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Non-Point Source Best Management Practices and Efficiencies currently used in Scenario Builder

Values in parentheses are in progress of official approval

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Agriculture BMPs		How Credited	TN Reduction Efficiency	TP Reduction Efficiency	SED Reduction Efficiency
Nutrient Management		Landuse Change	N/A	N/A	N/A
Forest Buffers (varies by reg	ion; see Appendix 2)	Efficiency, Landuse Change	19-65%	30-45%	40-60%
Wetland Restoration (varies b	by region; see Appendix 2)	Efficiency	7-25%	12-50%	4-15%
Land Retirement		Landuse Change	N//A	N/A	N/A
Grass Buffers (varies by regi	on; see Appendix 2)	Efficiency, Landuse Change	13-46%	30-45%	40-60%
Non-Urban Stream Restoration		Mass reduction/length	0.02 lb/ft	0.003 lb/ft	2 lb/ft
Tree Planting		Landuse Change	N/A	N/A	N/A
Carbon Sequestration/Alterna	ative Crops	Landuse Change	N/A	N/A	N/A
Conservation Tillage		Landuse Change	N/A	N/A	N/A
Continuous No-Till (varies by	region; see Appendix 2)	Efficiency	(10-15%)	(20-40%)	(70%)
Enhanced Nutrient Managem	ent	Efficiency	(7%)	(N/A)	(N/A)
Decision Agriculture		Efficiency	(4%)	(N/A)	(N/A)
	High-till	Efficiency	8%	15%	25%
Conservation Plans	Low-till	Efficiency	3%	5%	8%
Conservation Flans	All hay	Efficiency	3%	5%	8%
	Pasture	Efficiency	5%	10%	14%
Cover Crops (see Appendix 1)	Efficiency	Varies	Varies	Varies
Commodity Cover Crops (see	e Appendix 2)	Efficiency	Varies	Varies	Varies
Stream Access Control with F	Fencing (see Grass Buffers)	Efficiency, Landuse Change	13-46%	30-45%	40-60%
Alternative Watering Facility		Efficiency	5%	8%	10%
Prescribed Grazing & PIRG(\	varies by region; see Appendix 2)	Efficiency	9-11%	24%	30%
Horse Pasture Management		Efficiency	N/A	20%	40%
Animal Waste Management L	_ivestock	Application Reduction	75%	75%	N/A
Animal Waste Management F	Poultry	Application Reduction	75%	75%	N/A
Barnyard Runoff Control		Efficiency	20%	20%	40%
Loafing Lot Management		Efficiency	20%	20%	40%
Mortality Composters		Efficiency	40%	10%	N/A
Water Control Structures		Efficiency	33%	N/A	N/A
Poultry Phytase		Application Reduction	N/A	N/A	N/A
Swine Phytase		Application Reduction	N/A	N/A	N/A

