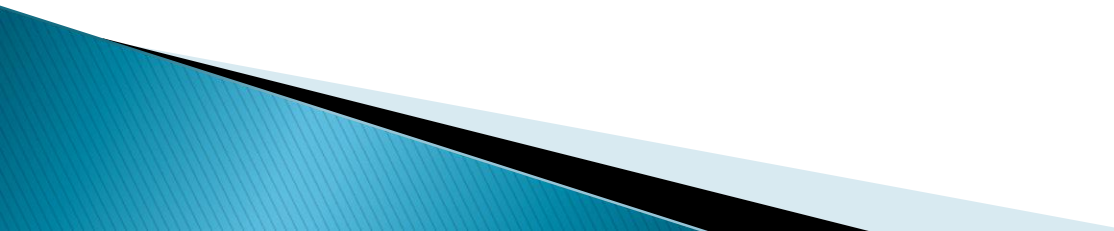


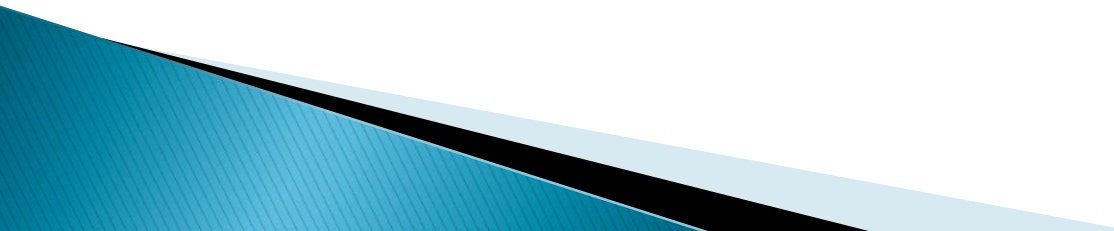


Relative Influence of BMPs To-Date on Load Reductions Agriculture Sector

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
PoultryInjection	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

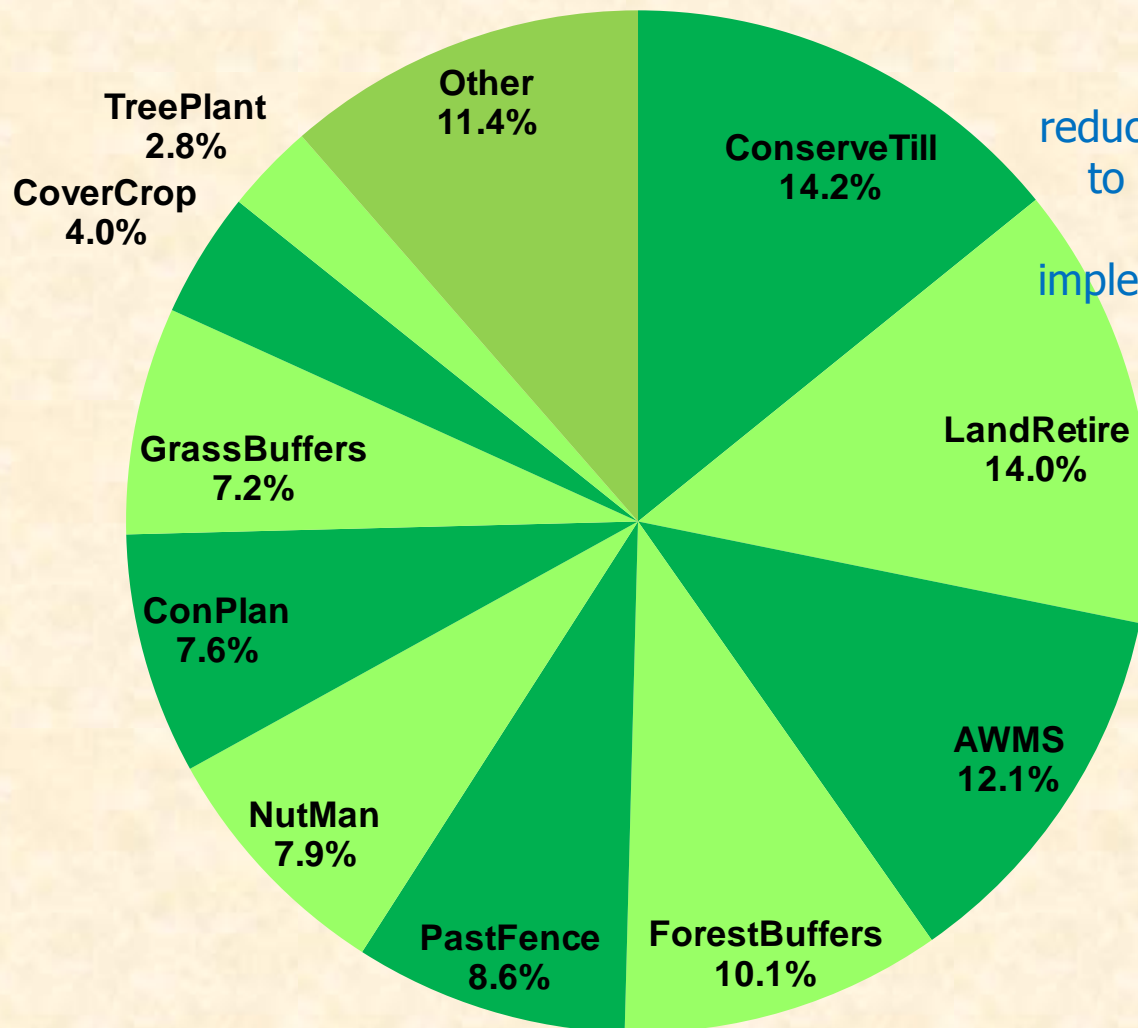
Relative influence of 2013
Progress BMPs
on load reductions



Agriculture Nitrogen Load Reduction by BMP

All Jurisdictions' – 2013 Progress

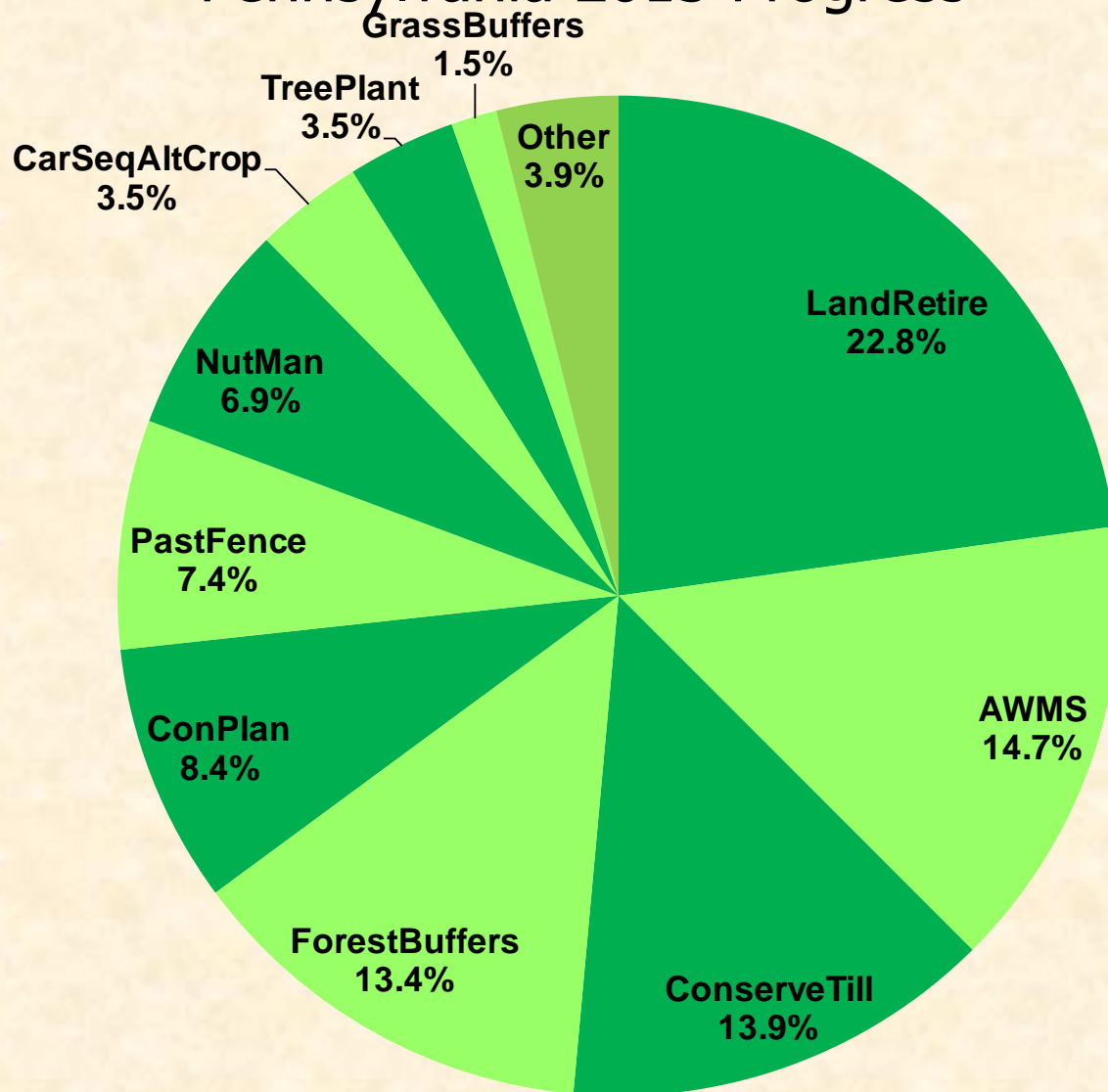
Each slice represents the percent of the total agricultural load reduction from No-Action to 2013 attributable to state-reported implementation levels for that BMP.





