

FDOT District 4

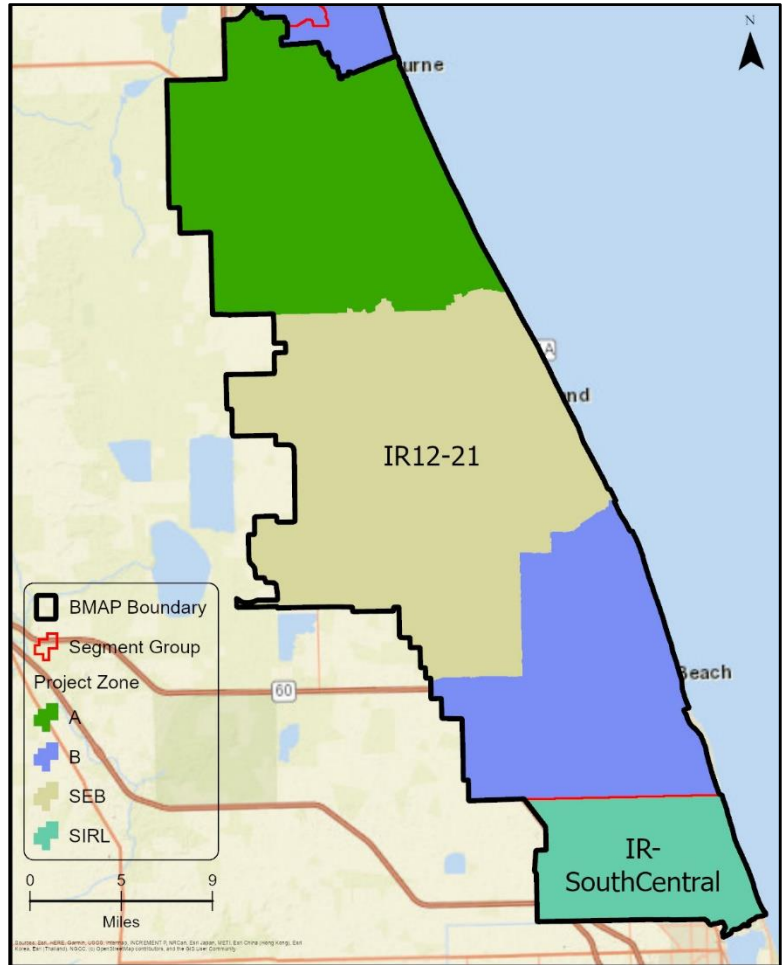
Central Indian River Lagoon BMAP

Draft Allocations April 2020

Summary:

- Used load estimation tool (LET) developed from SWIL model to calculate total nitrogen (TN) and total phosphorus (TP) starting loads for each total maximum daily load (TMDL) "Segment Group."
- Applied percent reduction from TMDL for each Segment Group (see tables below) to calculate total TN and TP load reduction required for each Segment Group.
- Used LET to calculate total anthropogenic starting load in each Segment Group and determine the percent each entity contributed to the total anthropogenic starting load.
- Multiplied the load reduction required in the Segment Group by the percent each entity contributed to the total anthropogenic starting load to calculate each entity's required reductions within each Segment Group.

Note: Numbers have been rounded for display in this document but were not rounded during the full calculation process.

