



**Environment
&
Natural Resources Council
Committee Actions**

**November 5, 2007
3:30 PM
212 Knott Building**

**Marco Rubio
Speaker**

**Rep. Stan Mayfield
Chair**

Council Meeting Notice
HOUSE OF REPRESENTATIVES

Speaker Marco Rubio

Environment & Natural Resources Council

Start Date and Time: Monday, November 05, 2007 03:30 pm

End Date and Time: Monday, November 05, 2007 05:30 pm

Location: 212 Knott Building

Duration: 2.00 hrs

Workshop on the following:

Lake Okeechobee water levels, potential water supply emergencies, and recent actions of the South Florida Water Management District

NOTICE FINALIZED on 10/29/2007 16:10 by BLR

COUNCIL MEETING REPORT
Environment & Natural Resources Council

11/5/2007 3:30:00PM

Location: 212 Knott Building

Attendance:

	<i>Present</i>	<i>Absent</i>	<i>Excused</i>
Stan Mayfield (Chair)	X		
Debbie Boyd	X		
Mary Brandenburg	X		
Faye Culp	X		
Richard Glorioso	X		
Denise Grimsley			X
Will Kendrick	X		
Paige Kreegel			X
Rick Kriseman	X		
Richard Machek	X		
Bryan Nelson	X		
Stephen Precourt	X		
Scott Randolph	X		
Baxter Troutman			X
Trudi Williams	X		
Totals:	12	0	3

Committee meeting was reported out: Monday, November 05, 2007 7:54:57PM

COUNCIL MEETING REPORT
Environment & Natural Resources Council

11/5/2007 3:30:00PM

Location: 212 Knott Building

Workshop

Lake Okeechobee water levels, potential water supply emergencies, and recent actions of the South Florida Water Management District

Appearances:

Carol Ann Wehle, Executive Director (Lobbyist) (State Employee) (At Request Of Chair) - Information Only

South Florida Water Management District

3301 Gun Club Road

West Palm Beach FL 33407

Phone:561-682-2893

Charles Bronson, Commissioner (At Request Of Chair) - Information Only

Department of Agriculture & Consumer Services

PL 10, the Capitol

Tallahassee FL 32399

Phone:488-3022

Chuck Aller, Director (Lobbyist) (State Employee) (At Request Of Chair) - Information Only

AG Natural Resources Assessment

Department of Agriculture & Consumer Services PL 10, the Capitol

Tallahassee FL 32399

Phone:488-3022

Eric Draper (Lobbyist) - Information Only

Audubon of Florida

2507 Callaway Road #103

Tallahassee FL 32303

Phone:224-7576

Nelson Mongiovi, Director (State Employee) (At Request Of Chair) - Information Only

Division of Marketing

DACS PL 10, the Capitol

Tallahassee FL 32399

Phone:488-3022

Thomas Mac Vicar, P.E., President (At Request Of Chair) - Information Only

Federico & Lamb Water Reource & Environmental Consulting

4524 Gun Club Road, Suite 201 3125 Conner Blvd.

West Palm Beach FL 33415

Phone:561-689-1708

Committee meeting was reported out: Monday, November 05, 2007 7:54:57PM

COUNCIL MEETING REPORT
Environment & Natural Resources Council

11/5/2007 3:30:00PM

Location: 212 Knott Building

Summary: No Bills Considered

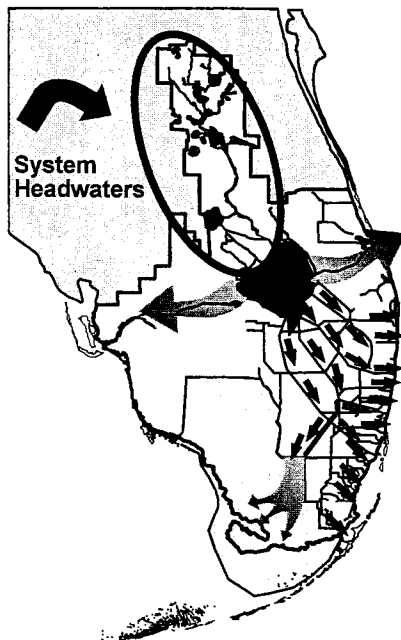
Committee meeting was reported out: Monday, November 05, 2007 7:54:57PM

2006-07 Water Shortage

House Environmental & Natural Resources Council
November 5, 2007

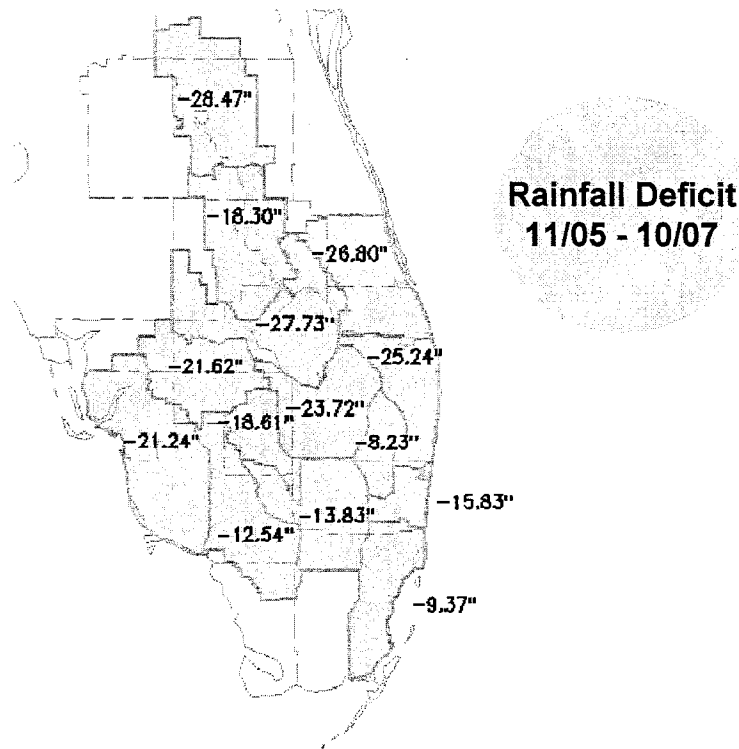
Carol Ann Wehle
Executive Director

Lake Okeechobee: Heart of the System

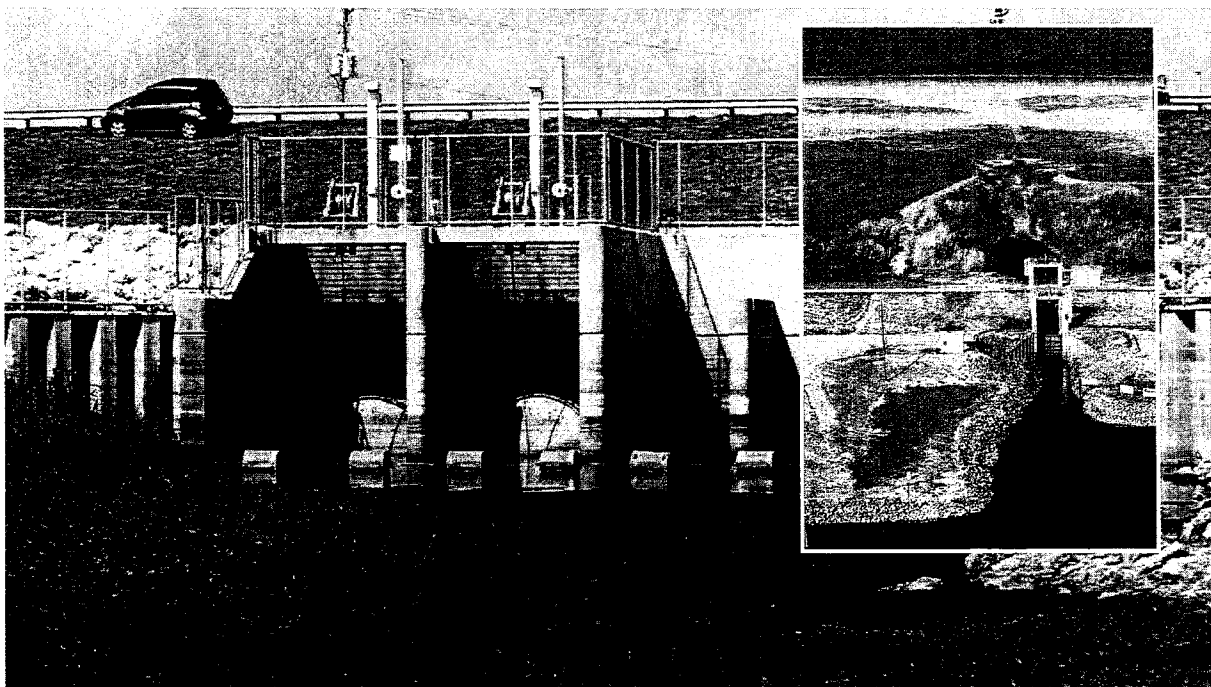


- ┆ Lake Okeechobee watershed covers +5,000 sq miles
- ┆ Lake levels depend on rainfall & inflows from watershed
- ┆ Multi-purpose objectives:
 - ┆ Natural Resources
 - ┆ Flood Control
 - ┆ Water Supply
 - ┆ Recreation

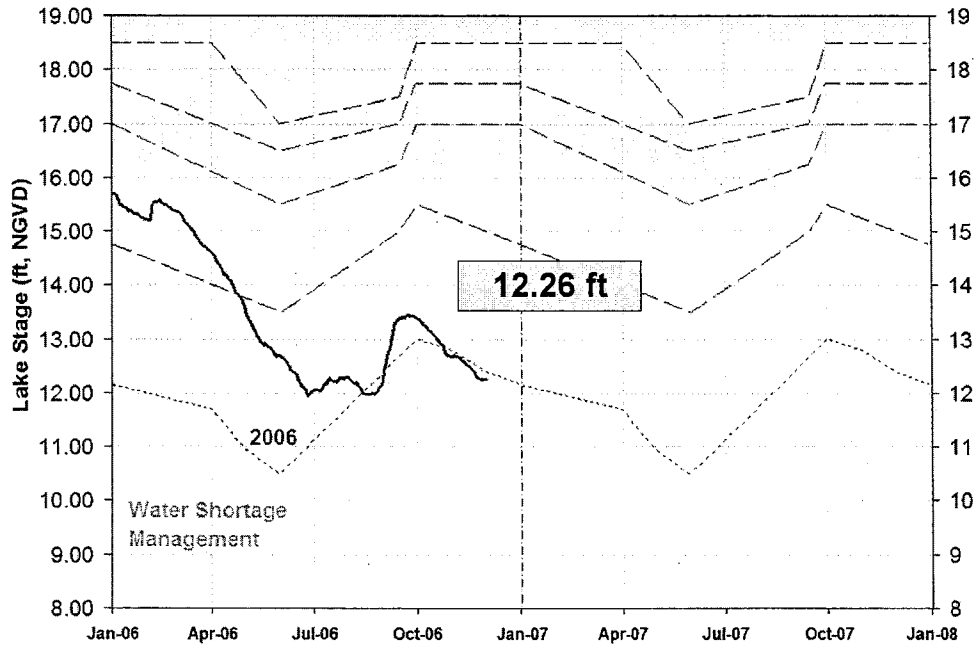
Two-Year Rainfall Deficit



Water Shortage Emergency Actions



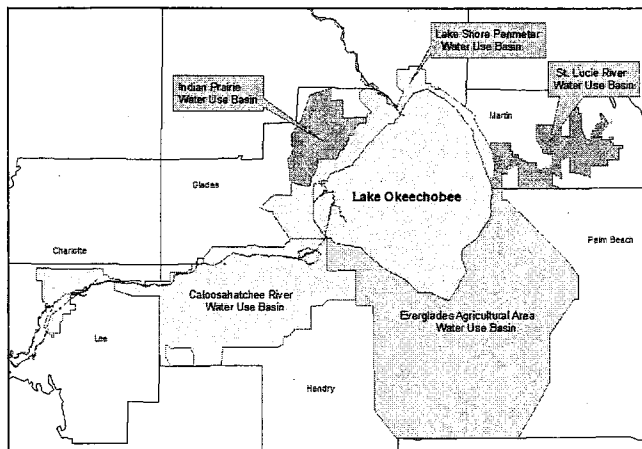
Lake Okeechobee Levels – November 2006



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November 2006 Water Shortage Actions

- Water Shortage Order mandates cutbacks within the Lake Okeechobee Service Area
- 15% cutback of 1-in-10 year irrigation demands

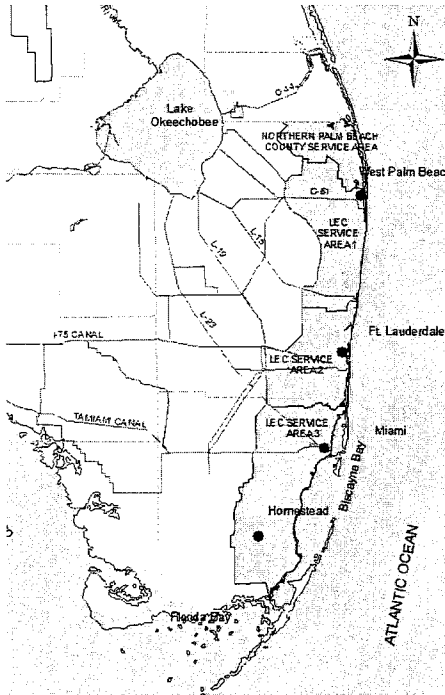


2001 Lessons Learned:

- Revised water allocation method coordinated with agricultural water users
- Larger, more predictable weekly allocations of irrigation water

8

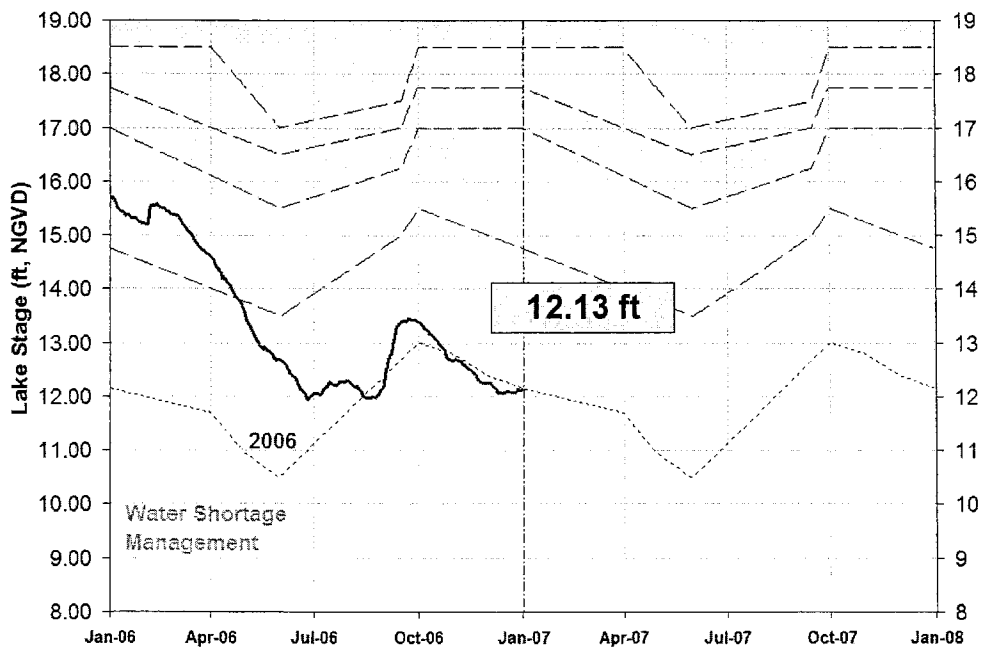
November 2006 Water Shortage Actions



- ▣ Water Shortage Warning issued for Lower East Coast
- ▣ Public messaging for voluntary reductions
- ▣ Stepped up water conservation efforts

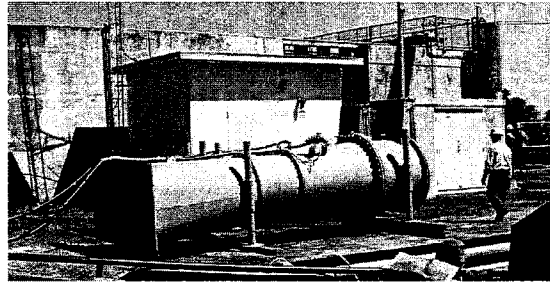


Lake Okeechobee Levels – December 2006



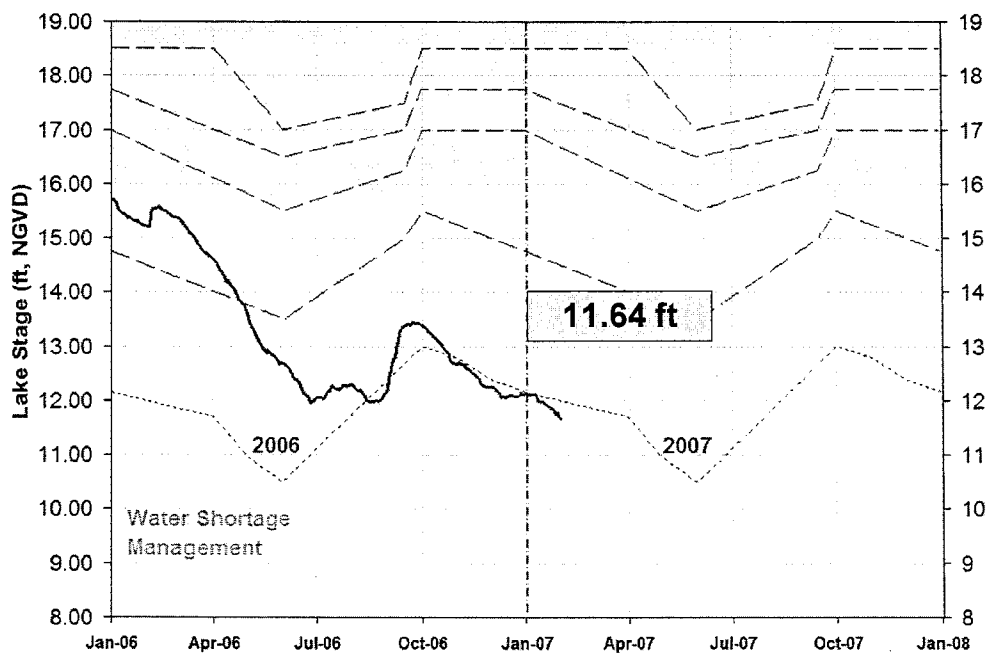
December 2006 Water Shortage Actions

- ▶ 14 temporary forward pumps procured for future emergency use at Lake Okeechobee
- ▶ Water Shortage Order to coordinate water deliveries for agricultural users & Seminole Tribe in Southern Indian Prairie Basin
- ▶ Continued minimal environmental deliveries to Caloosahatchee Estuary



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Lake Okeechobee Levels – January 2007



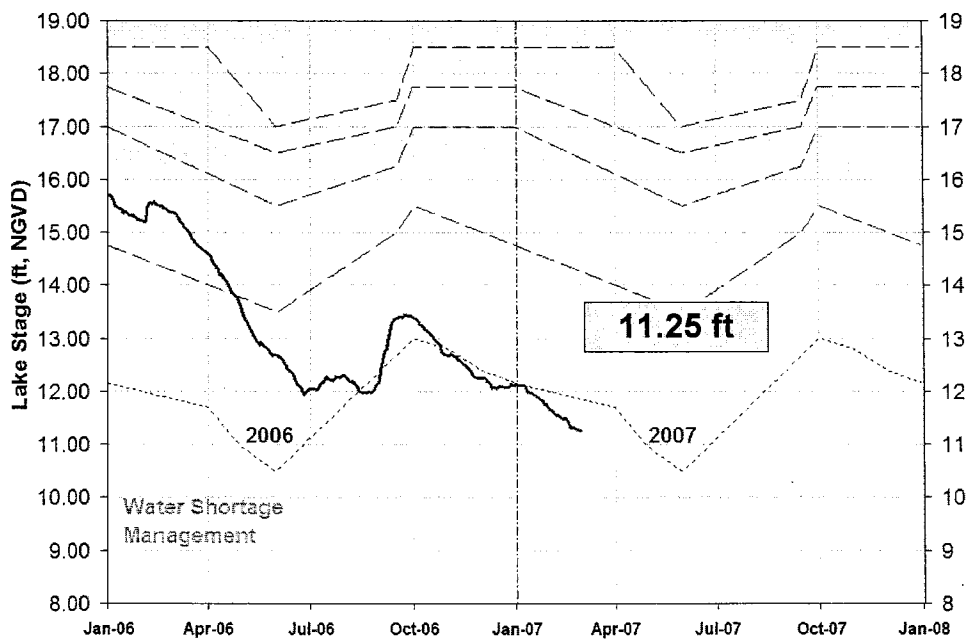
12

January 2007 Water Shortage Actions

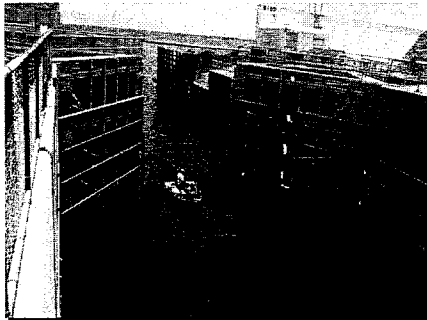


- 1. Extensive public communications
- 2. Ongoing coordination with agricultural representatives
- 3. Weekly water allocations posted on web for Ag water users
- 4. Outreach campaigns with the Florida Nursery Growers & Landscape Association and public water utilities
- 5. Continuing news releases

Lake Okeechobee Levels – February 2007



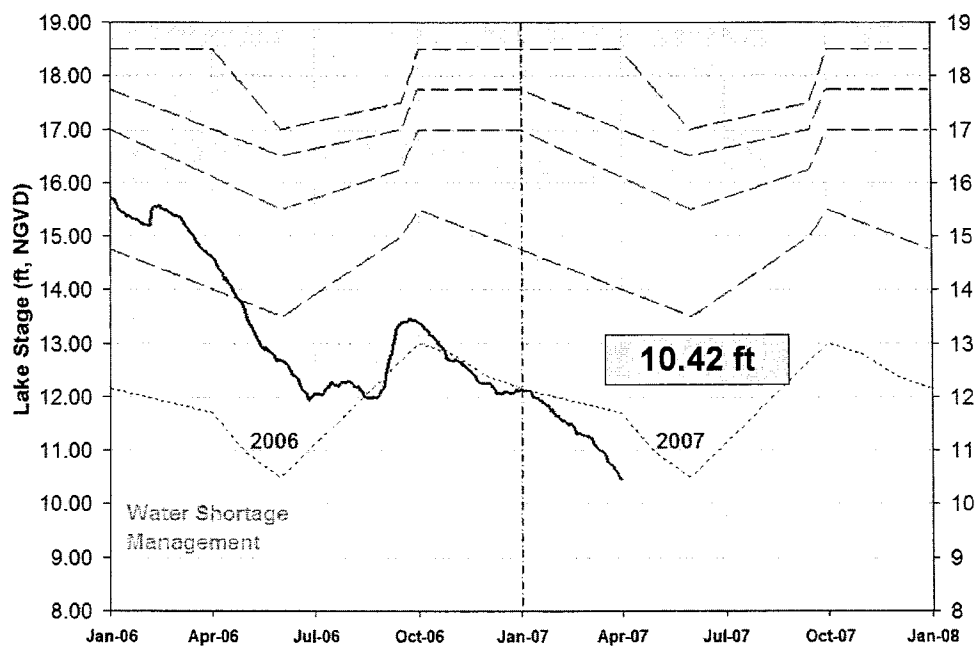
February 2007 Water Shortage Actions



- Public workshops for marina and business owners in Okeechobee & Clewiston
- Coordinated navigation lock restrictions with the Army Corps of Engineers
- Low lake environmental enhancements planned
- Continued coordination with water user groups and extensive public messaging

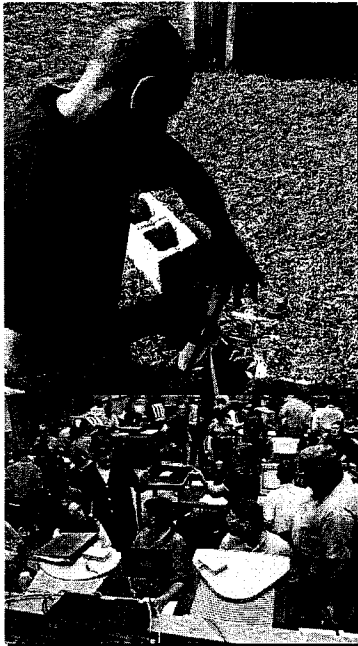
15

Lake Okeechobee Levels – March 2007



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March 2007 Water Shortage Actions



- District Emergency Operations Center fully activated
- Over the next four months, more than 300 staff members assigned water shortage emergency duties

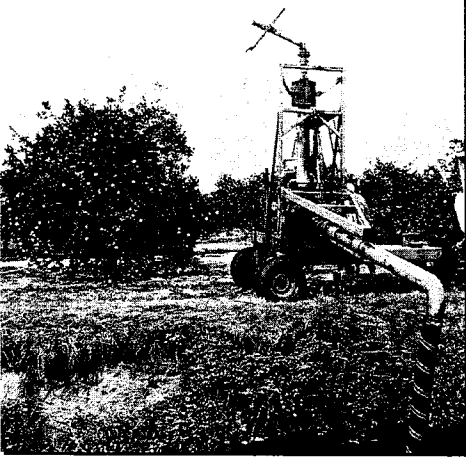
17

March 2007 Water Shortage Actions

- Instituted 20+ specialized drought management teams
 - District Enforcement
 - Local Government Enforcement
 - Utility Issues
 - 298 Special District Issues
 - Fish Kills/Canals
 - Navigation & Shoaling
 - Lake Istokpoga/Tribe
 - Variances
 - Upper East Coast Canals
 - L-8 Water Potential/DEP Variances
 - Media/Outreach
 - Agriculture Allocation Team
 - State EOC & County Coordination
 - WCA Deviations
 - Lake Istokpoga Deviation
 - Reuse/Canal Recharge
 - Lake Okeechobee Environmental Enhancement
 - Economic Impact
 - Water Conditions Analysis
 - Modeling
 - Citizen Information Line
 - Research/History
 - Stormwater Treatment Areas (STAs)

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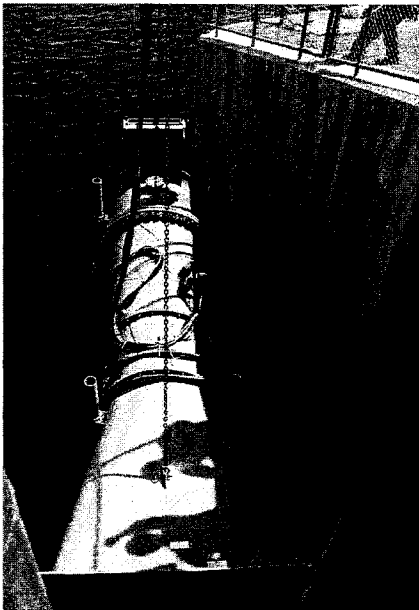
March 2007 Water Shortage Actions



