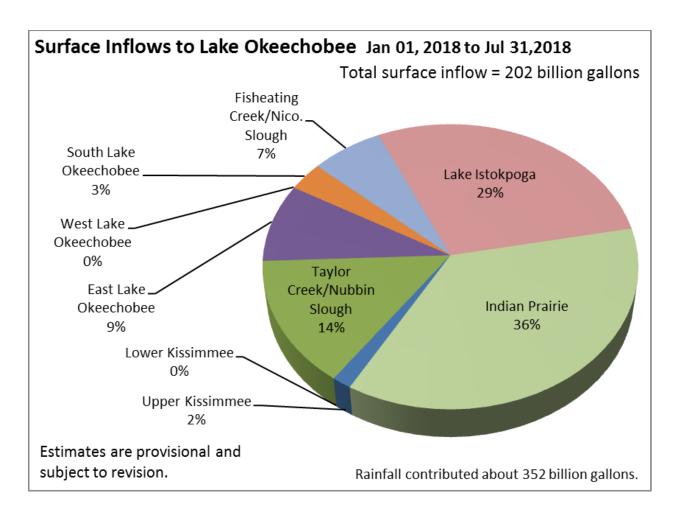
Partial Calendar Year 2018 Summary of Flows and Loads – through 7/31/2018 Updated 8/10/2018

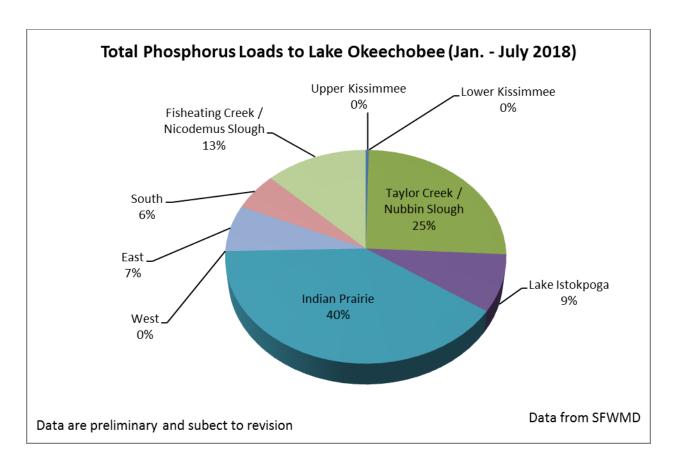
Content	Page
Summary	1
Surface Inflows to Lake Okeechobee by Sub-watershed (flow and phosphorus)	. 2
Comparison Against Last Year's of Inflows to Lake Okeechobee	3
Total Phosphorus Loads to Lake Okeechobee	4
Lack of Progress Towards Achieving Lake Okeechobee TMDL	5
Comparison of Lake Okeechobee Releases (billion gallons)	6
Distribution of Lake Okeechobee Releases (billion gallons)	7
Flows and Loads to the St. Lucie River and Estuary by sub-watershed	8
Flows and Loads to the St. Lucie River and Estuary by land use	9
Preliminary estimates of flows and loads to the St. Lucie Estuary	. 10
Tabular Summary of flow to the south (acre feet)	. 11
Graphical Summary of flow to the south (billion gallons)	. 12
Lake releases to the STAs by calendar year (acre feet)	. 13

