

State of North Carolina
Department of Environment and Natural Resources
Division of Water Quality
Animal Feeding Operations Permit Application Form
(THIS FORM MAY BE PHOTOCOPIED FOR USE AS AN ORIGINAL)
NPDES General Permit - Existing Animal Waste Operations

1. GENERAL INFORMATION:

- 1.1 Facility name: Triple K 2
- 1.2 Print Land Owner's name: Kevin mills, Keith mills
- 1.3 Mailing address: 1365 Spann Rd
 City, State: Trenton NC Zip: 28585
 Telephone number (include area code): (252) 448-4461
- 1.4 Physical address: 1321 Hwy 58 N
 City, State: Trenton NC Zip: 28585
 Telephone number (include area code): (252) 521-1190
- 1.5 County where facility is located: Jones
- 1.6 Owner's email address: Millsandsons@always-online.com
- 1.7 Facility location (directions from nearest major highway, using SR numbers for state roads): Off of Hwy 58
- 1.8 Farm Manager's name (if different from Land Owner): ES
- 1.9 Lessee's / Integrator's name (if applicable; circle which type is listed): _____
- 1.10 Facility's original start-up date: 1994 Date(s) of facility expansion(s) (if applicable): _____

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2. OPERATION INFORMATION:

2.1 Facility number: AW5520073

2.2 Operation Description:

Please enter the Design Capacity of the system. The "No. of Animals" should be the maximum number for which the waste management structures were designed.

<u>Type of Swine</u>	<u>No. of Animals</u>	<u>Type of Poultry</u>	<u>No. of Animals</u>	<u>Type of Cattle</u>	<u>No. of Animals</u>
<input type="checkbox"/> Wean to Feeder	_____	<input type="checkbox"/> Layer	_____	<input type="checkbox"/> Beef Brood Cow	_____
<input checked="" type="checkbox"/> Feeder to Finish	<u>3520</u> ✓	<input type="checkbox"/> Non-Layer	_____	<input type="checkbox"/> Beef Feeder	_____
<input type="checkbox"/> Farrow to Wean (# sow)	_____	<input type="checkbox"/> Turkey	_____	<input type="checkbox"/> Beef Stocker Calf	_____
<input type="checkbox"/> Farrow to Feeder (# sow)	_____	<input type="checkbox"/> Turkey Poults	_____	<input type="checkbox"/> Dairy Calf	_____
<input type="checkbox"/> Farrow to Finish (# sow)	_____			<input type="checkbox"/> Dairy Heifer	_____
<input type="checkbox"/> Wean to Finish (# sow)	_____			<input type="checkbox"/> Dry Cow	_____
<input type="checkbox"/> Gilts	_____			<input type="checkbox"/> Milk Cow	_____
<input type="checkbox"/> Boar/Stud	_____				

Other Type of Livestock on the farm: _____

No. of Animals: _____

- 2.3 Acreage cleared and available for application (excluding all required buffers and areas not covered by the application system): 110 Required Acreage (as listed in the CAWMP): 83.44
- 2.4 Number of lagoons: 1 Total Capacity (cubic feet): 722160 Required Capacity (cubic feet): 710404
 Number of Storage Ponds: 0 Total Capacity (cubic feet): _____ Required Capacity (cubic feet): _____
- 2.5 Are subsurface drains present within 100' of any of the application fields? YES or NO (circle one)
- 2.6 Are subsurface drains present in the vicinity or under the waste management system? YES or NO (circle one)
- 2.7 Does this facility meet all applicable siting requirements? YES or NO (circle one)

3. REQUIRED ITEMS CHECKLIST:

Please indicate that you have included the following required items by signing your initials in the space provided next to each item.

- | | <u>Applicants Initials</u> |
|---|----------------------------|
| 3.1 One completed and signed original and one copy of the application for NPDES General Permit - Animal Waste Operations; | <u>Kn</u> |
| 3.2 Two copies of a general location map indicating the location of the animal waste facilities and field locations where animal waste is land applied and a county road map with the location of the facility indicated; | <u>Kn</u> |
| 3.3 Two copies of the entire Certified Animal Waste Management Plan (CAWMP). If the facility does not have a CAWMP, it must be completed prior to submittal of a permit application for animal waste operations. | <u>Kn</u> |

The CAWMP **must** include the following components. *Some of these components may not have been required at the time the facility was certified but must be added to the CAWMP for NPDES permitting purposes:*

- 3.3.1 The Waste Utilization Plan (WUP) must include the amount of Plant Available Nitrogen (PAN) and Phosphorus produced and utilized by the facility
- 3.3.2 The method by which waste is applied to the disposal fields (e.g. irrigation, injection, etc.)
- 3.3.3 A map of every field used for land application, with setbacks to surface waters or any conduits to surface waters (including field ditches), with the exception of grassed waterways that are designed and maintained according to NRCS standards.
- 3.3.4 The soil series present on every land application field
- 3.3.5 The crops grown on every land application field
- 3.3.6 The Realistic Yield Expectation (RYE) for every crop shown in the WUP
- 3.3.7 The PAN and Phosphorus applied to every land application field
- 3.3.8 The waste application windows for every crop utilized in the WUP
- 3.3.9 The required NRCS Standard specifications
- 3.3.10 A site schematic
- 3.3.11 Emergency Action Plan
- 3.3.12 Insect Control Checklist with chosen best management practices noted
- 3.3.13 Odor Control Checklist with chosen best management practices noted
- 3.3.14 Mortality Control Checklist with the selected method noted
- 3.3.15 Lagoon/storage pond capacity documentation (design, calculations, etc.); please be sure to include any site evaluations, wetland determinations, or hazard classifications that may be applicable to your facility
- 3.3.16 Operation and Maintenance Plan
- 3.3.17 Phosphorus Loss Assessment Tool (PLAT) Results, including the data sheets for each field.

If your CAWMP includes any components not shown on this list, please include the additional components with your submittal. (Composting, waste transfers, etc.)

4. APPLICANT'S CERTIFICATION:

I, Kevin Mills, Keith Mills (Land Owner's name listed in question 1.2), attest that this application for Triple K Farms 2 (Facility name listed in question 1.1) has been reviewed by me and is accurate and complete to the best of my knowledge. I understand that if all required parts of this application are not completed and that if all required supporting information and attachments are not included, this application package will be returned to me as incomplete.

Signature Kevin Mills, Keith Mills Date 10-19-12

5. MANAGER'S CERTIFICATION: (complete only if different from the Land Owner)

I, _____ (Manager's name listed in question 1.6), attest that this application for _____ (Facility name listed in question 1.1) has been reviewed by me and is accurate and complete to the best of my knowledge. I understand that if all required parts of this application are not completed and that if all required supporting information and attachments are not included, this application package will be returned as incomplete.

Signature _____ Date _____

THE COMPLETED APPLICATION PACKAGE, INCLUDING ALL SUPPORTING INFORMATION AND MATERIALS, SHOULD BE SENT TO THE FOLLOWING ADDRESS:

**NORTH CAROLINA DIVISION OF WATER QUALITY
AQUIFER PROTECTION SECTION
ANIMAL FEEDING OPERATIONS UNIT
1636 MAIL SERVICE CENTER
RALEIGH, NORTH CAROLINA 27699-1636
TELEPHONE NUMBER: (919) 733-3221
FAX NUMBER: (919) 715-6048**

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North Carolina Department of Environment and Natural Resources

Division of Water Quality

Beverly Eaves Perdue
Governor

Coleen H. Sullins
Director

Dee Freeman
Secretary

October 1, 2009

Keith A Mills
Triple K Farms - 2
1365 Spann Rd
Trenton, NC 285857837

Subject: Certificate of Coverage No. AWS520073
Triple K Farms - 2
Swine Waste Collection, Treatment,
Storage and Application System
Jones County

Existing COC

Dear Keith A Mills:

In accordance with your renewal request, we are hereby forwarding to you this Certificate of Coverage (COC) issued to Keith A Mills, authorizing the operation of the subject animal waste management system in accordance with General Permit AWG100000.

This approval shall consist of the operation of this system including, but not limited to, the management and land application of animal waste as specified in the facility's Certified Animal Waste Management Plan (CAWMP) for the Triple K Farms - 2, located in Jones County, with a swine animal capacity of no greater than the following annual averages:

Wean to Finish:	Feeder to Finish: 3520	Boar/Stud:
Wean to Feeder:	Farrow to Wean:	Gilts:
Farrow to Finish:	Farrow to Feeder:	Other:

If this is a Farrow to Wean or Farrow to Feeder operation, there may be one boar for each 15 sows. Where boars are unnecessary, they may be replaced by an equivalent number of sows. Any of the sows may be replaced by gilts at a rate of 4 gilts for every 3 sows.

The COC shall be effective from the date of issuance until September 30, 2014, and shall hereby void Certificate of Coverage Number AWS520073 that was previously issued to this facility. Pursuant to this COC, you are authorized and required to operate the system in conformity with the conditions and limitations as specified in the General Permit, the facility's CAWMP, and this COC. An adequate system for collecting and maintaining the required monitoring data and operational information must be established for this facility. Any increase in waste production greater than the certified design capacity or increase in number of animals authorized by this COC (as provided above) will require a modification to the CAWMP and this COC and must be completed prior to actual increase in either wastewater flow or number of animals.

