

SIMPLE-Monthly Pollutant Loading Model Results - Holiday Bayou TN

Section 1	TN Loading has decreased by 21% from 2001-2016
Section 2	Irrigation was the component that saw the greatest decrease in loading from 2001-2016 (-83%)
Section 3	Stormwater Runoff is the greatest contributor to TN in the Holiday Bayou, contributing 67% of the total load.
Section 3	Holiday Bayou is not a major TN contributor to the Little Sarasota Bay watershed.

Section 1

Holiday Bayou

Total Nitrogen

Pollutant Loading Trend		Decrease	-21%	2001 to 2016
Components of the Trend				
	Stormwater Runoff	No Change	0%	2001 to 2016
	Baseflow	No Change	0%	2001 to 2016
	Septic Systems	Decrease	-73%	2001 to 2016
	Point Source	No Change	0%	2001 to 2016
	Irrigation	Decrease	-83%	2001 to 2016
	Atmospheric Deposition	Not Modeled		2001 to 2016

Year	Total	Runoff	Baseflow	Septic	Point Source	Irrigation	Atmospheric
2001	54.51	29.08	7.77	15.44	105.84	12.97	0.00
2006	54.61	29.08	7.77	15.54	0.00	2.22	0.00
2011	49.31	29.08	7.77	10.23	0.00	2.22	0.00
2016	43.27	29.08	7.77	4.19	0.00	2.22	0.00

Units are pounds per year and modeled using a typical rainfall year.
Jones Edmunds and Associates conducted this modeling for Sarasota County in 2017.
Modeling was conducted only for the parts of basins located within Sarasota County.
Pollutant loading from Atmospheric Deposition (wet and dry) was conducted only for bays.

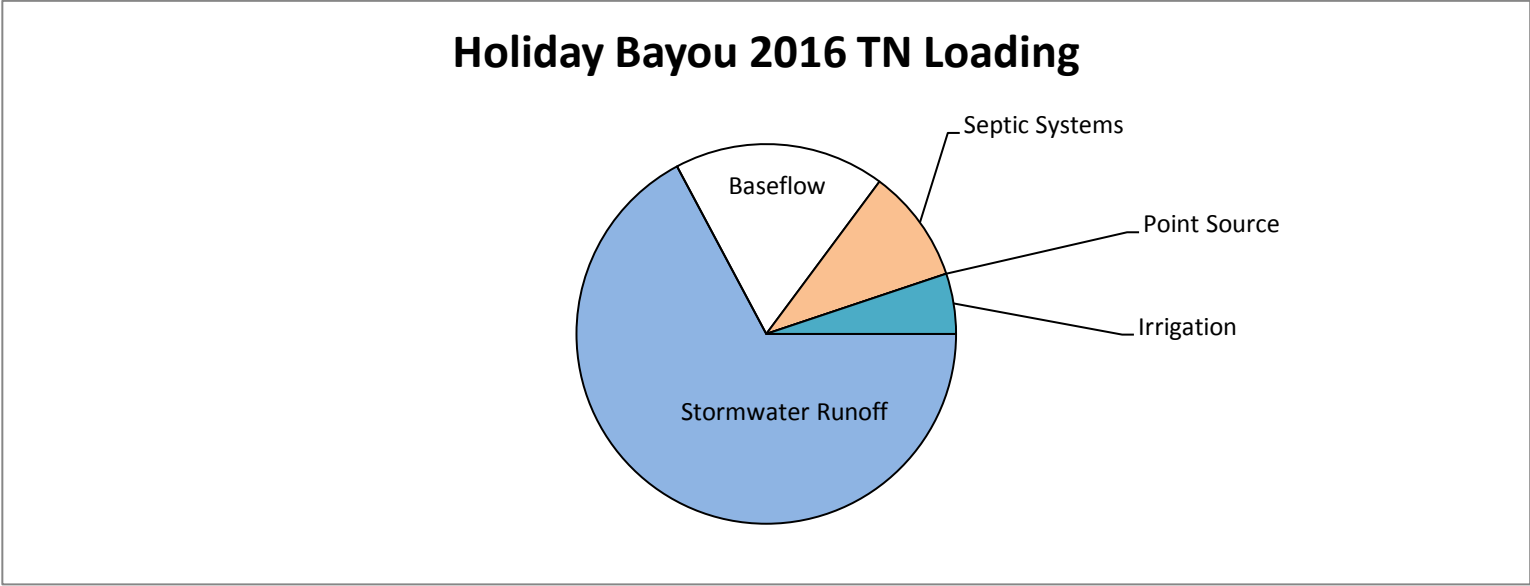
Section 2

Holiday Bayou

Total Nitrogen

2016 Pollutant loading is influenced by some sources more than others

Stormwater Runoff	67%
Baseflow	18%
Septic Systems	10%
Point Source	0%
Irrigation	5%
Atmospheric Deposition	Not Modeled



Section 3

Holiday BayouTotal Nitrogen

2016 Pollutant loading to the Little Sarasota Bay watershed has more than one source
Proportion of loading is Low when % load is compared to % acreage.
Holliday Bayou acreage is 2% and % loading is 0%

Holiday Bayou is a part of the Little Sarasota Bay watershed

	Pounds TN 2016	Acreage
Little Sarasota Bay watershed	23,815	10,552

The following basins contribue to the loading to the Little Sarasota Bay watershed

	Pounds TN 2016	% of Watershed Load	Acreage	% of Little Sarasota Bay watershed
Catfish Creek	14,057	59%	3,984	38%
Clower Creek	71	0%	284	3%
Elligraw Bayou	196	1%	473	4%
Holiday Bayou	43	0%	201	2%
Little Sarasota Bay Coastal	799	3%	867	8%
North Creek	3,358	14%	2,327	22%
Siesta Key Little Sar. Bay	133	1%	429	4%
Little Sarasota Bay	5,079	21%	1,851	18%
Casey Key Little Sar. Bay	77	0%	137	1%