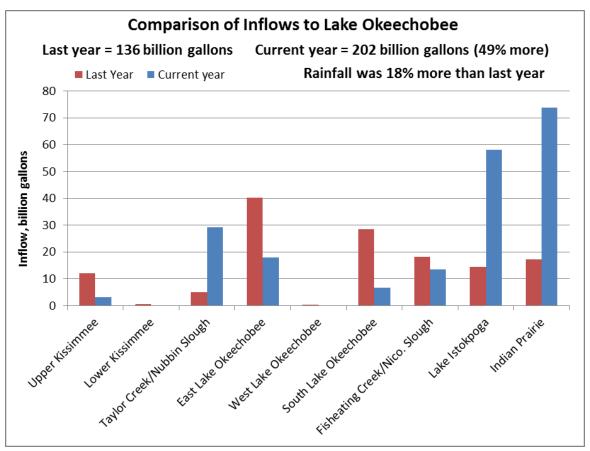
SUMMARY

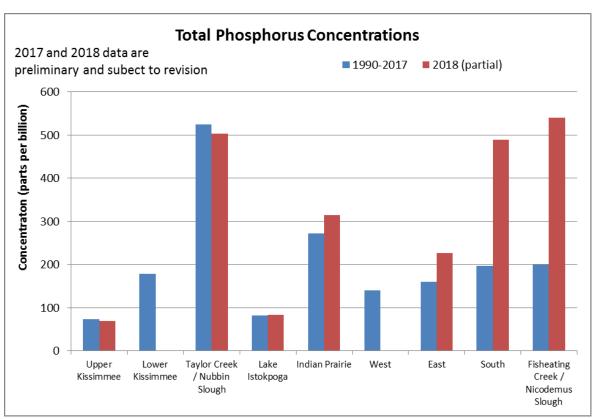
- Heavy rains from during May raised the water level of Lake Okeechobee to such an extent that
 the US Corps of Engineers began making regulatory discharges to the coastal estuaries beginning
 in June 2018. Between June 1 and July 31, approximately 183 billion gallons of polluted Lake
 water was discharged to the estuaries, including the Lake Worth Lagoon.
 - A massive bloom of toxic blue-green algae was reported to cover up to 90% of the Lake, yet discharges continue. The basin with the largest phosphorus load to the Lake was the Indian Prairie sub-watershed, located along the northwest shore of the lake.
 - Approximately 39 billion gallons of polluted Lake water was discharged to the St. Lucie River and Estuary.
 - The Lake discharges to the St. Lucie River and Estuary contained more than 75,000 pounds of phosphorus, more than 624,000 pounds of nitrogen, and more than 26 million pounds of suspended sediment.
 - Massive algae blooms from Lake Okeechobee are present in the St. Lucie River and Estuary.
 - Approximately 136 billion gallons of polluted Lake water was discharged to the Caloosahatchee Estuary.
 - The Lake discharges to the Caloosahatchee Estuary contained more than 226,000 pounds of phosphorus, more than 1.5 million pounds of nitrogen, and more than 10 million pounds of suspended sediment.
 - Massive algae blooms from Lake Okeechobee are present in the Caloosahatchee River and Estuary.
 - Approximately 8 billion gallons of polluted Lake water was discharged to the Lake Worth Lagoon.
- Through July 31, 2018, it is estimated that the St. Lucie River and Estuary received more than 362,000 pounds of phosphorus, more than 1.8 million pounds of nitrogen, and more than 32 million pounds of suspended sediment from the Lake and local watersheds, which are predominately agricultural.
 - The water quality of Lake discharges to the St. Lucie Estuary is particularly polluted: in addition to toxic algae, the phosphorus concentrations have averaged above 229 parts per billion – more than 5 times the target for the Lake.
 - Nitrogen loading from septic tanks is estimated at approximately 134,000 pounds, or about 7 percent of the total nitrogen loading to the St. Lucie River and Estuary.
 - Despite the destructive magnitude of Lake discharges, stormwater runoff from agricultural lands in the St. Lucie watershed contributed approximately twice the nitrogen and phosphorus loads to the estuary than Lake discharges.
 - During the previous year, Lake discharges to the STAs were at their lowest level in 5 years, at less than one-half of the anticipated average flow.

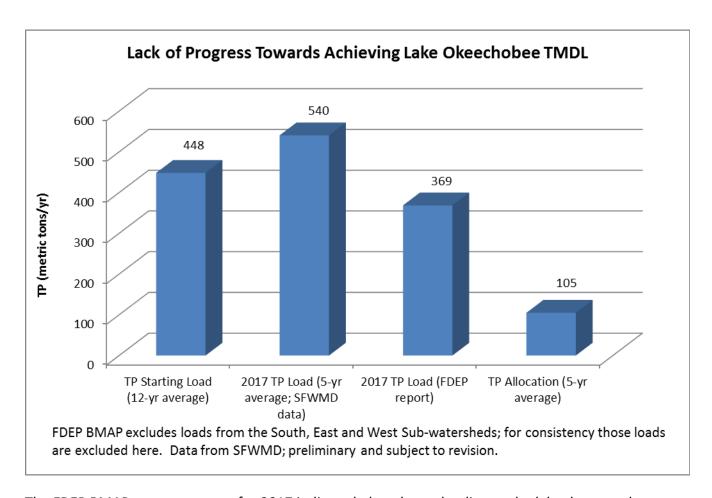


Sub-watershed	Basins
Upper Kissimmee	Upper Kissimmee
Lower Kissimmee	Kissimmee River Valley
Taylor Creek/Nubbin Slough	S-154, S-154C, S-191, S-133, S-135
Fisheating Creek/Nico. Slough	Fish Easting Creek, Nicodemus Slough
Indian Prairie	Arbuckle Creek, Josephine Creek, Lake Istokpoga
Lake Istokpoga	Indian Prairie
East Lake Okeechobee	L-8, C-44 (St. Lucie Canal)
South Lake Okeechobee	S-2, S-3, S-5A, Ch. 298 Districts, S-4/Industrial Canal
West Lake Okeechobee	East Caloosahatchee River

