Hydrologic Impacts and Restoration in the Fakahatchee Strand of Southwest Florida

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North Transect Water Levels from Canal to 2.5 Miles Away

Water Level (ft above MSL)

Water Level 0.0 Miles
Water Level 2.5 Miles
Ground Surface 0.0 Miles
Ground Surface 2.5 Miles
We Now Have a Pretty Good Idea of the Degree and Extent of Hydrologic Impacts of Adjacent North – South Canals

What about Restoration?
Far Minus Near Canal Water Level Difference

No Aquatic Weed Control
Uncontrolled Flow
Control Structure
Filled Canal

Water Level Difference (ft)


W6-W1
Ground Elevation Difference W6-W1
Water Levels Relative to Filled/Unfilled Canals - Transect 2

Elevation (ft above MSL)

- Near Unfilled Canal
- Between Filled and Unfilled Canals
- Near Filled Canal

Dates:
- Sep-03
- Apr-04
- Oct-04
- May-05
- Dec-05
- Jun-06
- Jan-07
- Jul-07
- Feb-08

Legend:
- Red: Near Unfilled Canal
- Yellow: Between Filled and Unfilled Canals
- Green: Near Filled Canal
Conclusions

- Prairie Canal Lowered Adjacent Water Levels by Up to 2 ft in Summer Wet Season
- Prairie Canal Lowered Adjacent Water Levels by Up to 5 ft in Spring Dry Season
- Canal Drainage Effects Extended 1 – 3 miles into Fakahatchee Strand