Agriculture Nitrogen Load Reduction by BMP

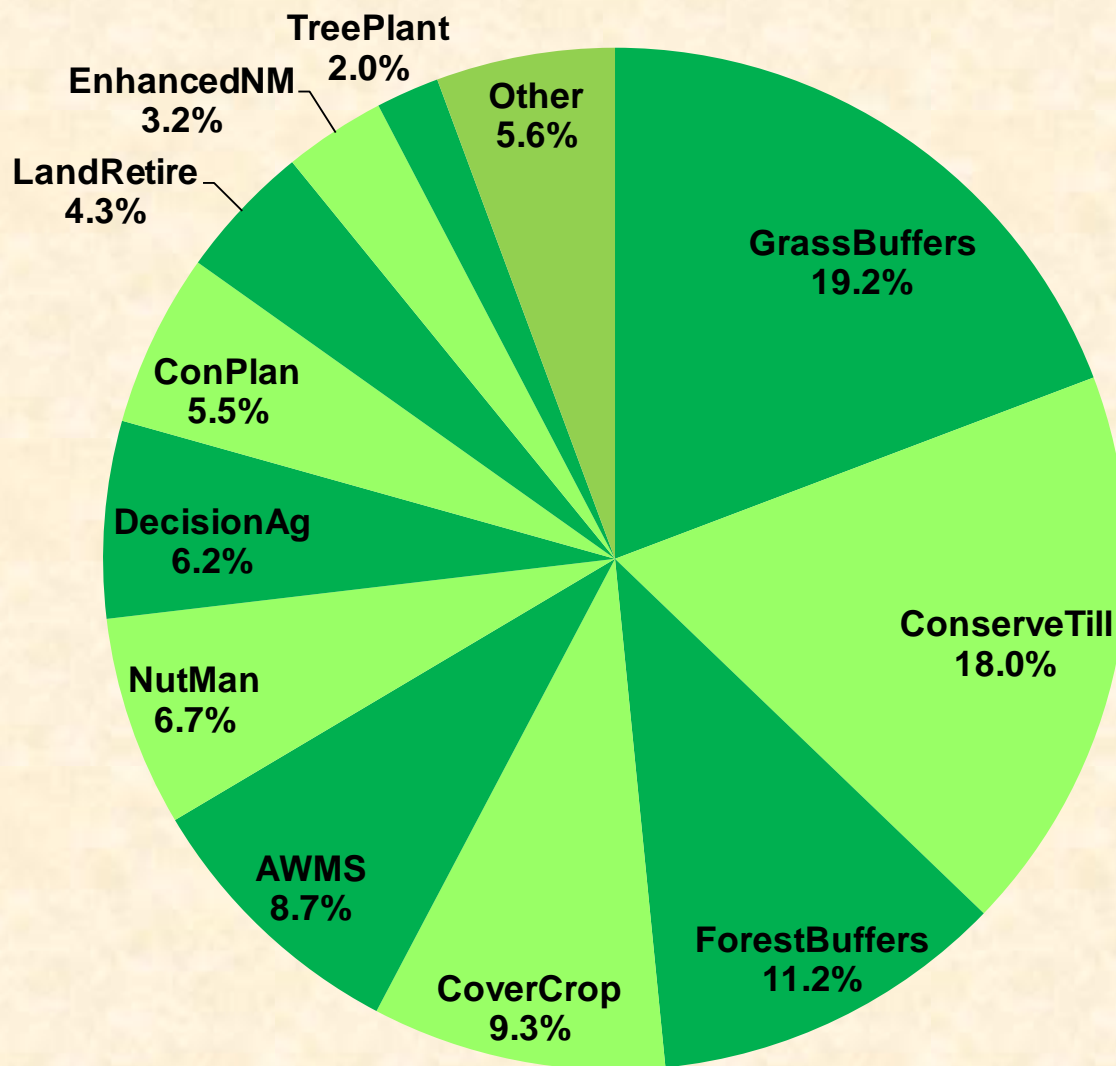
Pennsylvania 2013 Progress





Agriculture Nitrogen Load Reduction by BMP

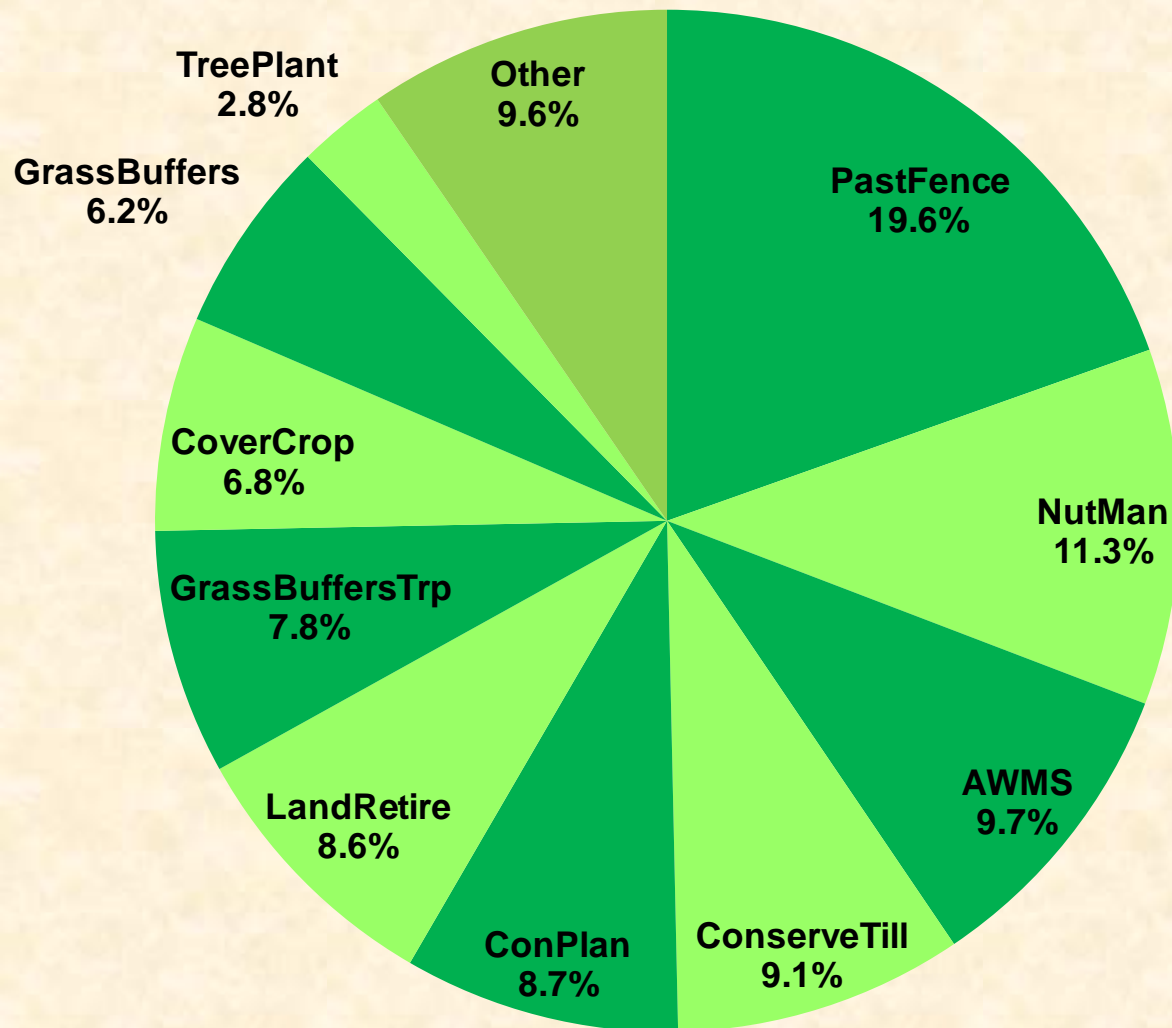
Maryland 2013 Progress





Agriculture Nitrogen Load Reduction by BMP

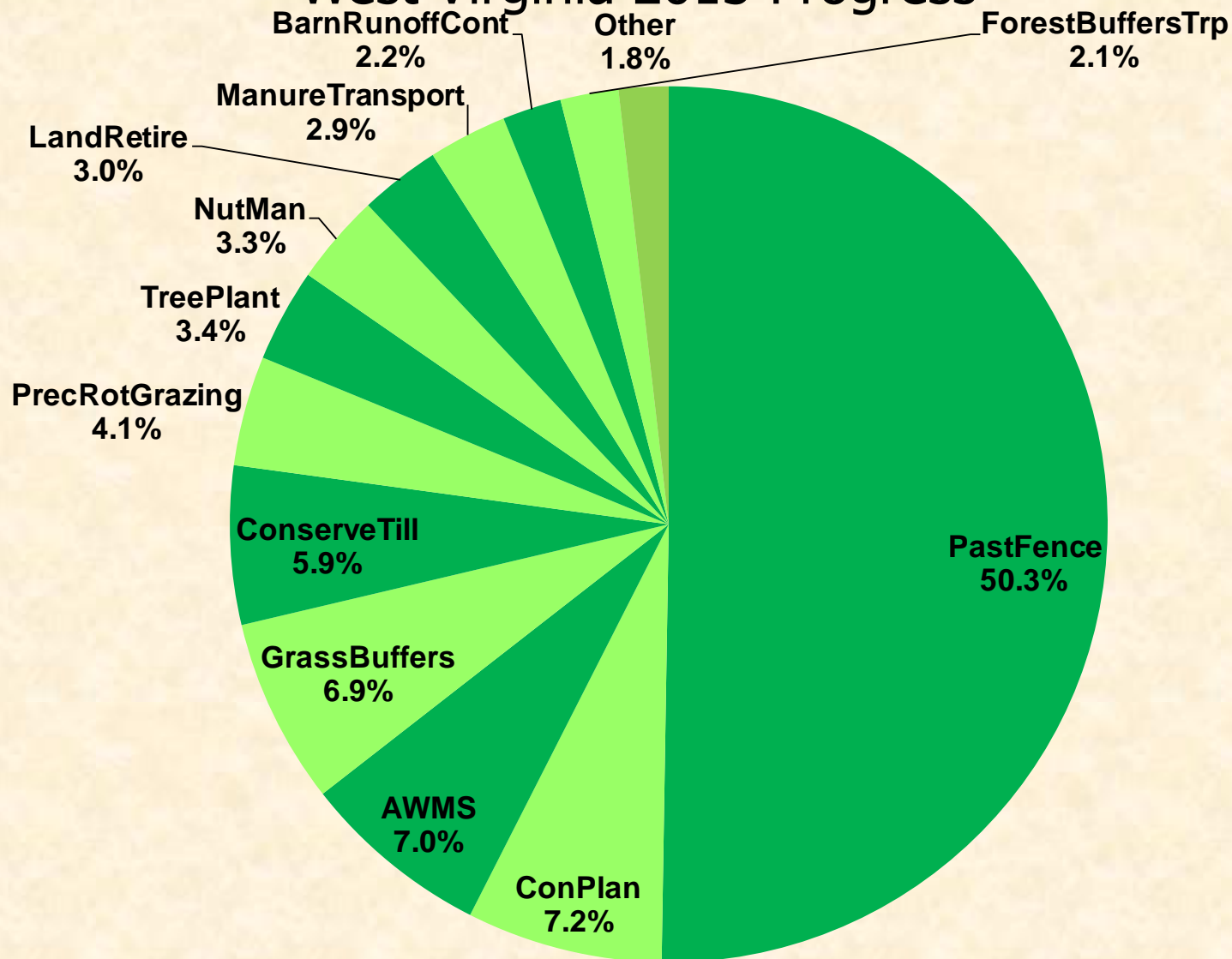
