

St Lucie River Estuary and Indian River Lagoon

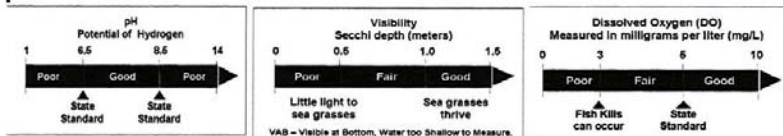
St. Lucie River Estuary Water Quality Outlook

This information is provided by the Florida Oceanographic Society with support of the Marine Resources Council. It is collected by the Citizen Volunteer Water Quality Monitoring Network. For complete data go to our website at:
<http://www.floridaoceanographic.org/water.htm>

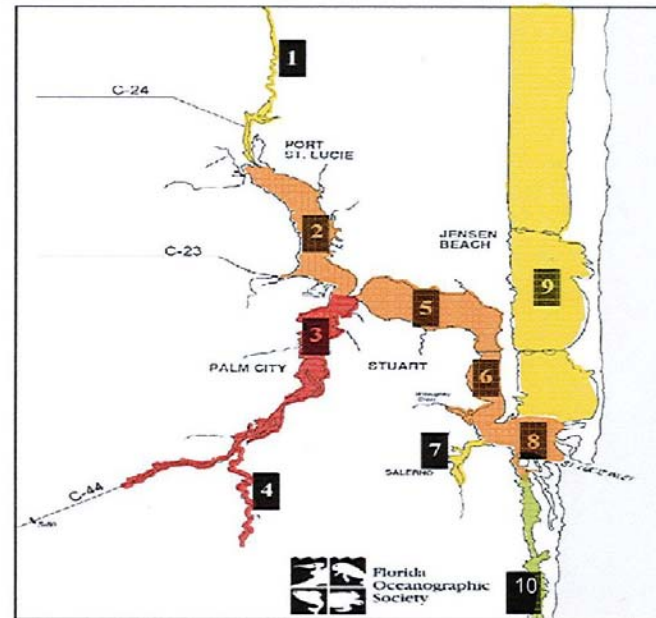
Posted: **10/18/12**

Overall Grade:	67.2%	D+	POOR
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Zone/ Location	Water Temp. Deg. F	pH	Visibility (Secchi) Meters	Salinity ppt	Dissolved Oxygen mg/L	Location Score	Grade
1. Winding North Fork	78	7.6	0.60 Fair	1.0 Fair	5.0 Good	76%	C Satisfactory
2. North Fork	80	7.7	0.63 Fair	0.5 Poor	5.8 Good	66%	D Poor
3. South Fork	79	7.2	0.40 Poor	0.0 Poor	4.4 Fair	51%	F Destructive
4. Winding South Fork	78	7.2	0.47 Poor	0.0 Poor	2.7 Poor	46%	F Destructive
5. Wide Middle River	79	7.8	0.53 Fair	3.3 Poor	5.2 Good	66%	D Poor
6. Narrow Middle River	84	8.0	0.93 Fair	9.3 Poor	6.4 Good	66%	D Poor
7. Manatee Pocket	82	8.2	1.00 Good	11.0 Poor	6.9 Good	77%	C Satisfactory
8. Inlet Area	82	8.0	0.80 Fair	22.3 Poor	5.5 Good	66%	D Poor
9. Indian River Lagoon	79	8.4	0.95 Fair	28.5 Fair	6.5 Good	76%	C Satisfactory
10. Intracoastal Waterway South	79	7.8	1.20 Good	28.5 Fair	4.7 Fair	81%	B Good



Comment: The data above may indicate areas of concern in the St. Lucie Estuary. Citizens should call the Florida Department of Environmental Protection (DEP) at 871-7862 or the South Florida Water Management District (SFWMD) 223-2600 to ask about the quality of a specific area and report observations of pollution.



Grading				
A	B	C	D	F
90-100	80-89	70-79	60-69	0-59
IDEAL	GOOD	SATISFACTORY	POOR	DESTRUCTIVE

Salinity (Parts per Thousand)				
Zones	Description	Good	Fair	Poor
1 & 4	Winding North & South Forks	2 to 8	1 to 2 or 8 to 15	< 1 or > 15
2 & 3	Inner St. Lucie Estuary (North & South Fork)	15 to 25	10 to 15 or > 25	< 10
5	Wide Middle St. Lucie River	> 20	15 to 20	< 15
6	Narrow Middle St. Lucie River	> 25	20 to 25	< 20
7	Manatee Pocket	> 27.5	20 to 27.5	< 20
8, 9 & 10	Inlet, Indian River Lagoon, & Intracoastal Waterway South	>30	25 to 30	< 25





