

SIMPLE-Monthly Pollutant Loading Model Results - North Creek Basin TN

Section 1 TN Loading has decreased by 10% from 2001-2016
 Stormwater Runoff was the component that saw the greatest increase in loading from 2001-2016 (+2%)

Section 2 Stormwater Runoff is the greatest contributor to TN in the Little Sarasota Bay Coastal Basin, contributing 59% of the total load.

Section 3 North Creek Basin is not a major TN contributor to the Little Sarasota Bay watershed.

Section 1

North Creek

Total Nitrogen

Pollutant Loading Trend	Decrease	-10%	2001 to 2016
Components of the Trend			
Stormwater Runoff	Increase	2%	2001 to 2016
Baseflow	Increase	1%	2001 to 2016
Septic Systems	Decrease	-86%	2001 to 2016
Point Source	Decrease	-100%	2001 to 2016
Irrigation	Decrease	-72%	2001 to 2016
Atmospheric Deposition	Not Modeled		2001 to 2016

Year	Total	Runoff	Baseflow	Septic	Point Source	Irrigation	Atmospheric
2001	3726.61	1952.21	918.99	448.07	787.42	1375.00	0.00
2006	3756.33	1983.12	928.93	461.88	0.00	382.40	0.00
2011	3483.59	1985.00	930.40	183.33	0.00	384.87	0.00
2016	3358.23	1985.00	930.40	61.58	0.08	381.17	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.

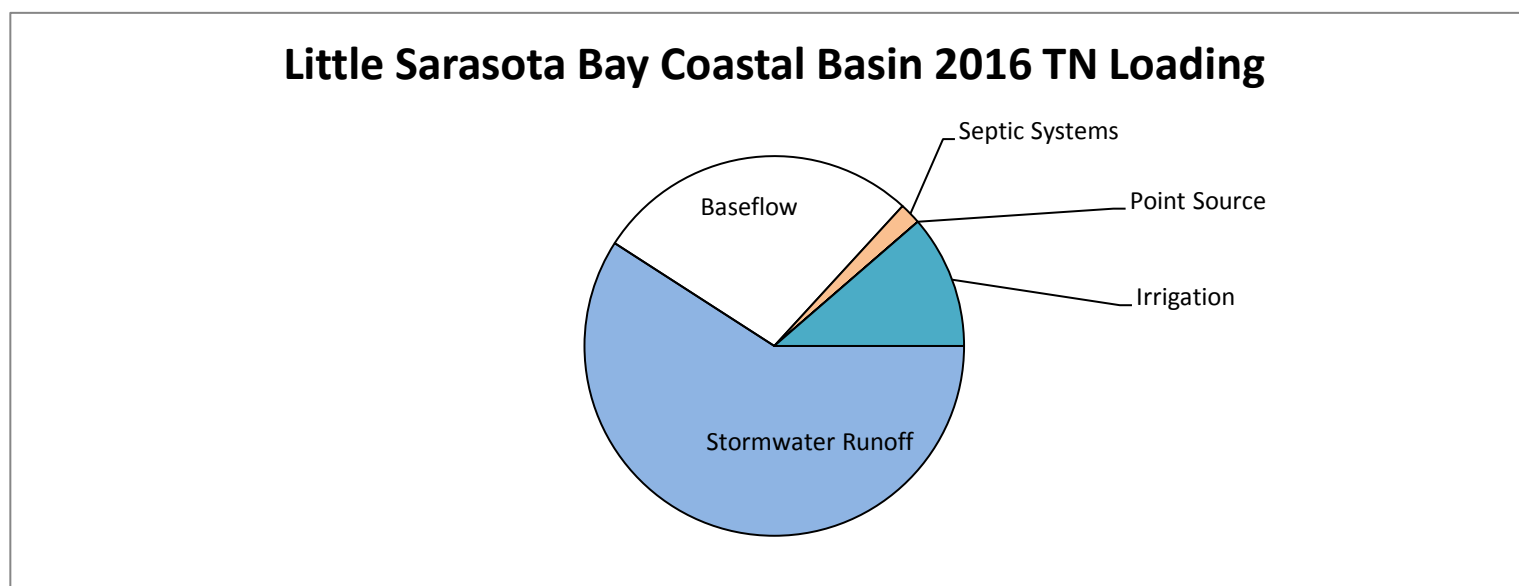
Section 2

North Creek

Total Nitrogen

2016 Pollutant loading is influenced by some sources more than others

Stormwater Runoff	59%
Baseflow	28%
Septic Systems	2%
Point Source	0%
Irrigation	11%
Atmospheric Deposition	Not Modeled



