INDIAN PRAIRIE - L-60W BASIN TECHNICAL SHEET			
Subwatershed: Indian Prairie			
Basin: L-60W	**Flow Issues[1]:** Maybe	**Water Quality Issues[2]:** Maybe	

Monitored Structure(s): G76

Inflow loads:

Acreage: 3,453

Percentage of Subwatershed Acreage: 1%

Percentage of Lake Okeechobee Watershed: 0.1%

[1]Flow Issues:

- Prior to WY1995 flows were estimated and no flow measurements were collected between WY1995 and WY2001; therefore, comparisons cannot be made between the pre and post-protection plan periods.

- This basin contributed 1% of the flows to the subwatershed in the post-protection plan period.

- There was a statistically significant increasing trend in flow during the post-protection plan period. Continued monitoring is recommended.

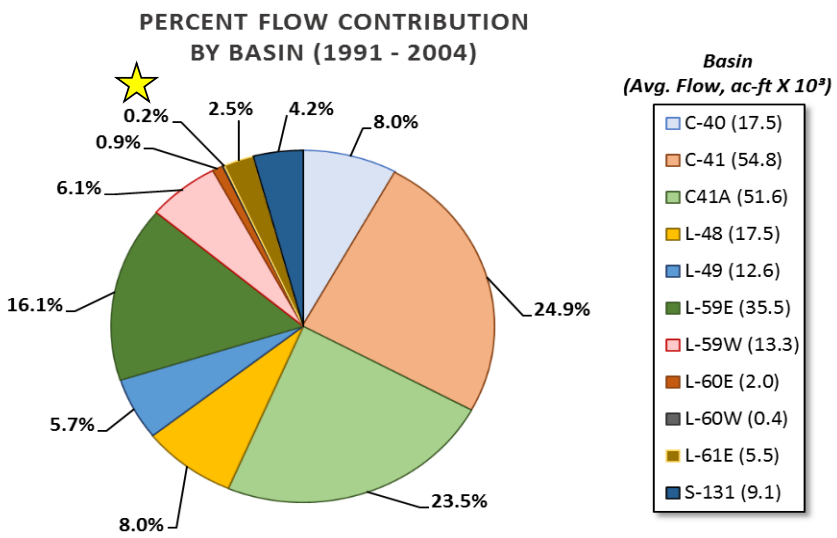
- Flow and load estimates were based on samples and measurements taken at major structures within the regional system.

[2]Water Quality Issues:

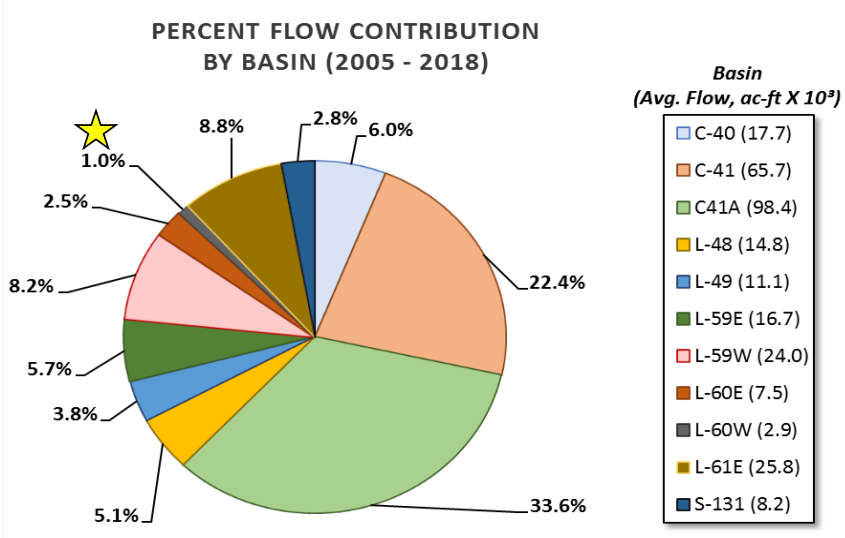
-There appeared to be increases in total phosphorus (TP) flow-weighted mean concentrations (FWMC) and loads between pre and post-protection plans periods but unable to determine if this increase is due to the missing or estimated flow measurements in the pre-protection period or another factor.

- This basin had relatively low TP FWMC (169 µg/L during the post-protection plan period).

