



**South Florida
Ecosystem
Restoration
Guidance Memoranda
Status**



restoration
restoration

Task Force Meeting
September 27, 2007

Background on Guidance Memoranda

- WRDA 2000 requires Secretary Army, with concurrence of Secretary DOI and Governor, to promulgate Programmatic Regulations
- Programmatic Regulations published in Federal Register November 12, 2003 and became effective December 12, 2003
- Programmatic Regulations require development and approval of Guidance Memoranda on six program-wide subjects
 - Jointly developed by Corps and SFWMD NLT December 13, 2004
 - Notice in Federal register to allow for public comment prior to approval
 - Approval by Secretary of Army with concurrence of Secretary DOI and Governor

Six Guidance Memoranda

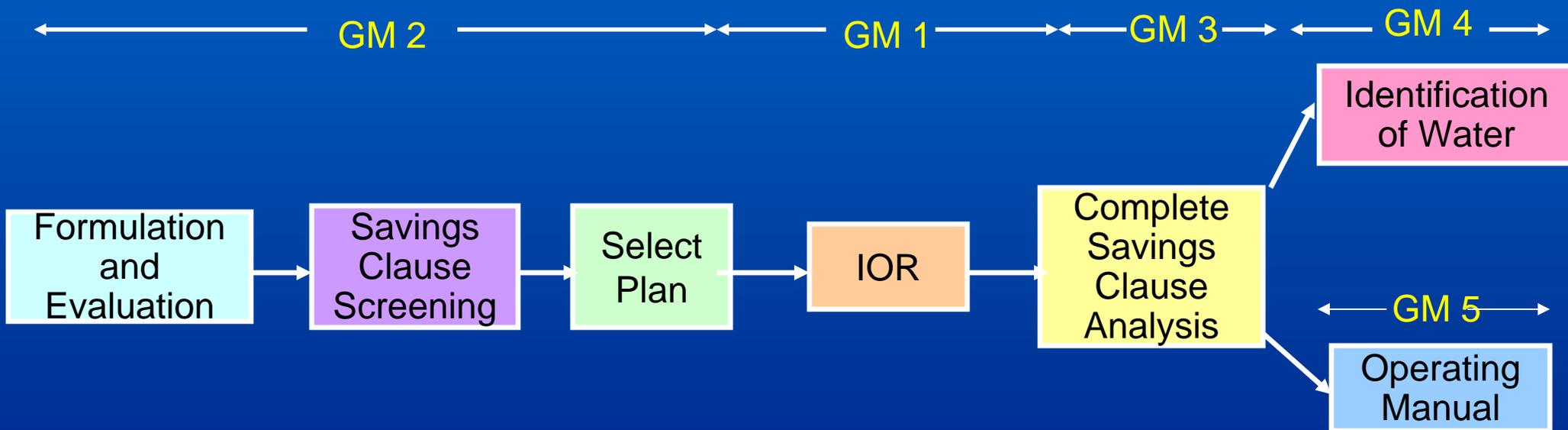
- GM 1: Project Implementation Reports
- GM 2: Formulation and Evaluation of Alternatives for PIRs
- GM 3: Savings Clause Requirements
- GM 4: Identifying Water Made Available for the Natural System and for Other Water-Related Needs
- GM 5: Operating Manuals
- GM 6: Assessment Activities for Adaptive Management

Development of Guidance Memoranda



- Developed by Interagency team
- Draft GM document posted for public review November 2004
- Final draft document posted for public review May 2005
 - Federal Register notice of availability
 - Significant public concerns about GMs 3 and 4
- Revised final draft posted for informal public review on August 7

Relationship Among PIR Tasks



Key Modeling Conditions

- Initial Operating Regime (IOR) – Conditions at the time the TSP is selected plus the CERP Project
- Existing Conditions Baseline (ECB) - Conditions at the time the TSP is selected
- Next-Added Increment (NAI) – Conditions in 2050 assuming no additional CERP projects are approved

Modeling Assumptions

Existing Conditions Baseline

- Actual conditions at time TSP is identified
- Estimated permitted demands at the time TSP is identified
- Existing operations of C&SF Project at time TSP is identified
- Non-CERP activities with approved Operating manuals at time TSP is identified
- Authorized CERP Projects with approved Operating Manuals at time TSP is identified

Initial Operating Regime (IOR)

