

The CERP Interim Goals and Interim Targets

South Florida Ecosystem
Restoration Task Force
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COMPREHENSIVE
EVERGLADES
RESTORATION PLAN

Programmatic Regulations

Call for the development of:

- (385.38) Interim Goals: “...a means by which the restoration success of the Plan may be evaluated at specific points...”
- (385.39) Targets for other water related needs: “...targets for evaluating progress towards achieving other water related needs of the region, including water supply and flood protection...”

Interim goals are “the specific evaluation tool established by [WRDA 2000] for evaluating the restoration success of the Plan”

Interim Goals and Interim Targets – Who & How

- Interim goals and interim targets “shall be developed [by RECOVER] through the use of appropriate models and tools...and best available science and information”
- RECOVER’s recommendations have been developed using the same version of the hydrologic model used to design the CERP (i.e., SFWMM v3.5 – D13R – and all of its assumptions, including the original implementation schedule)
- Four model runs are available for analysis – 1995 (no CERP), 2010, 2015 and 2050 (partial and full CERP)
- Based on CERP performance measures

Summary of Indicators*

- 13 Biologic
- 5 Hydrologic
- 5 Water Quality
- 5 Water Supply
- 3 Flood Protection

** Note: This initial set of Interim Goals and Interim Targets will not have predictions for all of these indicators*

Where We Are Now

- RECOVER has been creating the actual goals and targets since the decision was made to use D13R modeling (~ 6 weeks ago)
- A writing team is assembling the final draft technical recommendations
- **RECOVER's final draft recommendations will be transmitted to the Corps, Dept of Interior and the SFWMD no later than January 15, 2005**
- The agencies will then enter into consultation on the Interim Goals and Interim Targets as required by the programmatic regulations
- Interim Goals and Interim Targets will be revised no later than 2010, using improved science and prediction methodologies

Organization of RECOVER's Technical Recommendations

A. Introduction

B. "Telling the story" for the following modules:

- Northern Estuaries
- Lake Okeechobee
- Greater Everglades
- Southern Estuaries
- Water Supply and Flood Protection

C. Technical documentation in appendices

Each Module will “Tell the Story”

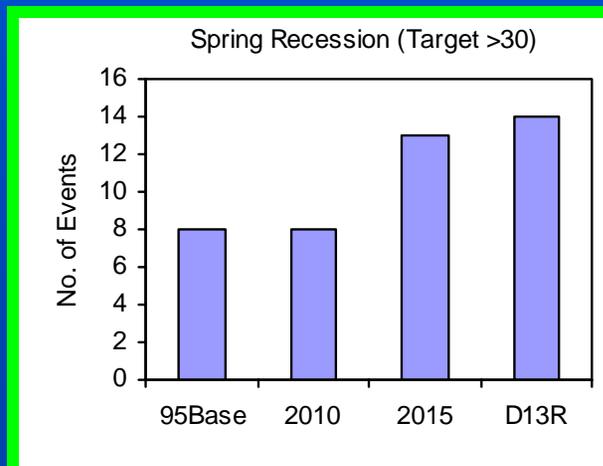
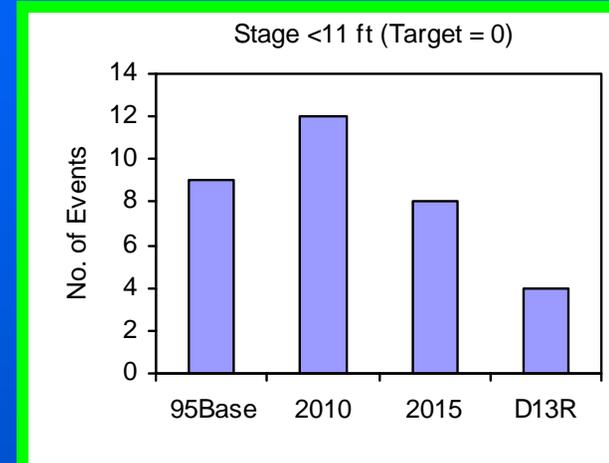
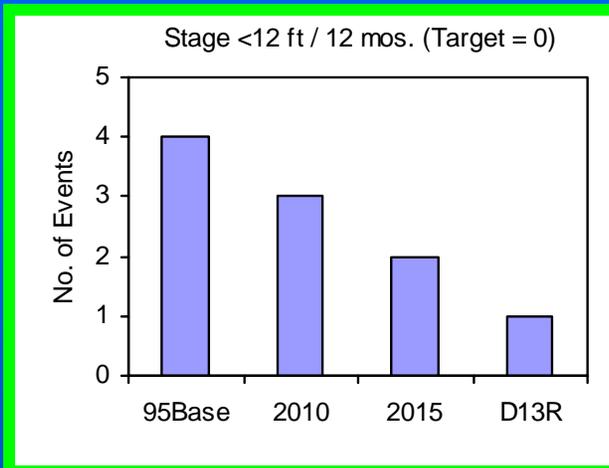
Lake Okeechobee example:

- What is causing the decline in Lake Okeechobee’s health?
- What effects are these stressors having on the ecology?
- How will the CERP alleviate the effects?
- What types of tools do we use to predict the CERP’s success?
- What are our predictions of interim goals for Lake Okeechobee?
- How do we know we have achieved success through CERP?

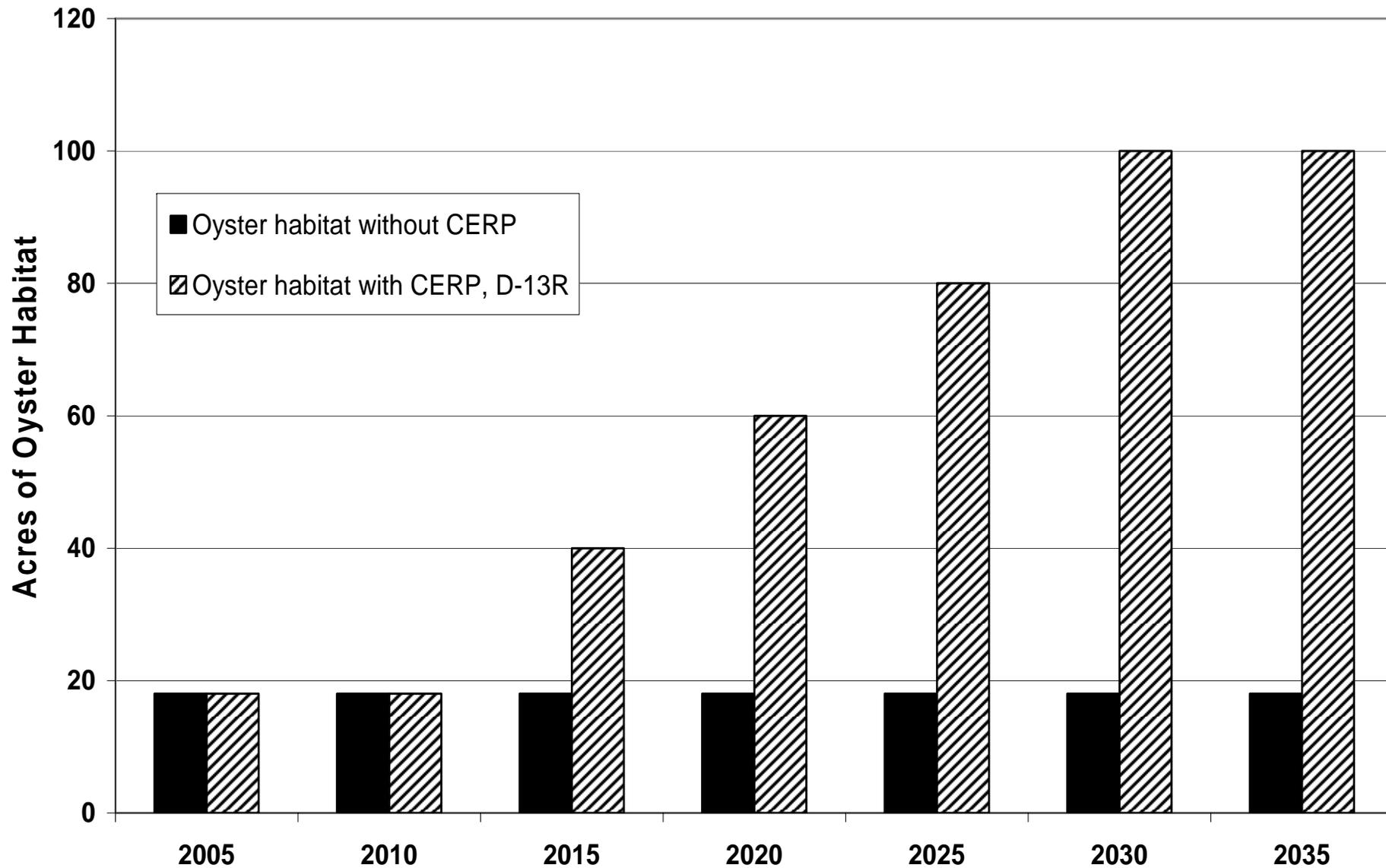
Examples of Interim Goals and Interim Targets

