

Jordan Lake Nutrient Sensitive Water Management Strategy

Haw River Annual Report for CY 2010

County:

Alamance

Cropland Acreage and Fertilization Rate

Crops, Hay, Pasture	Baseline (ac)	N Rate (lbs/ac)	2010 (ac)	N Rate (lbs/ac)
Bahiagrass (Hay)				
Barley (Grain)	24	90	0	
Broccoli				
Cabbage				
Caucasion/Old World Bluestem (Hay)				
Common Bermudagrass (Hay)				
Corn (Grain) NT (baseline 65%NT , 2010 95%NT)	1807	130	2470	150
Corn (Grain) Convent.	973	130	130	150
Corn (Silage) (baseline65%NT, 2010 95% NT)	1417	150	1235	160
Corn (Grain) Convent.	763	150	65	160
Cotton				
Dallisgrass (Hay)				
Fescue (Hay)				
Hybrid Bermudagrass (Hay)				
Hybrid Bermudagrass O/S with Rescuegrass (Hay)				
Irish Potatoes				
Leafy Greens				
Melons				
Mixed Cool Season Grass (Hay)	15160	110	20500	75
Oats (Grain)	342	100		
Okra				
Onion				
Orchardgrass (Hay)				
Peanuts*				
Pearl Millet (Hay)				
Rutabaga/Turnip				
Rye (Grain)				
Small Grain (Silage)	10	100		
Snap Bean				
Sorghum (Grain)				
Sorghum (Silage)				
Sorghum Sudan (Hay)				
Southern Peas				
Soybeans (Double Cropped - Manured)				
Soybeans (Double Cropped)				
Soybeans (Full Season - Manured)				
Soybeans (Full Season)	2600	20	3100	15
Squash (Summer)				
Squash (Winter)				
Sweat Potatoes (Jewel)				
Sweet Corn				
Sweet Potatoes				
Timothy Grass (Hay)				
Tobacco (Burley)				
Tobacco (Flue Cured)	2033	100	1390	70
Tomatoes				
Tomatoes (Plasticulture)				
Triticale (Grain)				
Tropical Corn (Silage)				
Watermelons				
Watermelons (Seeded - Plasticulture)				
Watermelons (Seedless - Plasticulture)				
Wheat (Grain)	3280	90	1300	90
Total crop acreage (acres)	28,409		30,190	

Reduction Progress

	Baseline	2010
lbs	697,924	536,075
Reduction (%)		23.19%

Changes in Cropland Acreage from Baseline

	Baseline	2010
Cropland Acreage	28,409	30,190
Change		1,781
% Change		-6.27%

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	15,000	15,015	15
Buffer:min. 30ft			0
Buffer:min. 50ft	14,326	14,327	1
Buffer:min. 100ft	8,013	8,015	2
Exclusion fencing (feet)	19,255	52,447	33,192

Primary Source of Cropland Data :

Ag Stats

Primary Source of N Rate Data :

Coop Ext. Farmers

INPUTS

SMG	SMGAcres	Crops	CropAcres	CropNRate	% of Total
SMG4	31	Barley (Grain)	24	90	0
SMG101	654	Corn (Grain): Conventional	973	130	3
SMG102	22	Corn (Grain): No-Till	1,807	130	6
SMG103	2,499	Corn (Silage): Conventional	763	150	3
SMG105	657	Corn (Silage): No-Till	1,417	150	5
SMG106	71	Mixed Cool Season Grass (Hay)	15,160	110	53
SMG107	553	Oats (Grain)	342	80	1
SMG109	2,673	Sorghum (Silage)	10	100	0
SMG110	3,699	Soybeans (Full Season)	2,600	20	9
SMG111	8,424	Tobacco (Flue Cured)	2,033	100	7
SMG113	7,222	Wheat (Grain)	3,280	90	12
SMG115	215				
SMG116	1,097				
SMG117	592				
Tot_SMGs	28,409	Tot_Crops	28,409		

BMP	Acres
Buffer: Minimum 20 ft	15,000
Buffer: Minimum 50 ft	14,326
Buffer: Minimum 100 ft	8,013

OUTPUTS

Total N Needed	=	3,368,987 lbs
Total N (APPLIED)	=	2,937,020 lbs
Excess N	=	0 lbs
Surface N (Excess)	=	0 lbs
SubSurface N (Excess)	=	0 lbs
SubSurface After Crop	=	1,083,067 lbs
Total SubSurface	=	1,083,067 lbs
SubSurface Intercepted By BMP	=	385,143 lbs
SubSurface Loss	=	697,924 lbs

**** TOTAL NITROGEN LOST = 697,924 lbs**

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

INPUTS

SMG	SMGAcres	Crops	CropAcres	CropNRate	% of Total
SMG4	33	Corn (Grain): Conventional	130	150	0
SMG101	695	Corn (Grain): No-Till	2,470	150	8
SMG102	23	Corn (Silage): Conventional	65	160	0
SMG103	2,655	Corn (Silage): No-Till	1,235	160	4
SMG105	698	Mixed Cool Season Grass (Hay)	20,500	75	68
SMG106	76	Soybeans (Full Season)	3,100	15	10
SMG107	587	Tobacco (Flue Cured)	1,390	70	5
SMG109	2,841	Wheat (Grain)	1,300	90	4
SMG110	3,930				
SMG111	8,952				
SMG113	7,676				
SMG115	229				
SMG116	1,165				
SMG117	630				
Tot_SMGs	30,190	Tot_Crops	30,190		

BMP	Acres
Buffer: Minimum 20 ft	15,015
Buffer: Minimum 50 ft	14,327
Buffer: Minimum 100 ft	8,015

OUTPUTS

Total N Needed	=	3,602,209 lbs
Total N (APPLIED)	=	2,396,300 lbs
Excess N	=	0 lbs
Surface N (Excess)	=	0 lbs
SubSurface N (Excess)	=	0 lbs
SubSurface After Crop	=	805,835 lbs
Total SubSurface	=	805,835 lbs
SubSurface Intercepted By BMP	=	269,760 lbs
SubSurface Loss	=	536,075 lbs

**** TOTAL NITROGEN LOST = 536,075 lbs**

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