Application of the Lake Okeechobee Regulation Schedule (LORS2008) on 11/11/2019 (ENSO Neutral Condition)

Lake Okeechobee Net Inflow Outlook:

The Lake Okeechobee Net Inflow Outlook has been computed using 4 methods: Croley's method¹, the SFWMD empirical method², a sub-sampling of Neutral years³ and a sub-sampling of warm years of the Atlantic Multi-decadal Oscillation (AMO) in combination with La Nina ENSO years⁴. The results for Croley's method and the SFWMD empirical method are based on the <u>CPC Outlook</u>.

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 | | oley's ethod ^{1*} | En | WMD npirical ethod ² | Neuti | ampling of al ENSO ears ³ | Sub-sampling of AMO Warm + Neutral ENSO Years ⁴ | | |
|------------------------------------|---------------|-------------------------------|---------------|---------------------------------------|---------------|--|---|-----------|--|
| | Value (ft) | Condition | Value (ft) | <u>Condition</u> | Value (ft) | <u>Condition</u> | Value (ft) | Condition | |
| Current (Nov- Apr) | N/A | N/A | 0.32 Dry | | 0.59 | Dry | 1.68 | Wet | |
| Multi Seasonal (Nov- Oct) | N/A | N/A | 2.98 | Wet | 3.29 | Wet | 5.62 | Very Wet | |

*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:

-1655 cfs 14-day running average for Lake Okeechobee Net Inflow through 11/10/2019. According to the classification in <u>Tributary Hydrologic Conditions</u> table, this condition is Dry.

-1.57 for Palmer Index on 11/9/2019.

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

The wetter of the two conditions above is Dry.

LORS2008 Classification Tables:

Lake Okeechobee Stage on 11/11/2019

Lake Okeechobee Stage: 13.33 feet

USACE Report for Lake Okeechobee

Lake Okeechobee Stage Hydrograph

| | ee Management /Band | Bottom Elevation (feet, NGVD) | Current Lake Stage |
|---------------------|--------------------------|----------------------------------|-----------------------|
| High Lake Manage | ement Band | 17.25 | |
| | High sub-band | 16.88 | |
| Operational Band | Intermediate sub-band | 16.25 | |
| | Low sub-band | 14.50 | |
| Base Flow sub-ba | nd | 12.82 | ← 13.33 |
| Beneficial Use sub | o-band | 12.67 | |
| Water Shortage M | lanagement Band | | |

Part C of LORS2008: Discharge to WCA's

NO releases to the 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 11/11/2019 (ENSO Neutral Condition):

Status for week ending 11/11/2019:

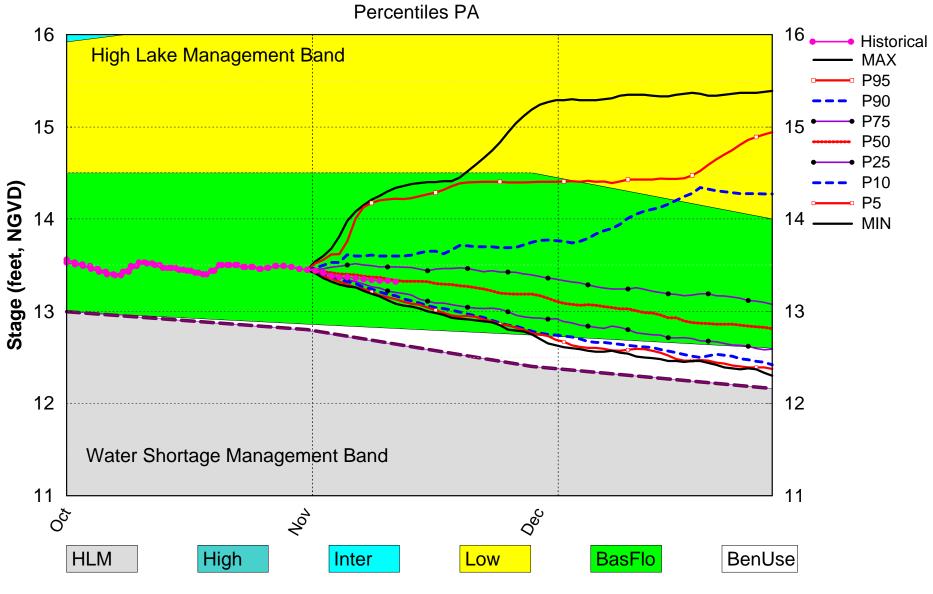
District wide, Raindar rainfall was 0.47 inches for the week. Lake stage on 11/11/2019 was 13.33 ft, NGVD, down 0.05 ft from last week .The updated November 2019 SFWMM Dynamic Position Analysis percentile graph for Lake Okeechobee show that the current lake stage is in the Base-Flow Sub-Band. The LORS2008 Tributary Hydrologic Conditions (THC) are classified as **Dry.** The PDI indicates Dry conditions and the LONIN is Dry. The THC classification is based on the wetter of the two indices.

| Area | Indicator | Value | Color Coded Scoring Scheme |
|------|--|---|-------------------------------|
| | Projected LOK Stage for the next two months | Base-Flow Sub-Band | М |
| | Palmer Index for LOK Tributary Conditions | -1.57 (Dry) | М |
| | CPC Presinitation Outlook | 1 month: Normal | L |
| LOK | CPC Precipitation Outlook | 3 months: Normal | L |
| | LOK Seasonal Net Inflow Outlook ENSO Forecast (positive) | 0.59 ft (Dry) | М |
| | LOK Multi-Seasonal Net Inflow Outlook | 3.29 ft (Wet) | L |
| | ENSO Forecast (positive) | (*****) | |
| | WCA 1: 3 Station Average (Site 1-7, Site 1-8T & Site 1-9) | Above Line 1 (16.70 ft) | L |
| WCAs | WCA 2A: Site 2-17 HW | Above Line 1 (12.75 ft) | L |
| | WCA-3A: 3 Station Average (Site 63, 64, and 65) | Above Line 1 (9.85 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 |