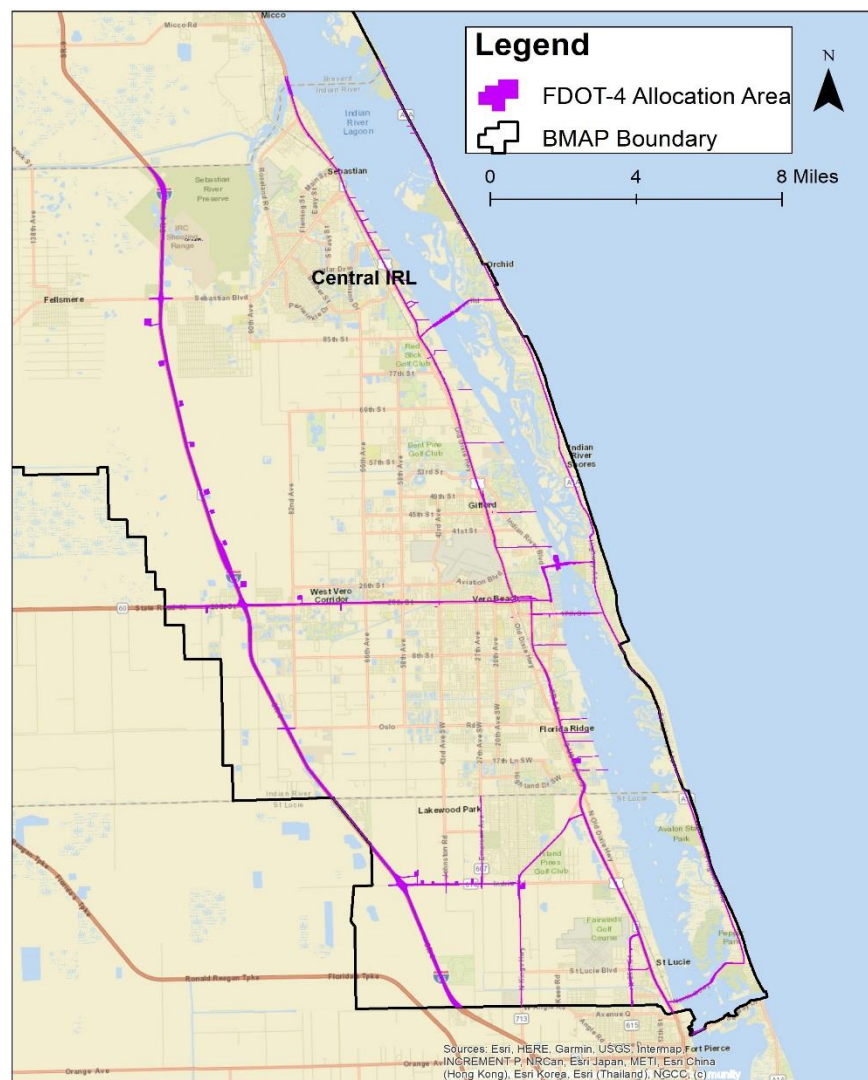


Required Reductions Per TMDL Segment Group

BMAP	Project Zone	TMDL Segment Group	% TN TMDL Total Reduction	% TP TMDL Total Reduction
Central IRL	A, B, SEB	IR12-21	56%	48%
Central IRL	SIRL	IR-SouthCentral	36%	58%

New Load Calculations from SWIL Model

BMAP	Project Zone	TN (lbs/yr)			TP (lbs/yr)		
		Starting Load	Required Reductions	Allocation	Starting Load	Required Reductions	Allocation
Central IRL	B	9,759	6,238	3,521	1,314	703	611
Central IRL	SEB	6,027	4,782	1,246	718	450	268
Central IRL	SIRL	7,061	3,377	3,684	962	698	264
Total		22,848	14,397	8,451	2,994	1,851	1,143



Draft Project Credit Recalculations

Using the LET and geographic information systems (GIS) tools, base loads for the project treatment areas were updated for all projects that require a base load for credit calculations. This allowed the project credits to be recalculated using the same foundation that was used for the updated allocations.

Current verified and completed projects:

Central Indian River Lagoon Project Zone B

TN (lbs/yr)			TP (lbs/yr)		
Required Reductions	Updated Project Credits	% Reductions Achieved	Required Reductions	Updated Project Credits	% Reductions Achieved
6,238	8,682	139%	703	2,311	329%

Central Indian River Lagoon Project Zone SEB

TN (lbs/yr)			TP (lbs/yr)		
Required Reductions	Updated Project Credits	% Reductions Achieved	Required Reductions	Updated Project Credits	% Reductions Achieved
4,782	7,025	147%	450	1,906	471%

Central Indian River Lagoon Project Zone S1RL

TN (lbs/yr)			TP (lbs/yr)		
Required Reductions	Updated Project Credits	% Reductions Achieved	Required Reductions	Updated Project Credits	% Reductions Achieved
3,377	6,415	190%	698	1,542	221%

These credits represent FDOT District 4's status as of April 2020 – there will continue to be opportunities to submit new projects and obtain additional credits.

Notes:

- We could not locate a treatment area (TA) shapefile for following projects: **FDOT4-11, FDOT4-12, FDOT4-13, FDOT4-14, FDOT4-15, FDOT4-16, FDOT4-17, FDOT4-27, FDOT4-28, FDOT4-34, FDOT4-35, FDOT4-36**. Once we receive the TA shapefile for this project, the reduction credits can be calculated and added to total reductions once project is complete.
- Need additional information to calculate credits for the following projects: **FDOT4-02, FDOT4-15, FDOT4-16, FDOT4-17, FDOT4-19, FDOT4-21, FDOT4-22, FDOT4-23, FDOT4-25, FDOT4-26, FDOT4-28, FDOT4-35**.
- The treatment area shapefile acreage does not match the acres treated listed in the table for the following projects: **FDOT4-24, FDOT4-25, FDOT4-26**.