMP-13D)
- 1 well not meeting minimum level (not meeting its level in 2003 – RMP-8D)

# MFL Wells – 2004 Results

## 6-year

- 6 wells meeting minimum level (one was not meeting its level in 2003 – RMP-13D)
- 1 well not meeting minimum level (not meeting its level in 2003 – RMP-8D)

# MFL Wells – 2004 Results

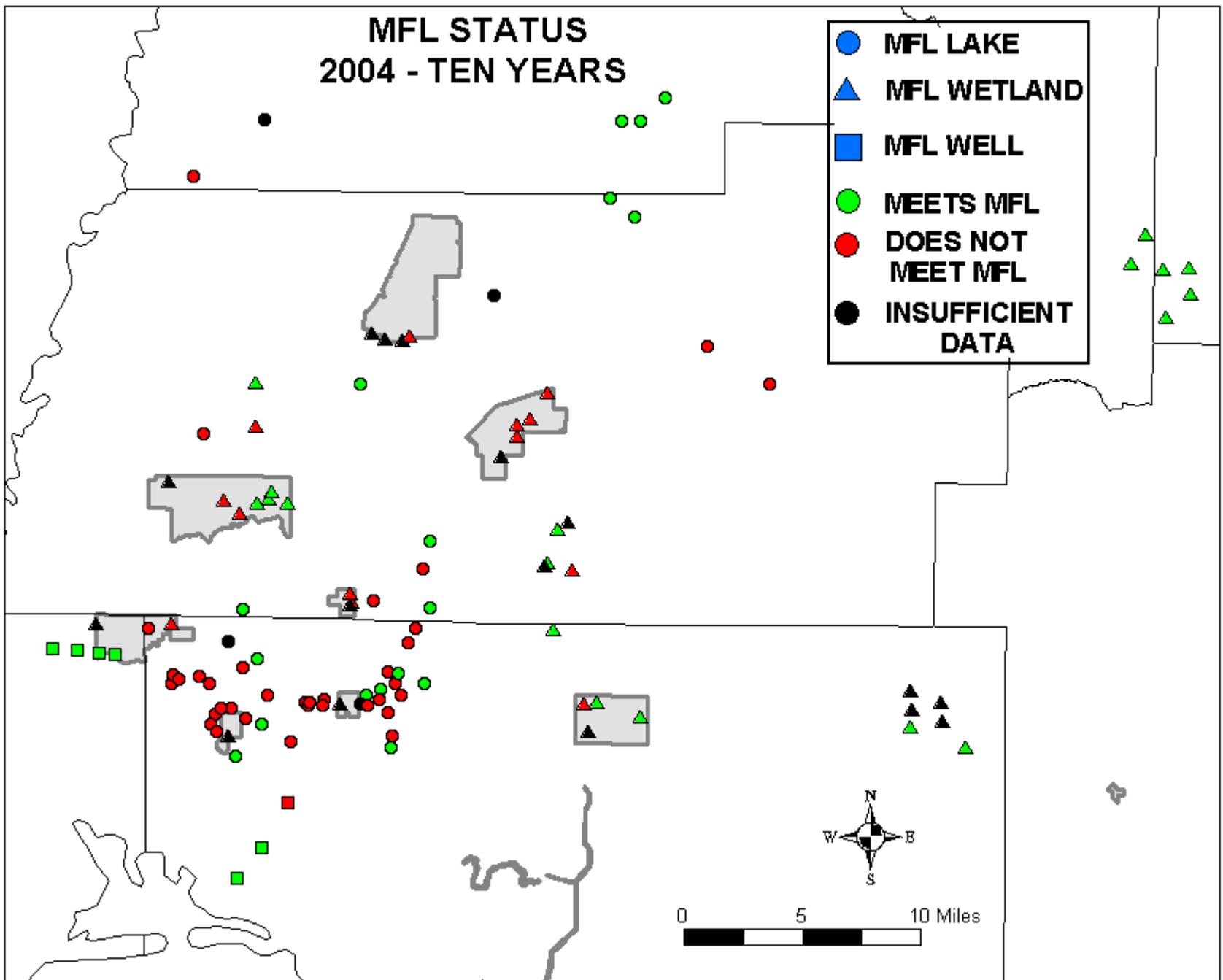
## 2-year \*

- All wells above minimum level elevation \*