- Estimated conditions at the time that the TSP is identified,
- 20xx demands or estimated permitted demands at the time that the TSP is identified, whichever is greater
- Existing operations of C&SF Project at time TSP is identified
- Non-CERP activities with approved Operating Manuals at time TSP is identified
- Authorized CERP Projects with approved Operating Manuals at time TSP is identified
- TSP

Key Modeling Assumptions

Next-Added Increment Baseline

- 2050 conditions and demands
- 2050 non-CERP activities
- Authorized CERP Projects with approved Operating Manuals at time TSP is identified

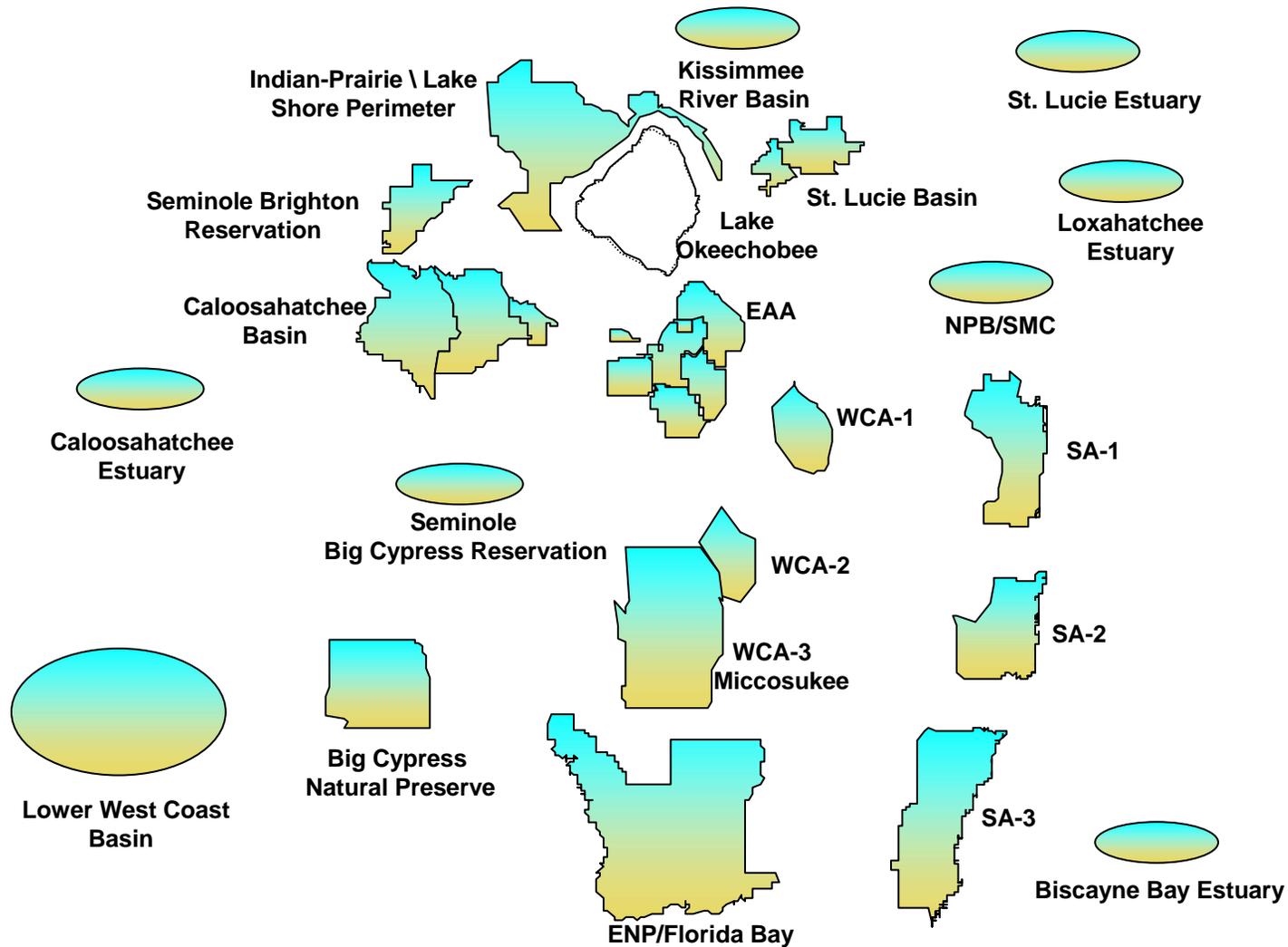
Next-Added Increment Condition

- 2050 conditions and demands
- 2050 non-CERP activities
- Authorized CERP Projects with approved Operating manuals at time TSP is identified
- TSP

