# Application of the Lake Okeechobee Regulation Schedule (LORS2008) on 10/21/2019 (ENSO Neutral 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 Neutral years<sup>3</sup> and a sub-sampling of warm years of the Atlantic Multi-decadal Oscillation (AMO) in combination with La Nina ENSO 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> |           | Empirical Neutral E |           | oirical Neutral ENSO Thod <sup>2</sup> Years <sup>3</sup> AMO |           | ampling of<br>Warm +<br>al ENSO<br>ears <sup>4</sup> |
|--------------------------------|---------------|--------------------------------|---|-----------|---------------------|-----------|---|-----------|--|
|                                | Value<br>(ft) | Condition                      | Value<br>(ft)                             | Condition | Value<br>(ft)       | Condition | Value<br>(ft)   | Condition |  |
| Current<br>(Oct-<br>Mar)       | N/A           | N/A                            | 0.75                                      | Dry       | 1.03                | Normal    | 2.18  | Very Wet  |  |
| Multi<br>Seasonal<br>(Oct-Apr) | N/A           | N/A                            | 0.68                                      | Dry       | 0.99                | Dry       | 2.28  | Normal    |  |

<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.

\*\*Sub-sampling is a weighted average of ENSO conditions based on the ENSO forecast used.

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

**2101 cfs** 14-day running average for Lake Okeechobee Net Inflow through 10/20/2019. According to the classification in <u>Tributary Hydrologic Conditions</u> table, this condition is Normal.

**-1.37** for Palmer Index on 10/19/2019.

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 10/21/2019

Lake Okeechobee Stage: 13.50 feet

**USACE** Report for Lake Okeechobee

Lake Okeechobee Stage Hydrograph

| Lake Okeechobee Management<br>Zone/Band |                       | Bottom Elevation (feet, NGVD) | Current Lake<br>Stage |
|---|-----------------------|-------------------------------|-----------------------|
| High Lake Management Band               |                       | 17.06                         |                       |
|   | High sub-band         | 16.69                         |                       |
| Operational<br>Band                     | Intermediate sub-band | 16.12                         |                       |
|   | Low sub-band          | 14.50                         |                       |
| Base Flow sub-band                      |                       | 12.92                         | ← 13.50               |
| Beneficial Use sub-band                 |                       | 12.87                         |                       |
| Water Shortage M                        | lanagement Band       |                               |                       |

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

Release Guidance Flow Chart Outcome: No releases to WCAs.

#### Part D of LORS2008: Discharge to Tidewater

Release Guidance Flow Chart Outcome: S-79 Up to 450 cfs & S-80 Up to 200 cfs.

#### Adaptive Protocol's Release Guidance: Caloosahatchee Estuary

Release Guidance Flow Chart Outcome: S-79 Up to 450 cfs & S-77 baseflow release to supplement as needed.

**Back to Lake Okeechobee Operations Main Page** 

**Back to U.S. Army Corps of Engineers LORSS Homepage** 

#### LORS2008 Implementation on 10/21/2019 (ENSO Neutral Condition):

#### Status for week ending 10/21/2019:

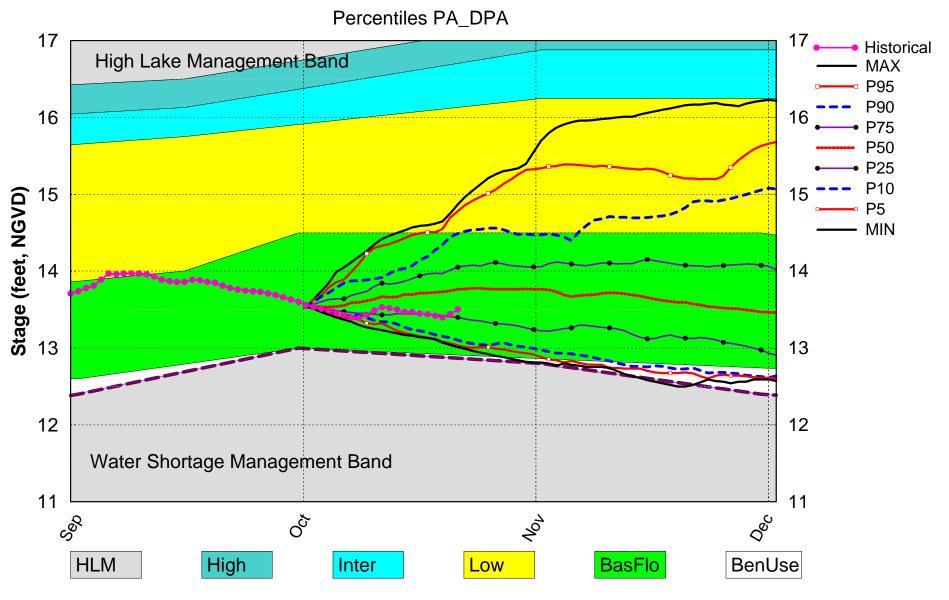
District wide, Raindar rainfall was 1.16 inches for the week. Lake stage on 10/21/2019 was 13.50 ft, NGVD, up 0.03 ft from last week .The updated October 2019 SFWMM Dynamic Position Analysis percentile graph for Lake Okeechobee show that the current lake stage is in the Base-Flow Sub-Band. The LORS2008 Tributary Hydrologic Conditions (THC) are classified as **Normal**. The PDI indicates Normal conditions and the LONIN is Near Normal. The THC classification is based on the wetter of the two indices.