- **Lake Okeechobee – Hydrology**
- **Caloosahatchee Estuary – American Oysters**
- **Greater Everglades – Wading Birds**
- **Greater Everglades – Tree Islands**
- **Water Supply for the Lake Okeechobee Service Area**

Hydrologic Predictions for Lake Okeechobee



Comparison of Oyster Habitat (acres) Change in the Caloosahatchee Estuary "With" and "Without" CERP (D-13R)



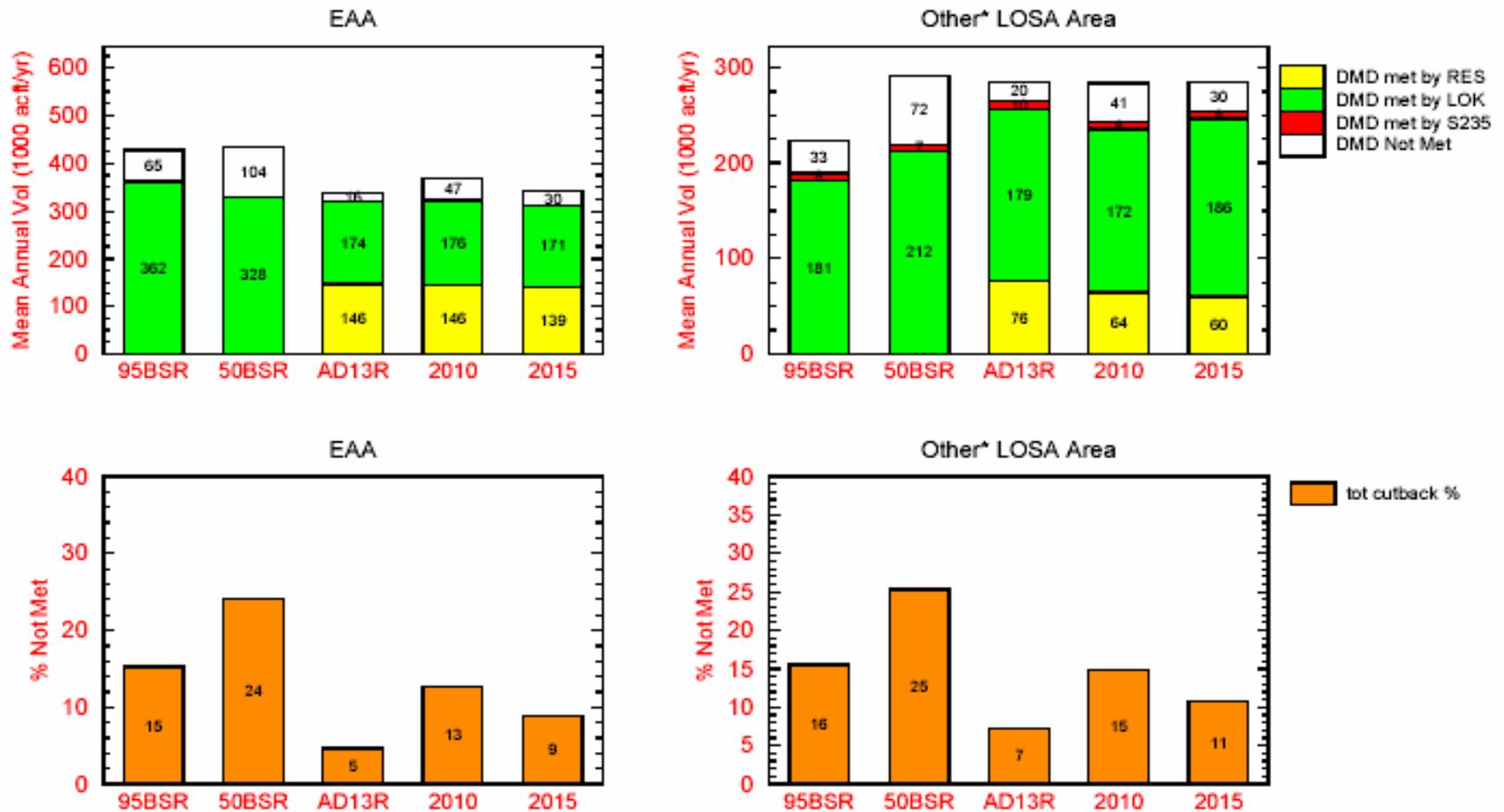
Greater Everglades – Wading Bird Nesting Patterns