Virginia 2013 Progress





Agriculture Nitrogen Load Reduction by BMP

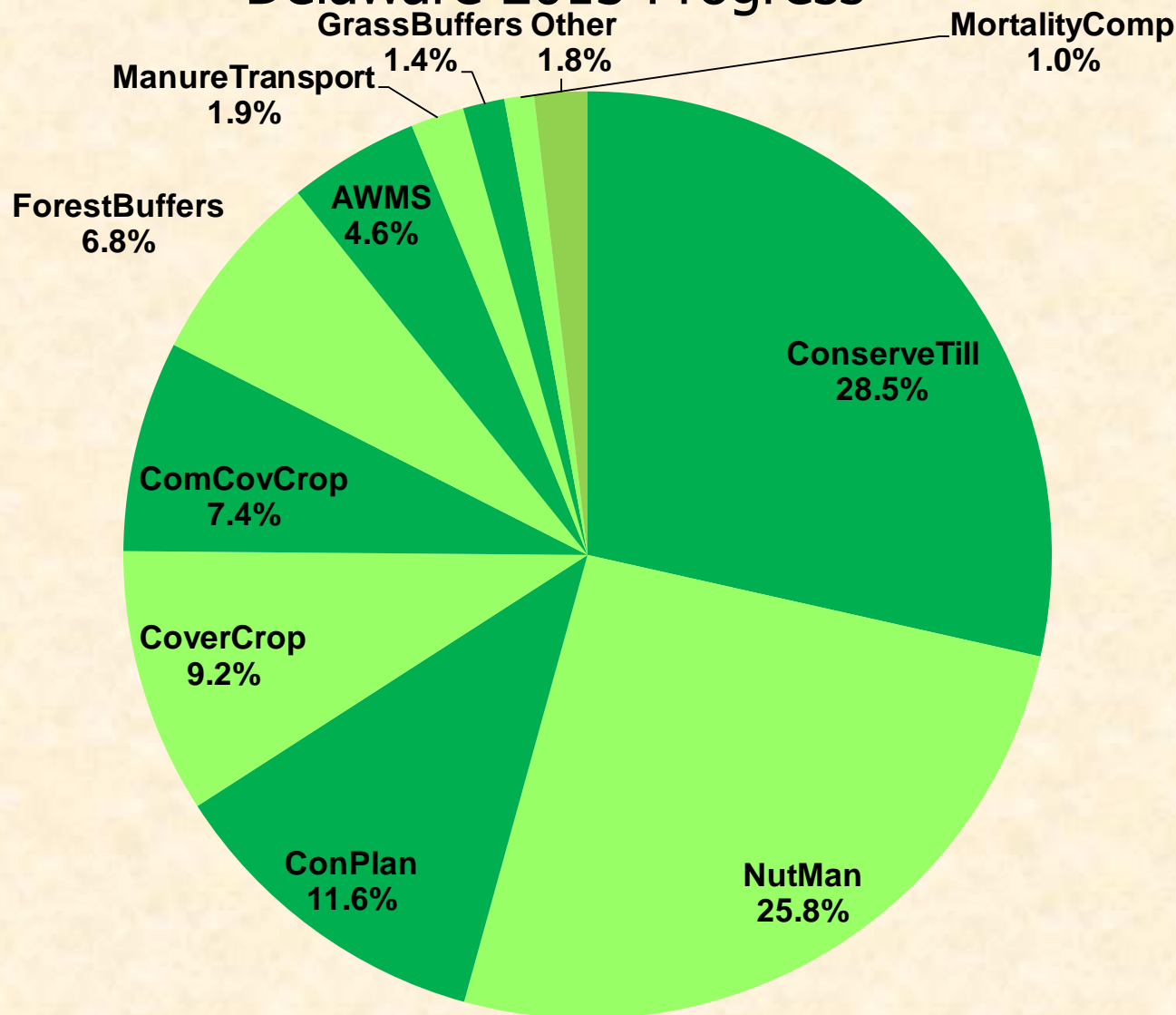
West Virginia 2013 Progress





Agriculture Nitrogen Load Reduction by BMP

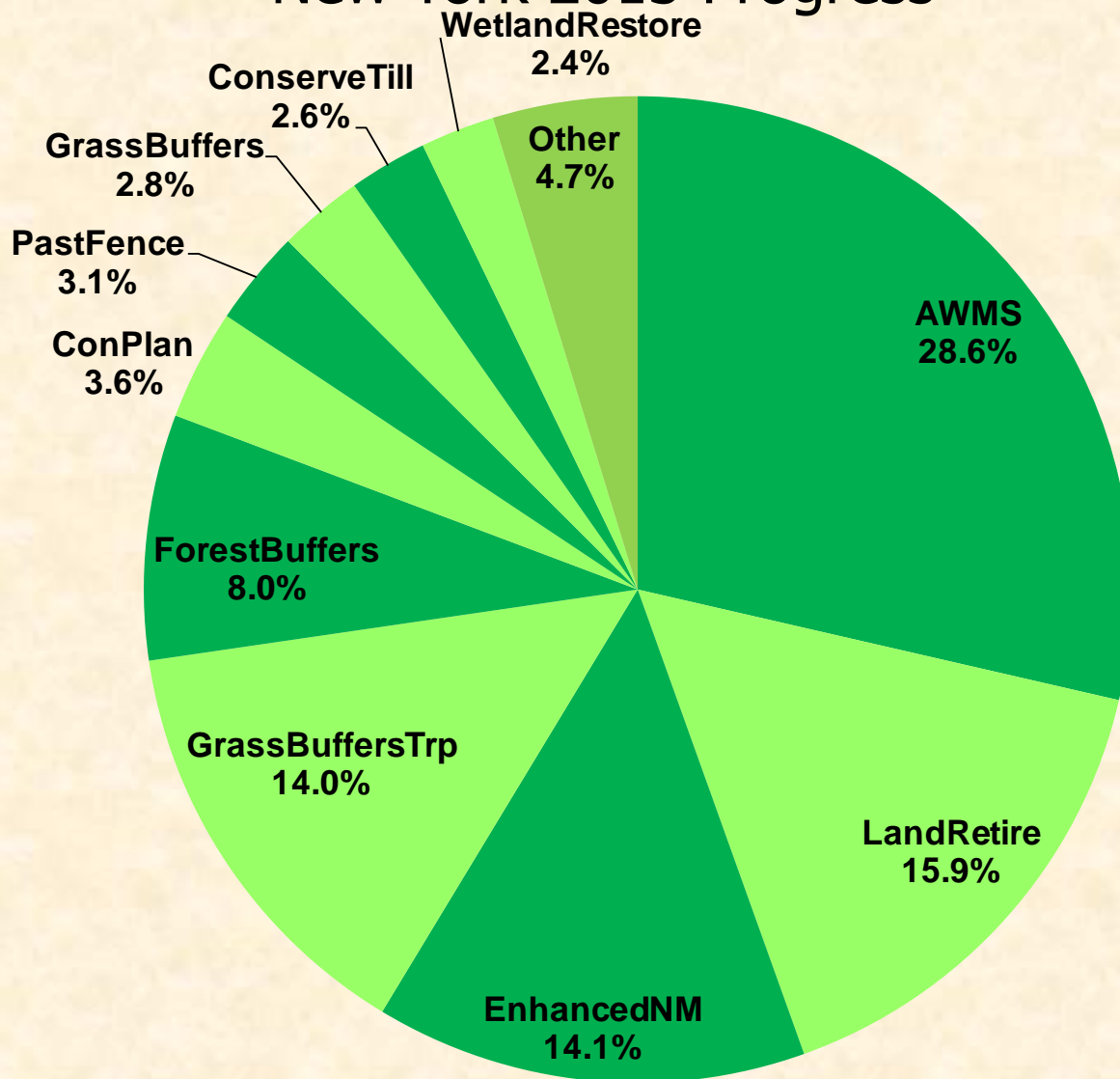
Delaware 2013 Progress





Agriculture Nitrogen Load Reduction by BMP

