



Relative Influence of BMPs To-Date on Load Reductions Agriculture Sector

Objectives

- Identify the agricultural BMPs reported by states to-date (through 2013 Progress) and quantify their relative contribution to nutrient and sediment load reductions from a No-Action condition to 2013 Progress.
- Results in the following slides are focused on the agricultural sector.

Method

- Create a NO ACTION Scenario.
- Determine load reductions between 2013 Progress Scenario and NO ACTION.
- Isolate each 2013 Progress BMP in a separate scenario using CAST processing rules.
- Determine load reductions from the isolated BMP scenario to the NO ACTION.
- Compare the relative load reductions among the BMPs.



Agriculture Practices

LandRetire	Land Retirement	PrecRotGrazing	Prescribed Grazing
ForestBuffers	Forest Buffers	UpPrecIntRotGraze	Precision Intensive Rotational Grazing
ConserveTill	Conservation Tillage	MortalityComp	Mortality Composting
CoverCrop	Cover Crop	EffNutManDecAgVA	Decision Agriculture
AWMS	Animal Waste Management Systems	ForestBuffersTrp	Forest Buffers on Fenced Pasture Corridor
GrassBuffers	Grass Buffers	NoTill	Continuous NoTill
EnhancedNM	Enhanced Nutrient Application Management	WaterContStruc	Water Control Structures
CarSeqAltCrop	Carbon Sequestration	Cropirrmgmt	Crop Irrigation Management
ConPlan	Conservation Plans	EffNutManEnhanceVA	Enhanced Nutrient Application Management
ComCovCrop	Commodity Cover Crop	NonUrbStrmRest	NonUrban Stream Restoration
WetlandRestore	Wetland Restoration	LoafLot	Loafing Lot Management
DecisionAg	Decision Agriculture	OSWnoFence	Pasture Alternative Watering
PastFence	Stream Access Control with Fencing	ConserveTillom	Conservation-Till Specialty Crops
GrassBuffersTrp	Grass Buffers on Fenced Pasture Corridor	TreePlantTrp	Tree Planting on Fenced Pasture Corridor
DairyPrecFeed	Dairy Precision Feeding	PoultryPhytase	Poultry Phytase
Poultrylnjection	Poultry Injection	SwinePhytase	Swine Phytase
TreePlant	Tree Planting	BioFilters	BioFilters
CaptureReuse	Capture & Reuse	HorsePasMan	Horse Pasture Management
ManureTransport	Manure Transport	LagoonCovers	Lagoon Covers
ContinuousNT	Continuous NoTill	NutMan	Nutrient Application Management on Crop
BarnRunoffCont	Barnyard Runoff Control	Alum	Ammonia Emission Reductions (Alum)
LiquidInjection	Liquid Injection		