Indicator	1995	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030	2030-2035	2050
Total # of pairs	30,000	35,000	40,000	45,000	50,000	55,000	60,000	80,000
Location % estuarine	3.7% (r=1.6-6.9%)	5%	10%	15%	25%	30%	35%	>50%
Timing Storks	Feb-Mar	Feb-Mar	Feb-Mar	Jan-Feb	Jan-Feb	Dec-Jan	Dec-Jan	Dec-Jan
Frequency Super Colony (avg)	1 per 8yrs	1 per 8 yrs	1 per 8 yrs	1 per 8 yrs	1 per 6 yrs	1 per 6 yrs	1 per 6 yrs	1 per 4 yrs

Greater Everglades Tree Islands – Habitat Suitability Indices

<i>Ind Region</i>	NSM_DR	95BS_DR	D13R_DR	2010_DR	2015_DR	2050_DR
LMWR IR Ave	0.88	0.92	0.91	0.90	0.91	0.83
WCA-2 IR Ave	0.83	0.78	0.79	0.79	0.80	0.77
WCA-3A North	0.79	0.60	0.76	0.74	0.74	0.73
WCA-3A South	0.82	0.88	0.92	0.86	0.90	0.80
WCA-3B IR Ave	0.88	0.92	0.95	0.85	0.87	0.86
Shark Slough IR	0.98	0.76	0.94	0.81	0.84	0.81
<i>Ind Region</i>	NSM_Flood	95BS_Flood	D13R_Flood	2010_Flood	2015_Flood	2050_Flood
LMWR IR Ave	1.00	0.61	0.66	0.66	0.66	0.68
WCA-2 IR Ave	1.00	0.98	0.91	0.90	0.91	0.84
WCA-3A North	1.00	0.70	0.67	0.69	0.76	0.73
WCA-3A South	0.98	0.24	0.53	0.41	0.50	0.37
WCA-3B IR Ave	0.45	0.09	0.05	0.00	0.00	0.00
Shark Slough IR	0.38	0.73	0.38	0.33	0.35	0.76
<i>Ind Region</i>		95BS_Rich	D13R_Rich	2010_Rich	2015_Rich	2050_Rich
LMWR IR Ave		0.95	0.93	0.95	0.93	0.94
WCA-2 IR Ave		0.80	0.70	0.78	0.74	0.84
WCA-3A North		0.60	0.83	0.75	0.78	0.64
WCA-3A South		0.87	0.83	0.99	0.89	0.89
WCA-3B IR Ave		0.51	0.66	0.51	0.54	0.42
Shark Slough IR		0.44	1.00	0.60	0.73	0.70

Mean Annual EAA/LOSA Supplemental Irrigation: Demands and Demands Not Met for the 1965 – 1995 Simulation Period



*Other Lake Service SubAreas (S236, S4, L8, C43, C44, and Seminole Indians (Brighton & Big Cypress)).

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SPWMM V3.5

Thank You
Questions?