# Application of the Lake Okeechobee Regulation Schedule (LORS2008) on 11/2/2015 (Developing El Nino Condition)

#### **Lake Okeechobee Net Inflow Outlook:**

The Lake Okeechobee Net Inflow Outlook has been computed using 4 methods: Croley's method<sup>1</sup>, the SFWMD empirical method<sup>2</sup>, a sub-sampling of El Nino years<sup>3</sup> and a sub-sampling of cold years of the Atlantic Multi-decadal Oscillation (AMO) in combination with ENSO El Nino years<sup>4</sup>. The results for Croley's method and the SFWMD empirical method are based on the CPC Outlook.

Table of the Lake Okeechobee Net Inflow Outlooks in feet of equivalent depth. All methods are updated on a weekly basis with observed net inflow for the current month.

| Season                             |               | roley's<br>ethod <sup>1*</sup> | SFWMD<br>Empirical<br>Method <sup>2</sup> |           | ENS           | ampling of<br>D El Nino<br>ears³ | Sub-sampling of<br>AMO Warm +<br>ENSO El Nino<br>Years <sup>4</sup> |           |  |
|------------------------------------|---------------|--------------------------------|---|-----------|---------------|----------------------------------|---|-----------|--|
|                                    | Value<br>(ft) | Condition                      | Value<br>(ft)                             | Condition | Value<br>(ft) | Condition                        | Value<br>(ft)   | Condition |  |
| Current<br>(Nov-<br>Apr)           | N/A           | N/A                            | 1.02                                      | Normal    | 1.73          | Wet                              | 2.13  | Very Wet  |  |
| Multi<br>Seasonal<br>(Nov-<br>Oct) | N/A           | N/A                            | 3.49                                      | Wet       | 3.99          | Wet                              | 6.06  | Very Wet  |  |

<sup>\*</sup>Croley's Method Not Produced For This Report

See <u>Seasonal</u> and <u>Multi-Seasonal</u> tables for the classification of Lake Okeechobee Outlooks.

The recommended methods and values for estimating the Lake Okeechobee Net Inflow Outlook are shaded and should be used in the LORS2008 Release Guidance Flow Charts.

#### **Tributary Hydrologic Conditions Graph:**

**696 cfs** 14-day running average for Lake Okeechobee Net Inflow through 11/2/2015. According to the classification in <u>Tributary Hydrologic Conditions</u> table, this condition is Normal.

**0.65** for Palmer Index on 11/1/2015.

According to the classification in <u>Tributary Hydrologic Conditions</u> table, this condition is Normal.

The wetter of the two conditions above is **Normal**.

### **LORS2008 Classification Tables:**

### Lake Okeechobee Stage on 11/2/2015

Lake Okeechobee Stage: 14.55 feet

**USACE** Report for Lake Okeechobee

Lake Okeechobee Stage Hydrograph

| Lake Okeechob       | ee Management         | Bottom Elevation | Current    |
|---------------------|-----------------------|------------------|------------|
| Zone                | Band Band             | (feet, NGVD)     | Lake Stage |
| High Lake Manag     | om out Dand           | 47.05            |            |
| High Lake Manage    | ement Band            | 17.25            |            |
|                     | High sub-band         | 16.88            |            |
| Operational<br>Band | Intermediate sub-band | 16.25            |            |
|                     | Low sub-band          | 14.50            | ← 14.55    |
| Base Flow sub-ba    | nd                    | 12.86            |            |
| Beneficial Use sub  | o-band                | 12.79            |            |
| Water Shortage M    | anagement Band        |                  |            |

#### Part C of LORS2008: Discharge to WCA's

Release Guidance Flow Chart Outcome: Up to Maximum Releases to the WCAs if Desirable or with Minimum Everglades Impacts

### Part D of LORS2008: Discharge to Tidewater

Release Guidance Flow Chart Outcome: S-79 up to 3000 cfs and S-80 up to 1170 cfs

### **Technical Input Summaries from:**

- Lake Okeechobee Division
- Coastal Ecosystems
- Everglades Ecosystems Division
- Water Supply Department
- Water Resource Management Release Recommendation
- Kissimmee Watershed Environmental Conditions
- Operations Department

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#### LORS2008 Implementation on 11/2/2015 (ENSO Neutral Condition):

#### **Water Supply Department Technical Input**

#### **Water Supply Outlook:**

District wide, Raindar rainfall 0.46 inches for the week ending 11/2/2015. Lake stage on 11/2/2015 is 14.55 ft, down 0.07 ft from last week.

The updated October 2015 SFWMM Dynamic Position Analysis <u>percentile graph</u> and <u>tracking chart</u> for Lake Okeechobee show that the lake stage is in the low Operational Sub-Band.

The LORS2008 tributary <u>indices</u> are classified as **Normal**. The PDSI indicates normal condition and the LONIN is Normal. The classification is based on the wetter of the two.

**Water Supply Risk Evaluation** 

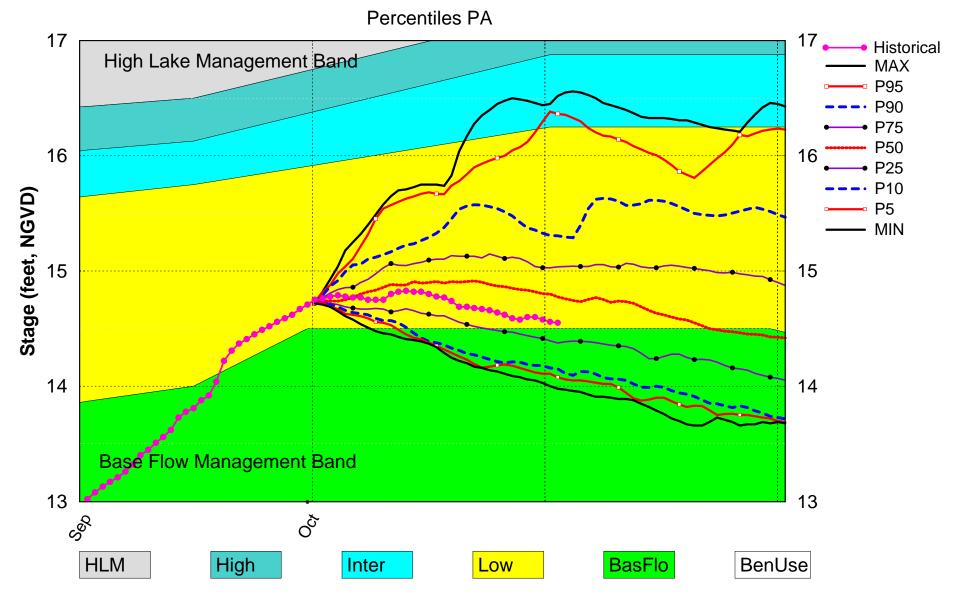
| Area | Indicator                                      | Value                                | Color Coded<br>Scoring Scheme |
|------|--|--------------------------------------|-------------------------------|
|      | Projected LOK Stage for the next two months    | Base Flow Sub-Band                   | M                             |
|      | Palmer Index for LOK Tributary Conditions      | 0.65<br>(Normal)                     | L                             |
| LOK  | CDC Presinitation Outland                      | 1 month: Above Normal                | L                             |
| LOK  | CPC Precipitation Outlook                      | 3 months: Above Normal               | L                             |
|      | LOK Seasonal Net Inflow Forecast               | 1.73 ft                              |                               |
|      | AMO warm/El Nino                               | (Normal to Extremely Wet)            | _                             |
|      | LOK Multi-Seasonal Net Inflow Forecast         | 2 00 ft ((Mat)                       |                               |
|      | AMO warm/El Nino                               | 3.99 ft (Wet)                        | L                             |
|      | WCA 1: Site 1-7,1-8T, & 1-9                    | (16.98 ft)                           | L                             |
| WCAs | WCA 2A: Site 2-17 HW                           | (12.56 ft)                           | ٦                             |
|      | WCA-3A: 3 Station Average (Site 63, 64 and 65) | (10.22 ft)                           | L                             |
|      | Service Area 1                                 | Year-Round Irrigation Rule in effect | L                             |
| LEC  | Service Area 2                                 | Year-Round Irrigation Rule in effect | L                             |
|      | Service Area 3                                 | Year-Round Irrigation Rule in effect | L                             |

Note: The water supply risk classification based on the Palmer index, as well as the LOK seasonal and multi-seasonal net inflow forecasts use slightly different classification intervals than those used by the 2008-LORS for classifying the tributary hydrologic condition (THC).