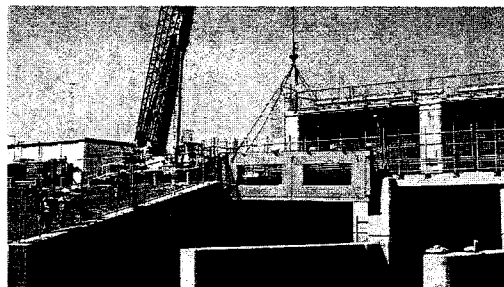
- Water Shortage Order for the St. Lucie Agricultural Area and C-23, C-24 & C-25 Basins
- 30% cutbacks in irrigation ordered for Lake Okeechobee Service Area
- Three day a week watering and other restrictions ordered for Lower East Coast

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March 2007 Water Shortage Actions



- Temporary pumps installed to assist Everglades Agricultural Area growers
 - 14 pumps at three sites



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March 2007 Water Shortage Actions



- Deviation requests sent to the U.S. Army Corps for temporary changes to regulation schedules for:
 - Lake Istokpoga
 - Water Conservation Area 1
 - Water Conservation Area 2
- Requests granted June 2007

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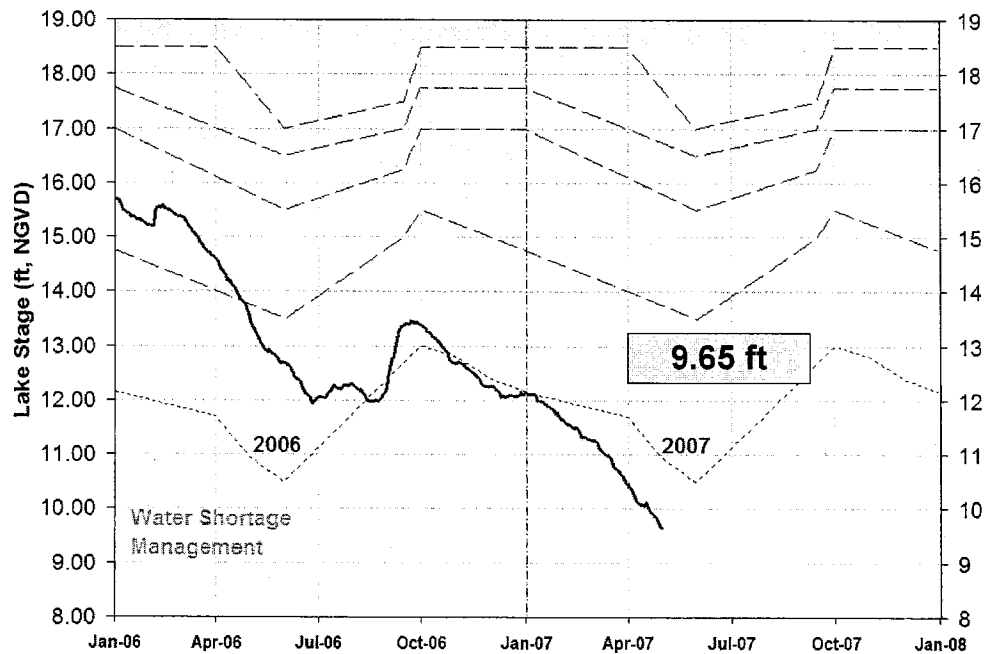
March 2007 Environmental Enhancement Projects



- Lake Okeechobee control burn projects initiated
- 70,000 acres of marsh burned to reduce cattail and torpedo grass
- Planning for additional projects at lower lake stages

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Lake Okeechobee Levels – April 2007

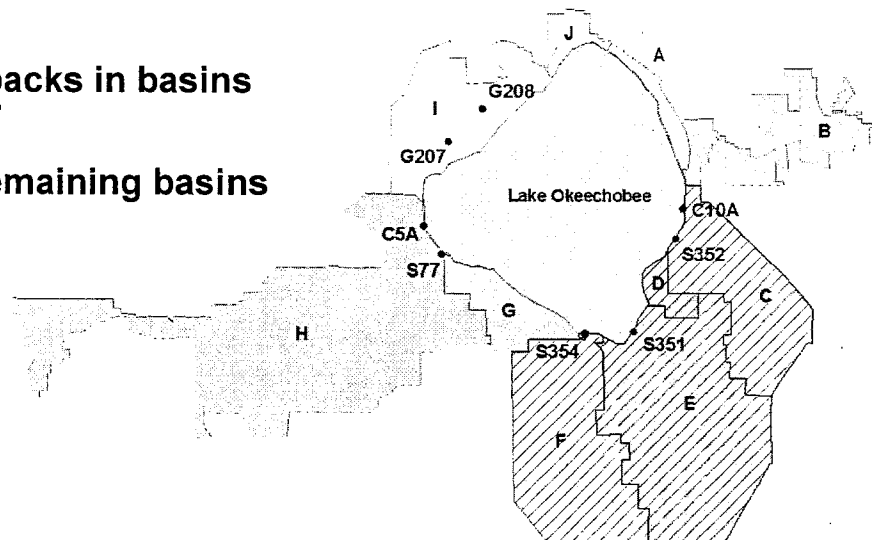


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April 2007 Water Shortage Actions

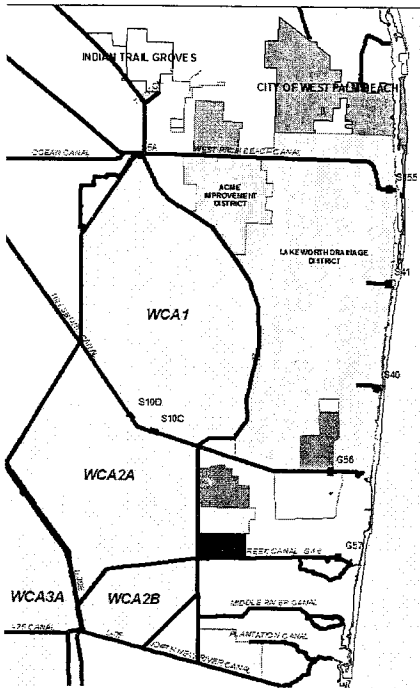
- Coordinated with agricultural users in Lake Okeechobee Service Area on increased cutbacks

- 45% cutbacks in basins C, D, E, F
- 30% in remaining basins



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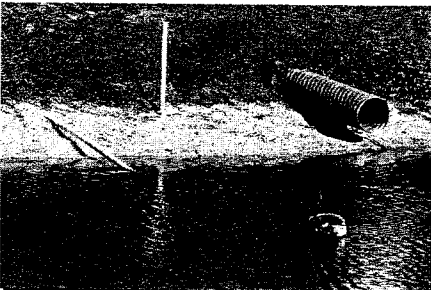
April 2007 Water Shortage Actions



- ┆ All water withdrawals from WCAs & regional canals by 298 Districts and other diversion & impoundment permittees are terminated
- ┆ Identification of “Utilities at Risk” & “Utilities of Concern”
- ┆ Initiated weekly monitoring of pumpage, water levels & chlorides at coastal utilities

25

April 2007 Water Shortage Actions

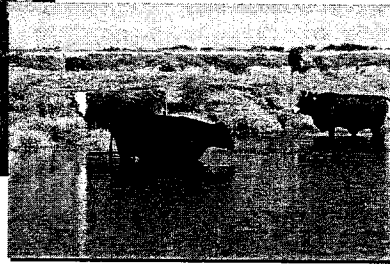
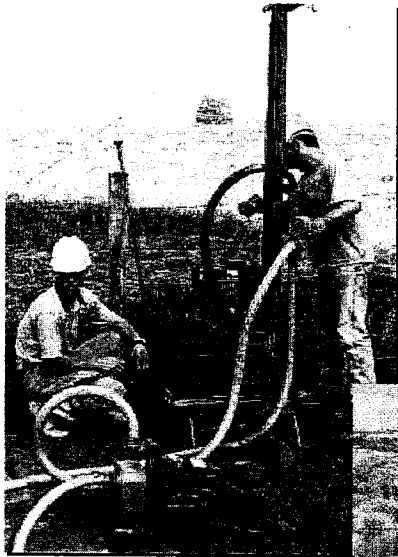


Additional Emergency Orders Issued:

- ┆ Lower East Coast and Lower West Coast
 - ┆ Two day per week lawn watering and other restrictions
- ┆ Upper East Coast
 - ┆ Three day per week lawn watering and other restrictions
- ┆ Istokpoga & Indian Prairie Basins Operational Water Delivery Plan

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April 2007 Water Shortage Actions



- ▣ **Emergency authorization provided for agricultural facilities**
 - ▣ **Excavation or deepening of livestock watering holes**
 - ▣ **Deepening of water wells & changes in withdrawal facilities**

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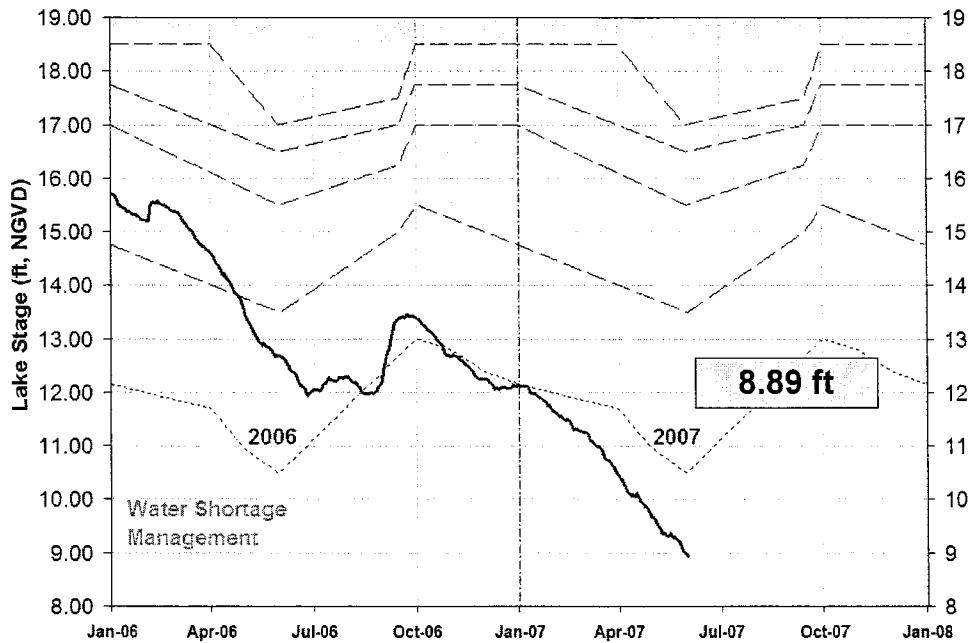
April 2007 Water Shortage Actions



- ▣ **Citizen Information Line activated – over 23,000 calls**
- ▣ **Aggressive enforcement program initiated**
- ▣ **Coordination with local governments on water restrictions in urban areas**
- ▣ **“Cop Shops” - training sessions for local law enforcement, utility and code enforcement officers**

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Lake Okeechobee Levels – May 2007



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May 2007 Water Shortage Actions

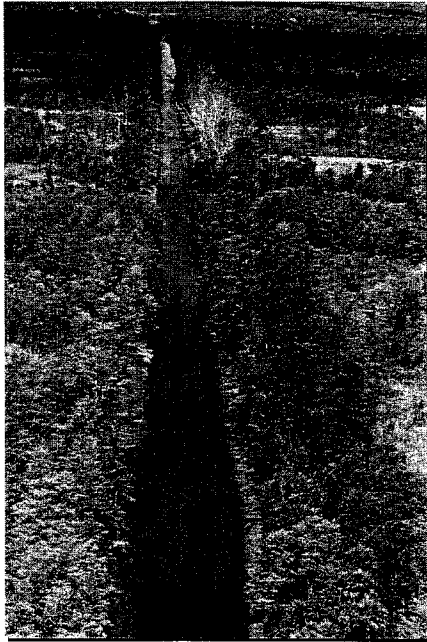


Additional Emergency Orders:

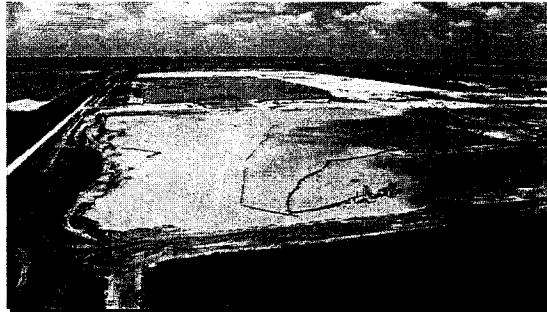
- Increased restrictions in Palm Beach & Broward Counties to one day per week lawn watering
- Continued two days per week water restrictions in Miami-Dade & Florida Keys
- Increased water restrictions to two days per week in St. Lucie and Martin Counties

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May 2007 Water Shortage Actions

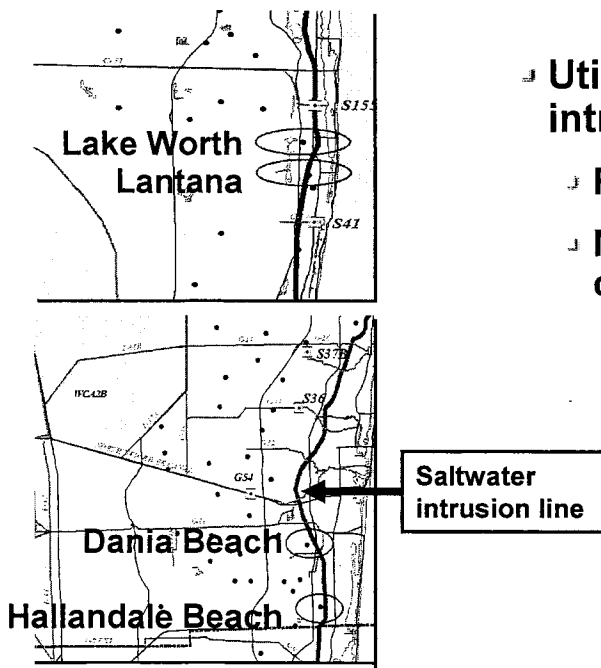


- Emergency Order to deliver water 20 miles to the City of West Palm Beach from the L-8 Reservoir Project
- One day per week water restrictions ordered by West Palm Beach



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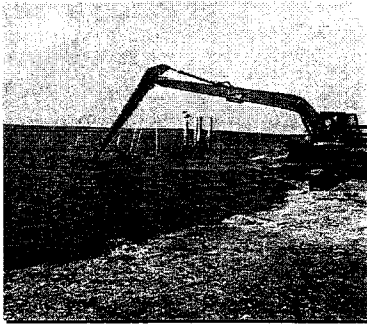
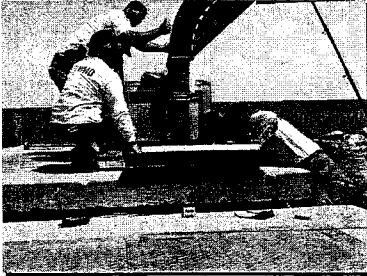
May 2007 Water Shortage Actions



- Utilities at Risk for saltwater intrusion required to:
 - Reduce or shift pumpage
 - Monitor water levels and chlorides weekly

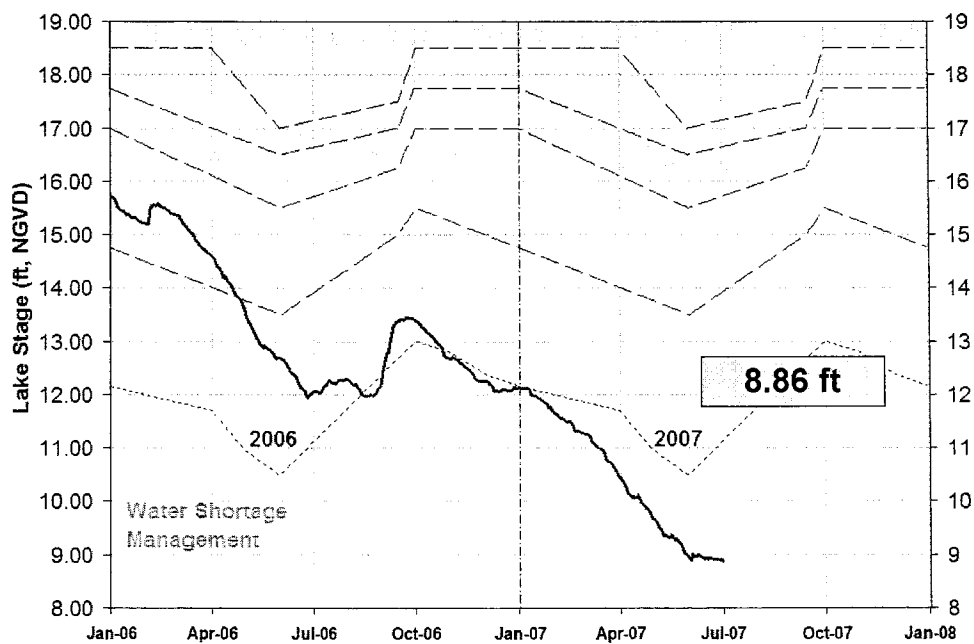
32

May 2007 Water Shortage Actions



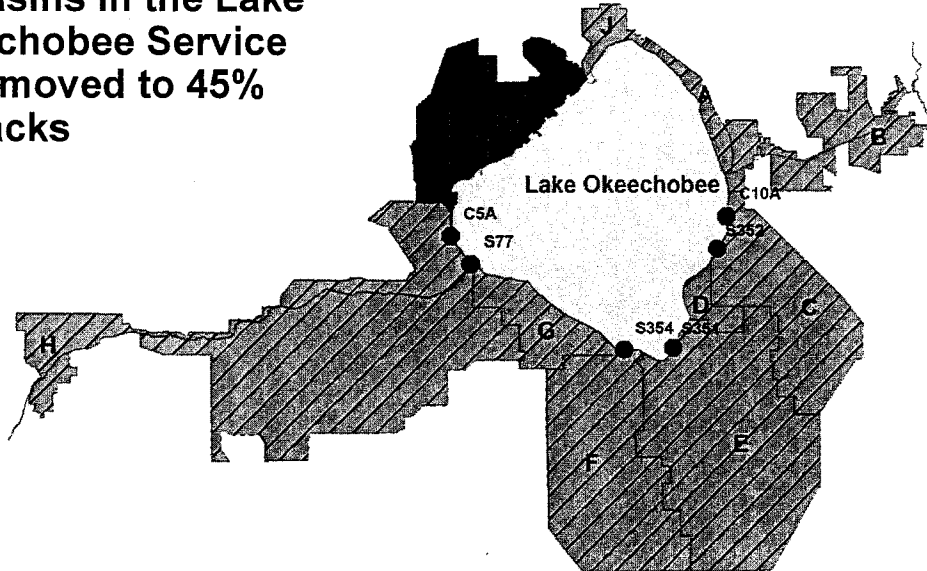
- ▬ Assistance to lakeside communities:
 - ▬ Inspected, repaired & retrofitted public water supply intakes for operation at low lake stages
 - ▬ South Bay – 4 feet
 - ▬ Pahokee – 4 feet
 - ▬ Belle Glade – 4 feet
 - ▬ Clewiston – 3.8 feet
 - ▬ Okeechobee – 3.5 feet

Lake Okeechobee Levels – June 2007



June 2007 Water Shortage Actions

- ↳ All basins in the Lake Okeechobee Service Area moved to 45% cutbacks



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June 2007 Environmental Enhancement Projects



- ↳ 2 million cubic yards of muck removed for improved habitat when lake rises
 - ↳ 100,000 loaded dump trucks
 - ↳ 3,000 acres
 - ↳ 140 tons of phosphorus

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June 2007 Environmental Enhancements Projects



10,000 acres of torpedo grass treated



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June 2007 Environmental Enhancements Projects

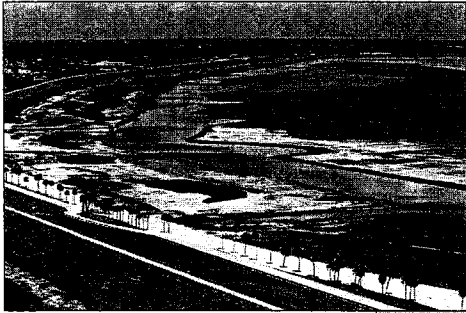


2,000 pond apples planted on Torrey Island



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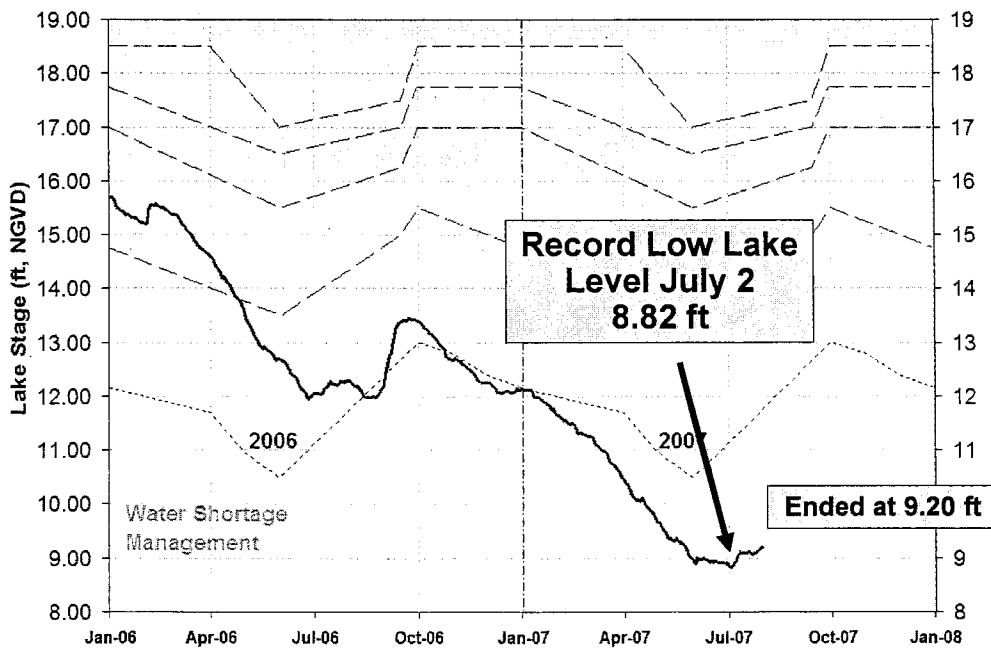
June 2007 Environmental Enhancements Projects



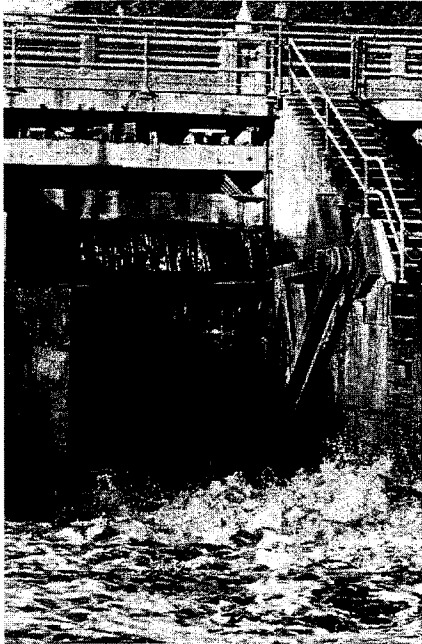
Removal of navigation hazards



Lake Okeechobee Levels – July 2007



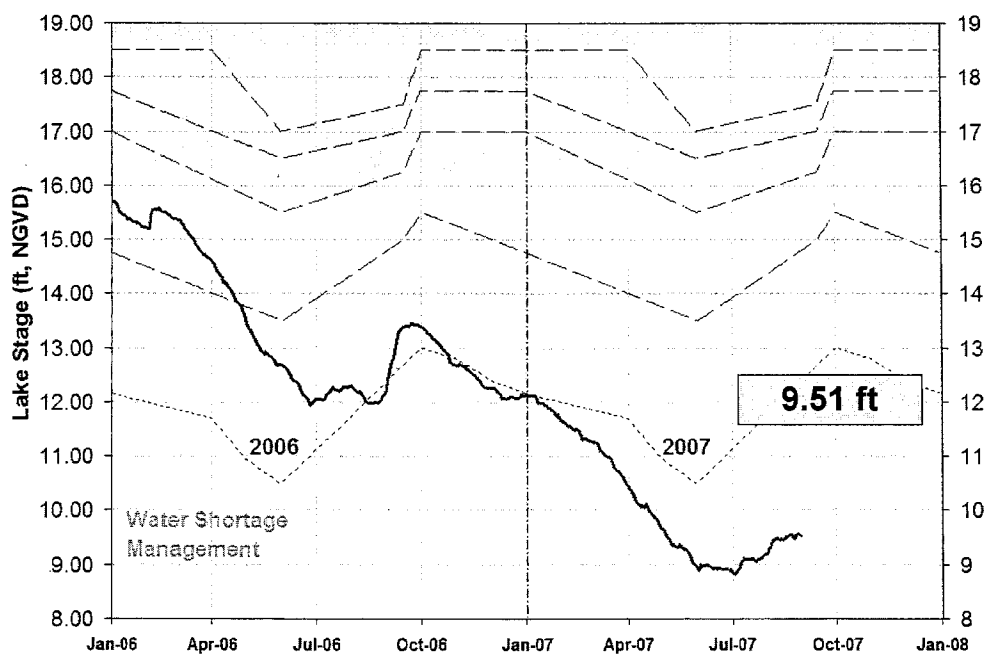
July 2007 Water Shortage Actions



- ▣ Two months of above average rainfall in coastal areas
- ▣ Discharges to tide to avoid flooding in coastal areas
- ▣ Water restrictions temporarily moved back to two days per week lawn watering in Lower & Upper East Coast

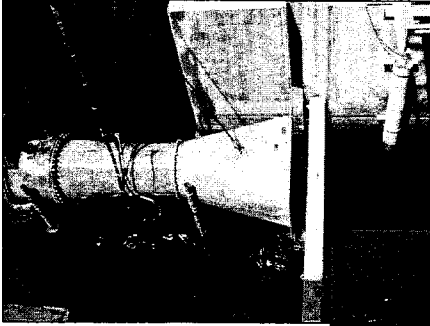
41

Lake Okeechobee Levels – August 2007

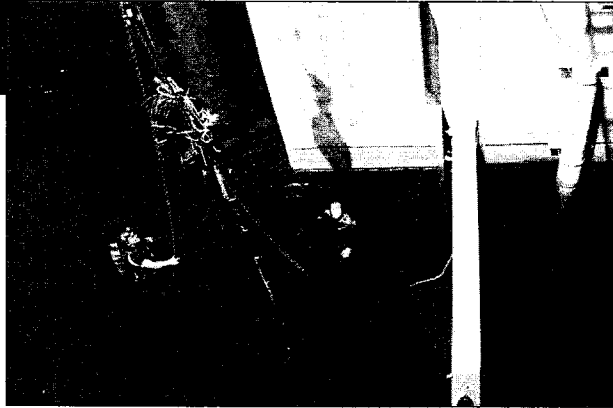


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August 2007 Water Shortage Actions