New York 2013 Progress





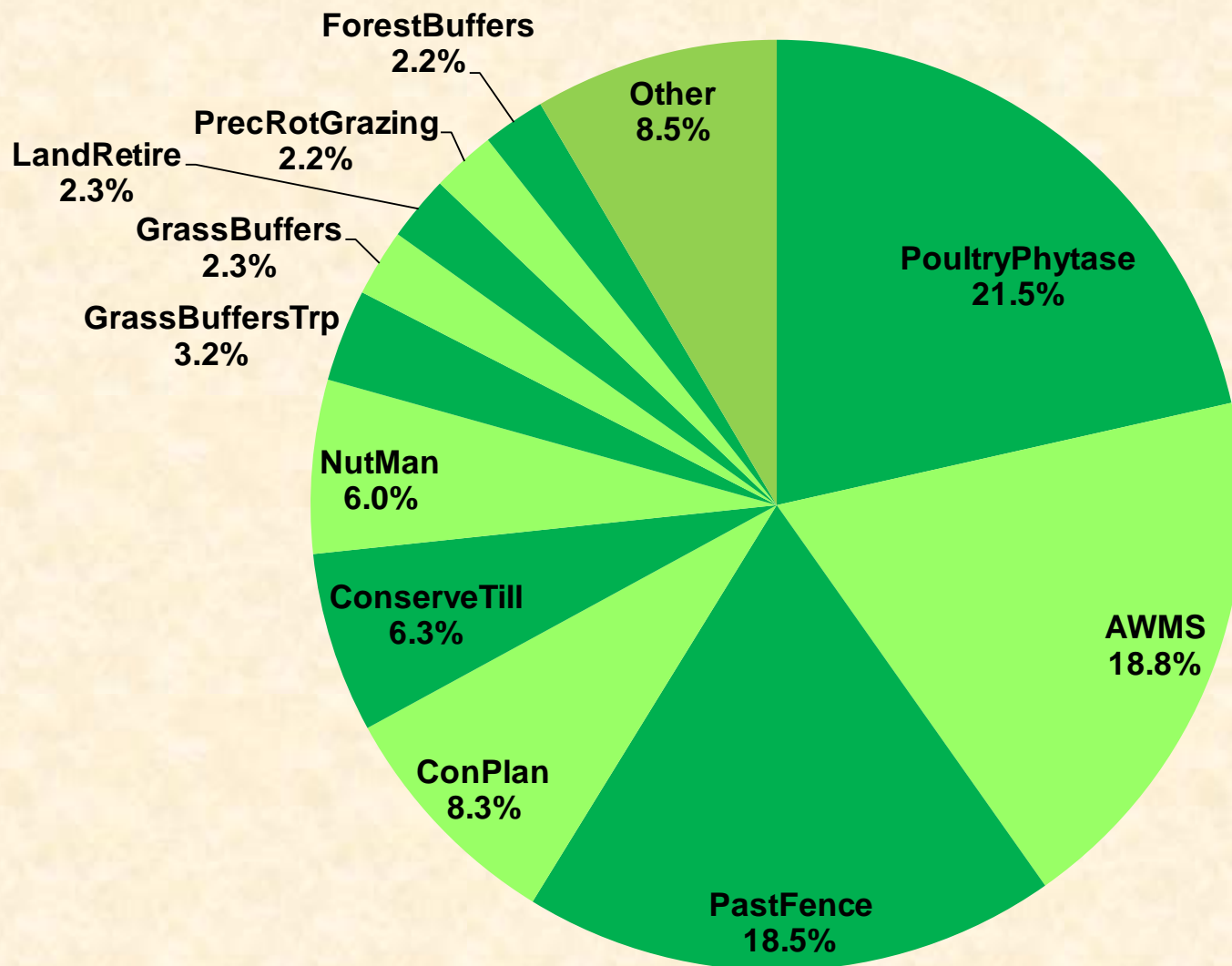
Agricultural Phosphorus Reductions

Relative influence of 2013
Progress BMPs
on load reductions



Agriculture Phosphorus Load Reduction by BMP

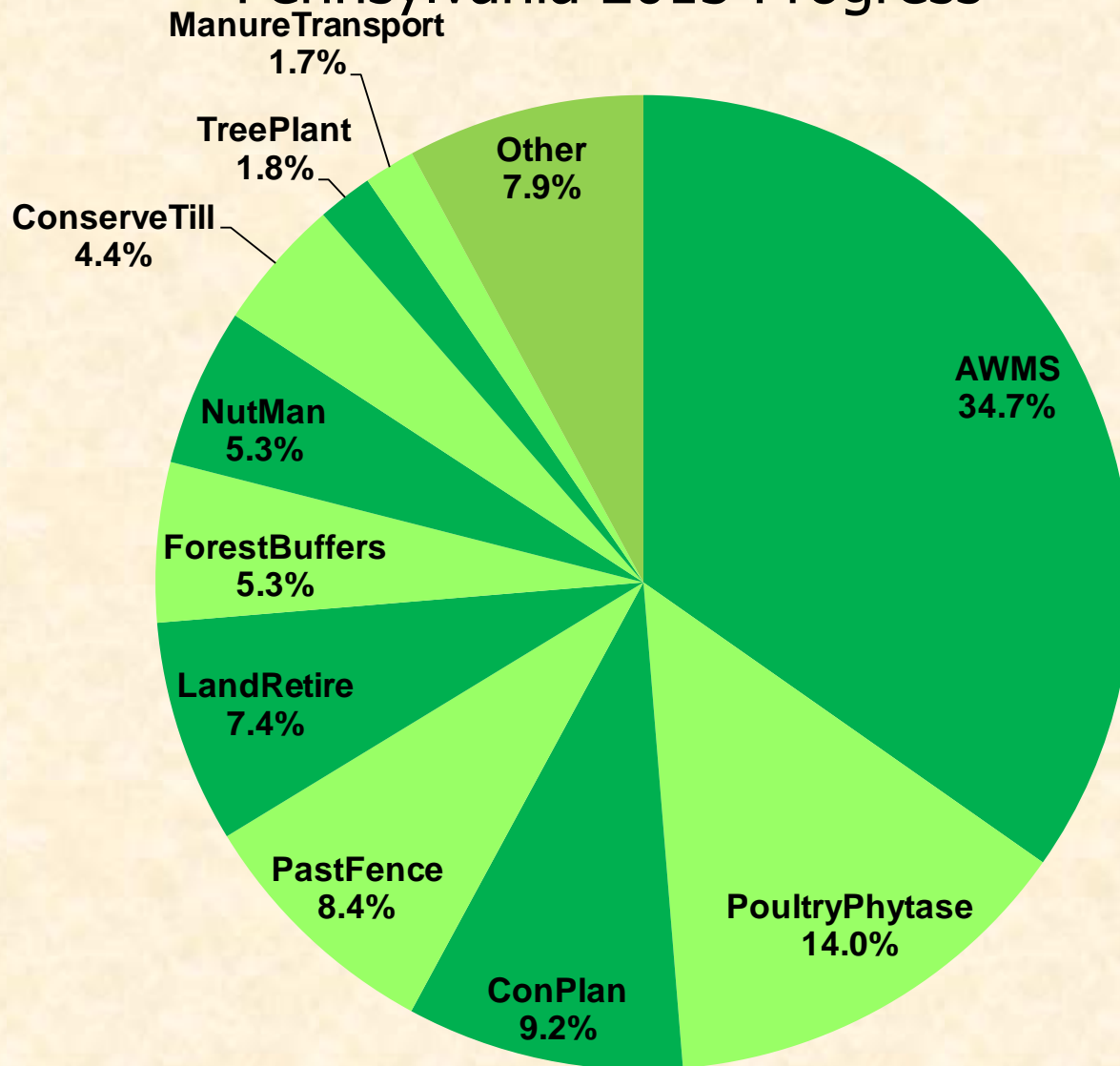
All Jurisdictions' – 2013 Progress





