**EXHIBIT 25** 



## Miami-Dade Canal Agricultural Drawdown Study February 12, 2008 Governing Board Dewey Worth – Restoration Planning Division, Everglades Restoration



SOUTH FLORIDA WATER MANAGEMENT DISTRICT	
	Farming and Water Management History
	<ul> <li>Extensive farming began in 1900s when local farmers dug and maintained local drainage canals</li> </ul>
	<ul> <li>Canals expanded and upgraded by C&amp;SF project in 1960s to aid economic output of agriculture and commerce</li> </ul>
Water And	<ul> <li>Common practice is to lower water levels at beginning of dry season</li> </ul>
the	<ul> <li>This practice has been acknowledged since 1981 by SFWMD</li> </ul>
	<i>"Governing Board gave no guarantee for flood protection – operate system to minimize impacts"</i>
sfwmd.gov	3

Biscayne Bay Coastal Wetlands F Alternative "0" 0 101 行 agricultural drawdown

Region

by

impacted





## Drawdown Impacts to Biscayne Bay

- Lowering canal levels at the start of the dry season releases water to Biscayne Bay at the wrong time
- Biscayne National Park estimates 63,000 acre-feet annually (average) lost that could provide dry season groundwater flow
- Biscayne Bay often experiences high salinities later in the dry season which this water could help mitigate

## Stakeholder Issues Discussed at WRAC



- Biscayne Bay Coastal Wetlands Project recommends eliminating the drawdown practice (part of phase 2 plan) – provides significant environmental benefits
- Farming intensity has diminished and crop types have changed from historical
- Conversion of crop lands to urban development
- Farming still active part of local economy and practice still needed

## Other Emerging Issues

- Increased evidence of regional salt water intrusion within the Biscayne Aquifer
  - Increased mining activity that could accelerate mixing of surface water and salt-intruded aquifers
  - Florida Power and Light expanded power facility at Turkey Point and affect on regional water resources
  - Proximity of wellfields to saltwater intrusion line and future wellfield sustainability

## Agricultural Drawdown Study

- Fact-finding effort
- Work with local agricultural representatives to identify drawdown practices and future needs
- Identify temporary opportunities to change seasonal practice in the short term
- Identify potential operational or structural improvements to lessen water losses and address other water resource needs throughout the basin

# SOUTH FLORIDA WATER MANAGEMENT DISTRICT **EXHIBIT 25** Questions