Section 3

North Creek

Total Nitrogen

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

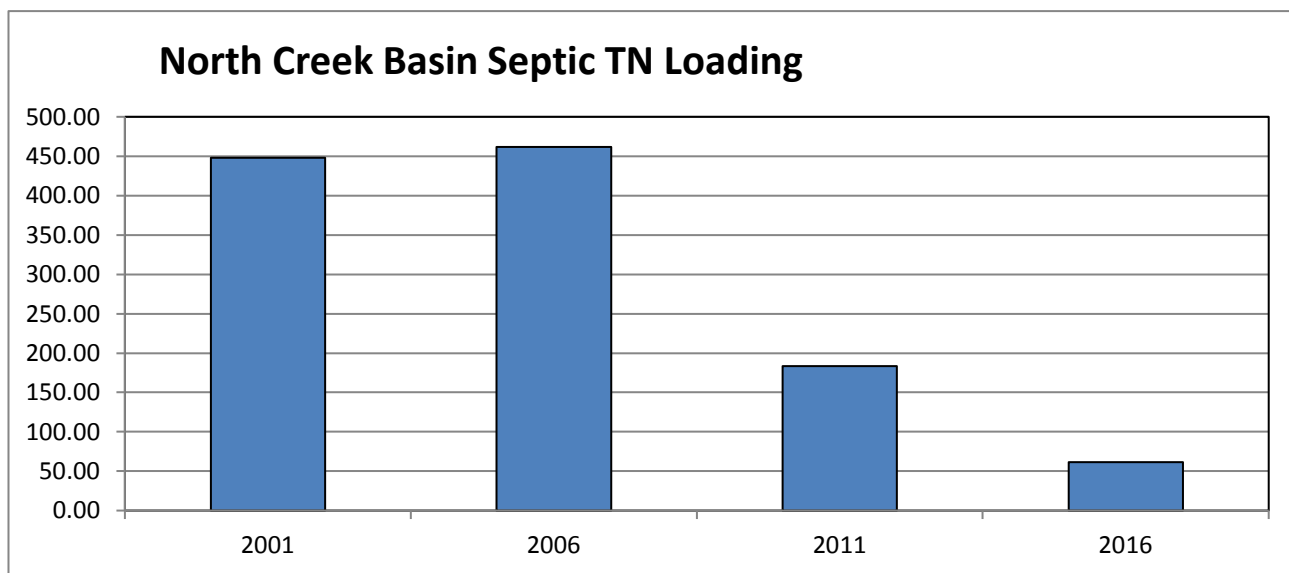
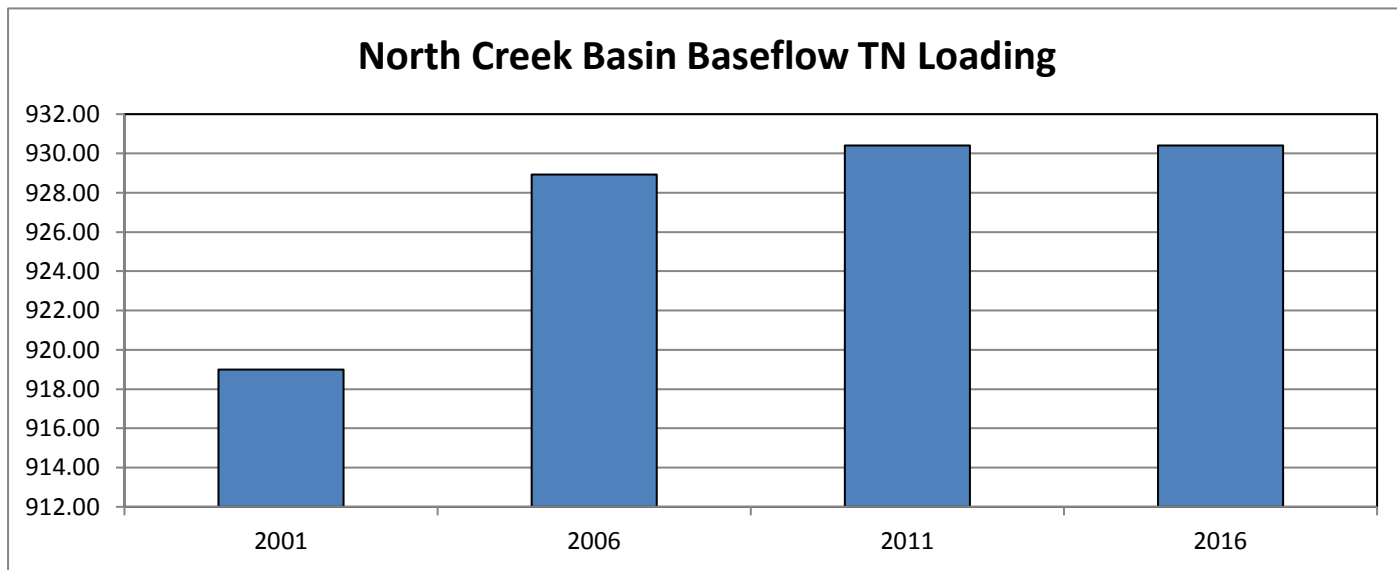