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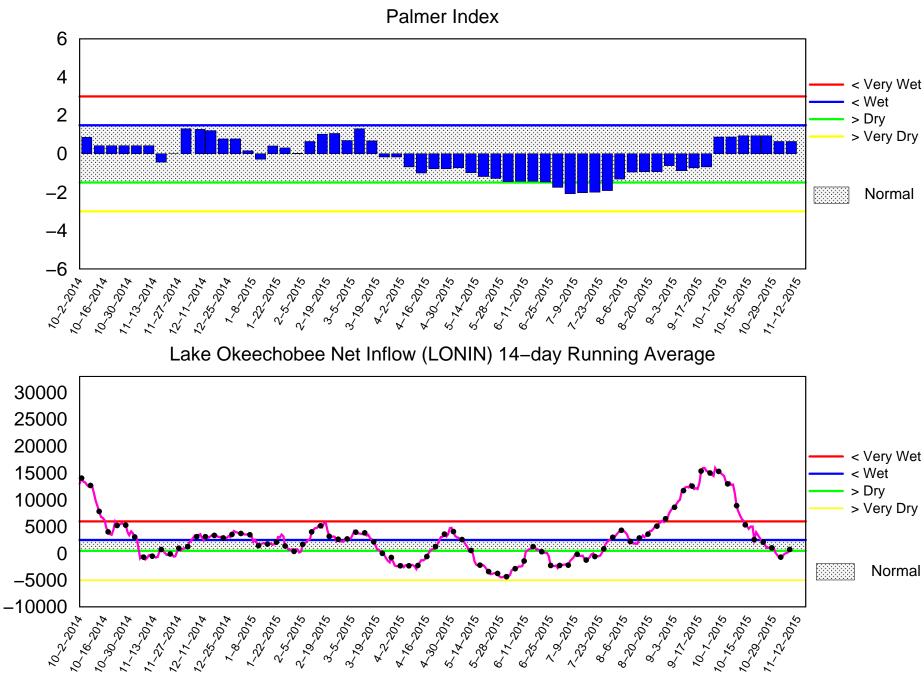
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# Lake Okeechobee SFWMM Oct 2015 Dynamic Position Analysis



(See assumptions on the Position Analysis Results website)

# Tributary Basin Condition Indicators as of November 02 2015

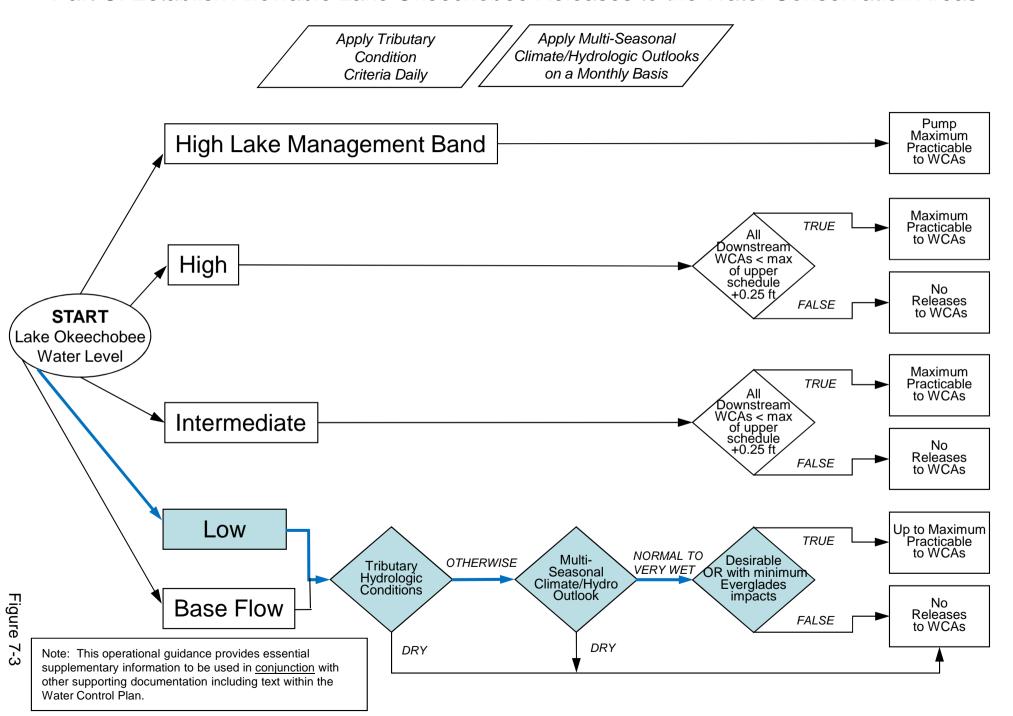


Flow (cfs)

Mon Nov 2 15:47:50 2015

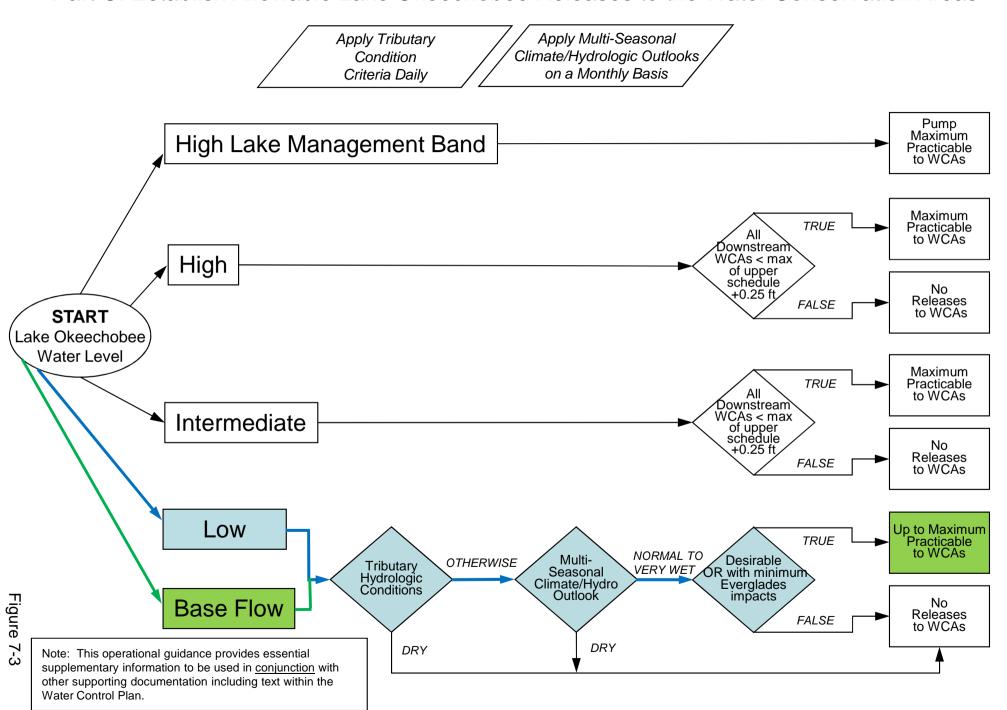
### **2008 LORS**

Part C: Establish Allowable Lake Okeechobee Releases to the Water Conservation Areas



