

Jordan Lake Nutrient Sensitive Water Management Strategy

Haw River Annual Report for CY 2010

Date: August 2012

County: Guilford

Cropland Acreage and Fertilization Rate

Crops, Hay, Pasture	Baseline (ac)	N Rate (lbs/ac)	2010 (ac)	N Rate (lbs/ac)
Bahiagrass (Hay)	0	0		
Barley (Grain)	225	125		
Broccoli	0	0		
Cabbage	0	0		
Caucasion/Old World Bluestem (Hay)	0	0		
Common Bermudagrass (Hay)	0	0		
Corn (Grain) No-Till	2464	188	2340	156
Corn (Grain) Conventional	1327	188	260	156
Corn (Silage) No-Till	1115	125		
Corn (Silage) Conventional	601	125		
Cotton	0	0		
Cucumber	0	0		
Cucumber (Plasticulture)	0	0		
Dallisgrass (Hay)	0	0		
Eggplant	0	0		
Eggplant (Plasticulture)	0	0		
Fescue (Hay)	0	0		
Hybrid Bermudagrass (Hay)	0	0		
Hybrid Bermudagrass O/S with Rescuegrass (Hay)	0	0		
Irish Potatoes	0	0		
Leafy Greens	0	0		
Lettuce (Head)	0	0		
Lettuce (Leaf)	0	0		
Lima Bean	0	0		
Melons	0	0		
Mixed Cool Season Grass (Hay)	12667	80	24500	60
Oats (Grain)	407	108		
Okra	0	0		
Onion	0	0		
Orchardgrass (Hay)	0	0		
Peanuts*	0	0		
Pearl Millet (Hay)	0	0		
Peppers	0	0		
Peppers (Plasticulture)	0	0		
Pumpkins	0	0		
Rescuegrass (Hay)	0	0		
Rutabaga/Turnip	0	0		
Rye (Grain)	0	0		
Small Grain (Silage)	0	0		
Snap Bean	0	0		
Sorghum (Grain)	9	92		
Sorghum (Silage)	0	0		
Sorghum Sudan (Hay)	0	0		
Southern Peas	0	0		
Soybeans (Double Cropped - Manured)	0	0		
Soybeans (Double Cropped)	0	0		
Soybeans (Full Season - Manured)	0	0		
Soybeans (Full Season)	3791	22	9400	18
Squash (Summer)	0	0		
Squash (Winter)	0	0		
Sweat Potatoes (Jewel)	0	0		
Sweet Corn	0	0		
Sweet Potatoes	0	0		
Timothy Grass (Hay)	0	0		
Tobacco (Burley)	0	0		
Tobacco (Flue Cured)	2741	113	1920	57
Tomatoes	0	0		
Tomatoes (Plasticulture)	0	0		
Triticale (Grain)	0	0		
Tropical Corn (Silage)	0	0		
Watermelons	0	0		

Watermelons (Seeded - Plasticulture)	0	0		
Watermelons (Seedless - Plasticulture)	0	0		
Wheat (Grain)	5070	150	1400	120
Total crop acreage (acres)	30417		39820	

Reduction Progress

lbs	1,393,207	829,290
Reduction (%)		40.48%

Changes in Cropland Acreage from Baseline

	Baseline	2010
Cropland Acreage	30,417	39,820
Change		9,403
% Change		-30.91%

Best Management Practices Installed (cumulative)

	Baseline	2010	Change
Scavenger Crop (acres)			
Wheat			0
Oats			0
Rye			0
Triticale			0
Barley			0
No-till Corn Piedmont*			0
Nutrient Management (acres)			0
Buffers (acres)			
Buffer:min. 20ft	32	27	-5
Buffer:min. 30ft	14	14	0
Buffer:min. 50ft	24	22	-2
Buffer:min. 100ft	43	35	-8
Exclusion fencing (feet)			0

Table 7. Phosphorus Loss Risk

	Units	Baseline	2010	P Loss Risk Plus or Minus
Total Agricultural Land	acres			0
Total agricultural land converted to grass or trees	acres			0
Conservation Reserve Program and WRP/Restored Wetland Acres	acres			0
Conservation Tillage	acres			0
Buffers	acres affected			0
Scavenger Crop (not reportable in NLEW)	acres			0
Tobacco	acres			0

BASELINE

INPUTS

SMG	SMGAcre	Crops	CropAcre	CropNRate	% of Total
SMG4	343	Barley (Grain)	225	125	1
SMG102	512	Corn (Grain): Conventional	1,327	188	4
SMG103	468	Corn (Grain): No-Till	2,464	188	8
SMG105	193	Corn (Silage): Conventional	601	125	2
SMG107	242	Corn (Silage): No-Till	1,115	125	4
SMG109	1,423	Mixed Cool Season Grass (Hay)	12,667	80	42
SMG110	10,038	Oats (Grain)	407	108	1
SMG111	16,717	Sorghum (Grain)	9	92	0
SMG117	424	Soybeans (Full Season)	3,791	22	12
SMG202	57	Tobacco (Flue Cured)	2,741	113	9
		Wheat (Grain)	5,070	150	17
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Tot_SMGs	30,417	Tot_Crops	30,417		

CoverCrops	Acres
Wheat	150

BMP	Acres
Buffer: Minimum 20 ft	32
Buffer: Minimum 30 ft	14
Buffer: Minimum 50 ft	24
Buffer: Minimum 100 ft	43

OUTPUTS

Total N Needed	=	3,328,967 lbs
Total N (APPLIED)	=	3,167,112 lbs
Excess N	=	0 lbs
Surface N (Excess)	=	0 lbs
SubSurface N (Excess)	=	0 lbs
SubSurface After Crop	=	1,395,025 lbs
Total SubSurface	=	1,395,025 lbs
SubSurface Intercepted By BMP	=	1,818 lbs
SubSurface Loss	=	1,393,207 lbs

**** TOTAL NITROGEN LOST = 1,393,207 lbs**

*** The Total Nitrogen Lost value is for comparative purposes only. It may not represent actual loss from the Soil Management Unit.*

INPUTS

SMG	SMGAcre	Crops	CropAcre	CropNRate	% of Total
SMG4	450	Corn (Grain): Conventional	260	156	1
SMG102	671	Corn (Grain): No-Till	2,340	156	6
SMG103	613	Mixed Cool Season Grass (Hay)	24,500	60	62
SMG105	252	Soybeans (Full Season)	9,400	18	24
SMG107	317	Tobacco (Flue Cured)	1,920	57	5
SMG109	1,862	Wheat (Grain)	1,400	120	4
SMG110	13,141				
SMG111	21,884				
SMG117	555				
SMG202	75				
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Tot_SMGs	39,820	Tot_Crops	39,820		

CoverCrops	Acres
Wheat	245

BMP	Acres
Buffer: Minimum 20 ft	27
Buffer: Minimum 30 ft	14
Buffer: Minimum 50 ft	22
Buffer: Minimum 100 ft	35

OUTPUTS

Total N Needed	=	3,938,762 lbs
Total N (APPLIED)	=	2,322,240 lbs
Excess N	=	0 lbs
Surface N (Excess)	=	0 lbs
SubSurface N (Excess)	=	0 lbs
SubSurface After Crop	=	830,124 lbs
Total SubSurface	=	830,124 lbs
SubSurface Intercepted By BMP	=	834 lbs
SubSurface Loss	=	829,290 lbs

**** TOTAL NITROGEN LOST = 829,290 lbs**

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