Water Supply Risk Evaluation

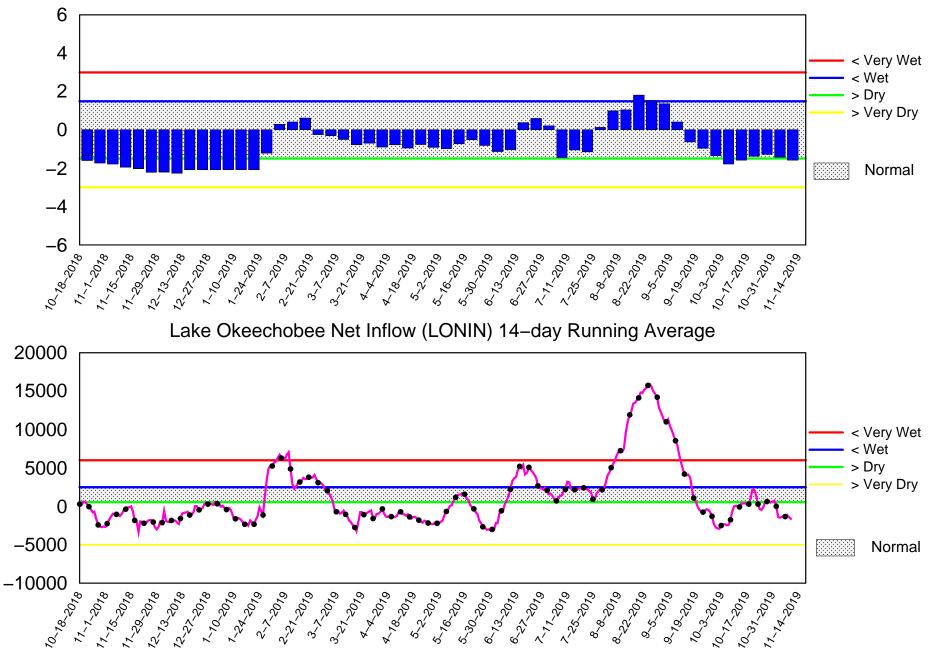
Note: The water supply risk classification based on the Palmer index, as well as the LOK seasonal and multi-seasonal net inflow outlooks use slightly different classification intervals than those used by the 2008-LORS.

Lake Okeechobee SFWMM Nov 2019 Position Analysis



(See assumptions on the Position Analysis Results website)

Tue Nov 12 08:29:55 EST 2019



Tributary Basin Condition Indicators as of November 11 2019

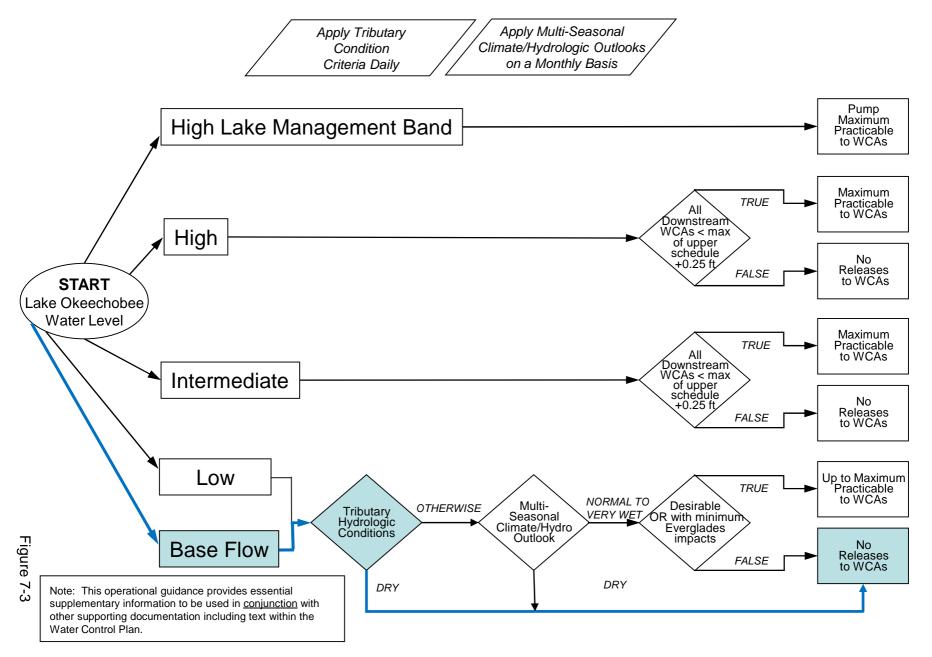
Palmer Index

Tue Nov 12 07:56:10 EST 2019

Flow (cfs)