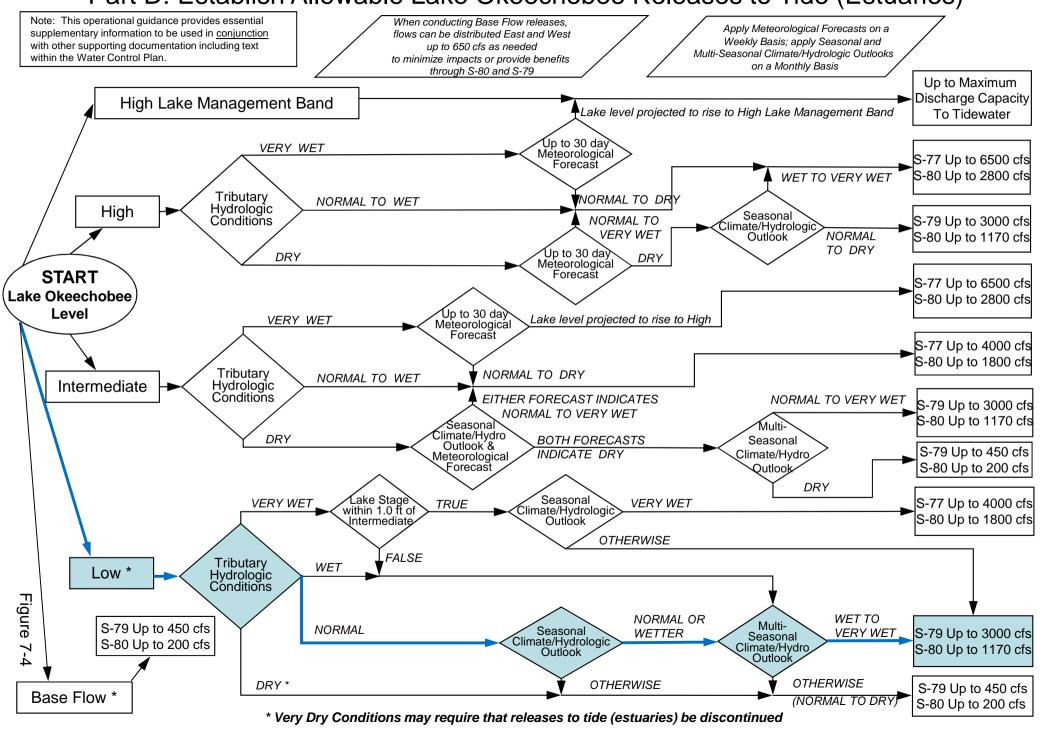
### 2008 LORS FORECAST

Part C: Establish Allowable Lake Okeechobee Releases to the Water Conservation Areas



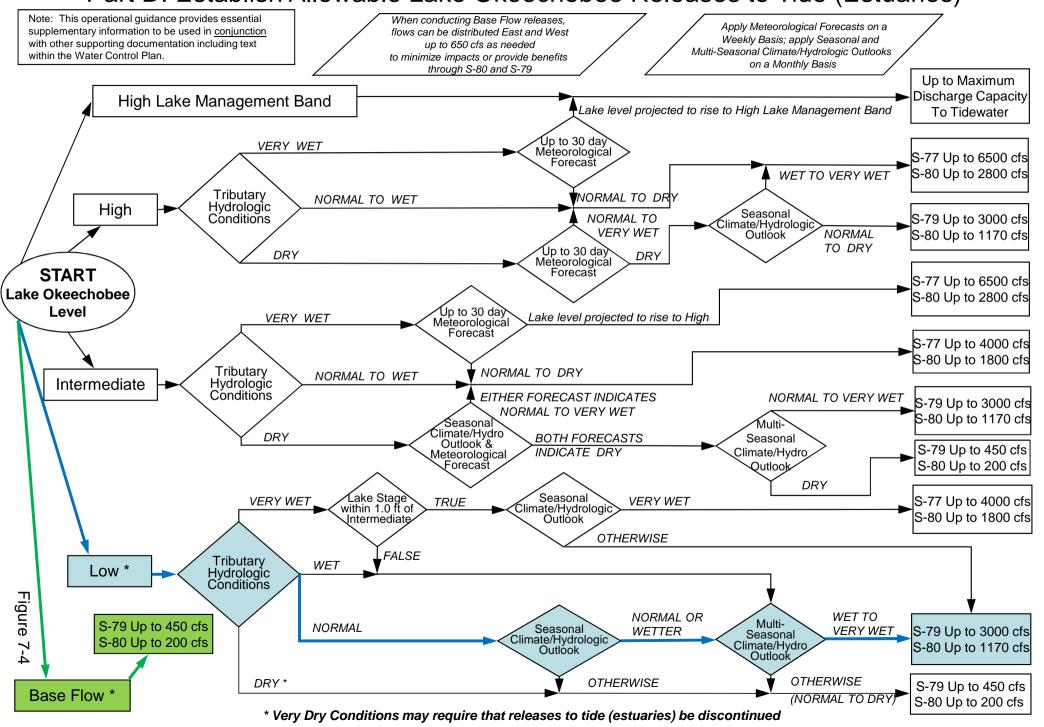
### **2008 LORS**

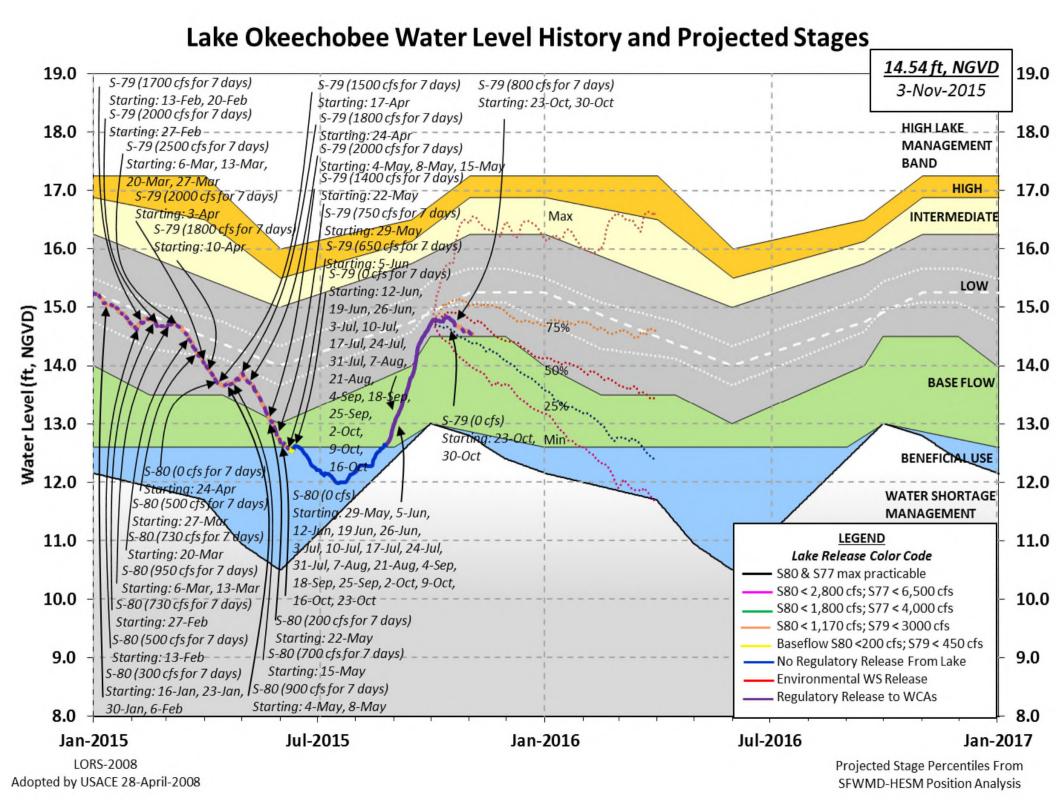
Part D: Establish Allowable Lake Okeechobee Releases to Tide (Estuaries)



### 2008 LORS FORECAST

Part D: Establish Allowable Lake Okeechobee Releases to Tide (Estuaries)