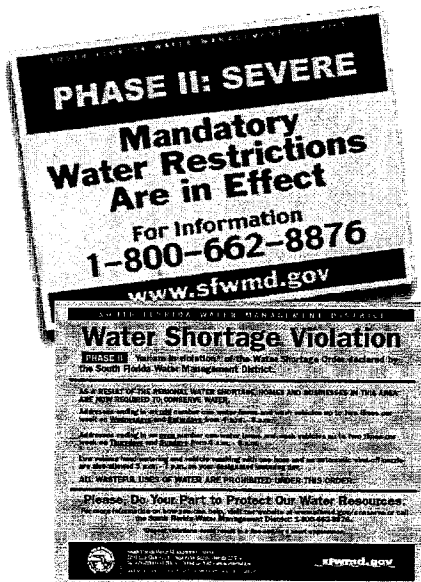


- Began removal of temporary forward pumps for maintenance & readiness check for next dry season



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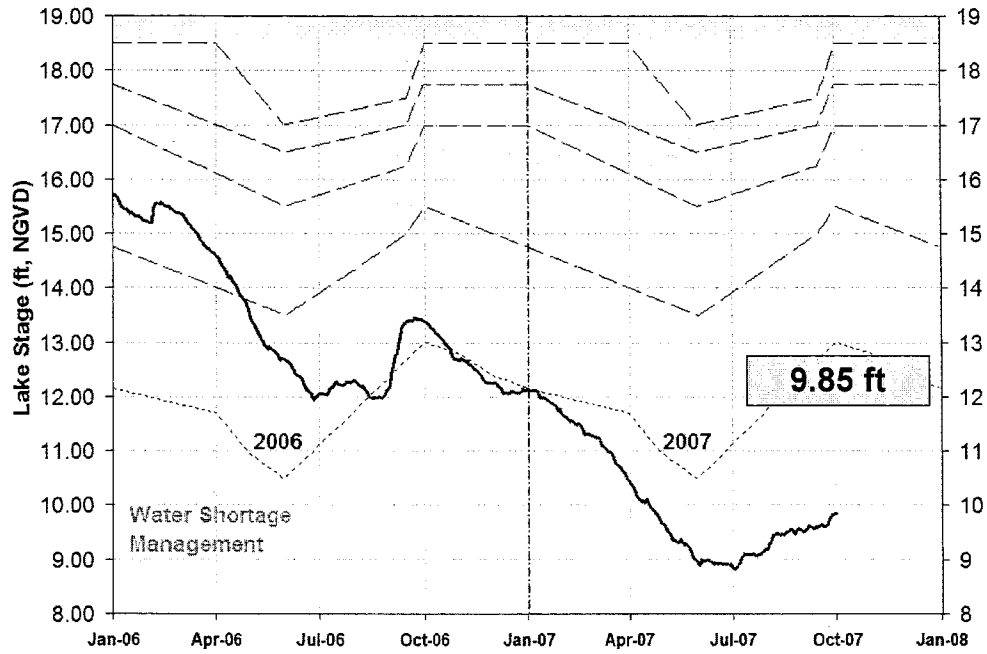
August 2007 Water Shortage Actions



- Strong cooperation by local government in enforcing residential water restrictions
 - +11,000 warning notices
 - +12,000 citations
- District enforcement of permitted water users
 - +700 Notices of Violation
 - +\$400,000 in civil penalties

44

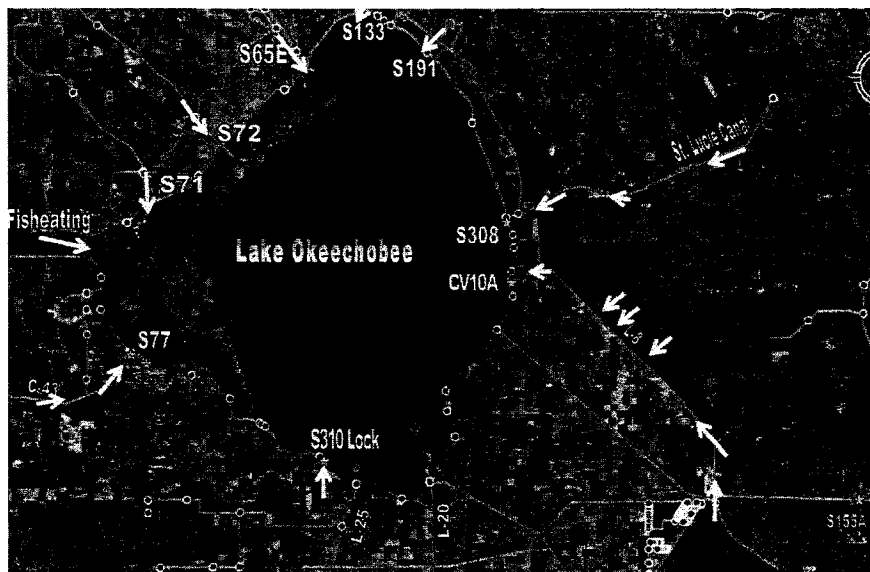
Lake Okeechobee Levels – September 2007



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September 2007 Water Shortage Actions

▣ Gravity flows to Lake Okeechobee



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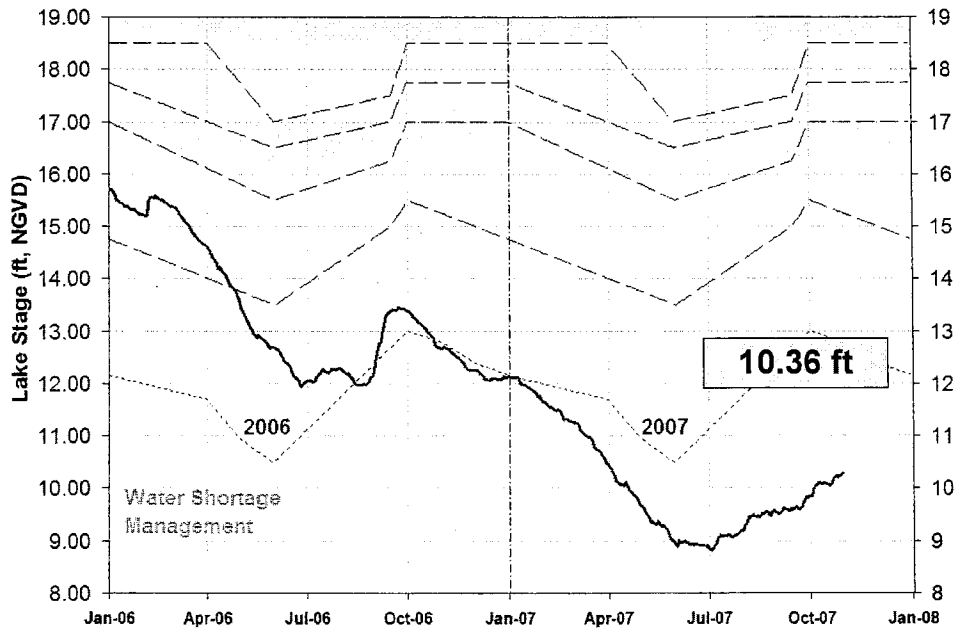
September 2007 Water Shortage Actions



- ▣ Capturing local stormwater
 - ▣ More than 5 billion gallons moved into local storage by 298 Districts & local governments to prevent loss to tide
- ▣ Additional temporary pumps installed at S-155A

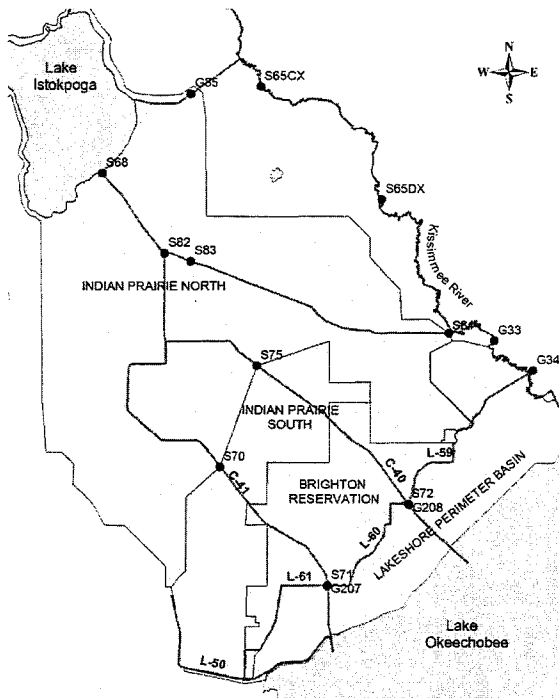
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Lake Okeechobee Levels – October 2007



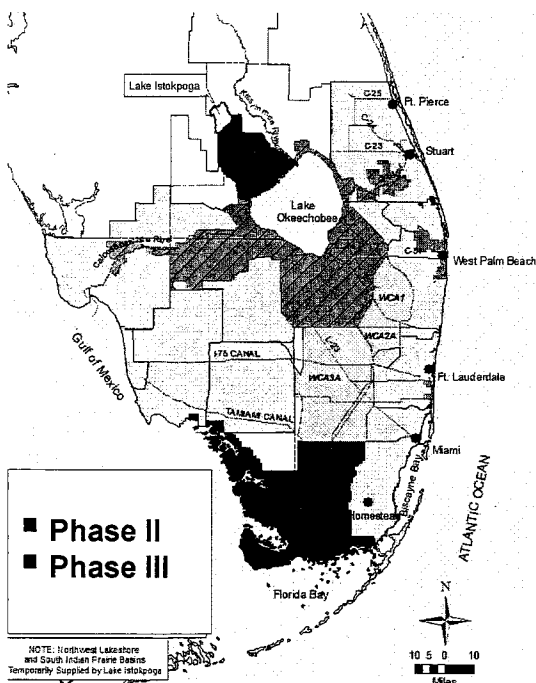
48

October 2007 Water Shortage Actions



- Lake Istokpoga below regulation schedule, withdrawals terminated
- Neither Lake Okeechobee or Lake Istokpoga available to supply water to basin or Seminole Tribe
- Only water sources are rainfall, canals & seepage
- Deviation requested from Army Corps of Engineers

Current Water Restrictions



Phase III – 45% cutbacks and one day per week lawn watering

- Lake Okeechobee Service Area
- Lake Istokpoga & Indian Prairie Basin
- Utilities at Risk

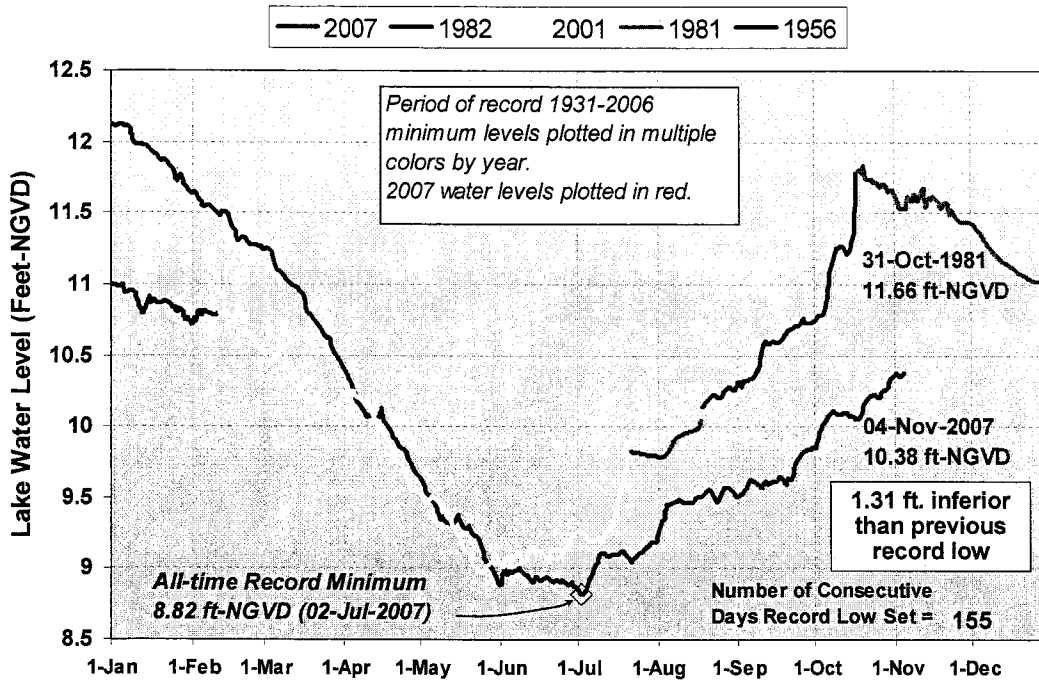
Phase II – 2 day per week lawn watering and other restrictions

- Lower West Coast

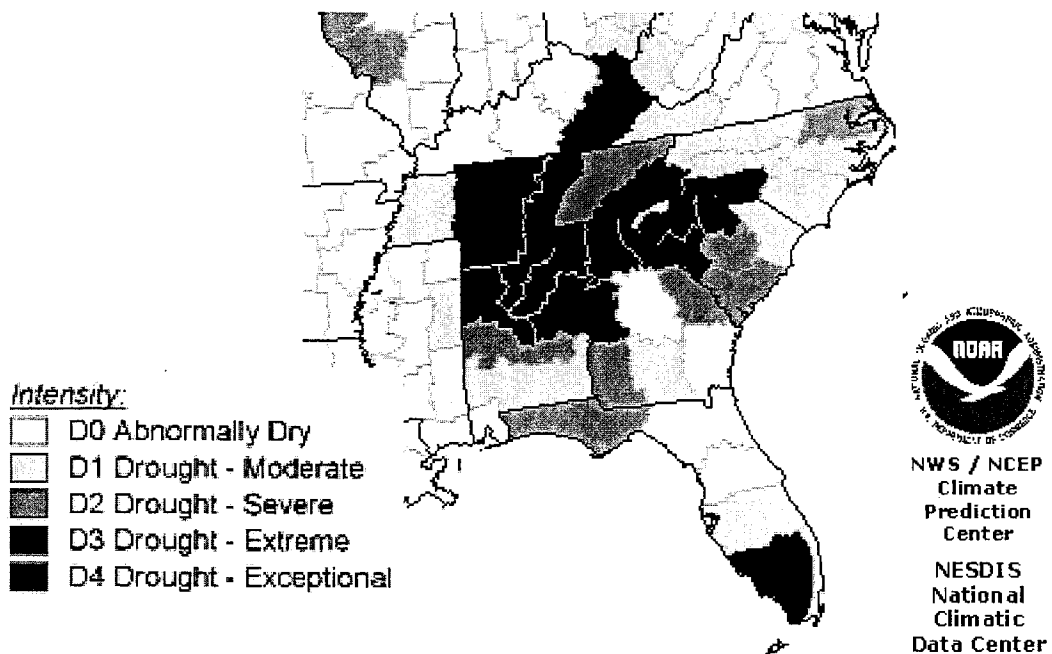
Modified Phase II – 2 day per week lawn watering

- Lower East Coast
- Upper East Coast

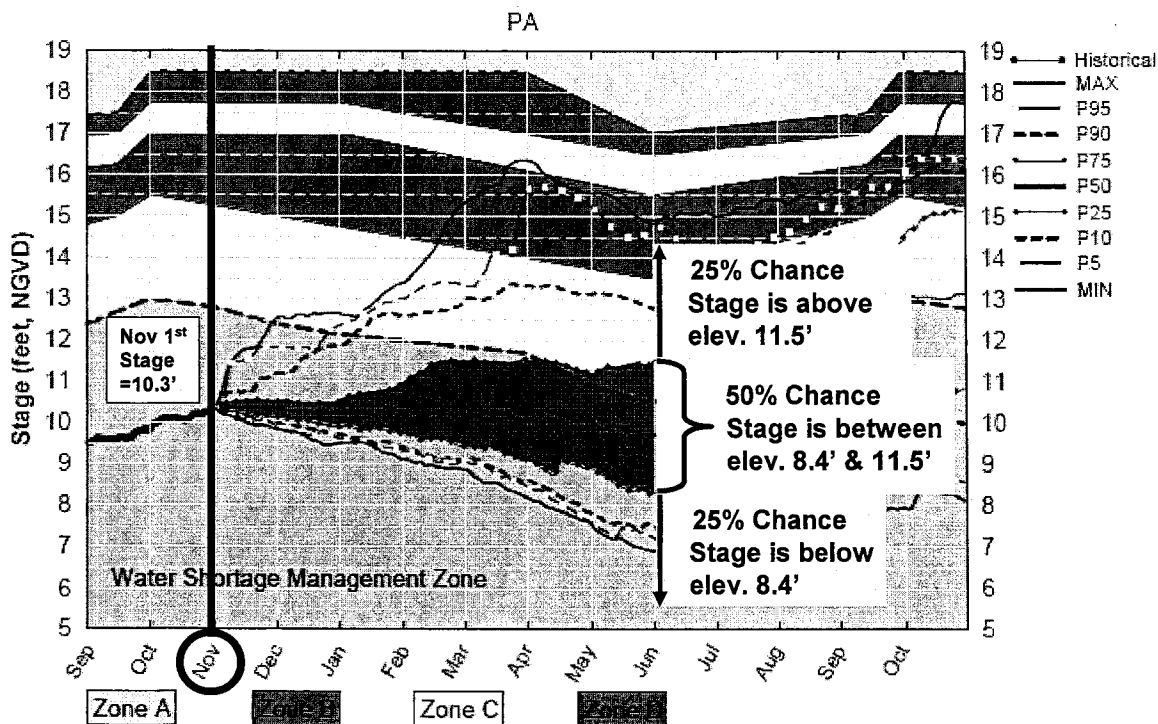
Lake Okeechobee Minimum Water Levels Period of Record 1931-2006



Long Term Drought Outlook



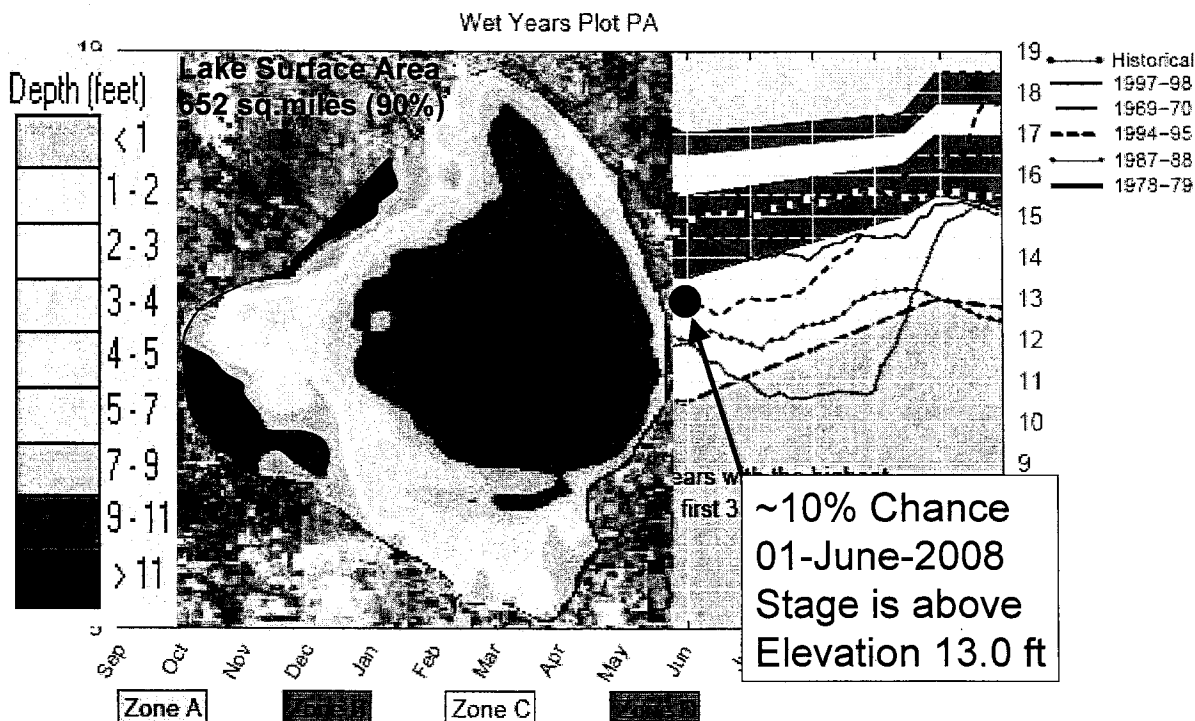
Lake Okeechobee SFWMM November 2007 Position Analysis



(See assumptions @ http://www.sfwmd.gov/org/pld/hsm/sfwmm_pa.html)

Fri Nov 2 13:37:23 2007

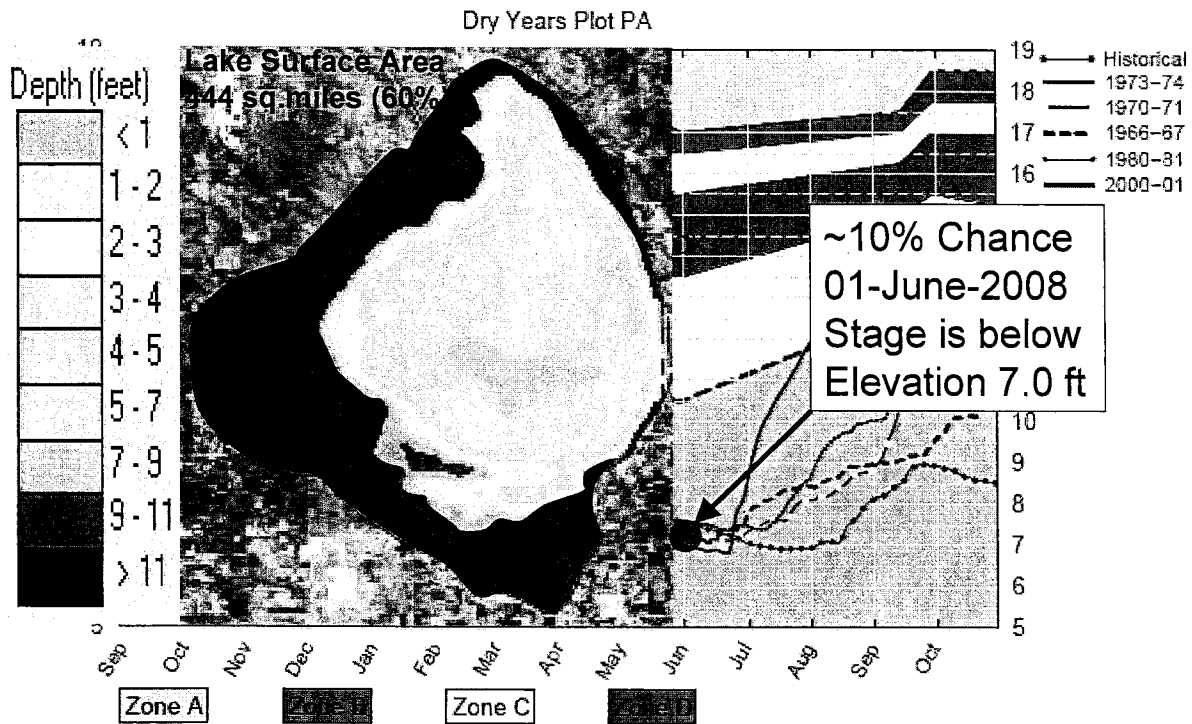
Lake Okeechobee SFWMM November 2007 Position Analysis



(See assumptions @ http://www.sfwmd.gov/org/pld/hsm/sfwmm_pa.html)

Fri Nov 2 13:37:38 2007

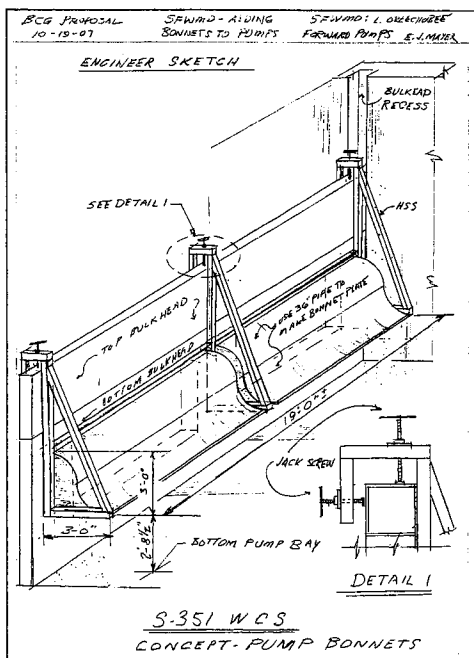
Lake Okeechobee SFWMM November 2007 Position Analysis



Fri Nov 2 13:07:35 2007

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Future Actions

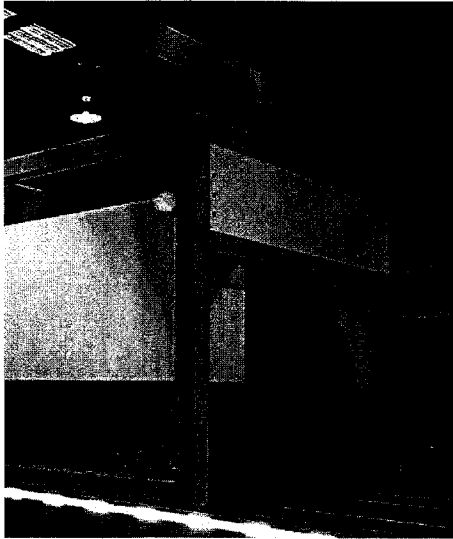


Temporary Pump Retrofits

- 1 Ensure pump operation down to lake stage of 7 feet
- 2 Design and fabrication underway
- 3 Pump test planned for December

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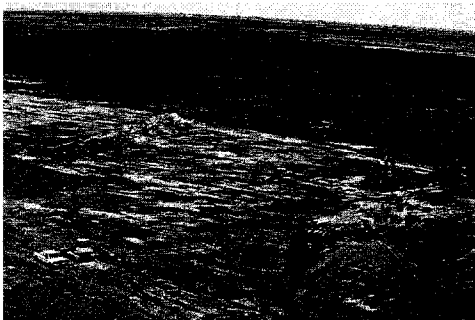
Future Actions



- ▣ **Evaluating Floating Pumps**
 - ▣ **Engineering feasibility study underway to consider floating pumps**
 - ▣ **May allow pumps to continue operating below lake stages of 7 feet**

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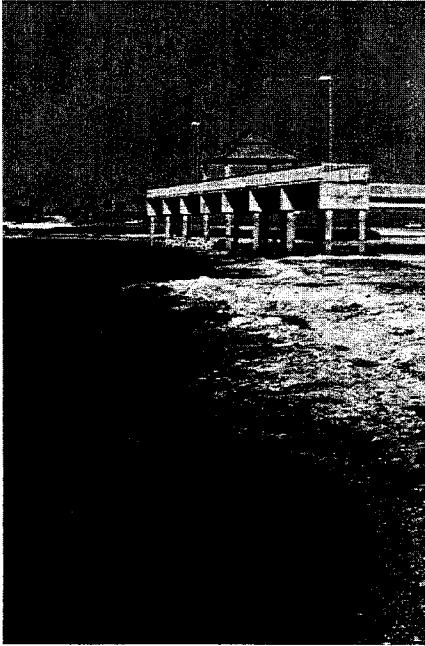
Future Actions



- ▣ **Planning for additional environmental enhancement projects**
 - ▣ **Expanded muck removal**
 - ▣ **Expanded treatment of exotic vegetation**
 - ▣ **Replanting of native vegetation**
 - ▣ **Restocking of native apple snails**

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Future Actions



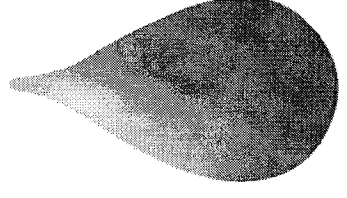
- Operating regional water management system to conserve water
- Continued coordination with agricultural interests
- Request extension of deviations for Water Conservation Areas & Lake Istokpoga
- Assist local governments and utilities to meet emergency water supply needs
- High likelihood of increased water use restrictions

Questions?