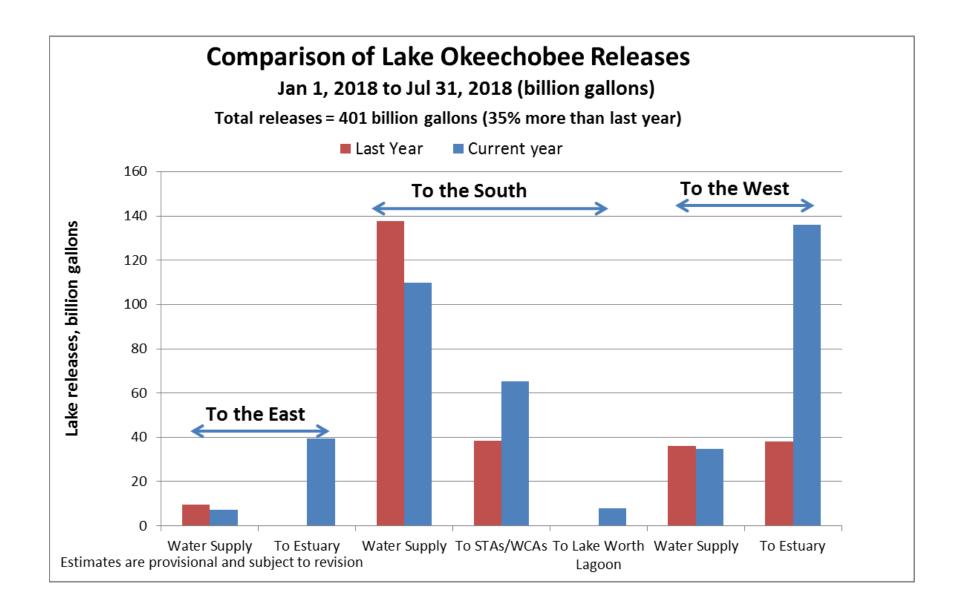


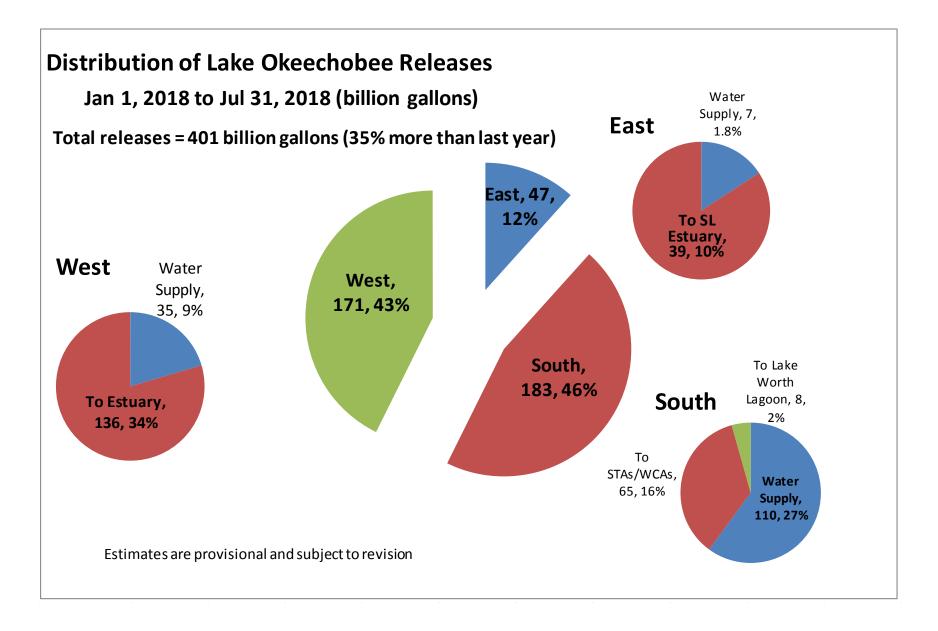


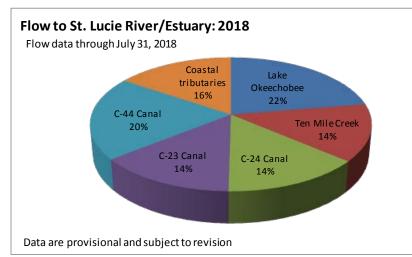


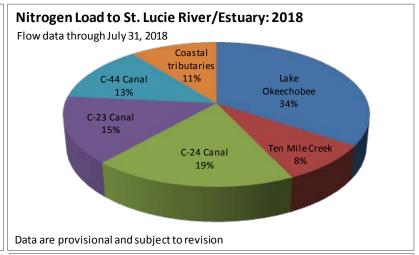


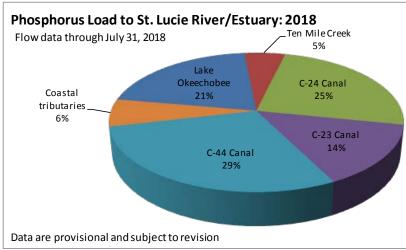
The FDEP BMAP progress report for 2017 indicated phosphorus loading to the lake decreased – yet this claim conflicts with the measured loads to the lake, e.g., the 5-yr average annual load in 2017 was almost 50% higher than reported by FDEP and was about 20 percent higher than the "starting period" used by FDEP.

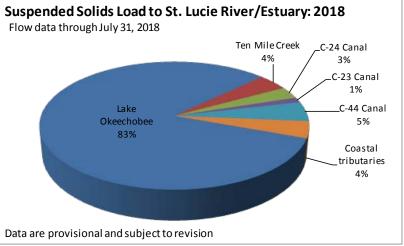


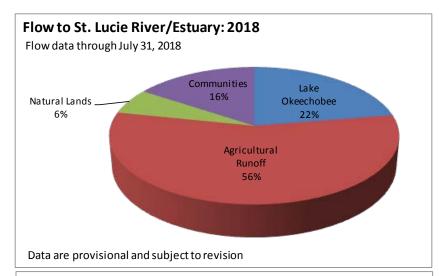


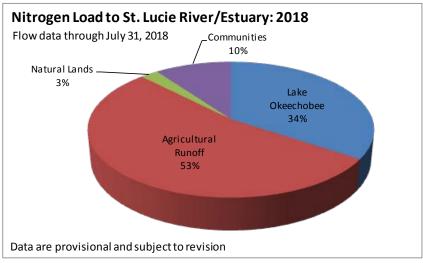


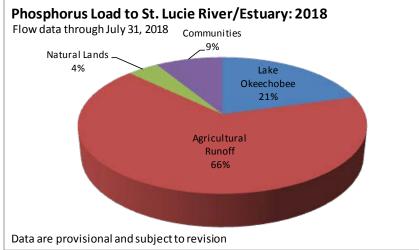


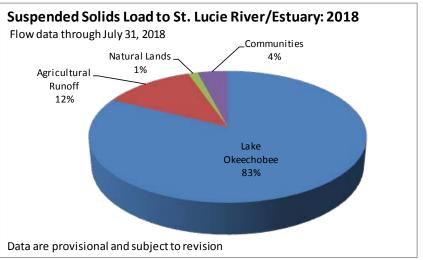












Data are preliminary and subject to revision

Preliminary estimates of flows and loads to the St. Lucie Estuary – through July 31, 2018

2018	Flow, Billion	TN loads,	TP loads,	TSS loads,	TN conc	TP conc	TSS conc
Source	Gallons	pounds	pounds	pounds	ppb	ppb	ppb
Lake Okeechobee	39.3	624,727	75,023	26,544,265	1,904	229	80,879
Ten Mile Creek	24.2	156,558	18,933	1,345,082	774	94	6,652
C-24 Canal	24.6	339,017	88,767	978,874	1,652	432	4,769
C-23 Canal	24.7	272,133	52,003	411,719	1,322	253	2,000
C-44 Canal	35.4	233,036	104,603	1,603,211	789	354	5,430
Coastal tributaries	27.3	194,181	23,193	1,358,514	853	102	5,964
Total	175.5	1,819,650	362,522	32,241,665	1,242	248	22,015
Lake Okeechobee	39.3	624,727	75,023	26,544,265	1,904	229	80,879
Agricultural Runoff	98.0	969,846	240,659	3,969,576	1,186	294	4,854
Natural Lands	10.6	42,533	14,969	421,301	479	169	4,746
Communities	27.5	182,545	31,870	1,306,523	794	139	5,684
Total	175.5	1,819,650	362,522	32,241,665	1,242	248	22,015

