

SIMPLE-Monthly Pollutant Loading Model Results - Catfish Creek TN

Section 1 TN Loading has decreased by 1% from 2001-2016
 Irrigation Systems was the component that saw the greatest increase in loading from 2001-2016 (+251%)

Section 2 Stormwater Runoff is the greatest contributor to TN in the Catfish Creek Basin, contributing 65% of the total load.

Section 3 Catfish Creek is a major TN contributor to the Little Sarasota Bay watershed.

Section 1

Catfish Creek

Pollutant Loading Trend
 Components of the Trend

Total Nitrogen

Increase	-1%	2001 to 2016
Stormwater Runoff	Increase	2%
Baseflow	Increase	1%
Septic Systems	Decrease	-17%
Point Source	No Change	0%
Irrigation	Increase	251%
Atmospheric Deposition	Not Modeled	2001 to 2016

Year	Total	Runoff	Baseflow	Septic	Point Source	Irrigation	Atmospheric
2001	14194.15	8993.44	2720.86	2081.41	0.00	105.67	0.00
2006	14288.59	9083.20	2740.95	2058.24	48.91	357.29	0.00
2011	14114.98	9116.19	2743.04	1841.51	35.86	378.38	0.00
2016	14057.22	9138.95	2744.61	1731.28	71.03	371.34	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.

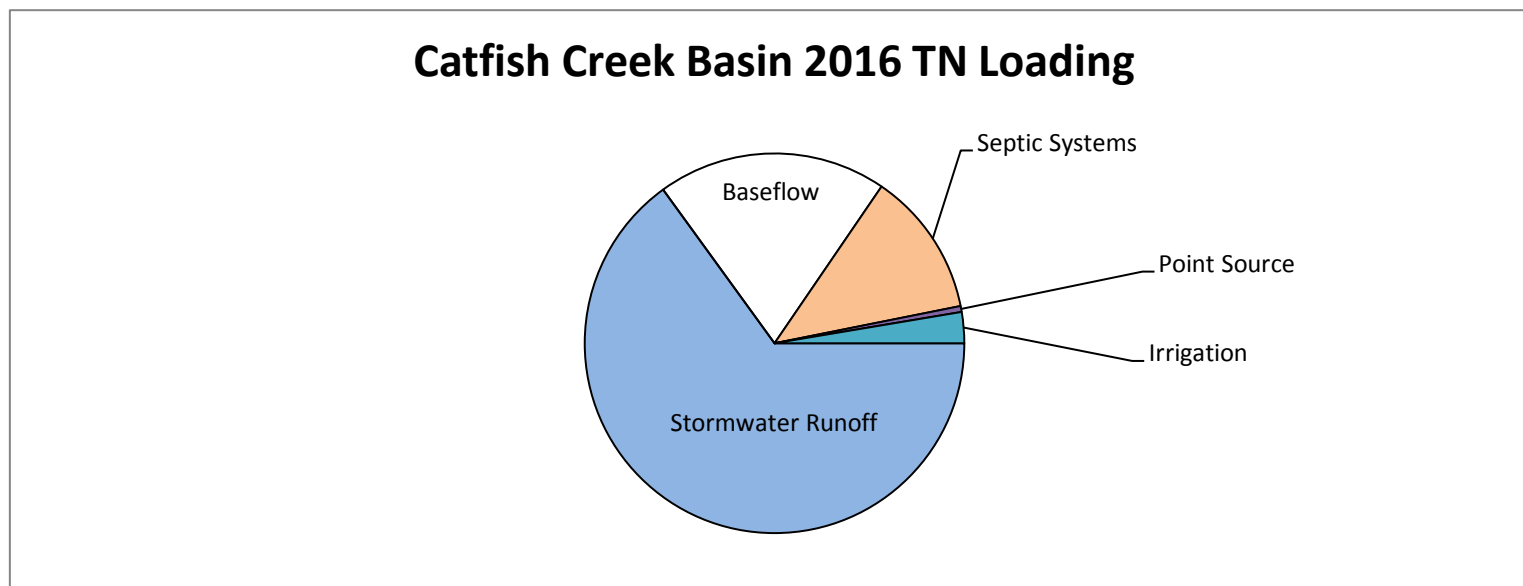
Section 2

Catfish Creek

Total Nitrogen

2016 Pollutant loading is influenced by some sources more than others

Stormwater Runoff	65%
Baseflow	20%
Septic Systems	12%
Point Source	1%
Irrigation	3%
Atmospheric Deposition	Not Modeled



Section 3

Catfish Creek

Total Nitrogen

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

Proportion of loading is **High** when % load is compared to % acreage.
Catfish Creek acreage is 38% and % loading is 59%

Catfish Creek is a part of the Little Sarasota Bay watershed

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

The following basins contribute 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%