**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                 | -1.37<br>(Dry)                       | M                             |
|      | CDC Presinitation Outlank                                 | 1 month: Normal                      | Ш                             |
| LOK  | CPC Precipitation Outlook                                 | 3 months: Normal                     | П                             |
|      | LOK Seasonal Net Inflow Outlook ENSO Forecast (positive)  | 1.03 ft<br>(Dry)                     | M                             |
|      | LOK Multi-Seasonal Net Inflow<br>Outlook                  | 0.99 ft (Dry)                        | Н                             |
|      | ENSO Forecast (positive)                                  |                                      |                               |
|      | WCA 1: 3 Station Average (Site 1-7, Site 1-8T & Site 1-9) | Above Line 1 (16.56 ft)              | L                             |
| WCAs | WCA 2A: Site 2-17 HW                                      | Above Line 1 (12.96 ft)              | L                             |
|      | WCA-3A: 3 Station Average (Site 63, 64, and 65)           | Above Line 1 (10.14 ft)              | L                             |
|      | Service Area 1  | Year-Round Irrigation Rule in effect | اد                            |
| LEC  | Service Area 2  | Year-Round Irrigation Rule in effect | L                             |
|      | Service Area 3  | Year-Round Irrigation Rule in effect | L                             |

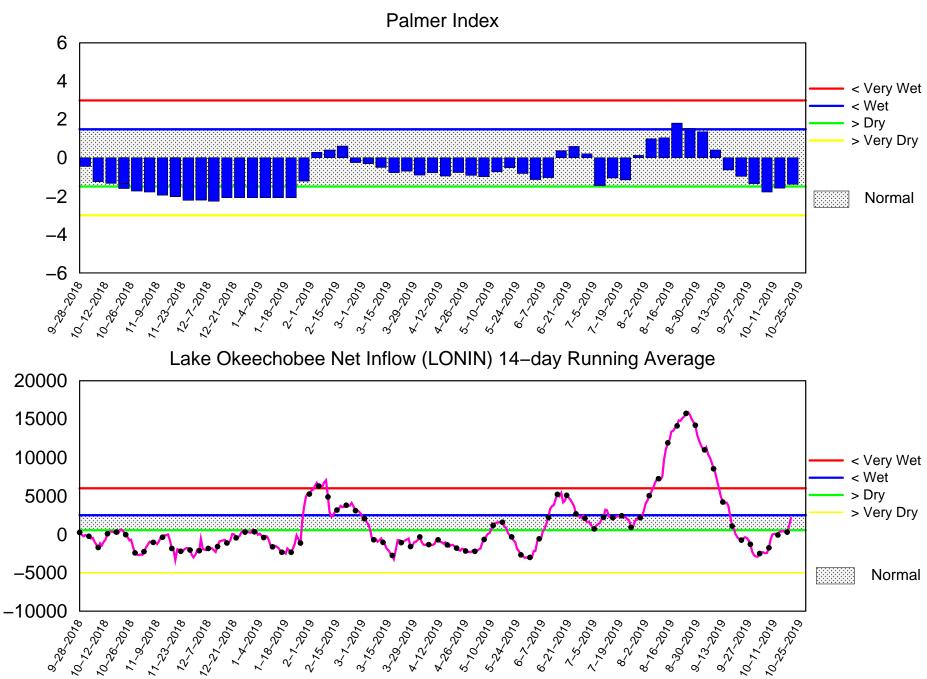
Note: The water supply risk classification based on the Palmer index, as well as the LOK seasonal and multi-seasonal net inflow outlooks use slightly different classification intervals than those used by the 2008-LORS.

