

Maryland 2012-2013 BMP Milestones

Rev. 3/30/12

BMP NAME	UNITS	FY12-13 Milestone Incremental	Comment/Interpretation	BMP Type	Land use	IN INPUT DECK
Agriculture						
10' Fertilizer Setback	ACRE	-		GB	ROW	
Alternative Crops	ACRE	200	Same as Switchgrass	CarSeqAltCrop	ROW	
Barnyard Runoff Control	ACRE	153		BarnRunoffCont	afocafo	as 153 systems
CAFO Manure Application Setback	ACRE	-		GB	ROW	
Conservation Plans/SCWQP	ACRE	826,000		ConPlan		
Conservation Tillage	ACRE	764,630		ConserveTill	HIGHMAN	
Continous No-Till	ACRE	-				
Cover Crops	ACRE	355,000		Various Non-CommodityTypes	ROW	
Cropland Irrigation Management	ACRE	92,000				
Dairy Manure Incorporation	ACRE	3,977	Same as Dairy Manure Injection	LiquidInjection	ROWMANALL	
Decision/Precision Agriculture	ACRE	-	See general "Nutrient Mgmt - Cropland"	DecisionAg	CROPFERT	
Enhanced Nutrient Management - Tier I	ACRE	-	See general "Nutrient Mgmt - Cropland"	EnhancedNM	CROPFERT	
Enhanced Nutrient Management - Tier II	ACRE	-	See general "Nutrient Mgmt - Cropland"	EnhancedNM	CROPFERT	
Enhanced Nutrient Management - Tier III	ACRE	-	See general "Nutrient Mgmt - Cropland"	EnhancedNM	CROPFERT	
Forest Buffers	ACRE	221		FB		
Grass Buffers; Vegetated Open Channel	ACRE	538		GB		
Heavy Use Poultry Area Concrete Pads	Operations	19				N/A
Horse Pasture Management	ACRE	713		HorsePasMan	PASTURE	
Irrigation Water Capture Reuse	ACRE	1,000		CaptureReuse	urs	
Land Retirement to hay without nutrients (HEL)	ACRE	608	Same as Retirement of Highly Erodible Land	LandRetireHyo	ROW	
Land Retirement to pasture (HEL)	ACRE	5,286		LandRetirePas	CROP	
Livestock Pasture Management	ACRE	-				
Loafing Lot Management	ACRE	34		Loaflot		
Manure Transport	TON	37,000	37,000 tons dry, 112,000 tons wet	MT		5285 Poultry for 7 ES Counties
Mortality Composters	Operations	21	Same as Composting Facility	MortalityComp		
Non Urban Stream Restoration	FEET	6,919	Same as Streambank Restoration	NonUrbStrmRest	AG	In the Potomac
Nutrient Management -Cropland	ACRE	1,219,566		NM	CROPFERT	
Nutrient Management -Hayland	ACRE	-		NM	HAYNUT	
Nutrient Management -Nursury	ACRE	-		N/a at this time		
Off Stream Watering Without Fencing	ACRE	1,145	Same as Stream Protection without Fencing, Same as Watering Facility	OSWnoFence		
Phytase	%	-		Phytase		
Poultry Litter Injection	ACRE	23,877	Same as Poultry Manure Incorporation	LitterInjection		
Poultry Litter Treatment	Operations	65	Same as Ammonia Emmission Reduction	Alum		used 15% on ES Counties
Precision Intensive Rotational Grazing	ACRE	398		UpPrecIntRotGraze	PASTURE	
Prescribed Grazing	ACRE	2,615		PrecRotGrazing	PASTURE	
Shallow Wildlife Wetland Habitat Management	ACRE	36		WetlandRestore	npa	
Shoreline Erosion Control	FEET	3,649		NonUrbStrmRest	AG	All but the Potomac
Sorbing Materials in Ag Ditches	ACRE	737		DitchFilter	AG	Lower Eastern Shore only
Stream Access Control with Fencing	ACRE	386	Revised from previous acre interpretation	PastFence		
Tree Planting; Vegetative Environmental Buffers - Poultry	ACRE	30	Revised from previous interpretation	TP		
Urban Nutrient Management	ACRE	220,000				
Waste Structures, Livestock	Structures	34	Roughly 125 AU/structure for livestock	AWS		as 34*125 for AU
Waste Structures, Poultry	Structures	7	Roughly 270 AU/structure for poultry	AWS		as 7*270 for AU
Water Control Structures	ACRE	2,453		WaterControlStruc		
Wetland Restoration	ACRE	610		WetlandRestore		

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Urban and Forest BMPs						
Stormwater Retrofits - ALL	POUNDS	35,000	Nitrogen reductions, Edge-of-Stream load			
Point Sources						
Wastewater Treatment Plant Reductions	POUNDS	395,000	The BMP Milestone commitment is to complete construction of 15 ENR upgrades at major plantsupgrades during SFY 2012 - 2013. However, because there is a 1-year lag in reductions, the reductions reflected for ENR upgrades will reflect upgrades completed in SFY 2011 – 2012. Projected load reduction is calculated as follows: Initial flow = average of three previous years (2008-2010). Final flow = 2013 flow projection from MD Dept of Planning. Initial concentration = average of three previous years (2008-2010). Projected concentration = 4 mg/l, unless permit requires lower limit.			
Blue Plains Reductions	POUNDS	355,000	Nitrogen reductions, Edge-of-Stream load. Maryland's portion of the upgrade. Milestone commitment is to complete construction (additional time is needed to fine tune operations). Load reduction is calculated as difference in 7 mg/l to 6 mg/l through interim improvements before the full scale BNR and ENR upgrade with flow being the average of the previous three years.			
Atmospheric Sources						
Air Reductions	POUNDS	25,214	Nitrogen, Delivered Load			
Septic Systems						
Septic Connections	COUNT					
Septic Denitrification	COUNT	1,200				
Notes:						
Unless otherwise specified, all cumulative practices are the total incremental increase for the 2-year period						
Unless otherwise specified, all annual practices apply each year for the two-year period.						
Blank cells in the FY12-13 column should be interpreted as zero.						
Maryland's input deck may include other practices; however, they are not specifically identified as milestone commitments						