GM 3 - Key Savings Clause Concepts

- PDT should conduct preliminary screening during formulation and evaluation phase to determine if alternatives have potential Savings Clause issues
- Full Savings Clause analyses will be conducted on selected alternative plan
- “Intervening non-CERP activities” may need to be analyzed
- Savings Clause analyses should also be conducted for modifications to Project Operating Manuals and System Operating Manual
- Savings Clause analyses based on comparison of IOR and Existing Conditions Baseline (or Pre-CERP Baseline)

Savings Clause Water Basins



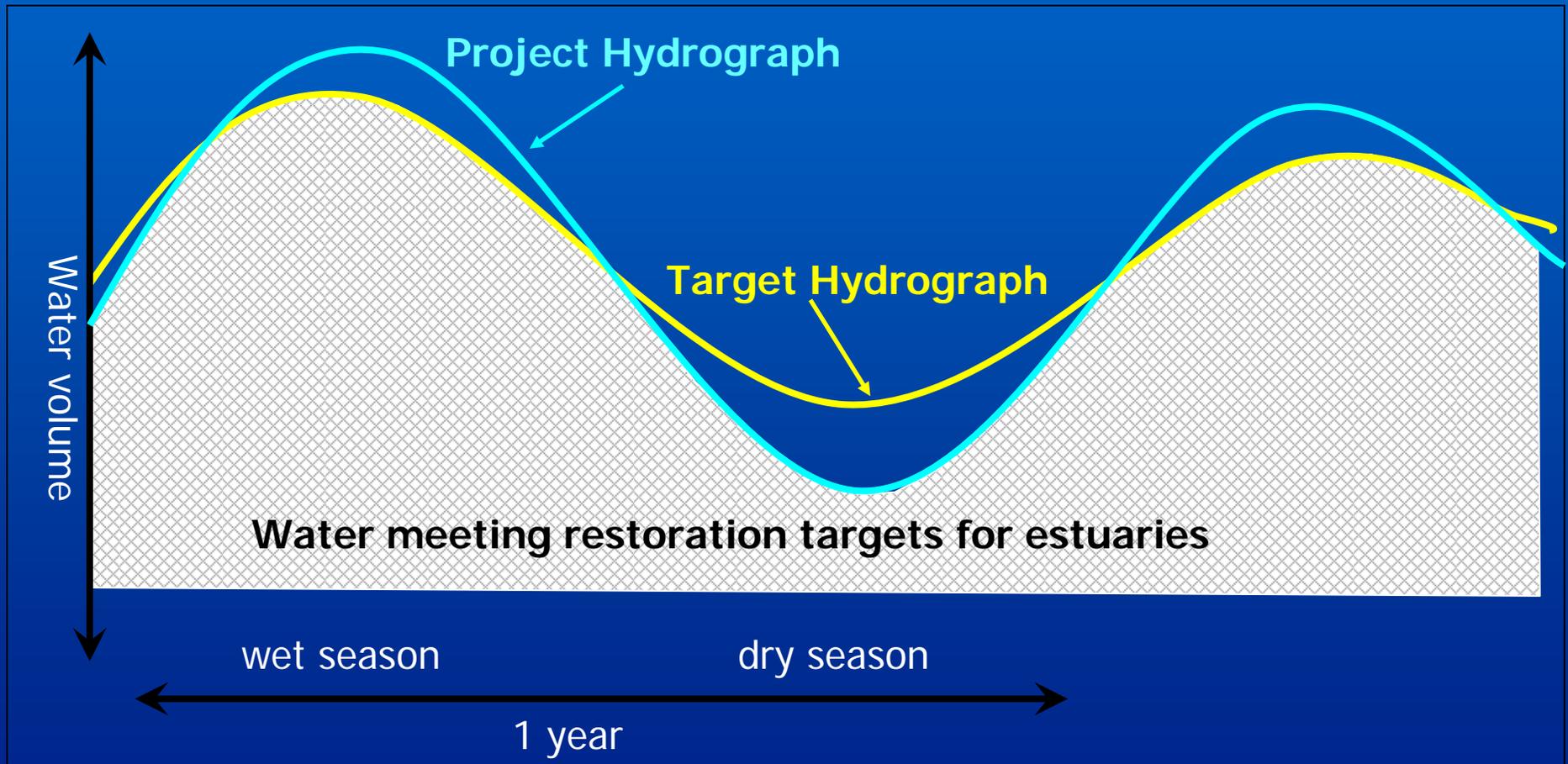
GM 4 - Methodology for Identifying Water

