Indian River Lagoon Basin Management Action Plans (BMAPs)
Proposed Project Reduction Efficiencies for New Project Ideas
Revised August 1, 2014

The following table shows the total nitrogen (TN) and total phosphorus (TP) reduction efficiencies associated with the proposed project types for consideration in the BMAP process. These additional types of management actions to remove TN and TP were proposed by the Brevard County stakeholders in June 2014. Based on the Department's review, where numerical efficiencies are given, these numbers represent the minimum credit that will be awarded to a particular project. However, a stakeholder may provide additional monitoring data that indicate a higher efficiency, and the Department will determine whether the higher credit should be awarded. "TBD" indicates to be determined. These project types will require input from stakeholders and further discussion before reduction efficiencies can be applied. "No credit" indicates that the Florida Department of Environmental Protection is not considering giving nutrient BMAP credits for those kinds of projects at this time.

Table 1: TN and TP Reduction Efficiencies for Proposed Projects

Project Type	TN Reduction Efficiency	TP Reduction Efficiency
Septic tank phase out*	ArcNLET Model	ArcNLET Model
Denitrification wall**	BMPTRAINS Model	BMPTRAINS Model
Biosorption activated media (BAM)**	BMPTRAINS Model	BMPTRAINS Model
Muck removal***	Guidance document	Guidance document
Aquatic harvesting***	Guidance document	Guidance document
Green roof	45% (Without cistern) 60% (With cistern)	N/A
Rain garden	30%	30%
Tree box	38%	50%
Bioswale	38% (Nitrate)	9%
Buffers	22% (less than 40 meters) 27% (greater than 40 meters)	N/A
Living shoreline	TBD	TBD
Oyster reefs	TBD	TBD
Seagrass planting	TBD	TBD
Code changes/Economic incentives	TBD	TBD
Reclaimed water	TBD	TBD
Enhanced education	TBD	TBD
Plugging artesian wells	TBD	TBD
Retention of larger storm events	TBD	TBD
Macroalgal harvesting	No credit	No credit
Natural wetlands as filters	No credit	No credit

*The ArcNLET model is located here: http://people.sc.fsu.edu/~mye/ArcNLET.
**The BMPTRAINS model is located here: http://www.stormwater.ucf.edu/default.asp.
***Muck removal and aquatic harvesting guidance documents are located here: http://publicfiles.dep.state.fl.us/DEAR/BMAP/IndianRiverLagoon/.