Please carefully read this COC and the enclosed State General Permit. Please pay careful attention to the record keeping and monitoring conditions in this permit. Record keeping forms are unchanged with this General Permit. Please continue to use the same record keeping forms.

If your Waste Utilization Plan (WUP) has been developed based on site-specific information, careful evaluation of future samples is necessary. Should your records show that the current WUP is inaccurate you will need to have a new WUP developed.

The issuance of this COC does not excuse the Permittee from the obligation to comply with all applicable laws, rules, standards, and ordinances (local, state, and federal), nor does issuance of a COC to operate under this permit convey any property rights in either real or personal property.

Per 15A NCAC 2T .0105(h) a compliance boundary is provided for the facility and no new water supply wells shall be constructed within the compliance boundary. Per NRCS standards a 100-foot separation shall be maintained between water supply wells and any lagoon, storage pond, or any wetted area of a spray field.

Please be advised that any violation of the terms and conditions specified in this COC, the General Permit or the CAWMP may result in the revocation of this COC, or penalties in accordance with NCGS 143-215.6A through 143-215.6C including civil penalties, criminal penalties, and injunctive relief.

If you wish to continue the activity permitted under the General Permit after the expiration date of the General Permit, then an application for renewal must be filed at least 180 days prior to expiration.

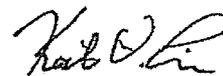
This COC is not automatically transferable. A name/ownership change application must be submitted to the Division prior to a name change or change in ownership.

If any parts, requirements, or limitations contained in this COC are unacceptable, you have the right to apply for an individual permit by contacting the Animal Feeding Operations Unit for information on this process. Unless such a request is made within 30 days, this COC shall be final and binding.

In accordance with Condition II.22 of the General Permit, waste application shall cease within four (4) hours of the time that the National Weather Service issues a Hurricane Warning, Tropical Storm Warning, or a Flood Watch associated with a tropical system for the county in which the facility is located. You may find detailed watch/warning information for your county by calling the Newport/Morehead City, NC National Weather Service office at (252) 223-5737, or by visiting their website at: www.erh.noaa.gov/er/mhx/

This facility is located in a county covered by our Washington Regional Office. The Regional Office Aquifer Protection Staff may be reached at (252) 946-6481. If you need additional information concerning this COC or the General Permit, please contact the Animal Feeding Operations Unit staff at (919) 733-3221.

Sincerely,



for Coleen H. Sullins

Enclosure (General Permit AWG100000)

cc: (Certificate of Coverage only for all ccs)
Washington Regional Office, Aquifer Protection Section
Jones County Health Department
Jones County Soil and Water Conservation District
APS Central Files (Permit No. AWS520073)
AFO Notebooks
Carolina Farms

Nutrient Management Plan For Animal Waste Utilization 04-13-2012

This plan has been prepared for:

*Triple K Farms-2
Kevin & Keith Mills
1365 Spann Rd.
Trenton, NC 28585
252-448-5066*

This plan has been developed by:

*Keith Metts
Jones SWCD
P. O. BOX 40
Trenton, NC 28585
252-448-2731 ext: 3*



Developer Signature

Type of Plan: Nutrient Management with Manure Only

Owner/Manager/Producer Agreement

I (we) understand and agree to the specifications and the operation and maintenance procedures established in this nutrient management plan which includes an animal waste utilization plan for the farm named above. I have read and understand the Required Specifications concerning animal waste management that are included with this plan.



Signature (owner)

4-16-12

Date

Signature (manager or producer)

Date

This plan meets the minimum standards and specifications of the U.S. Department of Agriculture - Natural Resources Conservation Service or the standard of practices adopted by the Soil and Water Conservation Commission.

Plan Approved By:



Technical Specialist Signature

4-13-12

Date

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Nutrients applied in accordance with this plan will be supplied from the following source(s):

Commercial Fertilizer is not included in this plan.

S7	Swine Feeder-Finish Lagoon Liquid waste generated 3,263,040 gals/year by a 3,520 animal Swine Finishing Lagoon Liquid operation. This production facility has waste storage capacities of approximately 180 days.				
Estimated Pounds of Plant Available Nitrogen Generated per Year					
Broadcast	7515				
Incorporated	12907				
Injected	14214				
Irrigated	8169				
	Max. Avail. PAN (lbs) *	Actual PAN Applied (lbs)	PAN Surplus/ Deficit (lbs)	Actual Volume Applied (Gallons)	Volume Surplus/ Deficit (Gallons)
Year 1	8,169	11084	-2,915	4,427,515	-1,164,475
Year 2	8,169	16155	-7,986	6,453,042	-3,190,002
Year 3	8,169	11233	-3,064	4,487,032	-1,223,992

Note: In source ID, S means standard source, U means user defined source.

* Max. Available PAN is calculated on the basis of the actual application method(s) identified in the plan for this source.

Narrative

PULL# 8,9,&10 WILL NEED TO BE RECALULATED TO DETERMINE THE WETTABLE ACRES BECAUSE THE LENGHT OF THE PULLS HAVE CHANGED. THIS PLAN WILL NEED TO BE REVISED WHEN THIS IS COMPLETED.

If Small Grain is planted and NOT Grazed or Harvested as Hay and Burned Down, the maxium amount of Nitrogen to be applied is 30-Lbs./ac. The amount applied will then be taken off the following crop.

Because of weed problems in the sprayfields the producer wants to rotate Grain Sorghum into his rotation. Producer will need to manage his rotation so that he will have a receiving crop during the Fall and Winter months.

The following rates may be used as listed based on NCSU recommendations.

Soil Type	Crop	Lbs. of N/ac.	Application Window
La, Le, Na	Sorghum Grain	120-Lbs.	3/15 - 8/31
	Sorghum Behind Soybern	100-Lbs.	3/15 - 8/31

Narrative

* User-defined PAN Values used in this waste plan are the values used in previous waste plans for this farm.

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Soil Type	Crop	Lbs. of N/ac.	Application Window
La, Le, Na	Sorghum Grain	120-Lbs.	3/15 - 8/31
	Sorghum Behind Soybern	100-Lbs.	3/15 - 8/31

Technical Specialist : J. Rithmatt Jones SWCD Date: 11-26-12

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The table shown below provides a summary of the crops or rotations included in this plan for each field. Realistic Yield estimates are also provided for each crop, as well as the crop's P2O5 Removal Rate. The Leaching Index (LI) and the Phosphorous Loss Assessment Tool (PLAT) Rating are also provided for each field, where available.

If a field's PLAT Rating is High, any planned manure application is limited to the phosphorous removal rate of the harvested plant biomass for the crop rotation or multiple years in the crop sequence. Fields with a Very High PLAT Rating should receive no additional applications of manure. Regardless of the PLAT rating, starter fertilizers may be recommended in accordance with North Carolina State University guidelines or recommendations. The quantity of P2O5 applied to each crop is shown in the following table if the field's PLAT rating is High or Very High.

Planned Crops Summary

Tract	Field	Total Acres	Useable Acres	Plat Rating	LI	Soil Series	Crop Sequence	RYE	P2O5	
									Removal (lbs/acre)	Applied (lbs/acre)
780	1	1.91	1.91	Low	1.0	Leaf	Corn, Grain	105 bu.	46	N/A
							Wheat, Grain	50 bu.	25	N/A
							Soybeans, Manured, Double Crop	32 bu.	26	N/A
							Cotton	675 lbs.	20	N/A
780	10	3.76	3.76	Low	1.0	Nahunta	Corn, Grain	125 bu.	55	N/A
							Wheat, Grain	60 bu.	30	N/A
							Soybeans, Manured, Double Crop	38 bu.	30	N/A
							Cotton	800 lbs.	23	N/A
780	11	3.76	3.76	Medium	1.0	Leaf	Cotton	675 lbs.	20	N/A
							Corn, Grain	105 bu.	46	N/A
							Wheat, Grain	50 bu.	25	N/A
							Soybeans, Manured, Double Crop	32 bu.	26	N/A
780	12	5.30	5.30	Medium	1.0	Nahunta	Cotton	800 lbs.	23	N/A
							Corn, Grain	125 bu.	55	N/A
							Wheat, Grain	60 bu.	30	N/A
							Soybeans, Manured, Double Crop	38 bu.	30	N/A
780	13	3.63	3.63	Medium	1.0	Leaf	Cotton	675 lbs.	20	N/A
							Corn, Grain	105 bu.	46	N/A
							Wheat, Grain	50 bu.	25	N/A
							Soybeans, Manured, Double Crop	32 bu.	26	N/A
780	14	5.38	5.38	Low	1.0	Nahunta	Cotton	800 lbs.	23	N/A
							Corn, Grain	125 bu.	55	N/A
							Wheat, Grain	60 bu.	30	N/A
							Soybeans, Manured, Double Crop	38 bu.	30	N/A
780	15	3.65	3.65	Low	1.0	Leaf	Cotton	675 lbs.	20	N/A
							Corn, Grain	105 bu.	46	N/A
							Wheat, Grain	50 bu.	25	N/A

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Preview

Database Version 3.1

Date Printed 11/29/2012

NOTE: Symbol * means user entered data.