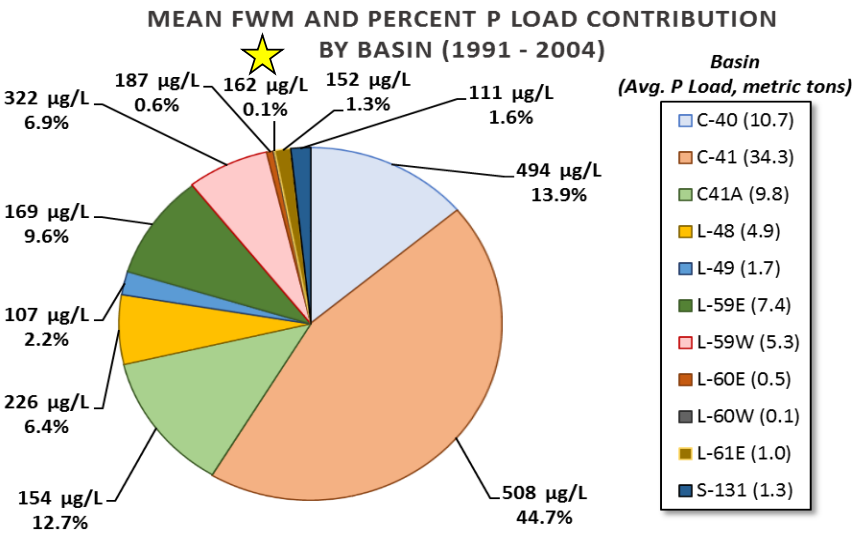
Pre-Protection Plan Flows



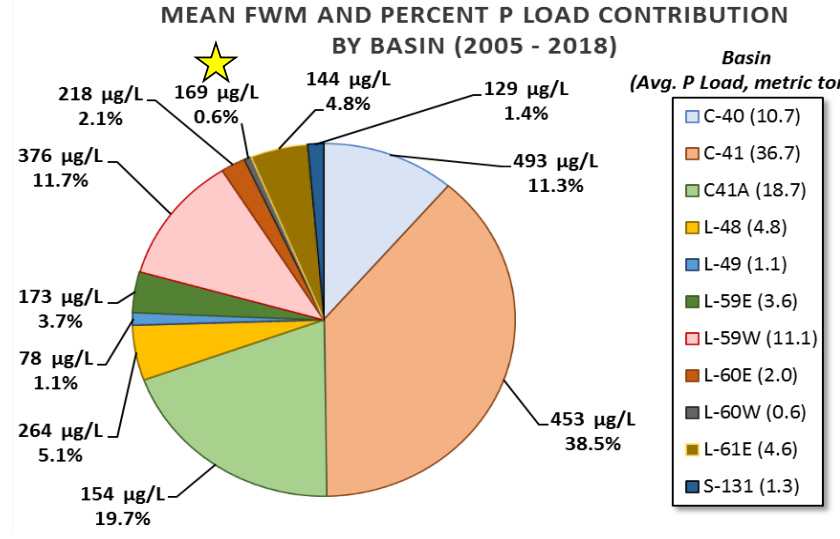
Post-Protection Plan Flows



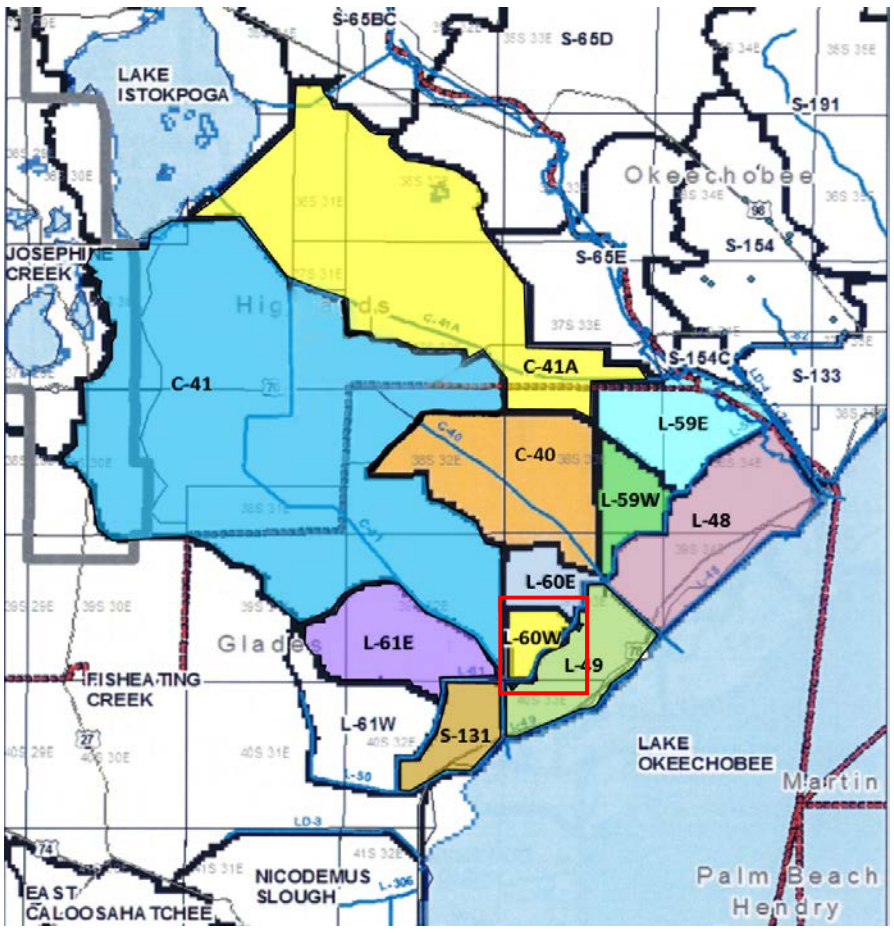
Pre-Protection Plan Loads

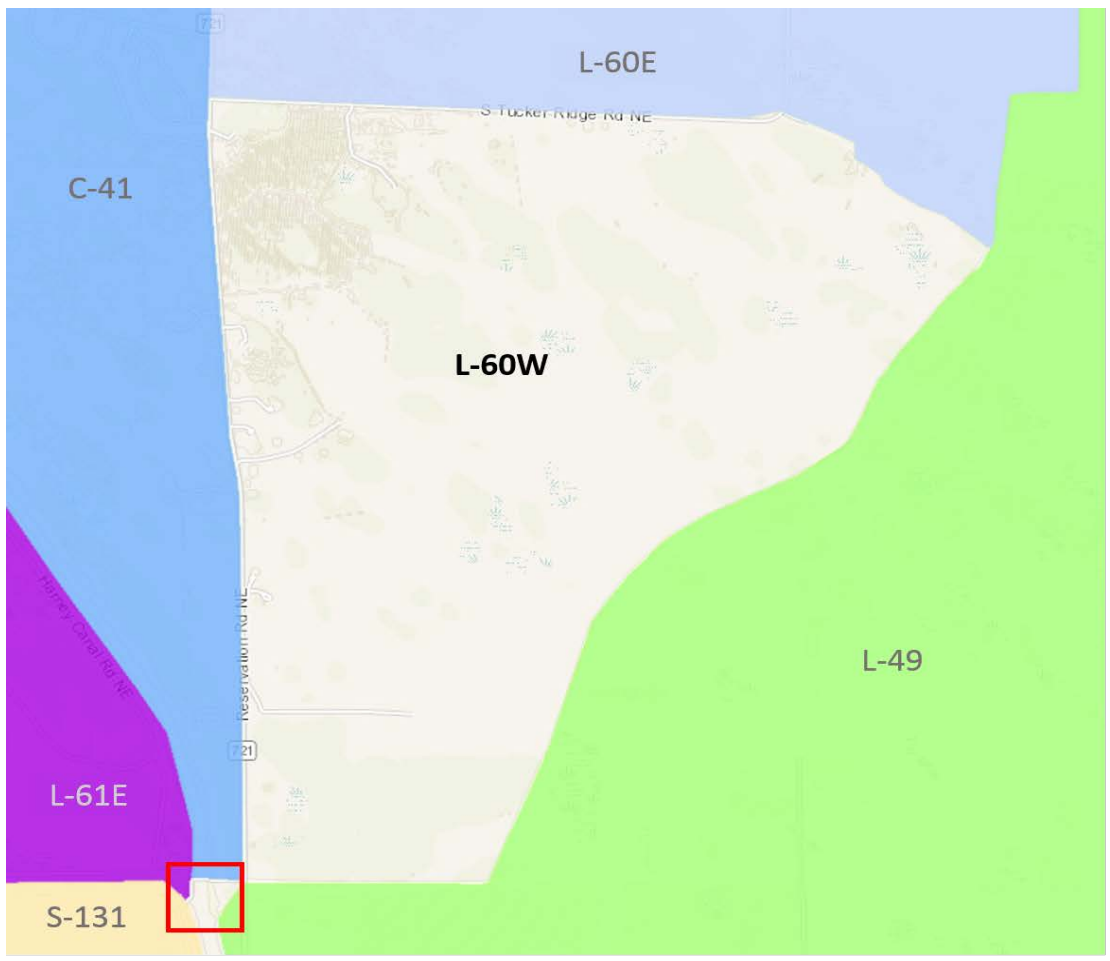


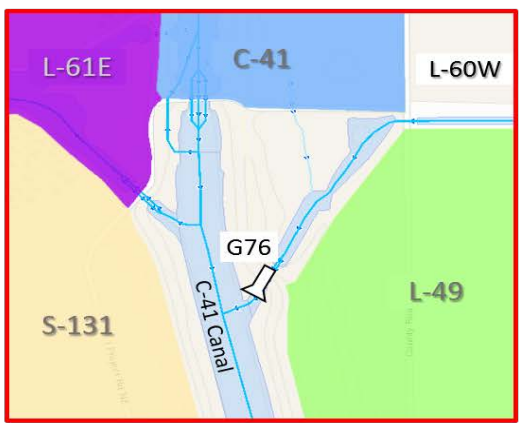
Post-Protection Plan Loads

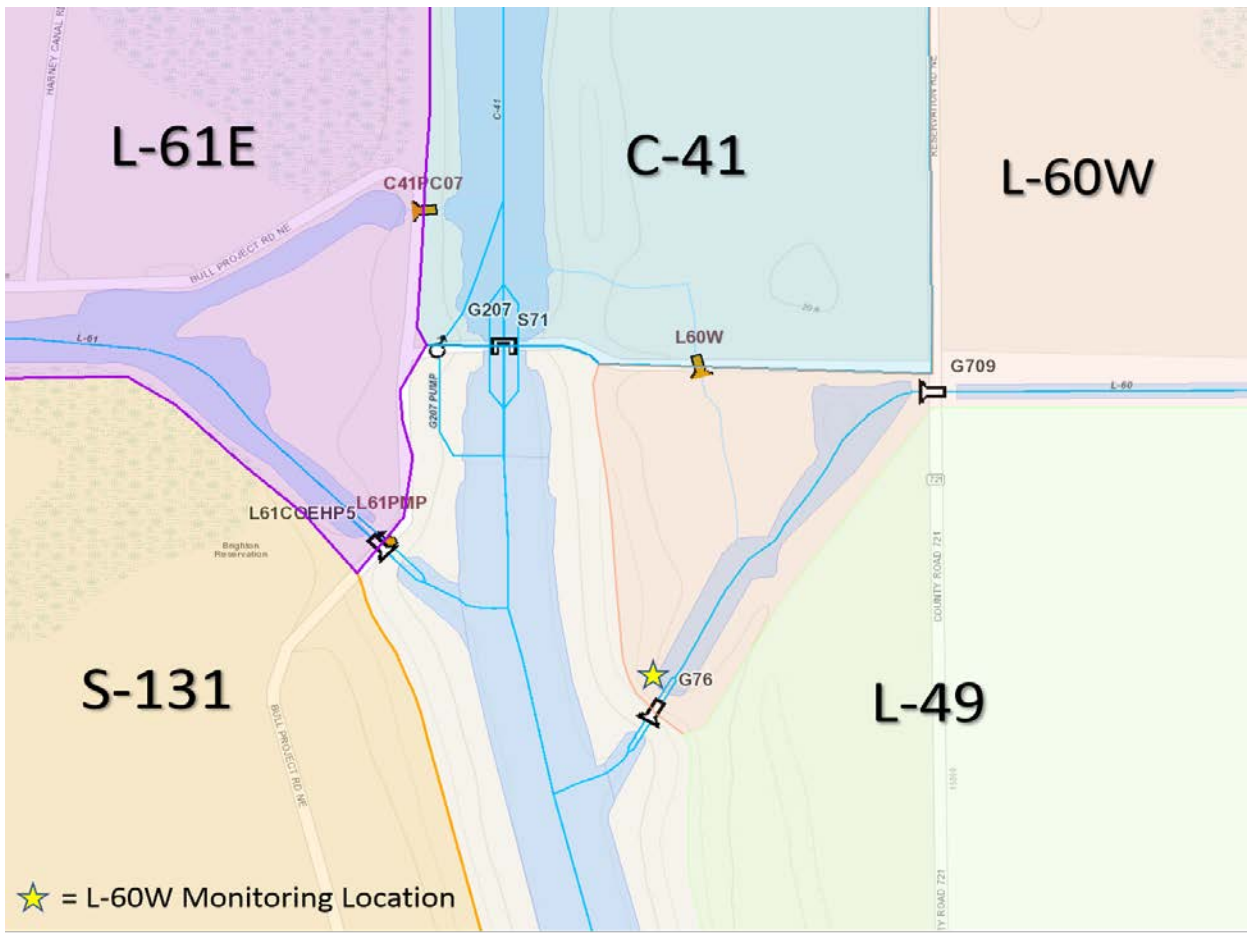


L-60W BASIN - MAP









L-60W BASIN - STATISTICS

Summary Statistics				
	Period of Record	Pre-Protection Plan	Post-Protection Plan	
	WY1991-WY2018	WY1991-WY2004	WY2005-WY2018	
Averages				
Avg. Flow (acft/yr)	2,075	377	2,924	
Avg. Load (mt/yr)	0.43	0.08	0.61	
FWMC (ug/L)	168	162	169	
Avg. UAL (lbs/acre/yr)	0.28	0.05	0.39	
Medians				**Mann-Whitney Results p-values[3]**
Median Flow (acft/yr)	2,374	428	2,987	0.0010
Median Load (mt/yr)	0.47	0.07	0.56	0.0010
Median FWMC (ug/L)	155	163	148	0.8230
