

Septic Tank Calculations

Lake Jesup BMAP
Technical Meeting
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Septic Tank Setback Distance

- A 200 meter setback from surface waters was used in the TMDL to calculate septic tanks contributing loads.
- This distance was selected from the conservative end of the range presented in a past study.
- To be consistent with current State Department of Health rules for permitting septic tanks, the contributing septic tanks were recalculated based on a 75 foot setback distance from surface waters.

Setback Distance (continued)

- Studies are ongoing to determine an appropriate distance for water quality impacts from septic tanks.
- The results from these studies will be used to refine the septic tank loading estimates during the next TMDL cycle.

Revised Septic Tank Counts

- For jurisdictions included in the TMDL, the GIS layers from the TMDL were used to recalculate septic tank areas within 75 feet of surface waters.
- For jurisdictions not included in the TMDL, the following information was used:
 - Eatonville – DOH's CENTRAX database
 - Maitland, Winter Park, and Orange County – provided GIS information on parcels with septic tanks
 - Orlando – provided a septic tank parcel count based on GIS and wastewater billing information

Revised Septic Tank Allocations

- The starting point septic tank loading for each jurisdiction was recalculated based on the updated septic tank count information.
- Each jurisdiction's percent contribution to the septic tank loading was determined by comparing their starting septic tank load to the total starting septic tank load.
- The 1.5 metric ton (MT) reduction from the TMDL was allocated to each jurisdiction based on their percent contribution.

Septic Tank Starting Load in TMDL

Jurisdiction	Load
Altamonte Springs	20.05
Casselberry	440.50
Lake Mary	633.13
Longwood	547.98
Maitland	446.53
Orange Co	229.54
Oveido	18.30
Sanford	583.31
Seminole Co	2,853.46
Winter Springs	119.08
Total (lbs)	5,891.88
Total (MT)	2.672512

First Revision

- Added data for missing jurisdictions: Eatonville, Orlando, and Winter Park.
- Updated data for Maitland and Orange County.

Jurisdiction	Load
Altamonte Springs	20.05
Casselberry	440.50
Eatonville	2.50
Lake Mary	633.13
Longwood	547.98
Maitland	509.93
Orange Co	3,904.26
Orlando	168.86
Oveido	18.30
Sanford	583.31
Seminole Co	2,853.46
Winter Park	774.03
Winter Springs	119.08
Total (lbs)	10,575.39
Total (MT)	4.796916

Second Revision

- Revised all loading estimates based on a 75 foot setback distance from surface waters.
- This information was used to determine the allocations.

Jurisdiction	Load
Altamonte Springs	19.62
Casselberry	235.43
Eatonville	2.50
Lake Mary	375.74
Longwood	309.19
Maitland	299.91
Orange Co	1,810.63
Orlando	55.45
Oveido	18.30
Sanford	16.08
Seminole Co	2,276.70
Winter Park	95.93
Winter Springs	26.70
Total (lbs)	5,542.18
Total (MT)	2.513892