



*Florida Department of
Environmental Protection*

Allocations

North Indian River Lagoon BMAP Meeting
August 2, 2012



Allocation Options

- During the last few meetings, two main allocation options for the North IRL BMAP have been discussed:
 - Option A: Target load per acre; and
 - Option D: Target load per acre without undeveloped lands.
- Both options assign the required reductions using a target load per acre for each project zone to focus reductions on the areas with the highest loading, which have the most impact on the lagoon.





Allocation Options, continued

- FDEP agrees with the stakeholders that removing the undeveloped lands makes scientific sense since reductions are not required to occur on these lands.
- However, the target load per acre without undeveloped lands approach results in required reductions that seem disproportionately high for those stakeholders that are mainly undeveloped.
 - 40.2% of the area is wetlands;





Allocation Options, continued

- The TMDL calculated load per acre may actually be lower than undeveloped lands in some areas, primarily for TN.
- In the Banana River Lagoon, Project Zone A is where most of the undeveloped land is located. Project Zone A is meeting seagrass targets. Removing undeveloped lands from the allocation works because Project Zone B is developed.
- Undeveloped lands in NIRL cannot be separated the same way as in Banana.





Allocation Approach for the BMAP

- For this first BMAP iteration, the best option is to use the original target load per acre approach.
- This approach seems to work best with the current version of the model to result in the most fair and equitable allocations.
- Partners are only asked to provide projects for a 15% reduction.





Allocation Approach, continued

- BMAPs are adaptable to changing circumstances. Outlined in adaptive management section.
- A different allocation approach, which does not include undeveloped lands, could be used in the next BMAP iteration.
- A new consideration was added to Section 1.4.2 of the BMAP to note this.





Future BMAP Iterations

- Before the next iteration of the BMAP, FDEP will work with stakeholders to review the latest data to address the issues noted in the BMAP considerations section to the extent possible.
- The model will be updated, as needed, to include the new information.
- Based on the updated TMDL model and progress made towards seagrass depth limit targets, the required reductions for the next iteration would be determined.





BMAP Phase I TN Reductions for North A

Entity	TN Required Reduction (lbs/yr)	Portion of Volusia County and KSC Load Reduction (lbs/yr)	Revised TN Required Reduction (lbs/yr)	15% of TN Required Reduction (lbs/yr)
Agriculture	45,654.9	8,343.9	37,311.0	5,596.6
Brevard County	19,429.6	4,896.2	14,533.3	2,180.0
Edgewater	572.1	409.8	162.2	24.3
FDOT D5	3,164.4	520.3	2,644.1	396.6
KSC	-4,347.1	-	0.0	0.0
Titusville	52,646.2	8,615.4	44,030.7	6,604.6
Volusia County	-18,438.6	-	0.0	0.0
Oak Hill - <i>de minimus</i>	-	-	-	-
Total	98,681.3	22,785.7	98,681.3	14,802.2





BMAP Phase I TP Reductions for North A

Entity	TP Required Reduction (lbs/yr)	Portion of Volusia County Load Reduction (lbs/yr)	Revised TP Required Reduction (lbs/yr)	15% of TP Required Reduction (lbs/yr)
Agriculture	7,715.0	856.4	6,858.6	1,028.8
Brevard County	2,251.9	372.3	1,879.6	281.9
Edgewater	45.4	45.4	0.0	0.0
FDOT D5	1,047.7	100.8	946.9	142.0
KSC	515.0	515.0	0.0	0.0
Titusville	10,726.8	1,076.0	9,650.7	1,447.6
Volusia County	-2,965.9	0.0	0.0	0.0
Oak Hill - <i>de minimus</i>	-	-	-	-
Total	19,336.0	2,965.9	19,336.0	2,900.4





BMAP Phase I TN Reductions for North B

Entity	TN Required Reduction (lbs/yr)	Portion of KSC Load Reduction (lbs/yr)	Revised TN Required Reduction (lbs/yr)	15% of TN Required Reduction (lbs/yr)
Agriculture	8,224.3	913.0	7,311.3	1,096.7
Brevard County	40,513.7	5,188.9	35,324.8	5,298.7
Cocoa	17,043.6	980.2	16,063.4	2,409.5
FDOT D5	4,655.2	325.7	4,329.5	649.4
Indialantic	1,014.9	65.5	949.4	142.4
KSC	-12,167.5	-	0.0	0.0
Melbourne	48,311.8	3,388.5	44,923.3	6,738.5
Rockledge	15,163.0	1,193.4	13,969.6	2,095.4
Titusville	423.7	112.4	311.3	46.7
Indian Harbour Beach – <i>de minimus</i>	-	-	-	-
Palm Shores – <i>de minimus</i>	-	-	-	-
Total	123,182.7	12,167.5	123,182.6	18,477.4





BMAP Phase I TP Reductions for North B

Entity	TP Required Reduction (lbs/yr)	Portion of KSC and Titusville Load Reduction (lbs/yr)	Revised TP Required Reduction (lbs/yr)	15% of TP Required Reduction (lbs/yr)
Agriculture	3,119.1	154.3	2,964.8	444.7
Brevard County	7,244.2	608.8	6,635.4	995.3
Cocoa	3,861.1	146.3	3,714.8	557.2
FDOT D5	2,204.3	78.6	2,125.7	318.9
Indialantic	209.6	8.9	200.7	30.1
KSC	-1,640.5	-	0.0	0.0
Melbourne	13,681.3	558.6	13,122.7	1,968.4
Rockledge	4,142.5	185.4	3,957.1	593.6
Titusville	-100.4	-	0.0	0.0
Indian Harbour Beach – <i>de minimus</i>	-	-	-	-
Palm Shores – <i>de minimus</i>	-	-	-	-
Total	32,721.2	1,740.9	32,721.2	4,908.2





BMAP Credit

- All of the stakeholders have provided sufficient projects (both completed and planned) to achieve the first BMAP iteration required reductions.
- The tables in Chapter 5 of the BMAP have been updated to include the total credit each entity has towards the next BMAP iteration.





Questions?