Median UAL (lbs/acre/yr)	0.30	0.04	0.36	0.0008

Highlighted cells indicate statistical significance

[3]The Mann-Whitney test is a non-parametric test alternative to the two sample t-test. It is used to test the equality around the central tendency of two data sets (pre-protection plan period and post-protection plan period). A p-value of less than 0.05 indicates that a significant difference between pre-protection plan period and post-protection plan period exists. A comparison of the median values identifies which period is higher. A median is a value at the mid-point of a distribution of observed data.

Sub-watershed Indian Prairie - Seasonal Kendall τ Results for Total Monthly Flow (ac-ft) by Basin over Three Water Year Ranges

Sub-watershed/*Basin*	1991-2018					1991-2004					2005-2018				
	% Missing Months	Kendall's τ	Sen Slope	Intercept	p-value	% Missing Months	Kendall's τ	Sen Slope	Intercept	p-value	% Missing Months	Kendall's τ	Sen Slope	Intercept	p-value
L-60W Basin	***31.5%***	***0.258***	***4.00***	***-11***	***<0.001***	63.1%	-0.137	-0.47	35	0.247	***0.0%***	***0.257***	***5.79***	***68***	***<0.001***

Sub-watershed Indian Prairie - Seasonal Kendall τ Results for Total Monthly P Load (kg) by Basin over Three Water Year Ranges

Sub-watershed/*Basin*	1991-2018					1991-2004					2005-2018				
	% Missing Months	Kendall's τ	Sen Slope	Intercept	p-value	% Missing Months	Kendall's τ	Sen Slope	Intercept	p-value	% Missing Months	Kendall's τ	Sen Slope	Intercept	p-value
L-60W Basin	***31.5%***	***0.253***	***0.64***	***-1***	***0.003***	63.1%	-0.069	-0.14	6	0.596	***0.0%***	***0.265***	***0.92***	***9***	***<0.001***

Sub-watershed Indian Prairie - Seasonal Kendall τ Results for Monthly FWM TP (µg/L) by Basin over Three Water Year Ranges

Sub-watershed/*Basin*	1991-2018					1991-2004					2005-2018				
	% Missing Months	Kendall's τ	Sen Slope	Intercept	p-value	% Missing Months	Kendall's τ	Sen Slope	Intercept	p-value	% Missing Months	Kendall's τ	Sen Slope	Intercept	p-value
L-60W Basin	40.5%	-0.040	0	145	0.622	64.3%	0.309	4	128	0.107	16.7%	-0.041	-1	142	0.654

Italic red font cells indicate statistical significance

Note: The Seasonal Kendall Tau analyzes data for monotonic trends (consistent upward or downward trend) and accounts for seasonality. Typically monthly data are used to identify seasons. Probability values (p-values) are derived from the tau-statistic which identifies the direction of the trend. A p-value less than 0.05 detects statistically significant trends for a period of interest. The Sen Slope provides an indication of the magnitude of the observed trend.