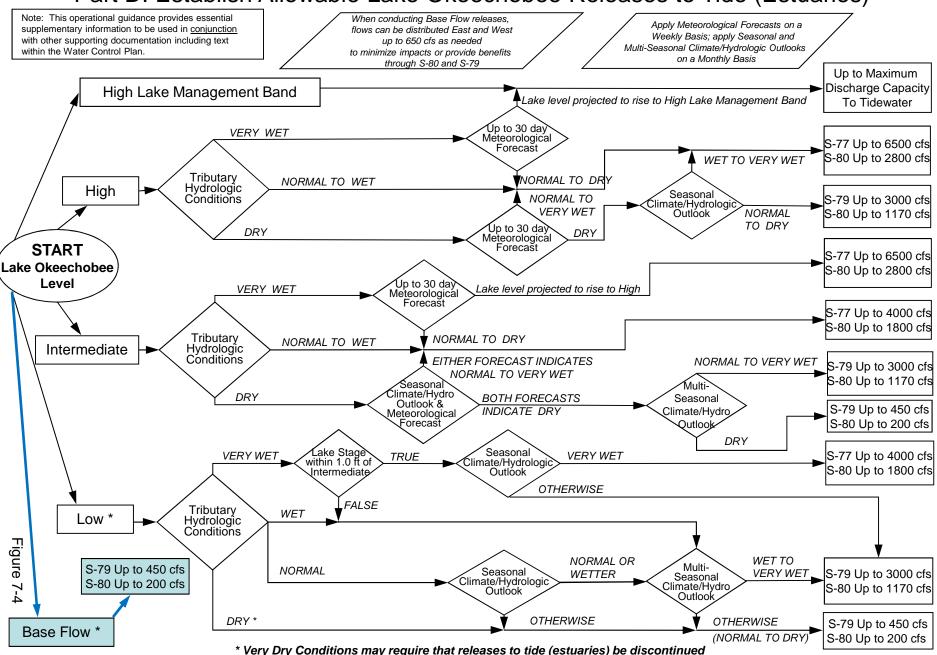
2008 LORS

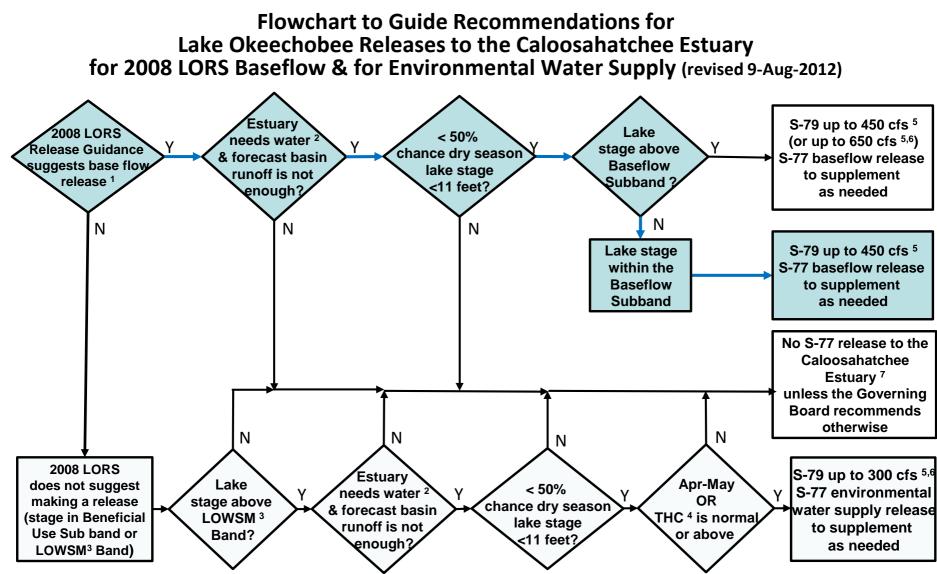
Part C: Establish Allowable Lake Okeechobee Releases to the Water Conservation Areas



2008 LORS

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





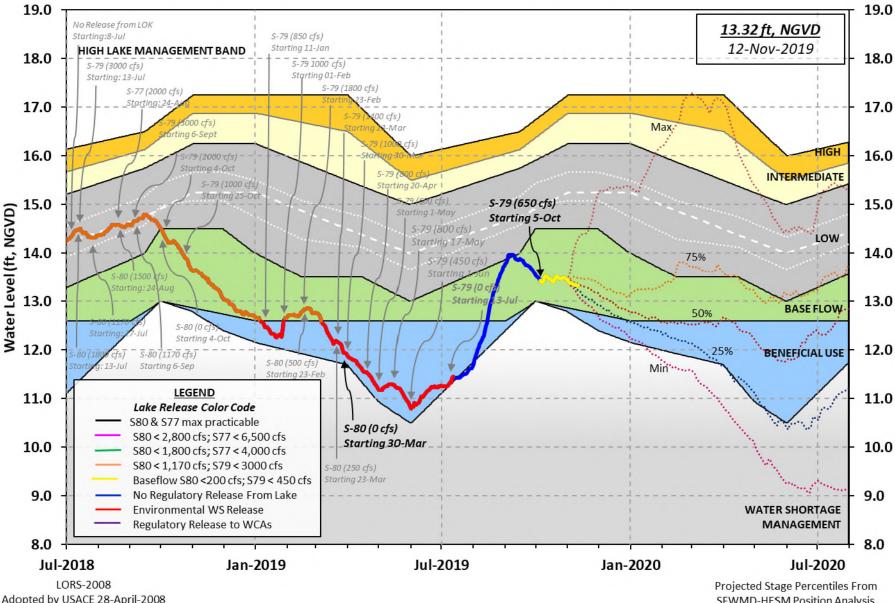
¹The 2008 LORS Release Guidance (Part D) can suggest baseflow releases in the Intermediate, Low, or Baseflow Subbands.

²Estuary "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. ³LOWSM = Lake Okeechobee Water Shortage Management.

⁴Tributary Hydrologic Condition (THC) is based on classification of Lake Okeechobee Net Inflow and Palmer Index.

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

⁶After reviewing conditions in Water Conservation Areas (WCAs), Stormwater Treatment Areas (STAs), ENP, St. Lucie Estuary and Lake Okeechobee. ⁷Should 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