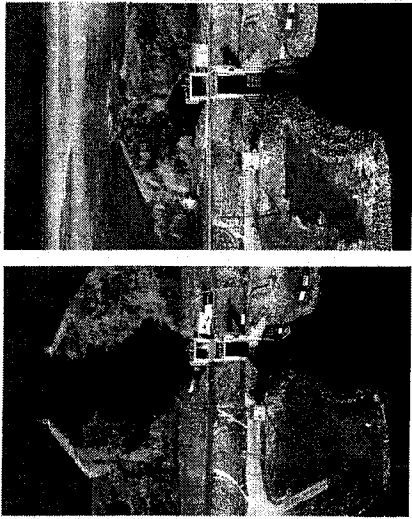
Drought Overview

A Chronology of Drought-Related Activities and Current Analysis



November 5, 2007
Florida Department of Agriculture – Division of Marketing
Charles Bronson, Commissioner

2007



Lake Okechobee boat lock

ENVIRONMENT

Dry Counties

Brown golf courses. Record low levels in Lake Okechobee. For the first time, once-a-week lawn watering restrictions in Broward and Palm Beach counties. Twice-a-week watering in Martin and St. Lucie counties. Saltwater threatening freshwater aquifers.

The spring of 2007 saw south Florida turn a corner with respect to water, as the prospect emerged that taps in the region could actually run dry. After 17 months of drought, temporary inconveniences that once extended only until the next rainy season are likely to become much more permanent. At the least, water restrictions will continue indefinitely. Could they tighten?—If our rainy sea-

Major vegetable growing areas face restricted water use.

By Doug Oulivarez
Feature Editor

A long-running drought that has reduced Florida's rainfall by half threatens the state's growers-shippers. The drought has cut green bean yields and early spring sweet-corn volume.

The drought, one of the most severe in the state's history, has gripped all of Florida, with southern districts in the most critical stages. Government and water management officials have ordered water restrictions that require agriculture users to cut their usage by 45% in south Florida, the state's largest vegetable growing region.

Unless south Florida receives significant rainfall by the end of May, the state may repeat history and have another severe drought like the one it experienced in 2001, said Mike Stuart, president of the Florida Fruit & Vegetable Association, Maitland.

"It's a very serious and significant situation," he said. "We're feeling the effects of this serious drought."

Stuart said the industry hopes to make it

The Kiplinger Letter

FORECASTS FOR MANAGEMENT DECISIONMAKING
1729 H St. NW, Washington, DC 20006-3938 • kiplingerbiz.com • Vol. 84, No. 25

Dear Client:

Get used to living with less water. Severe droughts are here to stay. Worst off: The South and West. But other areas also must learn to cope with less rainfall. The shortage is not yet a crisis, and with planning, it won't ever become one. But it still means lots of big changes.

WATCH

Conservation will be the new norm. Higher prices will help make it happen. Consumers, both business and residential, will pay more...in some places, a lot more, with rates that'll escalate as use increases.

Washington, June 22, 2007

ECONOMIC FORECASTS	
GDP	2% for the year
Interest rates	Primes ending '07 at 6.25%
Inflation	About 2.5% for the year
Employment	15 million more jobs
Trade deficit	Narrowing to \$761 billion.

Florida drought leads to lower yields

through the spring without any major disruptions, though water restrictions hamper growers' ability to grow and transport their crops.

GREEN BEANS. CORN TAKE A HIT: Paul Allen, vice president and partner with R.C. Hutton Farms, one of the state's largest vegetable growers, said the drought has cut south Florida green bean yields by up to 20%.

"It has been very tough," he said. "It's the worst one (drought) I've seen."

The drought, Allen said, hasn't harmed corn or green bean quality.

Because R.C. Hutton grows most of its sweet corn on land not close to Lake Okechobee, the region's primary backup water source, Allen's corn, which is marketed through Pahokee, Fla.-based Hugh H. Branch Inc., hasn't seen big losses, he said.

Even with the 20% loss, the region should produce high volumes of green beans as well as plenty of corn, he said.

Garrett Griffin, a salesman with Heile Cattle sweet corn shippers S.M. Jones & Co. Inc., said the three inches of rain the region received in early April substantially helped ease the drought's pressure.

That recent rain, Griffin said, should cut

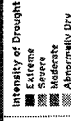
since imposed on our yields," he said. The moisture shortage hasn't affected central Florida's spring tomato crop, which was starting in small volume April 25.

Keeping the Innisfree and Palmto-Ruskin brand deals from overlapping this spring has been one side benefit of the drought, Heller said.

FULL EFFECTS NOT KNOWN: Lisa Lechridge, FFA's director of public affairs, said it is too early to estimate how much damage the drought has caused. Although there haven't been any apparent major problems yet, she said she thinks some effects may become visible by the end of May.

This season's drought is a serious threat to Florida's crops, warns Florida Agriculture Commissioner Charles Bronson.

"Agriculture is Florida's second-largest industry, and 40% of our cash receipts come from farms in the South Florida Water Management District," Bronson said at an April 13 state water meeting. "With many farms facing the hiccups we're seeing, agriculture already is seeing significant economic impact, and a continued drought could result in hundreds of millions of dollars in losses."



You can't wash your face.

Bucks from Congress will help, but the main burden will fall on local leaders, individuals and firms. (More on page 2.)

The Kiplinger Letter (ISSN 1528-7452) is published weekly by The Kiplinger Letter Group, Inc., 1729 H St. NW, Washington, DC 20006-3938. POSTMASTER: Send address changes to The Kiplinger Letter, P.O. Box 6255, Falls, IL 62521.

Subscription inquiries: 603.544.6155 or skiplinger@kiplinger.com. Editorial inquiries: 202.262.6000 or editor@kiplinger.com. General correspondence: info@kiplinger.com.

U.S. Drought Monitor

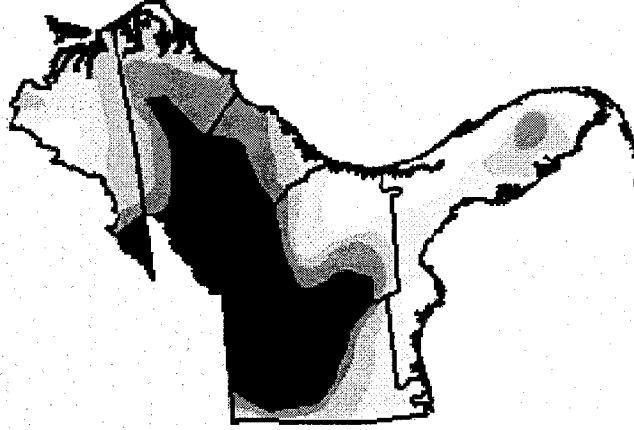
Southeast

October 30, 2007
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	14.8	85.2	66.7	46.3	31.3	18.5
Last Week (10/23/2007 map)	13.6	86.4	73.6	64.3	50.0	31.4
3 Months Ago (08/07/2007 map)	2.4	97.6	78.1	42.9	26.4	14.1
Start of Calendar Year (01/02/2007 map)	52.2	47.8	10.2	1.5	0.0	0.0
Start of Water Year (10/02/2007 map)	10.1	89.9	77.9	63.8	45.2	24.0
One Year Ago (10/31/2006 map)	48.1	51.9	21.8	0.0	0.0	0.0

Intensity:



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements

<http://drought.unl.edu/dm>



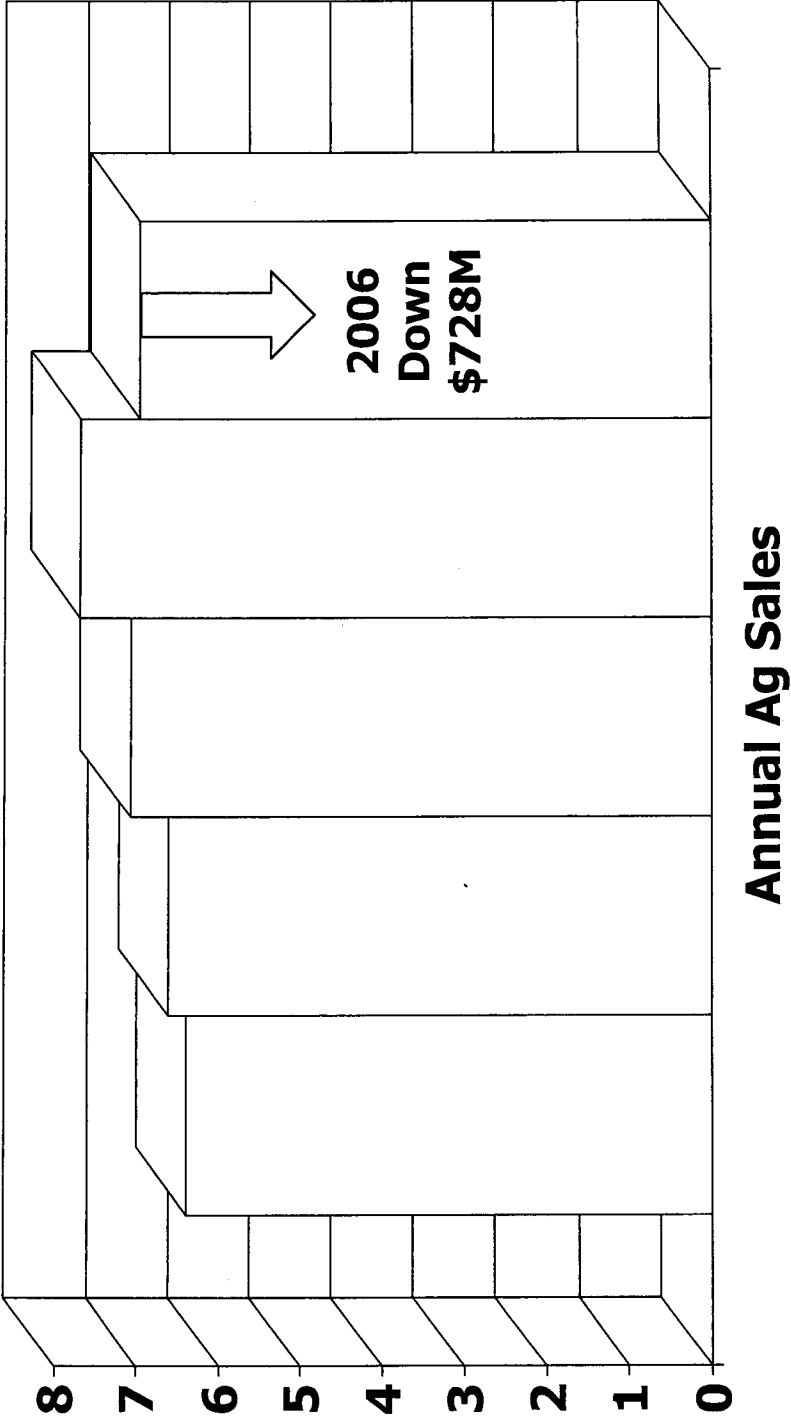
Released Thursday, November 1, 2007
Author: Douglas Le Comte, CPC/NOAA



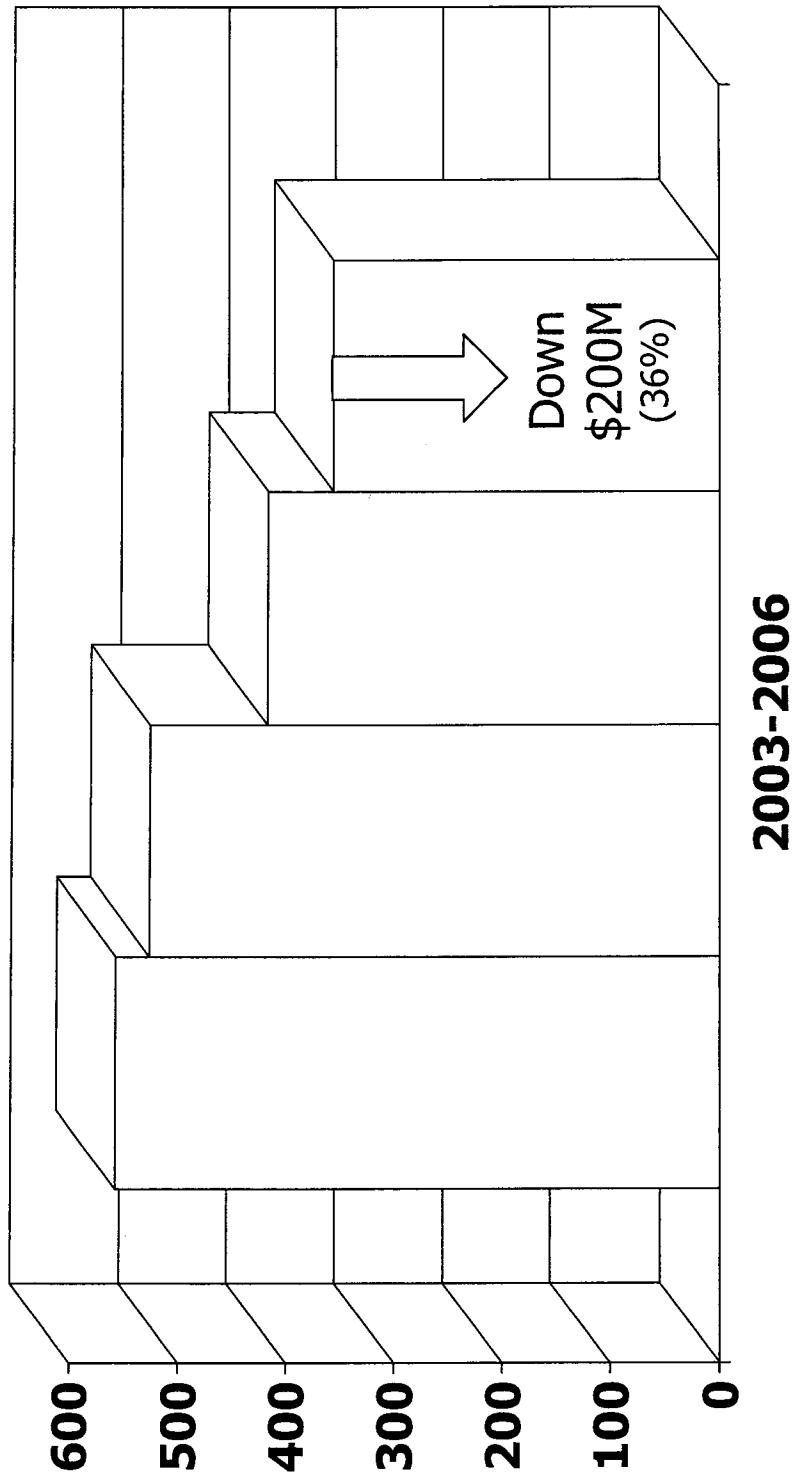
Two Years and Counting

- November of 2005
- Moderate to Severe Drought
- 5' Below Historical Average
- "High Probability of EOC Activation During Dry Season"

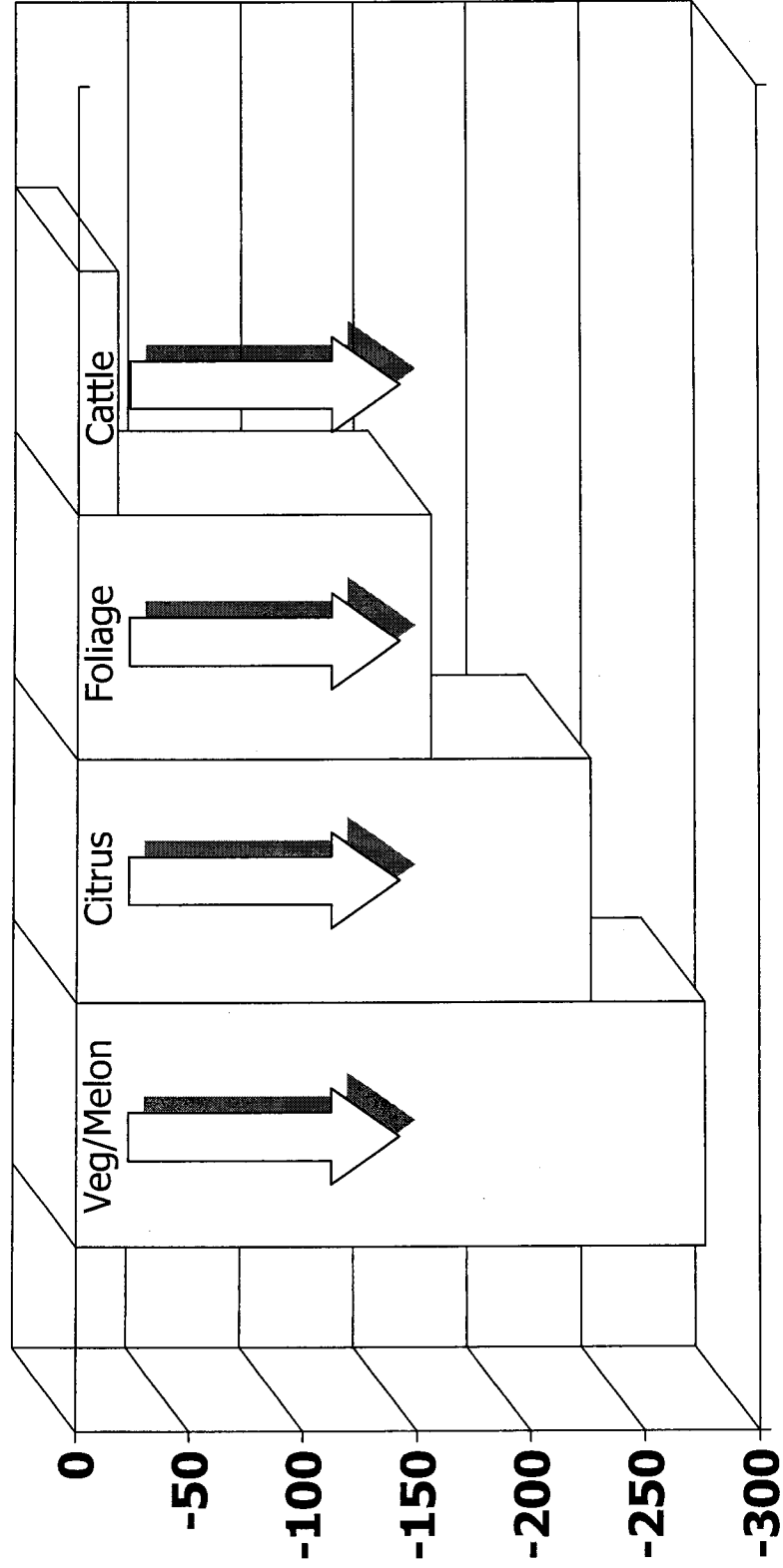
Florida Cash Receipts Down



Sugar Industry



Other Sector Losers 2006



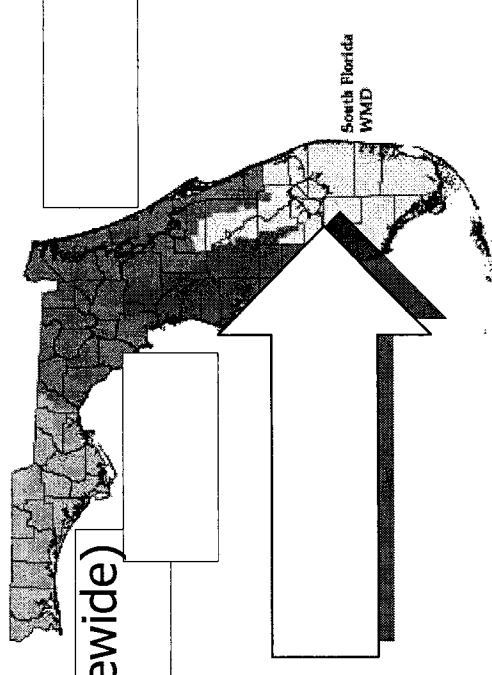


Agriculture in Florida

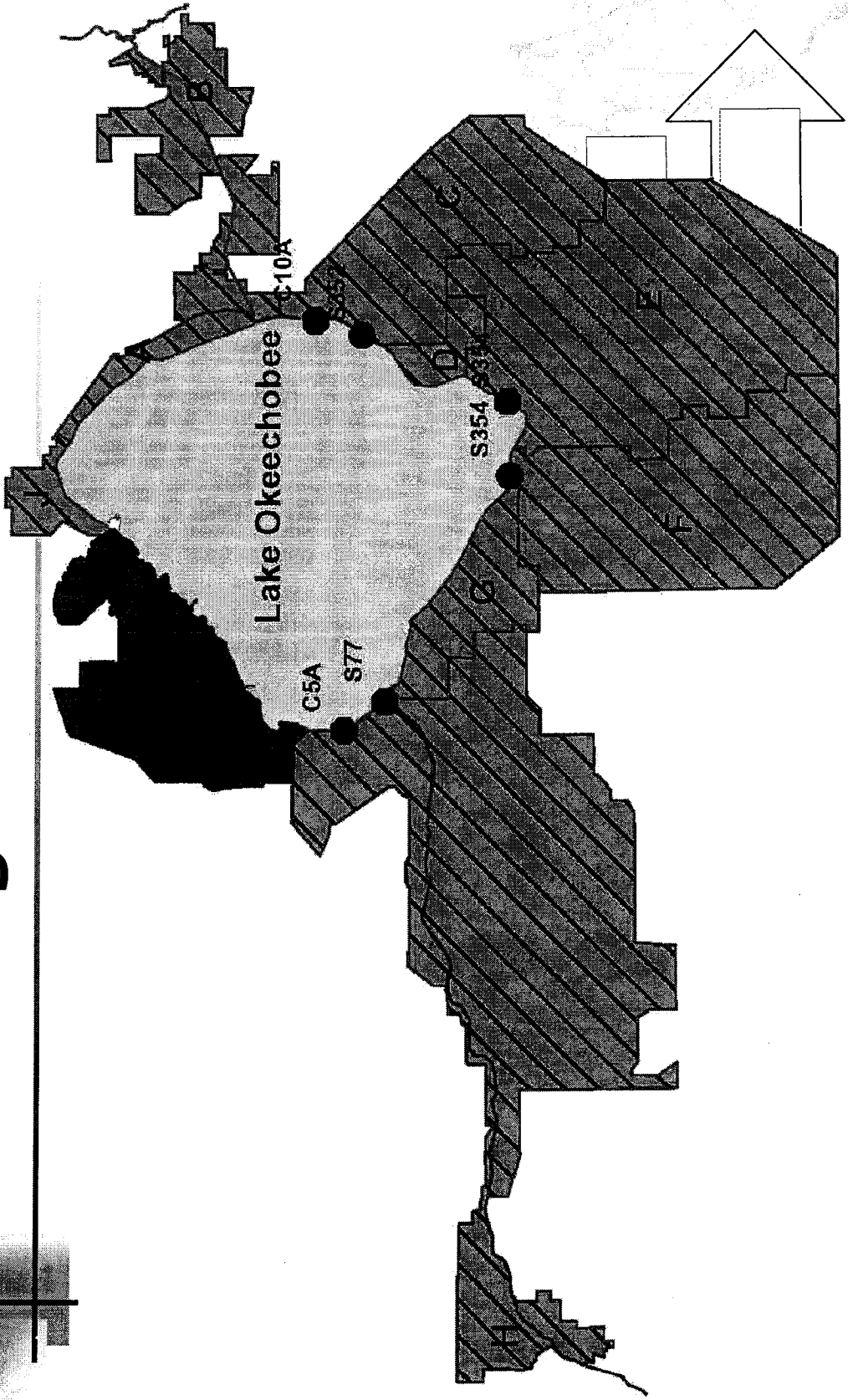
- 2nd Largest Industry in the State
- 41,000 Farms Statewide
- Jobs 769,224 (Direct and Indirect Employment)

SFWMD Agriculture

- 1.8M Acres (excluding 2.2M in Pasture)
- \$3.2B Direct Cash Receipts
- \$7.6B Total Economic Impact
- 108,000+ Jobs
- 43% of all Cattle (1.7M Statewide)
- 61% of State's Citrus

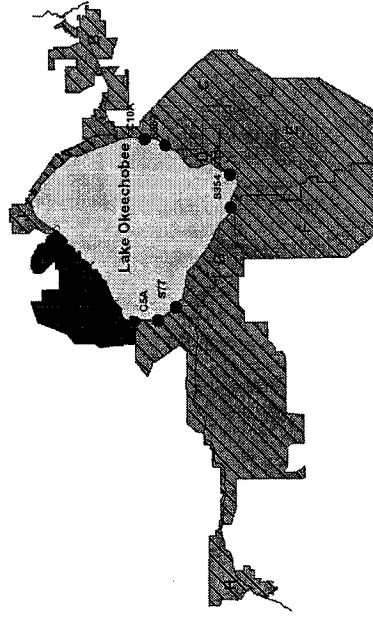


LOSA Agriculture



LOSA Agriculture

- 32% of SFWMD District Ag
- 700,000 Acres
- \$1.03B Cash Receipts (15% of State's Total)
- 34,000+ Jobs



