

SIMPLE-Monthly Pollutant Loading Model Results - Gottfried Creek TN

Section 1	TN Loading has experience no change (0%) from 2001-2016 Stormwater Runoff and Baseflow were the components that saw the greatest increase in loading from 2001-2016 (+1%)
Section 2	Stormwater Runoff is the greatest contributor to TN in the Gottfried Creek Basin, contributing 72% of the total load.
Section 3	Gottfried Creek is not a major TN contributor to the Lemon Bay watershed.

Section 1  
Gottfried Creek

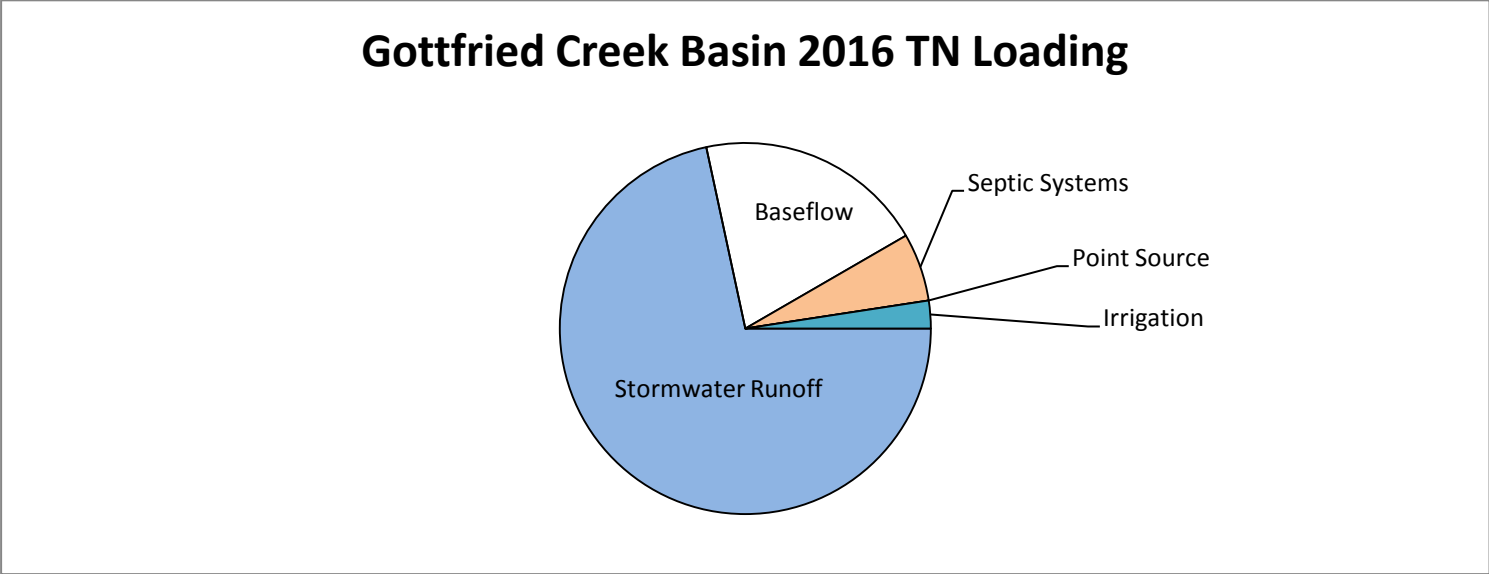
		Total Nitrogen		
Pollutant Loading Trend		No Change	0%	2001 to 2016
	Components of the Trend			
	Stormwater Runoff	Increase	1%	2001 to 2016
	Baseflow	Increase	1%	2001 to 2016
	Septic Systems	Decrease	-1%	2001 to 2016
	Point Source	No Change	0%	2001 to 2016
	Irrigation	No Change	0%	2001 to 2016
	Atmospheric Deposition	Not Modeled		2001 to 2016

Year	Total	Runoff	Baseflow	Septic	Point Source	Irrigation	Atmospheric
2001	7360.59	5209.07	1457.13	441.14	38.40	177.85	0.00
2006	7309.47	5247.33	1466.35	435.91	0.00	159.88	0.00
2011	7340.34	5265.32	1471.01	437.11	0.00	166.90	0.00
2016	7372.46	5280.38	1476.87	437.11	0.00	178.10	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  
Gottfried Creek

		Total Nitrogen
2016 Pollutant loading is influenced by some sources more than others		
Stormwater Runoff	72%	
Baseflow	20%	
Septic Systems	6%	
Point Source	0%	
Irrigation	2%	
Atmospheric Deposition	Not Modeled	



Section 3

Gottfried 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.  
Gottfried Creek Basin acreage is 22% and % loading is 20%

Gottfried 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%