Adopted by USACE 28-April-2008

SFWMD-HESM Position Analysis

U. S. Army Corps of Engineers, Jacksonville District Lake Okeechobee and Vicinity Report ** Preliminary Data - Subject to Revision ** Data Ending 2400 hours 11 NOV 2019 Okeechobee Lake Regulation Elevation Last Year 2YRS Ago (ft-NGVD) (ft-NGVD) (ft-NGVD) 13.32 *Okeechobee Lake Elevation 13.51 -NR- (Official Elv) Bottom of High Lake Mngmt= 17.25 Top of Water Short Mngmt= 12.65 Currently in Operational Management Band Simulated Average LORS2008 [1965-2000] 13.92 Difference from Average LORS2008 -0.60 11NOV (1965-2007) Period of Record Average 14.99 Difference from POR Average -1.67 Today Lake Okeechobee elevation is determined from the 4 Int & 4 Edge stations ++Navigation Depth (Based on 2007 Channel Condition Survey) Route 1 ÷ 7.26' ++Navigation Depth (Based on 2008 Channel Condition Survey) Route 2 \div 5.46' Bridge Clearance = 50.37' 4 Interior and 4 Edge Okeechobee Lake Average (Avg-Daily values): L001 L005 L006 LZ40 S4 S352 S308 S133 13.26 13.35 13.35 13.31 13.40 13.43 13.25 13.22 *Combination Okeechobee Avg-Daily Lake Average = 13.32 (*See Note) Okeechobee Inflows (cfs): 77 S65E 621 S65EX1 Fisheating Cr -NR-0 S135 Pumps 0 S154 0 S191 S133 Pumps 0 S84 0 S2 Pumps 0 0 0 0 S84X S127 Pumps S3 Pumps S71 0 S129 Pumps 0 S4 Pumps 0 S72 0 S131 Pumps 0 C5 0 Total Inflows: 698 Okeechobee Outflows (cfs): 0 S77 S135 Culverts 0 S354 863 0 S127 Culverts S351 0 S308 65 S129 Culverts 0 S352 0 S131 Culverts 0 Total Outflows: 863 L8 Canal Pt -65

```
****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 0.23 S308 0.21
Average Pan Evap x 0.75 Pan Coefficient = 0.16" = 0.01'
Lake Average Precipitation using NEXRAD: = -NR-" = -NR-'
Evaporation - Precipitation: = -NR-" = -NR-'
Evaporation - Precipitation using Lake Area of 730 square miles
is equal to -NR-
Lake Okeechobee (Change in Storage) Flow is -2118 cfs or -4200 AC-FT
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—
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| | Headwater | Tailwater | | | | Gat | ce Pos | sitior | ıs | |
|--------------------------|----------------|-----------|---------|--------|--------|------|--------|--------|-------|------|
| | Elevation | Elevation | Disch | #1 | #2 | #3 | #4 | #5 | #6 | #7 |
| #8 | (ft-msl) | (ft-msl) | (cfs) | (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (ft) |
| (ft) | | | | | | | | | | |
| | | (I |) see n | ote at | : bott | Com | | | | |
| North East S | | 12 00 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| S133 Pumps S193: | | 13.22 | 0 | 0 | 0 | 0 | 0 | 0 | (cfs) |) |
| S191: | | 13.22 | 0 | -NR- | 0.0 | 0.0 | | | | |
| S135 Pumps | : 13.24 | 13.21 | 0 | 0 | 0 | 0 | 0 | | (cfs) |) |
| S135 Culve | rts: | | 0 | 0.0 | 0.0 | | | | | |
| North West S | hore | | | | | | | | | |
| S65E: | | 13.07 | 621 | 0.0 | 0.3 | 0.3 | 0.3 | 0.3 | 0.0 | |
| S65EX1: | | 13.07 | 77 | | | | | | | |
| S127 Pumps | : 13.08 | 13.25 | 0 | 0 | 0 | 0 | 0 | 0 | (cfs) |) |
| S127 Culve | | | 0 | 0.0 | | | | | (| , |
| S129 Pumps | : 13.23 | 13.38 | 0 | 0 | 0 | 0 | | | (cfs) |) |
| S129 Culve | | 13.30 | 0 | 0.0 | 0 | 0 | | | (CID) | / |
| C121 Dump | • 12 10 | 13.33 | 0 | 0 | 0 | | | | (cfs) | \ |
| SI31 Pumps S131 Culve | : 13.10 rt: | 13.33 | 0 | 0 | 0 | | | | (CIS) |) |
| | | | - | | | | | | | |
| Fisheating nr Palmd | | | -NR- | | | | | | | |
| nr Lakep | ort | | | | | | | | | |
| C5: | | -NR- | 0 | -NF | RNF | RNH | ٤– | | | |
| South Shore | | | | | | | | | | |
| S4 Pumps: | 11.48 | 13.35 | 0 | 0 | 0 | 0 | | | (cfs) |) |
| S169: | 13.39 | 11.51 | 74 | 0.5 | 1.0 | 0.5 | | | | |
| S310: | 13.30 | | 49 | | | | | | | |
| | | | | | | | | | | |

 S3 Pumps:
 10.50
 13.37
 0
 0
 0
 0

 S354:
 13.37
 10.50
 0
 0.0
 0.0
 0

 S2 Pumps:
 10.32
 -NR 0
 0
 0
 0

 S351:
 -NR 10.32
 0
 0.0
 0.0
 0.0

 S352:
 13.44
 10.31
 0
 0.0
 0.0

 C10A:
 -NR 13.50
 8.0
 8.0
 8.0

 L8 Canal PT
 13.30
 -65
 -65
 -65

 (cfs) 0 0 0 0 (cfs) 8.0 8.0 8.0 0.0 0.0 S351 and S352 Temporary Pumps/S354 Spillway -NR- 0 -NR--NR--NR--NR--NR-13.44 0 -NR--NR--NR-13.37 0 -NR--NR--NR-10.32 S351: S352: 10.31 S354: 10.50 Caloosahatchee River (S77, S78, S79) S47B: 12.35 11.94 7.5 7.5 S47D: 12.26 10.94 54 0.0 S77: Spillway and Sector Preferred Flow: 13.15 10.82 859 0.5 0.5 3.0 0.5 4 Flow Due to Lockages+: S78: Spillway and Sector Flow: 10.84 2.77 729 1.0 0.0 0.0 1.0 Flow Due to Lockages+: 14 S79: Spillway and Sector Flow: 2.93 2.50 794 0.0 0.0 1.0 1.0 1.0 0.0 0.0 0.0 Flow Due to Lockages+: 6 108% Percent of flow from S77 ____ S// (ppm) Chloride 0 St. Lucie Canal (S308, S80) S308: Spillway and Sector Preferred Flow: 13.26 13.13 65 0.0 0.0 0.0 0.0 Flow Due to Lockages+: 0 18.73 12.97 0 0.0 0.0 S153: S80: Spillway and Sector Flow:
 13.29
 2.14
 0
 0.0
 0.0
 0.0
 0.0
 0.0

 Flow Due to Lockages+:
 21
 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

| | | | | W: | ind |
|--|--|--------------------------------|--|---|---|
| - Daily Precipitation Totals | 1-Day | 3-Day | 7-Day | Directio | on |
| Speed | | <i>(</i>))) | <i>.</i> | () | |
| | (inches) | (inches) | (inches) | (Degø) | |
| (mph) | ND | 0 00 | 0 00 | | |
| S133 Pump Station: | -NR- | 0.00 | 0.00 | NTD | NTD |
| S193: | -NR- | 0.00 | 0.00 | -NR- | -NR- |
| Okeechobee Field Station: | | 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 | | |
| S131 Pump Station: | -NR- | 0.00 | 0.00 | 204 | 2 |
| S77: | 4.71 | 4.91 | 5.98 | 324 | 2 |
| S78: | 1.63 | 1.84 | 1.84 | 351 | 2 |
| S79: | 2.19 | 2.44 | 2.47 | 48 | 2 |
| S4 Pump Station: | -NR- -NR- | 0.00 | 0.00 | | |
| Clewiston Field Station: | | 0.00 | 0.00 | | |
| S3 Pump Station: | -NR- | 0.00 | 0.00 | | |
| S2 Pump Station: | -NR- | 0.00 | 0.00 | C 1 | 1 |
| a200. | 20 01 | | | | |
| S308: | 30.91 | | | 64 | 4 |
| S80: | 8.07 | 8.42 | 8.56 | 287 | 1 |
| S80: Okeechobee Average | 8.07 17.81 | 8.42 2.77 | 8.56 | | |
| S80: | 8.07 17.81 S80 not inc | 8.42 2.77 luded) | 8.56 | | |
| S80: Okeechobee Average (Sites S78, S79 and | 8.07 17.81 S80 not inc | 8.42 2.77 luded) | 8.56 | | |
| S80: Okeechobee Average (Sites S78, S79 and | 8.07 17.81 S80 not inc | 8.42 2.77 luded) | 8.56 2.89 | | |
| S80: Okeechobee Average (Sites S78, S79 and Oke Nexrad Basin Avg | 8.07 17.81 . S80 not inc -NR- | 8.42 2.77 luded) 0.22 | 8.56 2.89 | 287 | 1 |
| S80: Okeechobee Average (Sites S78, S79 and Oke Nexrad Basin Avg | 8.07 17.81 S80 not inc -NR- 11 NOV 2019 10 NOV 2019 | 8.42 2.77 luded) 0.22 | 8.56 2.89 0.79 | 287 | 1 n |
| S80: Okeechobee Average (Sites S78, S79 and Oke Nexrad Basin Avg | 8.07 17.81 S80 not inc -NR- 11 NOV 2019 10 NOV 2019 | 8.42 2.77 luded) 0.22 | 8.56 2.89 0.79 13.32 Differ | 287 | 1 n)1 |
| S80: Okeechobee Average (Sites S78, S79 and Oke Nexrad Basin Avg | 8.07 17.81 S80 not inc -NR- 11 NOV 2019 | 8.42 2.77 luded) 0.22 | 8.56 2.89 0.79 13.32 Differ 13.33 | 287 | 1 n 01 01 |
| S80: Okeechobee Average (Sites S78, S79 and Oke Nexrad Basin Avg Okeechobee Lake Elevations 11NOV19 11NOV19 -1 Day = 11NOV19 -2 Days = 11NOV19 -3 Days = | 8.07 17.81 S80 not inc NR- 11 NOV 2019 10 NOV 2019 09 NOV 2019 | 8.42 2.77 luded) 0.22 | 8.56 2.89 0.79 13.32 Differ 13.33 13.33 | 287 rence from 0.(0.(| n 01 02 |
| S80: Okeechobee Average (Sites S78, S79 and Oke Nexrad Basin Avg Okeechobee Lake Elevations 11NOV19 11NOV19 -1 Day = 11NOV19 -2 Days = 11NOV19 -3 Days = | 8.07 17.81 S80 not inc NR- 11 NOV 2019 10 NOV 2019 09 NOV 2019 08 NOV 2019 | 8.42 2.77 luded) 0.22 | 8.56 2.89 0.79 13.32 Differ 13.33 13.33 13.34 | 287 rence from 0.0 0.0 0.0 | n 01 02 03 |
| S80: Okeechobee Average (Sites S78, S79 and Oke Nexrad Basin Avg Okeechobee Lake Elevations 11NOV19 11NOV19 -1 Day = 11NOV19 -2 Days = 11NOV19 -3 Days = 11NOV19 -4 Days = | 8.07 17.81 S80 not inc NR- 11 NOV 2019 10 NOV 2019 09 NOV 2019 08 NOV 2019 07 NOV 2019 | 8.42 2.77 luded) 0.22 | 8.56 2.89 0.79 13.32 Differ 13.33 13.33 13.34 13.35 | 287 rence from 0.0 0.0 0.0 0.0 | n 01 02 03 04 |
| S80: Okeechobee Average (Sites S78, S79 and Oke Nexrad Basin Avg Okeechobee Lake Elevations 11NOV19 11NOV19 -1 Day = 11NOV19 -2 Days = 11NOV19 -3 Days = 11NOV19 -4 Days = 11NOV19 -5 Days = | 8.07 17.81 S80 not inc NR- 11 NOV 2019 10 NOV 2019 09 NOV 2019 08 NOV 2019 07 NOV 2019 06 NOV 2019 | 8.42 2.77 luded) 0.22 | 8.56 2.89 0.79 13.32 Differ 13.33 13.33 13.34 13.35 13.36 | 287 rence from 0.0 0.0 0.0 0.0 0.0 | 1 n 01 02 03 04 05 |
| S80: Okeechobee Average (Sites S78, S79 and Oke Nexrad Basin Avg Okeechobee Lake Elevations 11NOV19 11NOV19 -1 Day = 11NOV19 -2 Days = 11NOV19 -3 Days = 11NOV19 -4 Days = 11NOV19 -5 Days = 11NOV19 -6 Days = | 8.07 17.81 S80 not inc NR- 11 NOV 2019 10 NOV 2019 09 NOV 2019 08 NOV 2019 07 NOV 2019 06 NOV 2019 06 NOV 2019 05 NOV 2019 | 8.42 2.77 luded) 0.22 | 8.56 2.89 0.79 13.32 Differ 13.33 13.33 13.33 13.34 13.35 13.36 13.37 | 287 rence from 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | n 01 01 02 03 04 05 05 |