\* Two years is not enough data to do a minimum level determination

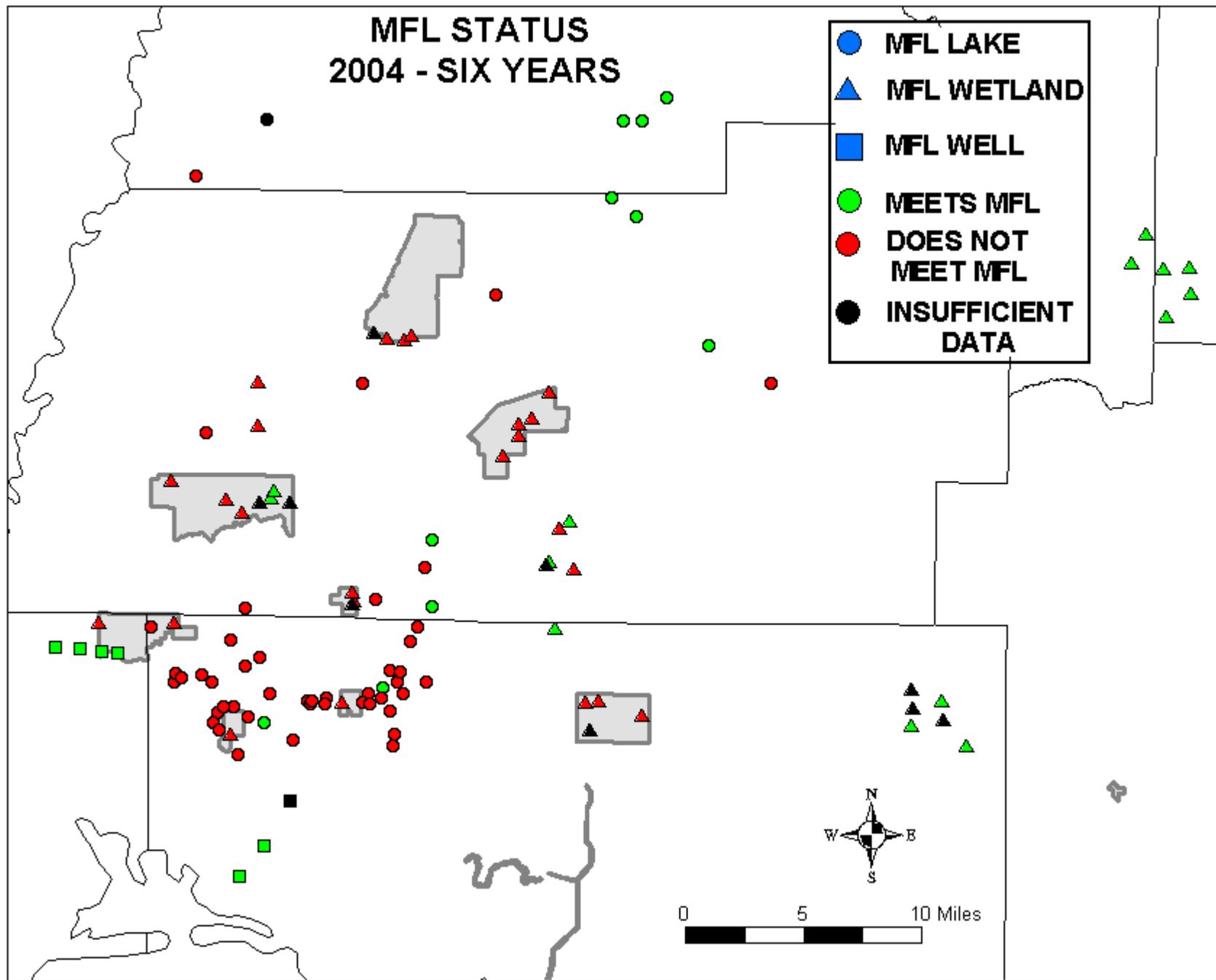
# MFL STATUS 2004 - TEN YEARS

- MFL LAKE
- ▲ MFL WETLAND
- MFL WELL
- MEETS MFL
- DOES NOT MEET MFL
- INSUFFICIENT DATA



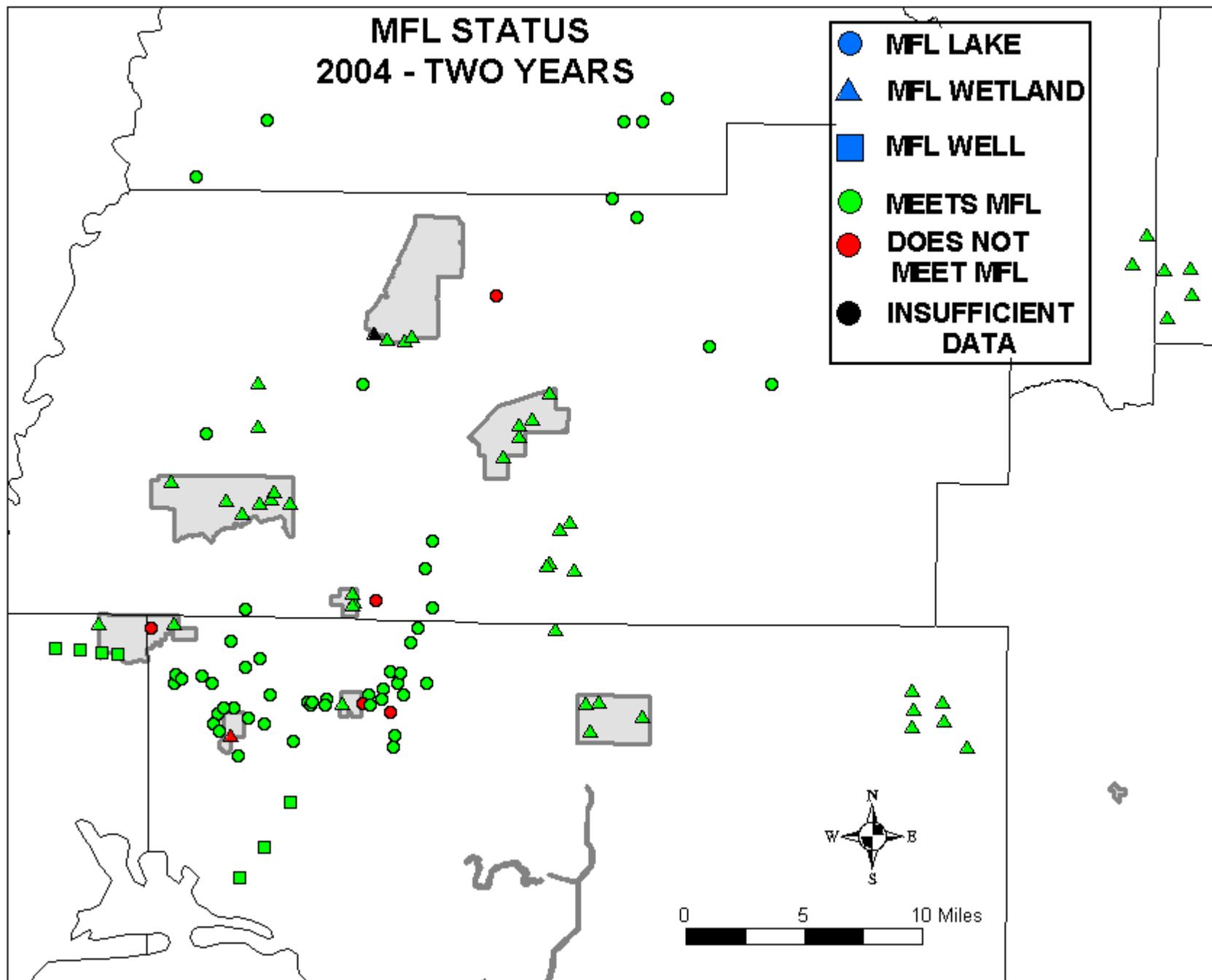
# MFL STATUS 2004 - SIX YEARS

- MFL LAKE
- ▲ MFL WETLAND
- MFL WELL
- MEETS MFL
- DOES NOT MEET MFL
- INSUFFICIENT DATA



# MFL STATUS 2004 - TWO YEARS

- MFL LAKE
- ▲ MFL WETLAND
- MFL WELL
- MEETS MFL
- DOES NOT MEET MFL
- INSUFFICIENT DATA



# MFL Site Evaluations

- Since 1998, staff has continued to evaluate, collect data, install additional instrumentation, and maintain instrumentation at all sites
- Wetlands are particularly complicated due to multiple instrumentation needs, maintenance, remoteness, etc.
- In many wetlands, issues include survey discrepancies, access issues, development effects, and reconsideration of site status.