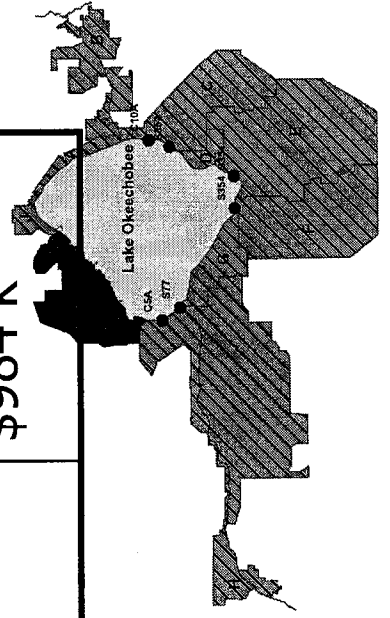
May 2006

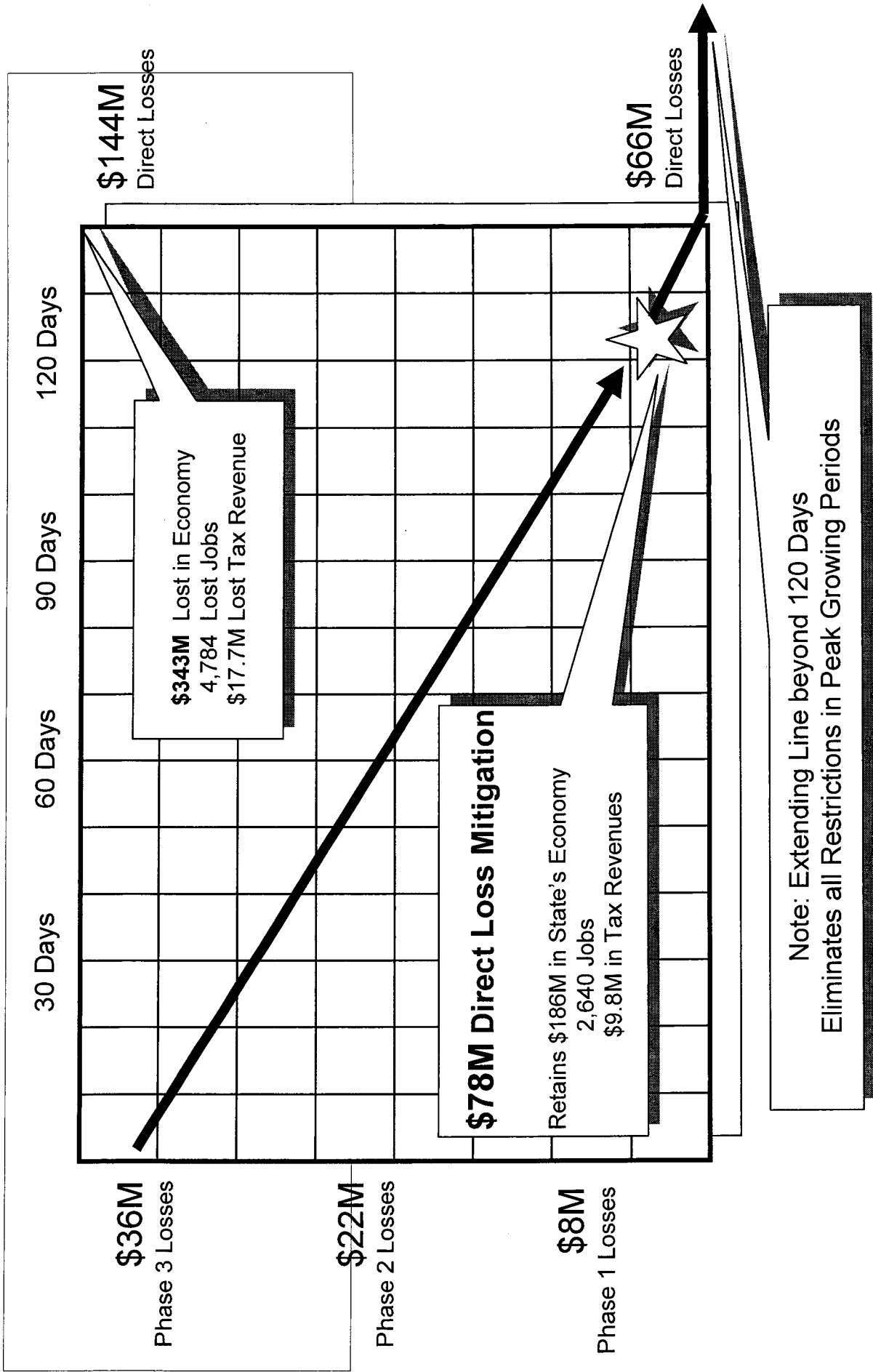
Table I									
Estimated Impact Of Drought									
Florida Department of Agriculture									
Line	Description	Livestock	Citrus	Fruit/Vegt	Horticulture	Field			
1	2005 USDA					Crops			
	FI Cash Receipts (\$Mn)	\$1,453.4	\$1,639.5	\$1,856.7	\$976.0	\$580.5			
2	Est % in SFWMD	41.9	64.9	40	38	78			
3	Est Cash Receipts	\$608.9	\$1,064	\$742.7	\$370.9	\$452.8			
4	Total SFWMD	\$3,239.3					Implan Multipliers (Averaged)		
5	Phase I, II & III	\$Millions of					Loss Output	Loss Local	Individual
	Apr-May (Current)	Loss Dollars					Total Effect	/State Taxes	sectors have
		(Output)					(Avg 33.3)	(\$2800 per job)	different
6	% Exposed (24%)	\$777.4							exposure
7	Low Impact (1-3%)	\$15.5	516	\$35.03	\$1.45Mn				tolerances.
8	Moderate Impact (4-7%)	\$42.8	1425	\$96.73	\$3.99Mn				
9	Severe Impact (8-10%)	\$69.9	2327	\$157.9	\$6.52Mn				
Estimated Average Per Month									
Range Of Impact (SFWMD)									
Of Severe Adverse Weather Conditions									
	Loss Output (Cash Receipts)		\$7.77Mn - \$34.95 Mn						Low-Moderate-Severe
	Loss Of Jobs		258 - 1,163						Compounded monthly depending
	Loss to Economy (Total Effect)		\$17.5 Mn - \$78.9 Mn						upon duration of event Does not
	Loss of Taxes (Local/State)		\$.725 Mn - \$3.26 Mn						include approximately 60% of
									the agriculture industry

30-Day Loss Scenarios

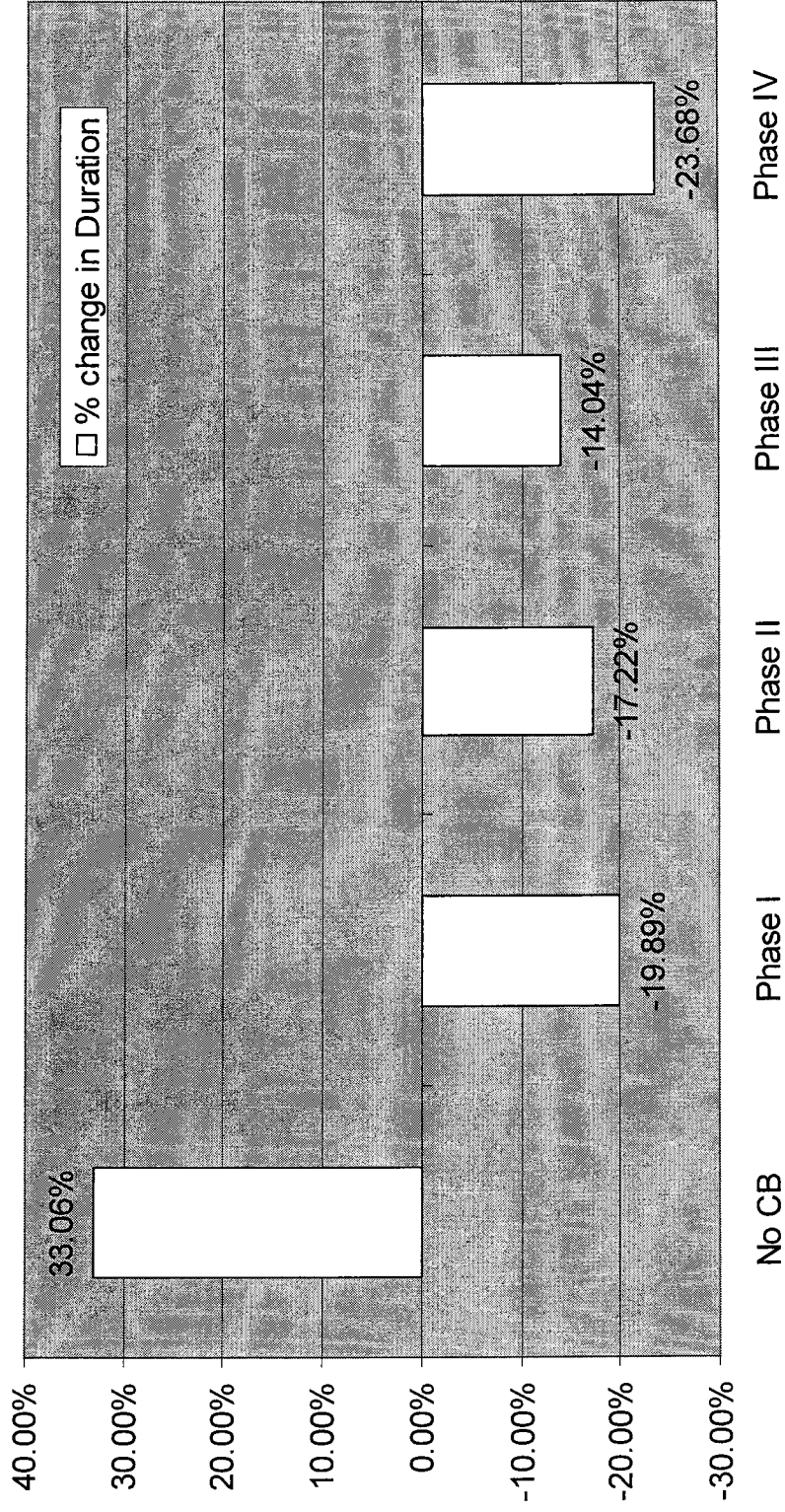
Under Various Water Restrictions – LOSA

30 Days	Direct	Total	Jobs	Tax Revenue
Phase III	\$36 M	\$86 M	1,196	\$4.4 M
Phase II	\$22 M	\$52 M	731	\$2.7 M
Phase I	\$8 M	\$19 M	266	\$984 k



