

# Lake Okeechobee Water Management Considerations



## Public Health & Safety

## Lake Ecology

## Waterway Navigation

## Estuaries – Caloosahatchee & St. Lucie

## Greater Everglades

## Water Supply

Herbert Hoover Dike  
Structural Stability

Flora/  
Fauna  
Threatened/  
Endangered  
Species

Commercial/  
Recreational  
Traffic  
Regional  
Economy

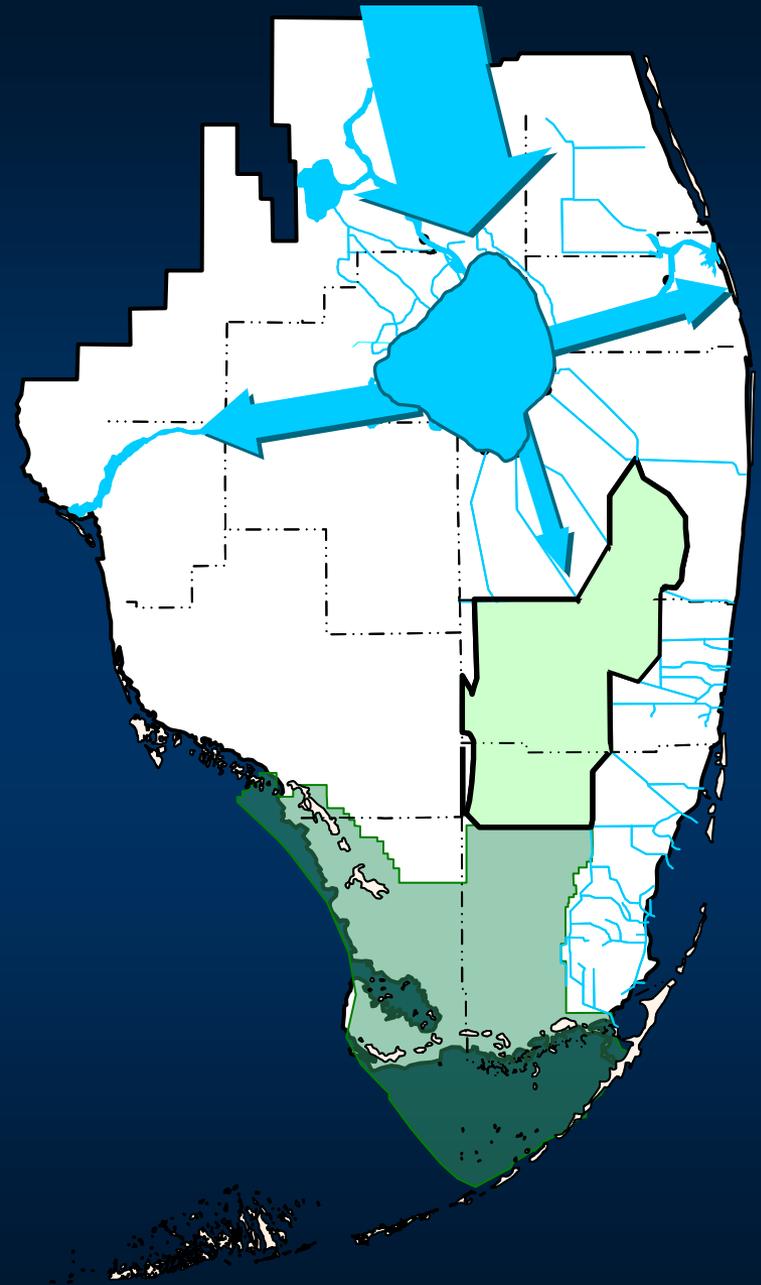
Flora/Fauna  
Threatened/Endangered  
Species  
Regional Economy

Flora/  
Fauna  
Threatened/  
Endangered  
Species

Human &  
Agricultural  
Consumption  
Needs of  
Environment

# Lake Management Challenges

One foot of rainfall in an already saturated Okeechobee / Kissimmee basin equals about a three- to *four-foot rise* in Lake Okeechobee. It would take about 75 days (max flow) to 230 days (preferred estuary flow) to return the lake to its original elevation.



# Corps Goals & Objectives

- Ensure public health and safety
- Manage Lake Okeechobee at target range of 12.5 to 15.5 feet
- Reduce high releases to the estuaries
- Continue to meet Congressionally authorized project purposes