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Dairy Precision Feeding and Forage Management	Application Reduction	N/A	N/A	N/A
Poultry Litter Transport	Application Reduction	N/A	N/A	N/A
Ammonia Emissions Reduction (alum, biofilters, lagoon covers)	Application Reduction	15-60%	N/A	N/A
Poultry Litter Injection (interim)	Efficiency	25%	0%	0%
Liquid Manure Injection (interim)	Efficiency	25%	0%	0%
Phosphorus Sorbing Materials in Ditches (interim)	Efficiency	0%	40%	0%
Crop Irrigation management (interim)	Efficiency	4%	0%	0%
Capture Reuse Nurseries (interim)	Efficiency	75%	75%	0%
		TN	TP	SED
Resource BMPs	How Credited	Reduction Efficiency	Reduction Efficiency	Reduction Efficiency
Forest Harvesting Practices	Efficiency	50%	60%	60%
Dirt & Gravel Road Erosion & Sediment Control – Driving Surface Aggregate + Raising the Roadbed	Mass reduction/length	0	0	2.96lb/ft
Dirt & Gravel Road Erosion & Sediment Control – with outlets	Mass reduction/length	0	0	3.6lb/ft
Dirt & Gravel Road Erosion & Sediment Control – outlets only	Mass reduction/length	0	0	1.76lb/ft
,		TN	TP	SED
Urban BMPs	How Credited	Reduction Efficiency	Reduction Efficiency	Reduction Efficiency
Urban BMPs Forest Conservation		Reduction	Reduction	Reduction
	Landuse Change Landuse Change	Reduction Efficiency	Reduction Efficiency	Reduction Efficiency
Forest Conservation	Landuse Change	Reduction Efficiency N/A	Reduction Efficiency N/A	Reduction Efficiency N/A
Forest Conservation Urban Growth Reduction	Landuse Change Landuse Change	Reduction Efficiency N/A N/A	Reduction Efficiency N/A N/A	Reduction Efficiency N/A N/A
Forest Conservation Urban Growth Reduction Impervious Urban Surface Reduction	Landuse Change Landuse Change Landuse Change	Reduction Efficiency N/A N/A N/A	Reduction Efficiency N/A N/A N/A	Reduction Efficiency N/A N/A N/A
Forest Conservation Urban Growth Reduction Impervious Urban Surface Reduction Forest Buffers	Landuse Change Landuse Change Landuse Change Efficiency, Landuse Change	Reduction Efficiency N/A N/A N/A 25%	Reduction Efficiency N/A N/A N/A 50%	Reduction Efficiency N/A N/A N/A 50%
Forest Conservation Urban Growth Reduction Impervious Urban Surface Reduction Forest Buffers Tree Planting	Landuse Change Landuse Change Landuse Change Efficiency, Landuse Change Landuse Change	Reduction Efficiency N/A N/A N/A 25% N/A	Reduction Efficiency N/A N/A N/A 50% N/A	Reduction Efficiency N/A N/A N/A 50% N/A
Forest Conservation Urban Growth Reduction Impervious Urban Surface Reduction Forest Buffers Tree Planting Abandoned Mine Reclamation	Landuse Change Landuse Change Landuse Change Efficiency, Landuse Change Landuse Change Landuse Change	Reduction Efficiency N/A N/A N/A 25% N/A N/A	Reduction Efficiency N/A N/A N/A 50% N/A N/A	Reduction Efficiency N/A N/A N/A 50% N/A N/A
Forest Conservation Urban Growth Reduction Impervious Urban Surface Reduction Forest Buffers Tree Planting Abandoned Mine Reclamation Wet Ponds and Wetlands	Landuse Change Landuse Change Landuse Change Efficiency, Landuse Change Landuse Change Landuse Change Efficiency	Reduction Efficiency N/A N/A N/A 25% N/A N/A 20%	Reduction Efficiency N/A N/A N/A 50% N/A N/A N/A 45%	Reduction Efficiency N/A N/A N/A 50% N/A N/A N/A 60%
Forest Conservation Urban Growth Reduction Impervious Urban Surface Reduction Forest Buffers Tree Planting Abandoned Mine Reclamation Wet Ponds and Wetlands Dry Detention Ponds and Hydrodynamic Structures	Landuse Change Landuse Change Landuse Change Efficiency, Landuse Change Landuse Change Landuse Change Efficiency Efficiency	Reduction Efficiency N/A N/A N/A 25% N/A N/A 20% 5%	Reduction Efficiency N/A N/A N/A 50% N/A N/A 45% 10%	Reduction Efficiency N/A N/A N/A 50% N/A N/A 60% 10%