# Lake Okeechobee SFWMM Oct 2019 Position Analysis



(See assumptions on the Position Analysis Results website)

# Tributary Basin Condition Indicators as of October 21 2019

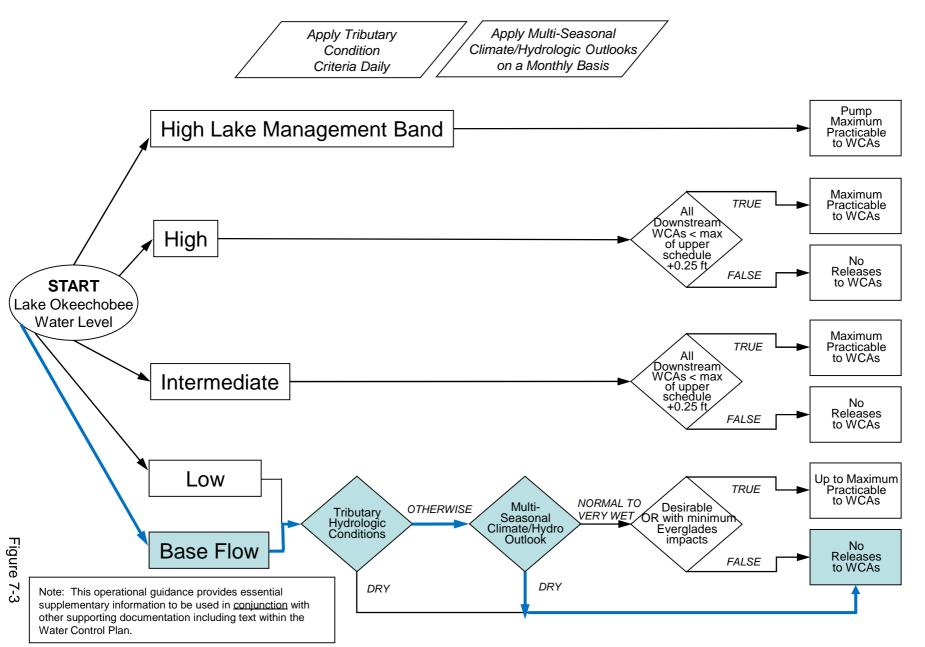


Tue Oct 22 08:58:33 EDT 2019

Flow (cfs)