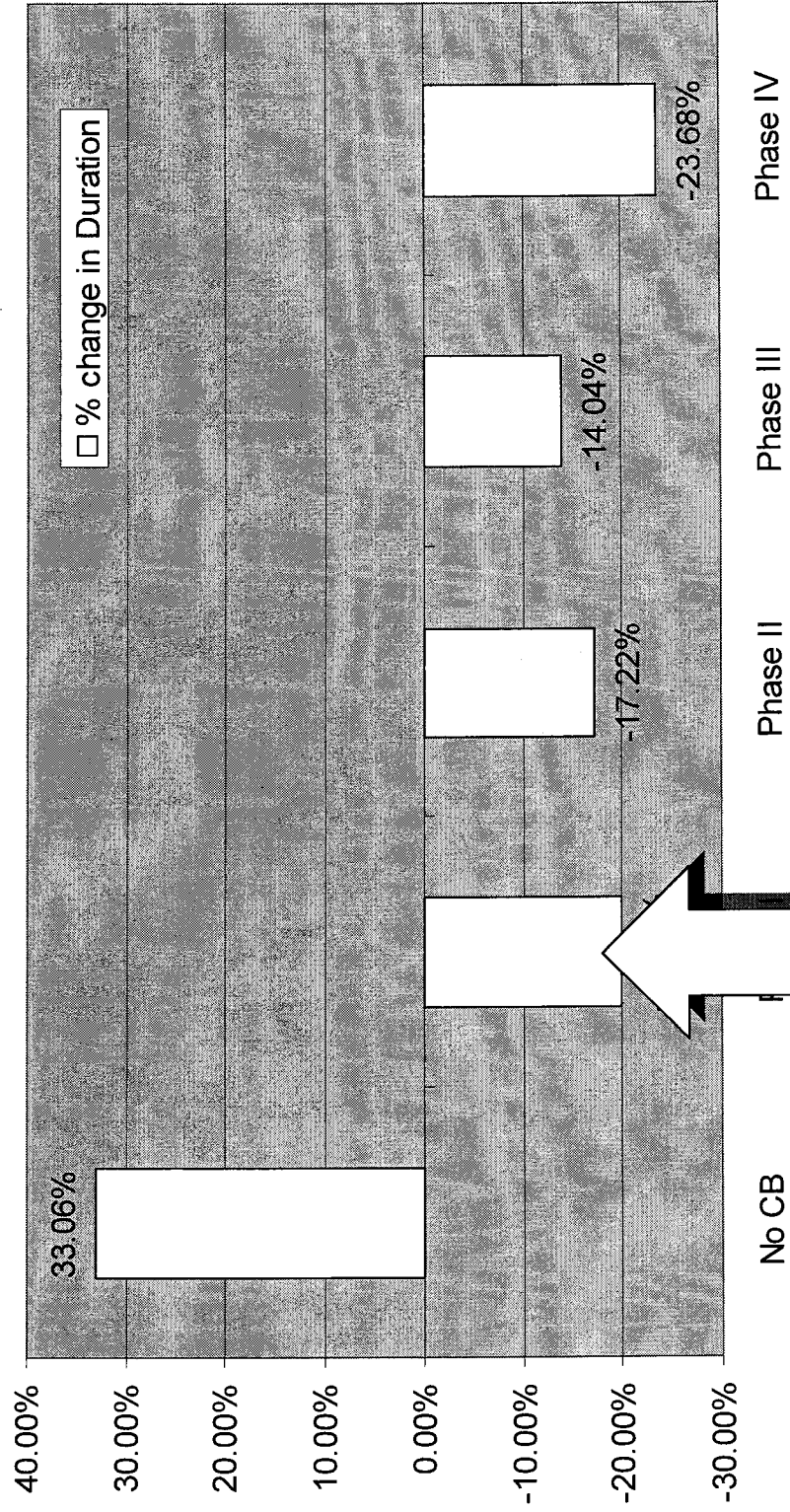


% Change in Duration due to WS Back Pumping



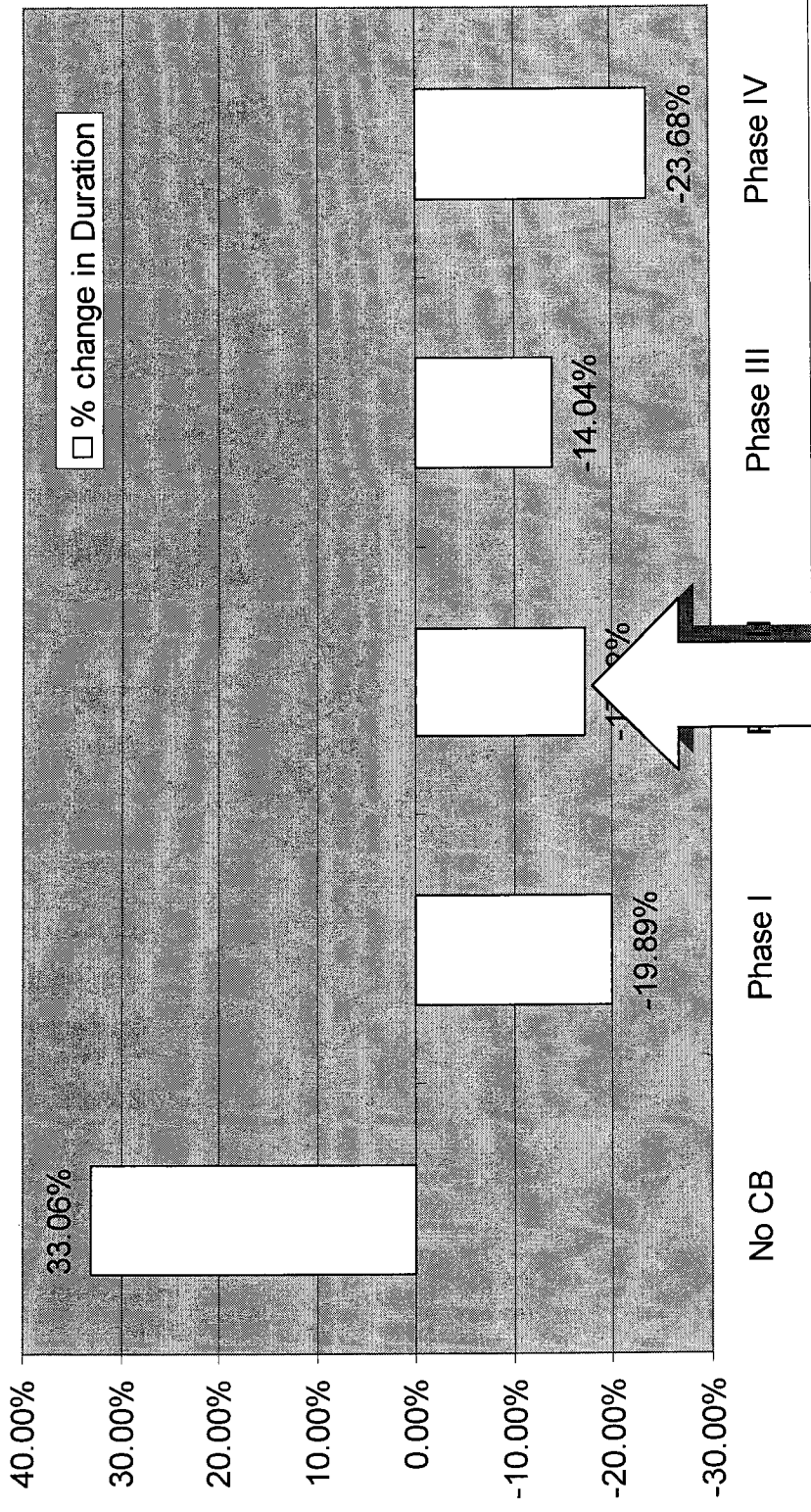
SFWMD Chart

% Change in Duration due to WS Back Pumping



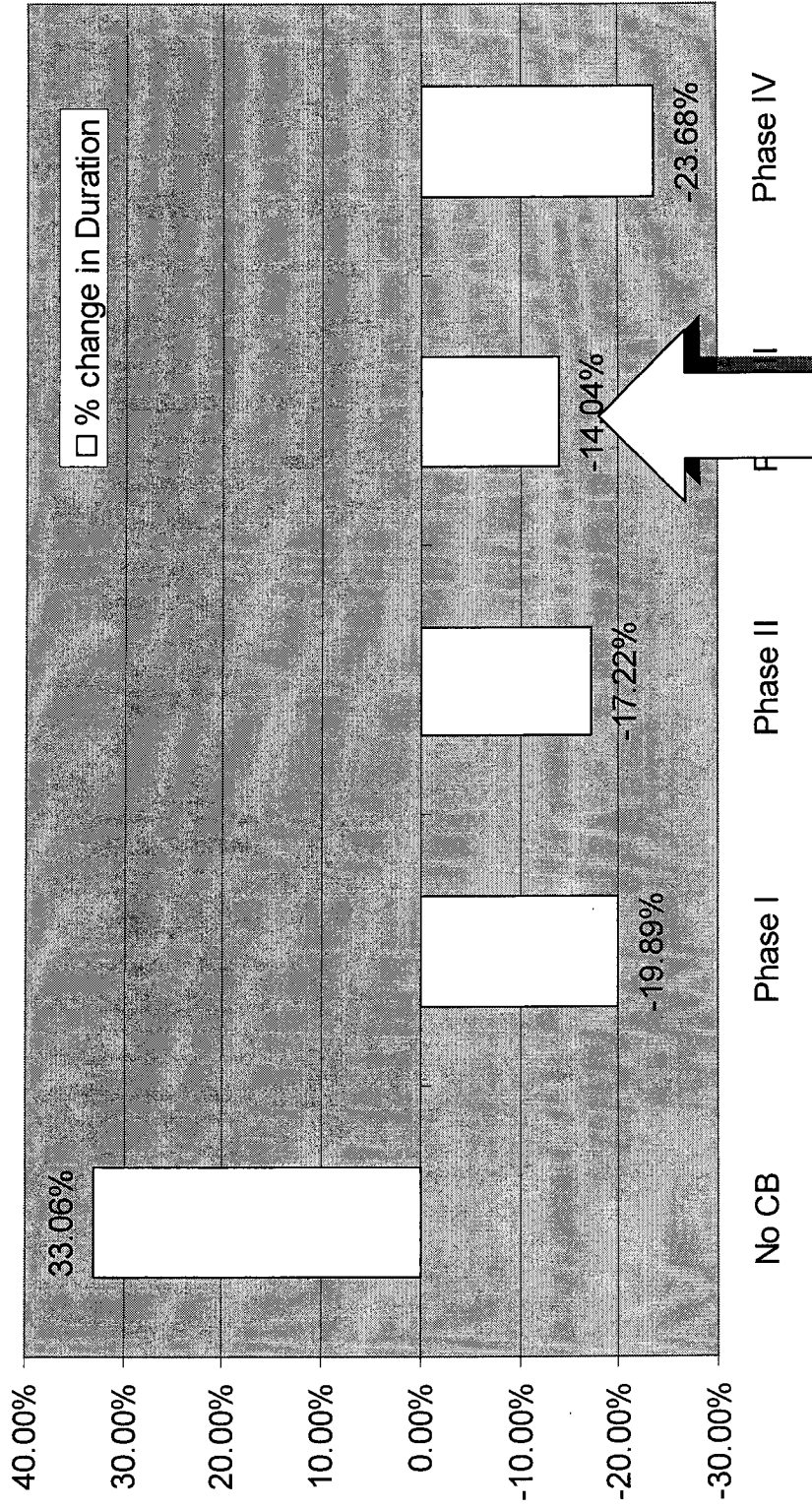
17 Days

% Change in Duration due to WS Back Pumping



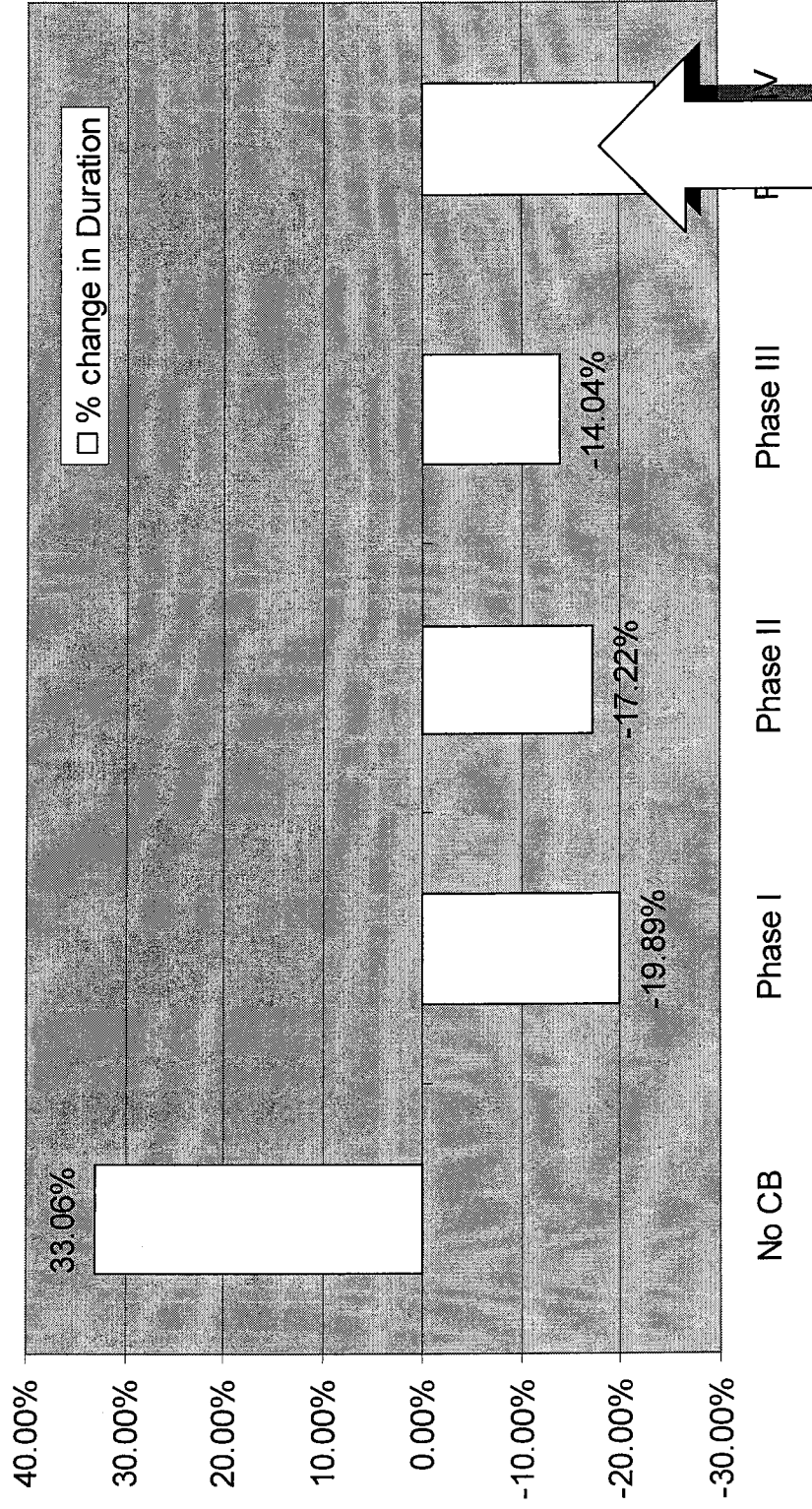
17 Days 15 Days

% Change in Duration due to WS Back Pumping



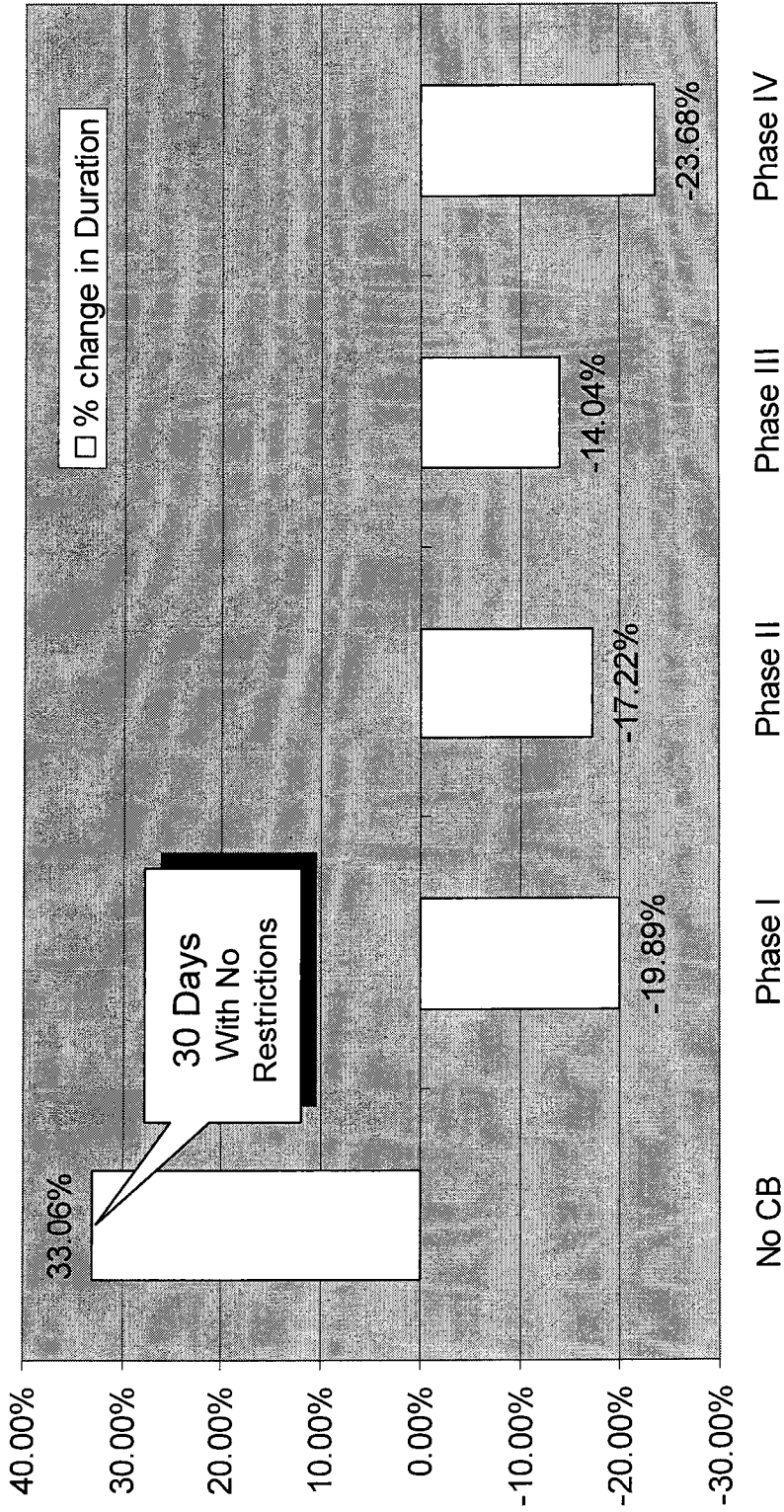
17 Days 15 Days 12 Days

% Change in Duration due to WS Back Pumping

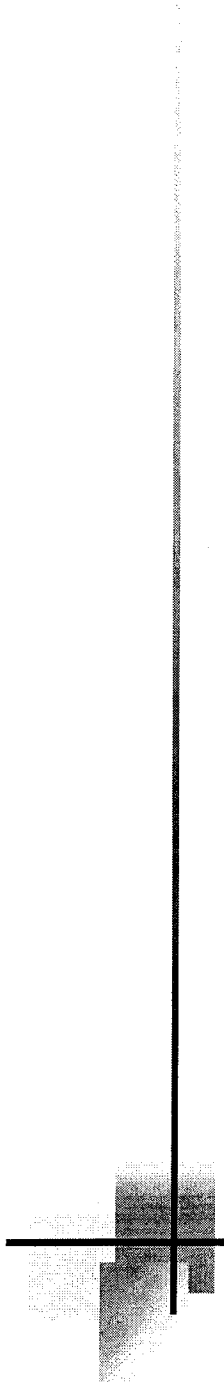


17 Days 15 Days 12 Days 21 Days

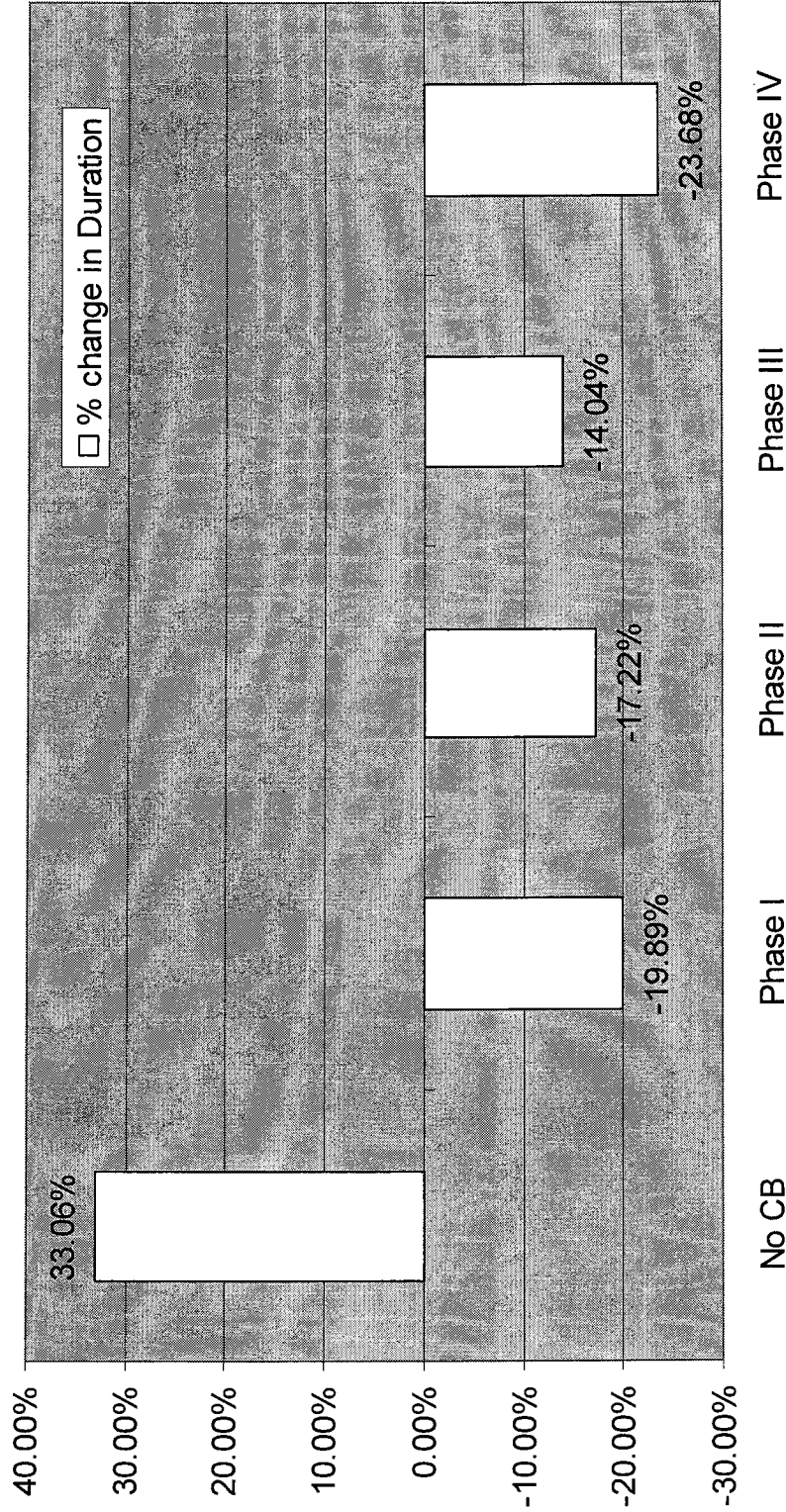
% Change in Duration due to WS Back Pumping



Total 65 Days

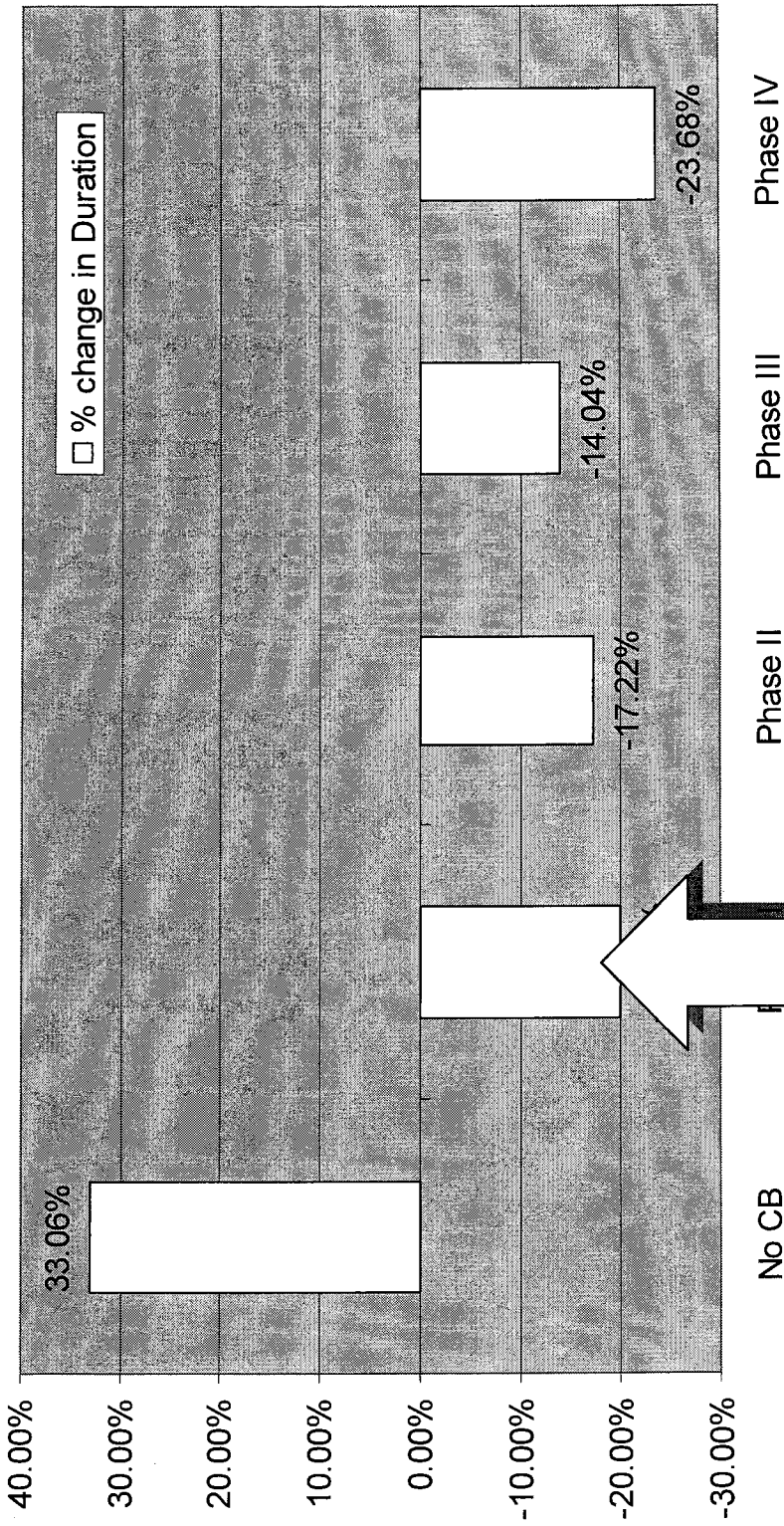


% Change in Duration due to WS Back Pumping



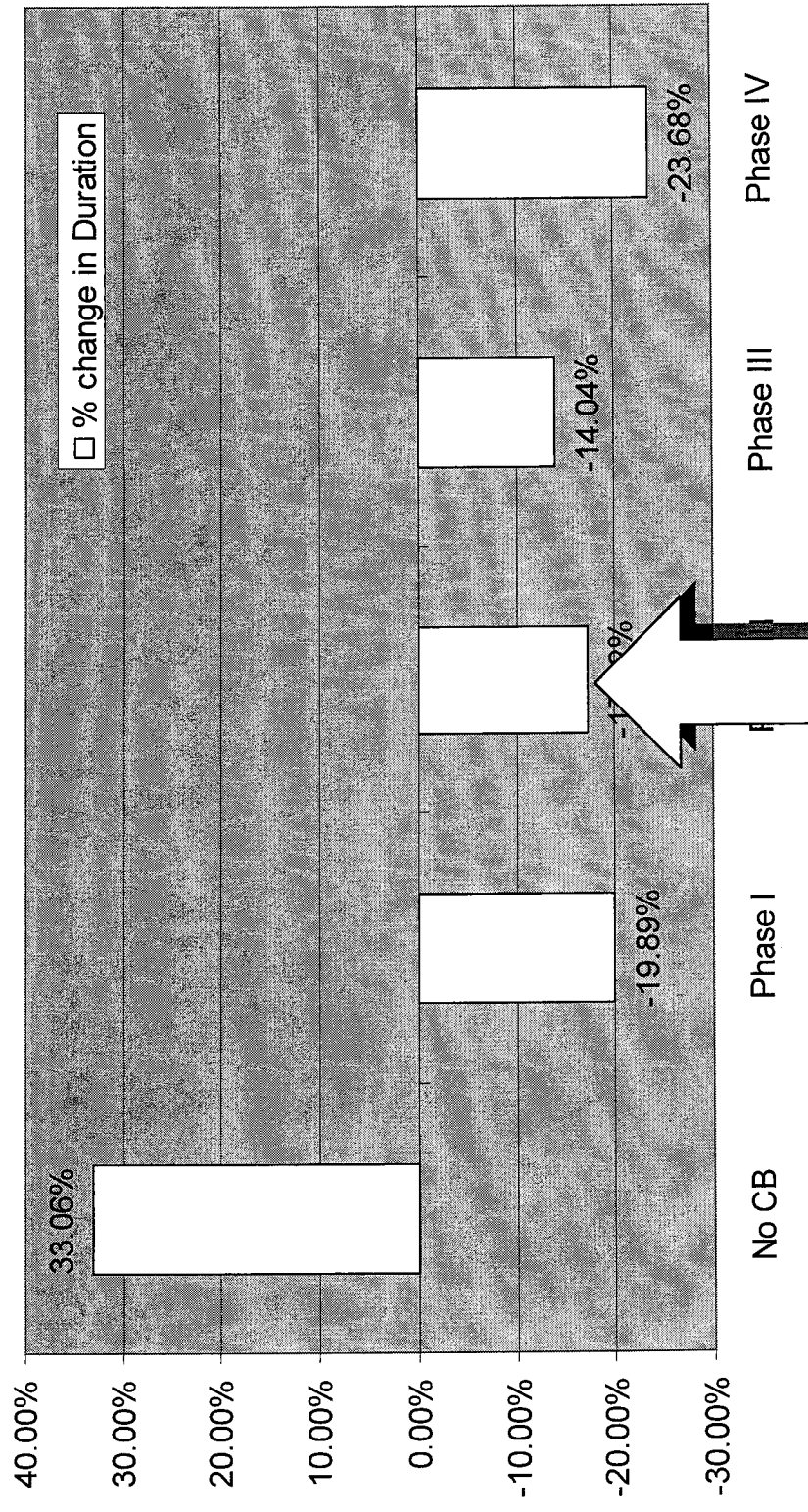
SFWMD Chart - Expressed in Financial Value

% Change in Duration due to WS Back Pumping



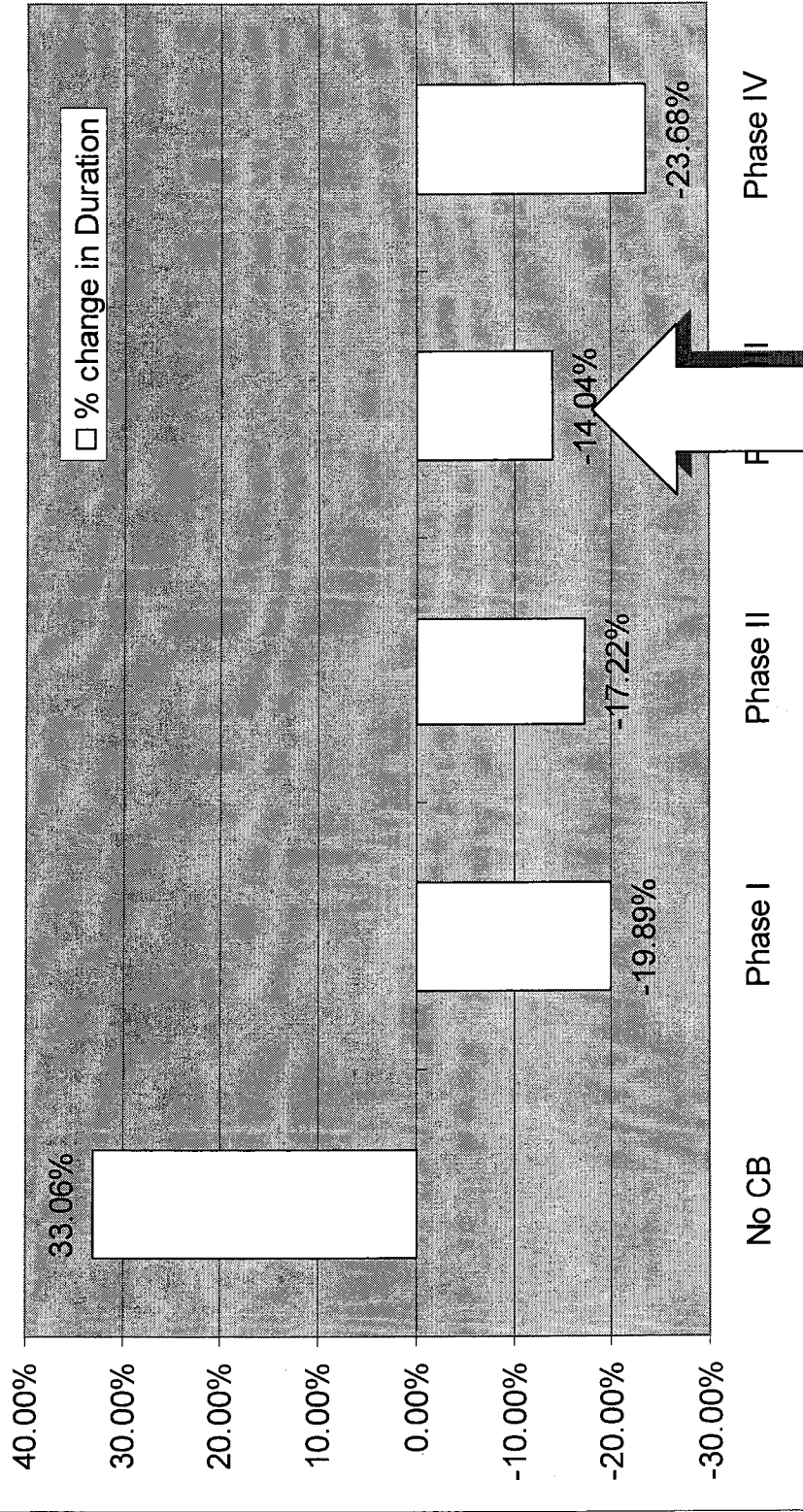
\$21M

% Change in Duration due to WS Back Pumping



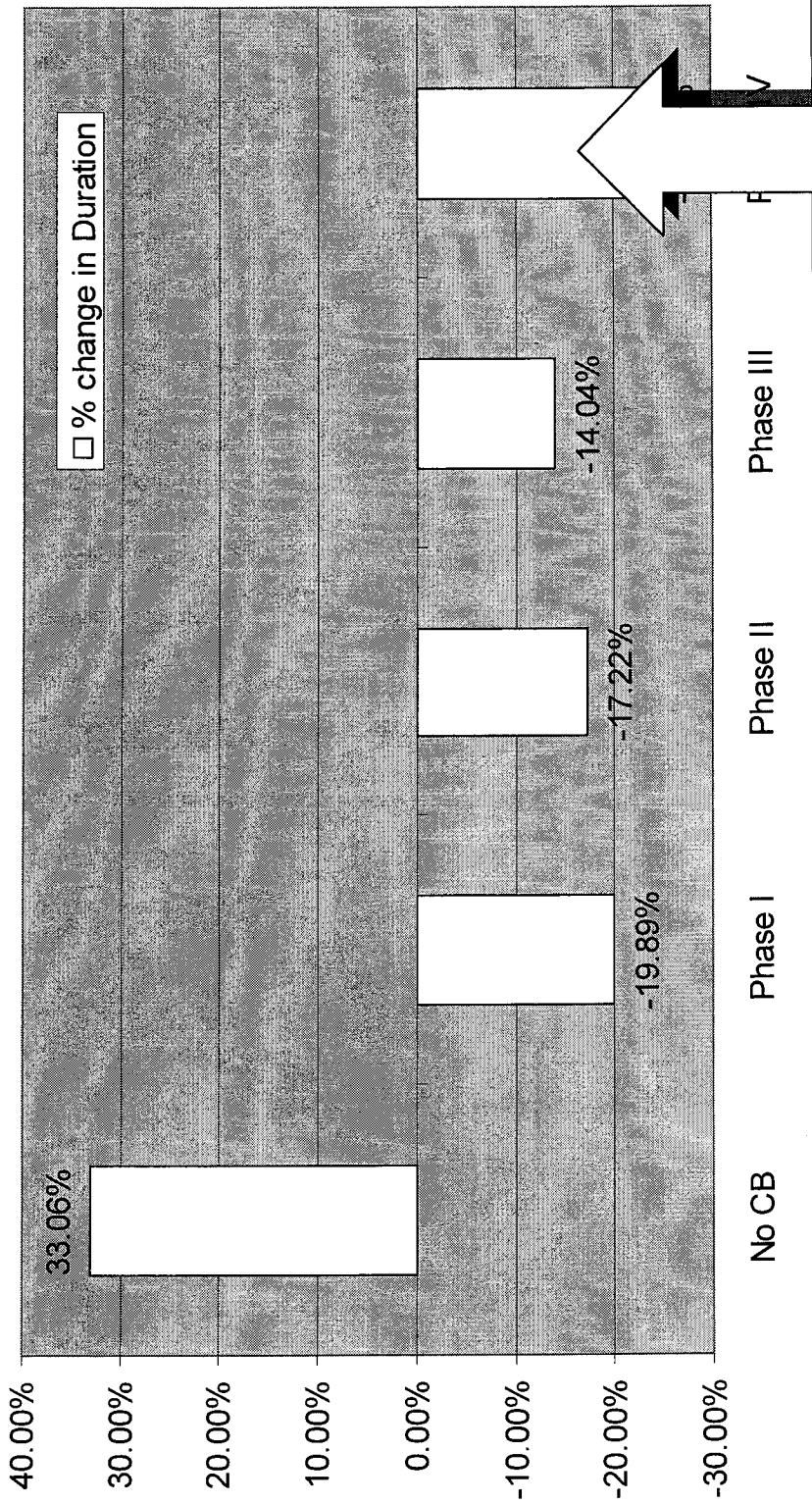
\$21M \$19M

% Change in Duration due to WS Back Pumping



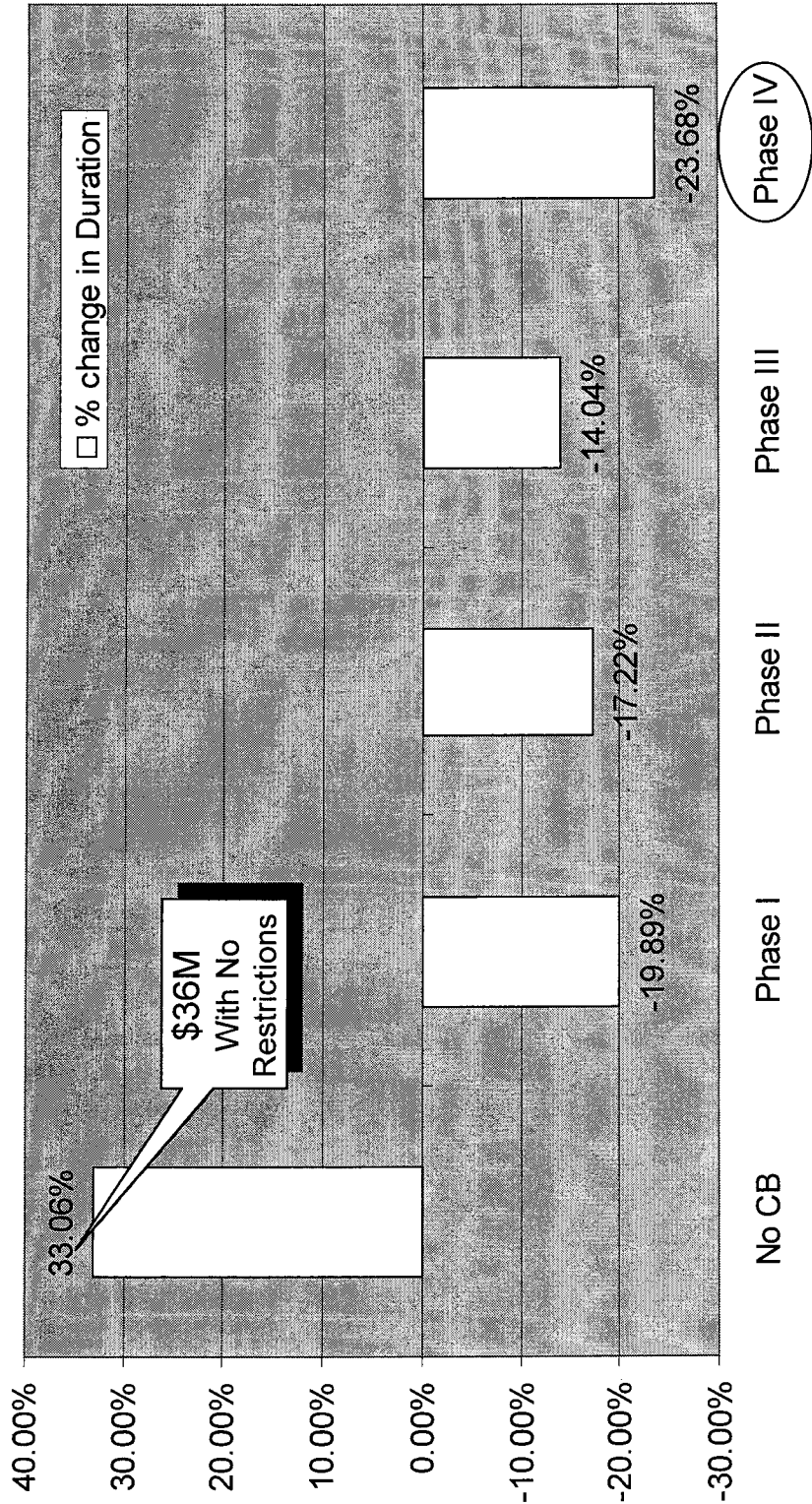
\$21M \$19M \$15M

% Change in Duration due to WS Back Pumping

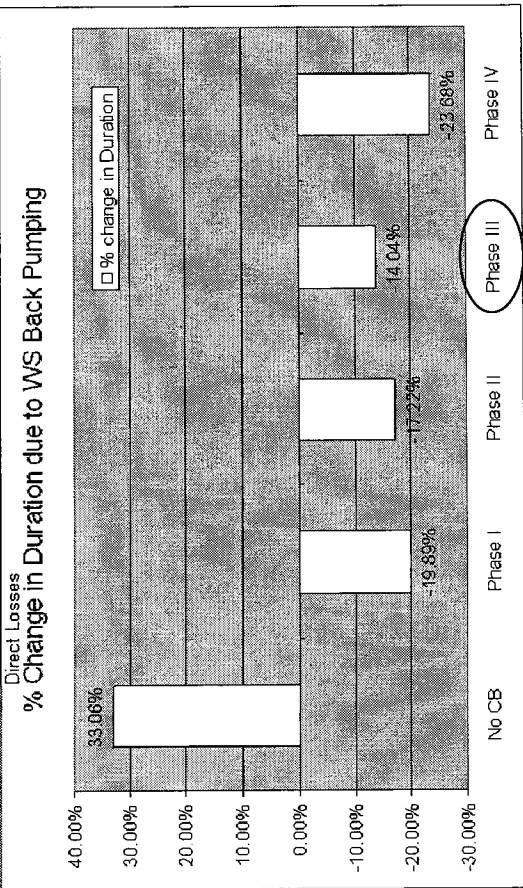
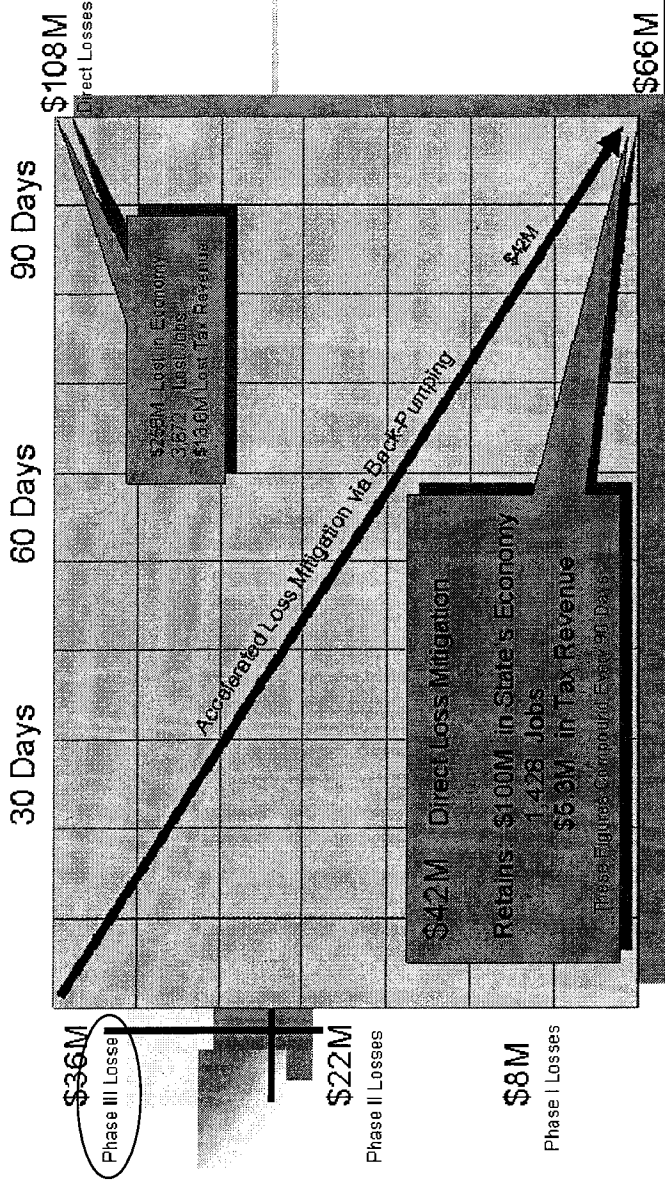