Forest Conservation Urban Growth Reduction Impervious Urban Surface Reduction Forest Buffers Tree Planting Abandoned Mine Reclamation Wet Ponds and Wetlands Dry Detention Ponds and Hydrodynamic Structures Dry Extended Detention Ponds	Landuse Change Landuse Change Landuse Change Efficiency, Landuse Change Landuse Change Landuse Change Efficiency Efficiency Efficiency	Reduction Efficiency N/A N/A N/A 25% N/A N/A 20% 5% 20%	Reduction Efficiency N/A N/A N/A 50% N/A N/A 45% 10% 20%	Reduction Efficiency N/A N/A N/A 50% N/A N/A 60% 10% 60%
Forest Conservation Urban Growth Reduction Impervious Urban Surface Reduction Forest Buffers Tree Planting Abandoned Mine Reclamation Wet Ponds and Wetlands Dry Detention Ponds and Hydrodynamic Structures Dry Extended Detention Ponds Infiltration Practices w/o Sand, Veg.	Landuse Change Landuse Change Landuse Change Efficiency, Landuse Change Landuse Change Landuse Change Efficiency Efficiency Efficiency Efficiency	Reduction Efficiency N/A N/A N/A 25% N/A N/A 20% 5% 20% 80%	Reduction Efficiency N/A N/A N/A 50% N/A N/A 45% 10% 20% 85%	Reduction Efficiency N/A N/A N/A 50% N/A N/A 60% 10% 60% 95%
Forest Conservation Urban Growth Reduction Impervious Urban Surface Reduction Forest Buffers Tree Planting Abandoned Mine Reclamation Wet Ponds and Wetlands Dry Detention Ponds and Hydrodynamic Structures Dry Extended Detention Ponds Infiltration Practices w/o Sand, Veg. Infiltration Practices w/ Sand, Veg.	Landuse Change Landuse Change Landuse Change Efficiency, Landuse Change Landuse Change Landuse Change Efficiency Efficiency Efficiency Efficiency Efficiency	Reduction Efficiency N/A N/A N/A 25% N/A N/A 20% 5% 20% 80% 85%	Reduction Efficiency N/A N/A N/A 50% N/A N/A 45% 10% 20% 85%	Reduction Efficiency N/A N/A N/A 50% N/A N/A 60% 10% 60% 95%
Forest Conservation Urban Growth Reduction Impervious Urban Surface Reduction Forest Buffers Tree Planting Abandoned Mine Reclamation Wet Ponds and Wetlands Dry Detention Ponds and Hydrodynamic Structures Dry Extended Detention Ponds Infiltration Practices w/o Sand, Veg. Infiltration Practices Filtering Practices	Landuse Change Landuse Change Landuse Change Efficiency, Landuse Change Landuse Change Landuse Change Efficiency Efficiency Efficiency Efficiency Efficiency Efficiency Efficiency	Reduction Efficiency N/A N/A N/A 25% N/A N/A 20% 5% 20% 80% 85% 40%	Reduction Efficiency N/A N/A N/A 50% N/A N/A 45% 10% 20% 85% 85% 60%	Reduction Efficiency N/A N/A N/A 50% N/A N/A 60% 10% 60% 95% 95% 80%
Forest Conservation Urban Growth Reduction Impervious Urban Surface Reduction Forest Buffers Tree Planting Abandoned Mine Reclamation Wet Ponds and Wetlands Dry Detention Ponds and Hydrodynamic Structures Dry Extended Detention Ponds Infiltration Practices w/o Sand, Veg. Infiltration Practices w/ Sand, Veg. Filtering Practices Erosion and Sediment Control	Landuse Change Landuse Change Landuse Change Efficiency, Landuse Change Landuse Change Landuse Change Efficiency Efficiency Efficiency Efficiency Efficiency Efficiency Efficiency Efficiency	Reduction Efficiency N/A N/A N/A 25% N/A N/A 20% 5% 20% 80% 85% 40% 25%	Reduction Efficiency N/A N/A N/A 50% N/A N/A 45% 10% 20% 85% 85% 60% 40%	Reduction Efficiency N/A N/A N/A 50% N/A N/A 60% 10% 60% 95% 95% 80% 40%

