

SIMPLE-Monthly Pollutant Loading Model Results - Casey Key Blackburn Bay Basin TN

Section 1 TN Loading has decreased by 98% from 2001-2016.
 Septic System input was the component that saw the greatest increase in loading from 2001-2016 (+1200%)

Section 2 Septic Systems are the greatest contributor to TN in the Casey Key Blackburn Bay basin, contributing 51% of the total load.

Section 3 Casey Key Blackburn Bay basin is not a major TN contributor to the Blackburn Bay watershed.

Section 1

Casey Key Blackburn Bay

		Total Nitrogen		
Pollutant Loading Trend		Decrease	-98%	2001 to 2016
Components of the Trend				
	Stormwater Runoff	No Change	0%	2001 to 2016
	Baseflow	No Change	0%	2001 to 2016
	Septic Systems	Increase	1200%	2001 to 2016
	Point Source		Cannot calculate	2001 to 2016
	Irrigation	Decrease	-79%	2001 to 2016
	Atmospheric Deposition	Not Modeled		2001 to 2016

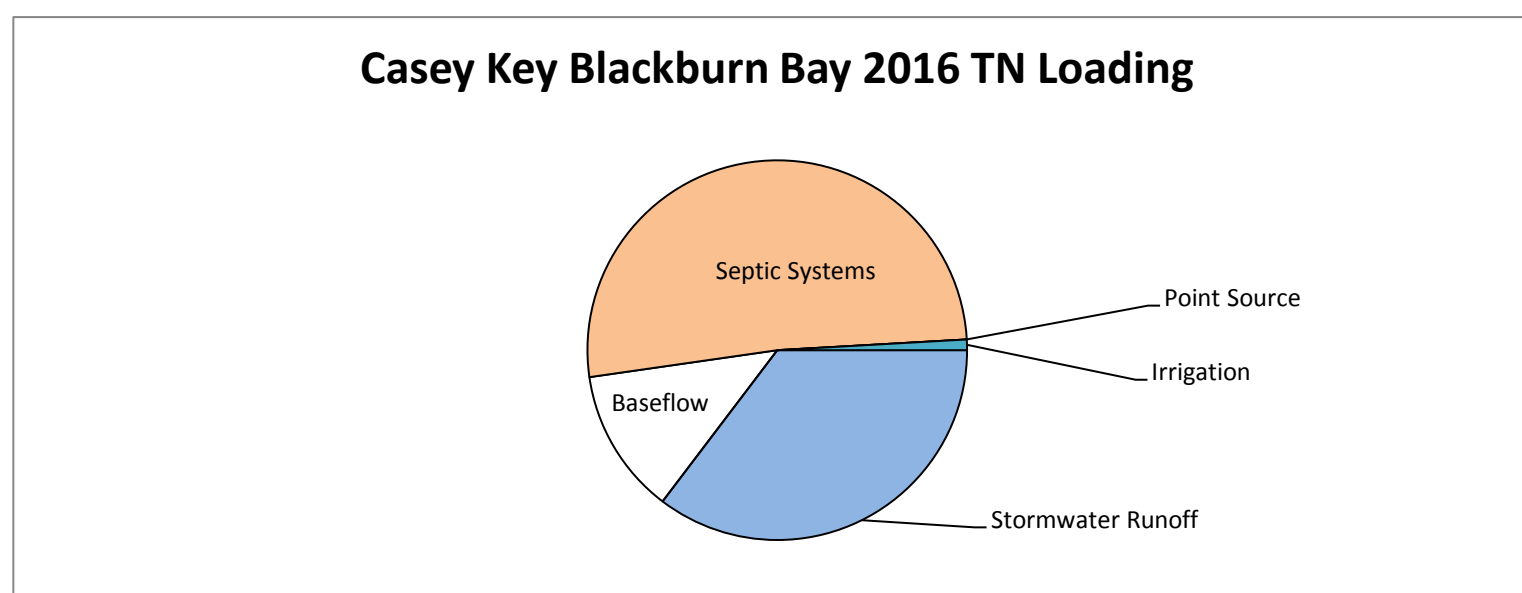
Year	Total	Runoff	Baseflow	Septic	Point Source	Irrigation	Atmospheric
2001	3994.19	27.08	9.51	3.04	0.00	3.35	0.00
2006	78.02	27.19	9.55	40.59	0.00	0.69	0.00
2011	76.97	27.19	9.55	39.54	0.00	0.69	0.00
2016	76.97	27.19	9.55	39.54	0.00	0.69	0.00