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Planned Crops Summary

Tract	Field	Total Acres	Useable Acres	Plat Rating	LI	Soil Series	Crop Sequence	RYE	P2O5	
									Removal (lbs/acre)	Applied (lbs/acre)
							Wheat, Grain	50 bu.	25	N/A
							Soybeans, Manured, Double Crop	32 bu.	26	N/A
							Cotton	675 lbs.	20	N/A
780	7	5.70	5.70	Medium	1.0	Lenoir	Corn, Grain	110 bu.	48	N/A
							Wheat, Grain	50 bu.	25	N/A
							Soybeans, Manured, Double Crop	32 bu.	26	N/A
							Cotton	700 lbs.	20	N/A
780	8	5.58	5.58	Medium	1.0	Lenoir	Corn, Grain	110 bu.	48	N/A
							Wheat, Grain	50 bu.	25	N/A
							Soybeans, Manured, Double Crop	32 bu.	26	N/A
							Cotton	700 lbs.	20	N/A
780	9	2.85	2.85	Low	1.0	Nahunta	Corn, Grain	125 bu.	55	N/A
							Wheat, Grain	60 bu.	30	N/A
							Soybeans, Manured, Double Crop	38 bu.	30	N/A
							Cotton	800 lbs.	23	N/A

PLAN TOTALS: 83.44 83.44

LI	Potential Leaching	Technical Guidance
< 2	Low potential to contribute to soluble nutrient leaching below the root zone.	None
>= 2 & <= 10	Moderate potential to contribute to soluble nutrient leaching below the root zone.	Nutrient Management (590) should be planned.
> 10	High potential to contribute to soluble nutrient leaching below the root zone.	Nutrient Management (590) should be planned. Other conservation practices that improve the soils available water holding capacity and improve nutrient use efficiency should be considered. Examples are Cover Crops (340) to scavenge nutrients, Sod-Based Rotations (328), Long-Term No-Till (778), and edge-of-field practices such as Filter Strips (393) and Riparian Forest Buffers (391).

PLAT Index	Rating	P Management Recommendation
0 - 25	Low	No adjustment needed; N based application
25 - 50	Medium	No adjustment needed; N based application
51 - 100	High	Application limited to crop P removal
> 100	Very High	Starter P application only

The Waste Utilization table shown below summarizes the waste utilization plan for this operation. This plan provides an estimate of the number of acres of cropland needed to use the nutrients being produced. The plan requires consideration of the realistic yields of the crops to be grown, their nutrient requirements, and proper timing of applications to maximize nutrient uptake.

This table provides an estimate of the amount of nitrogen required by the crop being grown and an estimate of the nitrogen amount being supplied by manure or other by-products, commercial fertilizer and residual from previous crops. An estimate of the quantity of solid and liquid waste that will be applied on each field in order to supply the indicated quantity of nitrogen from each source is also included. A balance of the total manure produced and the total manure applied is included in the table to ensure that the plan adequately provides for the utilization of the manure generated by the operation.

Waste Utilization Table

Year 1

Tract	Field	Source ID	Soil Series	Total Acres	Use. Acres	Crop	Applic. Period	Nitrogen PA Nutrient Req'd (lbs/A)	Comm. Fert. Applied (lbs/A)	Res. (lbs/A)	Applic. Method	Manure PA Nutrient Applied (lbs/A)	Liquid Manure Applied (acre)	Solid Manure Applied (acre)	Liquid Manure Applied (Field)	Solid Manure Applied (Field)
780	1	S7	Leaf	1.91	1.91	Corn, Grain	2/15-6/30	*131	0	0	Irrig.	131	52.33	0.00	99.94	0.00
780	1	S7	Leaf	1.91	1.91	Wheat, Grain	9/1-4/30	*120	0	0	Irrig.	60	23.97	0.00	45.78	0.00
780	10	S7	Nahunta	3.76	3.76	Corn, Grain	2/15-6/30	*156	0	0	Irrig.	156	62.31	0.00	234.30	0.00
780	10	S7	Nahunta	3.76	3.76	Wheat, Grain	9/1-4/30	*144	0	0	Irrig.	72	28.76	0.00	108.14	0.00
780	11	S7	Leaf	3.76	3.76	Cotton	3/15-7/31	*81	0	20	Irrig.	61	24.37	0.00	91.62	0.00
780	12	S7	Nahunta	5.30	5.30	Cotton	3/15-7/31	*96	0	20	Irrig.	76	30.36	0.00	160.90	0.00
780	13	S7	Leaf	3.63	3.63	Cotton	3/15-7/31	*81	0	20	Irrig.	61	24.37	0.00	88.45	0.00
780	14	S7	Nahunta	5.38	5.38	Cotton	3/15-7/31	*96	0	20	Irrig.	76	30.36	0.00	163.32	0.00
780	15	S7	Leaf	3.65	3.65	Cotton	3/15-7/31	*81	0	20	Irrig.	61	24.37	0.00	88.94	0.00
780	16	S7	Leaf	3.72	3.72	Cotton	3/15-7/31	*81	0	20	Irrig.	61	24.37	0.00	90.64	0.00
780	17	S7	Leaf	3.91	3.91	Cotton	3/15-7/31	*81	0	20	Irrig.	61	24.37	0.00	95.27	0.00
780	18	S7	Leaf	4.32	4.32	Cotton	3/15-7/31	*81	0	20	Irrig.	61	24.37	0.00	105.26	0.00
780	19	S7	Leaf	5.04	5.04	Cotton	3/15-7/31	*81	0	20	Irrig.	61	24.37	0.00	122.80	0.00
780	2	S7	Leaf	2.13	2.13	Corn, Grain	2/15-6/30	*131	0	0	Irrig.	131	52.33	0.00	111.46	0.00
780	2	S7	Leaf	2.13	2.13	Wheat, Grain	9/1-4/30	*120	0	0	Irrig.	60	23.97	0.00	51.05	0.00
780	20	S7	Leaf	3.11	3.11	Fescue Hay	8/1-7/31	152	0	0	Irrig.	152	60.72	0.00	188.82	0.00

Waste Utilization Table

Year 1

Tract	Field	Source ID	Soil Series	Total Acres	Use. Acres	Crop	Applic. Period	Nitrogen PA Nutrient Req'd (lbs/A)	Comm. Fert. Nutrient Applied (lbs/A)	Res. (lbs/A)	Applic. Method	Manure PA Nutrient Applied (lbs/A)	Liquid Manure Applied (acre)	Solid Manure Applied (acre)	Liquid Manure Applied (Field)	Solid Manure Applied (Field)
780	21	S7	Leaf	4.69	4.69	Fescue Hay	8/1-7/31	152	0	0	Irrig.	152	60.72	0.00	284.75	0.00
780	3	S7	Leaf	1.93	1.93	Corn, Grain	2/15-6/30	*131	0	0	Irrig.	131	52.33	0.00	100.99	0.00
780	3	S7	Leaf	1.93	1.93	Wheat, Grain	9/1-4/30	*120	0	0	Irrig.	60	23.97	0.00	46.26	0.00
780	4	S7	Leaf	2.04	2.04	Corn, Grain	2/15-6/30	*131	0	0	Irrig.	131	52.33	0.00	106.75	0.00
780	4	S7	Leaf	2.04	2.04	Wheat, Grain	9/1-4/30	*120	0	0	Irrig.	60	23.97	0.00	48.89	0.00
780	5	S7	Leaf	5.33	5.33	Corn, Grain	2/15-6/30	*131	0	0	Irrig.	131	52.33	0.00	278.90	0.00
780	5	S7	Leaf	5.33	5.33	Wheat, Grain	9/1-4/30	*120	0	0	Irrig.	60	23.97	0.00	127.74	0.00
780	6	S7	Leaf	5.70	5.70	Corn, Grain	2/15-6/30	*131	0	0	Irrig.	131	52.33	0.00	298.26	0.00
780	6	S7	Leaf	5.70	5.70	Wheat, Grain	9/1-4/30	*120	0	0	Irrig.	60	23.97	0.00	136.61	0.00
780	7	S7	Lenoir	5.70	5.70	Corn, Grain	2/15-6/30	*138	0	0	Irrig.	138	55.12	0.00	314.20	0.00
780	7	S7	Lenoir	5.70	5.70	Wheat, Grain	9/1-4/30	*120	0	0	Irrig.	60	23.97	0.00	136.61	0.00
780	8	S7	Lenoir	5.58	5.58	Corn, Grain	2/15-6/30	*138	0	0	Irrig.	138	55.12	0.00	307.59	0.00
780	8	S7	Lenoir	5.58	5.58	Wheat, Grain	9/1-4/30	*120	0	0	Irrig.	60	23.97	0.00	133.73	0.00
780	9	S7	Nahunta	2.85	2.85	Corn, Grain	2/15-6/30	*156	0	0	Irrig.	156	62.31	0.00	177.59	0.00
780	9	S7	Nahunta	2.85	2.85	Wheat, Grain	9/1-4/30	*144	0	0	Irrig.	72	28.76	0.00	81.97	0.00
													Total Applied, 1000 gallons	4,427.51		
													Total Produced, 1000 gallons	3,263.04		
													Balance, 1000 gallons	-1,164.47		
													Total Applied, tons		0.00	
													Total Produced, tons		0.00	
													Balance, tons		0.00	

Notes: 1. In the tract column, ~ symbol means leased, otherwise, owned. 2. Symbol * means user entered data.

