



# Governing Board Workshop Item 10

## Everglades Agricultural Area (EAA) and C-139 Basin Compliance Annual Update



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Everglades Regulation Division  
August 13, 2008*

# **Everglades Forever Act Mandated**

- **Water Quality Improvement Program**
- **All Areas Discharging to the Everglades**
- **Everglades Construction Project (ECP)**
  - **Regulation – Best Management Practices (BMPs) at the Source**
  - **Construction – Stormwater Treatment Areas (STAs) for downstream treatment**
  - **Research – BMP and STA Research for Optimization**

# Everglades Construction Project

Source Control

BMPs



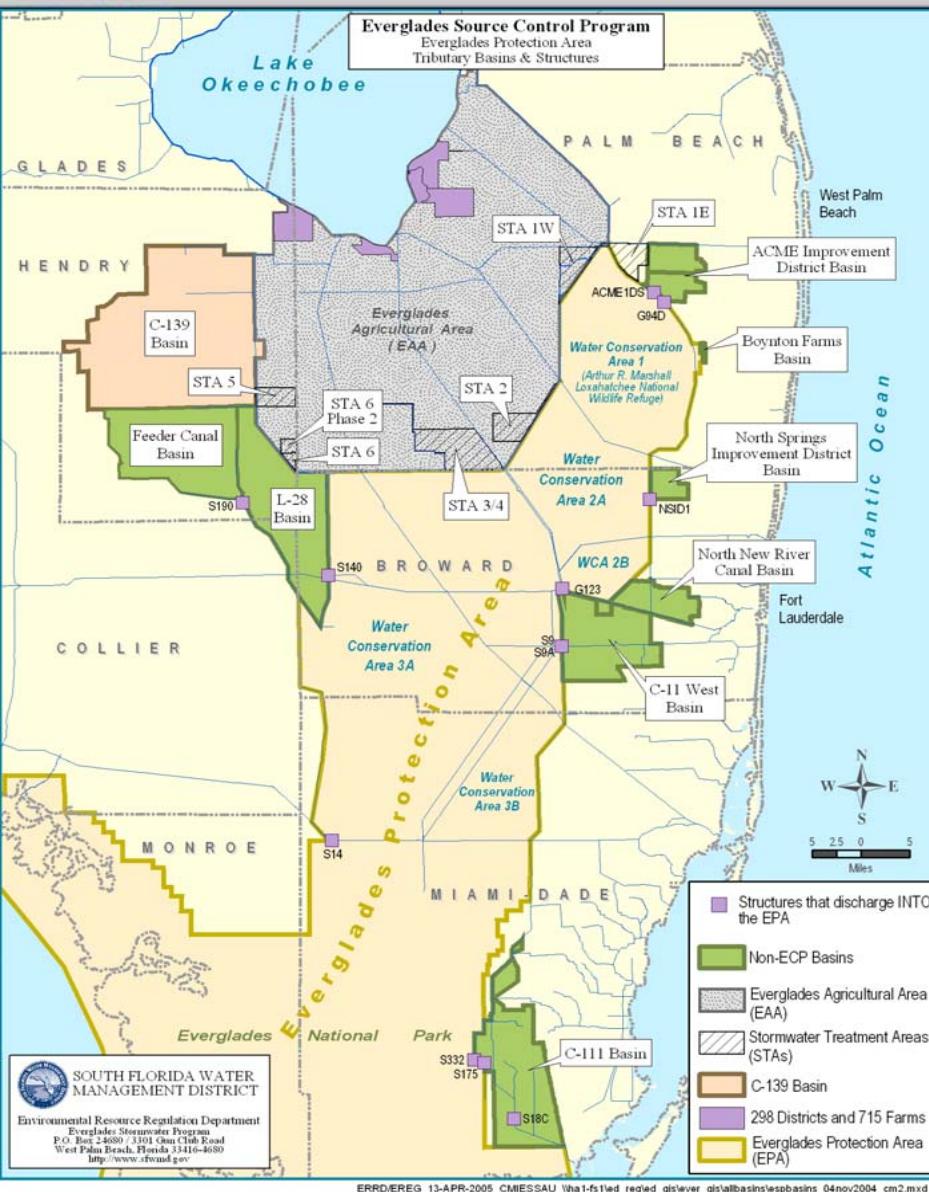
Wetland Treatment

STAs



Everglades

# Tributary Basins to the Everglades

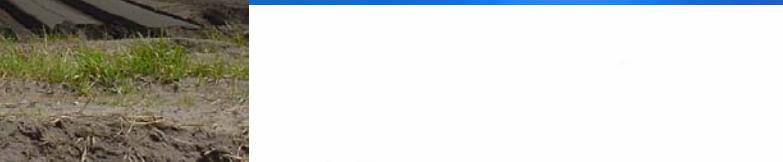


## ■ Everglades Construction Project (ECP) Basins:

- **EAA - Everglades Agricultural Area**
- **C-139**
- **Largest contributing areas to the Everglades**