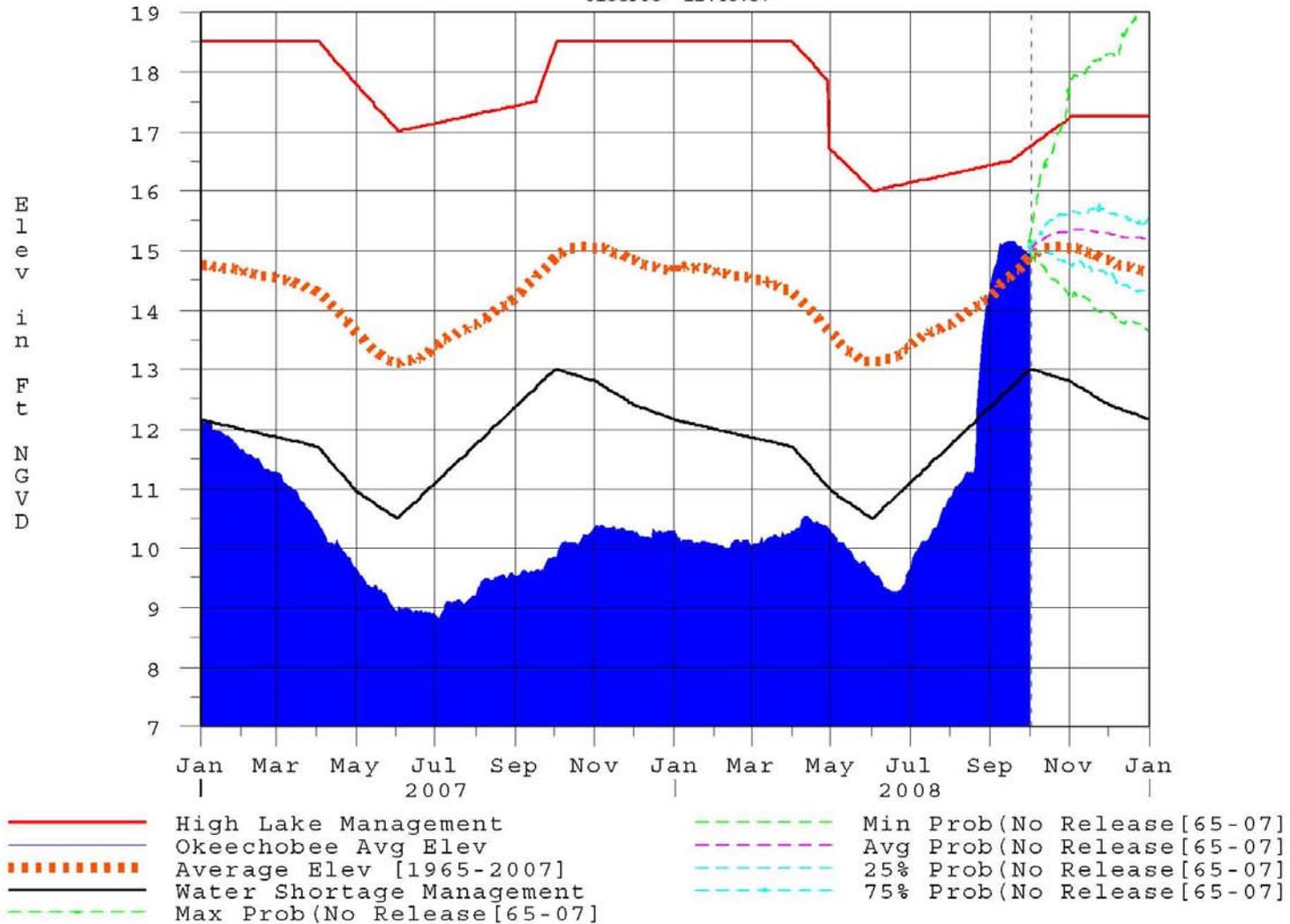
# 2008 Lake Okeechobee Regulation Schedule

- Allows operational flexibility for public health and safety and authorized project purposes
- Provides for use of long-term, low-volume releases to the estuaries
- Includes SFWMD Water Shortage Management Plan
- Provides releases to be used by SFWMD to store on SFWMD lands