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Septic Connections		Systems Change	N/A	N/A	N/A
Septic Denitrification		Efficiency	50%	N/A	N/A
Septic Pumping		Efficiency	5%	N/A	N/A
	C/D soils, underdrain	Efficiency	25%	45%	55%
Bioretention	A/B soils, underdrain	Efficiency	70%	75%	80%
	A/B soils, no underdrain	Efficiency	80%	85%	90%
Vegetated Open Channels	C/D soils, no underdrain	Efficiency	10%	10%	50%
Vegetated Open Channels	A/B soils, no underdrain	Efficiency	45%	45%	70%
Bioswale		Efficiency	70%	75%	80%
D	C/D soils, underdrain	Efficiency	10%	20%	55%
Permeable Pavement w/o	A/B soils, underdrain	Efficiency	45%	50%	70%
Sand, Veg.	A/B soils, no underdrain	Efficiency	75%	80%	85%
	C/D soils, underdrain	Efficiency	20%	20%	55%
Permeable Pavement w/	A/B soils, underdrain	Efficiency	50%	50%	70%
Sand, Veg.	A/B soils, no underdrain	Efficiency	80%	80%	85%

Appendix 2		TN	TP	SED
	Hydrogeomorphic Region(s)	Reduction	Reduction	Reduction
BMPs		Efficiency	Efficiency	Efficiency
Forest Buffers	Appalachian Plateau Siliciclastic Non-Tidal; Appalachian Plateau Carbonate Non-Tidal	54%	42%	56%
	Blue Ridge Non-Tidal; Mesozoic Lowlands Non-Tidal; Valley and Ridge Carbonate Non-Tidal	34%	30%	40%
	Coastal Plain Dissected Uplands Non-Tidal	65%	42%	56%
	Coastal Plain Dissected Uplands Tidal; Coastal Plain Lowlands Tidal; Coastal Plain Uplands Tidal; Piedmont Crystalline Tidal	19%	45%	60%
	Coastal Plain Lowlands Non-Tidal	56%	39%	52%
	Piedmont Crystalline Non-Tidal	56%	42%	56%
	Coastal Plain Uplands Non-Tidal	31%	45%	60%
	Piedmont Carbonate Non-Tidal	46%	36%	48%
	Valley and Ridge Siliciclastic Non-Tidal	46%	39%	52%
Grass Buffers	Appalachian Plateau Siliciclastic Non-Tidal; Appalachian Plateau Carbonate Non-Tidal	38%	42%	56%
	Blue Ridge Non-Tidal; Mesozoic Lowlands Non-Tidal; Valley and Ridge Carbonate Non-Tidal	24%	30%	40%

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	Coastal Plain Dissected Uplands Non-Tidal	46%	42%	56%
	Coastal Plain Dissected Uplands Tidal; Coastal Plain Lowlands Tidal;	420/	450/	600/
	Coastal Plain Uplands Tidal; Piedmont Crystalline Tidal	13%	45%	60%
	Coastal Plain Lowlands Non-Tidal	39%	39%	52%
	Piedmont Crystalline Non-Tidal	39%	42%	56%
	Coastal Plain Uplands Non-Tidal	21%	45%	60%
	Piedmont Carbonate Non-Tidal	32%	36%	48%
	Valley and Ridge Siliciclastic Non-Tidal	32%	39%	52%
	Coastal Plain Dissected Uplands Non-Tidal; Appalachian Plateau Carbonate			
	Non-Tidal; Coastal Plain Dissected Uplands Tidal; Coastal Plain Lowlands			
	Tidal; Coastal Plain Uplands Tidal; Coastal Plain Lowlands Non-Tidal;	9%	24%	30%
Prescribed	Coastal Plain Uplands Non-Tidal; Valley and Ridge Carbonate Non-Tidal;			
Grazing & PIRG	Piedmont Carbonate Non-Tidal			
3	Appalachian Plateau Siliciclastic Non-Tidal; Blue Ridge Non-Tidal; Mesozoic			
	Lowlands Non-Tidal; Piedmont Crystalline Tidal; Piedmont Crystalline Non-	11%	24%	30%
	Tidal; Valley and Ridge Siliciclastic Non-Tidal			
Wetland	Appalachian Plateau Siliciclastic Non-Tidal ; Appalachian Plateau Carbonate	70/	4.00/	40/
Restoration	Non-Tidal	7%	12%	4%
(Ag & Urban)	Coastal Plain Dissected Uplands Non-Tidal; Coastal Plain Dissected			
,	Uplands Tidal; Coastal Plain Lowlands Tidal; Coastal Plain Uplands Tidal;	25%	50%	15%
	Coastal Plain Lowlands Non-Tidal; Coastal Plain Uplands Non-Tidal			
	Blue Ridge Non-Tidal; Mesozoic Lowlands Non-Tidal; Valley and Ridge			
	Carbonate Non-Tidal; Piedmont Crystalline Tidal; Piedmont Crystalline Non-	4.40/	000/	00/
	Tidal; Piedmont Carbonate Non-Tidal; Valley and Ridge Siliciclastic Non-	14%	26%	8%
	Tidal			
Continuous No-	Coastal Plain Dissected Uplands Non-Tidal; Coastal Plain Dissected			
till	Uplands Tidal; Coastal Plain Lowlands Tidal; Coastal Plain Uplands Tidal;	10%	20%	70%
	Coastal Plain Lowlands Non-Tidal; Coastal Plain Uplands Non-Tidal	10 /6	20 /6	7076
	·			
	Appalachian Plateau Siliciclastic Non-Tidal; Appalachian Plateau Carbonate			
	Non-Tidal; Blue Ridge Non-Tidal; Mesozoic Lowlands Non-Tidal; Valley and			
	Ridge Carbonate Non-Tidal; Piedmont Crystalline Tidal; Piedmont	15%	40%	70%
	Crystalline Non-Tidal; Piedmont Carbonate Non-Tidal; Valley and Ridge			
	Siliciclastic Non-Tidal			
Cover Crop		<i>1</i> E 0 /	150/	200/
Early Drilled Rye	Coastal Plain/Piedmont Crystalline/Karst Settings*	45%	15%	20%
(Low-till gets only		34%	15%	20%
TN efficiency)	Mesozoic Lowlands/Valley and Ridge Siliciclastic**	O-F /U	1070	2070