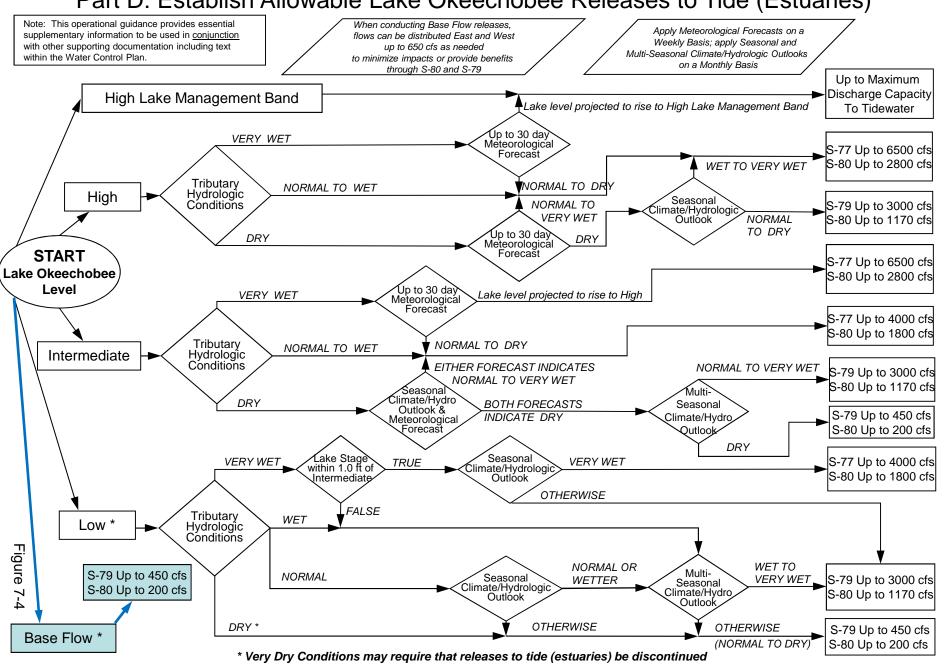
### **2008 LORS**

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

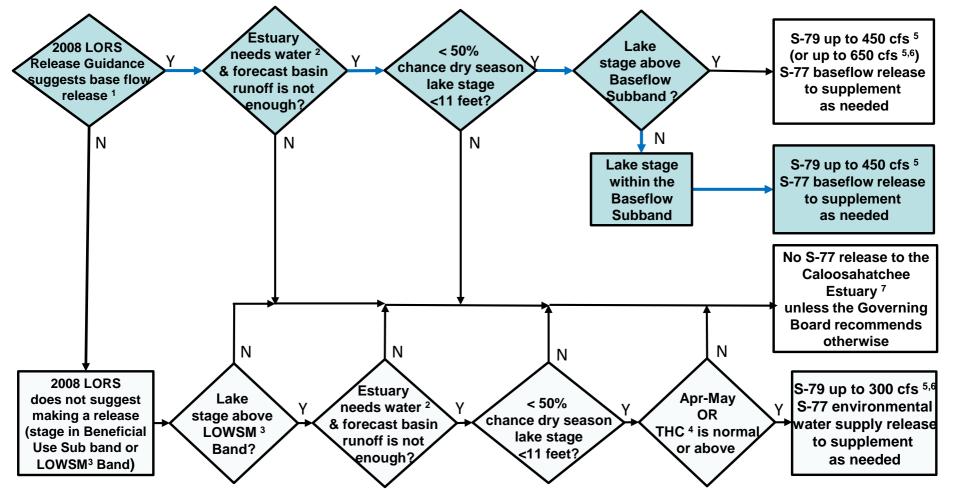


#### **2008 LORS**

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



# Flowchart to Guide Recommendations for Lake Okeechobee Releases to the Caloosahatchee Estuary for 2008 LORS Baseflow & for Environmental Water Supply (revised 9-Aug-2012)



<sup>&</sup>lt;sup>1</sup>The 2008 LORS Release Guidance (Part D) can suggest baseflow releases in the Intermediate, Low, or Baseflow Subbands.

<sup>&</sup>lt;sup>2</sup>Estuary "needs" water when the 30-day moving average salinity at I-75 bridge is projected to exceed 5 practical salinity units (psu) within 2 weeks.

<sup>&</sup>lt;sup>3</sup>LOWSM = Lake Okeechobee Water Shortage Management.

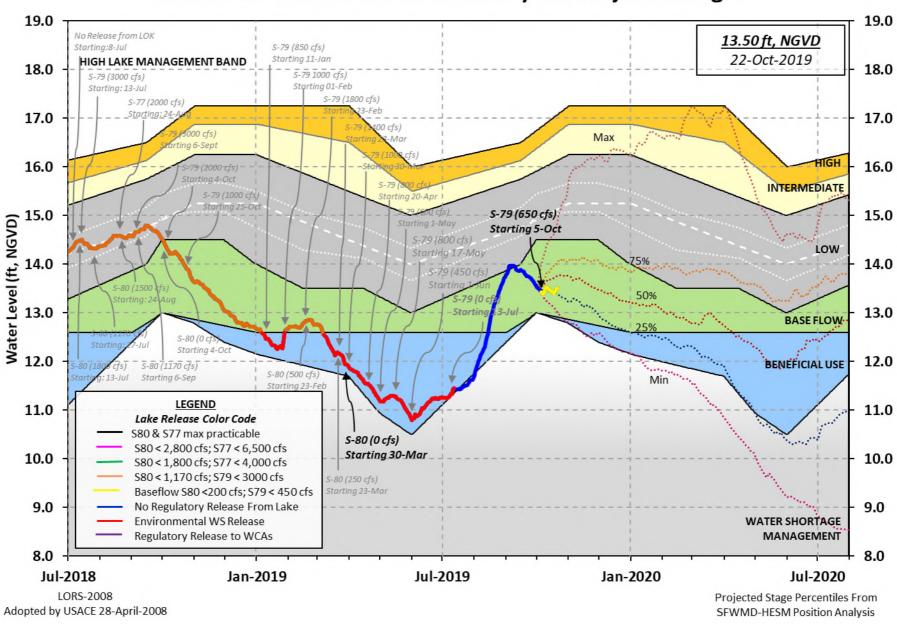
<sup>&</sup>lt;sup>4</sup>Tributary Hydrologic Condition (THC) is based on classification of Lake Okeechobee Net Inflow and Palmer Index.

<sup>&</sup>lt;sup>5</sup>Can release less than the "up to" limit if lower release is sufficient to reach or sustain desired estuary salinity; cfs = cubic feet per second.

<sup>&</sup>lt;sup>6</sup>After reviewing conditions in Water Conservation Areas (WCAs), Stormwater Treatment Areas (STAs), ENP, St. Lucie Estuary and Lake Okeechobee.

<sup>&</sup>lt;sup>7</sup>Should this condition be reached, the Governing Board will be briefed at their next regularly scheduled meeting as part of the State of the Water Resources agenda item.

