

## SIMPLE-Monthly Pollutant Loading Model Results - Matheny Creek TN

**Section 1** TN Loading has decreased by 10% from 2001-2016.  
**Section 2** Point Source input was the component that saw the greatest decrease in loading from 2001-2016 (-99%)  
**Section 3** Stormwater Runoff is the greatest contributor to TN in Matheny Creek, contributing 83% of the total load.  
 Matheny Creek is not a major TN contributor to the Roberts Bay watershed.

### Section 1 Matheny Creek

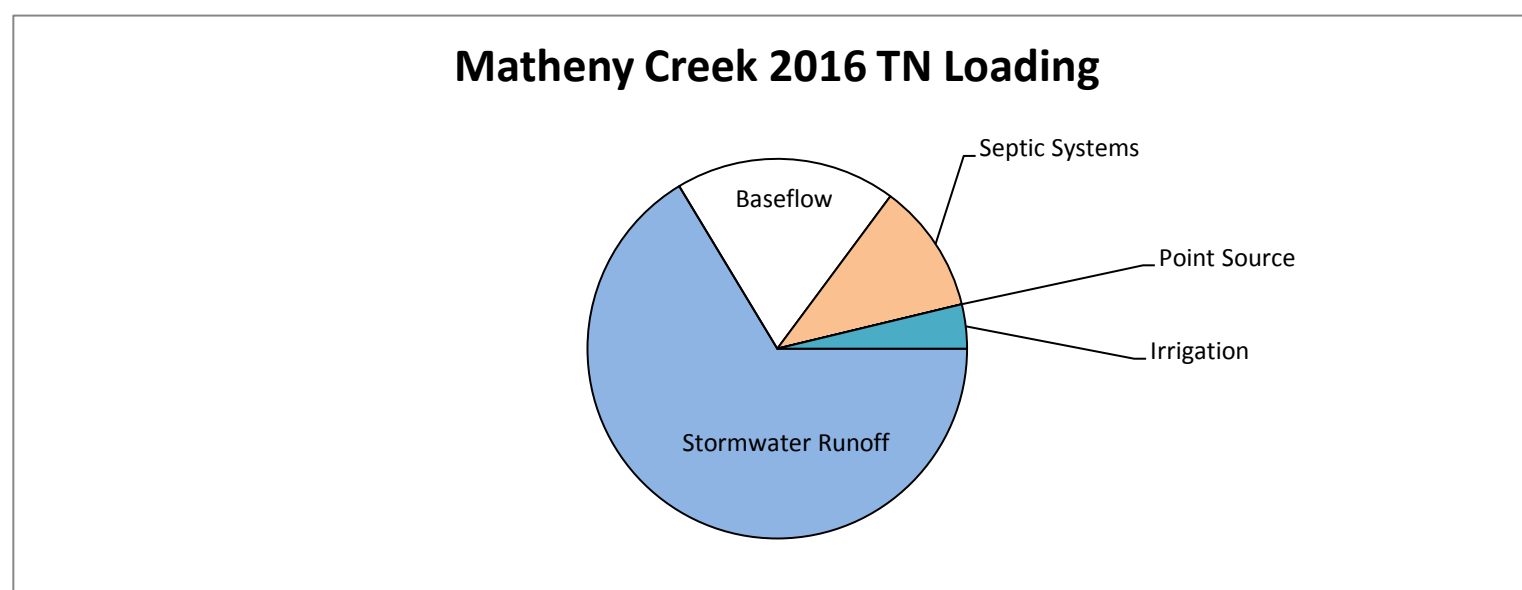
		Total Nitrogen		
Pollutant Loading Trend		Decrease	-10%	2001 to 2016
Components of the Trend	Stormwater Runoff	No Change	0%	2001 to 2016
	Baseflow	No Change	0%	2001 to 2016
	Septic Systems	Decrease	-49%	2001 to 2016
	Point Source	Decrease	-99%	2001 to 2016
	Irrigation	Decrease	-88%	2001 to 2016
	Atmospheric Deposition	Not Modeled		2001 to 2016

Year	Total	Runoff	Baseflow	Septic	Point Source	Irrigation	Atmospheric
2001	943.07	564.63	160.02	183.74	4.85	271.37	0.00
2006	929.44	564.63	160.02	172.79	0.01	31.99	0.00
2011	1538.56	0.00	0.00	1182.17	0.00	356.39	0.00
2016	850.89	564.63	160.02	94.23	0.03	31.99	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 Matheny Creek

		Total Nitrogen	
2016 Pollutant loading is influenced by some sources more than others			
Stormwater Runoff		66%	
Baseflow		19%	
Septic Systems		11%	
Point Source		0%	
Irrigation		4%	
Atmospheric Deposition		Not Modeled	



### Section 3

#### Matheny Creek

#### Total Nitrogen

2016 Pollutant loading to the Roberts Bay watershed has more than one source

Proportion of loading is **Low** when % load is compared to % acreage.  
Matheny Creek acreage is 4% and % loading is 0%

Matheny Creek is a part of the Roberts Bay watershed

	Pounds TN 2016	Acreage
Roberts Bay watershed	291,564	41,893

The following basins contribute to the loading to the Roberts Bay watershed

	Pounds TN 2016	% of Watershed Load	Acreage	% of Roberts Bay watershed
Matheny Creek	851	0%	1,724	4%
Phillippi Creek	287,826	99%	35,408	85%
Roberts Bay	580	0%	1,179	3%
Roberts Bay Costal	656	0%	1,546	4%
Siesta Key Roberts Bay	1,652	1%	2,037	5%