- System-wide accounting using water basins
- Water basins identified as natural area or other water-related needs
 - Natural areas sub-divided into Everglades and Estuaries
- Develop inflow volume-probability curves for each basin for IOR/ECB and NAI
- Compare with and without project conditions for IOR and NAI

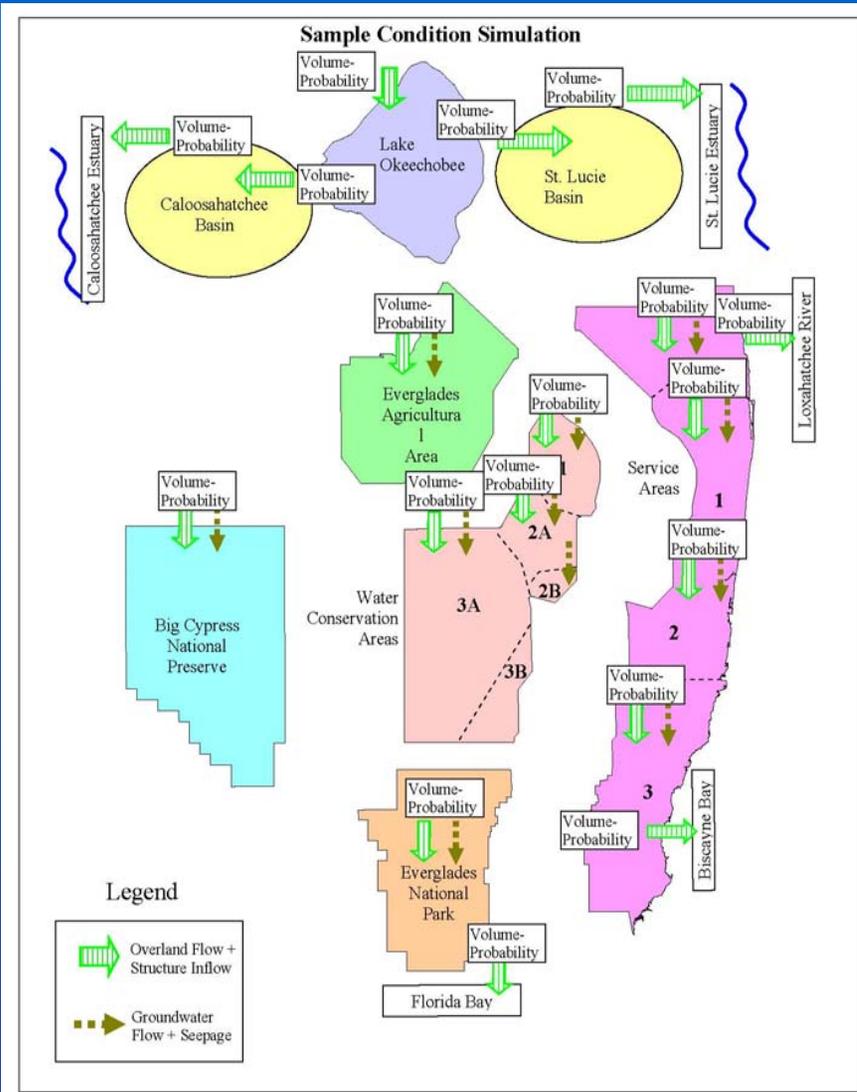
Two Methods to Identify Water for the Natural System: Estuaries and Everglades

- **Estuaries**—comparison between IOR (with project) to ECB (without project) and salinity envelope to determine portion of water required to meet restoration target
- **Everglades**—comparison between IOR (with project) to ECB (without project) to determine additional water flowing into Everglades system due to project. May result in identifying water greater than restoration targets.