Phosphorus Relative Load Reductions

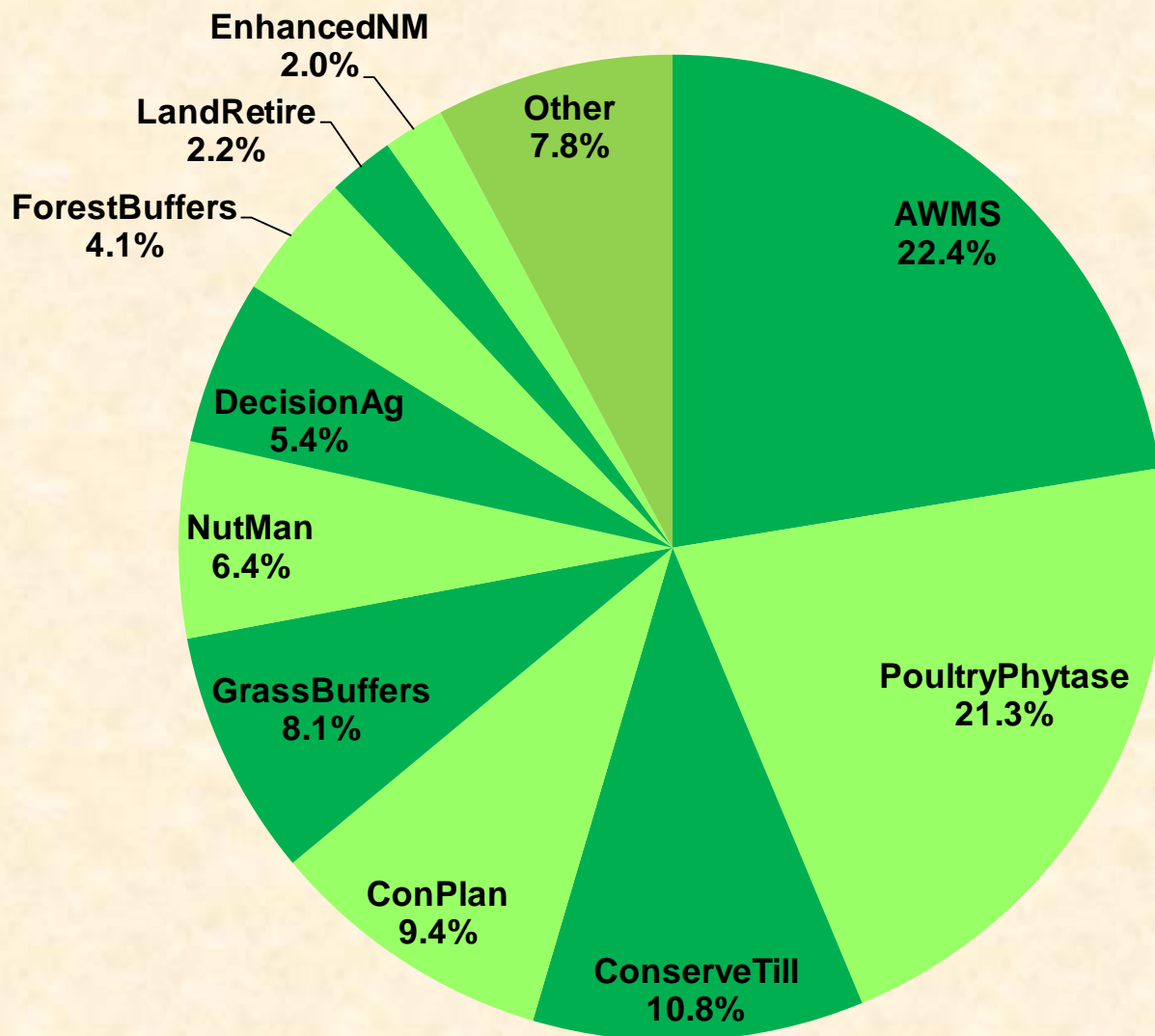
Pennsylvania 2013 Progress





Agriculture Phosphorus Load Reduction by BMP

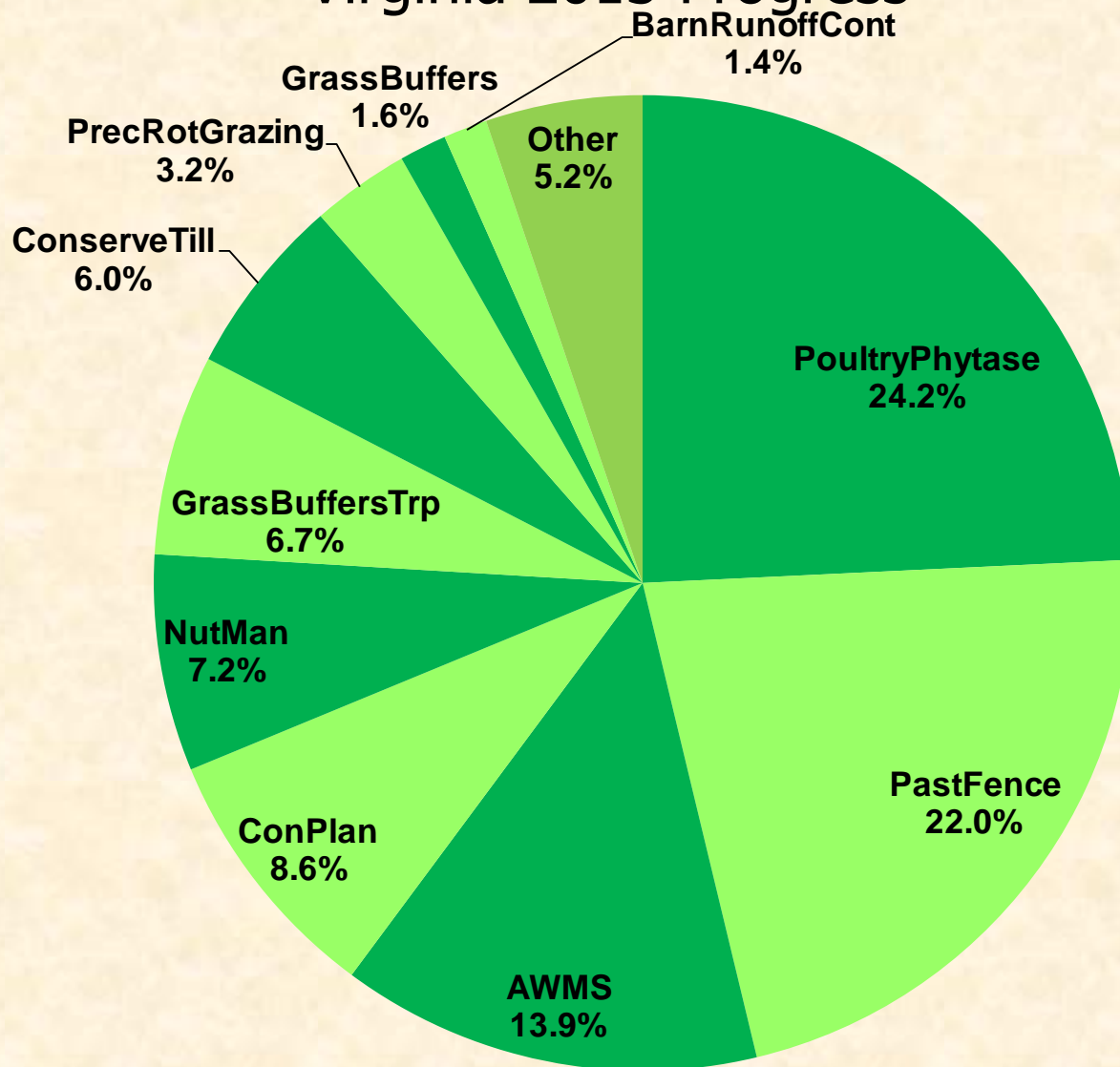
Maryland 2013 Progress





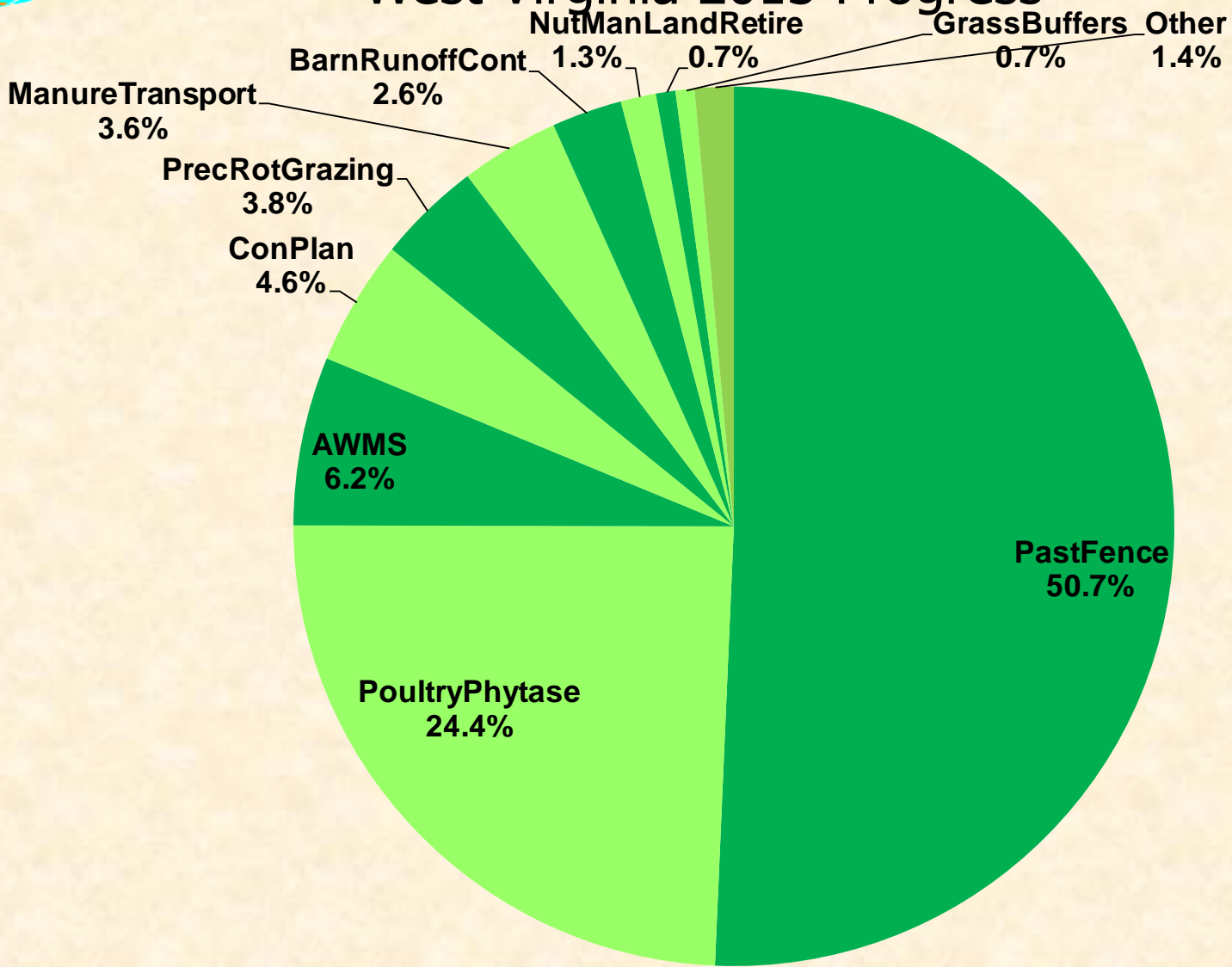
Agriculture Phosphorus Load Reduction by BMP