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Cover Crop Early Other Rye	Coastal Plain/Piedmont Crystalline/Karst Settings*	38%	15%	20%
(Low-till gets only TN efficiency)	Mesozoic Lowlands/Valley and Ridge Siliciclastic**	29%	15%	20%
Cover Crop Early Aerial Soy	Coastal Plain/Piedmont Crystalline/Karst Settings*	31%	15%	20%
Rye (Low-till gets only TN efficiency)	Mesozoic Lowlands/Valley and Ridge Siliciclastic**	24%	15%	20%
Cover Crop Early Aerial Corn	Coastal Plain/Piedmont Crystalline/Karst Settings*	18%	15%	20%
Rye (Low-till gets only TN efficiency)	Mesozoic Lowlands/Valley and Ridge Siliciclastic**	14%	15%	20%
Cover Crop Standard Drilled	Coastal Plain/Piedmont Crystalline/Karst Settings*	41%	7%	10%
Rye (Low-till gets only TN efficiency)	Mesozoic Lowlands/Valley and Ridge Siliciclastic**	31%	7%	10%
Cover Crop Standard Other	Coastal Plain/Piedmont Crystalline/Karst Settings*	35%	7%	10%
Rye (Low-till gets only TN efficiency)	Mesozoic Lowlands/Valley and Ridge Siliciclastic**	27%	7%	10%
Cover Crop Late Drilled Rye (Low-	Coastal Plain/Piedmont Crystalline/Karst Settings*	19%	N/A	N/A
till gets only TN efficiency)	Mesozoic Lowlands/Valley and Ridge Siliciclastic**	15%	N/A	N/A
Cover Crop Late Other Rye (Low-	Coastal Plain/Piedmont Crystalline/Karst Settings*	16%	N/A	N/A
till gets only TN efficiency)	Mesozoic Lowlands/Valley and Ridge Siliciclastic**	12%	N/A	N/A
Cover Crop Early Drilled Wheat (Low-till	Coastal Plain/Piedmont Crystalline/Karst Settings*	31%	15%	20%
gets only TN efficiency)	Mesozoic Lowlands/Valley and Ridge Siliciclastic**	24%	15%	20%
Cover Crop Early Other	Coastal Plain/Piedmont Crystalline/Karst Settings*	27%	15%	20%
Wheat (Low-till gets only TN efficiency)	Mesozoic Lowlands/Valley and Ridge Siliciclastic**	20%	15%	20%