#### **Lake Okeechobee Water Level History and Projected Stages**



#### 

Data Ending 2400 hours 21 OCT 2019

| Okeechobee Lake                  | Regulation        |                             |                | Year 2YRS Ago<br>GVD) (ft-NGVD)     |                  |
|----------------------------------|-------------------|-----------------------------|----------------|-------------------------------------|------------------|
|                                  | ı Lake Mngı       |                             | of Water S     | 03 -NR- (Off:<br>Short Mngmt= 12.8' | icial Elv)<br>7  |
| Simulated Aver<br>Difference fro |                   | 008 [1965-2000]<br>LORS2008 | 14.01<br>-0.51 |                                     |                  |
| 210CT (1965-20<br>Difference fro |                   | d of Record Ave:<br>rage    |                | 5.06<br>56                          |                  |
| Today Lake Oke<br>stations       | eechobee e        | levation is dete            | ermined fr     | com the 4 Int & 4                   | Edge             |
|                                  | epth (Base        | ed on 2007 Chani            | nel Condit     | tion Survey) Route                  | e 1 ÷            |
| 7.44'                            | onth (Pag         | od on 2008 Chan             | ool Condit     | zion Survey) Route                  | o 2 ÷            |
| 5.64'                            | eptii (bas        | ed on 2006 Chain            | nei conait     | .1011 Survey) Rouce                 | e 2 <del>-</del> |
| Bridge Clearan                   | 100 = 49.5        | 3 '                         |                |                                     |                  |
|                                  |                   |                             |                |                                     |                  |
| _                                |                   |                             |                |                                     |                  |
| 4 Interior and 4                 | Edge Oke          | echobee Lake Ave            | erage (Avg     | g-Daily values):                    |                  |
| L001 L005                        | L006 LZ           | 40 S4 S35:                  | 2 S308         | S133                                |                  |
| 13.49 13.52                      | 13.49 13          | .48 13.48 13.0              | 62 13.45       | 5 13.46                             |                  |
|                                  |                   |                             |                |                                     |                  |
| *Combination Ok                  | eechobee          | Avg-Daily Lake              | Average =      |                                     |                  |
|                                  |                   |                             |                | (*See Note)                         |                  |
|                                  |                   |                             |                |                                     |                  |
|                                  | , 5               |                             |                |                                     |                  |
| Okeechobee Inflo                 | ows (cis):<br>207 | S65EX1                      | 206            | Fisheating Cr                       | 25               |
| S154                             | 0                 | S191                        | 0              | S135 Pumps                          | 0                |
| S84                              | 39                | S133 Pumps                  | 0              | S2 Pumps                            | 0                |
| S84X                             | 0                 | S127 Pumps                  | 0              | S3 Pumps                            | 0                |
| S71                              | 127               | S129 Pumps                  | 0              | S4 Pumps                            | 0                |
| S72                              | 3<br>608          | S131 Pumps                  | 0              | C5                                  | 0                |
| Total Inflows:                   | 000               |                             |                |                                     |                  |
| Okeechobee Outfl                 |                   | :                           |                |                                     |                  |
| S135 Culverts                    | 0                 | S354                        | 0              | S77                                 | 1                |
| S127 Culverts                    | -13               | S351                        | 0              | S308                                | -1               |
| S129 Culverts<br>S131 Culverts   | 0<br>0            | S352<br>L8 Canal Pt         | 0<br>46        |                                     |                  |
| Total Outflows:                  | 33                | no canar re                 | ±0             |                                     |                  |
|                                  |                   |                             |                |                                     |                  |

\*\*\*\*S77 structure flow is being used to compute Total Outflow. \*\*\*\*S308 structure flow is being used to compute Total Outflow. Okeechobee Pan Evaporation (inches): S77 0.24 S308 -NR-Average Pan Evap x 0.75 Pan Coefficient = -NR-" = -NR-' Lake Average Precipitation using NEXRAD: = -NR-" = -NR-' = -NR-" = -NR-"Evaporation - Precipitation: Evaporation - Precipitation using Lake Area of 730 square miles is equal to -NR-Lake Okeechobee (Change in Storage) Flow is 0 cfs or 0 AC-FT Headwater Tailwater ----- Gate Positions -----Elevation Elevation Disch #1 #2 #3 #4 #5 #6 #7 #8 (ft-msl) (ft-msl) (cfs) (ft) (ft) (ft) (ft) (ft) (ft) (ft) (I) see note at bottom North East Shore 0 0 0 0 0 (cfs) S133 Pumps: 13.42 13.51 S193: 0.0 0.0 0.0 16.74 13.49 S191: 0 S135 Pumps: 13.27 13.44 0 0 0 0 0 (cfs) S135 Culverts: 0.0 0.0 North West Shore 207 S65E: 21.16 13.67 0.0 0.0 0.0 0.5 -0.0 0.0 21.16 S65EX1: 13.67 206 S127 Pumps: 13.29 13.44 0 0 0 0 0 (cfs) 0 S127 Culvert: -13 2.6 0 S129 Pumps: 12.87 13.47 0 0 0 (cfs) 0.0 S129 Culvert: 0

| Fisheat    | ing Creek |             |    |      |       |
|------------|-----------|-------------|----|------|-------|
| nr Pa      | lmdale    | 29.15       | 25 |      |       |
| nr Lal     | keport    | - <u></u> - |    |      |       |
| C5:        |           | -NR-        | 0  | -NRN | IRNR- |
|            |           |             |    |      |       |
| South Shor | re        |             |    |      |       |