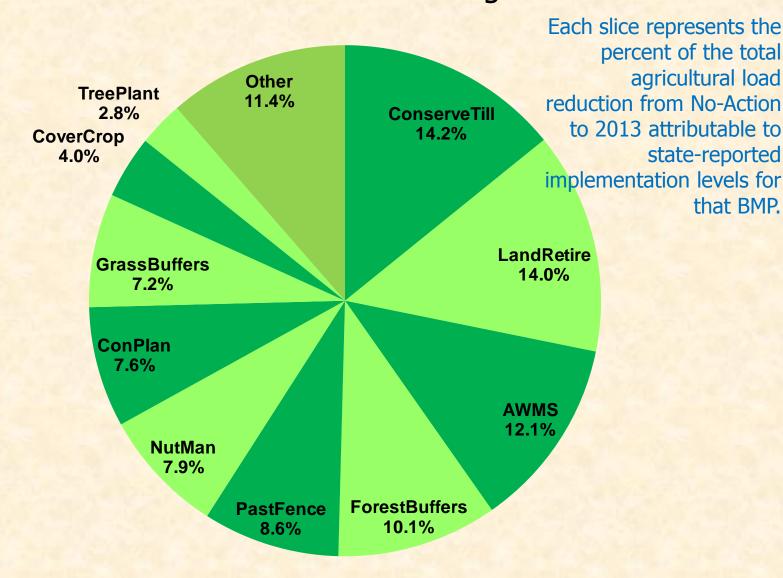




Agricultural Nitrogen Reductions

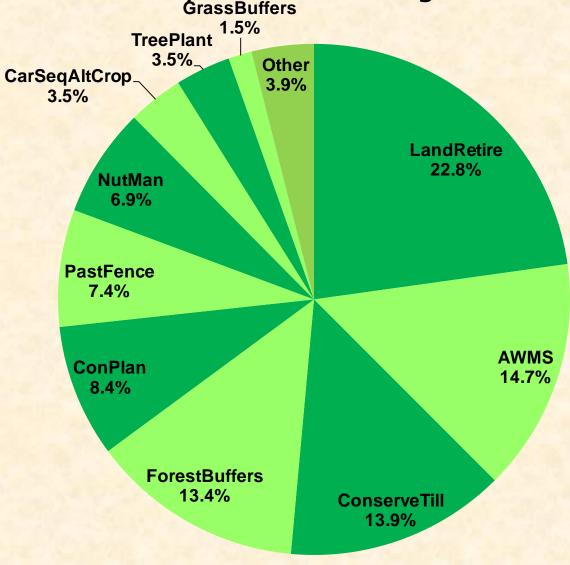
Relative influence of 2013
Progress BMPs
on load reductions