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Cover Crop Early Aerial Soy Wheat (Low-till	Coastal Plain/Piedmont Crystalline/Karst Settings*	22%	15%	20%
gets only TN efficiency)	Mesozoic Lowlands/Valley and Ridge Siliciclastic**	17%	15%	20%
Cover Crop Early Aerial Corn	Coastal Plain/Piedmont Crystalline/Karst Settings*	12%	15%	20%
Wheat (Low-till gets only TN efficiency)	Mesozoic Lowlands/Valley and Ridge Siliciclastic**	10%	15%	20%
Cover Crop Standard Drilled	Coastal Plain/Piedmont Crystalline/Karst Settings*	29%	7%	10%
Wheat (Low-till gets only TN efficiency)	Mesozoic Lowlands/Valley and Ridge Siliciclastic**	22%	7%	10%
Cover Crop Standard Other	Coastal Plain/Piedmont Crystalline/Karst Settings*	24%	7%	10%
Wheat (Low-till gets only TN efficiency)	Mesozoic Lowlands/Valley and Ridge Siliciclastic**	19%	7%	10%
Cover Crop Late Drilled Wheat	Coastal Plain/Piedmont Crystalline/Karst Settings*	13%	N/A	N/A
(Low-till gets only TN efficiency)	Mesozoic Lowlands/Valley and Ridge Siliciclastic**	10%	N/A	N/A
Cover Crop Late Other Wheat	Coastal Plain/Piedmont Crystalline/Karst Settings*	11%	N/A	N/A
(Low-till gets only TN efficiency)	Mesozoic Lowlands/Valley and Ridge Siliciclastic**	9%	N/A	N/A
Cover Crop Early Drilled	Coastal Plain/Piedmont Crystalline/Karst Settings*	38%	20%	20%
Barley (Low-till gets only TN efficiency)	Mesozoic Lowlands/Valley and Ridge Siliciclastic**	29%	20%	20%
Cover Crop Early Other	Coastal Plain/Piedmont Crystalline/Karst Settings*	32%	15%	20%
Barley (Low-till gets only TN efficiency)	Mesozoic Lowlands/Valley and Ridge Siliciclastic**	25%	15%	20%
Cover Crop Early Aerial Soy	Coastal Plain/Piedmont Crystalline/Karst Settings*	27%	15%	20%

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Barley (Low-till gets only TN efficiency)	Mesozoic Lowlands/Valley and Ridge Siliciclastic**	20%	15%	20%
Cover Crop Early Aerial Corn	Coastal Plain/Piedmont Crystalline/Karst Settings*	15%	15%	20%
Barley (Low-till gets only TN efficiency)	Mesozoic Lowlands/Valley and Ridge Siliciclastic**	12%	15%	20%
Cover Crop Standard Drilled	Coastal Plain/Piedmont Crystalline/Karst Settings*	29%	7%	10%
Barley (Low-till gets only TN efficiency)	Mesozoic Lowlands/Valley and Ridge Siliciclastic**	22%	7%	10%
Cover Crop Standard Other Barley (Low-till	Coastal Plain/Piedmont Crystalline/Karst Settings*	24%	7%	10%
gets only TN efficiency)	Mesozoic Lowlands/Valley and Ridge Siliciclastic**	19%	7%	10%
Commodity Cover Crop	Coastal Plain/Piedmont Crystalline/Karst Settings*	17%	(N/A)	(N/A)
Early Drill Wheat	Mesozoic Lowlands/Valley and Ridge Siliciclastic**	13%	(N/A)	(N/A)
Commodity Cover Crop	Coastal Plain/Piedmont Crystalline/Karst Settings*	15%	(N/A)	(N/A)
Early Other Wheat	Mesozoic Lowlands/Valley and Ridge Siliciclastic**	11%	(N/A)	(N/A)
Commodity Cover Crop	Coastal Plain/Piedmont Crystalline/Karst Settings*	15%	(N/A)	(N/A)
Early Aerial Soy Wheat	Mesozoic Lowlands/Valley and Ridge Siliciclastic**	12%	(N/A)	(N/A)
Commodity Cover Crop	Coastal Plain/Piedmont Crystalline/Karst Settings*	7%	(N/A)	(N/A)
Early Aerial Corn Wheat	Mesozoic Lowlands/Valley and Ridge Siliciclastic**	6%	(N/A)	(N/A)
Commodity Cover Crop	Coastal Plain/Piedmont Crystalline/Karst Settings*	15%	(N/A)	(N/A)
Standard Drill Wheat	Mesozoic Lowlands/Valley and Ridge Siliciclastic**	11%	(N/A)	(N/A)
Commodity Cover Crop	Coastal Plain/Piedmont Crystalline/Karst Settings*	12%	(N/A)	(N/A)

