

Jordan Lake Nutrient Sensitive Water Management Strategy

Haw River Annual Report for CY 2010

County: Caswell County

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)	2	90		
Broccoli	0	0		
Cabbage	0	0		
Caucasion/Old World Bluestem (Hay)	0	0		
Common Bermudagrass (Hay)	0	0		
Corn (Grain)	224	190	12	150
Corn (Grain) No Till	0	0	108	150
Corn (Silage)	79	165		
Corn (Silage) No Till	9	165		
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)	2536	110	3500	88
Oats (Grain)	56	100		
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)	19	85		
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)	252	0	400	0
Squash (Summer)	0	0		
Squash (Winter)	0	0		
Sweet Potatoes (Jewel)	0	0		
Sweet Corn	0	0		
Sweet Potatoes	0	0		
Timothy Grass (Hay)	0	0		
Tobacco (Burley)	0	0	13	225
Tobacco (Flue Cured)	394	90	252	70
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)	508	100	100	100
Total crop acreage (acres)	4,079		4,385	

Reduction Progress

	Baseline	2010
lbs	131,875	88,205
Reduction (%)		33.11%

Changes in Cropland Acreage from Baseline

	Baseline	2010
Cropland Acreage	4,079	4,385
Change		306
% Change		-7.50%

Best Management Practices Installed (cumulative)

	Baseline	2010	Change
Scavenger Crop (acres)			
Wheat			0
Oats			0
Rye			0
Triticale			0
Barley			0
Nutrient Management (acres)			0
Buffers (acres)			
Buffer:min. 20ft	453	452	-1
Buffer:min. 50ft	222	222	0
Buffer:min. 70ft	327	327	0
Buffer:min. 100ft	939	938	-1
Exclusion fencing (feet)			0

Primary Source of Cropland Data :

NC Ag Stats

Primary Source of N Rate Data :

District, local producers, Extension Agent

INPUTS

SMG	SMGAcres	Crops	CropAcres	CropNRate	% of Total
SMG4	5	Corn (Grain): Conventional	12	150	0
SMG101	101	Corn (Grain): No-Till	108	150	2
SMG102	3	Mixed Cool Season Grass (Hay)	3,500	88	80
SMG103	386	Soybeans (Full Season)	400	0	9
SMG105	101	Tobacco (Burley)	13	225	0
SMG106	11	Tobacco (Flue Cured)	252	70	6
SMG107	85	Wheat (Grain)	100	100	2
SMG109	413				
SMG110	571				
SMG111	1,301				
SMG113	1,115				
SMG115	33				
SMG116	169				
SMG117	91				
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Tot_SMGs	4,385	Tot_Crops	4,385		

BMP	Acres
Buffer: Minimum 20 ft	452
Buffer: Minimum 30 ft	222
Buffer: Minimum 50 ft	327
Buffer: Minimum 100 ft	938

OUTPUTS

Total N Needed	=	518,610 lbs
Total N (APPLIED)	=	356,565 lbs
Excess N	=	0 lbs
Surface N (Excess)	=	0 lbs
SubSurface N (Excess)	=	0 lbs
SubSurface After Crop	=	101,445 lbs
Total SubSurface	=	101,445 lbs
SubSurface Intercepted By BMP	=	13,240 lbs
SubSurface Loss	=	88,205 lbs
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** TOTAL NITROGEN LOST	=	88,205 lbs

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

BASELINE

INPUTS

SMG	SMGAcres	Crops	CropAcres	CropNRate	% of Total
SMG4	4	Barley (Grain)	2	90	0
SMG101	94	Corn (Grain): Conventional	224	190	5
SMG102	3	Corn (Silage): Conventional	79	165	2
SMG103	359	Corn (Silage): No-Till	9	165	0
SMG105	94	Mixed Cool Season Grass (Hay)	2,536	110	62
SMG106	10	Oats (Grain)	56	100	1
SMG107	79	Sorghum (Grain)	19	85	0
SMG109	384	Soybeans (Full Season)	252	0	6
SMG110	531	Tobacco (Flue Cured)	394	90	10
SMG111	1,211	Wheat (Grain)	508	100	12
SMG113	1,037				
SMG115	31				
SMG116	157				
SMG117	85				
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Tot_SMGs	4,079	Tot_Crops	4,079		

BMP	Acres
Buffer: Minimum 20 ft	453
Buffer: Minimum 30 ft	222
Buffer: Minimum 50 ft	327
Buffer: Minimum 100 ft	939

OUTPUTS

Total N Needed	=	477,936 lbs
Total N (APPLIED)	=	429,695 lbs
Excess N	=	0 lbs
Surface N (Excess)	=	0 lbs
SubSurface N (Excess)	=	0 lbs
SubSurface After Crop	=	153,422 lbs
Total SubSurface	=	153,422 lbs
SubSurface Intercepted By BMP	=	21,546 lbs
SubSurface Loss	=	131,875 lbs
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** TOTAL NITROGEN LOST	=	131,875 lbs

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