

SIMPLE-Monthly Pollutant Loading Model Results - Forked Creek TN

Section 1	TN Loading has decreased by 6% from 2001-2016
	Irrigation Systems were the components that saw the greatest increase in loading from 2001-2016 (+53%)
Section 2	Stormwater Runoff is the greatest contributor to TN in the Forked Creek Basin, contributing 69% of the total load.
Section 3	Forked Creek is not a major TN contributor to the Lemon Bay watershed.

Section 1
Forked Creek

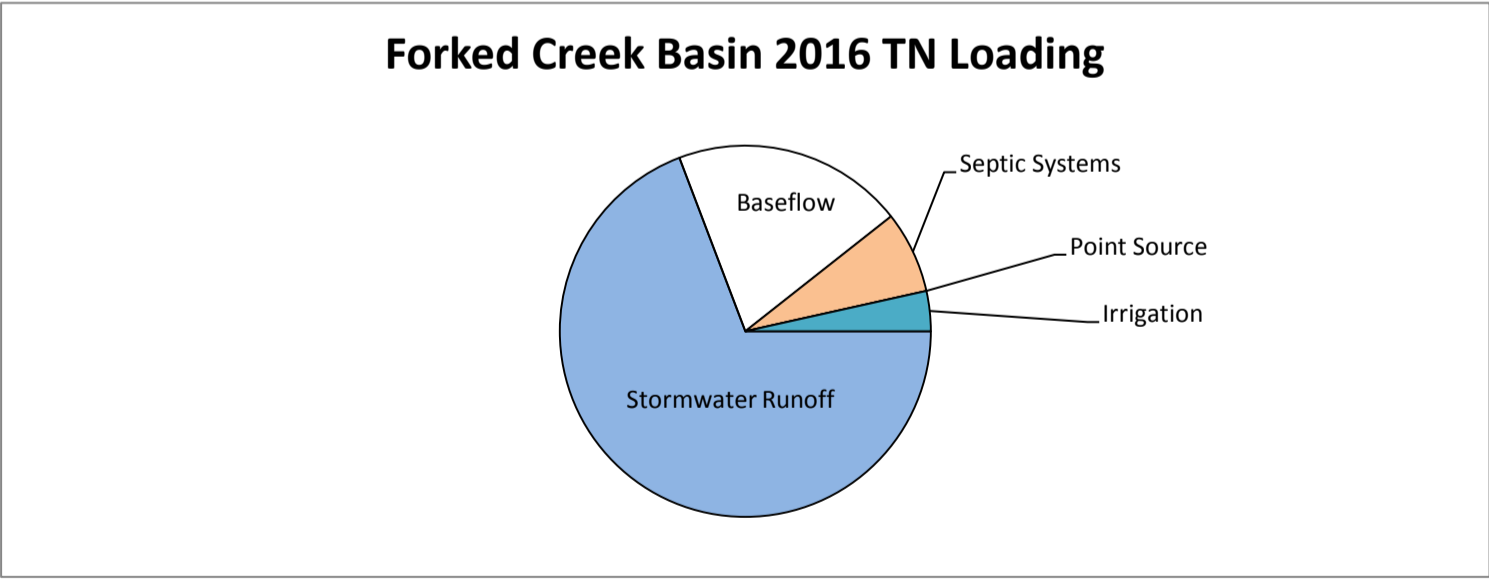
		Total Nitrogen	
Pollutant Loading Trend		Decrease	-6% 2001 to 2016
Components of the Trend			
	Stormwater Runoff	Increase	3% 2001 to 2016
	Baseflow	Increase	4% 2001 to 2016
	Septic Systems	Decrease	-58% 2001 to 2016
	Point Source	No Change	0% 2001 to 2016
	Irrigation	Increase	53% 2001 to 2016
	Atmospheric Deposition	Not Modeled	2001 to 2016

Year	Total	Runoff	Baseflow	Septic	Point Source	Irrigation	Atmospheric
2001	6134.04	3877.95	1124.67	971.67	80.01	131.51	0.00
2006	5707.37	3942.38	1142.67	446.70	0.00	175.63	0.00
2011	5766.26	3977.55	1158.47	444.01	15.21	171.02	0.00
2016	5774.60	3996.98	1164.37	411.83	0.00	201.43	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
Forked Creek

		Total Nitrogen
2016 Pollutant loading is influenced by some sources more than others		
	Stormwater Runoff	69%
	Baseflow	20%
	Septic Systems	7%
	Point Source	0%
	Irrigation	3%
	Atmospheric Deposition	Not Modeled



Section 3

Forked CreekTotal 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.
Forked Creek Basin acreage is 18% and % loading is 16%

Forked Creek 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%