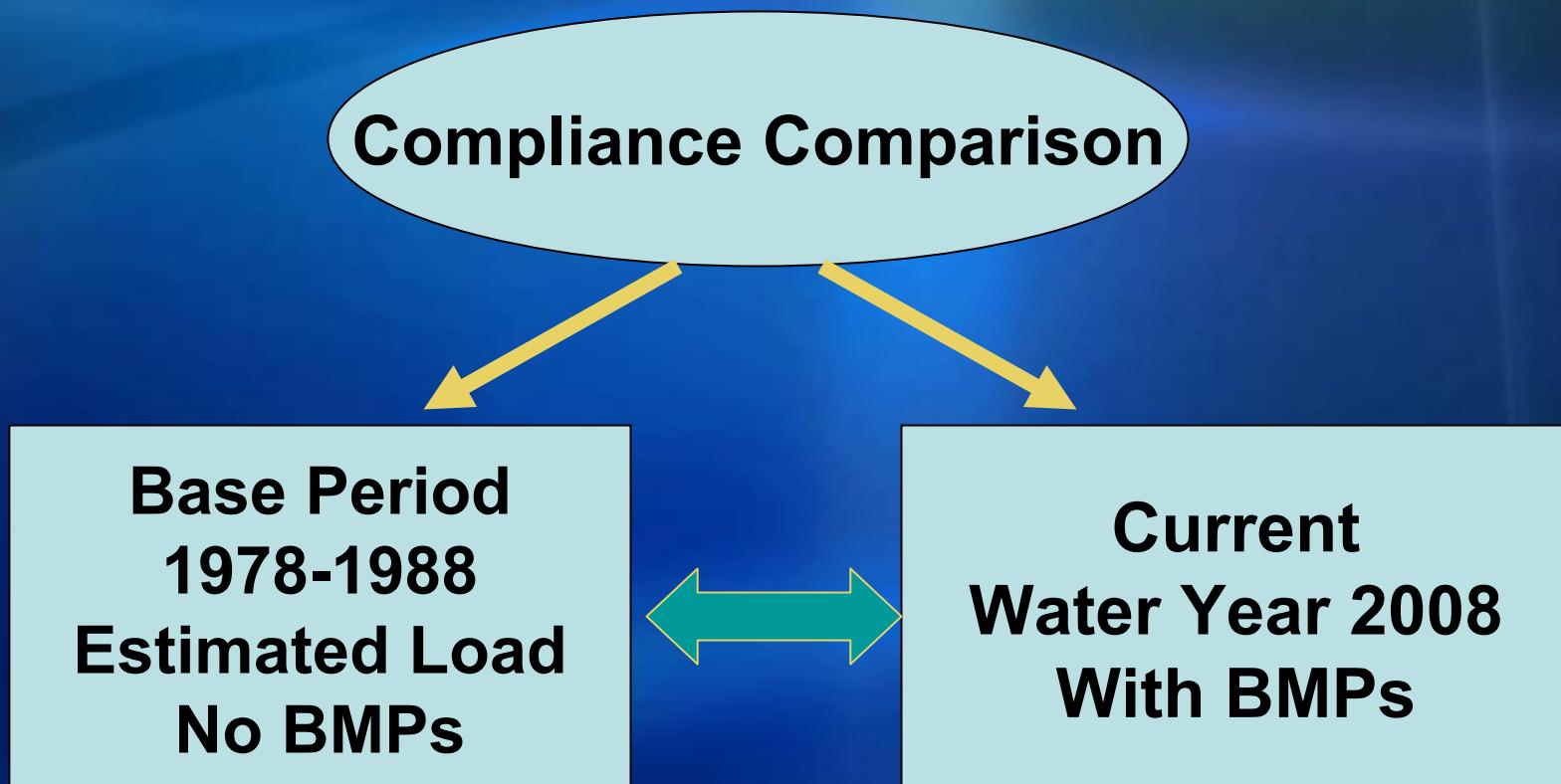
# Everglades Regulatory BMP Program

Permits for  
Comprehensive BMP Plans



# Compliance Methodology

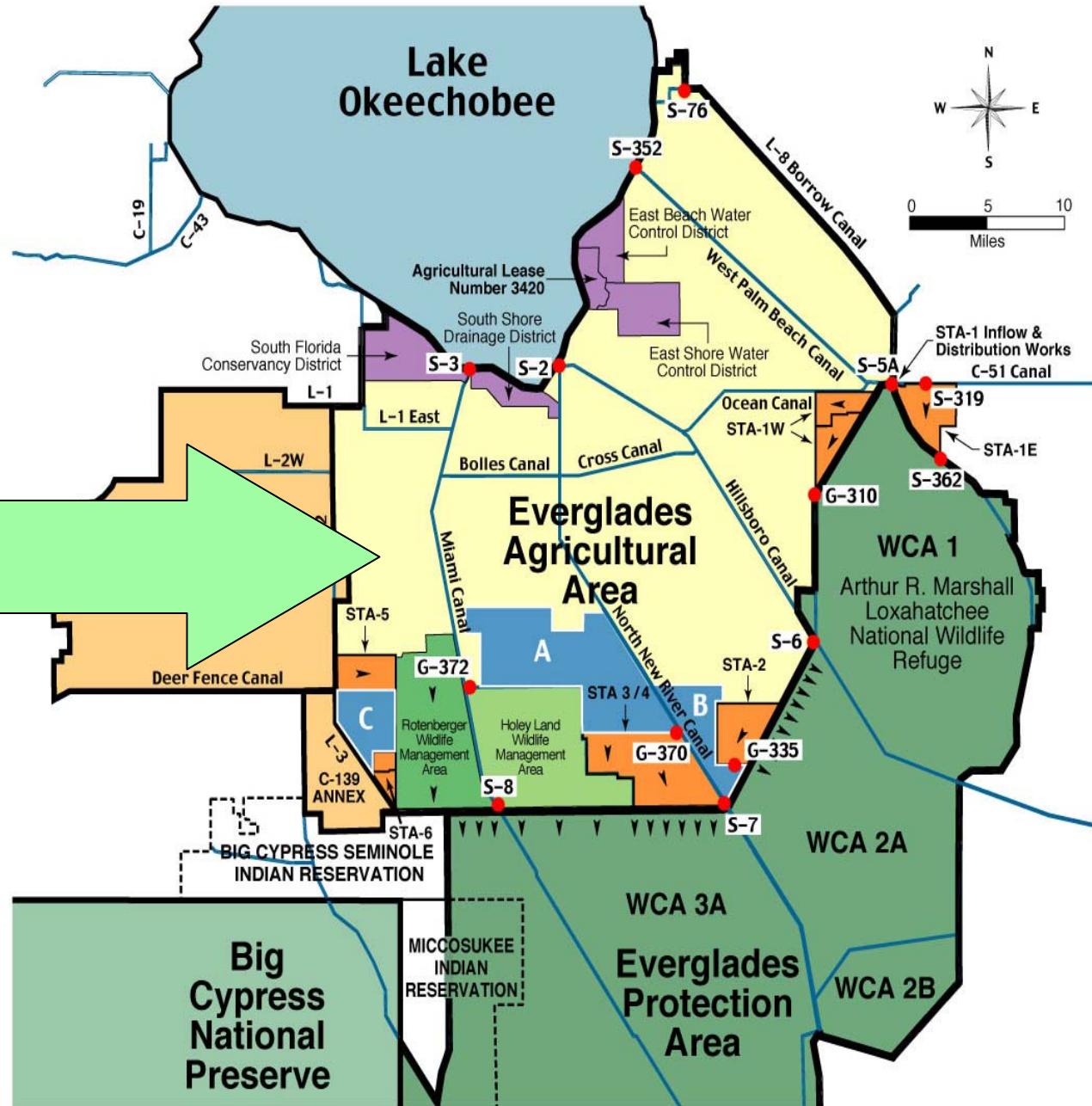
- Performance Goals Basin-Wide



# BMP Program Compliance

- **Water Quality Performance Measure**
  - EAA Basin: 25% Reduction
  - C-139 Basin: Maintain Historic Levels