13.52

S131 Pumps: 12.73

S131 Culvert:

S4 Pumps: 13.03 13.55 0 0 0 0 (cfs) S169: 13.57 13.03 0 0.0 0.0 0.0 S310: 13.42 -10

0

0

0 0

(cfs)

```
S3 Pumps: 9.22 13.54 0 0 0 0 0 (cfs)
S354: 13.54 9.22 0 0.0 0.0
S2 Pumps: 10.02 -NR- 0 0 0 0 0 0 (cfs)
S351: -NR- 10.02 0 0.0 0.0
S352: 13.65 10.13 0 0.0 0.0
C10A: -NR- 13.69 8.0 8.0 8.0 0.0 0.0
                       13.49 46
  L8 Canal PT
                  S351 and S352 Temporary Pumps/S354 Spillway
                      -NR- 0 -NR--NR--NR--NR--NR-
13.65 0 -NR--NR--NR-
13.54 0 -NR--NR--NR-
             10.02
  S351:
  S352:
             10.13
  S354:
              9.22
Caloosahatchee River (S77, S78, S79)
12 15 11.40 1.0 1.5
  S47D:
              11.28
                       11.28 -6 6.0
  S77:
    Spillway and Sector Preferred Flow:
              13.31 11.15 0 0.0 0.0 0.0 0.0
                                   1
   Flow Due to Lockages+:
  S78:
    Spillway and Sector Flow:
             11.17 3.11 1208 1.0 0.0 0.0 2.0
                                  7
  Flow Due to Lockages+:
  S79:
    Spillway and Sector Flow:
             3.26 2.21 1490 0.0 1.0 1.0 1.0 1.0 0.0
0.0
    Flow Due to Lockages+:
              flow from S77 0 (ppm) 0
    Percent of flow from S77
                                   0 %
    Chloride
St. Lucie Canal (S308, S80)
  S308:
    Spillway and Sector Preferred Flow:
              13.46 13.97 0 0.0 0.0 0.0 0.0
                                   -1
   Flow Due to Lockages+:
        18.87 13.88 0 0.0 0.0
  S153:
  S80:
    Spillway and Sector Flow:
   14.11 0.45 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Flow Due to Lockages+: -NR-
   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.
- ++ Preferred flow is determined from either the spillway discharge or the below flow meter daily

---- Wind ---Daily Precipitation Totals 1-Day 3-Day 7-Day Direction Speed (inches) (inches) (inches) (Degø) (mph) S133 Pump Station: -NR-0.00 0.00 S193: -NR-0.00 0.00 -NR--NR-Okeechobee Field Station: -NR-0.00 0.00 S135 Pump Station: -NR-0.00 0.00 S127 Pump Station: -NR-0.00 0.00 S129 Pump Station: -NR-0.00 0.00 0.00 0.00 S131 Pump Station: -NR-S77: 0.00 0.56 0.89 251 S78: 0.00 0.40 0.84 5 1 S79: 1.29 1.80 144 0.00 1 0.00 S4 Pump Station: 0.00 -NR-Clewiston Field Station: 0.00 0.00 -NR-0.00 S3 Pump Station: -NR-0.00 S2 Pump Station: -NR-0.00 0.00 S308: 0.00 1.51 1.52 115 1.66 S80: 0.00 1.66 195 1 0.16 Okeechobee Average 0.00 0.19 (Sites S78, S79 and S80 not included) \_\_\_\_\_\_ 1.10 Oke Nexrad Basin Avg -NR-\_\_\_\_\_\_

| _<br>Okeechobee Lake Elevations | 21 OCT 2019 | 13.50 Difference | e from |
|---------------------------------|-------------|------------------|--------|
| 210CT19                         |             |                  |        |
| 210CT19 - 1 Day =               | 20 OCT 2019 | 13.50            | 0.00   |
| 210CT19 - 2 Days =              | 19 OCT 2019 | 13.44            | -0.06  |
| 210CT19 -3 Days =               | 18 OCT 2019 | 13.40            | -0.10  |
| 210CT19 -4 Days =               | 17 OCT 2019 | 13.42            | -0.08  |
| 210CT19 -5 Days =               | 16 OCT 2019 | 13.44            | -0.06  |
| 210CT19 -6 Days =               | 15 OCT 2019 | 13.45            | -0.05  |
| 210CT19 -7 Days =               | 14 OCT 2019 | 13.47            | -0.03  |
| 210CT19 -30 Days =              | 21 SEP 2019 | 13.76            | 0.26   |
| 210CT19 -1 Year =               | 21 OCT 2018 | 14.03            | 0.53   |
| 210CT19 -2 Year =               | 21 OCT 2017 | -NR-             | -NR-   |