0 0.5 1 2 Miles

North Fork

Middle Estuary

FOS

M.S. Oyster Reef

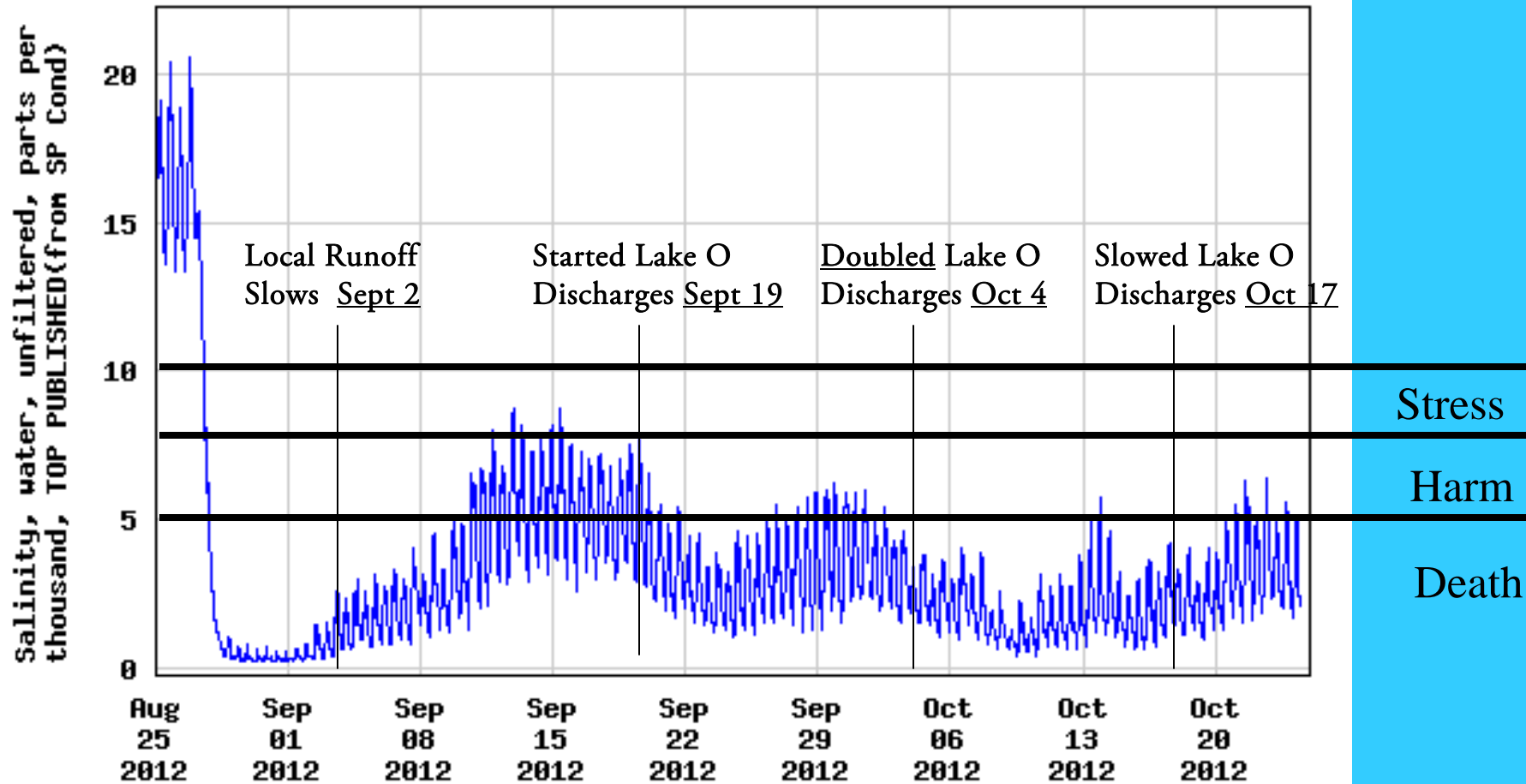
Lower Estuary

South Fork

-  Florida Oceanographic Coastal Center
-  Martin Co./NOAA Reefs
-  Historic Oyster Reefs



USGS 02277100 ST LUCIE RIVER AT SPEEDY POINT, STUART FL



---- Provisional Data Subject to Revision ----

Death

Salinity Tolerance for Oysters

7 Days-Spat & Juveniles

14 – 28 Days – Adults

(Aug 26 – Oct 24 59 Days)