# 2004 Assessment of Recovery Levels

- Recovery Levels meant to serve as guidelines as to what the Floridan aquifer levels would be at 90 mgd, based on the District's recovery assessment
- 40 original wells – 2 since destroyed
- Based on long-term average

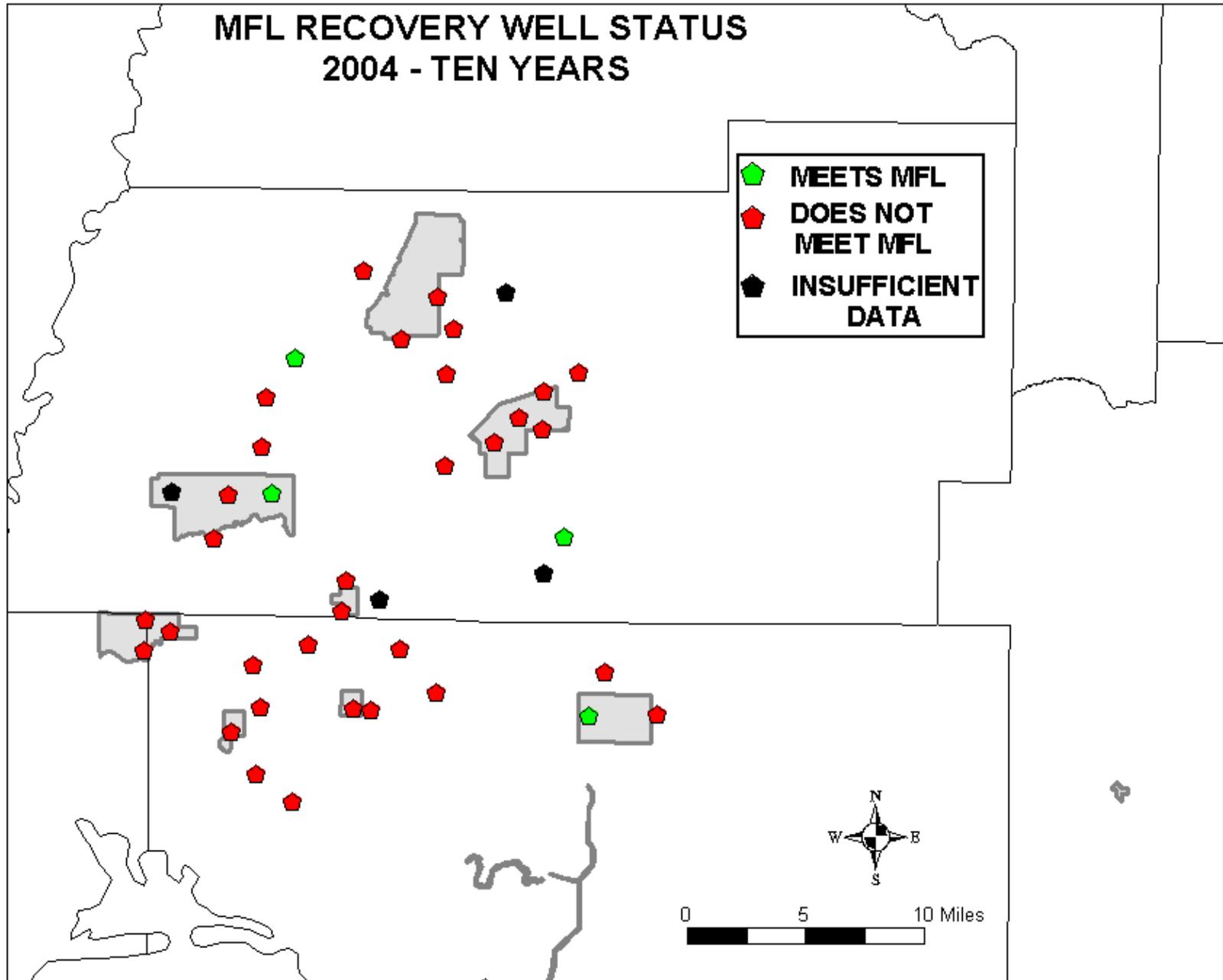
# Recovery Wells – 2004

## Results - 10-year

- 4 wells meeting recovery level (all were meeting their recovery levels in 2003)
- 32 wells not meeting recovery level (all were not meeting their recovery levels in 2003)
- 2 wells without enough data