Waste Utilization Table

Year 2

Tract	Field	Source ID	Soil Series	Total Acres	Use. Acres	Crop	Applic. Period	Nitrogen PA Nutrient Req'd (lbs/A)	Comm. Fert. Nutrient Applied (lbs/A)	Res. (lbs/A)	Applic. Method	Manure PA Nutrient Applied (lbs/A)	Liquor Manure Applied (acre)	Solid Manure Applied (acre)	Liquor Manure Applied (Field)	Solid Manure Applied (Field)
780	1	S7	Leaf	1.91	1.91	Wheat, Grain	9/1-4/30	*120	0	0	Irrig.	60	23.97	0.00	45.78	0.00
780	1	S7	Leaf	1.91	1.91	Soybeans, Manured, Double Crop	4/1-9/15	*128	0	0	Irrig.	128	51.13	0.00	97.66	0.00
780	10	S7	Nahunta	3.76	3.76	Wheat, Grain	9/1-4/30	*144	0	0	Irrig.	72	28.76	0.00	108.14	0.00
780	10	S7	Nahunta	3.76	3.76	Soybeans, Manured, Double Crop	4/1-9/15	*152	0	0	Irrig.	152	60.72	0.00	228.29	0.00
780	11	S7	Leaf	3.76	3.76	Corn, Grain	2/15-6/30	*131	0	0	Irrig.	131	52.33	0.00	196.75	0.00
780	11	S7	Leaf	3.76	3.76	Wheat, Grain	9/1-4/30	*120	0	0	Irrig.	60	23.97	0.00	90.11	0.00
780	12	S7	Nahunta	5.30	5.30	Corn, Grain	2/15-6/30	*156	0	0	Irrig.	156	62.31	0.00	330.26	0.00
780	12	S7	Nahunta	5.30	5.30	Wheat, Grain	9/1-4/30	*144	0	0	Irrig.	72	28.76	0.00	152.43	0.00
780	13	S7	Leaf	3.63	3.63	Corn, Grain	2/15-6/30	*131	0	0	Irrig.	131	52.33	0.00	189.95	0.00
780	13	S7	Leaf	3.63	3.63	Wheat, Grain	9/1-4/30	*120	0	0	Irrig.	60	23.97	0.00	87.00	0.00
780	14	S7	Nahunta	5.38	5.38	Corn, Grain	2/15-6/30	*156	0	0	Irrig.	156	62.31	0.00	335.24	0.00
780	14	S7	Nahunta	5.38	5.38	Wheat, Grain	9/1-4/30	*144	0	0	Irrig.	72	28.76	0.00	154.73	0.00
780	15	S7	Leaf	3.65	3.65	Corn, Grain	2/15-6/30	*131	0	0	Irrig.	131	52.33	0.00	190.99	0.00
780	15	S7	Leaf	3.65	3.65	Wheat, Grain	9/1-4/30	*120	0	0	Irrig.	60	23.97	0.00	87.48	0.00
780	16	S7	Leaf	3.72	3.72	Corn, Grain	2/15-6/30	*131	0	0	Irrig.	131	52.33	0.00	194.66	0.00
780	16	S7	Leaf	3.72	3.72	Wheat, Grain	9/1-4/30	*120	0	0	Irrig.	60	23.97	0.00	89.16	0.00
780	17	S7	Leaf	3.91	3.91	Corn, Grain	2/15-6/30	*131	0	0	Irrig.	131	52.33	0.00	204.60	0.00
780	17	S7	Leaf	3.91	3.91	Wheat, Grain	9/1-4/30	*120	0	0	Irrig.	60	23.97	0.00	93.71	0.00
780	18	S7	Leaf	4.32	4.32	Corn, Grain	2/15-6/30	*131	0	0	Irrig.	131	52.33	0.00	226.05	0.00
780	18	S7	Leaf	4.32	4.32	Wheat, Grain	9/1-4/30	*120	0	0	Irrig.	60	23.97	0.00	103.54	0.00
780	19	S7	Leaf	5.04	5.04	Corn, Grain	2/15-6/30	*131	0	0	Irrig.	131	52.33	0.00	263.73	0.00
780	19	S7	Leaf	5.04	5.04	Wheat, Grain	9/1-4/30	*120	0	0	Irrig.	60	23.97	0.00	120.79	0.00

Waste Utilization Table

Year 2

Tract	Field	Source ID	Soil Series	Total Acres	Use. Acres	Crop	Applic. Period	Nitrogen PA Nutrient Req'd (lbs/A)	Comm. Fert. Nutrient Applied (lbs/A)	Res. (lbs/A)	Irrig. Method	Manure PA Nutrient Applied (lbs/A)	Liquid Manure Applied (acre)	Solid Manure Applied (acre)	Liquid Manure Applied (Field)	Solid Manure Applied (Field)
780	2	S7	Leaf	2.13	2.13	Wheat, Grain	9/1-4/30	*120	0	0	Irrig.	60	23.97	0.00	51.05	0.00
780	2	S7	Leaf	2.13	2.13	Soybeans, Manured, Double Crop	4/1-9/15	*128	0	0	Irrig.	128	51.13	0.00	108.90	0.00
780	20	S7	Leaf	3.11	3.11	Fescue Hay	8/1-7/31	152	0	0	Irrig.	152	60.72	0.00	188.82	0.00
780	21	S7	Leaf	4.69	4.69	Fescue Hay	8/1-7/31	152	0	0	Irrig.	152	60.72	0.00	284.75	0.00
780	3	S7	Leaf	1.93	1.93	Wheat, Grain	9/1-4/30	*120	0	0	Irrig.	60	23.97	0.00	46.26	0.00
780	3	S7	Leaf	1.93	1.93	Soybeans, Manured, Double Crop	4/1-9/15	*128	0	0	Irrig.	128	51.13	0.00	98.68	0.00
780	4	S7	Leaf	2.04	2.04	Wheat, Grain	9/1-4/30	*120	0	0	Irrig.	60	23.97	0.00	48.89	0.00
780	4	S7	Leaf	2.04	2.04	Soybeans, Manured, Double Crop	4/1-9/15	*128	0	0	Irrig.	128	51.13	0.00	104.30	0.00
780	5	S7	Leaf	5.33	5.33	Wheat, Grain	9/1-4/30	*120	0	0	Irrig.	60	23.97	0.00	127.74	0.00
780	5	S7	Leaf	5.33	5.33	Soybeans, Manured, Double Crop	4/1-9/15	*128	0	0	Irrig.	128	51.13	0.00	272.52	0.00
780	6	S7	Leaf	5.70	5.70	Wheat, Grain	9/1-4/30	*120	0	0	Irrig.	60	23.97	0.00	136.61	0.00
780	6	S7	Leaf	5.70	5.70	Soybeans, Manured, Double Crop	4/1-9/15	*128	0	0	Irrig.	128	51.13	0.00	291.43	0.00
780	7	S7	Lenoir	5.70	5.70	Wheat, Grain	9/1-4/30	*120	0	0	Irrig.	60	23.97	0.00	136.61	0.00
780	7	S7	Lenoir	5.70	5.70	Soybeans, Manured, Double Crop	4/1-9/15	*128	0	0	Irrig.	128	51.13	0.00	291.43	0.00
780	8	S7	Lenoir	5.58	5.58	Wheat, Grain	9/1-4/30	*120	0	0	Irrig.	60	23.97	0.00	133.73	0.00
780	8	S7	Lenoir	5.58	5.58	Soybeans, Manured, Double Crop	4/1-9/15	*128	0	0	Irrig.	128	51.13	0.00	285.30	0.00
780	9	S7	Nahunta	2.85	2.85	Wheat, Grain	9/1-4/30	*144	0	0	Irrig.	72	28.76	0.00	81.97	0.00
780	9	S7	Nahunta	2.85	2.85	Soybeans, Manured, Double Crop	4/1-9/15	*152	0	0	Irrig.	152	60.72	0.00	173.04	0.00

Waste Utilization Table

Year 2

Tract	Field	Source ID	Soil Series	Total Acres	Use Acres	Crop	Applic. Period	Nitrogen PA Nutrient Req'd (lbs/A)	Comm. Fert. Nutrient Applied (lbs/A)	Res. (lbs/A)	Applic. Method	Manure PA Nutrient Applied (lbs/A)	Liquid Manure Applied (acre)	Solid Manure Applied (acre)	Liquid Manure Applied (Field)	Solid Manure Applied (Field)
								N	N	N		N	1000 gal/A	Tons	1000 gals	tons
Total Applied, 1000 gallons																
Total Produced, 1000 gallons																
Balance, 1000 gallons																
Total Applied, tons																
Total Produced, tons																
Balance, tons																
Total Applied, 1000 gallons																
Total Produced, 1000 gallons																
Balance, 1000 gallons																
Total Applied, tons																
Total Produced, tons																
Balance, tons																

Notes: 1. In the tract column, ~ symbol means leased, otherwise, owned. 2. Symbol * means user entered data.