Preliminary estimates of flows and loads to the Caloosahatchee Estuary – through July 31, 2018

2018	Flow	Total Nitrogen Load	Total Phosphorus Load	Total Suspended Solids Load	Total Nitrogen Conc	Total Phosphorus Conc	Total Suspended Solids Conc	
Source	Billion Gallons	pounds	pounds	pounds	ppb	ppb	ppb	
Lake Okeechobee	136.0	1,579,279	226,109	10,330,012	1,391	199	9,100	
C-43 Basin	166.0	2,378,698	277,077	0	1,718	200	0	
Total	302.0	3,957,977	503,186	10,330,012	1,571	200	2,116	

Note: Zero load values indicate sedimentation within canals

Data are preliminary and subject to revision

This period: Begin End Duration (days)

July 31, 2018 January 1, 2018 July 31, 2018 212

Data and calculations are DRAFT and subject to revision.

		This per	riod		1 year earlier Difference with 1 year ago							
Hydrologic Unit	Total To Lake, AF	From Lake, AF	Total Runoff and Other, AF	Lake inflow as % of total	Total To Lake, AF	From Lake, AF	Total Runoff and Other, AF	Lake inflow as % of total	Total To Lake, AF	From Lake, AF	Total Runoff and Other, AF	% Change in Flows from Lake
Miami Canal	0	180,142	164,938	52%	7,895	168,501	150,509	53%	-7,895	11,641	14,428	7%
NNR/Hillsboro Canal	24	222,800	373,820	37%	45,763	204,124	368,816	36%	-45,739	18,675	5,004	9%
WPB Canal	0	104,285	171,792	38%	1,896	110,790	128,278	46%	-1,896	-6,505	43,515	-6%
L-8 Canal	51,222	54,366	91,071	37%	51,183	57,514	47,275	55%	39	-3,148	43,796	-5%
STA-1E	N/A	20,761	76,303	21%	N/A	12,618	62,767	17%	N/A	8,143	13,536	65%
STA-1W	N/A	10,637	84,926	11%	N/A	10,207	87,520	10%	N/A	430	-2,594	4%
STA-2	N/A	31,933	206,844	13%	N/A	23,750	183,678	11%	N/A	8,183	23,167	34%
STA-3/4 & EAA A-1 FEB	N/A	136,405	394,326	26%	N/A	71,693	297,104	19%	N/A	64,712	97,222	90%
STA-5/6	N/A	0	66,250	TBD	N/A	0	41,337	TBD	N/A	0	24,913	
Holey Land WMA	N/A	7	1,058	1%	N/A	0	504	0%	N/A	7	554	
Rotenberger WMA (Note 1)	N/A	0	11,490	0%	N/A	0	4,469	0%	N/A	0	7,021	
WCA-1 (diversion)	N/A	0	0	0%	N/A	0	0	0%	N/A	0	0	
WCA-2A (diversion)	N/A	0	0		N/A	0	0	0%	N/A	0	0	
WCA-3A (diversion)	N/A	60	0		N/A	0	0	7%	N/A	60	0	304100%
Lake Worth Lagoon	N/A	24,525	308,091	7%	N/A	185	86,154	0%	N/A	24,340	221,938	13168%
City of WPB	N/A	32,293	3,748	90%	N/A	26,650	17,069	61%	N/A	5,643	-13,322	21%
C-51 Basin	N/A	31,543	208,774	13%	N/A	13,809	19,122	TBD	N/A	17,734	189,652	128%
Other basins to Lake	549,158				310,695				238,463			77%
Total to Lake	600,404				417,432				182,972			44%
Total to STAs		199,736	828,649	19%		118,268	672,405	15%		81,468	156,245	69%
Total to WMAs		7	12,548	0%		0	4,973	0%		7	7,575	
Total diverted to WCAs		60	0	100%		0	1	2%		60	-1	304100%
Total to WCAs		199,803	841,197	19%		118,268	677,378	15%		81,536	163,819	69%
Total from Lake to EAA & L-8		561,592				540,930				20,662		4%
Total EAA runoff and other			801,621				694,878				106,743	

Note 1. Inflow to Rotenberger consists primarily of treated discharges from the STAs - not stormwater runoff.

Percent of STA inflow 19% 81% 15% 85%