# MFL RECOVERY WELL STATUS 2004 - TEN YEARS

-  **MEETS MFL**
-  **DOES NOT MEET MFL**
-  **INSUFFICIENT DATA**



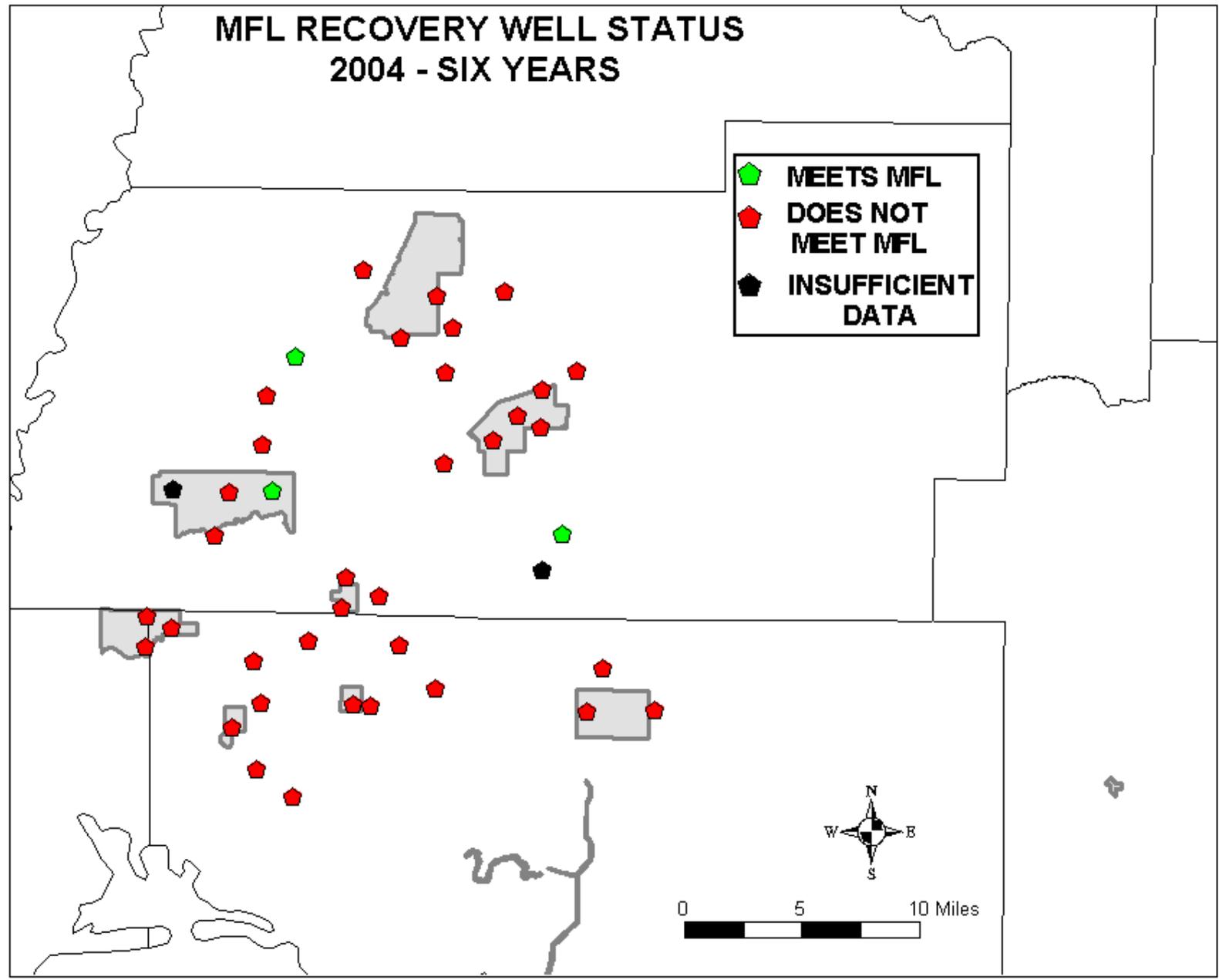
# Recovery Wells – 2004

## Results - 6-year

- 3 wells meeting recovery level (one was not meeting its level in 2003 – PZ-3)
- 35 wells not meeting recovery level (all not meeting their level in 2003)

# MFL RECOVERY WELL STATUS 2004 - SIX YEARS

-  **MEETS MFL**
-  **DOES NOT MEET MFL**
-  **INSUFFICIENT DATA**



# Recovery Wells – 2004

## Results - 2-year

- 35 wells above recovery level elevation
- 3 wells below recovery level elevation (Cosme 3, James 11, MW1)

\* Two years is not enough data to do a recovery level determination

# MFL RECOVERY WELL STATUS 2004 - TWO YEARS

	<b>MEETS MFL</b>
	<b>DOES NOT MEET MFL</b>
	<b>INSUFFICIENT DATA</b>