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

Casey Key Blackburn Bay

		Total Nitrogen
2016 Pollutant loading is influenced by some sources more than others		
Stormwater Runoff		35%
Baseflow		12%
Septic Systems		51%
Point Source		0%
Irrigation		1%
Atmospheric Deposition		Not Modeled



Section 3

Casey Key Blackburn Bay

Total Nitrogen

2016 Pollutant loading to the Blackburn Bay watershed has multiple sources

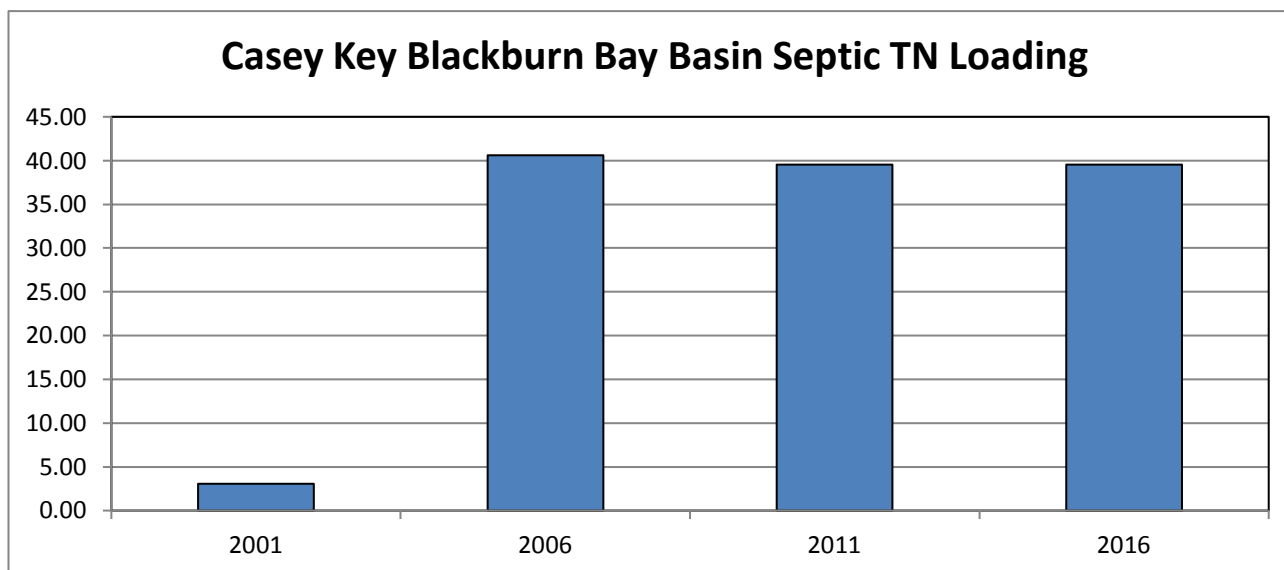
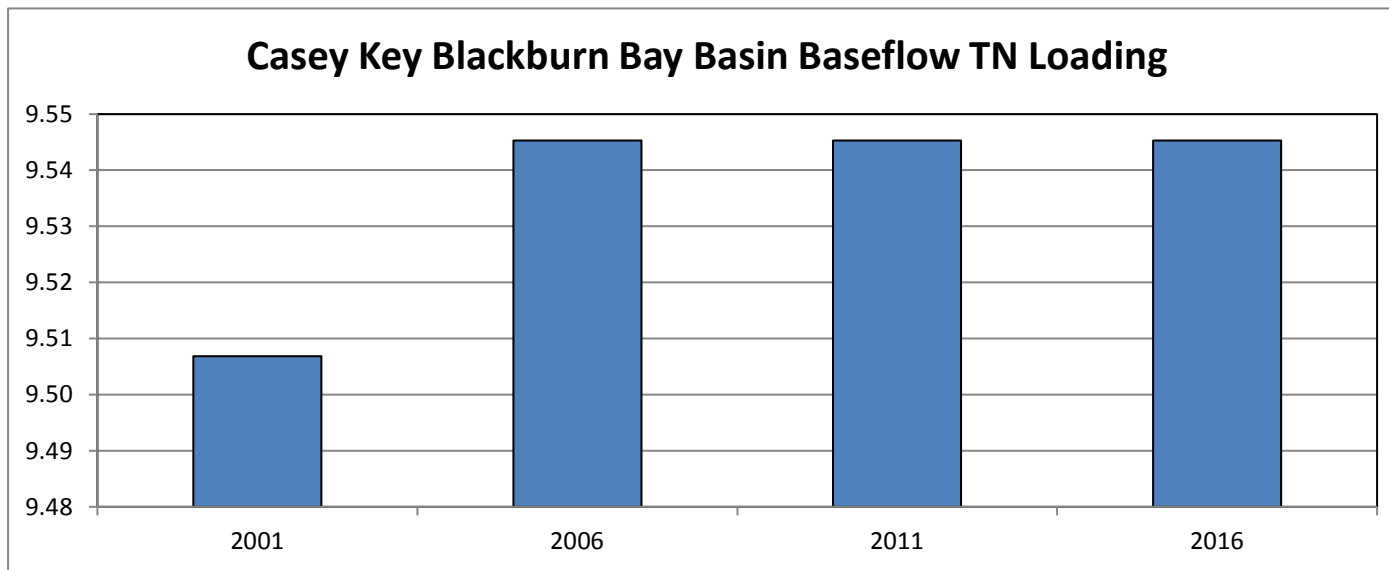
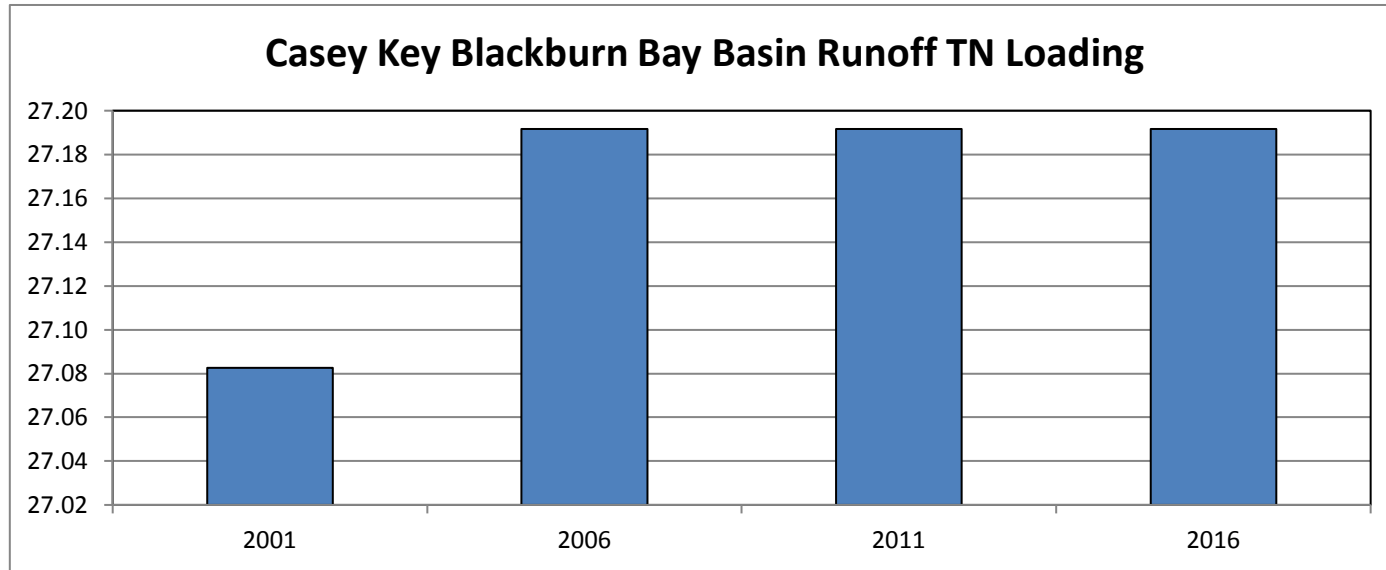
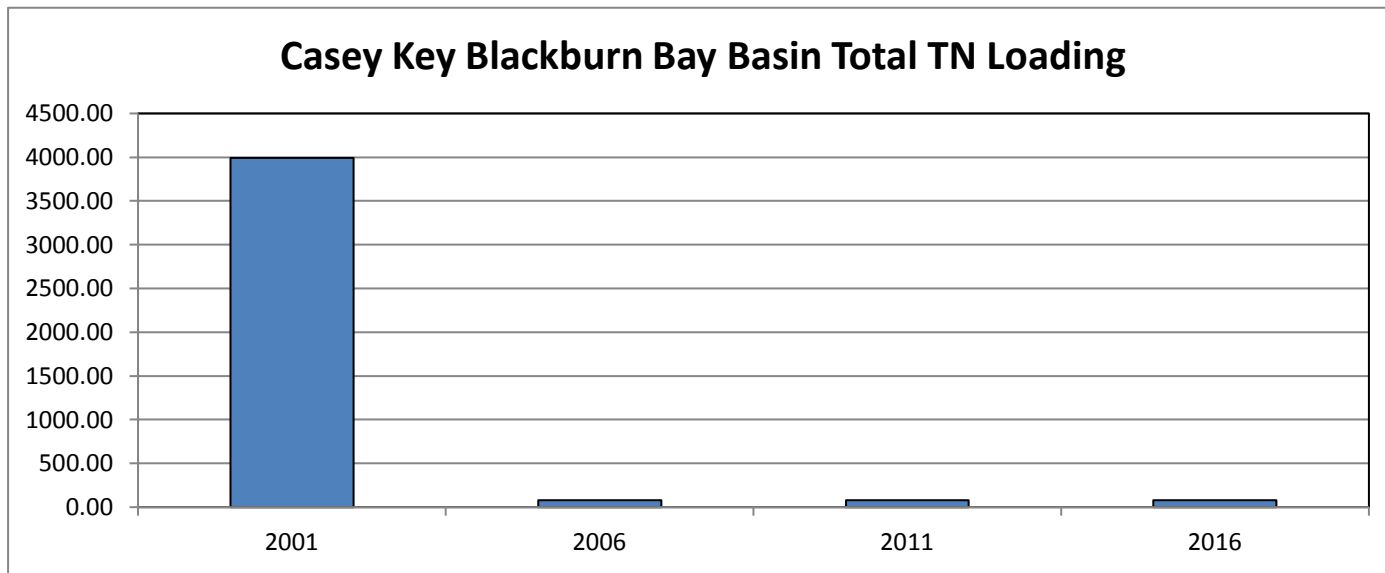
Proportion of loading is **Low** when % load is compared to % acreage.
Casey Key Blackburn Bay acreage is 2% and % loading is 0%