U. S. Army Corps of Engineers, Jacksonville District
 Lake Okeechobee and Vicinity Report
 ** Preliminary Data - Subject to Revision **

Data Ending 2400 hours 23 OCT 2012

Okeechobee Lake Regulation	Elevation (ft-NGVD)	Last Year (ft-NGVD)	2YRS Ago (ft-NGVD)
*Okeechobee Lake Elevation	15.84	12.85	13.65 (Official Elv)
Bottom of High Lake Mngmt=	17.11	Top of Water Short Mngmt=	12.85
Currently in Operational Management Band			
Simulated Average LORS2008 [1965-2000]	14.02		
Difference from Average LORS2008	1.82		
23OCT (1965-2007) Period of Record Average	15.07		
Difference from POR Average	0.77		

Today Lake Okechobee elevation is determined from the 4 Int & 4 Edge stations

++Navigation Depth (Based on 2007 Channel Condition Survey) Route 1 ÷ 9.78'
 ++Navigation Depth (Based on 2008 Channel Condition Survey) Route 2 ÷ 7.98'
 Bridge Clearance = 49.46'

4 Interior and 4 Edge Okeechobee Lake Average (Avg-Daily values):

L001	L005	L006	LZ40	S4	S352	S308	S133
15.62	15.86	15.87	15.93	16.08	16.00	15.72	15.69

*Combination Okeechobee Avg-Daily Lake Average = 15.84
 (*See Note)

Okeechobee Inflows (cfs):

S65E	1077	S191	103	Fisheating Cr	458
S154	106	S133 Pumps	90	S135 Pumps	110
S84	48	S127 Pumps	35	S2 Pumps	0
S71	798	S129 Pumps	36	S3 Pumps	0
S72	288	S131 Pumps	36	S4 Pumps	0
Total Inflows:	3185				

Okeechobee Outflows (cfs):

S135 Culverts	0	S354	0	S77	2489 (Used)
S127 Culverts	0	S351	0	S77Below	3356 (NOT USED)
S129 Culverts	0	S352	0	S308	716 (Used)
S131 Culverts	0	L8 Canal Pt	18	S308Below	789 (NOT USED)
C5	0				
Total Outflows:	3223				

****S77 Structure outflow is being used to compute Total Outflow.
 ****S308 Structure outflow is being used to compute Total Outflow.

Okeechobee Pan Evaporation (inches):

S77	0.21	S308	0.14
Average Pan Evap x 0.75 Pan Coefficient = 0.13" = 0.01'			

Lake Average Precipitation using NEXRAD: = 0.00" = 0.00'



St. Lucie Lock and Dam (S-80)
 Daily Morning Report Data Ending at 2400 Hours

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

	Head (ft-msl)	Tail (ft-msl)	Flow (cfs)	Precip (in)	Dir (deg)	Speed (mph)	Locks (#)	Barometer (Hg") (mBar)	Manual Precip (in)
17OCT12	14.39	1.96	1810	0.76	270	0.0	8	29.89 1012.1	0.90
18OCT12	14.27	1.51	1544	0.00	154	0.4	10	29.87 1011.6	0.20
19OCT12	14.21	1.02	1431	0.00	174	0.7	8	29.88 1011.8	0.00
20OCT12	13.91	0.73	1176	0.00	90	0.0	12	29.95 1014.1	0.00
21OCT12	14.13	0.55	1165	0.00	78	0.7	12	30.02 1016.5	0.00
22OCT12	13.94	0.90	1173	0.00	89	5.9	11	30.02 1016.6	0.00
23OCT12	13.96	1.14	1165	0.05	113	3.5	11	29.99 1015.7	0.05

	Gate1	Gate2	Gate3	Gate4	Gate5	Gate6	Gate7
17OCT12	0.7	0.8	0.8	0.0	0.8	0.7	0.0
18OCT12	0.6	0.6	0.6	0.5	0.6	0.6	0.6
19OCT12	0.0	0.6	0.6	0.0	0.6	0.6	0.0
20OCT12	0.2	0.3	0.6	0.0	0.6	0.6	0.0
21OCT12	0.2	0.3	0.6	0.0	0.6	0.6	0.0
22OCT12	0.2	0.3	0.6	0.0	0.6	0.6	0.0
23OCT12	0.2	0.3	0.6	0.0	0.6	0.6	0.0