EAA



# Everglades Agricultural Area Basin



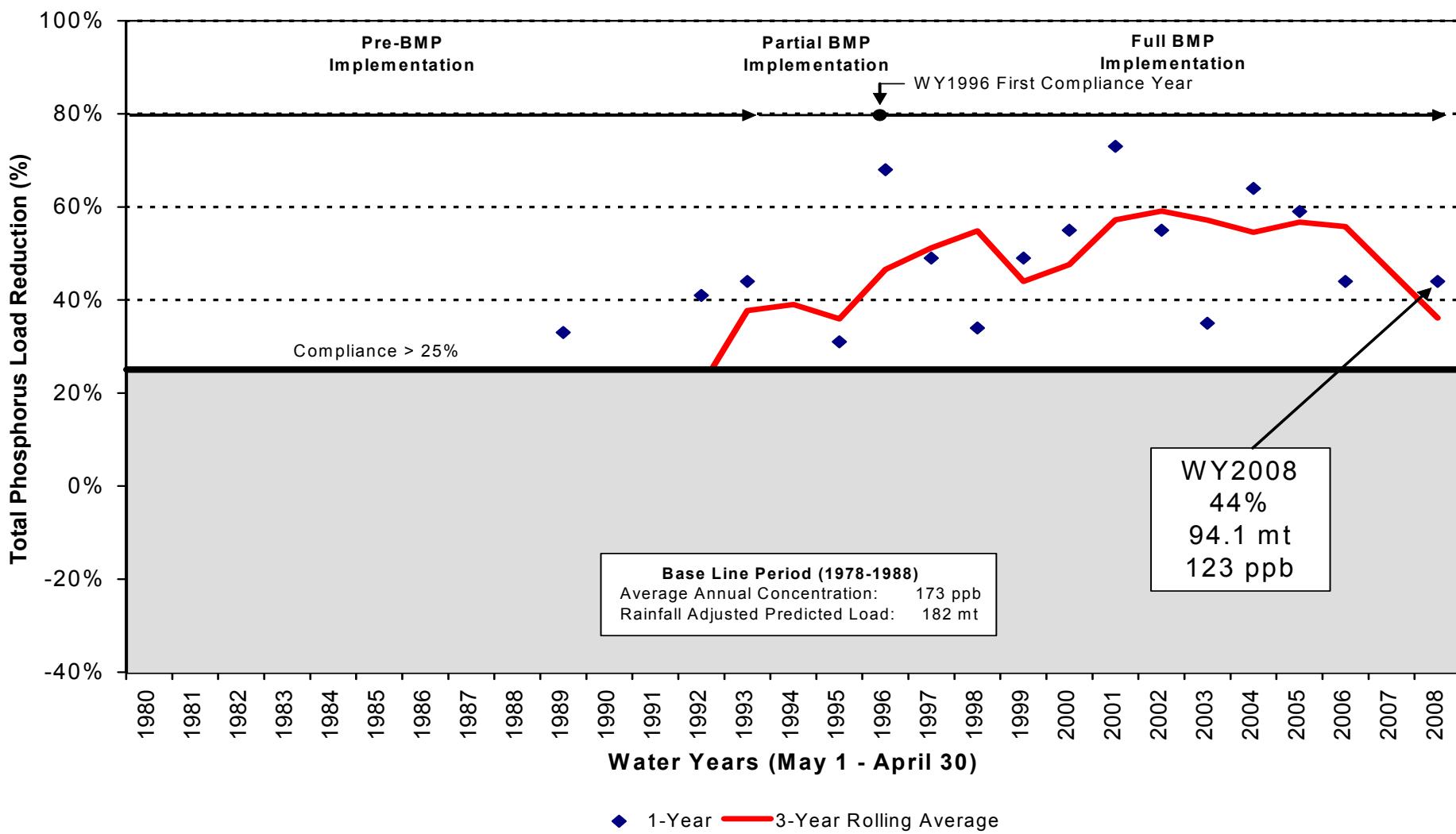
# EAA Basin Load Results

- Goal: 25% Reduction
- WY2008 EAA Achieved 44%
- Observed Load = 94 mtons
- 123 ppb