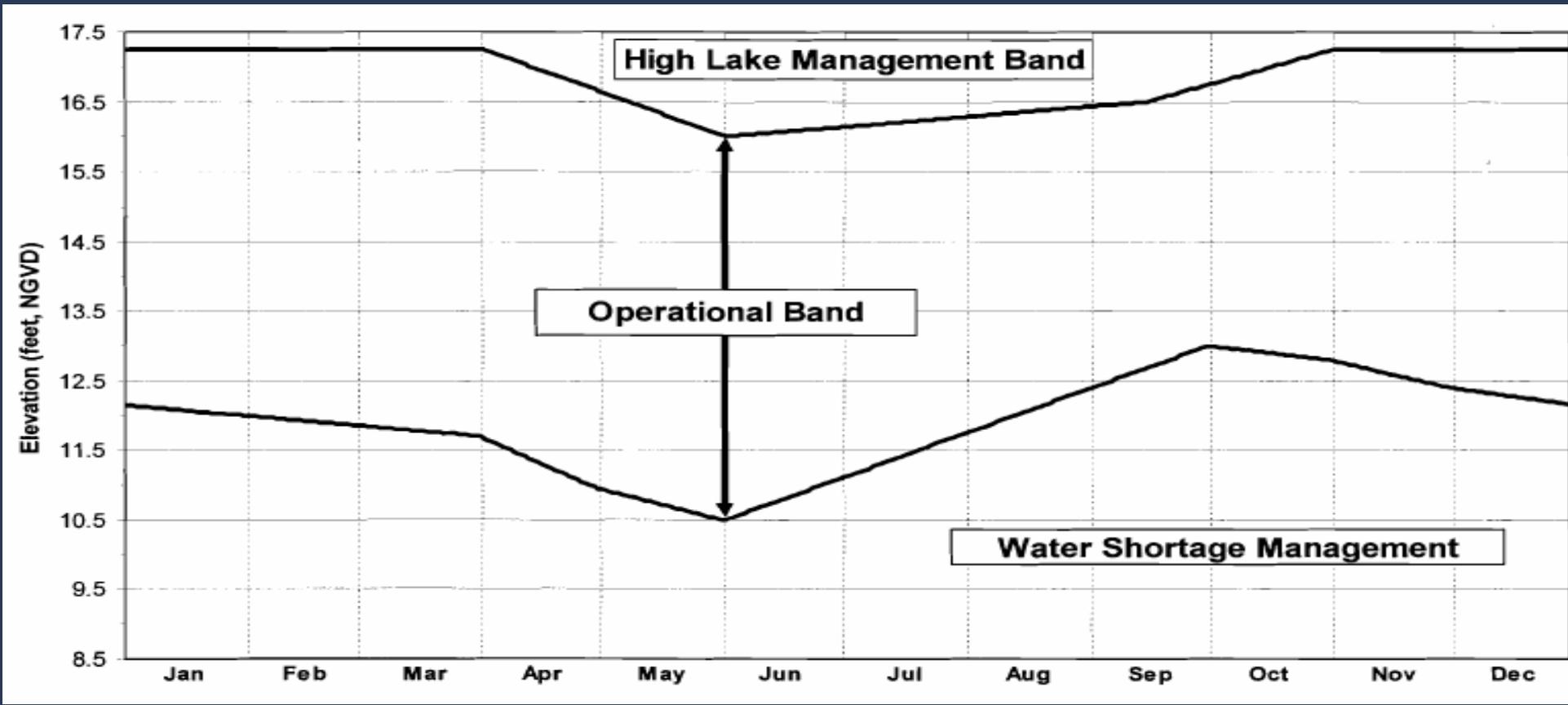
**FUTURE** - CERP System Operating Manual to study Lake Okeechobee Regulation Schedule and future CERP Projects' water storage

# Lake Okeechobee

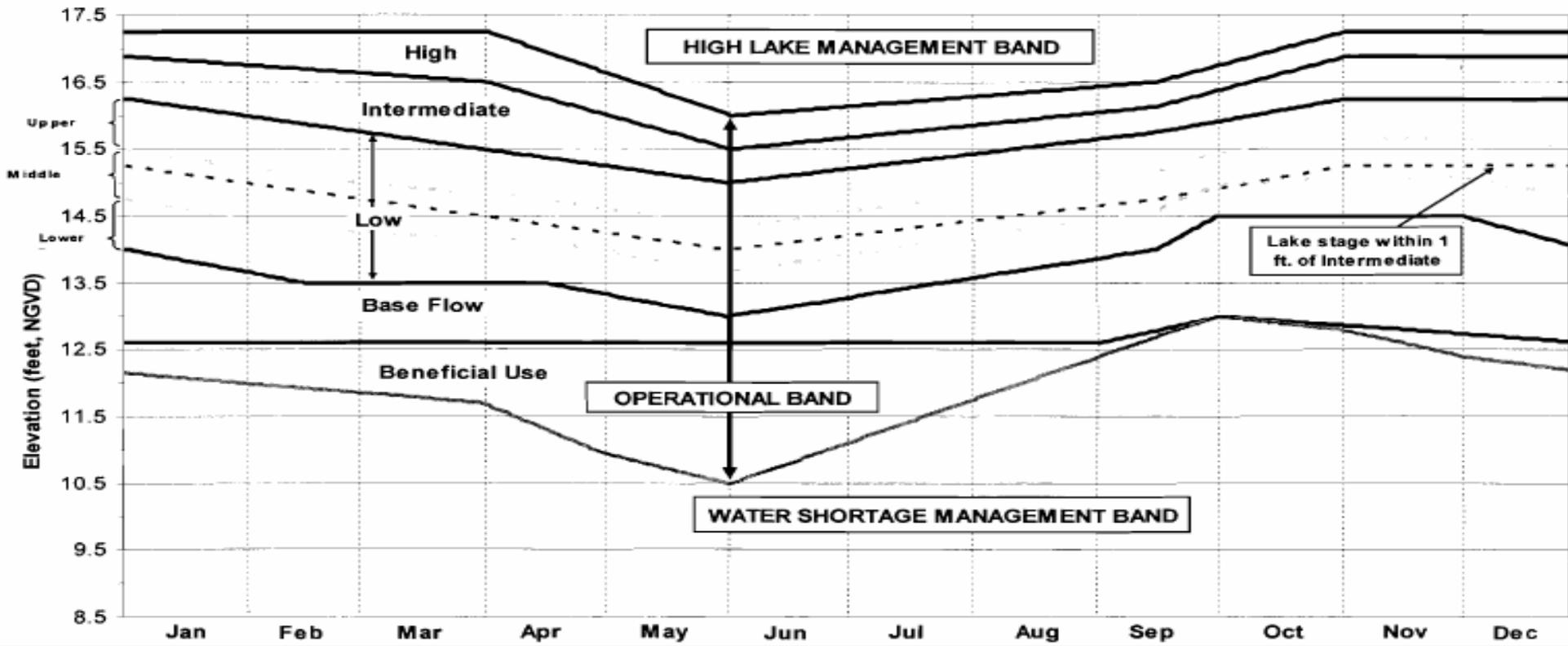
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# 2008 Lake Okeechobee Regulation Schedule - Part A