Long Term Mean 30day Avearge ET for Lake Alfred (Inches) = 3.54

| 210CT19 Today =     | 21 OCT 2019          | 2086 TUE       | 46             |
|---------------------|----------------------|----------------|----------------|
| 210CT19 -1 Day =    | 20 OCT 2019          | 2101 MON       | 12435          |
| 210CT19 -2 Days =   | 19 OCT 2019          | 1042 SUN       | 8469           |
| 210CT19 -3 Days =   | 18 OCT 2019          | 255 SAT        | -3173          |
| <b>-</b>            |                      |                | -2885          |
| 210CT19 -4 Days =   | 17 OCT 2019          |                |                |
| 210CT19 -5 Days =   | 16 OCT 2019          | 401 THU        | -810           |
| 210CT19 -6 Days =   | 15 OCT 2019          | 363 WED        | -3093          |
| 210CT19 - 7 Days =  | 14 OCT 2019          | 335 TUE        | 192            |
| 210CT19 - 8 Days =  | 13 OCT 2019          | -101 MON       | -5910          |
| 210CT19 - 9 Days =  | 12 OCT 2019          | 41 SUN         | -4066          |
| 210CT19 - 10 Days = | 11 OCT 2019          | 71 SAT         | -2069          |
| 210CT19 - 11 Days = | 10 OCT 2019          | -35 FRI        | 8442           |
| 210CT19 -12 Days =  | 09 OCT 2019          | -728 THU       | 12593          |
| 210CT19 -13 Days =  | 08 OCT 2019          | -1752 WED      | 9035           |
| 2100119 13 2075     | 00 001 2019          | 1732 1125      | 3033           |
|                     |                      |                |                |
|                     |                      |                |                |
| _                   |                      |                |                |
|                     | S65E                 |                |                |
|                     | Average Flow over pr | - :            | Avg-Daily Flow |
| 210CT19 Today=      | 21 OCT 2019          | 249 TUE        | 237            |
| 210CT19 - 1 Day =   | 20 OCT 2019          | 257 MON        | 236            |
| 210CT19 - 2 Days =  | 19 OCT 2019          | 268 SUN        | 235            |
| 210CT19 - 3 Days =  | 18 OCT 2019          | 268 SAT        | 235            |
| 210CT19 - 4 Days =  | 17 OCT 2019          | 281 FRI        | 267            |
| 210CT19 -5 Days =   | 16 OCT 2019          | 286 THU        | 231            |
| 210CT19 -6 Days =   | 15 OCT 2019          | 286 WED        | 231            |
| 210CT19 -7 Days =   | 14 OCT 2019          | 302 TUE        | 135            |
| 210CT19 -8 Days =   | 13 OCT 2019          | 324 MON        | 339            |
| 210CT19 -9 Days =   | 12 OCT 2019          | 320 SUN        | 101            |
| 210CT19 -10 Days =  | 11 OCT 2019          | 337 SAT        | 132            |
| <del>-</del>        | 10 OCT 2019          | 351 FRI        | 273            |
| 210CT19 -11 Days =  |                      |                |                |
| 210CT19 -12 Days =  | 09 OCT 2019          | 392 THU        | 407            |
| 210CT19 -13 Days =  | 08 OCT 2019          | 443 WED        | 425            |
|                     |                      |                |                |
|                     |                      |                |                |
| _                   |                      |                |                |
|                     | S65EX1               |                |                |
|                     | Average Flow over pr | evious 14 days | Avg-Daily Flow |
| 210CT19 Today=      | 21 OCT 2019          | 179 TUE        | 206            |