Year 3

Waste Utilization Table

Tract	Field	Source ID	Soil Series	Total Acres	Use. Acres	Crop	Applic. Period	Nitrogen PA Nutrient Req'd (lbs/A)	Comm. Fert. Nutrient Applied (lbs/A)	Res. (lbs/A)	Applic. Method	Manure PA Nutrient Applied (lbs/A)	Liquid Manure Applied (acre)	Solid Manure Applied (acre)	Liquid Manure Applied (Field)	Solid Manure Applied (Field)
780	1	S7	Leaf	1.91	1.91	Cotton	3/15-7/31	*81	0	20	Irrig.	61	24.37	0.00	46.54	0.00
780	10	S7	Nahunta	3.76	3.76	Cotton	3/15-7/31	*96	0	20	Irrig.	76	30.36	0.00	114.14	0.00
780	11	S7	Leaf	3.76	3.76	Wheat, Grain	9/1-4/30	*120	0	0	Irrig.	60	23.97	0.00	90.11	0.00
780	11	S7	Leaf	3.76	3.76	Soybeans, Manured, Double Crop	4/1-9/15	*128	0	0	Irrig.	128	51.13	0.00	192.24	0.00
780	12	S7	Nahunta	5.30	5.30	Wheat, Grain	9/1-4/30	*144	0	0	Irrig.	72	28.76	0.00	152.43	0.00
780	12	S7	Nahunta	5.30	5.30	Soybeans, Manured, Double Crop	4/1-9/15	*152	0	0	Irrig.	152	60.72	0.00	321.79	0.00
780	13	S7	Leaf	3.63	3.63	Wheat, Grain	9/1-4/30	*120	0	0	Irrig.	60	23.97	0.00	87.00	0.00
780	13	S7	Leaf	3.63	3.63	Soybeans, Manured, Double Crop	4/1-9/15	*128	0	0	Irrig.	128	51.13	0.00	185.60	0.00
780	14	S7	Nahunta	5.38	5.38	Wheat, Grain	9/1-4/30	*144	0	0	Irrig.	72	28.76	0.00	154.73	0.00
780	14	S7	Nahunta	5.38	5.38	Soybeans, Manured, Double Crop	4/1-9/15	*152	0	0	Irrig.	152	60.72	0.00	326.65	0.00
780	15	S7	Leaf	3.65	3.65	Wheat, Grain	9/1-4/30	*120	0	0	Irrig.	60	23.97	0.00	87.48	0.00
780	15	S7	Leaf	3.65	3.65	Soybeans, Manured, Double Crop	4/1-9/15	*128	0	0	Irrig.	128	51.13	0.00	186.62	0.00
780	16	S7	Leaf	3.72	3.72	Wheat, Grain	9/1-4/30	*120	0	0	Irrig.	60	23.97	0.00	89.16	0.00
780	16	S7	Leaf	3.72	3.72	Soybeans, Manured, Double Crop	4/1-9/15	*128	0	0	Irrig.	128	51.13	0.00	190.20	0.00
780	17	S7	Leaf	3.91	3.91	Wheat, Grain	9/1-4/30	*120	0	0	Irrig.	60	23.97	0.00	93.71	0.00
780	17	S7	Leaf	3.91	3.91	Soybeans, Manured, Double Crop	4/1-9/15	*128	0	0	Irrig.	128	51.13	0.00	199.91	0.00
780	18	S7	Leaf	4.32	4.32	Wheat, Grain	9/1-4/30	*120	0	0	Irrig.	60	23.97	0.00	103.54	0.00
780	18	S7	Leaf	4.32	4.32	Soybeans, Manured, Double Crop	4/1-9/15	*128	0	0	Irrig.	128	51.13	0.00	220.88	0.00
780	19	S7	Leaf	5.04	5.04	Wheat, Grain	9/1-4/30	*120	0	0	Irrig.	60	23.97	0.00	120.79	0.00
780	19	S7	Leaf	5.04	5.04	Soybeans, Manured, Double Crop	4/1-9/15	*128	0	0	Irrig.	128	51.13	0.00	257.69	0.00
780	2	S7	Leaf	2.13	2.13	Cotton	3/15-7/31	*81	0	20	Irrig.	61	24.37	0.00	51.90	0.00
780	20	S7	Leaf	3.11	3.11	Fescue Hay	8/1-7/31	152	0	0	Irrig.	152	60.72	0.00	188.82	0.00

Waste Utilization Table Year 3

Tract	Field	Source ID	Soil Series	Total Acres	Use. Acres	Crop	Applic. Period	Nitrogen PA Nutrient Req'd (lbs/A)	Comm. Fert. Nutrient Applied (lbs/A)	Res. (lbs/A)	Applic. Method	Manure PA Nutrient Applied (lbs/A)	Liquid Manure Applied (acre)	Solid Manure Applied (acre)	Liquid Manure Applied (Field)	Solid Manure Applied (Field)
780	21	S7	Leaf	4.69	4.69	Fescue Hay	8/1-7/31	152	0	0	Irrig.	152	60.72	0.00	284.75	0.00
780	3	S7	Leaf	1.93	1.93	Cotton	3/15-7/31	*81	0	20	Irrig.	61	24.37	0.00	47.03	0.00
780	4	S7	Leaf	2.04	2.04	Cotton	3/15-7/31	*81	0	20	Irrig.	61	24.37	0.00	49.71	0.00
780	5	S7	Leaf	5.33	5.33	Cotton	3/15-7/31	*81	0	20	Irrig.	61	24.37	0.00	129.87	0.00
780	6	S7	Leaf	5.70	5.70	Cotton	3/15-7/31	*81	0	20	Irrig.	61	24.37	0.00	138.89	0.00
780	7	S7	Lenoir	5.70	5.70	Cotton	3/15-7/31	*84	0	20	Irrig.	64	25.56	0.00	145.72	0.00
780	8	S7	Lenoir	5.58	5.58	Cotton	3/15-7/31	*84	0	20	Irrig.	64	25.56	0.00	142.65	0.00
780	9	S7	Nahunta	2.85	2.85	Cotton	3/15-7/31	*96	0	20	Irrig.	76	30.36	0.00	86.52	0.00
Total Applied, 1000 gallons													4,487.03			
Total Produced, 1000 gallons													3,263.04			
Balance, 1000 gallons													-1,223.99			
Total Applied, tons														0.00		
Total Produced, tons														0.00		
Balance, tons														0.00		

Notes: 1. In the tract column, ~ symbol means leased, otherwise, owned. 2. Symbol * means user entered data.

The Irrigation Application Factors for each field in this plan are shown in the following table. Infiltration rate varies with soils. If applying waste nutrients through an irrigation system, you must apply at a rate that will not result in runoff. This table provides the maximum application rate per hour that may be applied to each field selected to receive wastewater. It also lists the maximum application amount that each field may receive in any one application event.

Irrigation Application Factors

Tract	Field	Soil Series	Application Rate (inches/hour)	Application Amount (inches)
780	1	Leaf	0.35	1.0
780	10	Nahunta	0.40	1.0
780	11	Leaf	0.35	1.0
780	12	Nahunta	0.40	1.0
780	13	Leaf	0.35	1.0
780	14	Nahunta	0.40	1.0
780	15	Leaf	0.35	1.0
780	16	Leaf	0.35	1.0
780	17	Leaf	0.35	1.0
780	18	Leaf	0.35	1.0
780	19	Leaf	0.35	1.0
780	2	Leaf	0.35	1.0
780	20	Leaf	0.35	1.0
780	21	Leaf	0.35	1.0
780	3	Leaf	0.35	1.0
780	4	Leaf	0.35	1.0
780	5	Leaf	0.35	1.0
780	6	Leaf	0.35	1.0
780	7	Lenoir	0.35	1.0
780	8	Lenoir	0.35	1.0
780	9	Nahunta	0.40	1.0

The Nutrient Management Recommendations table shown below provides an annual summary of the nutrient management plan developed for this operation. This table provides a nutrient balance for the listed fields and crops for each year of the plan. Required nutrients are based on the realistic yields of the crops to be grown, their nutrient requirements and soil test results. The quantity of nutrient supplied by each source is also identified.

The total quantity of nitrogen applied to each crop should not exceed the required amount. However, the quantity of other nutrients applied may exceed their required amounts. This most commonly occurs when manure or other byproducts are utilized to meet the nitrogen needs of the crop. Nutrient management plans may require that the application of animal waste be limited so as to prevent over application of phosphorous when excessive levels of this nutrient are detected in a field. In such situations, additional nitrogen applications from nonorganic sources may be required to supply the recommended amounts of nitrogen.