Agriculture Nitrogen Load Reduction by BMP All Jurisdictions' – 2013 Progress

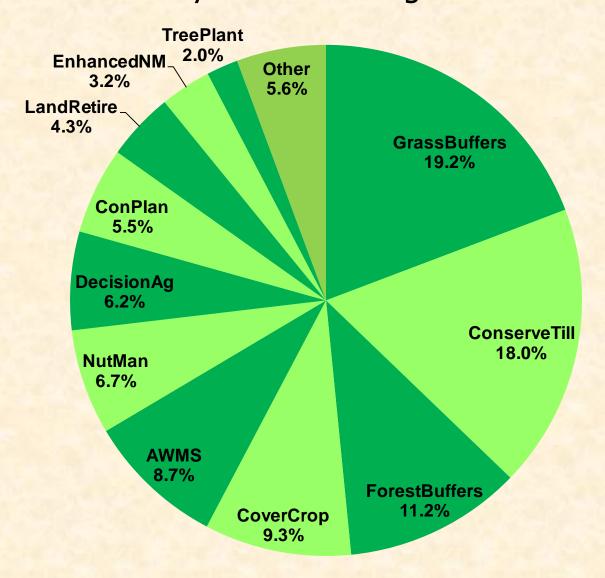


Agriculture Nitrogen Load Reduction by BMP

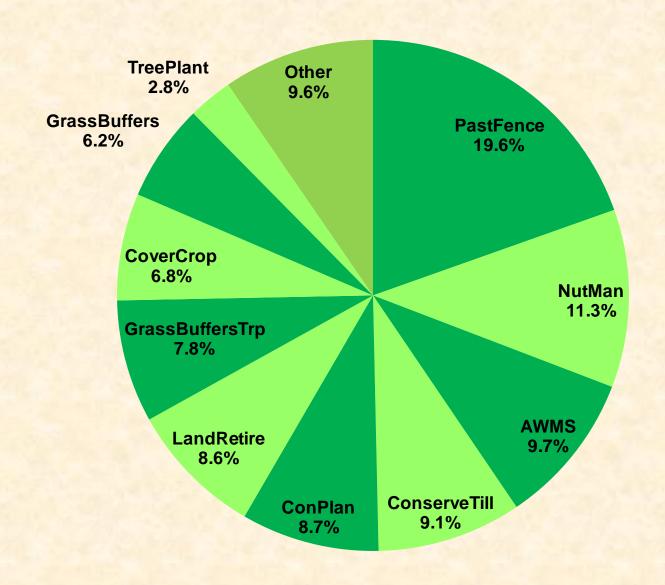


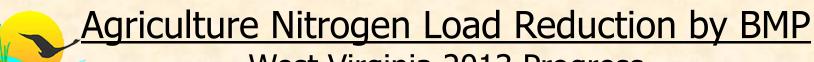


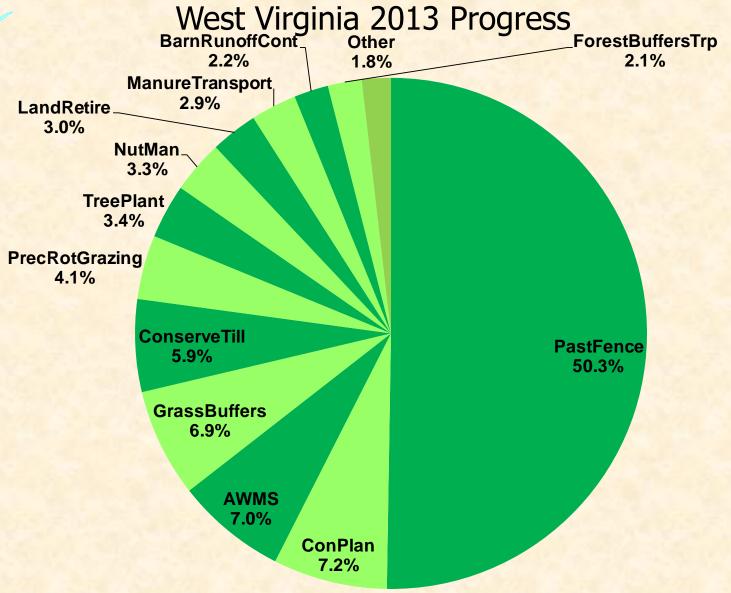
Agriculture Nitrogen Load Reduction by BMP Maryland 2013 Progress

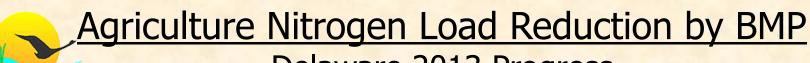


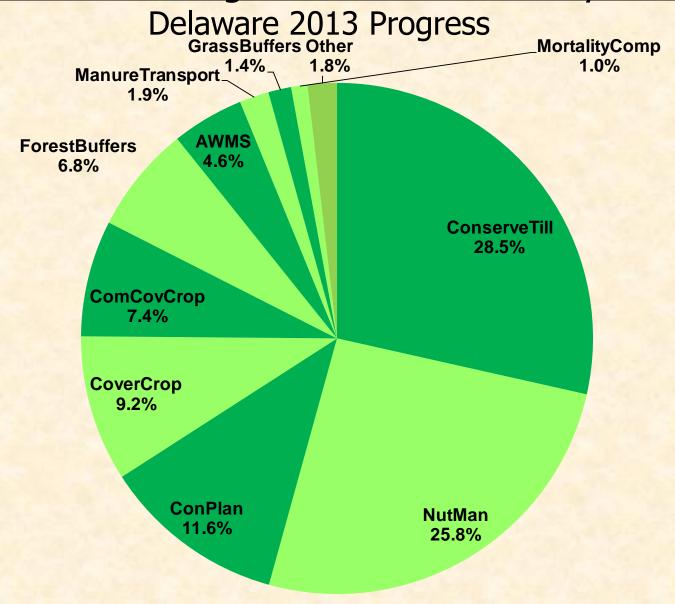
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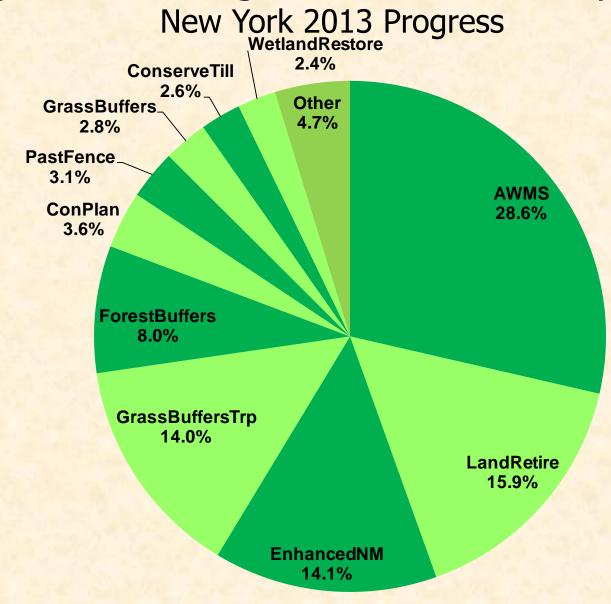