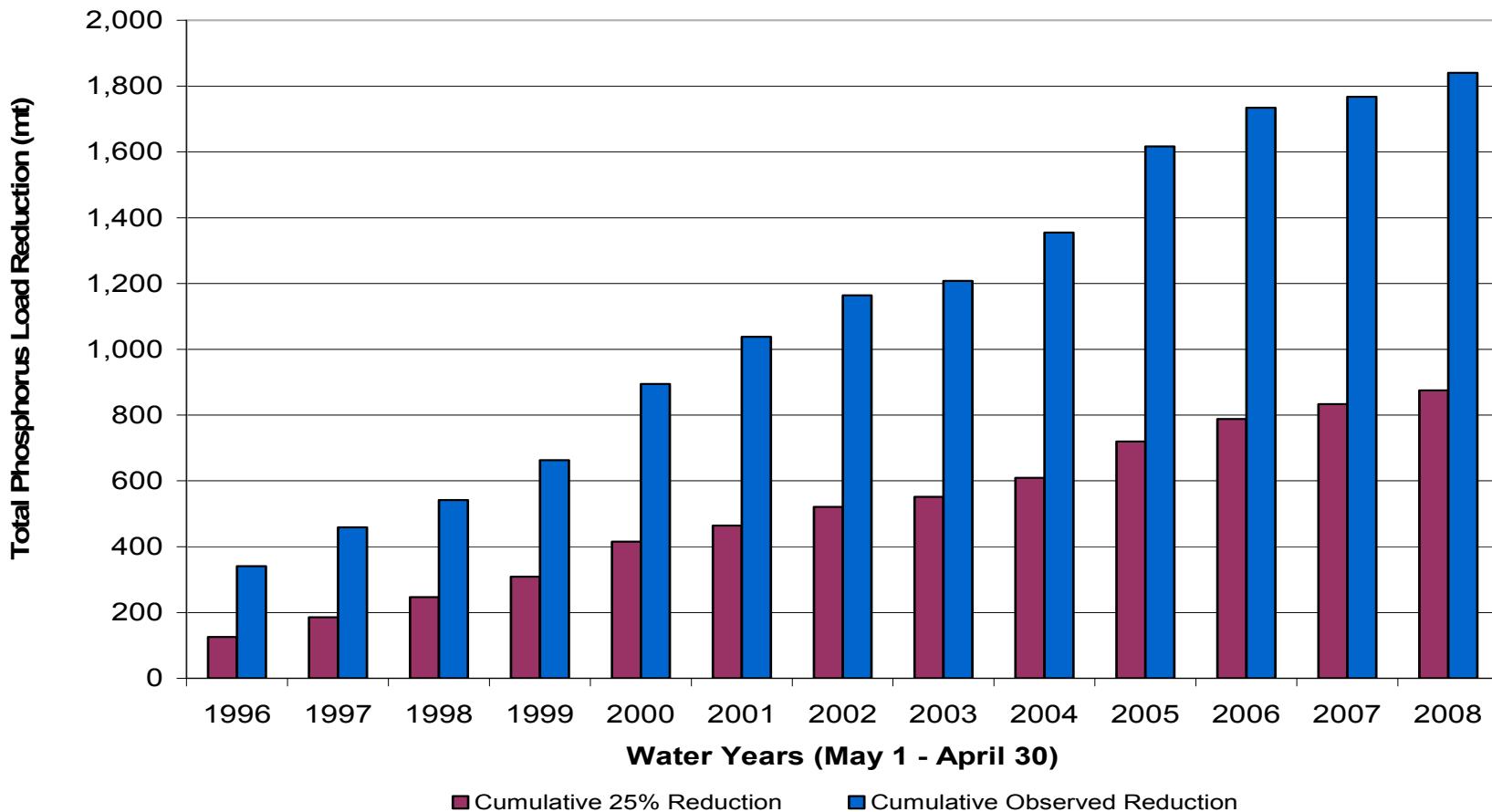
In Compliance

# EAA Basin Performance



# Long-Term Benefits of BMPs

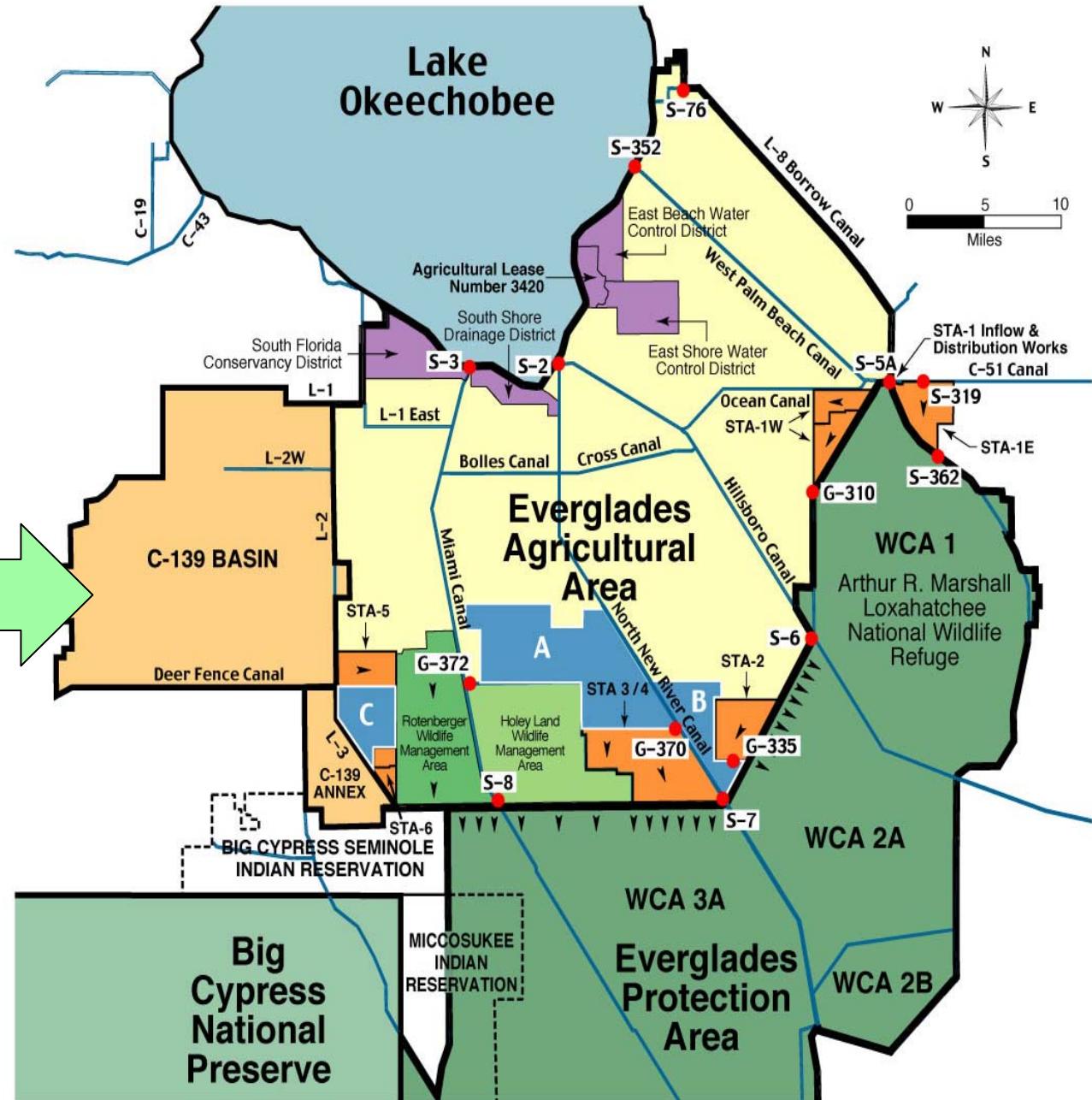
A total reduction of 1841 mtons of P from implementation of BMPs in the EAA.