| S80: Okeechobee Average (Sites S78, S79 and Oke Nexrad Basin Avg Okeechobee Lake Elevations 11NOV19 11NOV19 -1 Day = 11NOV19 -2 Days = 11NOV19 -3 Days = 11NOV19 -4 Days = 11NOV19 -5 Days = 11NOV19 -6 Days = 11NOV19 -7 Days = | 8.07 17.81 S80 not inc NR- 11 NOV 2019 10 NOV 2019 09 NOV 2019 08 NOV 2019 07 NOV 2019 06 NOV 2019 06 NOV 2019 05 NOV 2019 04 NOV 2019 | 8.42 2.77 luded) 0.22 | 8.56 2.89 0.79 13.32 Differ 13.33 13.33 13.33 13.34 13.35 13.36 13.37 13.37 | 287 | n 01 01 02 03 04 05 05 18 |

Lake Okeechobee Net Inflow (LONIN) Average Flow over the previous 14 days | Avg-Daily Flow

| 11NOV19 Today | . = 1 | ll nov | 2019 | -1678 | TUE | -1194 |
|------------------|-------|--------|------|-------|-----|-------|
| 11NOV19 -1 Day | = 1 | LO NOV | 2019 | -1740 | MON | 369 |
| 11NOV19 -2 Days | = 0 | 9 NOV | 2019 | -1319 | SUN | -1546 |
| 11NOV19 -3 Days | = 0 | 08 NOV | 2019 | -1040 | SAT | -1365 |
| 11NOV19 -4 Days | = 0 | 07 NOV | 2019 | -1214 | FRI | -1453 |
| 11NOV19 -5 Days | = 0 |)6 NOV | 2019 | -1105 | THU | -1371 |
| 11NOV19 -6 Days | = 0 |)5 NOV | 2019 | -1298 | WED | 760 |
| 11NOV19 -7 Days | = 0 | 04 NOV | 2019 | -1350 | TUE | -751 |
| 11NOV19 -8 Days | = 0 |)3 NOV | 2019 | -1293 | MON | -6983 |
| 11NOV19 -9 Days | = 0 |)2 NOV | 2019 | 94 | SUN | -2083 |
| 11NOV19 -10 Days | = 0 | 01 NOV | 2019 | 847 | SAT | -1414 |
| 11NOV19 -11 Days | = 3 | 31 OCT | 2019 | 722 | FRI | -1289 |
| 11NOV19 -12 Days | = 3 | 30 OCT | 2019 | 608 | THU | -3475 |
| 11NOV19 -13 Days | = 2 | 29 OCT | 2019 | 798 | WED | -1696 |
| | | | | | | |

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| - | | | | | | Se | 55E | | | |
|---|---------|-----|-------|----|---------|------|--------|----------|---------|----------------|
| | | | | | Average | Flow | v over | previous | 14 days | Avg-Daily Flow |
| | 11NOV19 | | Today | /= | 11 | NOV | 2019 | 233 | TUE | -NR- |
| | 11NOV19 | -1 | Day | = | 10 | NOV | 2019 | 232 | MON | -NR- |
| | 11NOV19 | -2 | Days | = | 09 | NOV | 2019 | 248 | SUN | 0 |
| | 11NOV19 | -3 | Days | = | 08 | NOV | 2019 | 274 | SAT | 62 |
| | 11NOV19 | -4 | Days | = | 07 | NOV | 2019 | 294 | FRI | 248 |
| | 11NOV19 | -5 | Days | = | 06 | NOV | 2019 | 294 | THU | 228 |
| | 11NOV19 | -б | Days | = | 05 | NOV | 2019 | 303 | WED | 170 |
| | 11NOV19 | -7 | Days | = | 04 | NOV | 2019 | 316 | TUE | 135 |
| | 11NOV19 | -8 | Days | = | 03 | NOV | 2019 | 323 | MON | 277 |
| | 11NOV19 | -9 | Days | = | 02 | NOV | 2019 | 320 | SUN | 330 |
| | 11NOV19 | -10 | Days | = | 01 | NOV | 2019 | 313 | SAT | 337 |
| | 11NOV19 | -11 | Days | = | 31 | OCT | 2019 | 305 | FRI | 277 |
| | 11NOV19 | -12 | Days | = | 30 | OCT | 2019 | 305 | THU | 344 |
| | 11NOV19 | -13 | Days | = | 29 | OCT | 2019 | 297 | WED | 385 |
| | | | | | | | | | | |

| _ | | | | | | ~ . | | | | | |
|------|------|-----|-------|------------|---------|------|---------------|----------|---------|-----------|------|
| | | | | | | Se | 55EX1 | | | | |
| | | | | | Average | Flov | <i>v</i> over | previous | 14 days | Avg-Daily | Flow |
| 11N(| OV19 | | Today | <u>/</u> = | 11 | NOV | 2019 | 104 | TUE | 77 | |
| 11N0 | OV19 | -1 | Day | = | 10 | NOV | 2019 | 98 | MON | 55 | |
| 11N0 | OV19 | -2 | Days | = | 09 | NOV | 2019 | 102 | SUN | 0 | |
| 11N0 | OV19 | -3 | Days | = | 08 | NOV | 2019 | 110 | SAT | 17 | |
| 11N0 | OV19 | -4 | Days | = | 07 | NOV | 2019 | 115 | FRI | 170 | |
| 11N0 | OV19 | -5 | Days | = | 06 | NOV | 2019 | 106 | THU | 86 | |
| 11N0 | OV19 | -6 | Days | = | 05 | NOV | 2019 | 107 | WED | 216 | |
| 11N0 | OV19 | -7 | Days | = | 04 | NOV | 2019 | 102 | TUE | 228 | |
| 11N0 | OV19 | -8 | Days | = | 03 | NOV | 2019 | 100 | MON | 111 | |
| 11N0 | OV19 | -9 | Days | = | 02 | NOV | 2019 | 107 | SUN | 111 | |
| 11N0 | OV19 | -10 | Days | = | 01 | NOV | 2019 | 114 | SAT | 95 | |
| 11N0 | OV19 | -11 | Days | = | 31 | OCT | 2019 | 115 | FRI | 51 | |
| 11N0 | OV19 | -12 | Days | = | 30 | OCT | 2019 | 121 | THU | 102 | |
| 11N0 | OV19 | -13 | Days | = | 29 | OCT | 2019 | 125 | WED | 135 | |

_ Lake Okeechobee Outlets Last 14 Days

| | S-77 | Below S-77 | S-78 | S-79 | | |
|---|--|---|---|--|--|--|
| | Discharge | Discharge | Discharge | Discharge | | |