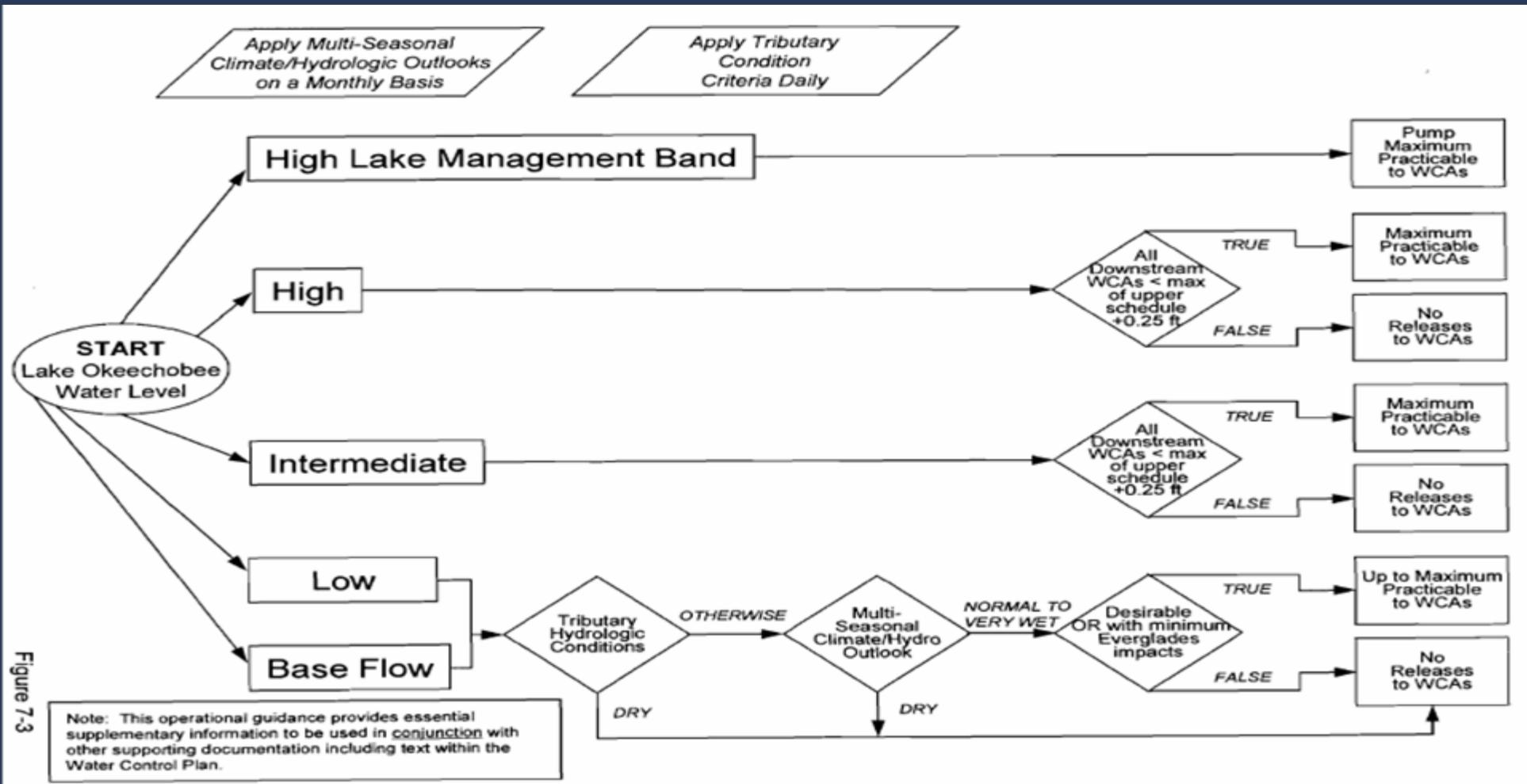


# 2008 Lake Okeechobee Regulation Schedule - Part B



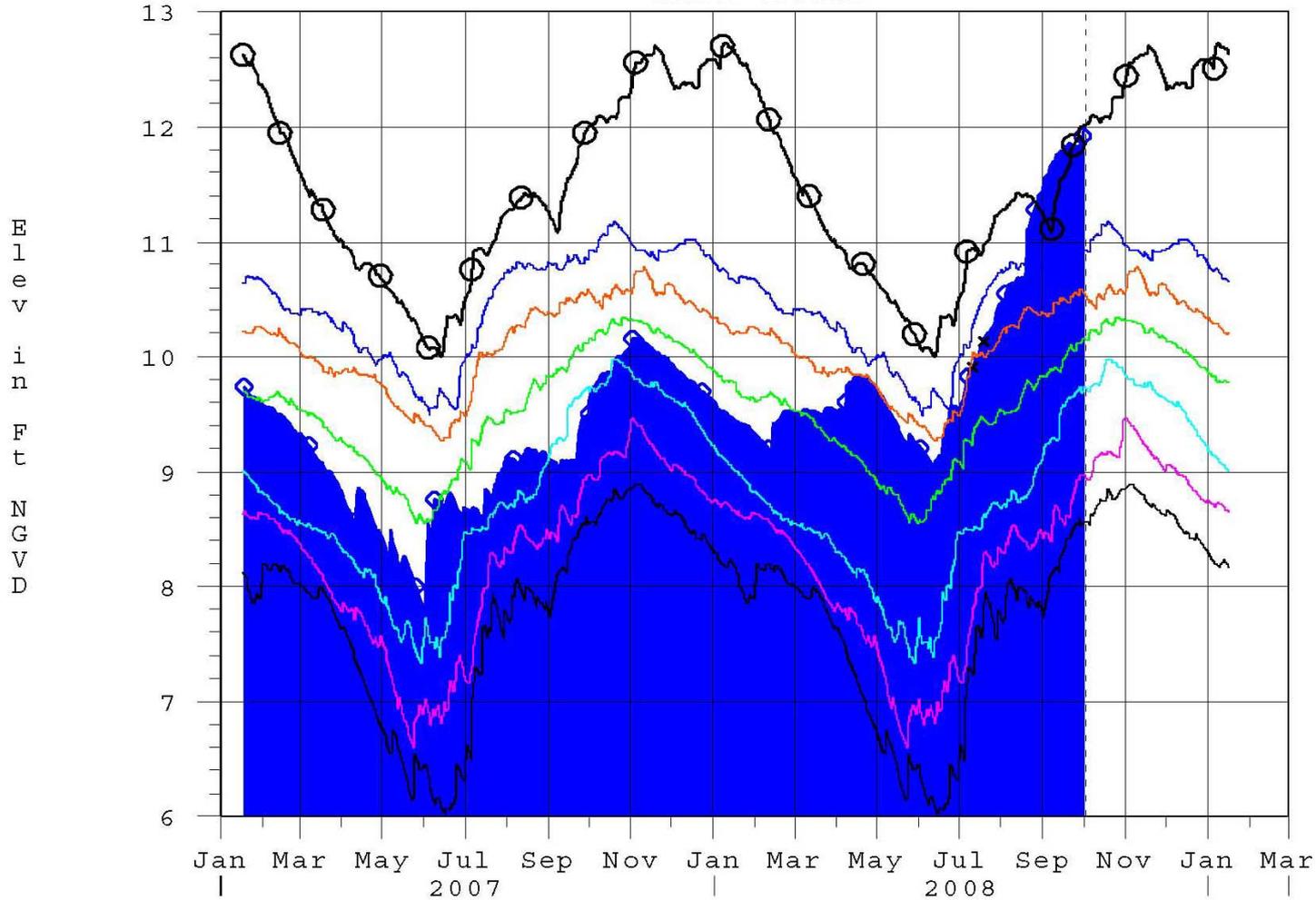
# 2008 Lake Okeechobee Regulation Schedule - Part C

## Allowable Releases to Water Conservation Areas



# Water Cons. Area #3A Compared to 1963-2000 Exceedance Statistics

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—◆— Avg Elev (Site 63,64,65)  
— 90% Exceed Value  
— 75% Exceed Value  
— 50% Exceed Value

— 25% Exceed Value  
— 10% Exceed Value  
— Min Exceed Value  
—○— Max Exceed Value