Nutrient Management Recommendations Test

YEAR		1			N (lbs/A)	P2O5 (lbs/A)	K2O (lbs/A)	Mg (lbs/A)	Mn (lbs/A)	Zn (lbs/A)	Cu (lbs/A)	Lime (tons/A)
Tract	Field	780	1	Req'd Nutrients	*120	60	20	0	0	0	0	0
Acres	App. Period	1.91	9/1-4/30	Supplied By:								
CROP		Wheat, Grain		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		Leaf		Residual	0	0	0	0	0	0	0	0
RYE	Sample Date	50 bu.	03-23-11	Manure	120	65	164	15	1	3	1	0
P Removal	Rating	25 lbs/ac.	Medium	BALANCE	0	5	144	15	1	3	1	0
Tract	Field	780	1	Req'd Nutrients	*131	60	20	0	0	0	0	0
Acres	App. Period	1.91	2/15-6/30	Supplied By:								
CROP		Corn, Grain		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		Leaf		Residual	0	0	0	0	0	0	0	0
RYE	Sample Date	105 bu.	03-23-11	Manure	131	71	179	16	1	3	1	0
P Removal	Rating	46 lbs/ac.	Medium	BALANCE	0	11	159	16	1	3	1	0
Tract	Field	780	10	Req'd Nutrients	*144	0	0	0	0	0	0	0
Acres	App. Period	3.76	9/1-4/30	Supplied By:								
CROP		Wheat, Grain		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		Nahunta		Residual	0	0	0	0	0	0	0	0
RYE	Sample Date	60 bu.	01-27-11	Manure	144	78	197	18	1	3	1	0
P Removal	Rating	30 lbs/ac.	Low	BALANCE	0	78	197	18	1	3	1	0
Tract	Field	780	10	Req'd Nutrients	*156	0	0	0	0	0	0	0
Acres	App. Period	3.76	2/15-6/30	Supplied By:								
CROP		Corn, Grain		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		Nahunta		Residual	0	0	0	0	0	0	0	0
RYE	Sample Date	125 bu.	01-27-11	Manure	156	85	214	19	1	4	1	0
P Removal	Rating	55 lbs/ac.	Low	BALANCE	0	85	214	19	1	4	1	0

Nutrient Management Recommendations Test

YEAR		1			N (lbs/A)	P2O5 (lbs/A)	K2O (lbs/A)	Mg (lbs/A)	Mn (lbs/A)	Zn (lbs/A)	Cu (lbs/A)	Lime (tons/A)
Tract	Field	780	16	Req'd Nutrients	*81	0	0	0	0	0	0	0
Acres	App. Period	3.72	3/15-7/31	Supplied By:								
CROP		Cotton		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		Leaf		Residual	20	0	0	0	0	0	0	0
RYE	Sample Date	675 lbs.	01-27-11	Manure	61	33	84	7	0	1	0	0
P Removal	Rating	20 lbs/ac.	Medium	BALANCE	0	33	84	7	0	1	0	0
Tract	Field	780	17	Req'd Nutrients	*81	0	0	0	0	0	0	0
Acres	App. Period	3.91	3/15-7/31	Supplied By:								
CROP		Cotton		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		Leaf		Residual	20	0	0	0	0	0	0	0
RYE	Sample Date	675 lbs.	01-27-11	Manure	61	33	84	7	0	1	0	0
P Removal	Rating	20 lbs/ac.	Medium	BALANCE	0	33	84	7	0	1	0	0
Tract	Field	780	18	Req'd Nutrients	*81	0	0	0	0	0	0	0
Acres	App. Period	4.32	3/15-7/31	Supplied By:								
CROP		Cotton		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		Leaf		Residual	20	0	0	0	0	0	0	0
RYE	Sample Date	675 lbs.	01-27-11	Manure	61	33	84	7	0	1	0	0
P Removal	Rating	20 lbs/ac.	Medium	BALANCE	0	33	84	7	0	1	0	0
Tract	Field	780	19	Req'd Nutrients	*81	0	0	0	0	0	0	0
Acres	App. Period	5.04	3/15-7/31	Supplied By:								
CROP		Cotton		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		Leaf		Residual	20	0	0	0	0	0	0	0
RYE	Sample Date	675 lbs.	01-27-11	Manure	61	33	84	7	0	1	0	0
P Removal	Rating	20 lbs/ac.	Medium	BALANCE	0	33	84	7	0	1	0	0
Tract	Field	780	2	Req'd Nutrients	*131	60	20	0	0	0	0	0
Acres	App. Period	2.13	2/15-6/30	Supplied By:								
CROP		Corn, Grain		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		Leaf		Residual	0	0	0	0	0	0	0	0
RYE	Sample Date	105 bu.	01-27-11	Manure	131	71	179	16	1	3	1	0
P Removal	Rating	46 lbs/ac.	Low	BALANCE	0	11	159	16	1	3	1	0

Nutrient Management Recommendations Test

YEAR		1			N (lbs/A)	P2O5 (lbs/A)	K2O (lbs/A)	Mg (lbs/A)	Mn (lbs/A)	Zn (lbs/A)	Cu (lbs/A)	Lime (tons/A)
Tract	Field	780	4	Req'd Nutrients	*131	60	0	0	0	0	4	0
Acres	App. Period	2.04	2/15-6/30	Supplied By:								
CROP		Corn, Grain		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		Leaf		Residual	0	0	0	0	0	0	0	0
RYE	Sample Date	105 bu.	03-23-11	Manure	131	71	179	16	1	3	1	0
P Removal	Rating	46 lbs/ac.	Low	BALANCE	0	11	179	16	1	3	-3	0
Tract	Field	780	5	Req'd Nutrients	*120	60	0	0	0	0	0	0
Acres	App. Period	2.04	9/1-4/30	Supplied By:								
CROP		Wheat, Grain		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		Leaf		Residual	0	0	0	0	0	0	0	0
RYE	Sample Date	50 bu.	03-23-11	Manure	120	65	164	15	1	3	1	0
P Removal	Rating	25 lbs/ac.	Low	BALANCE	0	5	164	15	1	3	1	0
Tract	Field	780	6	Req'd Nutrients	*120	0	0	0	0	0	0	0
Acres	App. Period	5.33	2/15-6/30	Supplied By:								
CROP		Corn, Grain		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		Leaf		Residual	0	0	0	0	0	0	0	0
RYE	Sample Date	105 bu.	01-27-11	Manure	131	71	179	16	1	3	1	0
P Removal	Rating	46 lbs/ac.	Low	BALANCE	0	71	179	16	1	3	1	0
Tract	Field	780	5	Req'd Nutrients	*120	0	0	0	0	0	0	0
Acres	App. Period	5.33	9/1-4/30	Supplied By:								
CROP		Wheat, Grain		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		Leaf		Residual	0	0	0	0	0	0	0	0
RYE	Sample Date	50 bu.	01-27-11	Manure	120	65	164	15	1	3	1	0
P Removal	Rating	25 lbs/ac.	Low	BALANCE	0	65	164	15	1	3	1	0

Nutrient Management Recommendations Test

YEAR		1			N (lbs/A)	P2O5 (lbs/A)	K2O (lbs/A)	Mg (lbs/A)	Mn (lbs/A)	Zn (lbs/A)	Cu (lbs/A)	Lime (tons/A)
Tract	Field	780	9	Req'd Nutrients	*156	0	0	0	0	0	0	0
Acres	App. Period	2.85	2/15-6/30	Supplied By:								
CROP		Corn, Grain		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		Nahunta		Residual	0	0	0	0	0	0	0	0
RYE	Sample Date	125 bu.	01-27-11	Manure	156	85	214	19	1	4	1	0
P Removal	Rating	55 lbs/ac.	Low	BALANCE	0	85	214	19	1	4	1	0
Tract	Field	780	9	Req'd Nutrients	*144	0	0	0	0	0	0	0
Acres	App. Period	2.85	9/1-4/30	Supplied By:								
CROP		Wheat, Grain		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		Nahunta		Residual	0	0	0	0	0	0	0	0
RYE	Sample Date	60 bu.	01-27-11	Manure	144	78	197	18	1	3	1	0
P Removal	Rating	30 lbs/ac.	Low	BALANCE	0	78	197	18	1	3	1	0

NOTE: Symbol * means user entered data.

Nutrient Management Recommendations Test

YEAR		2			N (lbs/A)	P2O5 (lbs/A)	K2O (lbs/A)	Mg (lbs/A)	Mn (lbs/A)	Zn (lbs/A)	Cu (lbs/A)	Lime (tons/A)
Tract	Field	780	12	Req'd Nutrients	*144	0	0	0	0	0	0	0
Acres	App. Period	5.30	9/1-4/30	Supplied By:								
CROP		Wheat, Grain		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		Nahunta		Residual	0	0	0	0	0	0	0	0
RYE	Sample Date	60 bu.	01-27-11	Manure	144	78	197	18	1	3	1	0
P Removal	Rating	30 lbs/ac.	Low	BALANCE	0	78	197	18	1	3	1	0
Tract	Field	780	13	Req'd Nutrients	*131	0	0	0	0	0	0	0
Acres	App. Period	3.63	2/15-6/30	Supplied By:								
CROP		Corn, Grain		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		Leaf		Residual	0	0	0	0	0	0	0	0
RYE	Sample Date	105 bu.	01-27-11	Manure	131	71	179	16	1	3	1	0
P Removal	Rating	46 lbs/ac.	Medium	BALANCE	0	71	179	16	1	3	1	0
Tract	Field	780	13	Req'd Nutrients	*120	0	0	0	10	0	0	0
Acres	App. Period	3.63	9/1-4/30	Supplied By:								
CROP		Wheat, Grain		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		Leaf		Residual	0	0	0	0	0	0	0	0
RYE	Sample Date	50 bu.	01-27-11	Manure	120	65	164	15	1	3	1	0
P Removal	Rating	25 lbs/ac.	Medium	BALANCE	0	65	164	15	-9	3	1	0
Tract	Field	780	14	Req'd Nutrients	*156	0	0	0	0	0	0	0
Acres	App. Period	5.38	2/15-6/30	Supplied By:								
CROP		Corn, Grain		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		Nahunta		Residual	0	0	0	0	0	0	0	0
RYE	Sample Date	125 bu.	01-27-11	Manure	156	85	214	19	1	4	1	0
P Removal	Rating	55 lbs/ac.	Low	BALANCE	0	85	214	19	1	4	1	0
Tract	Field	780	14	Req'd Nutrients	*144	0	0	0	0	0	0	0
Acres	App. Period	5.38	9/1-4/30	Supplied By:								
CROP		Wheat, Grain		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		Nahunta		Residual	0	0	0	0	0	0	0	0
RYE	Sample Date	60 bu.	01-27-11	Manure	144	78	197	18	1	3	1	0
P Removal	Rating	30 lbs/ac.	Low	BALANCE	0	78	197	18	1	3	1	0