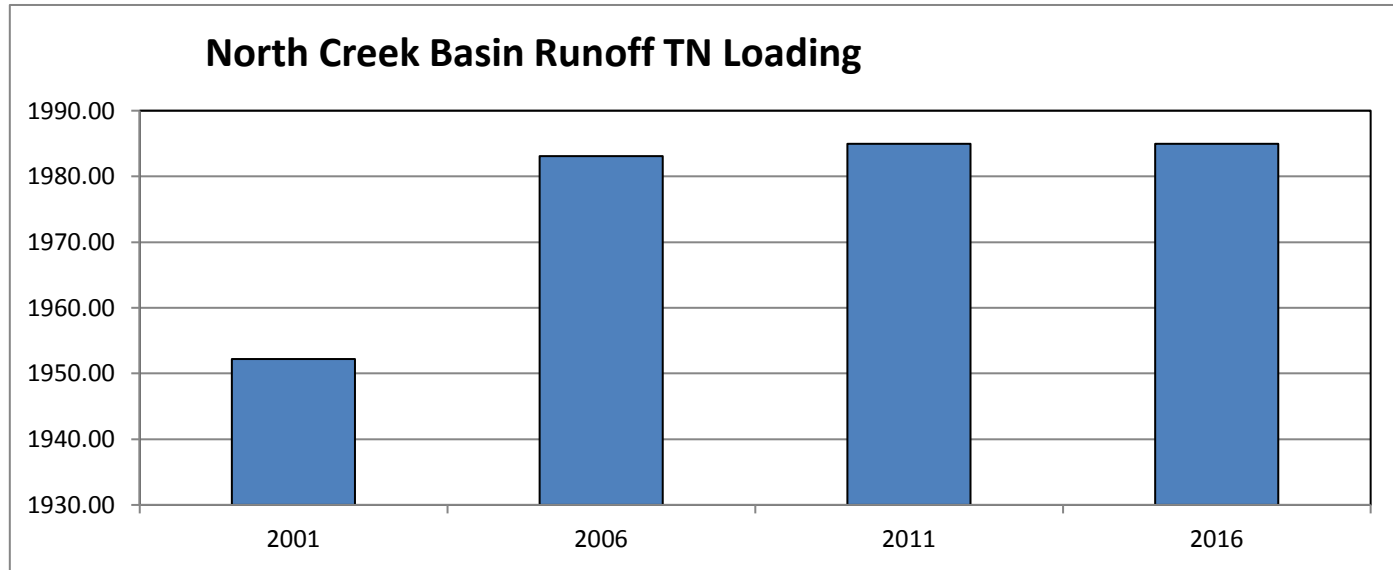
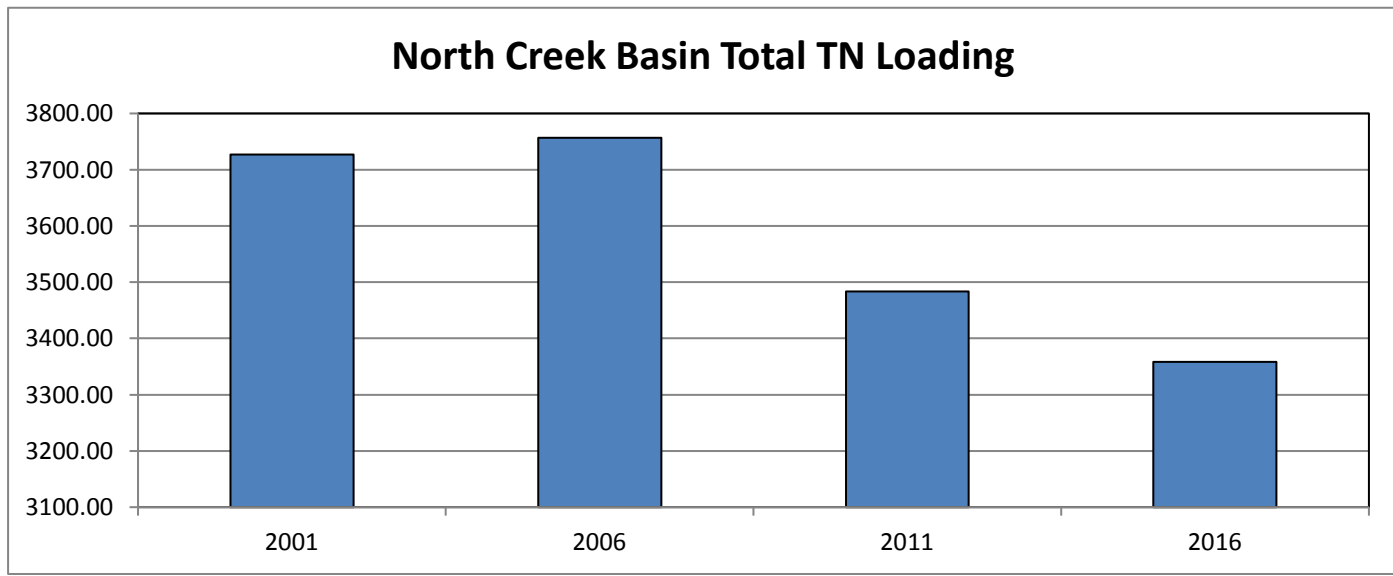
Proportion of loading is **Low** when % load is compared to % acreage.
North Creek Basin acreage is 22% and % loading is 14%

