

SIMPLE-Monthly Pollutant Loading Model Results - Lemon Bay Basin TN

Section 1	TN Loading has decreased by 65% from 2001-2016
	Septic System input was the component that saw the greatest increasing in loading from 2001-2016 (+756%)
Section 2	Atmospheric Deposition is the greatest contributor to TN in Lemon Bay Basin, contributing 98% of the total load.
Section 3	Lemon Bay Basin is not major TN contributor to the Lemon Bay watershed.

Section 1
Lemon Bay Basin

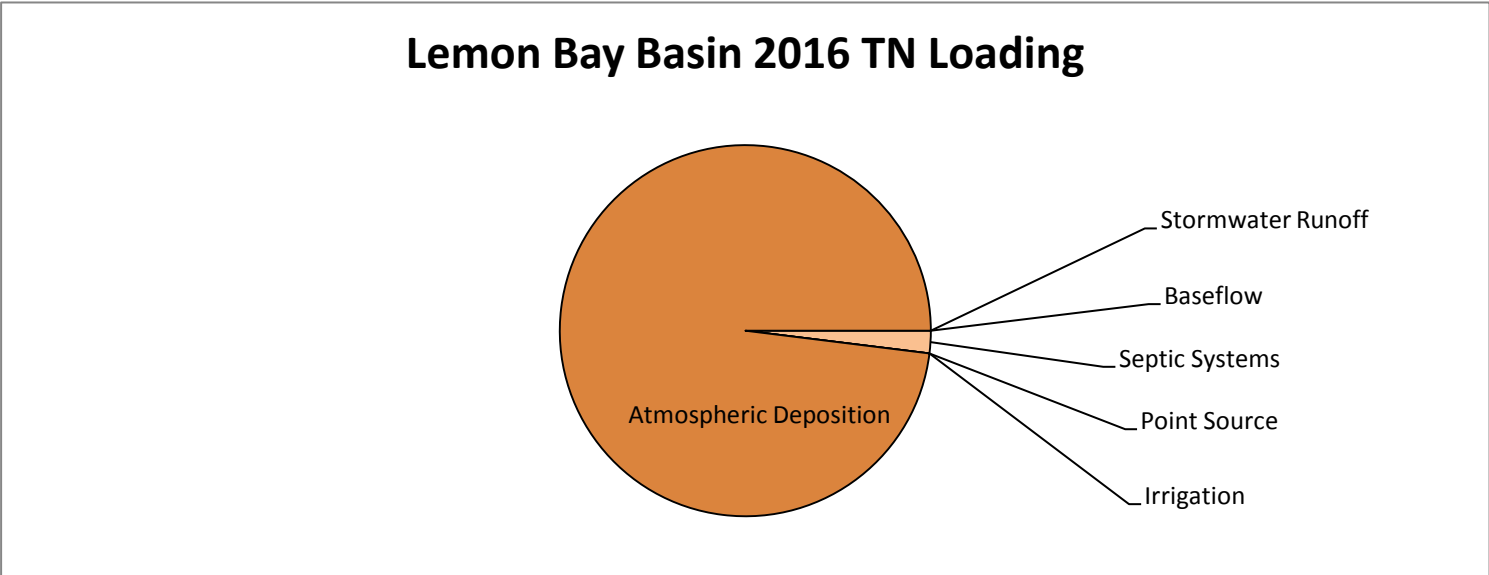
		Total Nitrogen	
Pollutant Loading Trend		Decrease	-65% 2001 to 2016
	Stormwater Runoff		Cannot calculate 2001 to 2016
Components of the Trend	Baseflow		Cannot calculate 2001 to 2016
	Septic Systems	Increase	752% 2001 to 2016
	Point Source		Cannot calculate 2001 to 2016
	Irrigation		Cannot calculate 2001 to 2016
	Atmospheric Deposition	No change	0% 2001 to 2016

Year	Total	Runoff	Baseflow	Septic	Point Source	Irrigation	Atmospheric
2001	6925.74	0.00	0.00	5.51	0.00	0.00	2350.13
2006	21175.14	0.00	0.00	46.92	0.00	0.00	21128.23
2011	2587.50	0.00	0.00	46.92	0.00	0.00	2540.58
2016	2397.04	0.00	0.00	46.92	0.00	0.00	2350.13

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
Lemon Bay Basin

		Total Nitrogen
2016 Pollutant loading is influenced by some sources more than others		
Stormwater Runoff		0%
Baseflow		0%
Septic Systems		2%
Point Source		0%
Irrigation		0%
Atmospheric Deposition		98%



Section 3

Lemon Bay BasinTotal Nitrogen

2016 Pollutant loading to the Lemon Bay Watershed has more than one source
Proportion of loading is Low when % load is compared to % acreage.
Lemon Bay acreage is 7% and % loading is 0%

Lemon Bay Basin is a part of the Lemon Bay Watershed

	Pounds TN 2016	Acreage
Lemon Bay Watershed	37,068	32,369

The following basins contribue to the loading to the Lemon Bay Watershed

	Pounds TN 2016	% of Watershed Load	Acreage	% of Lemon Bay Watershed
Ainger Creek Basin	3,359	9%	5,555	17%
Alligator Creek Basin	15,155	41%	6,787	21%
Woodmere Creek Basin	877	2%	1,475	5%
Forked Creek Basin	5,775	16%	5,863	18%
Gottfried Creek Basin	7,372	20%	7,019	22%
Coastal Lemon Bay	2,019	5%	2,658	8%
Manasota Key	114	0%	697	2%
Lemon Bay	2,397	0%	2,316	7%