#### 

Data Ending 2400 hours 01 NOV 2015

| Okooghoboo I ako  |  |  |   |  |   |                      |
|---|--|--|---|--|---|----------------------|
| Okeechobee Lake   | Regulation   | 1  | Elevation   | n Last Y   | ear 2YRS Ago  |                      |
|   |  |  | (ft-NGVD  | (ft-NG   | VD) (ft-NGVD)   |                      |
| *Okeechobee La  | ake Elevati  | on   | 14.55   | 15.  | 84 15.22 (0:  | fficial Elv          |
| Bottom of High  | n Lake Mngm  | nt= 17.                                    | .25 Top (   | of Water S   | hort Mngmt= 12  | .79                  |
| Currently in C  | Operational  | Manag                                      | gement Bar  | nd   |   |                      |
| Simulated Aver  | cago IOPG20  | NOQ [10                                    | 265-20001   | 13.97  |   |                      |
| Difference fro  | _  |  |   | 0.58   |   |                      |
|   |  |  |   |  |   |                      |
| 01NOV (1965-20  |  |  | ecord Ave   | _  |   |                      |
| Difference fro  | om POR Aver  | rage                                       |   | -0.  | 48  |                      |
| Todav Lake Oke  | echobee el   | evatio                                     | on is deta  | ermined fro  | om the 4 Int &  | 4 Edge               |
| stations  |  | cvacio                                     | on ib deek  |  |   | 1 Lage               |
|   |  |  |   |  |   |                      |
| ++Navigation D<br>8.49'   | Depth (Base  | ed on 2                                    | 2007 Chanr  | nel Condit   | ion Survey) Ro  | ute 1 ÷              |
|   | enth (Base   | ed on S                                    | 0008 Chanr  | nel Condit   | ion Survey) Ro  | ute 2 ÷              |
| 6.69'   | осрен (вавс  | .a 011 2                                   | 1000 Chain  | ici condic   | ion barvey, Ro  | ucc 2 .              |
| Bridge Clearan  | nce = 49.10  | ) '  |   |  |   |                      |
|   |  |  |   |  |   |                      |
| _   |  |  |   |  |   |                      |
|   |  |  |   |  |   |                      |
| 1 Interior and 1  | 1 Edga Okac  | ahoboo                                     | n Tako Aw   | arago (Aug   | -Daily values)  | •                    |
| 4 Interior and 4  | ł Edge Okee  | chobe                                      | e Lake Ave  | erage (Avg   | -Daily values)  | :                    |
|   |  |  |   |  | -Daily values)  | :                    |
|   | L006 LZ4   | 10 S4                                      | 1 S352  | 2 S308   | S133  | :                    |
| L001 L005   | L006 LZ4   | 10 S4                                      | 1 S352  | 2 S308   | S133  | :                    |
| L001 L005<br>14.45 14.63  | L006 LZ4   | 10 S4<br>52 14                             | 1 S352<br>1.59 14.5   | 2 S308<br>59 14.44                                       | S133<br>14.55   | :                    |
| L001 L005   | L006 LZ4   | 10 S4<br>52 14                             | 1 S352<br>1.59 14.5   | 2 S308<br>59 14.44                                       | S133<br>14.55   | :                    |
| L001 L005<br>14.45 14.63  | L006 LZ4   | 10 S4<br>52 14                             | 1 S352<br>1.59 14.5   | 2 S308<br>59 14.44                                       | S133<br>14.55   | :                    |
| L001 L005<br>14.45 14.63  | L006 LZ4   | 10 S4<br>52 14                             | 1 S352<br>1.59 14.5   | 2 S308<br>59 14.44                                       | S133<br>14.55   | :                    |
| L001 L005<br>14.45 14.63<br>*Combination Ok   | L006 LZ4 14.60 14.   | 10 S4<br>52 14                             | 1 S352<br>1.59 14.5   | 2 S308<br>59 14.44                                       | S133<br>14.55   | :                    |
| L001 L005 14.45 14.63  *Combination Ok  - Okeechobee Inflo  | L006 LZ4 14.60 14.  Reechobee  | 10 S4<br>52 14<br>Avg-Da                   | 1 S352<br>1.59 14.5   | 2 S308<br>59 14.44<br>Average =                          | S133<br>14.55<br>14.55<br>(*See Note)   |                      |
| L001 L005 14.45 14.63  *Combination Ok  - Okeechobee Inflo  | L006 LZ4 14.60 14.  seechobee  ows (cfs): 1821                               | 10 S4<br>52 14<br>Avg-Da                   | 1 S352<br>1.59 14.5   | 2 S308<br>59 14.44<br>Average =                          | S133<br>14.55<br>14.55<br>(*See Note)   | r 200                |
| L001 L005 14.45 14.63  *Combination Ok  | L006 LZ4 14.60 14.  Reechobee  Dws (cfs): 1821 1                             | 10 S4<br>52 14<br>Avg-Da                   | 1 S352<br>1.59 14.5<br>aily Lake                            | 2 S308<br>59 14.44<br>Average =                          | S133 14.55  14.55 (*See Note)  Fisheating C: S135 Pumps                                     |                      |
| L001 L005 14.45 14.63  *Combination Ok  - Okeechobee Inflo S65E S154 S84  | L006 LZ4 14.60 14.  Exception (cfs): 1821 1 247                              | 10 S4 52 14  Avg-Da  C5 S191 S133          | 1 S352<br>1.59 14.5<br>aily Lake                            | 2 S308<br>59 14.44<br>Average =<br>0<br>0                | S133 14.55  14.55 (*See Note)  Fisheating C: S135 Pumps S2 Pumps                            | r 200<br>0<br>0      |
| L001 L005 14.45 14.63  *Combination Ok  - Okeechobee Inflo S65E S154 S84 S84X   | L006 LZ4 14.60 14.  Reechobee  Dws (cfs): 1821 1                             | C5<br>S191<br>S133<br>S127                 | 1 S352<br>1.59 14.5<br>aily Lake<br>Pumps<br>Pumps          | 2 S308<br>59 14.44<br>Average =<br>0<br>0<br>0           | S133 14.55  14.55 (*See Note)  Fisheating C: S135 Pumps S2 Pumps S3 Pumps                   | r 200<br>0           |
| L001 L005 14.45 14.63  *Combination Ok  - Okeechobee Inflo S65E S154 S84  | L006 LZ4 14.60 14.  Reechobee  Dws (cfs): 1821 1 247 811                     | C5<br>S191<br>S133<br>S127<br>S129         | 1 S352<br>1.59 14.5<br>aily Lake                            | 2 S308<br>59 14.44<br>Average =<br>0<br>0<br>0<br>0      | S133 14.55  14.55 (*See Note)  Fisheating C: S135 Pumps S2 Pumps                            | r 200<br>0<br>0      |
| L001 L005 14.45 14.63  *Combination Ok  - Okeechobee Inflo S65E S154 S84 S84X S71 S72                                 | L006 LZ4 14.60 14.  Exception (cfs): 1821 1 247 811 0                        | C5<br>S191<br>S133<br>S127<br>S129         | 1 S352<br>1.59 14.5<br>aily Lake<br>Pumps<br>Pumps<br>Pumps | 2 S308<br>59 14.44<br>Average =<br>0<br>0<br>0<br>0      | S133 14.55  14.55 (*See Note)  Fisheating C: S135 Pumps S2 Pumps S3 Pumps                   | r 200<br>0<br>0      |
| L001 L005 14.45 14.63  *Combination Ok  | L006 LZ4 14.60 14.  Reechobee  DWS (cfs): 1821 1 247 811 0 3080              | C5<br>S191<br>S133<br>S127<br>S129<br>S131 | 1 S352<br>1.59 14.5<br>aily Lake<br>Pumps<br>Pumps<br>Pumps | 2 S308<br>59 14.44<br>Average =<br>0<br>0<br>0<br>0      | S133 14.55  14.55 (*See Note)  Fisheating C: S135 Pumps S2 Pumps S3 Pumps                   | r 200<br>0<br>0      |
| L001 L005 14.45 14.63  *Combination Ok  | L006 LZ4 14.60 14.  Reechobee  DWS (cfs): 1821 1 247 811 0 3080  Lows (cfs): | C5<br>S191<br>S127<br>S129<br>S131         | 1 S352<br>1.59 14.5<br>aily Lake<br>Pumps<br>Pumps<br>Pumps | 2 S308<br>59 14.44<br>Average =<br>0<br>0<br>0<br>0<br>0 | S133 14.55  14.55 (*See Note)  Fisheating C: S135 Pumps S2 Pumps S2 Pumps S3 Pumps S4 Pumps | r 200<br>0<br>0<br>0 |
| L001 L005 14.45 14.63  *Combination Ok  | L006 LZ4 14.60 14.  Reechobee  DWS (cfs): 1821 1 247 811 0 3080              | C5<br>S191<br>S133<br>S127<br>S129<br>S131 | 1 S352<br>1.59 14.5<br>aily Lake<br>Pumps<br>Pumps<br>Pumps | 2 S308<br>59 14.44<br>Average =<br>0<br>0<br>0<br>0      | S133 14.55  14.55 (*See Note)  Fisheating C: S135 Pumps S2 Pumps S3 Pumps                   | r 200<br>0<br>0      |
| L001 L005 14.45 14.63  *Combination Ok  - Okeechobee Inflo S65E S154 S84 S84X S71 S72 Total Inflows: Okeechobee Outfl | L006 LZ4 14.60 14.  Reechobee  DWS (cfs): 1821 1 247 811 0 3080  Lows (cfs): | C5<br>S191<br>S127<br>S129<br>S131         | 1 S352<br>1.59 14.5<br>aily Lake<br>Pumps<br>Pumps<br>Pumps | 2 S308<br>59 14.44<br>Average =<br>0<br>0<br>0<br>0<br>0 | S133 14.55  14.55 (*See Note)  Fisheating C: S135 Pumps S2 Pumps S2 Pumps S3 Pumps S4 Pumps | r 200<br>0<br>0<br>0 |