Water Meeting Restoration Targets for Estuaries



Basins of Interest



Natural System Basins

Everglades

- Water Conservation Area 1
- Water Conservation Area 2
- Water Conservation Area 3
- Big Cypress National Preserve
- Everglades National Park

Estuaries

- Caloosahatchee Estuary
- St. Lucie Estuary
- Loxahatchee River
- Biscayne Bay
- Florida Bay

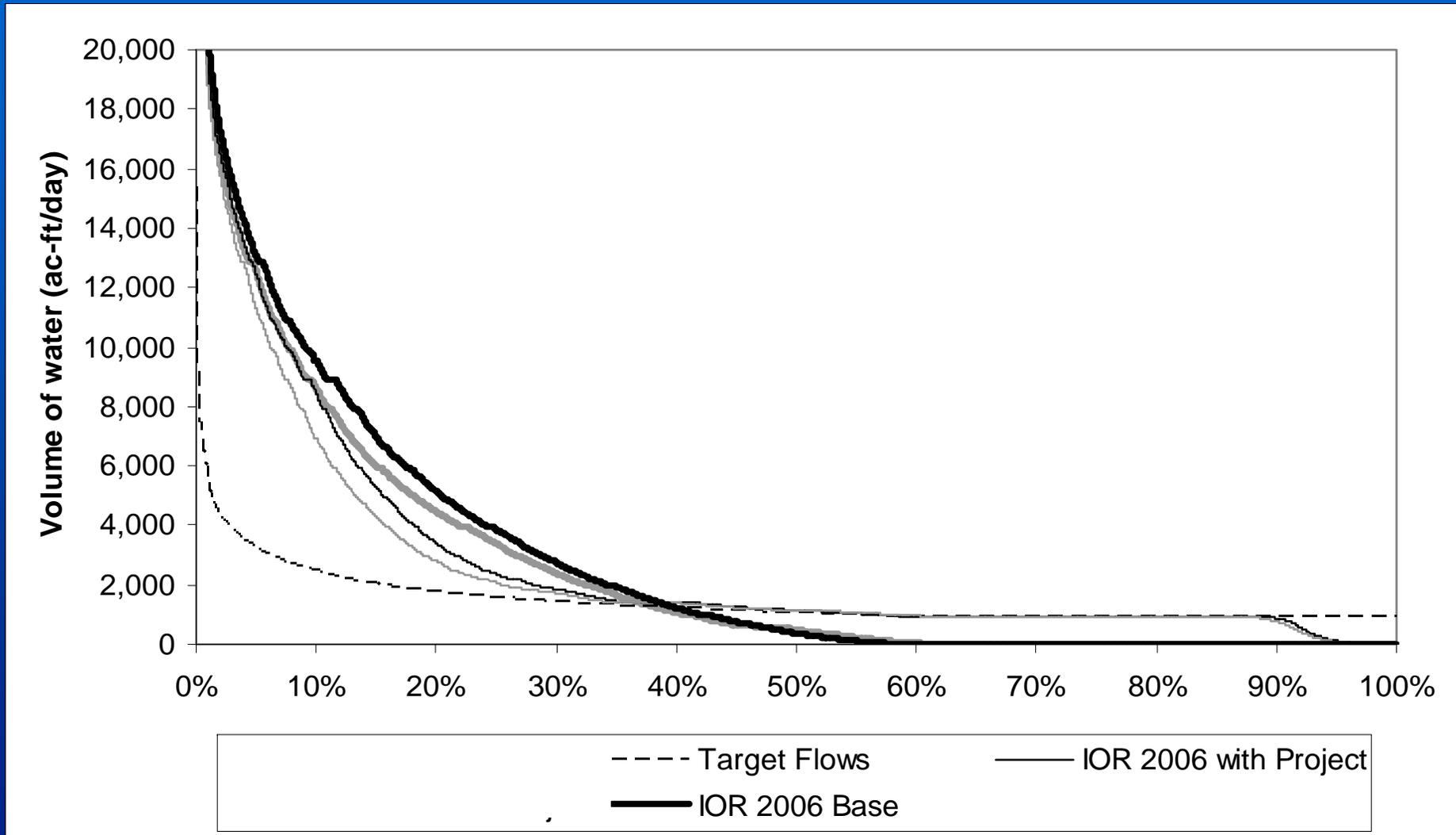
Other Water-Related Needs Basins

- Lake Okeechobee
- Caloosahatchee River Watershed
- St. Lucie River Watershed
- Everglades Agricultural Area
- Indian River/Lake Shore Perimeter
- North Palm Beach and Southern Martin Counties
- Lower East Coast Service Area 1
- Lower East Coast Service Area 2
- Lower East Coast Service Area 3