The Casey Key Blackburn Bay basin is a part of the Blackburn Bay watershed

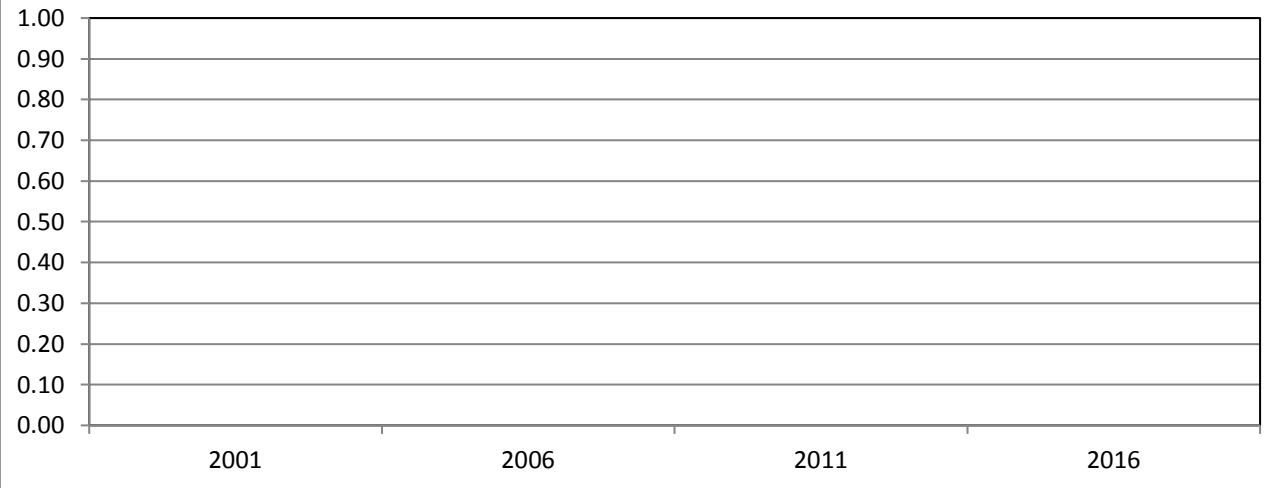
	Pounds TN 2016	Acreage
Blackburn Bay	67,880	15,367

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

	Pounds TN 2016	% of Watershed Load	Acreage	% of Blackburn Bay watershed
Casey Key Blackburn Bay	77	0%	322	2%
Blackburn Bay	451	1%	693	5%
South Creek	65,943	97%	12,630	82%
Blackburn Bay Coastal	1,409	2%	1,721	11%



Casey Key Blackburn Bay Basin Point Source TN Loading



Casey Key Blackburn Bay Basin Irrigation TN Loading