Virginia 2013 Progress



Agriculture Phosphorus Load Reduction by BMP

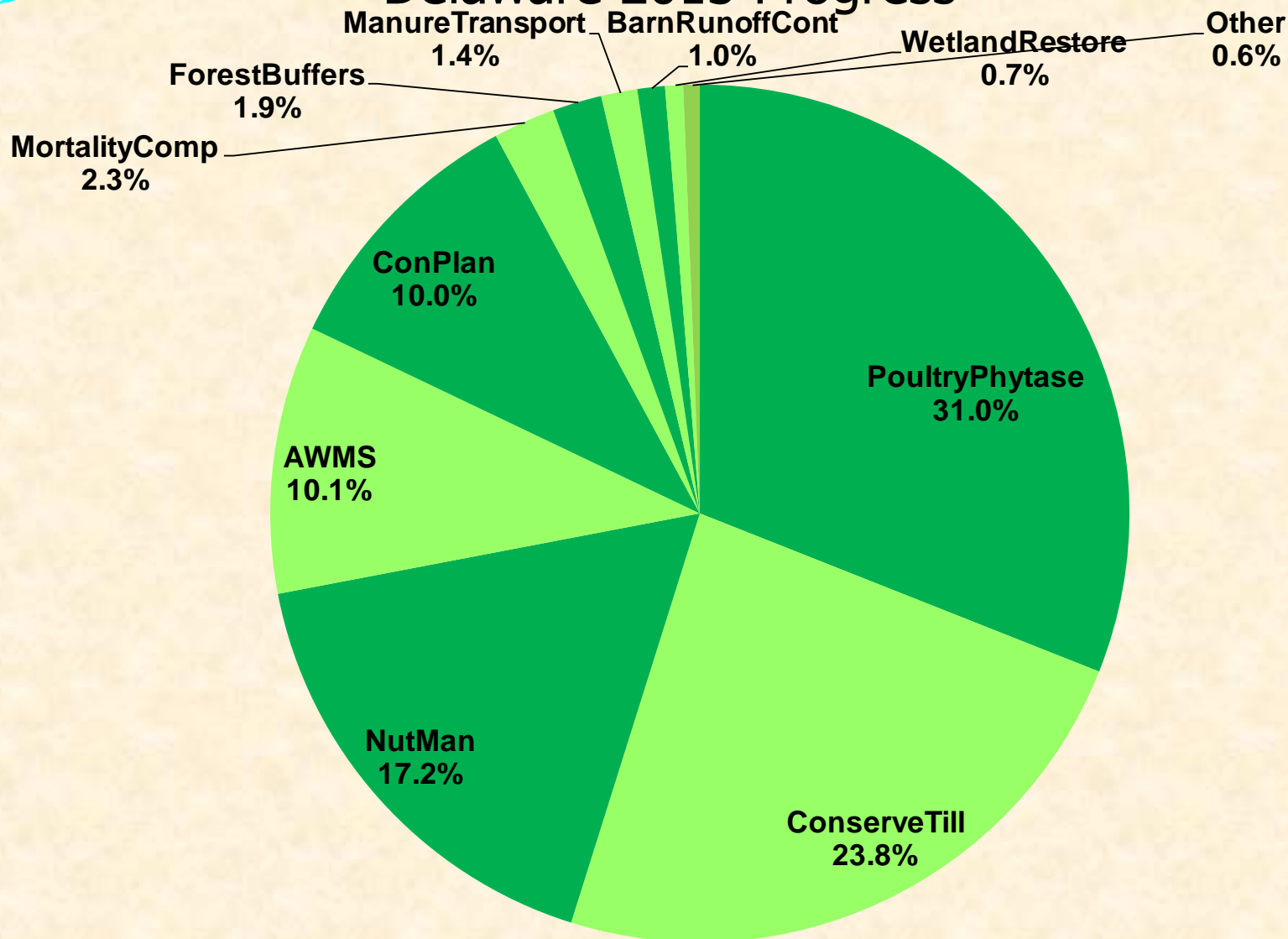
West Virginia 2013 Progress





Agriculture Phosphorus Load Reduction by BMP

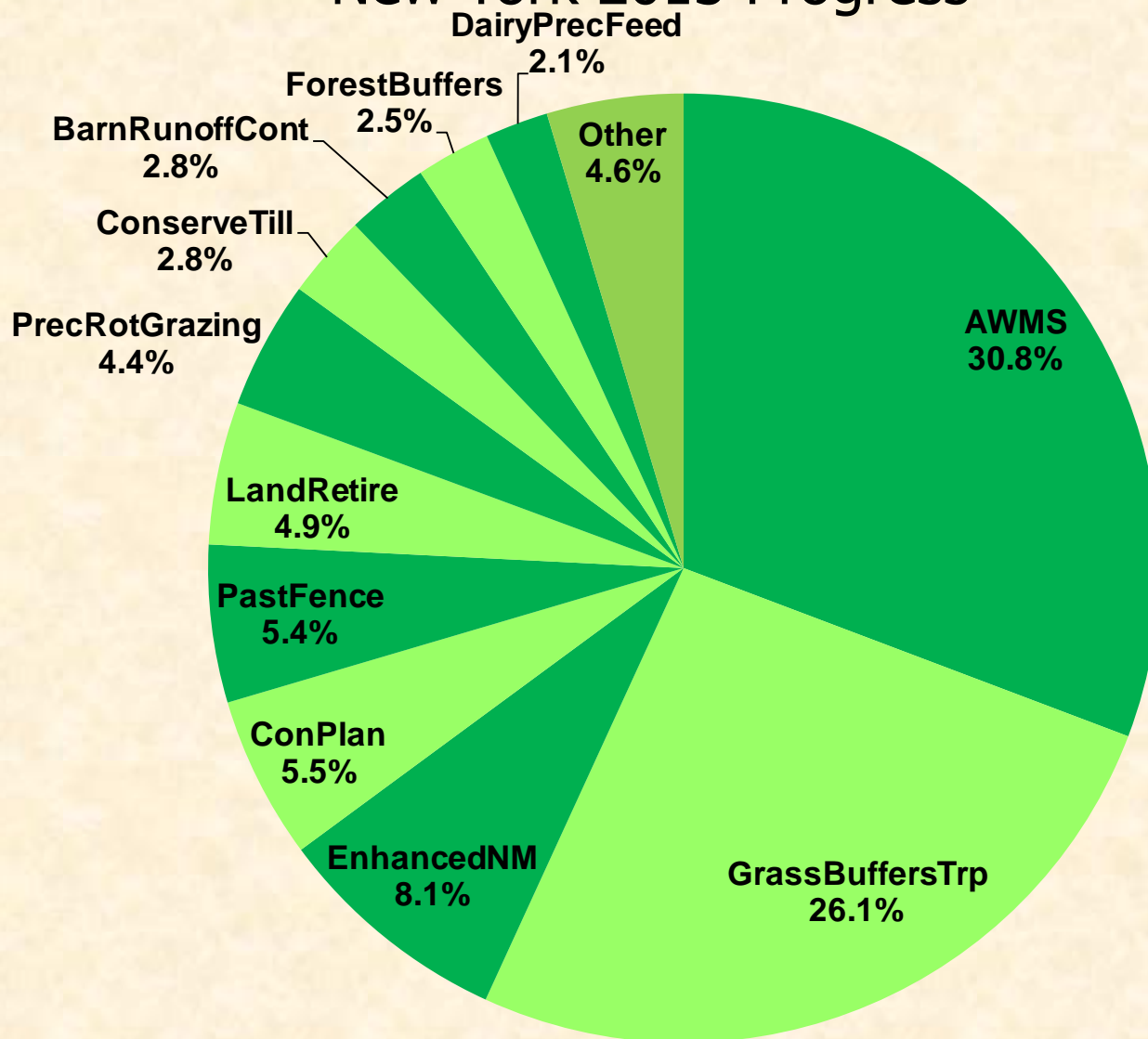
Delaware 2013 Progress





Agriculture Phosphorus Load Reduction by BMP

New York 2013 Progress





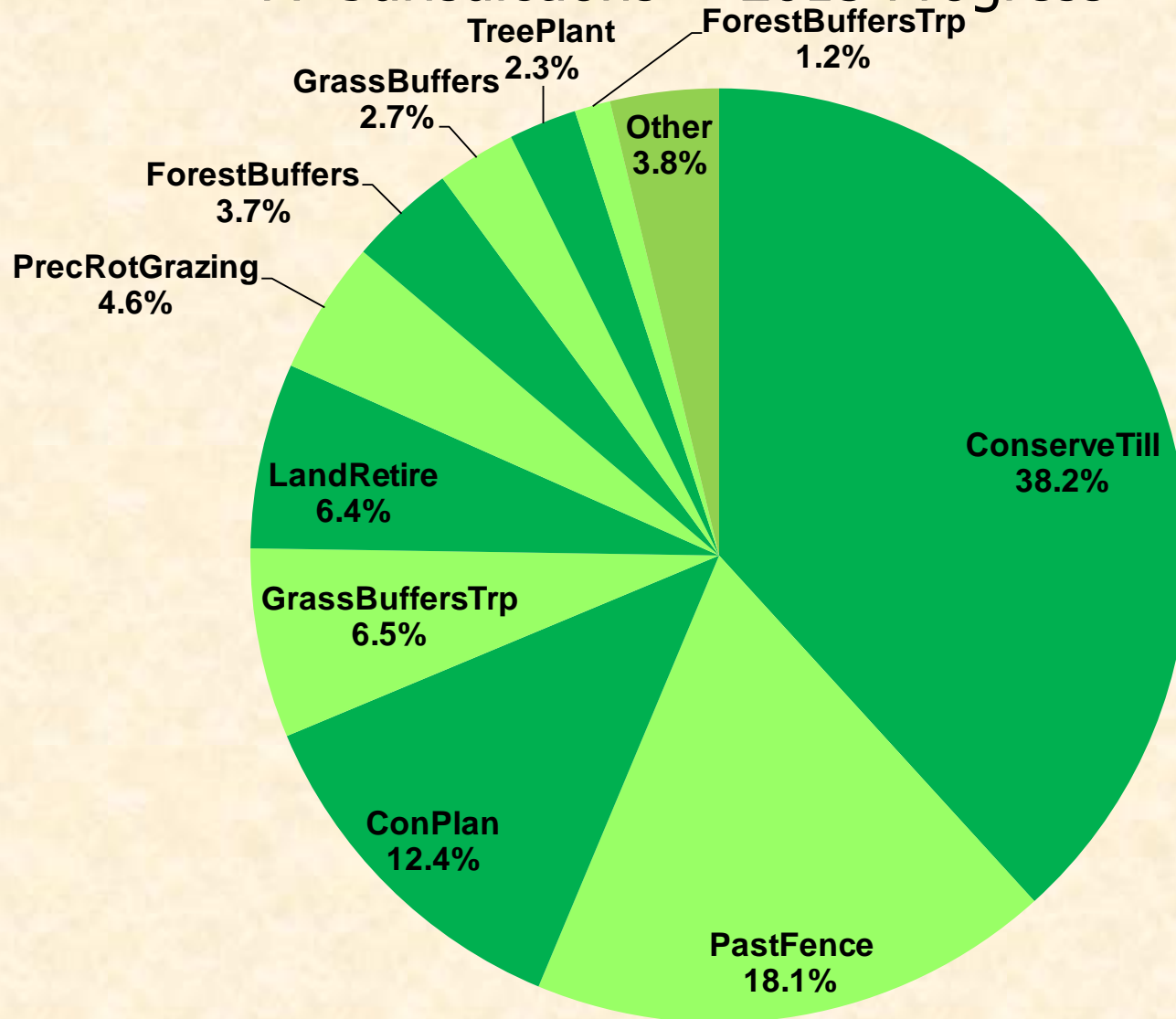
Agricultural Sediment (Total Suspended Solids) Reductions