North Creek is a part of the Little Sarasota Bay watershed

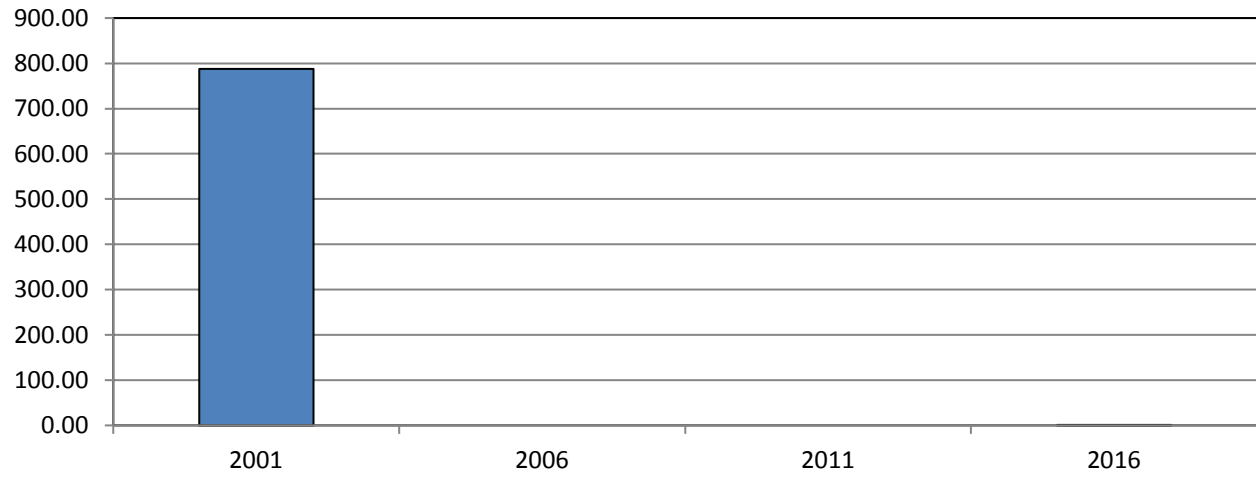
	Pounds TN 2016	Acreage
Little Sarasota Bay watershed	23,815	10,552

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%



North Creek Basin Point Source TN Loading



North Creek Basin Irrigation TN Loading

