

Estimates of Total Nitrogen Loading to the St. Lucie Estuary

Source Basin	2016 Total Nitrogen Load, lbs
C-23 Canal Basin	596,848
C-24 Canal Basin	611,268
C-44 Canal Basin	833,155
Ten Mile Creek Basin	462,890
Lake Okeechobee	2,789,663
Tidal Basin (SFWMD 2016)	669,537
Total Nitrogen Load to Estuary	5,963,361
No. of Martin and St. Lucie septic tanks that drain to the estuary (Ye and Sun 2013)	35,439
Estimate of TN load from septic tanks to the estuary (Ye and Sun 2013)	230,936
Estimate of % of total nitrogen load to St. Lucie Estuary from septic tanks	4%

SFWMD 2016. Draft Chapter 8C: St. Lucie and Caloosahatchee River Watershed Research and Water Quality Monitoring Results and Activities, South Florida Environmental Report, September 2016

Ye, Ming and Huaiwei Sun 2013. Estimation of Nitrogen Load from Removed Septic Systems to Surface Water Bodies in the City of Port St. Lucie, the City of Stuart, and Martin County. Prepared for the Florida Department of Environmental Protection. September 2013.

Total nitrogen loads estimated from data obtained from the SFWMD database, DBHYDRO.

Data and calculations are provisional and subject to revision.

Source Basin	1980-2016 Average Annual Total Nitrogen Load, lbs
C-23 Canal Basin	652,009
C-24 Canal Basin	631,237
C-44 Canal Basin	550,528
Ten Mile Creek Basin	291,936
Lake Okeechobee	1,075,469
Tidal Basin (SFWMD 2016)	669,537
Total Nitrogen Load to Estuary	3,870,717
No. of Martin and St. Lucie septic tanks that drain to the estuary (Ye and Sun 2013)	35,439
Estimate of TN load from septic tanks to the estuary (Ye and Sun 2013)	230,936
Estimate of % of total nitrogen load to St. Lucie Estuary from septic tanks	6%

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