Nutrient Management Recommendations Test

YEAR		2			N (lbs/A)	P2O5 (lbs/A)	K2O (lbs/A)	Mg (lbs/A)	Mn (lbs/A)	Zn (lbs/A)	Cu (lbs/A)	Lime (tons/A)
Tract	Field	780	17	Req'd Nutrients	*131	0	0	0	0	0	0	0
Acres	App. Period	3.91	2/15-6/30	Supplied By:								
CROP		Corn, Grain		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		Leaf		Residual	0	0	0	0	0	0	0	0
RYE	Sample Date	105 bu.	01-27-11	Manure	131	71	179	16	1	3	1	0
P Removal	Rating	46 lbs/ac.	Medium	BALANCE	0	71	179	16	1	3	1	0
Tract	Field	780	18	Req'd Nutrients	*131	0	0	0	0	0	0	0
Acres	App. Period	4.32	2/15-6/30	Supplied By:								
CROP		Corn, Grain		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		Leaf		Residual	0	0	0	0	0	0	0	0
RYE	Sample Date	105 bu.	01-27-11	Manure	131	71	179	16	1	3	1	0
P Removal	Rating	46 lbs/ac.	Medium	BALANCE	0	71	179	16	1	3	1	0
Tract	Field	780	18	Req'd Nutrients	*120	0	0	0	10	0	0	0
Acres	App. Period	4.32	9/1-4/30	Supplied By:								
CROP		Wheat, Grain		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		Leaf		Residual	0	0	0	0	0	0	0	0
RYE	Sample Date	50 bu.	01-27-11	Manure	120	65	164	15	1	3	1	0
P Removal	Rating	25 lbs/ac.	Medium	BALANCE	0	65	164	15	-9	3	1	0
Tract	Field	780	19	Req'd Nutrients	*131	0	0	0	0	0	0	0
Acres	App. Period	5.04	2/15-6/30	Supplied By:								
CROP		Corn, Grain		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		Leaf		Residual	0	0	0	0	0	0	0	0
RYE	Sample Date	105 bu.	01-27-11	Manure	131	71	179	16	1	3	1	0
P Removal	Rating	46 lbs/ac.	Medium	BALANCE	0	71	179	16	1	3	1	0
Tract	Field	780	19	Req'd Nutrients	*120	0	0	0	10	0	0	0
Acres	App. Period	5.04	9/1-4/30	Supplied By:								
CROP		Wheat, Grain		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		Leaf		Residual	0	0	0	0	0	0	0	0
RYE	Sample Date	50 bu.	01-27-11	Manure	120	65	164	15	1	3	1	0
P Removal	Rating	25 lbs/ac.	Medium	BALANCE	0	65	164	15	-9	3	1	0

Nutrient Management Recommendations Test

YEAR		2			N (lbs/A)	P2O5 (lbs/A)	K2O (lbs/A)	Mg (lbs/A)	Mn (lbs/A)	Zn (lbs/A)	Cu (lbs/A)	Lime (tons/A)
Tract	Field	780	7	Req'd Nutrients	*128	0	0	0	0	0	0	0
Acres	App. Period	5.70	4/1-9/15	Supplied By:								
CROP		Soybeans, Manured, Double Crop		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		Lenoir		Residual	0	0	0	0	0	0	0	0
RYE	Sample Date	32 bu.	01-27-11	Manure	128	70	175	16	1	3	1	0
P Removal	Rating	26 lbs/ac.	Medium	BALANCE	0	70	175	16	1	3	1	0
Tract	Field	780	8	Req'd Nutrients	*128	0	0	0	0	0	0	0
Acres	App. Period	5.58	4/1-9/15	Supplied By:								
CROP		Soybeans, Manured, Double Crop		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		Lenoir		Residual	0	0	0	0	0	0	0	0
RYE	Sample Date	32 bu.	01-27-11	Manure	128	70	175	16	1	3	1	0
P Removal	Rating	26 lbs/ac.	Medium	BALANCE	0	70	175	16	1	3	1	0
Tract	Field	780	9	Req'd Nutrients	*152	0	0	0	0	0	0	0
Acres	App. Period	2.85	4/1-9/15	Supplied By:								
CROP		Soybeans, Manured, Double Crop		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		Nahunta		Residual	0	0	0	0	0	0	0	0
RYE	Sample Date	38 bu.	01-27-11	Manure	152	83	208	19	1	3	1	0
P Removal	Rating	30 lbs/ac.	Low	BALANCE	0	83	208	19	1	3	1	0

NOTE: Symbol * means user entered data.

Nutrient Management Recommendations Test

YEAR		3			N (lbs/A)	P2O5 (lbs/A)	K2O (lbs/A)	Mg (lbs/A)	Mn (lbs/A)	Zn (lbs/A)	Cu (lbs/A)	Lime (tons/A)
Tract	Field	780	14	Req'd Nutrients	*152	0	0	0	0	0	0	0
Acres	App. Period	5.38	4/1-9/15	Supplied By:								
CROP		Soybeans, Manured, Double Crop		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		Nahunta		Residual	0	0	0	0	0	0	0	0
RYE	Sample Date	38 bu.	01-27-11	Manure	152	83	208	19	1	3	1	0
P Removal	Rating	30 lbs/ac.	Low	BALANCE	0	83	208	19	1	3	1	0
Tract	Field	780	15	Req'd Nutrients	*128	0	0	0	0	0	0	0
Acres	App. Period	3.65	4/1-9/15	Supplied By:								
CROP		Soybeans, Manured, Double Crop		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		Leaf		Residual	0	0	0	0	0	0	0	0
RYE	Sample Date	32 bu.	01-27-11	Manure	128	70	175	16	1	3	1	0
P Removal	Rating	26 lbs/ac.	Medium	BALANCE	0	70	175	16	1	3	1	0
Tract	Field	780	16	Req'd Nutrients	*128	0	0	0	0	0	0	0
Acres	App. Period	3.72	4/1-9/15	Supplied By:								
CROP		Soybeans, Manured, Double Crop		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		Leaf		Residual	0	0	0	0	0	0	0	0
RYE	Sample Date	32 bu.	01-27-11	Manure	128	70	175	16	1	3	1	0
P Removal	Rating	26 lbs/ac.	Medium	BALANCE	0	70	175	16	1	3	1	0
Tract	Field	780	17	Req'd Nutrients	*128	0	0	0	0	0	0	0
Acres	App. Period	3.91	4/1-9/15	Supplied By:								
CROP		Soybeans, Manured, Double Crop		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		Leaf		Residual	0	0	0	0	0	0	0	0
RYE	Sample Date	32 bu.	01-27-11	Manure	128	70	175	16	1	3	1	0
P Removal	Rating	26 lbs/ac.	Medium	BALANCE	0	70	175	16	1	3	1	0
Tract	Field	780	18	Req'd Nutrients	*128	0	0	0	0	0	0	0
Acres	App. Period	4.32	4/1-9/15	Supplied By:								
CROP		Soybeans, Manured, Double Crop		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		Leaf		Residual	0	0	0	0	0	0	0	0
RYE	Sample Date	32 bu.	01-27-11	Manure	128	70	175	16	1	3	1	0
P Removal	Rating	26 lbs/ac.	Medium	BALANCE	0	70	175	16	1	3	1	0

Nutrient Management Recommendations Test

YEAR		3			N (lbs/A)	P2O5 (lbs/A)	K2O (lbs/A)	Mg (lbs/A)	Mn (lbs/A)	Zn (lbs/A)	Cu (lbs/A)	Lime (tons/A)
Tract	Field	780	6	Req'd Nutrients	*81	0	0	0	0	0	0	0
Acres	App. Period	5.70	3/15-7/31	Supplied By:								
CROP		Cotton		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		Leaf		Residual	20	0	0	0	0	0	0	0
RYE	Sample Date	675 lbs.	01-27-11	Manure	61	33	84	7	0	1	0	0
P Removal	Rating	20 lbs/ac.	Low	BALANCE	0	33	84	7	0	1	0	0
Tract	Field	780	7	Req'd Nutrients	*84	0	0	0	0	0	0	0
Acres	App. Period	5.70	3/15-7/31	Supplied By:								
CROP		Cotton		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		Lenoir		Residual	20	0	0	0	0	0	0	0
RYE	Sample Date	700 lbs.	01-27-11	Manure	64	35	88	8	0	1	0	0
P Removal	Rating	20 lbs/ac.	Medium	BALANCE	0	35	88	8	0	1	0	0
Tract	Field	780	8	Req'd Nutrients	*84	0	0	0	0	0	0	0
Acres	App. Period	5.58	3/15-7/31	Supplied By:								
CROP		Cotton		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		Lenoir		Residual	20	0	0	0	0	0	0	0
RYE	Sample Date	700 lbs.	01-27-11	Manure	64	35	88	8	0	1	0	0
P Removal	Rating	20 lbs/ac.	Medium	BALANCE	0	35	88	8	0	1	0	0
Tract	Field	780	9	Req'd Nutrients	*96	0	0	0	0	0	0	0
Acres	App. Period	2.85	3/15-7/31	Supplied By:								
CROP		Cotton		Starter	0	0	0	0	0	0	0	0
				Commercial Fert.	0	0	0	0	0	0	0	0
Soil Series		Nahunta		Residual	20	0	0	0	0	0	0	0
RYE	Sample Date	800 lbs.	01-27-11	Manure	76	41	104	9	0	2	0	0
P Removal	Rating	23 lbs/ac.	Low	BALANCE	0	41	104	9	0	2	0	0

NOTE: Symbol * means user entered data.