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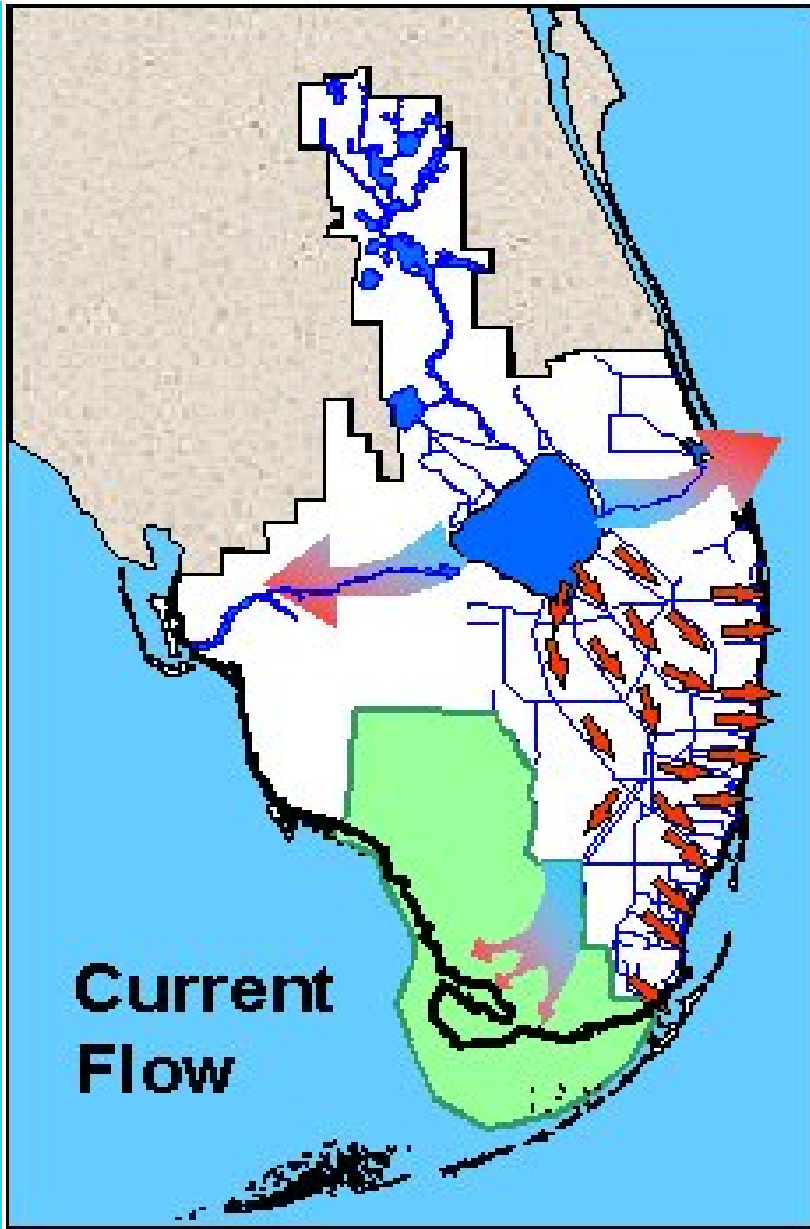
Port Mayaca Lock and Dam (S-308)
 Daily Morning Report Data Ending at 2400 Hours

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

	Head (ft-msl)	Tail (ft-msl)	Flow (cfs)	Precip (in)	Dir (deg)	Speed (mph)	Locks (#)	Barometer (Hg") (mBar)	Evap (in)	Manual Precip (in)
17OCT12	15.72	14.52	1258	0.00	57	0.3	14	29.86 1011.1	0.26	2.03
18OCT12	15.85	14.21	417	0.00	121	5.0	8	29.85 1010.8	0.16	0.00
19OCT12	15.85	14.08	227	0.00	123	4.7	9	29.86 1011.1	0.36	0.00
20OCT12	15.82	13.88	226	0.00	270	0.0	14	29.92 1013.3	0.14	0.00
21OCT12	15.82	14.16	659	0.00	14	0.0	16	30.00 1015.8	0.29	0.00
22OCT12	15.74	13.98	599	0.00	44	5.7	4	29.99 1015.7	0.30	0.00
23OCT12	15.79	14.04	712	0.00	35	0.1	10	29.97 1014.9	0.14	0.00

	Gate1	Gate2	Gate3	Gate4
17OCT12	0.0	2.5	2.5	0.0
18OCT12	0.0	0.0	0.0	0.0
19OCT12	0.0	0.5	0.0	0.0
20OCT12	0.0	1.5	0.0	0.0
21OCT12	0.0	2.5	1.0	0.0
22OCT12	0.0	2.5	0.0	0.0
23OCT12	0.0	2.5	1.0	0.0

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1.7 Billion Gallons per Day of freshwater is wasted to the Atlantic Ocean and Gulf of Mexico! (\$3.8 billion/yr)