| S129 Culverts   | 0       | S352          | 1063      | S308      | 0      |  |  |  |  |  |
|---|---------|---------------|-----------|-----------|--------|--|--|--|--|--|
| (Used) S131 Culverts USED)  | 0       | L8 Canal Pt   | 186       | S308Below | 5 (NOT |  |  |  |  |  |
| Total Outflows: 4   | 002     |               |           |           |        |  |  |  |  |  |
| ****S77 Structure o   |         | _             | -         |           |        |  |  |  |  |  |
| Okeechobee Pan Evaporation (inches):  S77 0.25 S308 0.15  Average Pan Evap x 0.75 Pan Coefficient = 0.15" = 0.01' |         |               |           |           |        |  |  |  |  |  |
| Lake Average Precip   | itation | using NEXRAD: | = 0.00" = | 0.00'     |        |  |  |  |  |  |
| <pre>Evaporation - Precipitation:</pre>   |         |               |           |           |        |  |  |  |  |  |
| _   |         |               |           |           |        |  |  |  |  |  |

Note: Headwater, tailwater, and stage values below are instantaneous values unless otherwise specified.

|                                    | Headwater | Tailwater |          |          |      | Gat   | e Pos | sition | ıs       |            |
|------------------------------------|-----------|-----------|----------|----------|------|-------|-------|--------|----------|------------|
| #8                                 | Elevation | Elevation | Disch    | #1       | #2   | #3    | #4    | #5     | #6 #7    | 7          |
|                                    | (ft-msl)  | (ft-msl)  | (cfs)    | (ft)     | (ft) | (ft)  | (ft)  | (ft)   | (ft) (ft | <b>:</b> ) |
| (ft)                               |           | (т        | ) see n  | ote at   | hott | - Om  |       |        |          |            |
| North East Sl                      | hore      | ( ±       | , see ii | occ ac   | Doce | 20111 |       |        |          |            |
| S133 Pumps<br>S193:                |           | 14.59     | 0        | 0        | 0    | 0     | 0     | 0      | (cfs)    |            |
| S191:                              | 18.33     | 14.53     | 0        | 0.0      | 0.0  | 0.0   |       |        |          |            |
| S135 Pumps                         | :         | -NR-      | 0        | 0        | 0    | 0     | 0     |        | (cfs)    |            |
| S135 Culve                         | rts:      |           | -NR-     | -NR-     | -NR- |       |       |        |          |            |
| North West Si                      |           |           |          |          |      |       |       |        |          |            |
|                                    |           | 14.47     | _        |          |      |       |       |        | 0.7      |            |
| S127 Pumps<br>S127 Culve           |           | 14.60     | 0<br>0   | 0.0      | 0    | 0     | 0     | 0      | (cfs)    |            |
| S129 Pumps<br>S129 Culve           |           | 14.61     | 0<br>0   | 0<br>0.1 | 0    | 0     |       |        | (cfs)    |            |
| S131 Pumps<br>S131 Culve           |           | 14.64     | 0        | 0        | 0    |       |       |        | (cfs)    |            |
| Fisheating<br>nr Palmd<br>nr Lakep | ale       | 31.21     | 200      |          |      |       |       |        |          |            |

| C5:            | 14.84      | 14.63    | 0         | 0.0    | 0.0    | 0.0    |       |     |      |     |
|----------------|------------|----------|-----------|--------|--------|--------|-------|-----|------|-----|
| South Shore    |            |          |           |        |        |        |       |     |      |     |
| S4 Pumps:      | 11.01      | 14.54    | 0         | 0      |        | 0      |       |     | (cfs | 3)  |
| S169:          | 14.54      | 10.99    | 0         | 0.0    | 0.1    | 0.0    |       |     |      |     |
| S310:          | 14.48      |          | 27        |        |        |        |       |     |      |     |
| S3 Pumps:      | 10.04      | 14.52    | 0         | 0      | 0      | 0      |       |     | (cfs | 3)  |
| S354:          | 14.52      | 10.04    | 189       | 0.2    | 0.4    |        |       |     | •    | ,   |
| S2 Pumps:      | 10.60      | 14.47    | 0         | 0      |        | 0      | 0     |     | (cfs | : ) |
| S351:          | 14.47      | 10.60    | 950       |        | -NR-   |        | O     |     | (CIS | , , |
|                |            |          |           | 2.2    |        | -1111  |       |     |      |     |
| S352:          | 14.60      | 11.65    | 1063      |        |        | - 0    |       | . – | 0 -  |     |
| C10A:          | -NR-       | 13.90    | 106       | 0.0    | 8.5    | 5 8.   | 5 8   | 3.5 | 8.5  |     |
| L8 Canal PT    |            | 13.69    | 186       |        |        |        |       |     |      |     |
|                | S351       | and S352 | ? Tempora | ary Pu | mps/Si | 354 Sp | illwa | ıy  |      |     |
| S351:          | 10.60      | 14.47    | 950       | -NR    | NRNI   | RNR-   | -NR   | NR- |      |     |
| S352:          | 11.65      | 14.60    |           | -NR    |        |        |       |     |      |     |
| S354:          | 10.04      | 14.52    | 189       |        |        |        |       |     |      |     |
|                |            |          |           |        |        |        |       |     |      |     |
| Caloosahatche  |            |          | S79)      |        |        |        |       |     |      |     |
| S47B:          | 14.99      | 11.02    |           |        | 0.5    |        |       |     |      |     |
| S47D:<br>S77:  | 10.96      | 10.95    | -3        | 5.0    |        |        |       |     |      |     |
|                | and Coatas | Eleve.   |           |        |        |        |       |     |      |     |
| Spillway a     |            |          | 1.00      | 0 0    | 2 0    | 2 0    | 0 0   |     |      |     |
|                | 14.37      | 11.00    | 1606      | 0.0    | 3.0    | 3.0    | 0.0   |     |      |     |
| Flow Due t     | to Lockage | s+:      | 8         |        |        |        |       |     |      |     |
| S77 Below US   | SGS Flow G | age      | 1293      |        |        |        |       |     |      |     |
| S78:           |            |          |           |        |        |        |       |     |      |     |
| Spillway a     | and Sector | Flow:    |           |        |        |        |       |     |      |     |
|                | 10.84      | 3.12     | 946       | 0.5    | 0.5    | 1.0    | 0.5   |     |      |     |
| Flow Due t     |            |          | 15        | 0.3    | 0.5    | 1.0    | 0.5   |     |      |     |
| S79:           |            |          |           |        |        |        |       |     |      |     |
| Spillway a     | and Sector | Flow:    |           |        |        |        |       |     |      |     |
|                | 3.24       | 1.82     | 1424      | 0 0    | 1.0    | 1.0    | 1.0   | 1.0 | 1.0  | 1.0 |
| 0.0            |            | 02       |           | 0.0    | 0      | 0      |       | ,   |      |     |
| Flow Due t     | o Lockeco  | q+:      | 6         |        |        |        |       |     |      |     |
| Percent of     |            |          | 113%      |        |        |        |       |     |      |     |
| Chloride       | T TIOW ITO |          | 58        |        |        |        |       |     |      |     |
| CIITOLIGE      |            | (ppm)    | ٥٥        |        |        |        |       |     |      |     |
| St. Lucie Cana | al (S308.  | S80)     |           |        |        |        |       |     |      |     |
| S308:          | <i>,</i>   | •        |           |        |        |        |       |     |      |     |
| Spillway a     | and Sector | Flow:    |           |        |        |        |       |     |      |     |
|                | 14.44      | 14.40    | 0         | 0.0    | 0.0    | 0.0    | 0.0   |     |      |     |
| Flow Due t     |            |          | 0         | 0.0    | 0.0    | 3.0    | 3.0   |     |      |     |
| TIOW DUE (     | JO LOCKAGE |          | U         |        |        |        |       |     |      |     |
| S308 Below U   | ICCC Flor  | Cace     | <b>E</b>  |        |        |        |       |     |      |     |
|                |            |          | 5<br>0    | 0 0    | 0 0    |        |       |     |      |     |
| S153:          | 18.69      | 14.23    | U         | 0.0    | 0.0    |        |       |     |      |     |
| S80:           | 1 ~        |          |           |        |        |        |       |     |      |     |
| Spillway a     |            |          |           |        |        |        |       |     |      |     |
|                | 14.54      | 1.15     | 0         | 0.0    | 0.0    | 0.0    | 0.0   | 0.0 | 0.0  | 0.0 |
|                |            |          |           |        |        |        |       |     |      |     |

```
Flow Due to Lockages+: 31
Percent of flow from S308 NA %

Steele Point Top Salinity (mg/ml) ****
Steele Point Bottom Salinity (mg/ml) ****

Speedy Point Top Salinity (mg/ml) ****
Speedy Point Bottom Salinity (mg/ml) ****
```