# 2008 Lake Okeechobee Regulation Schedule - Part D

## Allowable Releases to Tide (Estuaries)

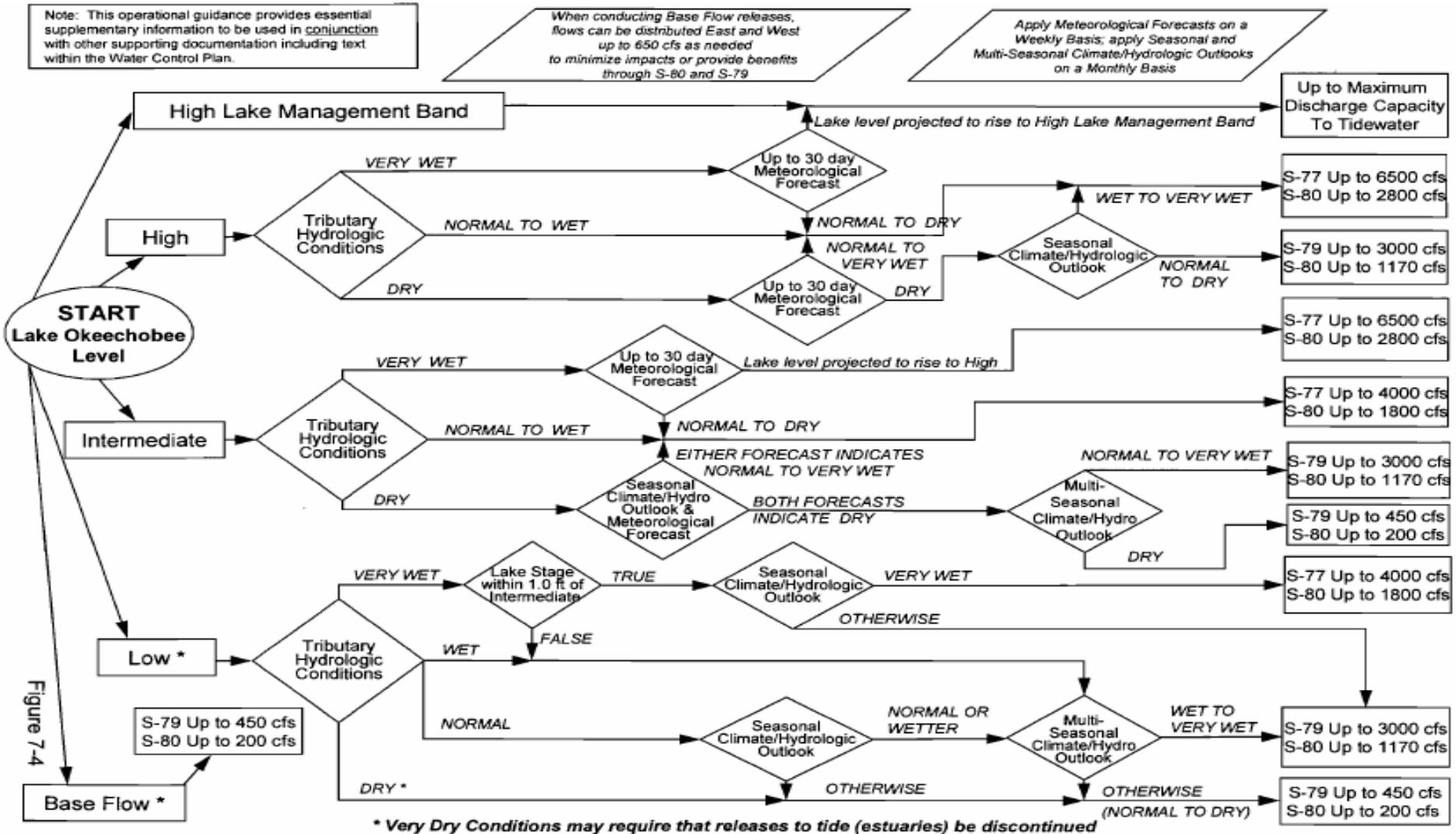
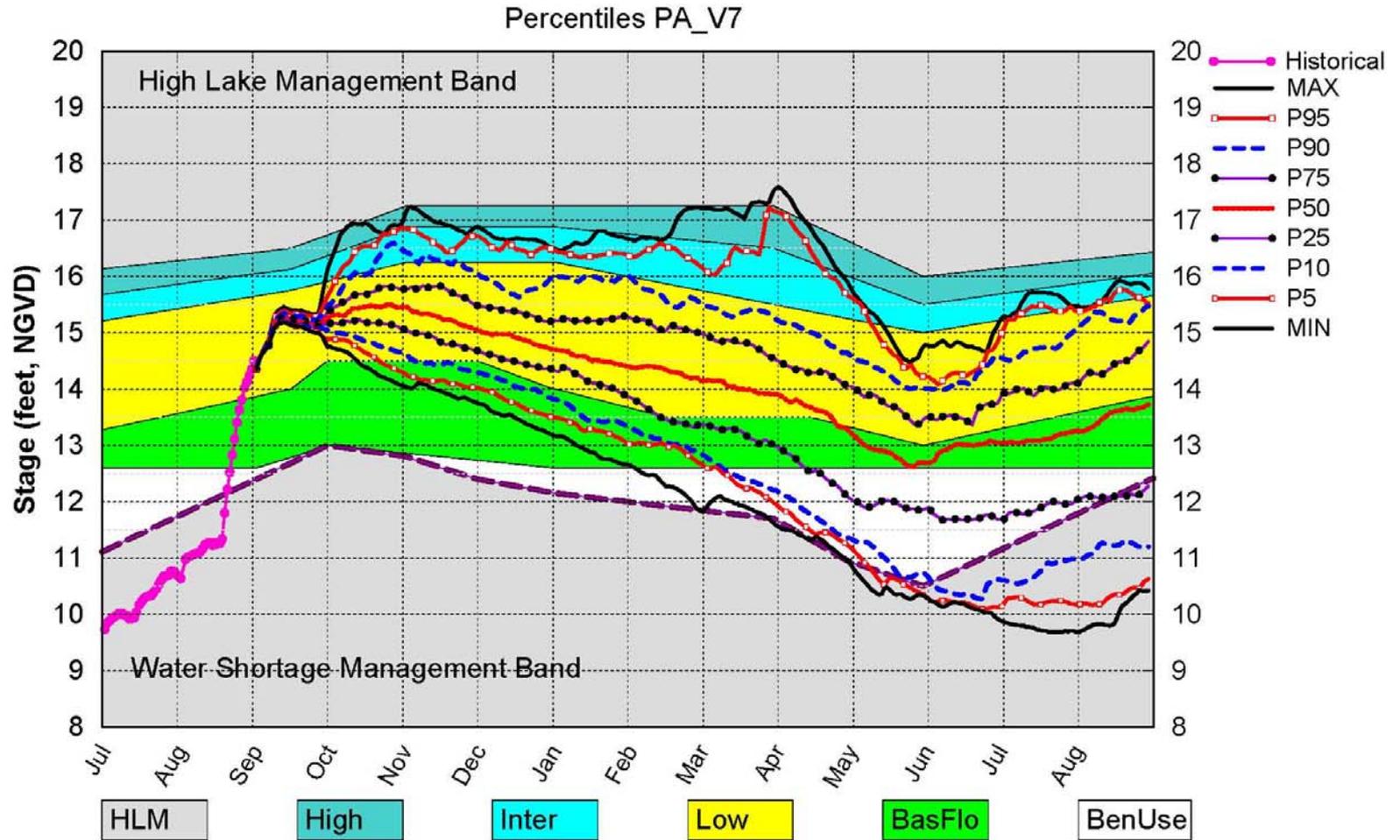