Agriculture Nitrogen Load Reduction by BMP



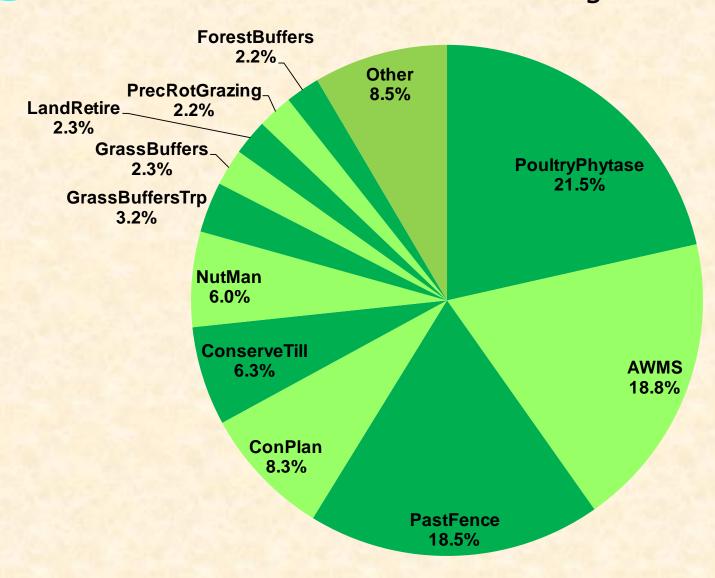




Agricultural Phosphorus Reductions

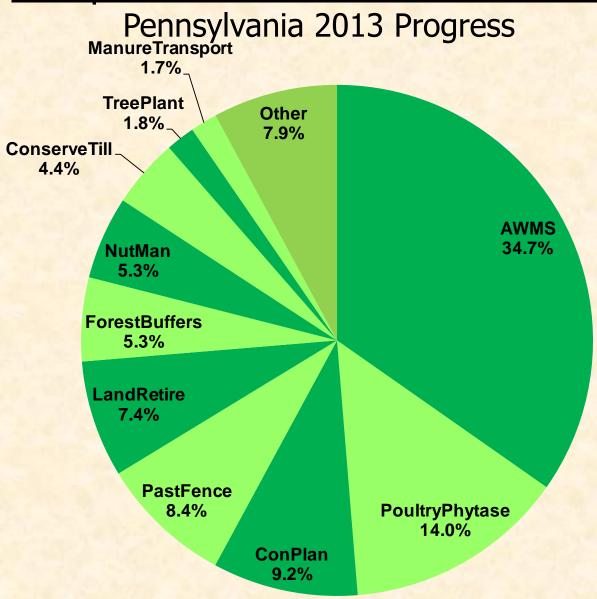
Relative influence of 2013
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Agriculture Phosphorus Load Reduction by BMP All Jurisdictions' – 2013 Progress