\$21M \$19M \$15M \$26M

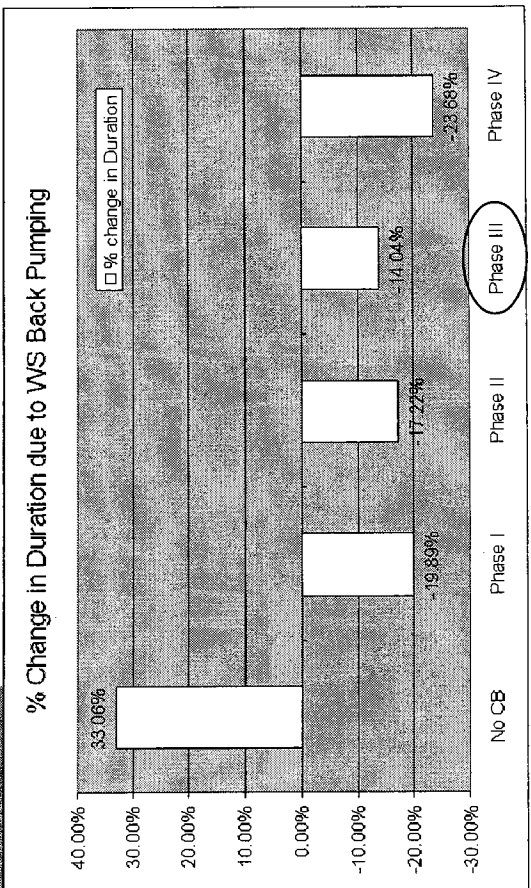
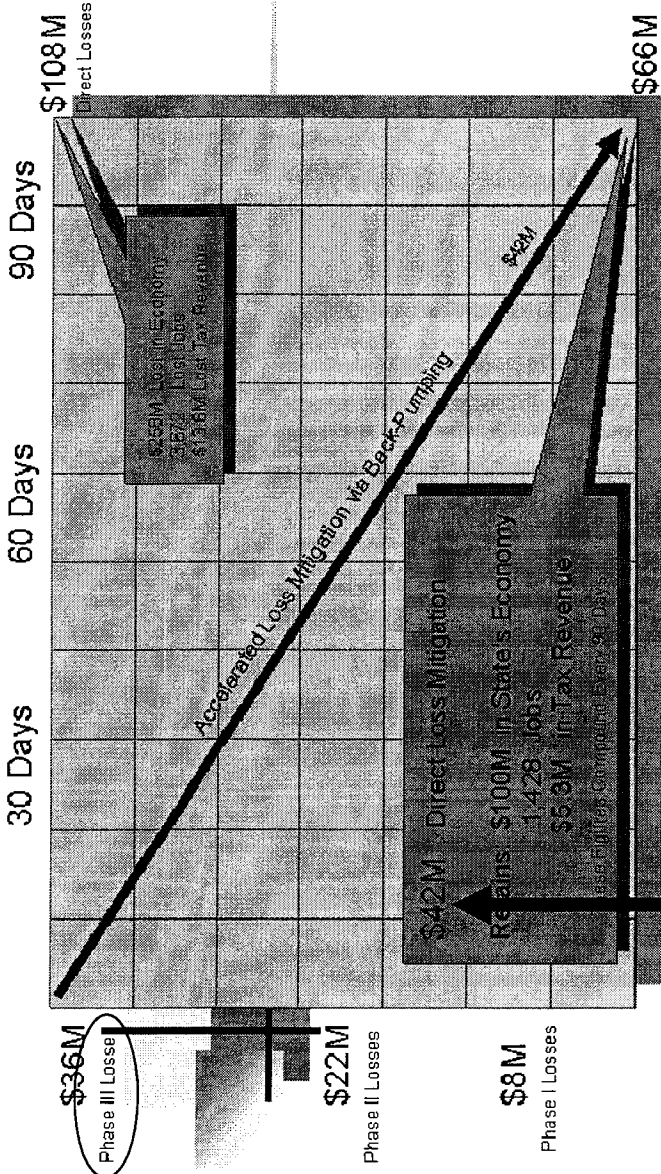
% Change in Duration due to WS Back Pumping



Total \$81M



Total \$55M



Total \$55M

Applying Consistent Formulas

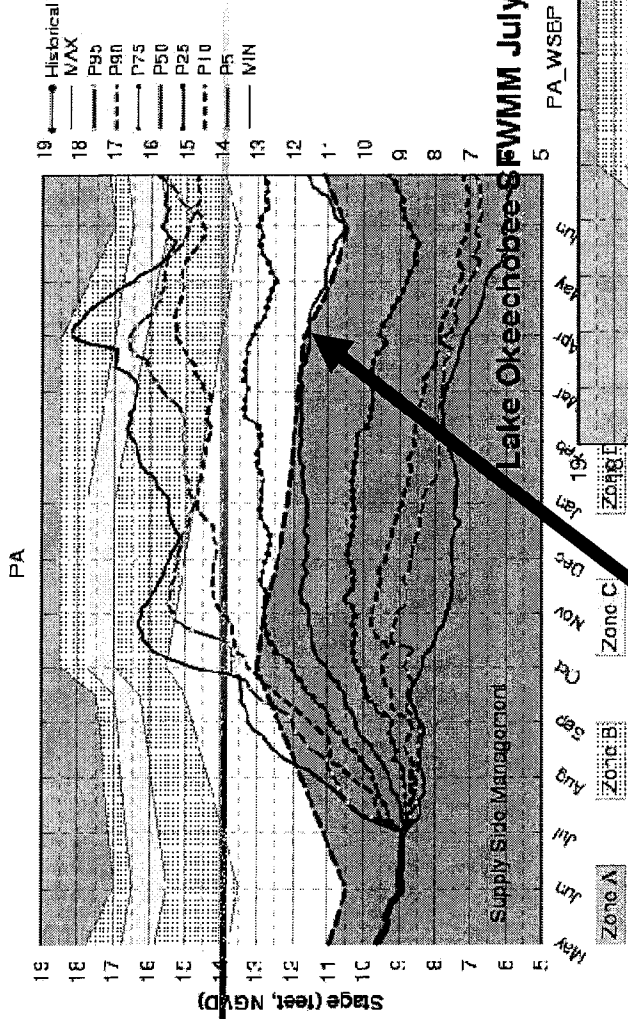
To Both Agency's Independent Data

- FDACS
- SFWMD
- \$42M Direct Losses
- \$55M Direct Losses
- 1,428 Jobs
- 1,861 Jobs
- \$100M Total Impact
- \$131M Total Impact
- \$5.3M Tax Revenue
- \$6.9M Tax Revenue

Losses Potentially Mitigated by Back-Pumping

Every 90 Days

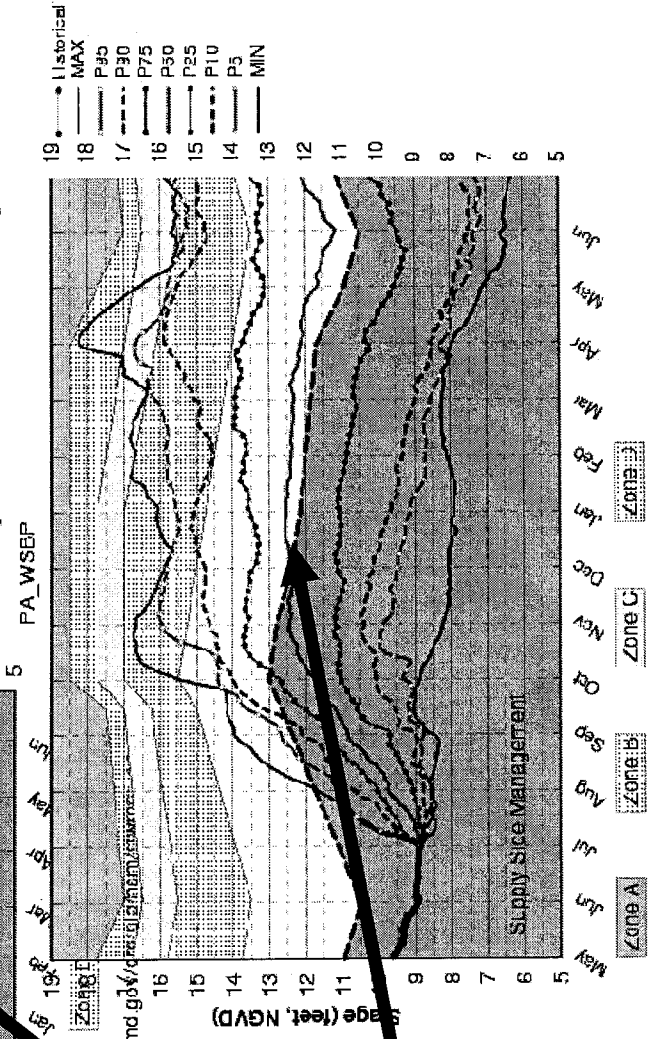
Lake Okeechobee SFWMM July 2007 Position Analysis



Mon Jul 9 08:54:28 2007

(See assumptions @ <http://www.stwrmd.gov/pid/hs/mistwmm>)

Lake Okeechobee SFWMM July 2007 Position Analysis

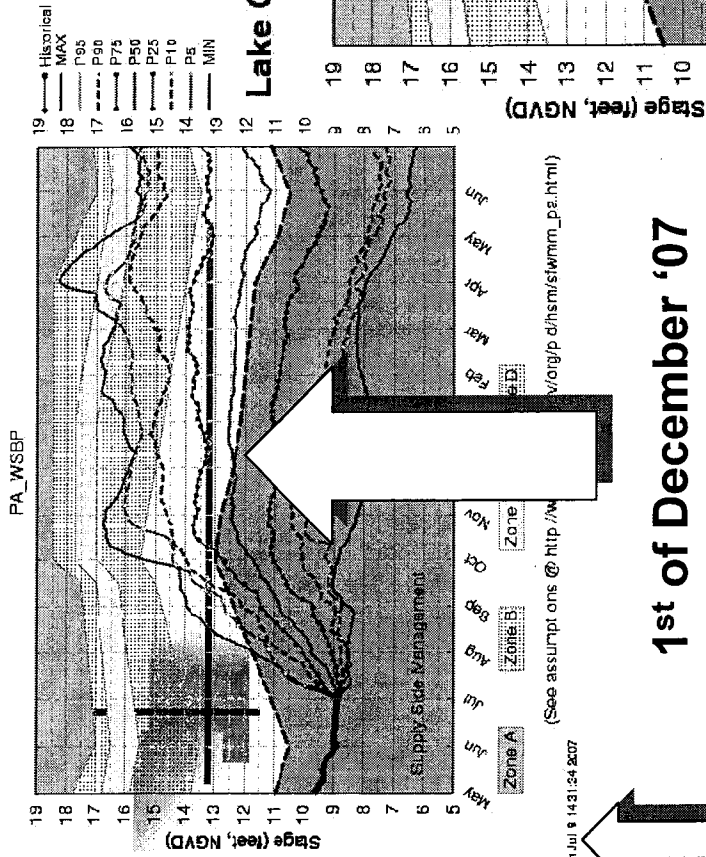


120 Day Gain

(See assumptions @ http://www.stwrmd.gov/pid/hs/mistwmm_pa.html)

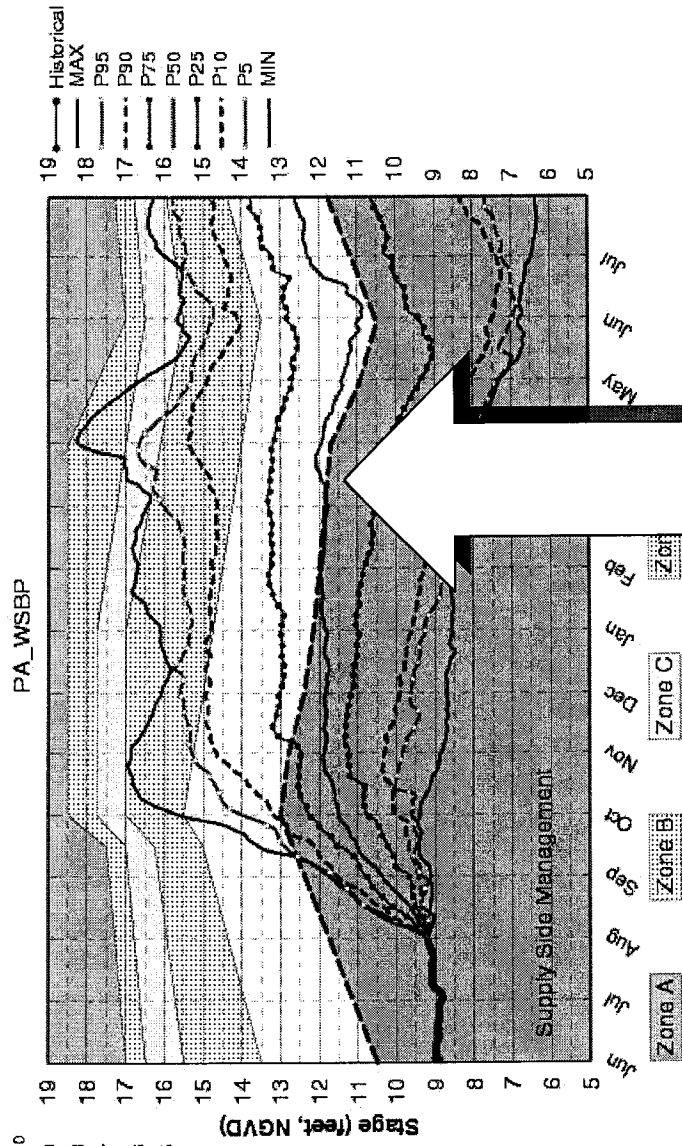
Mon Jul 9 14:31:34 2007

Lake Okeechobee SFWMM July 2007 Position Analysis



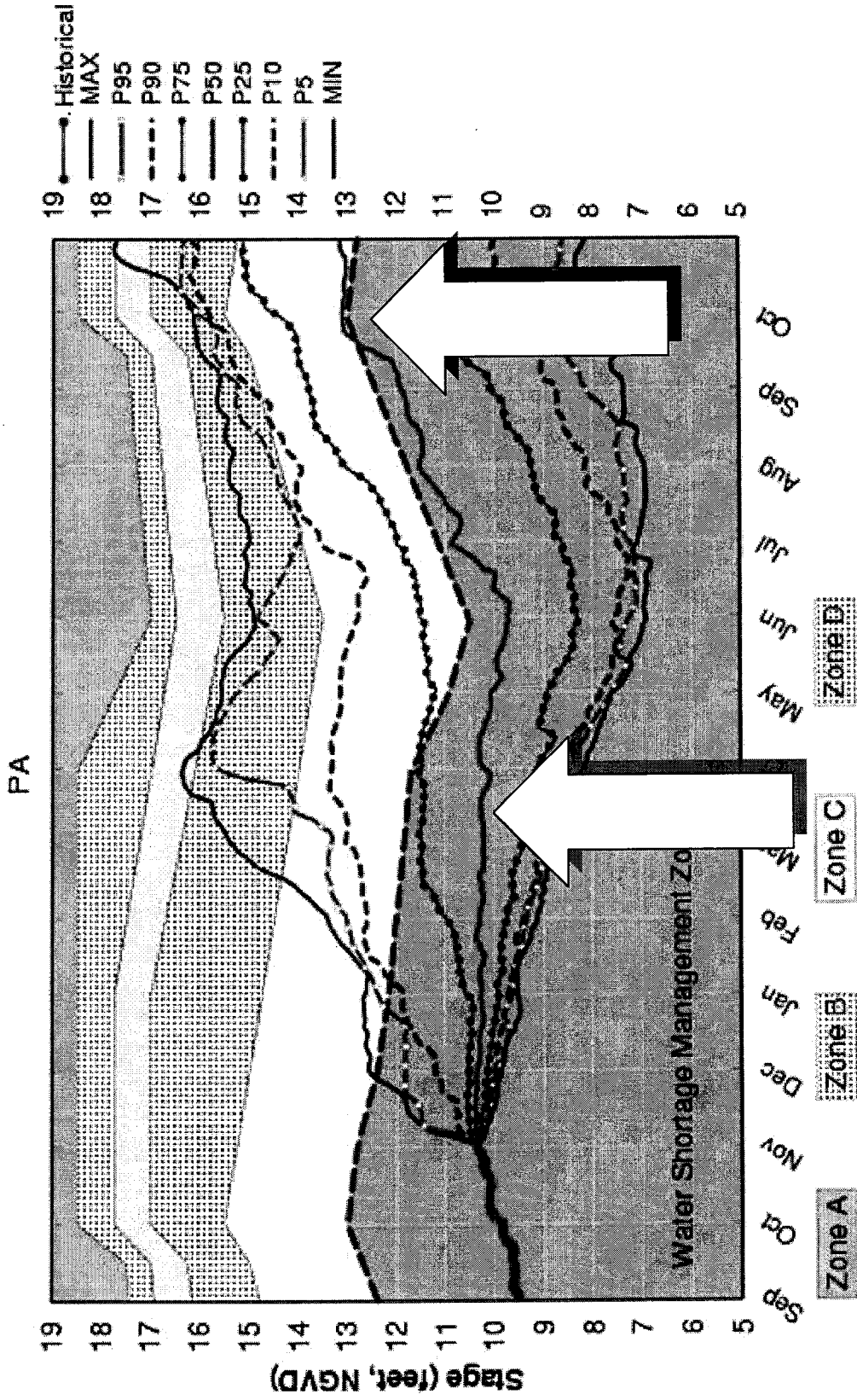
1st of December '07

Lake Okeechobee SFWMM August 2007 Position Analysis

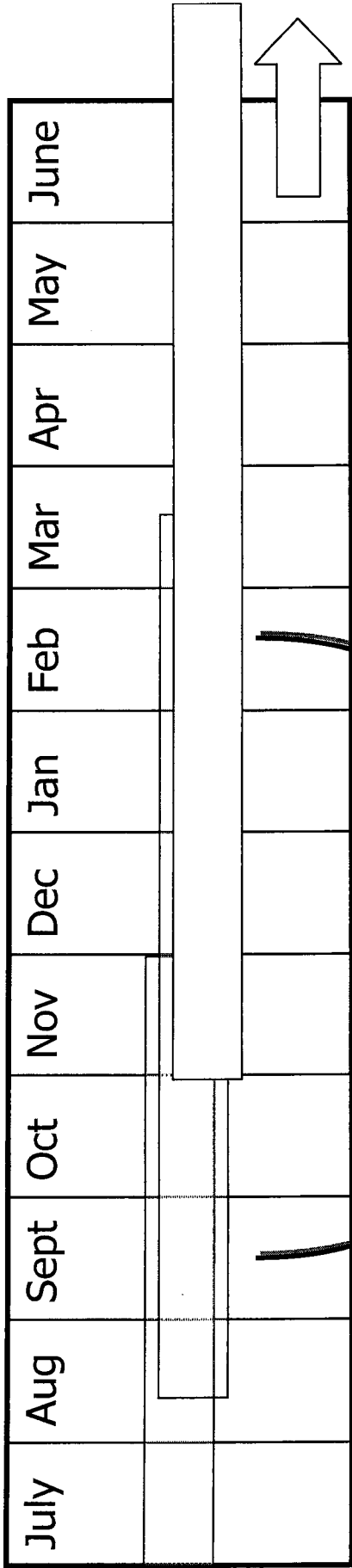
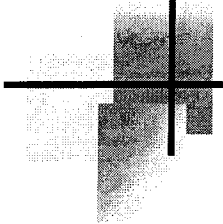


Mid-March '08

Lake Okeechobee SFWMM November 2007 Position Analysis



(See assumptions @ http://www.sfwmd.gov/org/pid/hsm/sfwmn_pa.html)

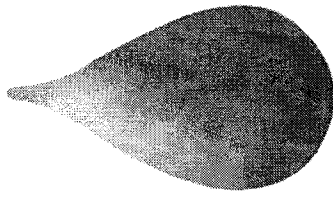


These lines grow wider as we move into Florida's dry season.



Current Situation

- It has been Raining... None This Week (?)
- There Will be Fall & Winter Crops
- Min. Ag Comfort Lake Level is 12 – 14'
- We're Moving into the Dry Season
- Forecasters Say Drier than Normal
- Next Spring's Water Reserves are Not There.



Current



Florida Department of Environmental Protection

Bob Martinez, Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Charlie Crist
Governor
Jeff K. Raab
Lt. Governor
Michael W. Sole
Secretary

TO: Interagency Drought Working Group
FROM: Janet G. Llewellyn, Director
Division of Water Resource Management
CC: Mike Sole, Secretary
Mimi Drew, Deputy Secretary
Kelly Layman, Chief of Staff
Mollie Palmer, Deputy Chief of Staff
DATE: November 1, 2007
RE: Drought Summary for the period

SFWMD

Conditions – The northern and southwestern portions of the District continue to experience “moderate” to “severe” drought conditions

- Modified phase II restrictions are in effect for residential areas of Martin, St. Lucie, eastern Palm Beach, Broward, Miami-Dade, and Monroe Counties. Landscape

- Modified Phase III restrictions are in effect for users in the service areas of Lake Worth, Lantana, Hallandale, Dania Beach Water Utilities and the City of West Palm Beach. Landscape irrigation is limited to one day per week and four hours/day.
- Modified Phase III restrictions are in effect for the Lake Okeechobee Service Area, Indian Prairie Basin, agricultural users, portions of the Lakeshore Perimeter Water Use Basin, and portions of the Lake Istokpoga canal.
- Phase II restrictions are in effect for the Lower West Coast Region.
- An emergency order to terminate withdrawals by 298 Districts and diversion impoundments remains in effect.
- SFWMD continues to operate (under a DEP permit) temporary forward pumps at structures S-351, S-352, and S-354 on Lake Okeechobee.
- The District's emergency order to terminate all withdrawals and releases from Lake Istokpoga remains in effect.

Current



Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Charlie Crist
Governor

Jeff Kotkamp
Lt. Governor

Michael W. Sole
Secretary

TO: Interagency Drought Working Group
FROM: Janet G. Llewellyn, Director
Division of Water Resource Management
CC: Mike Sole, Secretary
Mimi Drew, Deputy Secretary
Kelly Layman, Chief of Staff
Mollie Palmer, Deputy Chief of Staff
DATE: November 1, 2007

SWFWMD

Conditions – The District is experiencing a mix of “abnormally dry” to “moderate” drought conditions.

- October rainfall was above normal.

- The summer rainy season did not provide enough rain to significantly improve ground water and surface water conditions, which are expected to deteriorate throughout the winter and spring months.

- A modified Phase II Water Shortage order (No. SWF 07-02) remains in effect through November 30, which limits outdoor watering to 1 day/week and generally prohibits irrigation between 8 a.m. and 6 p.m.

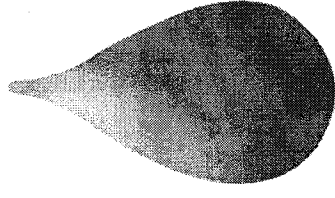
- The District's emergency order to terminate all withdrawals and releases from Lake Istokpoga remains in effect.

"More Protection. Less Process."
[www.state.fl.us](http://state.fl.us)



Current Situation

- Competing Interests
- 40% of Our Cash Receipts in Harms Way
- 1/3rd of Those Depend on Lake 'O' Water
- LOSA Producers will go into the spring growing season knowing they have a greater than 50% chance of not having sufficient water for their crops.



The Kiplinger Letter

FORECASTS FOR MANAGEMENT DECISIONMAKING

1729 H St. NW, Washington, DC 20006-3938 • kiplingerbiz.com • Vol. 84, No. 25

Dear Client:

Get used to living with less water.
Severe droughts are here to stay.
Worst off: The South and West. But other areas also must learn to cope with less rainfall.
The shortage is not yet a crisis,
and with planning, it won't ever become one.
But it still means lots of big changes.