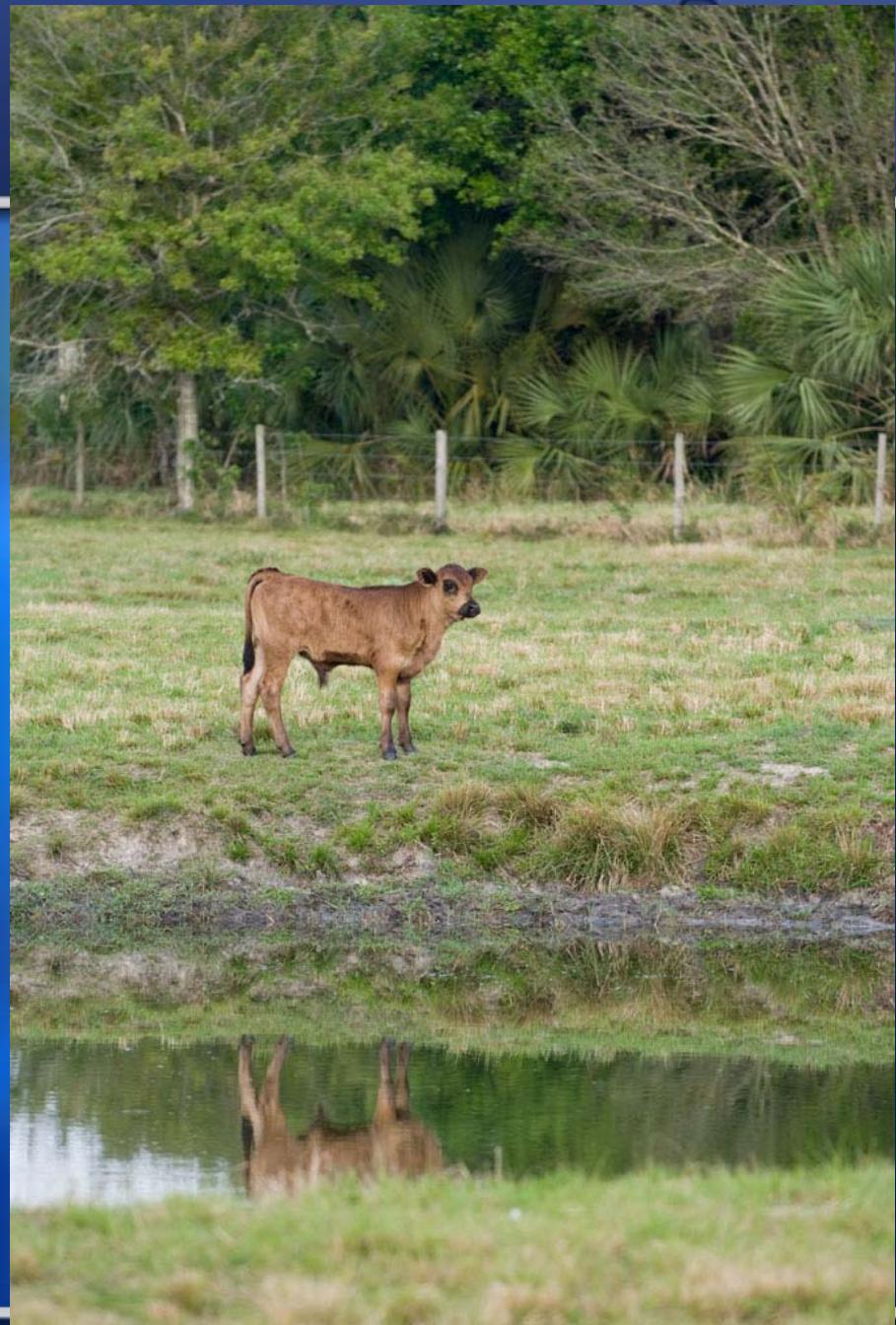
# EAA Basin Activities

- Permit renewals completed – 5 years
- BMP Inspections and Records Review
- EAA Basin Data Evaluation of LOK Impacts
- Area Specific Water Quality Evaluations
- EAA Research Permit