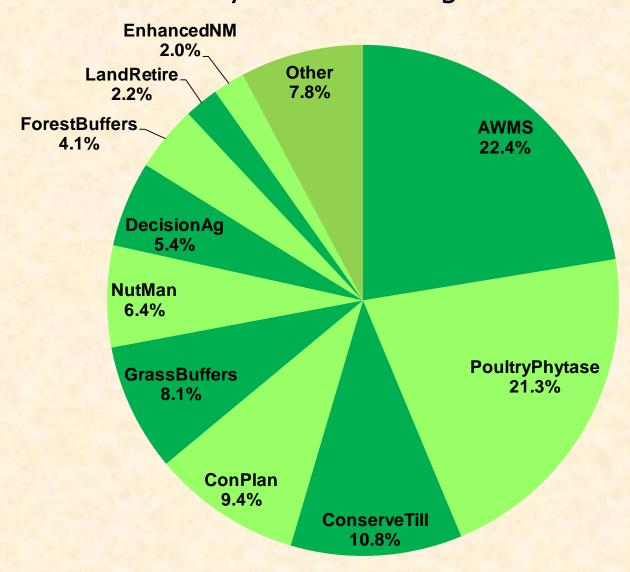


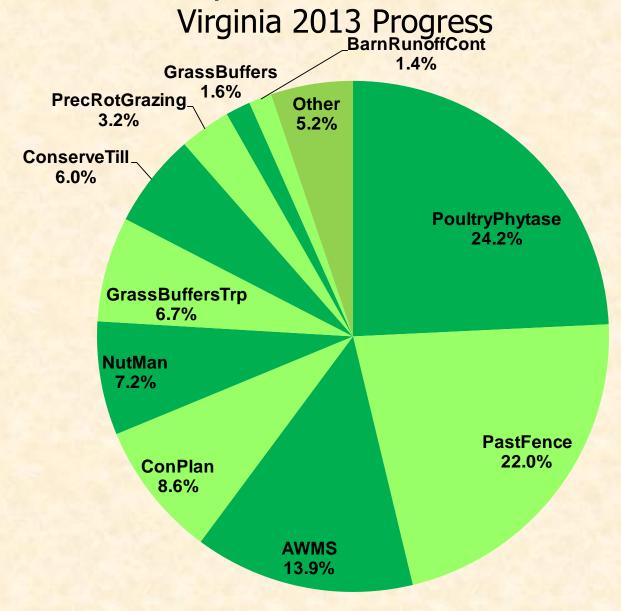


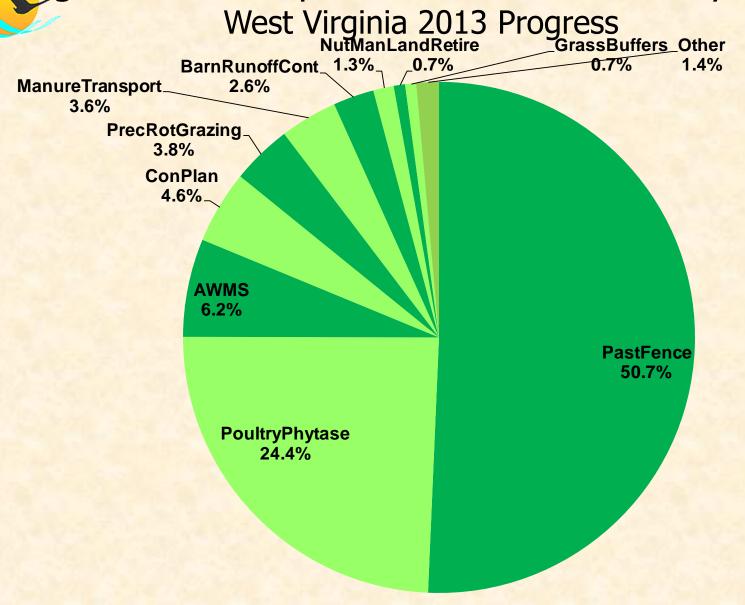
Phosphorus Relative Load Reductions

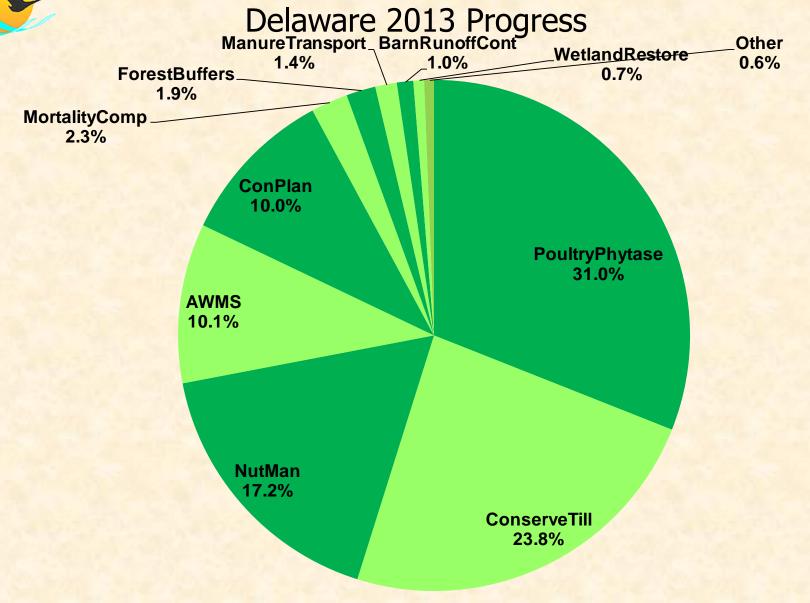


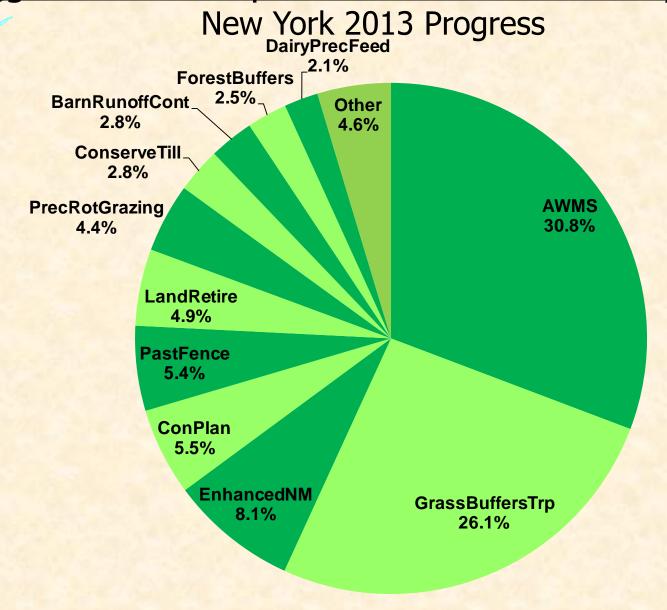
Agriculture Phosphorus Load Reduction by BMP Maryland 2013 Progress