Identifying Water to be Reserved or Allocated

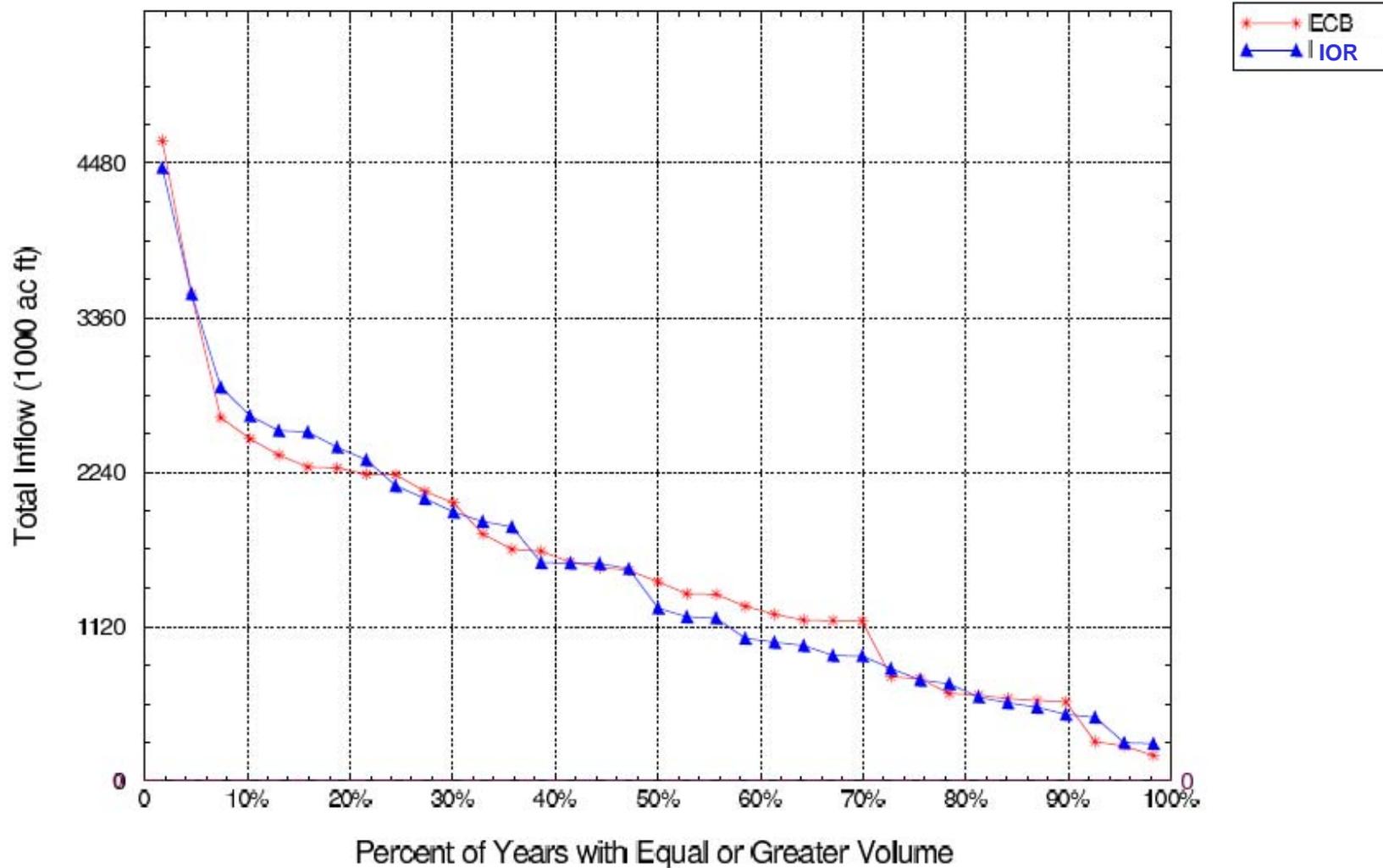
- For the natural system:
Water to be reserved or allocated = Difference between inflow volume-probability curve for Initial Operating Regime and inflow volume-probability curve for Existing Conditions Baseline

Estuarine Inflow Volume –Probability Curves for ECB and IOR



Everglades: Inflow Volume – Probability Curves for ECB and IOR

Total Water for the Natural System by IOR into Everglades National Park
for Surface Water



The Road Ahead

- Federal Register Notice of Availability - mid-September
- Public comment period – 60 days
- End of public comment period – mid-November
- Finalize GMs - November
- Obtain concurrence of Secretary DOI and Governor
- ASA(CW) approves GMs



Questions?