Relative influence of 2013
Progress BMPs on load reductions



Agriculture Sediment Load Reduction by BMP

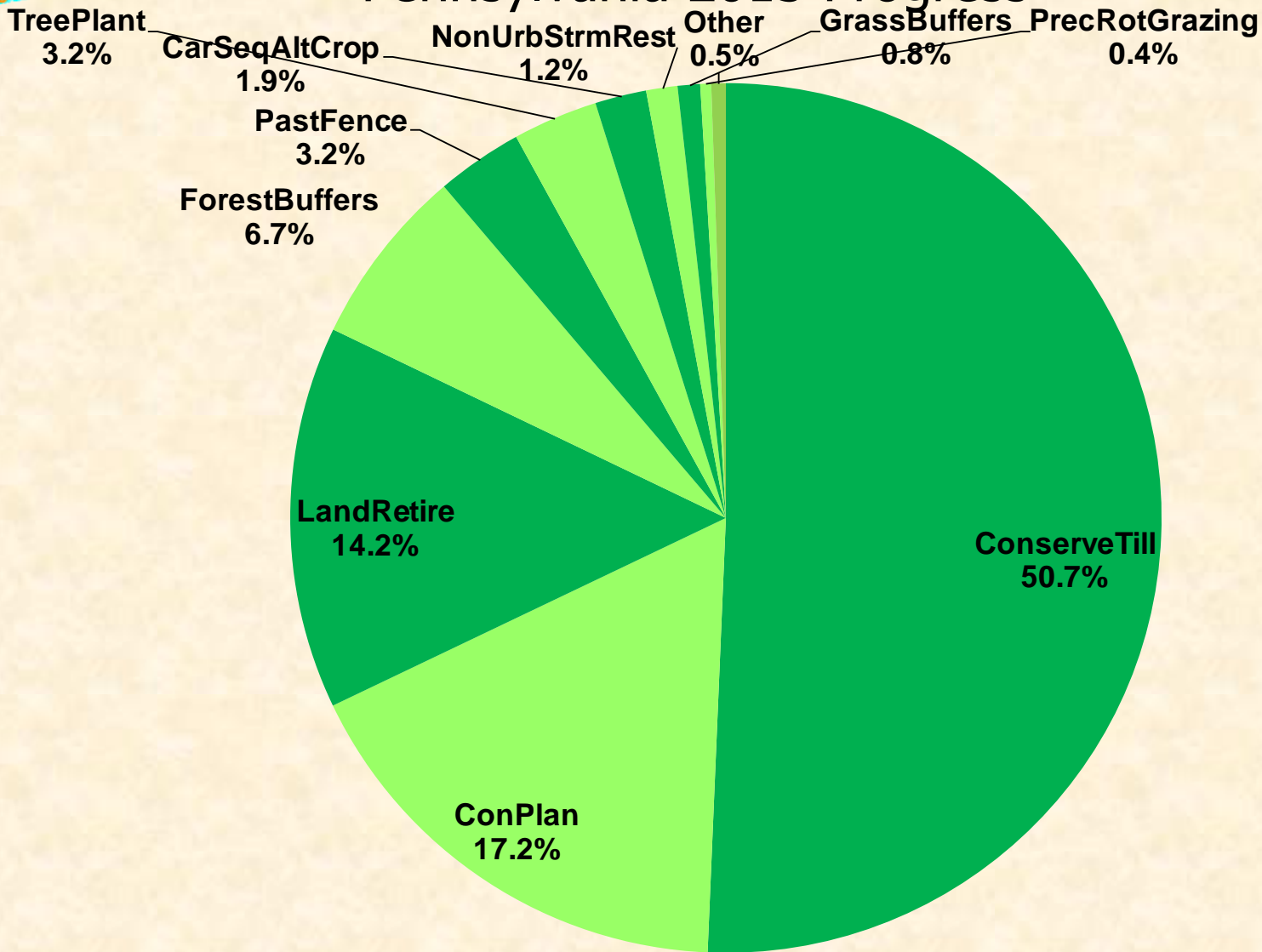
All Jurisdictions' – 2013 Progress





Agriculture Sediment Load Reduction by BMP

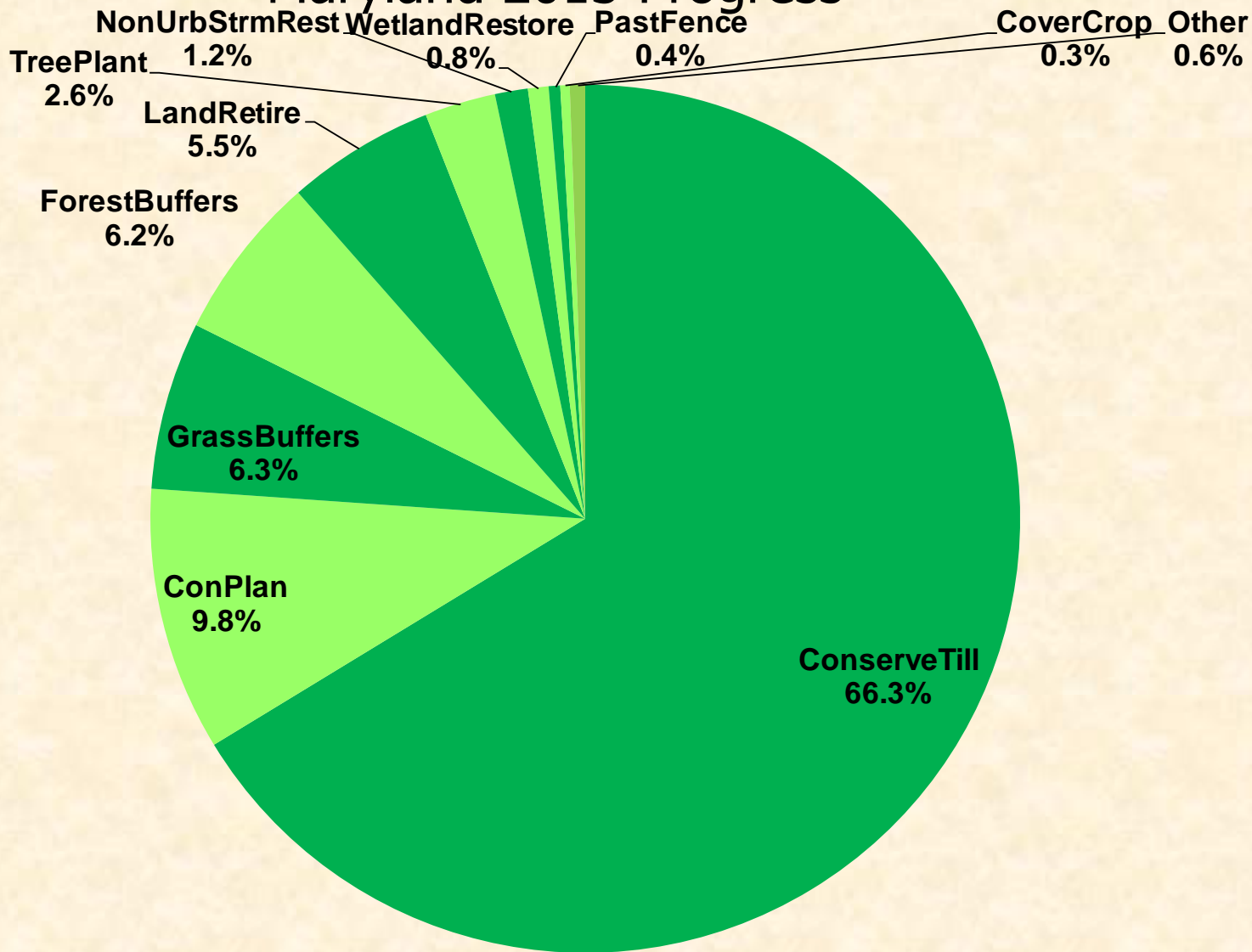
Pennsylvania 2013 Progress





Agriculture Sediment Load Reduction by BMP

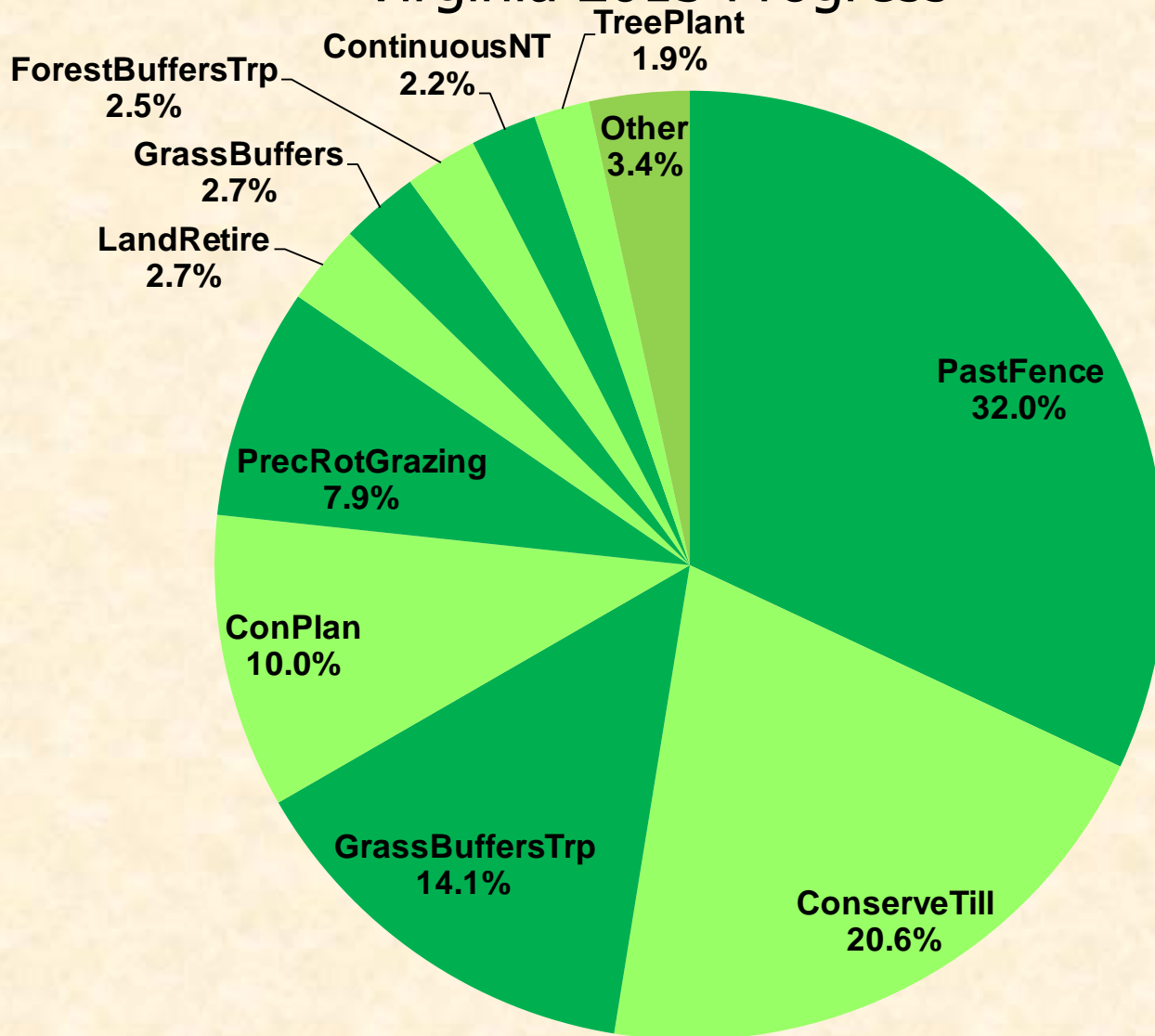