WATER

Conservation will be the new norm.
Higher prices will help make it happen. Consumers, both business and residential, will pay more...in some places, a lot more, with rates that'll escalate as use increases.
Limits on use. Some will be mandatory, as is the case in a few Calif. counties now. But most communities will rely on pleading, cajoling or tax incentives to cut water use.
More ways to save. Some businesses will add roofs that can catch rainwater, get rid of fountains, replace thirsty lawns with less-demanding plants or install faucets

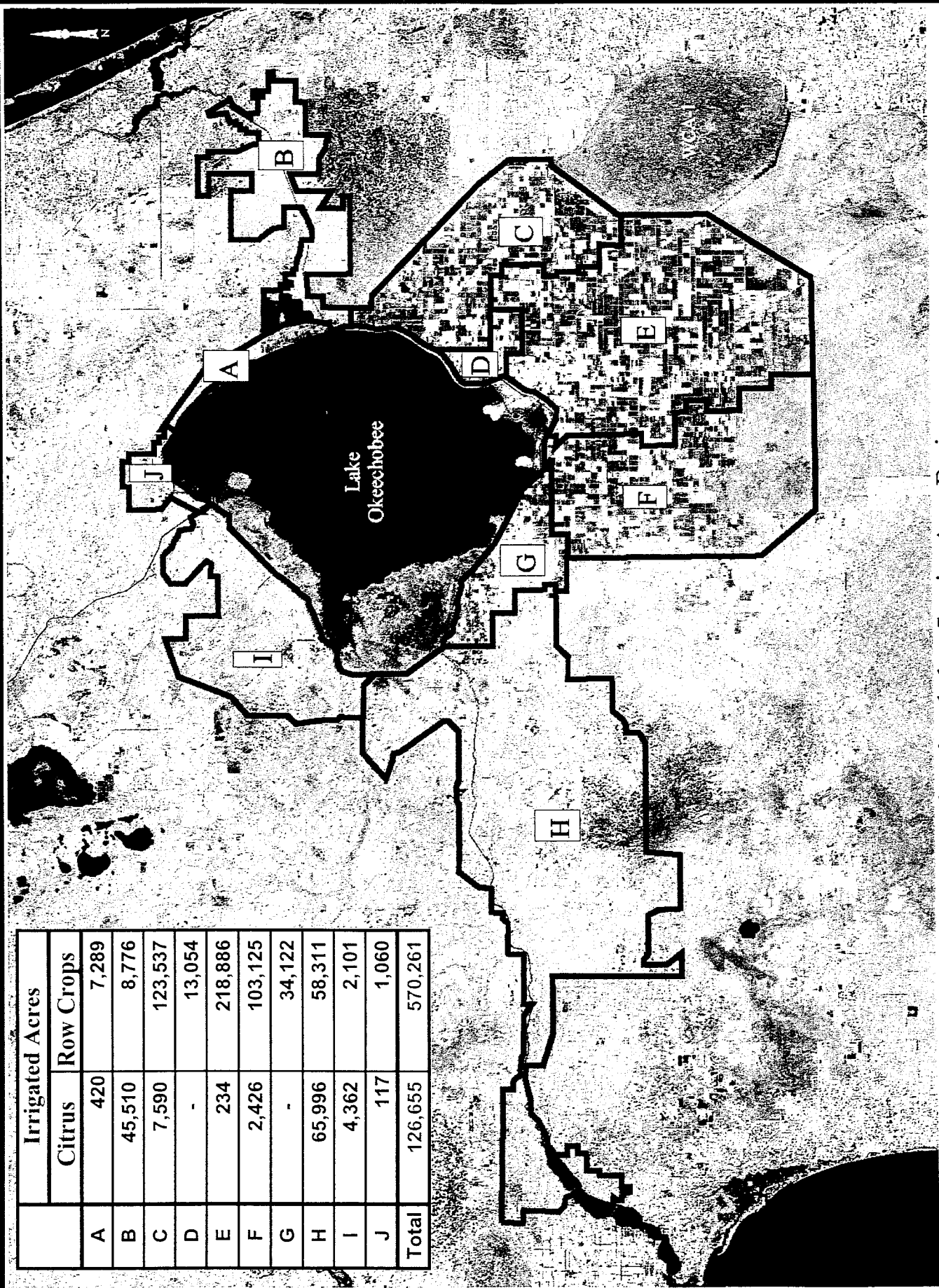
Washington, June 22, 2007

ECONOMIC FORECASTS	
↑	GDP 2% for the year
↔	Interest rates Prime ending '07 at 8.25%
↔	Inflation About 2.5% for the year
↑	Employment 1.5 million more jobs
↓	Trade deficit Narrowing to \$761 billion, 5.6% of GDP
↓	Crude oil Averaging \$60 a barrel
↓	Housing sales NEW FORECAST Down 9.6% in '07, up 17% in '08
↑	Retail sales Slowing to 3% growth
Complete economic outlook at	

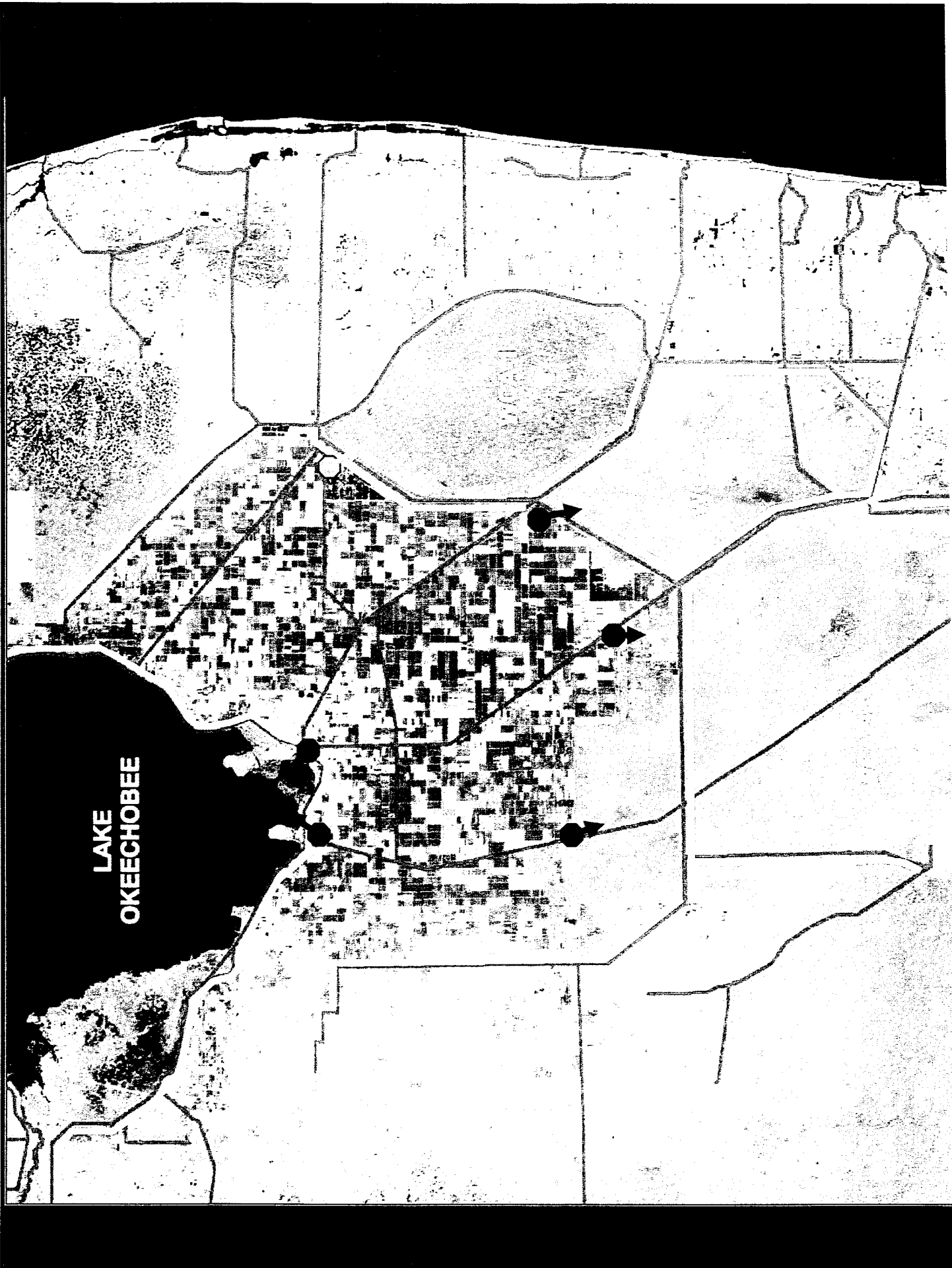
Lake Okeechobee and the Current Water Supply Situation

- **2008 Forecast**
- **Water Available to
Agriculture**

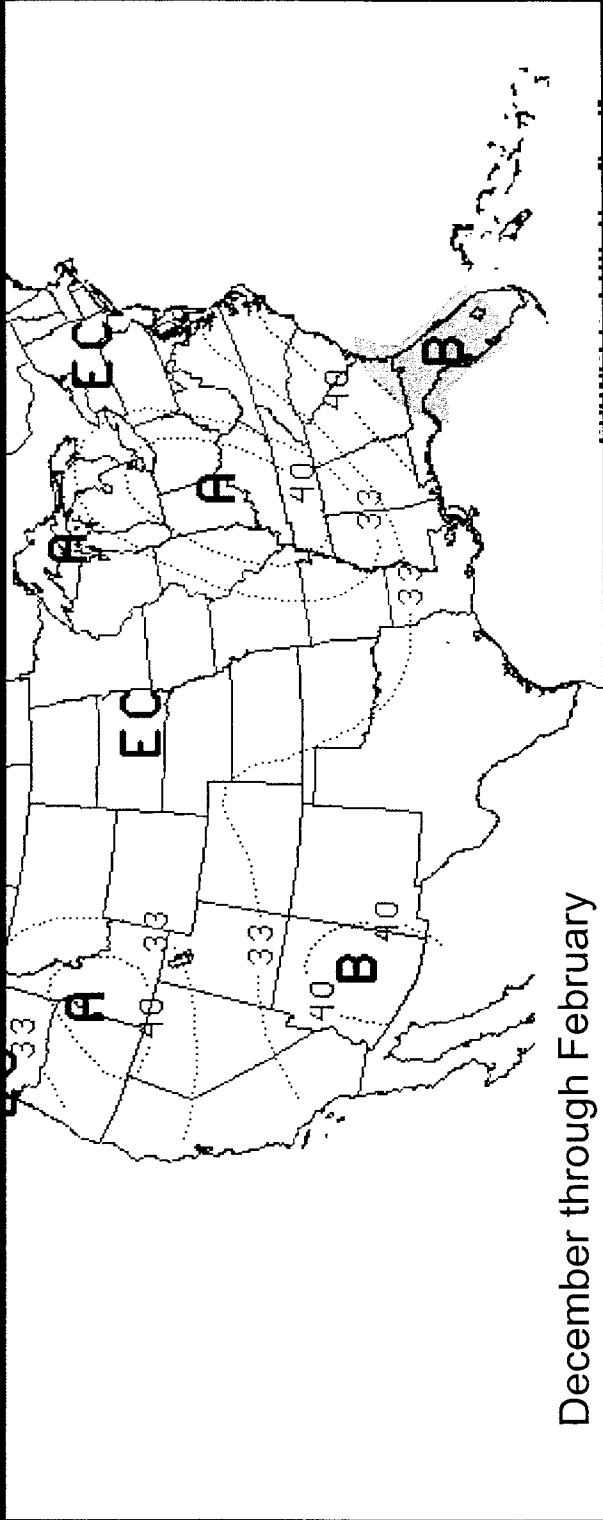
	Irrigated Acres	
	Citrus	Row Crops
A	420	7,289
B	45,510	8,776
C	7,590	123,537
D	-	13,054
E	234	218,886
F	2,426	103,125
G	-	34,122
H	65,996	58,311
I	4,362	2,101
J	117	1,060
Total	126,655	570,261



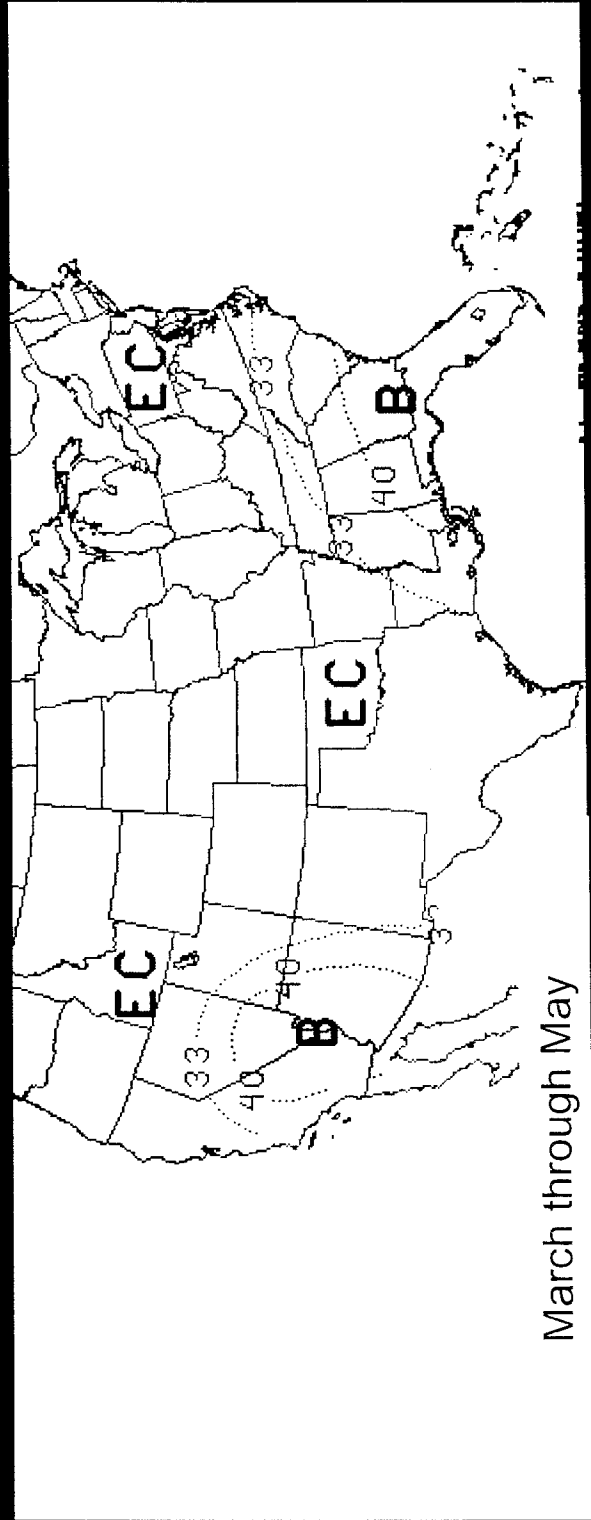
Lake Okechobee Service Area Basins



Forecast from the National Climate Prediction Center

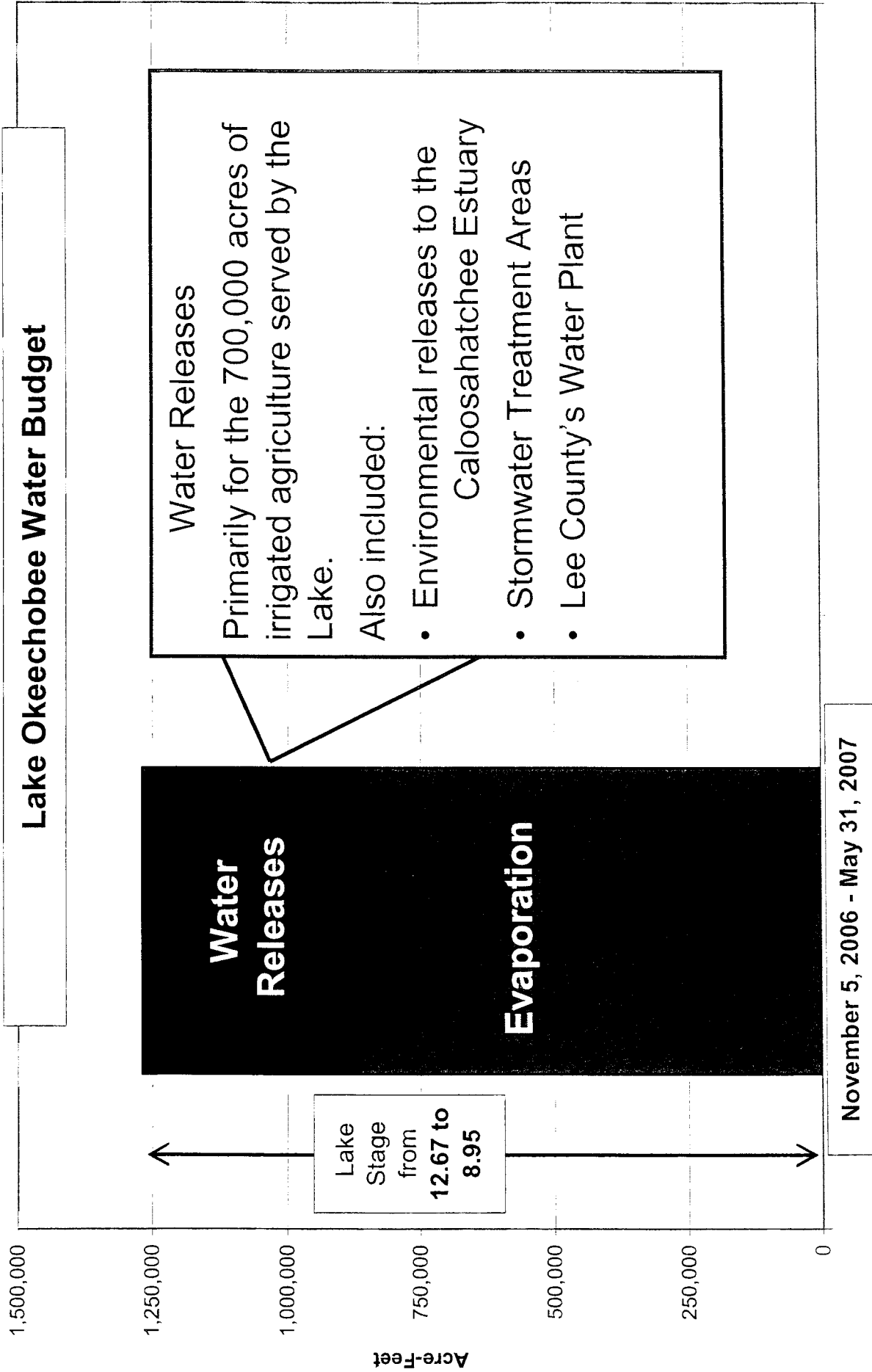


December through February

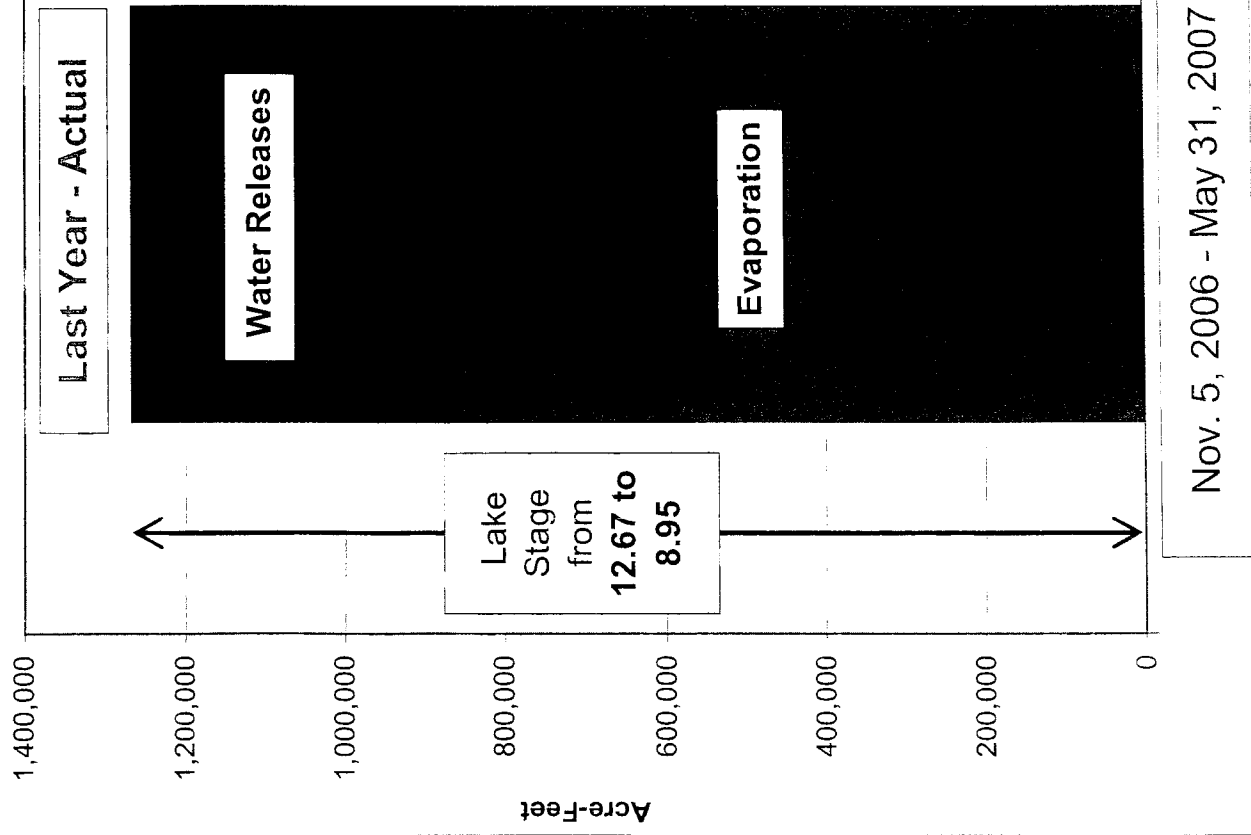


March through May

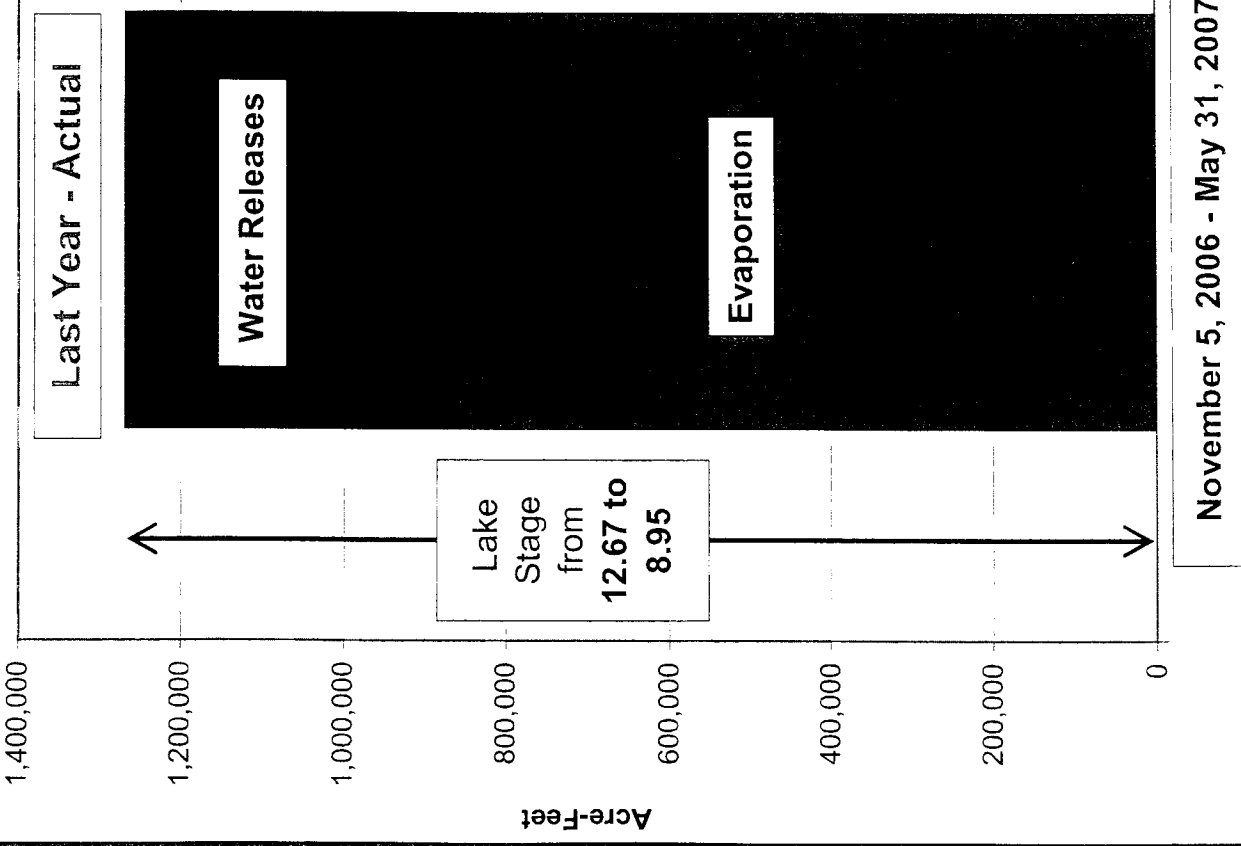
Lake Okeechobee Water Budget



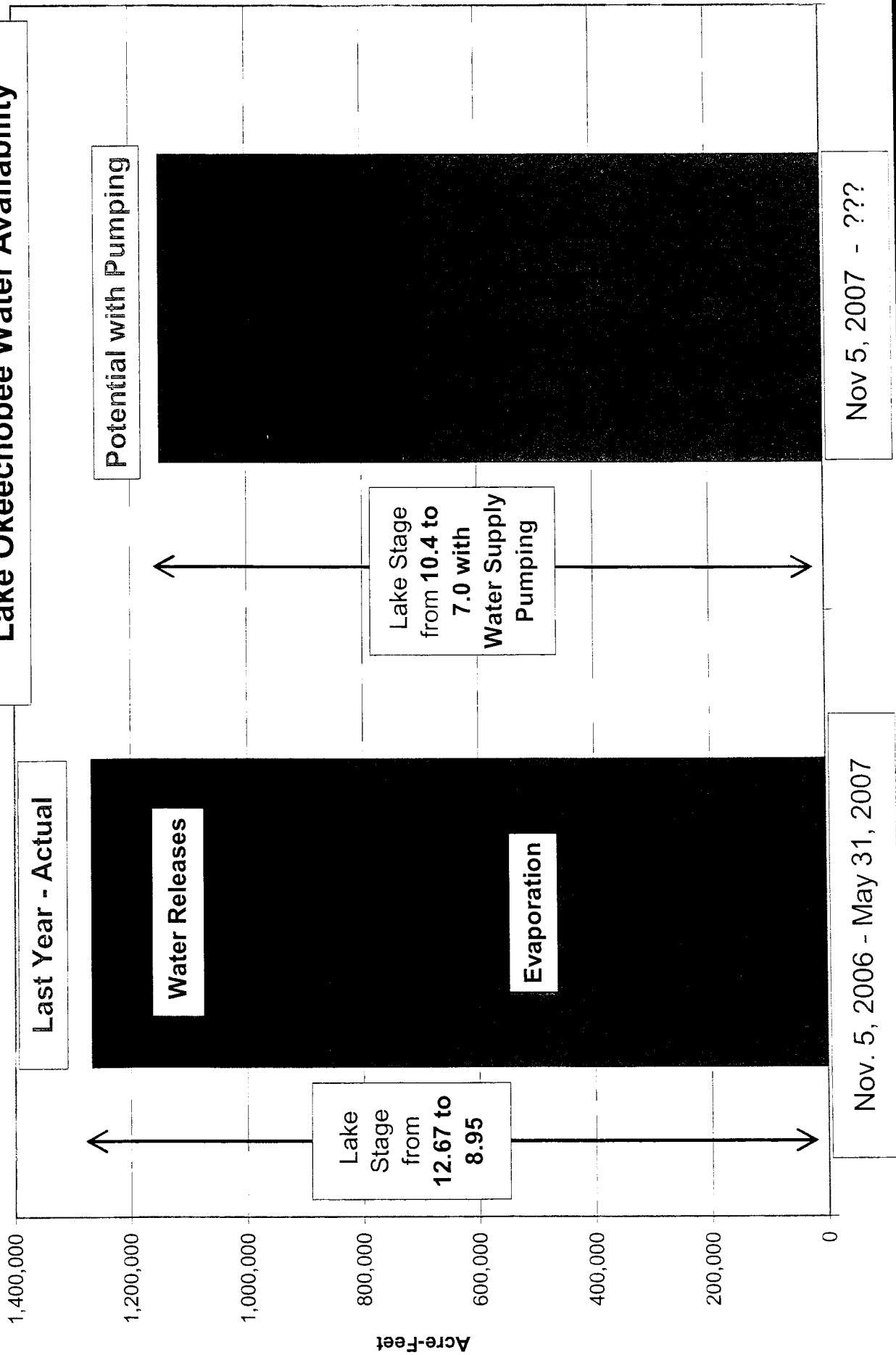
Lake Okechobee Water Availability



Lake Okeechobee Water Availability



Lake Okeechobee Water Availability



Lake Okeechobee Management

- The lowering of the Lake prior to the 2006 wet season contributed to the shortage last year.
- The decision not to add water to the Lake this wet season has hurt prospects for 2008.
- The only recourse available now is to take the Lake level even lower.