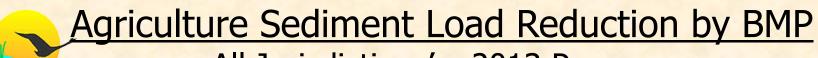


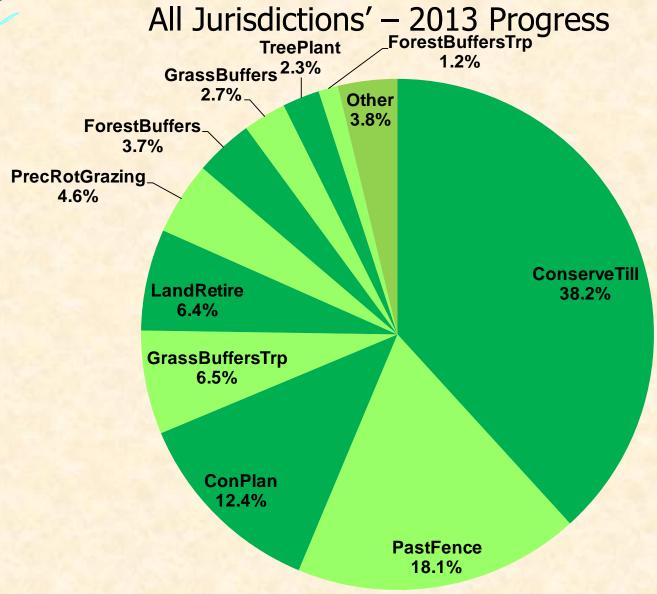


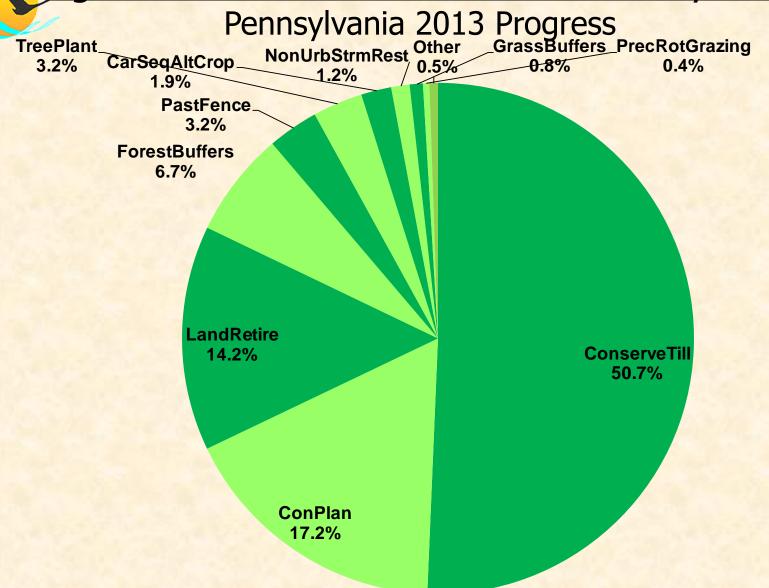


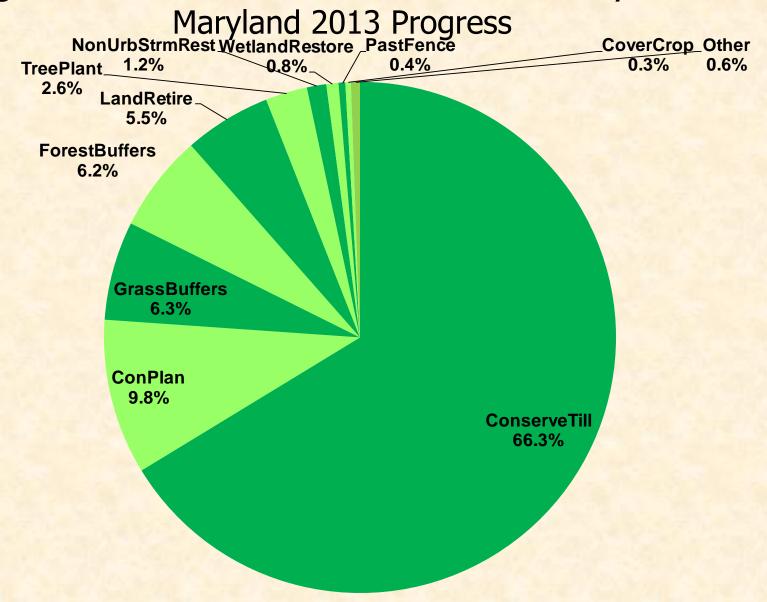
Agricultural Sediment (Total Suspended Solids) Reductions

Relative influence of 2013 Progress BMPs on load reductions