| | (ALL DAY) | (ALL-DAY) | (ALL DAY) | (ALL DAY) | | |
| DATE | (AC-FT) | (AC-FT) | (AC-FT) | (AC-FT) | | |
| 11 NOV 2019 | 1708 | 1656 | 1470 | 1560 | | |
| 10 NOV 2019 | 1323 | 710 | 1523 | 2212 | | |
| 09 NOV 2019 | 983 | 752 | 766 | 1508 | | |
| 08 NOV 2019 | 971 | 933 | 317 | 438 | | |
| 07 NOV 2019 | 978 | 896 | 317 | 653 | | |
| 06 NOV 2019 | | 897 | 494 | 1215 | | |
| 05 NOV 2019 | | 1150 | 922 | 1377 | | |
| 04 NOV 2019 | 2223 | 2224 | 1334 | 1770 | | |
| 03 NOV 2019 | | 1842 | 1614 | 2620 | | |
| 02 NOV 2019 | 1443 | 1361 | 898 | 1380 | | |
| 01 NOV 2019 | | 1192 | 619 | 221 | | |
| 31 OCT 2019 | | 1575 | 613 | 169 | | |
| 30 OCT 2019 | | 1506 | 612 | 263 | | |
| 29 OCT 2019 | 767 | 879 | 514 | 473 | | |
| | | | | | | |
| | | | | | | |
| | S-310 | S-351 | S-352 | S-354 | L8 Canal Pt | |
| | Discharge | Discharge | Discharge | Discharge | Discharge | |
| | Discharge (ALL DAY) | Discharge (ALL DAY) | Discharge (ALL DAY) | Discharge (ALL DAY) | Discharge (ALL DAY) | |
| DATE | Discharge (ALL DAY) (AC-FT) | Discharge (ALL DAY) (AC-FT) | Discharge (ALL DAY) (AC-FT) | Discharge (ALL DAY) (AC-FT) | Discharge (ALL DAY) (AC-FT) | |
| 11 NOV 2019 | Discharge (ALL DAY) (AC-FT) 98 | Discharge (ALL DAY) (AC-FT) 0 | Discharge (ALL DAY) (AC-FT) 0 | Discharge (ALL DAY) (AC-FT) 0 | Discharge (ALL DAY) (AC-FT) -129 | |
| 11 NOV 2019 10 NOV 2019 | Discharge (ALL DAY) (AC-FT) 98 -47 | Discharge (ALL DAY) (AC-FT) 0 0 | Discharge (ALL DAY) (AC-FT) 0 0 | Discharge (ALL DAY) (AC-FT) 0 0 | Discharge (ALL DAY) (AC-FT) -129 -176 | |
| 11 NOV 2019 10 NOV 2019 09 NOV 2019 | Discharge (ALL DAY) (AC-FT) 98 -47 136 | Discharge (ALL DAY) (AC-FT) 0 0 101 | Discharge (ALL DAY) (AC-FT) 0 0 0 | Discharge (ALL DAY) (AC-FT) 0 0 52 | Discharge (ALL DAY) (AC-FT) -129 -176 -32 | |
| 11 NOV 2019 10 NOV 2019 09 NOV 2019 08 NOV 2019 | Discharge (ALL DAY) (AC-FT) 98 -47 136 232 | Discharge (ALL DAY) (AC-FT) 0 0 101 289 | Discharge (ALL DAY) (AC-FT) 0 0 0 0 0 | Discharge (ALL DAY) (AC-FT) 0 0 52 137 | Discharge (ALL DAY) (AC-FT) -129 -176 -32 108 | |
| 11 NOV 2019 10 NOV 2019 09 NOV 2019 08 NOV 2019 07 NOV 2019 | Discharge (ALL DAY) (AC-FT) 98 -47 136 232 175 | Discharge (ALL DAY) (AC-FT) 0 0 101 289 0 | Discharge (ALL DAY) (AC-FT) 0 0 0 0 0 0 0 | Discharge (ALL DAY) (AC-FT) 0 0 52 137 176 | Discharge (ALL DAY) (AC-FT) -129 -176 -32 108 145 | |
| 11 NOV 2019 10 NOV 2019 09 NOV 2019 08 NOV 2019 07 NOV 2019 06 NOV 2019 | Discharge (ALL DAY) (AC-FT) 98 -47 136 232 175 189 | Discharge (ALL DAY) (AC-FT) 0 0 101 289 0 0 | Discharge (ALL DAY) (AC-FT) 0 0 0 0 0 0 0 0 0 0 | Discharge (ALL DAY) (AC-FT) 0 0 52 137 176 173 | Discharge (ALL DAY) (AC-FT) -129 -176 -32 108 145 147 | |
| 11 NOV 2019 10 NOV 2019 09 NOV 2019 08 NOV 2019 07 NOV 2019 06 NOV 2019 05 NOV 2019 | Discharge (ALL DAY) (AC-FT) 98 -47 136 232 175 189 32 | Discharge (ALL DAY) (AC-FT) 0 0 101 289 0 0 0 0 | Discharge (ALL DAY) (AC-FT) 0 0 0 0 0 0 0 0 0 0 | Discharge (ALL DAY) (AC-FT) 0 52 137 176 173 69 | Discharge (ALL DAY) (AC-FT) -129 -176 -32 108 145 147 142 | |
| 11 NOV 2019 10 NOV 2019 09 NOV 2019 08 NOV 2019 07 NOV 2019 06 NOV 2019 05 NOV 2019 04 NOV 2019 | Discharge (ALL DAY) (AC-FT) 98 -47 136 232 175 189 32 141 | Discharge (ALL DAY) (AC-FT) 0 0 101 289 0 0 0 0 136 | Discharge (ALL DAY) (AC-FT) 0 0 0 0 0 0 0 0 0 0 0 0 | Discharge (ALL DAY) (AC-FT) 0 0 52 137 176 173 69 133 | Discharge (ALL DAY) (AC-FT) -129 -176 -32 108 145 147 142 180 | |
| 11 NOV 2019 10 NOV 2019 09 NOV 2019 08 NOV 2019 07 NOV 2019 06 NOV 2019 05 NOV 2019 04 NOV 2019 03 NOV 2019 | Discharge (ALL DAY) (AC-FT) 98 -47 136 232 175 189 32 141 14 | Discharge (ALL DAY) (AC-FT) 0 0 101 289 0 0 0 136 410 | Discharge (ALL DAY) (AC-FT) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Discharge (ALL DAY) (AC-FT) 0 0 52 137 176 173 69 133 133 | Discharge (ALL DAY) (AC-FT) -129 -176 -32 108 145 147 142 180 203 | |
| 11 NOV 2019 10 NOV 2019 09 NOV 2019 08 NOV 2019 07 NOV 2019 06 NOV 2019 05 NOV 2019 04 NOV 2019 03 NOV 2019 02 NOV 2019 | Discharge (ALL DAY) (AC-FT) 98 -47 136 232 175 189 32 141 14 -9 | Discharge (ALL DAY) (AC-FT) 0 0 101 289 0 0 0 136 410 1224 | Discharge (ALL DAY) (AC-FT) 0 0 0 0 0 0 0 0 0 0 0 345 | Discharge (ALL DAY) (AC-FT) 0 0 52 137 176 173 69 133 133 133 535 | Discharge (ALL DAY) (AC-FT) -129 -176 -32 108 145 147 142 180 203 275 | |