+ Flow Due to lockages is computed utilizing average daily headwater and tailwater along with total number of lockages for the day to calculate a volume which is then converted to an average discharge in cfs.

| _  |             |          |          | Wi       | nd   |
|--|-------------|----------|----------|----------|------|
| -<br>Daily Precipitation Totals<br>Speed | 1-Day       | 3-Day    | 7-Day    | Directio | on   |
| -  | (inches)    | (inches) | (inches) | (Degø)   |      |
| (mph)                                    |             |          |          |          |      |
| S133 Pump Station:                       | 0.00        | 0.00     | 0.07     |          |      |
| S193:                                    | -NR-        | 0.00     | 0.00     | -NR-     | -NR- |
| Okeechobee Field Station:                | -NR-        | 0.00     | 0.00     |          |      |
| S135 Pump Station:                       | 0.00        | 0.00     | 0.02     |          |      |
| S127 Pump Station:                       | 0.00        | 0.00     | 0.00     |          |      |
| S129 Pump Station:                       | 0.00        | 0.00     | 0.00     |          |      |
| S131 Pump Station:                       | 0.00        | 0.00     | 0.00     |          |      |
| S77:                                     | 0.33        | 0.33     | 0.37     | 168      | 1    |
| S78:                                     | 0.00        | 0.00     | 0.16     | 106      | 3    |
| S79:                                     | 0.00        | 0.00     | 1.16     | 176      | 2    |
| S4 Pump Station:                         | -NR-        | 0.00     | 0.00     |          |      |
| Clewiston Field Station:                 | -NR-        | 0.00     | 0.00     |          |      |
| S3 Pump Station:                         | 0.00        | 0.00     | 0.04     |          |      |
| S2 Pump Station:                         | 0.00        | 0.00     | 0.07     |          |      |
| S308:                                    | 0.00        | 0.00     | 0.00     | 99       | 2    |
| S80:                                     | 0.00        | 0.00     | 0.00     | 212      | 1    |
| Okeechobee Average                       | 0.04        | 0.03     | 0.04     |          |      |
| (Sites S78, S79 and                      | S80 not ind | cluded)  |          |          |      |
| Oke Nexrad Basin Avg                     | 0.00        | 0.00     | 0.08     |          |      |

| _<br>Okeechobee Lake Elevations<br>01NOV15 | 01 NOV 2015 | 14.55 Difference | e from |
|--|-------------|------------------|--------|
| 01NOV15 -1 Day =                           | 31 OCT 2015 | 14.56            | 0.01   |
| 01NOV15 - 2 Days =                         | 30 OCT 2015 | 14.58            | 0.03   |
| 01NOV15 - 3 Days =                         | 29 OCT 2015 | 14.60            | 0.05   |
| 01NOV15 - 4 Days =                         | 28 OCT 2015 | 14.60            | 0.05   |
| 01NOV15 - 5 Days =                         | 27 OCT 2015 | 14.58            | 0.03   |
| 01NOV15 - 6 Days =                         | 26 OCT 2015 | 14.59            | 0.04   |
| 01NOV15 - 7 Days =                         | 25 OCT 2015 | 14.62            | 0.07   |
| 01NOV15 - 30 Days =                        | 02 OCT 2015 | 14.78            | 0.23   |
| 01NOV15 -1 Year =                          | 01 NOV 2014 | 15.84            | 1.29   |
| 01NOV15 - 2 Year =                         | 01 NOV 2013 | 15.22            | 0.67   |