C-139



# C-139 Basin

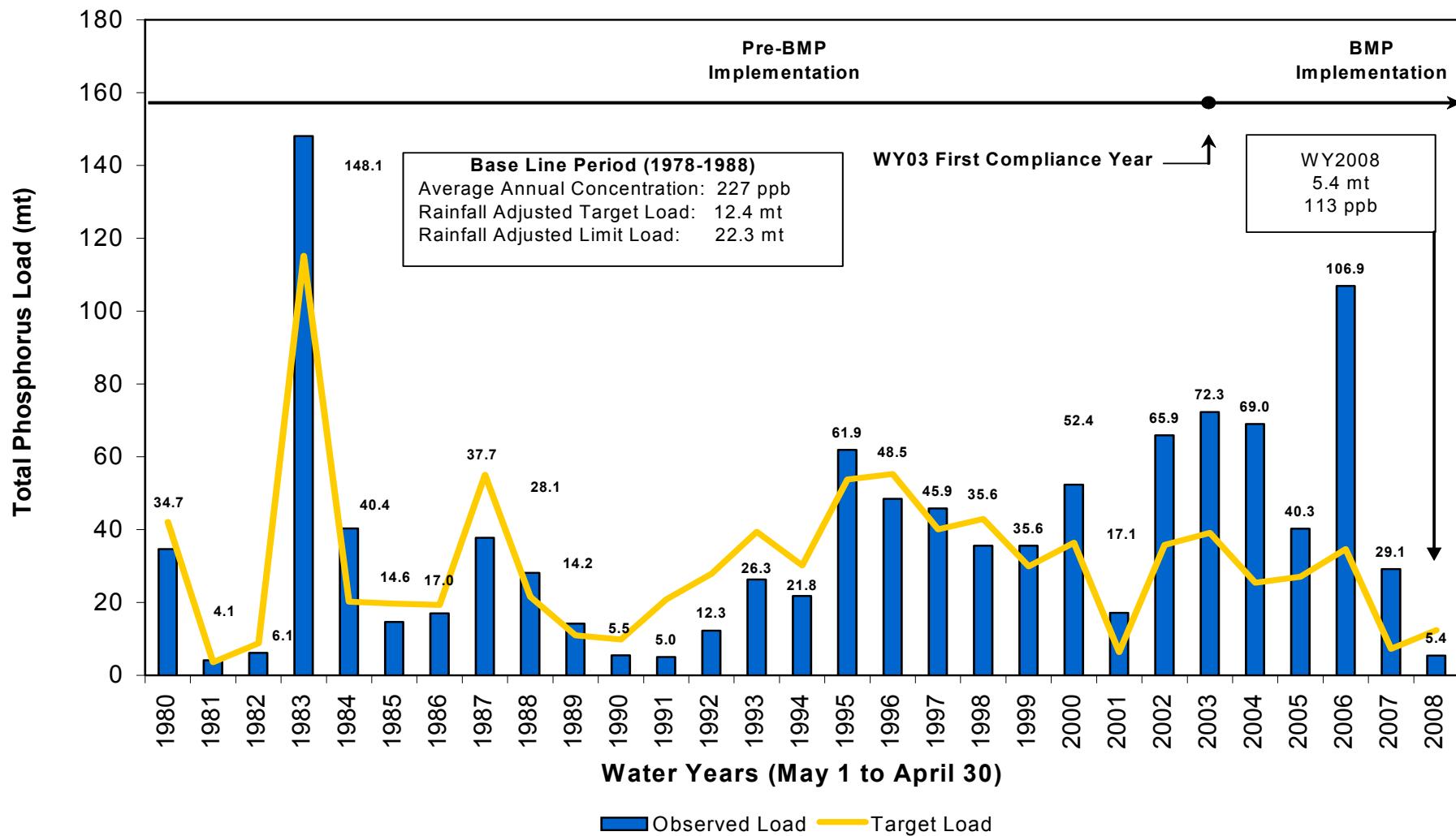


# Water Year 2008 C-139 Basin

- Goal: Maintain Historic Loads
- WY2008 Observed = 5.4 mtons
- Base Period Target = 12.4 mtons
- 113 ppb