Maryland 2013 Progress





Agriculture Sediment Load Reduction by BMP

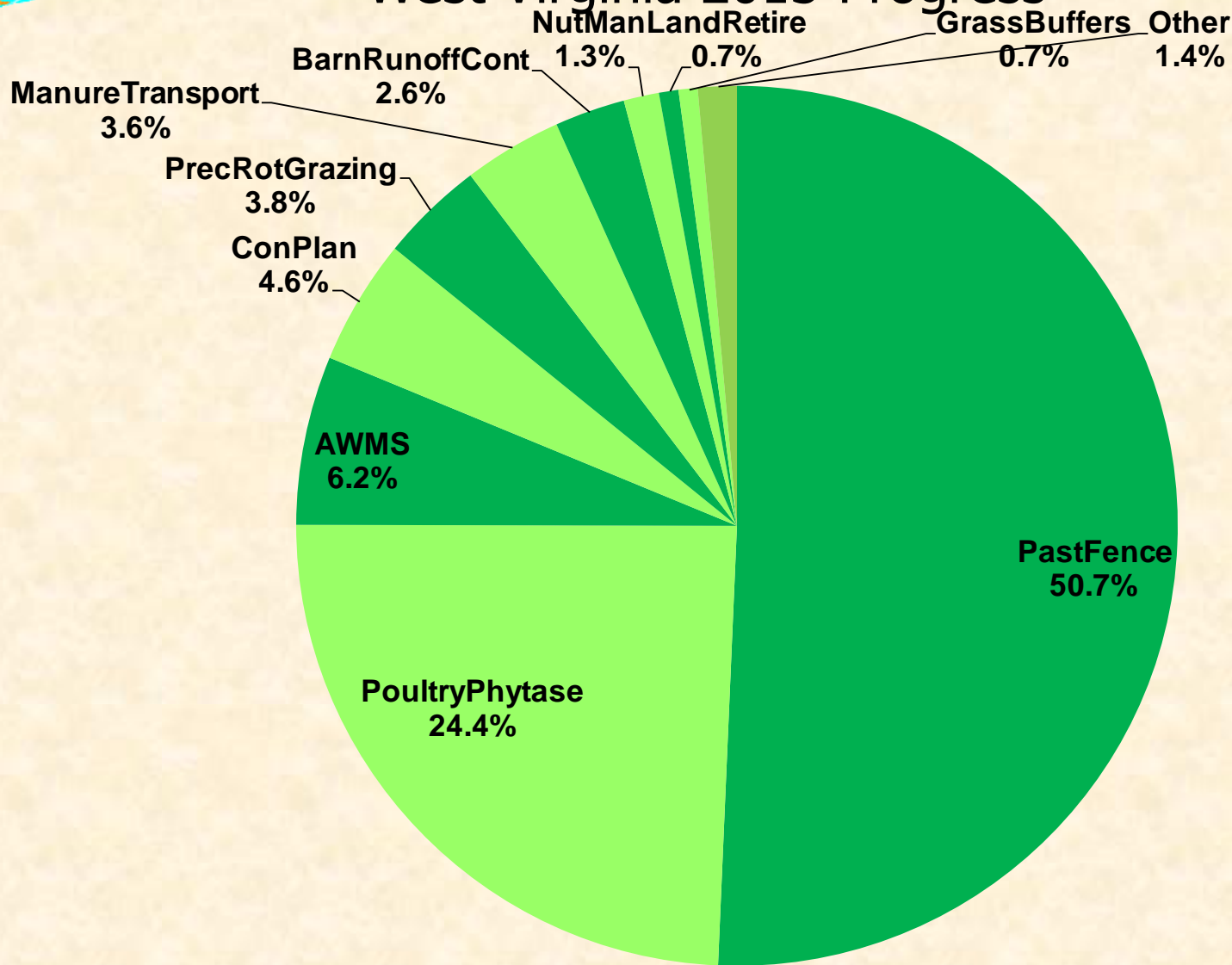
Virginia 2013 Progress





Agriculture Sediment Load Reduction by BMP

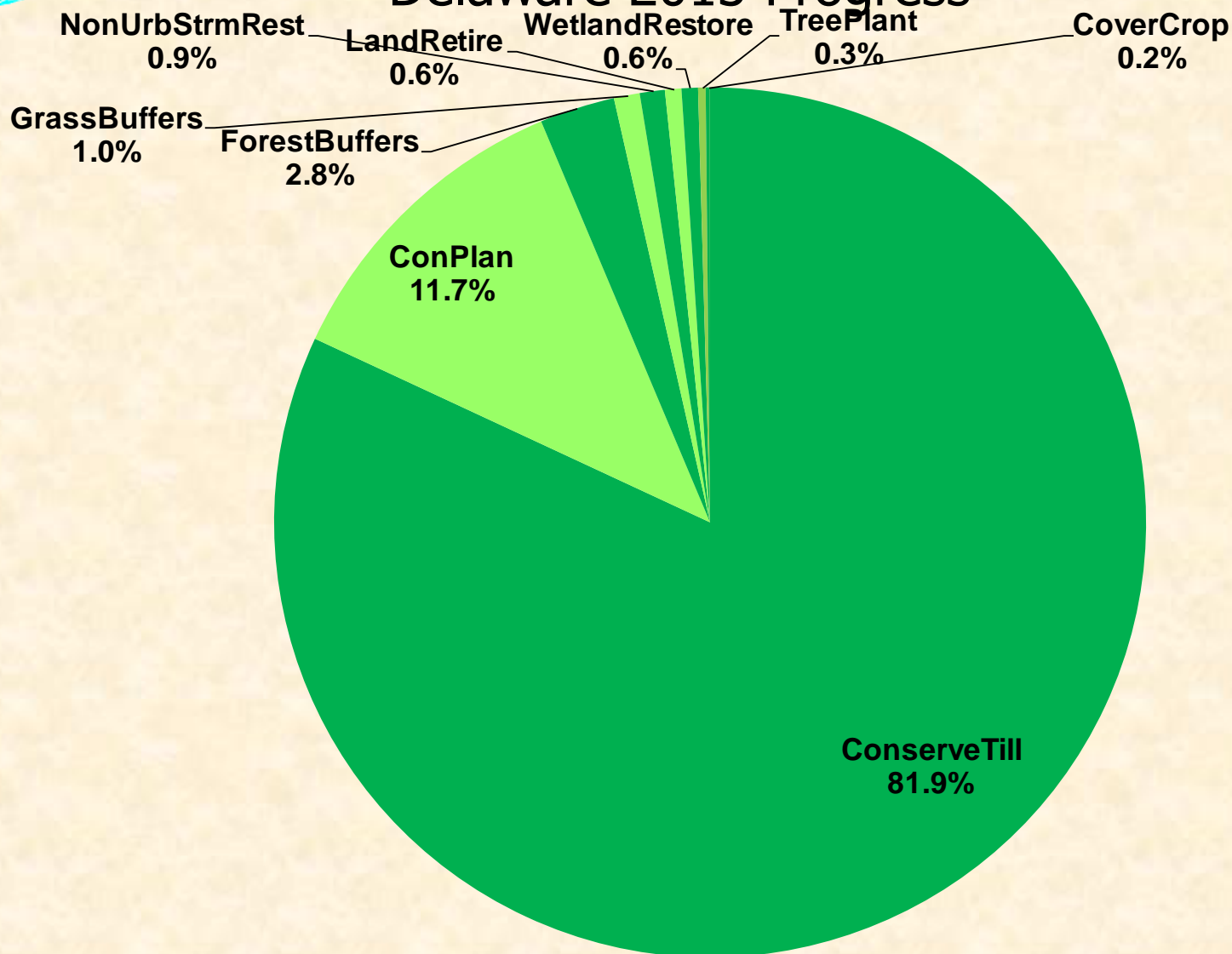
West Virginia 2013 Progress





Agriculture Sediment Load Reduction by BMP

Delaware 2013 Progress





Agriculture Sediment Load Reduction by BMP

New York 2013 Progress