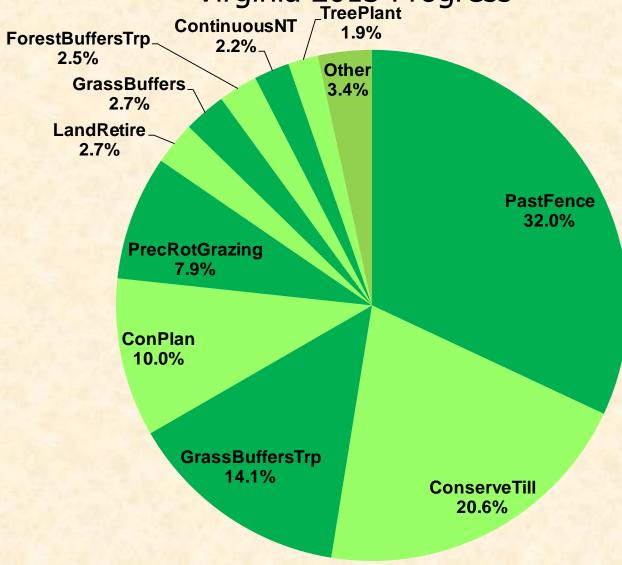


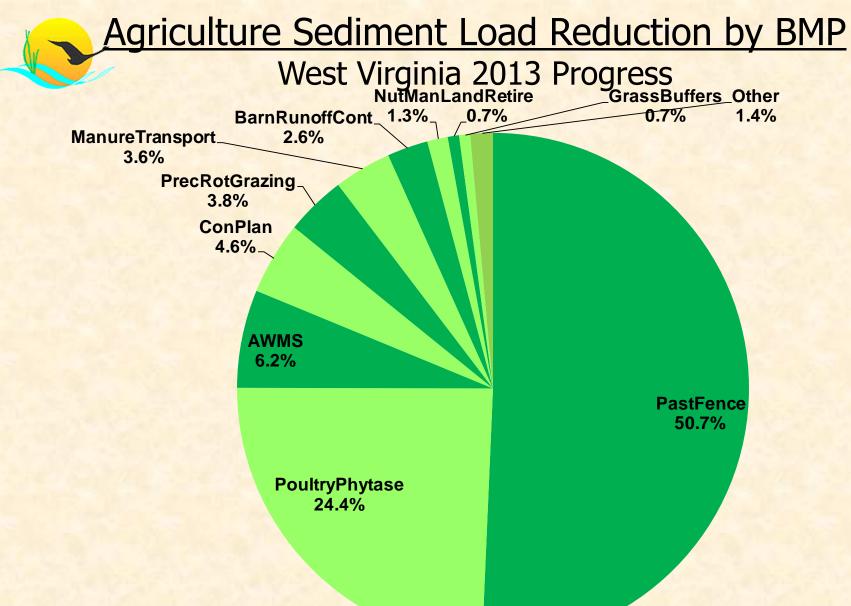












Agriculture Sediment Load Reduction by BMP Delaware 2013 Progress MetlandRestore TreePlant CoverCrop NonUrbStrmRest LandRetire_ 0.3% 0.6%_ 0.9% 0.2% 0.6% GrassBuffers_ ForestBuffers_ 1.0% 2.8% ConPlan 11.7% ConserveTill 81.9%

