Flow Direction & Discharge Windows
Scenario 3 – “Lake Belt”

Inflows = 2.04 mAf

T-C = 1.39 mAf

T-D = 0.17 mAf
Hypothetical Design

Spreader Canals

Focused flows
Implementation strategy

• Install spreaders in areas of low uncertainty about ecological response.

• Install flow focusing structures in a checkerboard pattern based on existing constraints
  – As these constraints are lifted, install more flow focusing structures.
  – Ultimate goal is to move to a full spreader canal system (assuming all constraints are removed).

• Careful monitoring of effects of hydropattern restoration is essential for determining the status of constraints, particularly
  – Nutrient impact constraints
  – Effects of hydroperiod versus effects of velocity
These structures hydrate NE WCA3

This structure sends water to Miami Canal

Too dry, elevated fire risk

Ponding too high

Exacerbates ponding
Conclusion

• Implementation of Hydropattern restoration features must be paired with systematic observations of ecological responses.
  – Observations determine whether constraints are removed or not.

• Doing nothing is undesirable

• Precedent for modular implementation exists in planning/installation of L-67 canals and North New River Canals (both planned more canals than were actually built). Monitoring of initial phases of these projects supported decision to halt further implementation.