Figure 7-4

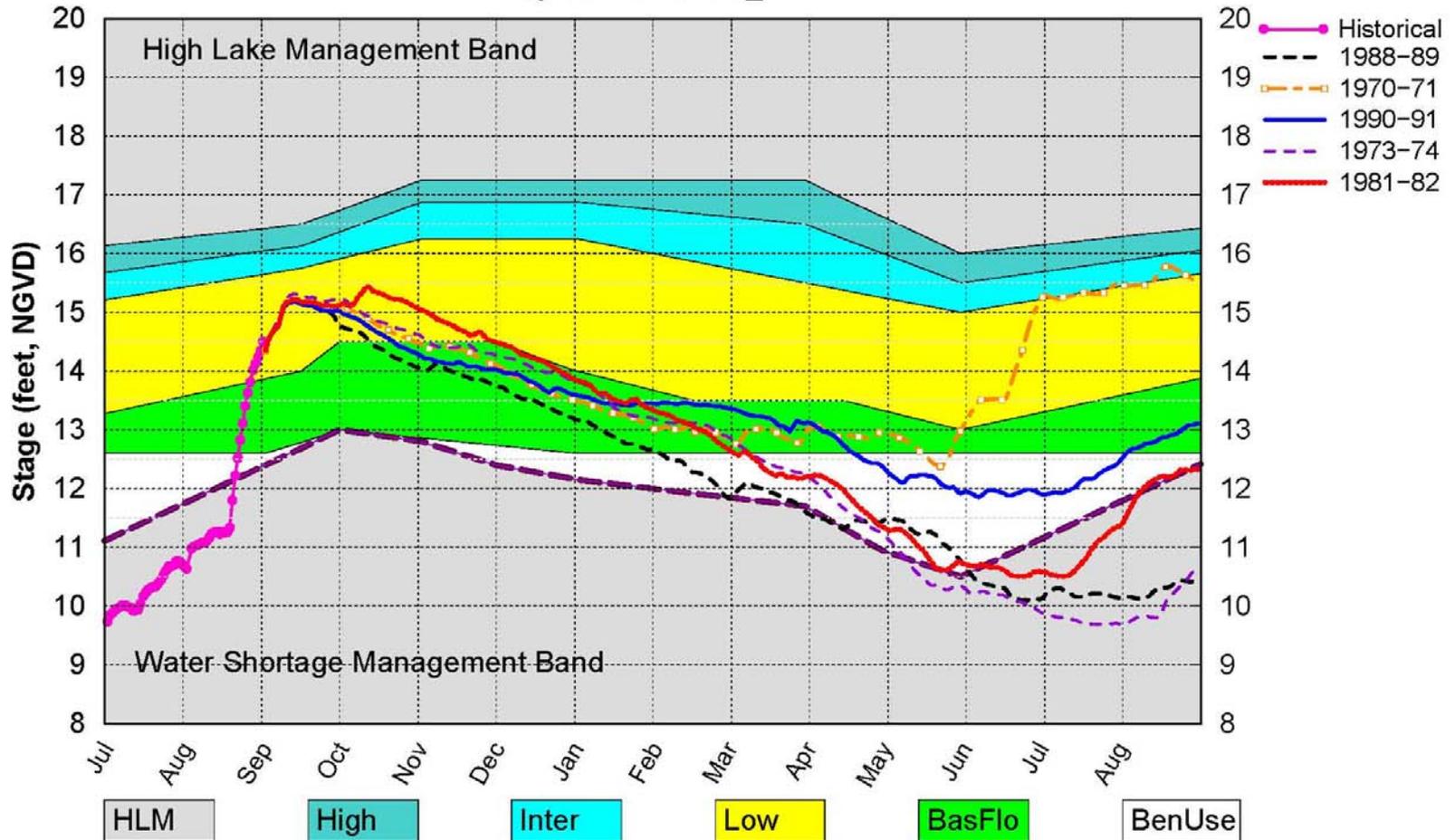
# Lake Okeechobee SFWMM September 2008 Position Analysis