| 210CT19 - 1 Day =   | 20 OCT 2019          | 172 MON        | 206            |
| 210CT19 -2 Days =   | 19 OCT 2019          | 166 SUN        | 204            |
| 210CT19 -3 Days =   | 18 OCT 2019          | 161 SAT        | 110            |
| 210CT19 -4 Days =   | 17 OCT 2019          | 162 FRI        | 136            |
| 210CT19 -5 Days =   | 16 OCT 2019          | 162 THU        | 161            |
| 210CT19 -6 Days =   | 15 OCT 2019          | 160 WED        | 128            |
| <del>-</del>        | 14 OCT 2019          |                | •              |
| <del>-</del>        |                      |                | 252            |
| 210CT19 -8 Days =   | 13 OCT 2019          | 154 MON        | 175            |
| 210CT19 -9 Days =   | 12 OCT 2019          | 162 SUN        | 268            |
| 210CT19 -10 Days =  | 11 OCT 2019          | 179 SAT        | 271            |
| 210CT19 -11 Days =  | 10 OCT 2019          | 189 FRI        | 136            |
| 210CT19 -12 Days =  | 09 OCT 2019          | 207 THU        | 33             |
| 210CT19 -13 Days =  | 08 OCT 2019          | 244 WED        | 217            |
|                     |                      |                |                |

| DATE 21 OCT 2019 20 OCT 2019 19 OCT 2019 18 OCT 2019 16 OCT 2019 15 OCT 2019 14 OCT 2019 13 OCT 2019 12 OCT 2019 11 OCT 2019 10 OCT 2019 00 OCT 2019 08 OCT 2019  | (ALL DAY) (AC-FT) 3 3 275 1112 1200 959 319 172 454 312 6 3 177         | _   | S-78 Discharge (ALL DAY) (AC-FT) 2398 1565 382 366 360 238 306 640 1110 1643 779 696 1518                                  | S-79<br>Discharge<br>(ALL DAY)<br>(AC-FT)<br>2927<br>4302<br>661<br>259<br>757<br>482<br>782<br>1682<br>1578<br>1941<br>2109<br>1072<br>1590<br>1297 |  |
|---|---|---|--|--|--|
| DATE  21 OCT 2019 20 OCT 2019 19 OCT 2019 18 OCT 2019 16 OCT 2019 15 OCT 2019 14 OCT 2019 13 OCT 2019 12 OCT 2019 11 OCT 2019 10 OCT 2019 00 OCT 2019 08 OCT 2019 | -102<br>10<br>126<br>353<br>113<br>103<br>10<br>-24<br>8<br>-37<br>-110 |   | S-352 Discharge (ALL DAY) (AC-FT)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0   | S-354 Discharge (ALL DAY) (AC-FT) 0 0 0 365 702 980 875 0 0 0 0 0  | L8 Canal Pt Discharge (ALL DAY) (AC-FT) 91 64 97 232 212 126 86 206 120 43 96 45 204 222 |
| DATE  21 OCT 2019 20 OCT 2019 19 OCT 2019 18 OCT 2019 16 OCT 2019 15 OCT 2019 14 OCT 2019 13 OCT 2019 14 OCT 2019 10 OCT 2019 10 OCT 2019 09 OCT 2019 08 OCT 2019 | -0<br>0<br>0<br>0<br>0<br>-1<br>-1<br>-2<br>-2<br>-1<br>-0              | Below S-308 Discharge (ALL-DAY) (AC-FT) -588 -198 -193 -60 -435 -80 -45 135 -61 -47 16 117 -106 | S-80<br>Discharge<br>(ALL-DAY)<br>(AC-FT)<br>-NR-<br>19<br>11<br>34<br>31<br>3<br>20<br>27<br>-NR-<br>20<br>20<br>23<br>27 |  |  |

\*\*\* NOTE: Discharge (ALL DAY) is computed using Spillway, Sector Gate and

Lockages Discharges from 0015 hrs to 2400 hrs.

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(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/

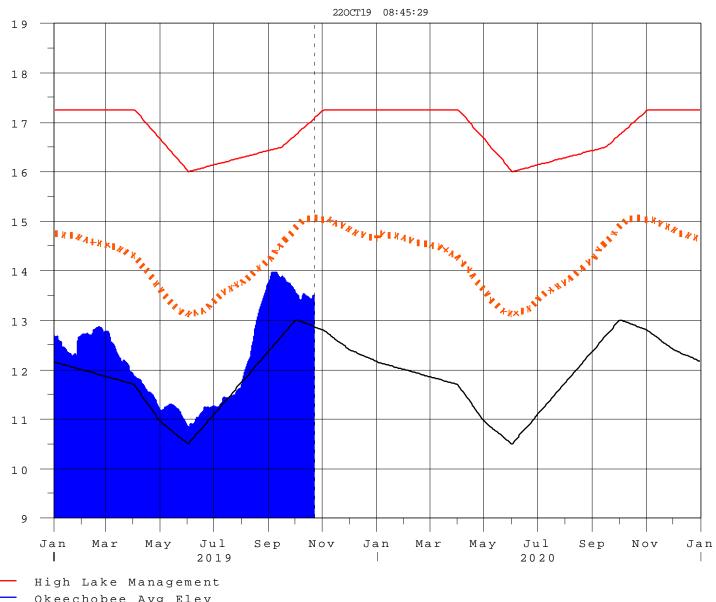
\$ For information regarding Lake Okeechobee Service Area water restrictions

please refer to www.sfwmd.gov

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Report Generated 220CT2019 @ 08:45 \*\* Preliminary Data - Subject to Revision \*\*





Okeechobee Avg Elev
Average Elev [1965-2007]
Water Shortage Management

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# **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       |
|                               | 20003                 | 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**