Long Term Mean 30day Avearge ET for Lake Alfred (Inches) = -NR-

| Lor | ıg Term I | Mean | 30da  | y A | vearg | ge E' | r for | r Lake | Alfred ( | Inches) =  | -NR-        |     |
|-----|-----------|------|-------|-----|-------|-------|-------|--------|----------|------------|-------------|-----|
| _   |           |      |       |     |       | _     | _     |        |          |            |             |     |
|     |           |      |       |     |       |       |       |        |          | ow (LONIN) |             |     |
|     |           |      |       |     | rage  |       |       |        | previous | _          | Avg-Daily F | low |
|     | 01NOV15   |      | Today |     |       |       |       | 2015   | 240      | MON        | 1877        |     |
|     | 01NOV15   |      | Day   |     |       |       |       | 2015   | -282     | SUN        | -241        |     |
|     | 01NOV15   |      | Days  |     |       |       |       | 2015   | -276     | SAT        | -1018       |     |
|     | 01NOV15   |      | Days  |     |       |       |       | 2015   | -366     | FRI        | 2621        |     |
|     | 01NOV15   |      | Days  |     |       |       |       | 2015   | -3958    | THU        | 6282        |     |
|     | 01NOV15   |      | Days  |     |       |       |       | 2015   | -4294    | WED        | 1240        |     |
|     | 01NOV15   |      | Days  |     |       |       |       | 2015   | -4355    | TUE        | -2688       |     |
|     | 01NOV15   |      | Days  |     |       |       |       | 2015   | -3763    | MON        | -319        |     |
|     | 01NOV15   | -8   | Days  | =   |       |       |       | 2015   | -3219    | SUN        | -61         |     |
|     | 01NOV15   | -9   | Days  | =   |       | 23    | OCT   | 2015   | -2162    | SAT        | 2332        |     |
|     | 01NOV15   |      |       |     |       | 22    | OCT   | 2015   | -2123    | FRI        | 1235        |     |
|     | 01NOV15   | -11  | Days  | =   |       | 21    | OCT   | 2015   | -1966    | THU        | -NR-        |     |
|     | 01NOV15   | -12  | Days  | =   |       | 20    | OCT   | 2015   | -1948    | WED        | -NR-        |     |
|     | 01NOV15   | -13  | Days  | =   |       | 19    | OCT   | 2015   | -1607    | TUE        | -8378       |     |
|     |           |      |       |     |       |       |       |        |          |            |             |     |
| _   |           |      |       |     |       |       |       |        |          |            |             |     |
|     |           |      |       |     |       |       |       |        |          |            |             |     |
| _   |           |      |       |     |       |       | S     | 55E    |          |            |             |     |
|     |           |      |       |     | Aver  |       |       |        | previous |            | Avg-Daily F | low |
|     | 01NOV15   |      | Toda  | y=  |       |       |       | 2015   | 1917     | MON        | 1821        |     |
|     | 01NOV15   | -1   | Day   | =   |       | 31    | OCT   | 2015   | 1950     | SUN        | 1919        |     |
|     | 01NOV15   | -2   | Days  | =   |       | 30    | OCT   | 2015   | 1971     | SAT        | 1953        |     |
|     | 01NOV15   | -3   | Days  | =   |       | 29    | OCT   | 2015   | 1991     | FRI        | 2130        |     |
|     | 01NOV15   | -4   | Days  | =   |       | 28    | OCT   | 2015   | 2013     | THU        | 2132        |     |
|     | 01NOV15   | -5   | Days  | =   |       | 27    | OCT   | 2015   | 2043     | WED        | 1826        |     |
|     | 01NOV15   | -6   | Days  | =   |       | 26    | OCT   | 2015   | 2097     | TUE        | 1986        |     |
|     | 01NOV15   | -7   | Days  | =   |       | 25    | OCT   | 2015   | 2143     | MON        | 1647        |     |
|     | 01NOV15   | -8   | Days  | =   |       | 24    | OCT   | 2015   | 2203     | SUN        | 1741        |     |
|     | 01NOV15   | -9   | Days  | =   |       | 23    | OCT   | 2015   | 2292     | SAT        | 2068        |     |
|     | 01NOV15   | -10  | Days  | =   |       | 22    | OCT   | 2015   | 2332     | FRI        | 1975        |     |
|     | 01NOV15   |      | _     |     |       | 21    | OCT   | 2015   | 2416     | THU        | 1718        |     |
|     | 01NOV15   |      | -     |     |       |       |       | 2015   | 2526     | WED        | 1805        |     |
|     | 01NOV15   |      | _     |     |       |       |       | 2015   | 2634     | TUE        | 2111        |     |
|     |           |      |       |     |       |       |       |        |          |            | ·           |     |
|     |           |      |       |     |       |       |       |        |          |            |             |     |

\_ Lake Okeechobee Outlets Last 14 Days

|    |      |      | 0 77       | 0 77      | Deless 0 77 | g 70        | G 70      | 0.70      |
|----|------|------|------------|-----------|-------------|-------------|-----------|-----------|
|    |      |      | S-77       | S-77      | Below S-77  | S-78        | S-78      | S-79      |
|    |      |      | Discharge  | Discharge | Discharge   | Discharge   | Discharge | Discharge |
|    |      | (    | 0700-2100) | (ALL DAY) | (ALL-DAY)   | (0700-2100) | (ALL DAY) | (ALL DAY) |
|    | DATE | C    | (AC-FT)    | (AC-FT)   | (AC-FT)     | (AC-FT)     | (AC-FT)   | (AC-FT)   |
| 01 | NOV  | 2015 | 1696       | -NA-      | 2564        | 1059        | 1905      | 2836      |
| 31 | OCT  | 2015 | 2041       | 3226      | *****       | 1269        | 2005      | 3103      |
| 30 | OCT  | 2015 | 1163       | 1584      | -21416      | 983         | 1206      | 1986      |
| 29 | OCT  | 2015 | 244        | -NA-      | 258         | 0           | 30        | 187       |
| 28 | OCT  | 2015 | 399        | -NA-      | 241         | 0           | 119       | 826       |
| 27 | OCT  | 2015 | 677        | -NA-      | 681         | 219         | 560       | 1099      |
| 26 | OCT  | 2015 | 884        | -NA-      | 1367        | 609         | 1209      | 1615      |
| 25 | OCT  | 2015 | 1359       | -NA-      | 1873        | 890         | 1575      | 2256      |

| 0.4 |       | 0015 | 1550      |             | 0010         | 1000      | 1001        | 2500 |
|-----|-------|------|-----------|-------------|--------------|-----------|-------------|------|
|     |       | 2015 | 1758      | -NA-        | 2319         | 1002      | 1831        | 3520 |
|     |       | 2015 | 1356      | -NA-        | 1785         | 993       | -NR-        | 2075 |
|     |       | 2015 | 347       | -NA-        | 211          | 62        | 111         | 6    |
|     |       | 2015 | 706       | -NA-        | 462          | 0         | 16          | 5    |
|     |       | 2015 | 575       | -NA-        | 263          | 0         | 20          | 172  |
| 19  | OC.I. | 2015 | 29        | -NA-        | -104         | 0         | 16          | 422  |
|     |       |      | S-310     | S-351       | S-352        | S-354     | L8 Canal Pt |      |
|     |       | т    | Discharge | Discharge   |              | Discharge | Discharge   |      |
|     |       |      | (ALL DAY) | (ALL DAY)   | (ALL DAY)    | (ALL DAY) | (ALL DAY)   |      |
|     | DATI  |      | (AC-FT)   | (ALL DAI)   | (ALL DAI)    | (ALL DAI) | (AC-FT)     |      |
| 0.1 |       | 2015 | 53        | 1884        | 2108         | 375       | 369         |      |
|     |       | 2015 | 79        | 2001        | 2086         | 212       | 401         |      |
|     |       | 2015 | 154       | 1624        | 1995         | 561       | 416         |      |
|     |       | 2015 | 44        | 1808        | 1848         | 292       | 408         |      |
|     |       | 2015 | 46        | 682         | 1799         | 0         | 412         |      |
|     |       | 2015 | 87        | 2273        | 1840         | 69        | 401         |      |
|     |       | 2015 | 143       | 2390        |              |           | 401         |      |
|     |       | 2015 |           | 2455        | 1874<br>1953 | 139       |             |      |
|     |       | 2015 | 91        |             |              | 331       | 410         |      |
|     |       |      | 146       | 2540        | 1922         | 301       | 405         |      |
|     |       | 2015 | 155       | 2742        | 1910         | 529       | 406         |      |
|     |       | 2015 | 176       | 2542        | 1910         | 432       | 411         |      |
|     |       | 2015 | -NR-      | 2031        | 1870         | -NR-      | 390         |      |
|     |       | 2015 | 107       | 2306        | 1951         | -NR-      | 412         |      |
| 19  | OC.I. | 2015 | 86        | 1563        | 1801         | 290       | 505         |      |
|     |       |      | S-308     | Below S-308 | 3 S-80       |           |             |      |
|     |       | Ι    | Discharge | Discharge   | Discharge    | 2         |             |      |
|     |       |      | (ALL DAY) | (ALL-DAY)   | (ALL-DAY)    |           |             |      |
|     | DATI  |      | (AC-FT)   | (AC-FT)     | (AC-FT)      |           |             |      |
| 01  |       | 2015 | 0         | 11          | 61           |           |             |      |
| 31  | OCT   | 2015 | 0         | 159         | 60           |           |             |      |
|     |       | 2015 | -NA-      | 59          | 60           |           |             |      |
|     |       | 2015 | -NA-      | -45         | 58           |           |             |      |
|     |       | 2015 | -NA-      | 233         | 65           |           |             |      |
|     |       | 2015 | -NA-      | 363         | 50           |           |             |      |
|     |       | 2015 | -NA-      | 432         | 40           |           |             |      |
|     |       | 2015 | 156       | 377         | 29           |           |             |      |
|     |       | 2015 | 163       | 299         | 40           |           |             |      |
|     |       | 2015 | -NA-      | 849         | 32           |           |             |      |
|     |       | 2015 | 573       | 559         | 34           |           |             |      |
|     |       | 2015 | 3         | 473         | 34           |           |             |      |
|     |       | 2015 | 2         | 445         | 30           |           |             |      |
|     |       | 2015 | 0         | 31          | 13           |           |             |      |
|     |       |      | •         |             | _==          |           |             |      |

\*\*\* NOTE: 1) Discharge from (0700-2100) is computed using Spillway and Sector

Gate Discharges from 0700 hrs to 2100 hrs.