(See assumptions on the Position Analysis Results website)

# Lake Okeechobee SFWMM September 2008 Position Analysis

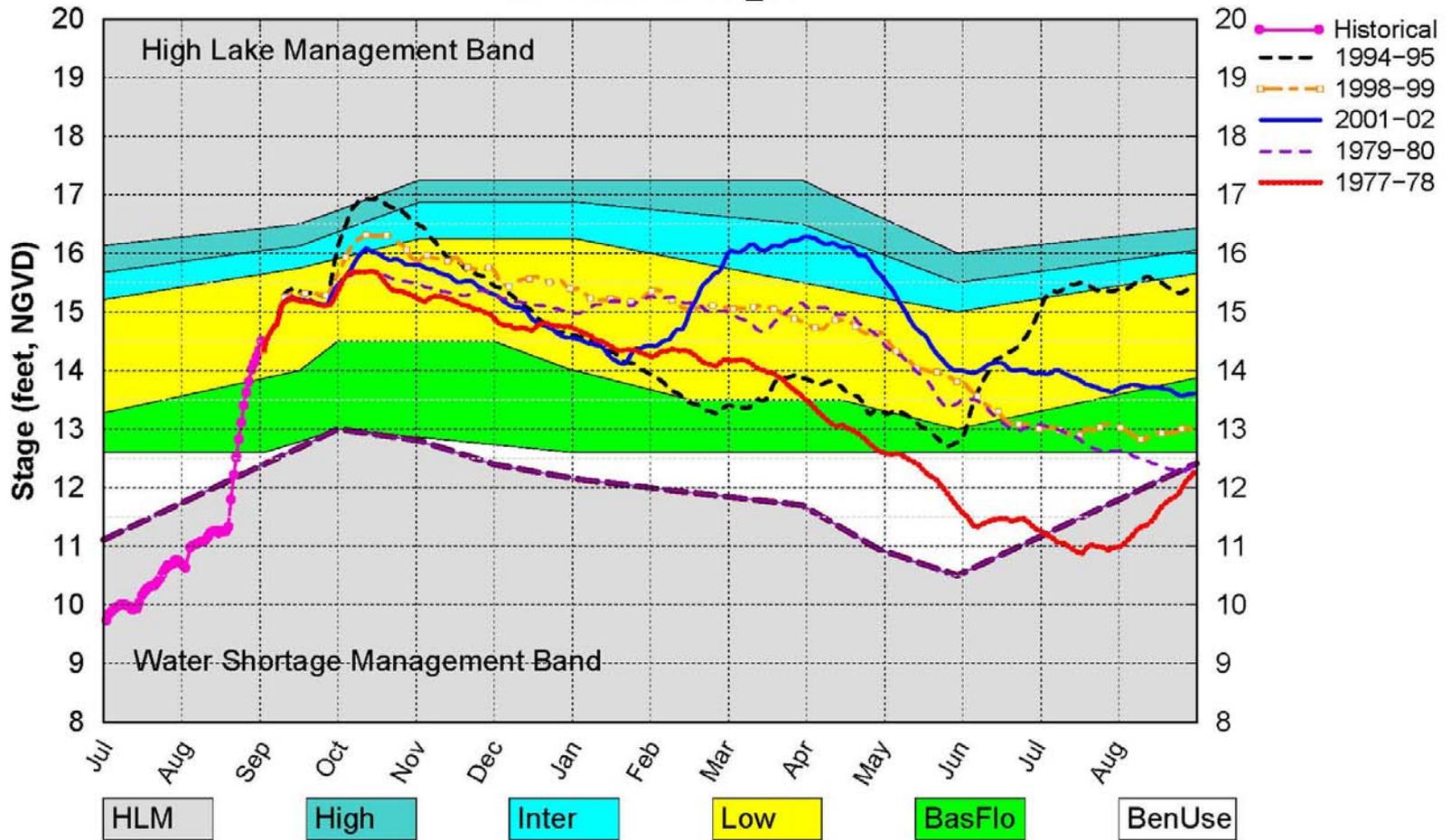
Dry Years Plot PA\_V7



(See assumptions on the Position Analysis Results website)

# Lake Okeechobee SFWMM September 2008 Position Analysis

Wet Years Plot PA\_V7



(See assumptions on the Position Analysis Results website)

# Thank you

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**U.S. Army Corps of Engineers,  
Jacksonville District Web site:**

[www.saj.usace.army.mil](http://www.saj.usace.army.mil)