✓ In Compliance

# C-139 Basin Performance



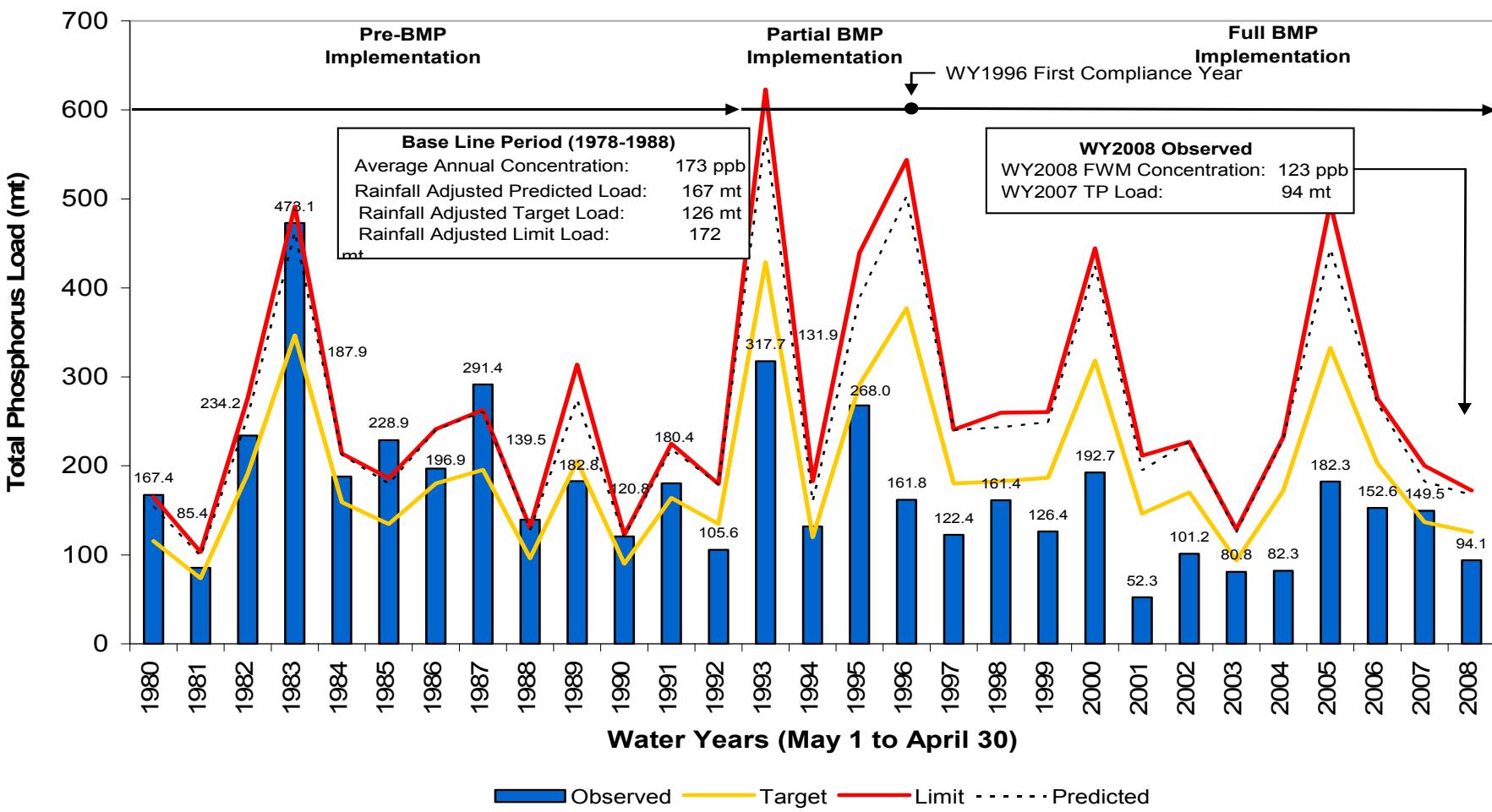
# C-139 Basin Activities

- **Integrated Water Use, Environmental Resource and BMP Permit Compliance Activities**
- **Inspections to Verify BMPs**
- **Rule Development underway**