| 11 NOV 2019 10 NOV 2019 09 NOV 2019 08 NOV 2019 07 NOV 2019 06 NOV 2019 05 NOV 2019 04 NOV 2019 03 NOV 2019 01 NOV 2019 | Discharge (ALL DAY) (AC-FT) 98 -47 136 232 175 189 32 141 14 -9 37 | Discharge (ALL DAY) (AC-FT) 0 0 101 289 0 0 0 136 410 1224 0 | Discharge (ALL DAY) (AC-FT) 0 0 0 0 0 0 0 0 0 0 345 0 | Discharge (ALL DAY) (AC-FT) 0 52 137 176 173 69 133 133 535 0 | Discharge (ALL DAY) (AC-FT) -129 -176 -32 108 145 147 142 180 203 275 90 | |
| 11 NOV 2019 10 NOV 2019 09 NOV 2019 08 NOV 2019 07 NOV 2019 06 NOV 2019 05 NOV 2019 04 NOV 2019 03 NOV 2019 01 NOV 2019 31 OCT 2019 | Discharge (ALL DAY) (AC-FT) 98 -47 136 232 175 189 32 141 14 -9 37 -29 | Discharge (ALL DAY) (AC-FT) 0 0 101 289 0 0 0 136 410 1224 0 0 | Discharge (ALL DAY) (AC-FT) 0 0 0 0 0 0 0 0 0 0 0 0 345 0 0 0 | Discharge (ALL DAY) (AC-FT) 0 52 137 176 173 69 133 133 535 0 0 | Discharge (ALL DAY) (AC-FT) -129 -176 -32 108 145 147 142 180 203 275 90 179 | |
| 11 NOV 2019 10 NOV 2019 09 NOV 2019 08 NOV 2019 07 NOV 2019 06 NOV 2019 05 NOV 2019 04 NOV 2019 03 NOV 2019 01 NOV 2019 01 NOV 2019 31 OCT 2019 30 OCT 2019 | Discharge (ALL DAY) (AC-FT) 98 -47 136 232 175 189 32 141 14 -9 37 -29 26 | Discharge (ALL DAY) (AC-FT) 0 101 289 0 0 0 136 410 1224 0 0 0 0 | Discharge (ALL DAY) (AC-FT) 0 0 0 0 0 0 0 0 0 0 0 0 345 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Discharge (ALL DAY) (AC-FT) 0 52 137 176 173 69 133 133 535 0 0 0 0 | Discharge (ALL DAY) (AC-FT) -129 -176 -32 108 145 147 142 180 203 275 90 179 72 | |
| 11 NOV 2019 10 NOV 2019 09 NOV 2019 08 NOV 2019 07 NOV 2019 06 NOV 2019 05 NOV 2019 04 NOV 2019 03 NOV 2019 01 NOV 2019 31 OCT 2019 | Discharge (ALL DAY) (AC-FT) 98 -47 136 232 175 189 32 141 14 -9 37 -29 26 | Discharge (ALL DAY) (AC-FT) 0 0 101 289 0 0 0 136 410 1224 0 0 | Discharge (ALL DAY) (AC-FT) 0 0 0 0 0 0 0 0 0 0 0 0 345 0 0 0 | Discharge (ALL DAY) (AC-FT) 0 52 137 176 173 69 133 133 535 0 0 | Discharge (ALL DAY) (AC-FT) -129 -176 -32 108 145 147 142 180 203 275 90 179 | |

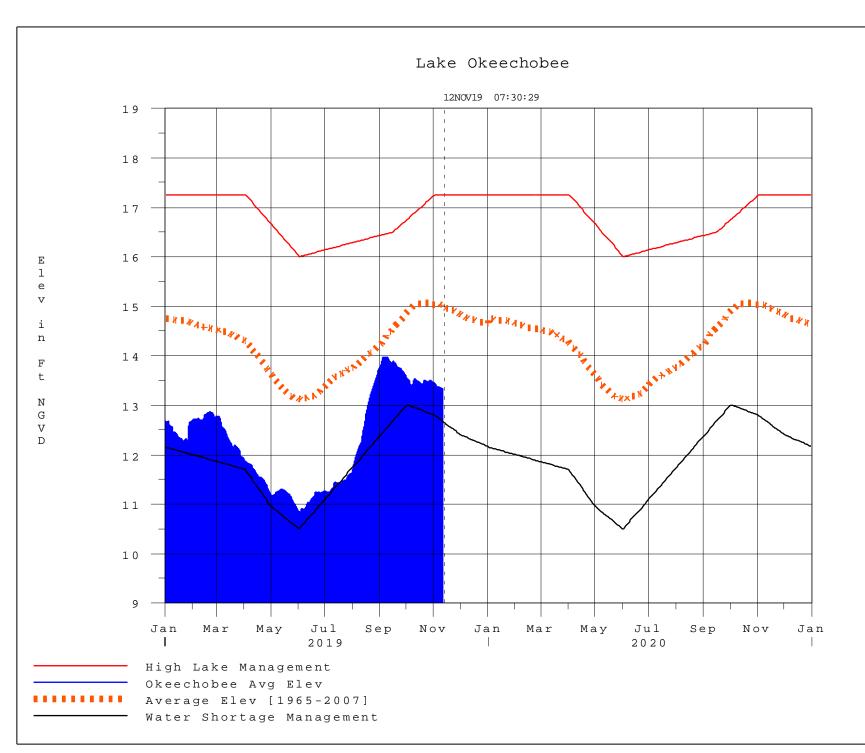
| | | S-308 | Below S-308 | S-80 | |
|----------|------|-----------|-------------|-----------|--|
| | Ι | Discharge | Discharge | Discharge | |
| | | (ALL DAY) | (ALL-DAY) | (ALL-DAY) | |
| DATE | | (AC-FT) | (AC-FT) | (AC-FT) | |
| 11 NOV 2 | 2019 | 152 | 229 | 41 | |
| 10 NOV 2 | 2019 | 87 | -389 | 41 | |
| 09 NOV 2 | 2019 | -0 | -38 | 22 | |
| 08 NOV 2 | 2019 | -100 | 71 | 60 | |
| 07 NOV 2 | 2019 | 0 | 18 | 34 | |
| 06 NOV 2 | 2019 | 114 | -369 | 24 | |
| 05 NOV 2 | 2019 | -621 | -143 | 58 | |
| 04 NOV 2 | 2019 | -1 | 155 | 48 | |
| 03 NOV 2 | 2019 | -632 | -829 | 31 | |
| 02 NOV 2 | 2019 | -2 | 56 | 58 | |
| 01 NOV 2 | 2019 | -3 | 23 | 51 | |
| 31 OCT 2 | 2019 | -2 | -348 | 40 | |
| 30 OCT 2 | 2019 | -2 | -8 | 55 | |
| 29 OCT 2 | 2019 | -1 | 175 | 40 | |

| | | Lockages | Discharges | fro | om 0015 hr | rs to 2 | 2400 hrs. | | | |
|------------|-------|-----------|-------------|-----|------------|---------|-----------|--------|------|--|
| *** and | NOTE: | Discharge | e (ALL DAY) | is | computed | using | Spillway, | Sector | Gate | |

(I) - Flows preceeded 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 12NOV2019 @ 07:39 ** 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

• <u>6-15 Day Precipitation Outlook Categories</u>

Table ?? in the Lake Okeechobee Water Control Plan

<u>Classification of Lake Okeechobee Net Inflow for Seasonal</u>

<u>Outlook</u>

 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 Classification* | Palmer Index Class Limits | 2-wk Mean L.O. Net 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 |

* use the wettest of the two indicators

Classification of Lake Okeechobee Net Inflow Seasonal Outlook*

| Lake Net Inflow Prediction | Equivalent Depth** | Lake Okeechobee |
|-------------------------------|-----------------------|------------------|
| [million acre-feet] | [feet] | Net Inflow |
| | | 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 |

**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 Prediction | Equivalent 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 |

**Volume-depth conversion based on average lake surface area of 467,000 acres

6-15 Day Precipitation Outlook Categories*

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

* Corresponds to Table 7-6 in the Lake Okeechobee Water Control Plan

Under Construction