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Standard Other Wheat	Mesozoic Lowlands/Valley and Ridge Siliciclastic**	9%	(N/A)	(N/A)
Commodity Cover Crop Late	Coastal Plain/Piedmont Crystalline/Karst Settings*	7%	(N/A)	(N/A)
Drill Wheat	Mesozoic Lowlands/Valley and Ridge Siliciclastic**	6%	(N/A)	(N/A)
Commodity Cover Crop Late	Coastal Plain/Piedmont Crystalline/Karst Settings*	13%	(N/A)	(N/A)
Other Wheat	Mesozoic Lowlands/Valley and Ridge Siliciclastic**	11%	(N/A)	(N/A)
Commodity Cover Crop	Coastal Plain/Piedmont Crystalline/Karst Settings*	9%	(N/A)	(N/A)
Early Drill Barley	Mesozoic Lowlands/Valley and Ridge Siliciclastic**	6%	(N/A)	(N/A)
Commodity Cover Crop	Coastal Plain/Piedmont Crystalline/Karst Settings*	6%	(N/A)	(N/A)
Early Aerial Soy Barley	Mesozoic Lowlands/Valley and Ridge Siliciclastic**	5%	(N/A)	(N/A)
Commodity Cover Crop Early Aerial Corn	Coastal Plain/Piedmont Crystalline/Karst Settings*	13%	(N/A)	(N/A)
Barley	Mesozoic Lowlands/Valley and Ridge Siliciclastic**	11%	(N/A)	(N/A)
Commodity Cover Crop	Coastal Plain/Piedmont Crystalline/Karst Settings*	15%	(N/A)	(N/A)
Standard Drill Barley	Mesozoic Lowlands/Valley and Ridge Siliciclastic**	11%	(N/A)	(N/A)
Commodity Cover Crop	Coastal Plain/Piedmont Crystalline/Karst Settings*	12%	(N/A)	(N/A)
Standard Other Barley	Mesozoic Lowlands/Valley and Ridge Siliciclastic**	10%	(N/A)	(N/A)
Commodity Cover Crop	Coastal Plain/Piedmont Crystalline/Karst Settings*	18%	(N/A)	(N/A)
Standard Other Rye	Mesozoic Lowlands/Valley and Ridge Siliciclastic**	14%	(N/A)	(N/A)
Commodity Cover Crop	Coastal Plain/Piedmont Crystalline/Karst Settings*	21%	(N/A)	(N/A)
Early Other Rye	Mesozoic Lowlands/Valley and Ridge Siliciclastic**	16%	(N/A)	(N/A)

Commodity
Cover Crop
Early Other
Barley

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(N/A)

(N/A)

(N/A)

(N/A)

(N/A)

^{*} Appalachian Plateau Carbonate Non-Tidal; Coastal Plain Dissected Uplands Non-Tidal; Coastal Plain Dissected Uplands Tidal; Coastal Plain Uplands Tidal; Coastal Plain Uplands Tidal; Coastal Plain Uplands Non-Tidal; Valley and Ridge Carbonate Non-Tidal; Piedmont Crystalline Non-Tidal; Piedmont Carbonate Non-Tidal

^{**} Appalachian Plateau Siliciclastic Non-Tidal; Mesozoic Lowlands Non-Tidal; Piedmont Crystalline Tidal; Valley and Ridge Siliciclastic Non-Tidal; Blue Ridge Non-Tidal