- **Florida Department of Agriculture and Consumer Services Partnership**
- **Continued data collection**
- **Basin Tailored Demonstration Projects**
- **Initiating C-139 Regional Feasibility Study**

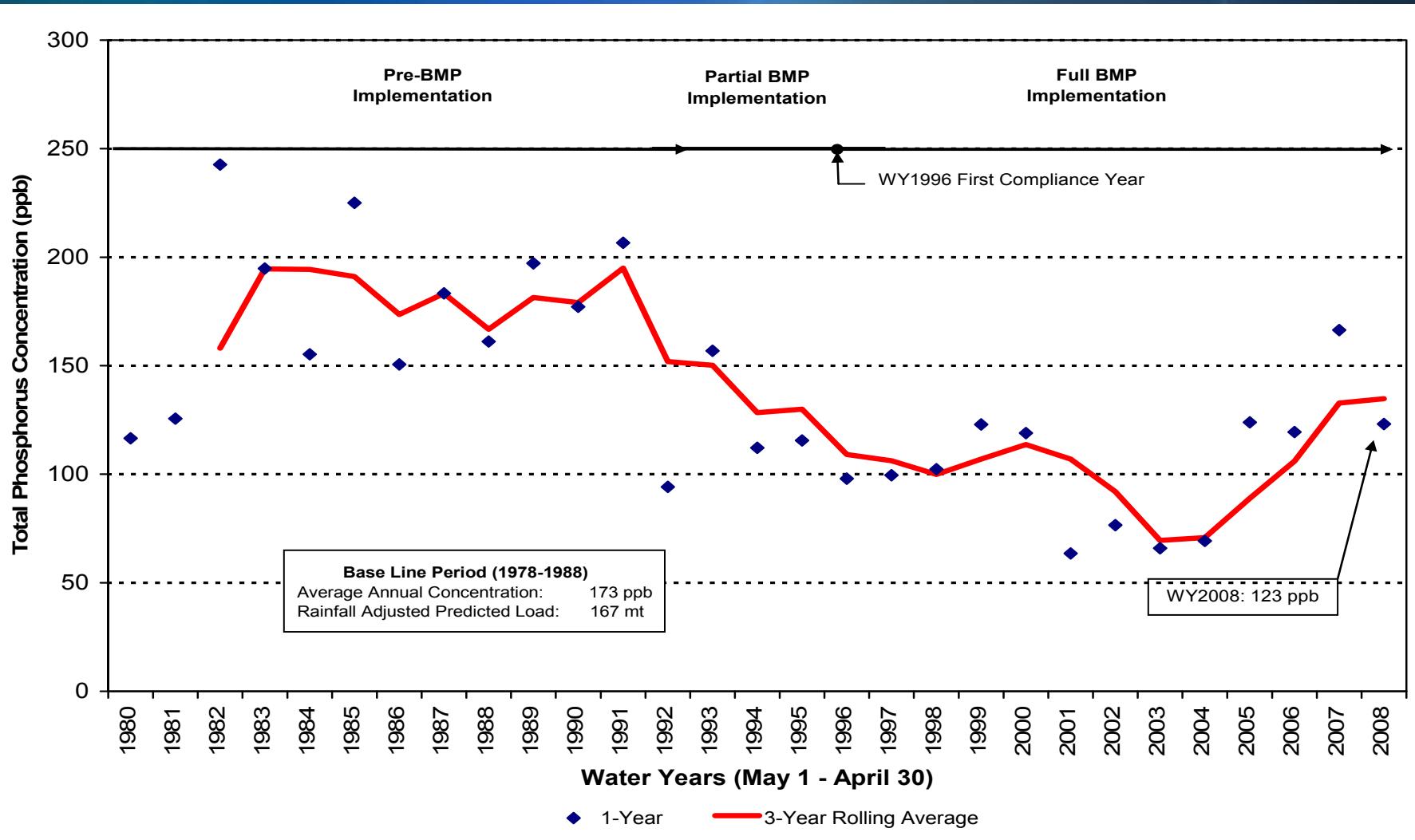


Questions?

# EAA Basin Performance



# EAA Basin Concentration Trend



# C-139 Basin Trends