2) Discharge (ALL DAY) is computed using Spillway, Sector Gate and

Lockages Discharges from 0015 hrs to 2400 hrs.

(I) - Flows preceded by "I" signify an instantaneous flow computed from the single value reported for the day

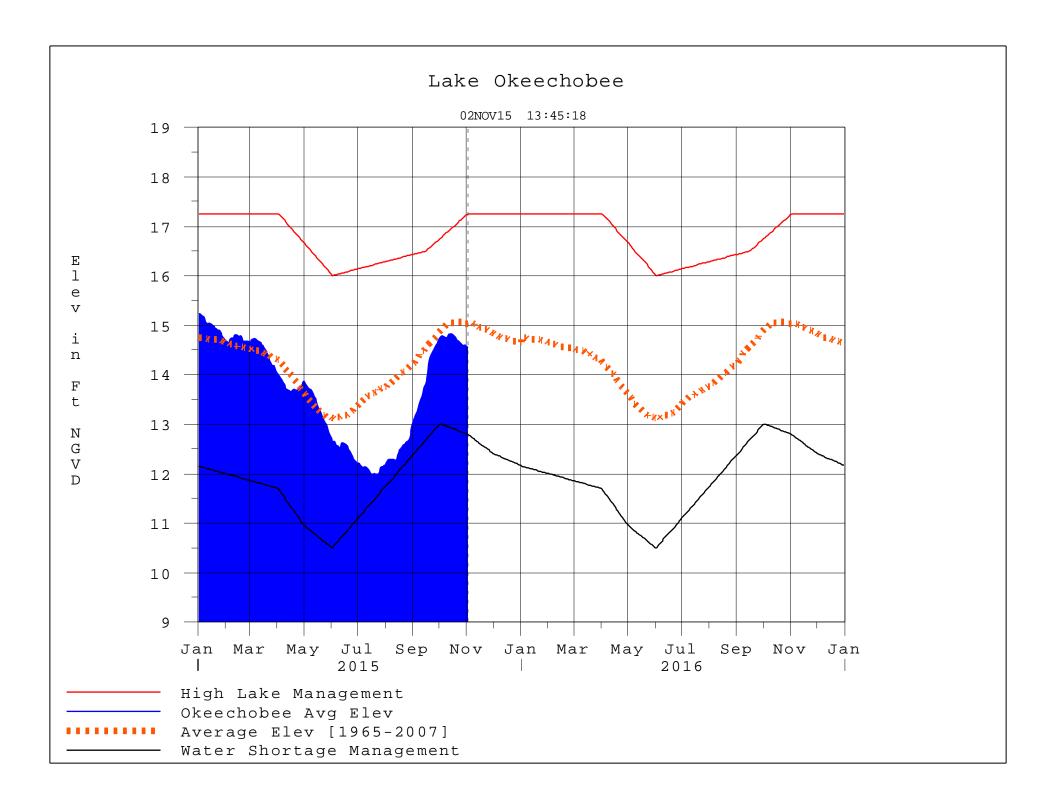
\* On 11 May 1999, Lake Okeechobee Elevation was switched from Instantaneous 2400 value to an average-daily lake average.

On 14 Mar 2001, due to the isolation of various gages within the standard

- 10 stations, the average of the interior 4 station gages was used as the Lake Okeechobee Elevation.
- On 05 November 2010, Lake Okeechobee Elevation was switched to a 9 gage mix of interior and edge gages to obtain a more reliable representation of the lake level.
- On 09 May 2011, Lake Okeechobee Elevation was switched to a 8 gage mix of interior and edge gages to obtain a more reliable representation of the lake level due to isolation of S135 from low lake levels.
- Today Lake Okechobee elevation is determined from the 4 Int & 4 Edge stations
  - ++ For more information see the Jacksonville District Navigation website at http://www.saj.usace.army.mil/
- \$ For information regarding Lake Okeechobee Service Area water restrictions

please refer to www.sfwmd.gov

Report Generated 02NOV2015 @ 13:38 \*\* Preliminary Data - Subject to Revision



### **Classification Tables**

Supplemental Tables used in conjunction with the LORS2008

Release

**Guidance Flow Charts** 

• Class Limits for Tributary Hydrologic Conditions

Table K-2 in the Lake Okeechobee Water Control Plan

• 6-15 Day Precipitation Outlook Categories

Table ?? in the Lake Okeechobee Water Control Plan

• Classification of Lake Okeechobee Net Inflow for Seasonal

### Outlook

Table K-3 in the Lake Okeechobee Water Control Plan

Classification of Lake Okeechobee Net Inflow for Multi-

### Seasonal Outlook

Table K-4 in the Lake Okeechobee Water Control Plan

### **Back to Lake Okeechobee Operations Main Page**

Back to U.S. Army Corps of Engineers Lake Okeechobee Operations Homepage

| Tributary Hydrologic | Palmer Index   | 2-wk Mean L.O. Net  |
|----------------------|----------------|---------------------|
| Classification*      | Class Limits   | Inflow Class Limits |
| Very Wet             | 3.0 or greater | Greater >= 6000 cfs |
| Wet                  | 1.5 to 2.99    | 2500 - 5999 cfs     |
| Near Normal          | -1.49 to 1.49  | 500 - 2499 cfs      |
| Dry                  | -2.99 to -1.5  | -5000 – 500 cfs     |
| Very Dry             | -3.0 or less   | Less than -5000 cfs |

<sup>\*</sup> use the wettest of the two indicators

### Classification of Lake Okeechobee Net Inflow Seasonal Outlook\*

| Lake Net Inflow<br>Prediction | Equivalent<br>Depth** | Lake Okeechobee  |
|-------------------------------|-----------------------|------------------|
| [million acre-feet]           | [feet]                | Net Inflow       |
| [                             | [1000]                | Seasonal Outlook |
| > 0.93                        | > 2.0                 | Very Wet         |
| 0.71 to 0.93                  | 1.51 to 2.0           | Wet              |
| 0.35 to 0.70                  | 0.75 to 1.5           | Normal           |
| < 0.35                        | < 0.75                | Dry              |

<sup>\*\*</sup>Volume-depth conversion based on average lake surface area of 467,000 acres

### Classification of Lake Okeechobee Net Inflow Multi-Seasonal Outlook\*

| Lake Net Inflow<br>Prediction | Equivalent<br>Depth** | Lake Okeechobee        |
|-------------------------------|-----------------------|------------------------|
| [million acre-feet]           | [feet]                | Net Inflow             |
|                               |                       | Multi-Seasonal Outlook |
| > 2.0                         | > 4.3                 | Very Wet               |
| 1.18 to 2.0                   | 2.51 to 4.3           | Wet                    |
| 0.5 to 1.17                   | 1.1 to 2.5            | Normal                 |
| < 0.5                         | < 1.1                 | Dry                    |

<sup>\*\*</sup>Volume-depth conversion based on average lake surface area of 467,000 acres

## 6-15 Day Precipitation Outlook Categories\*

| 6-15 Day Precipitation Outlook<br>Categories | WSE Decision Tree<br>Categories |
|--|---------------------------------|
| Above Normal                                 | Wet to Very Wet                 |
| Normal                                       | Normal                          |
| Below Normal                                 | Dry                             |

<sup>\*</sup> Corresponds to Table 7-6 in the Lake Okeechobee Water Control Plan

**Under Construction**