A Relook at CERP Interim Goals and Interim Targets

GEER 2017, Coral Springs FL

Agnes R. McLean, Everglades National Park
Rebecca Elliott, Florida Department of Agriculture and Consumer Services
Presentation Outline

1. What are Interim Goals and Interim Targets?
2. What do they mean to the restoration program?
3. Why relook now?
4. What are we going to do?
Interim goals are:
... a means to evaluate the restoration success of the CERP by tracking restoration performance
... a basis for reporting progress and major scientific findings to policy makers and the public

Interim targets are:
... a means to evaluate the success of the CERP in providing for other water-related needs of the region, including water supply and flood protection
... a basis for reporting progress to policy makers and the public

Both are:
... primary tools to implement adaptive management strategies
Why are Interim Goals and Interim Targets Important?

- The interim goals and targets will facilitate adaptive management of the Plan to allow adjustments to Plan, including recommending changes to the Plan, if actual project performance toward meeting the goals and targets is less than anticipated.
- They provide accountability to ensure that the significant public investment in CERP is being well spent.
Why Now?

• Primarily hydrologic models used in initial effort ~2000-2005
• More finely developed hydrologic models with longer climatic period-of-record should improve predictive quality of goals and targets
• Ecological models developed and used in CEPP planning
Why Now?

CISRERP 2016 on the System Status Report:

• Need to report on progress toward Interim Goals and Targets
• Considering the state of the system and how it will change in the future is as important as looking back to document progress
• 2019 SSR: More thorough reporting on Interim Goals and Targets
Everglades Indicators “Word Cloud”
Ecological Models for Current Interim Goal Indicators

- American oysters in northern estuaries (Buzzelli et al)
- Submerged aquatic vegetation in northern estuaries (Buzzelli et al)
- Lake Okeechobee submerged aquatic vegetation (Rodusky et al)
- Aquatic fauna regional populations in Everglades wetlands (Catano and Trexler)
- Alligator production index (SFNRC)
- System-wide wading bird nesting pattern (Beerens and Noonburg)
- Apple snail population (surrogate for snail kite) (Romanach et al)
- Submerged aquatic vegetation in southern estuaries (Madden et al)
- Juvenile shrimp densities (Browder et al)
- American crocodile growth and survival (Brandt)
Current Interim Goal Indicators without Models

- Lake Okeechobee algal blooms
- Periphyton mat cover, structure and composition
- Ridge and slough pattern
- Everglades tree islands
- Florida Bay algal bloom
## Interim Goals

<table>
<thead>
<tr>
<th>Refinement of CERP Interim Goals</th>
<th>FY2017</th>
<th>FY2018</th>
<th>FY2019</th>
<th>FY2020</th>
<th>FY2021</th>
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<tbody>
<tr>
<td>A. Review interim goal indicators by region for continued scientific and social importance to the CERP program</td>
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<td>B. Confirm and/or revise the list of indicators to reflect latest science and system-wide priorities</td>
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<td>C. Review indicator documentation for scientific accuracy, restoration “targets,” Cross-check with the MAP</td>
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<td>D. Perform incremental and base-run hydrologic modeling for the CERP</td>
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<tr>
<td>E. Perform ecologic modeling for indicators based on hydrologic modeling; make new goal predictions (2019 SSR)</td>
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<td>F. Report on findings in the 2020 Report to Congress</td>
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<td>G. Revise 2005 RECOVER Technical Recommendations Report on Interim Goals and Interim Targets; conduct peer review</td>
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Consideration: Integration with SFERTF Stoplight Indicator Report?

Interim Goals:

• *Predict anticipated performance* of the plan at specific points in time (future)

Stoplight Report:

• To provide a *regional status* and the *trend* of each indicator (past ➔ current)
Interim Targets

• Represent the expected benefits of CERP for other water-related needs

• Water supply (agricultural, municipal and industrial), protection of the Biscayne aquifer from saltwater intrusion and flood protection indicators were used in 2005 RECOVER technical report; need to validate that those assumptions hold true

• Water volume indicator ties Interim Targets to Interim Goals to ensure consistency between them

• Are there other “water-related needs” that need to be addressed now?
## Interim Targets

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<td>A. Match the interim targets to projects instead of timeframes, using the Integrated Delivery Schedule</td>
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<td>B. Identify the appropriate models or data needed to perform an update to interim targets</td>
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<td>C. Perform analysis and/or hydrologic model runs; evaluate whether targets are accurately represented by the model(s)</td>
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<td>D. Update the water budget to represent current conditions and provide water budget projections</td>
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Interim Targets

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<td>G. Identify scope for next five-year interval for 2025 Report to Congress</td>
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Thank you!