The Required Soil Test Values shown in the following table provide a summary of recommended actions that should be taken if soil tests indicate excessive levels of copper or zinc. Fields that receive manure must have an annual soil analysis for these elements. High levels of zinc and copper can adversely affect plant growth. Alternative crop sites must be used when the concentration of these metals approach excessive levels. Site life can be estimated by dividing the amount of copper and zinc to be applied in lbs/acre by 0.036 and 0.071, respectively and multiplying the result by 0.85. By adding this quantity to the current soil index for copper or zinc, we can predict life of the site for waste disposal.

In addition to copper and zinc indices, this table also provides a summary of lime recommendations for each crop based on the most recent soil sample. Application of lime at recommended rates is necessary to maintain soil pH in the optimum range for crop production.

Required Soil Test Values

Tract	Field	Crop	pH	Lime Recom. (tons/acre)	Cu-I	Copper Recommendation	Zn-I	Zinc Recommendation
780	1	Corn, Grain	5.6	0.0	27	None	104	None
780	1	Wheat, Grain	5.6	0.0	27	None	104	None
780	1	Soybeans, Manured, Double Crop	5.6	0.0	27	None	104	None
780	1	Cotton	5.6	0.0	27	None	104	None
780	10	Corn, Grain	6.4	0.0	33	None	59	None
780	10	Wheat, Grain	6.4	0.0	33	None	59	None
780	10	Soybeans, Manured, Double Crop	6.4	0.0	33	None	59	None
780	10	Cotton	6.4	0.0	33	None	59	None
780	11	Cotton	6.0	0.4	26	None	114	None
780	11	Corn, Grain	6.0	0.0	26	None	114	None
780	11	Wheat, Grain	6.0	0.0	26	None	114	None
780	11	Soybeans, Manured, Double Crop	6.0	0.0	26	None	114	None
780	12	Cotton	6.4	0.0	33	None	59	None
780	12	Corn, Grain	6.4	0.0	33	None	59	None
780	12	Wheat, Grain	6.4	0.0	33	None	59	None
780	12	Soybeans, Manured, Double Crop	6.4	0.0	33	None	59	None
780	13	Cotton	6.0	0.4	26	None	114	None
780	13	Corn, Grain	6.0	0.0	26	None	114	None
780	13	Wheat, Grain	6.0	0.0	26	None	114	None
780	13	Soybeans, Manured, Double Crop	6.0	0.0	26	None	114	None
780	14	Cotton	6.4	0.0	33	None	59	None
780	14	Corn, Grain	6.4	0.0	33	None	59	None
780	14	Wheat, Grain	6.4	0.0	33	None	59	None

Required Soil Test Values

Tract	Field	Crop	pH	Lime Recon. (tons/acre)	Cu-I	Copper Recommendation	Zn-I	Zinc Recommendation
780	14	Soybeans, Manured, Double Crop	6.4	0.0	33	None	59	None
780	15	Cotton	6.0	0.4	26	None	114	None
780	15	Corn, Grain	6.0	0.0	26	None	114	None
780	15	Wheat, Grain	6.0	0.0	26	None	114	None
780	15	Soybeans, Manured, Double Crop	6.0	0.0	26	None	114	None
780	16	Cotton	6.0	0.4	26	None	114	None
780	16	Corn, Grain	6.0	0.0	26	None	114	None
780	16	Wheat, Grain	6.0	0.0	26	None	114	None
780	16	Soybeans, Manured, Double Crop	6.0	0.0	26	None	114	None
780	17	Cotton	6.0	0.4	26	None	114	None
780	17	Corn, Grain	6.0	0.0	26	None	114	None
780	17	Wheat, Grain	6.0	0.0	26	None	114	None
780	17	Soybeans, Manured, Double Crop	6.0	0.0	26	None	114	None
780	18	Cotton	6.0	0.4	26	None	114	None
780	18	Corn, Grain	6.0	0.0	26	None	114	None
780	18	Wheat, Grain	6.0	0.0	26	None	114	None
780	18	Soybeans, Manured, Double Crop	6.0	0.0	26	None	114	None
780	19	Cotton	6.0	0.4	26	None	114	None
780	19	Corn, Grain	6.0	0.0	26	None	114	None
780	19	Wheat, Grain	6.0	0.0	26	None	114	None
780	19	Soybeans, Manured, Double Crop	6.0	0.0	26	None	114	None
780	2	Corn, Grain	5.6	0.0	27	None	104	None
780	2	Wheat, Grain	5.6	0.0	27	None	104	None
780	2	Soybeans, Manured, Double Crop	5.6	0.0	27	None	104	None
780	2	Cotton	5.6	0.0	27	None	104	None
780	20	Fescue Hay	6.2	0.0	35	None	137	None
780	21	Fescue Hay	6.2	0.0	36	None	152	None
780	3	Corn, Grain	6.3	0.0	21	None	104	None
780	3	Wheat, Grain	6.3	0.0	21	None	104	None
780	3	Soybeans, Manured, Double Crop	6.3	0.0	21	None	104	None

Required Soil Test Values

Tract	Field	Crop	pH	Lime Recom. (tons/acre)	Cu-I	Copper Recommendation	Zn-I	Zinc Recommendation
780	3	Cotton	6.3	0.0	21	None	104	None
780	4	Corn, Grain	6.3	0.0	21	None	104	None
780	4	Wheat, Grain	6.3	0.0	21	None	104	None
780	4	Soybeans, Manured, Double Crop	6.3	0.0	21	None	104	None
780	4	Cotton	6.3	0.0	21	None	104	None
780	5	Corn, Grain	5.8	0.0	27	None	134	None
780	5	Wheat, Grain	5.8	0.0	27	None	134	None
780	5	Soybeans, Manured, Double Crop	5.8	0.0	27	None	134	None
780	5	Cotton	5.8	0.0	27	None	134	None
780	6	Corn, Grain	6.2	0.0	50	None	61	None
780	6	Wheat, Grain	6.2	0.0	50	None	61	None
780	6	Soybeans, Manured, Double Crop	6.2	0.0	50	None	61	None
780	6	Cotton	6.2	0.0	50	None	61	None
780	7	Corn, Grain	6.1	0.0	32	None	154	None
780	7	Wheat, Grain	6.1	0.0	32	None	154	None
780	7	Soybeans, Manured, Double Crop	6.1	0.0	32	None	154	None
780	7	Cotton	6.1	0.0	32	None	154	None
780	8	Corn, Grain	6.2	0.0	55	None	70	None
780	8	Wheat, Grain	6.2	0.0	55	None	70	None
780	8	Soybeans, Manured, Double Crop	6.2	0.0	55	None	70	None
780	8	Cotton	6.2	0.0	55	None	70	None
780	9	Corn, Grain	6.4	0.0	33	None	59	None
780	9	Wheat, Grain	6.4	0.0	33	None	59	None
780	9	Soybeans, Manured, Double Crop	6.4	0.0	33	None	59	None
780	9	Cotton	6.4	0.0	33	None	59	None

The following Lagoon Sludge Nitrogen Utilization table provides an estimate of the number of acres needed for sludge utilization for the indicated accumulation period. These estimates are based on average nitrogen concentrations for each source, the number of animals in the facility and the plant available nitrogen application rates shown in the second column.

Lagoon sludge contains nutrients and organic matter remaining after treatment and application of the effluent. At clean out, this material must be utilized for crop production and applied at agronomic rates. In most cases, the priority nutrient is nitrogen but other nutrients including phosphorous, copper and zinc can also be limiting. Since nutrient levels are generally very high, application of sludge must be carefully applied.

Sites must first be evaluated for their suitability for sludge application. Ideally, effluent spray fields should not be used for sludge application. If this is not possible, care should be taken not to load effluent application fields with high amounts of copper and zinc so that additional effluent cannot be applied. On sites vulnerable to surface water moving to streams and lakes, phosphorous is a concern. Soils containing very high phosphorous levels may also be a concern.

Lagoon Sludge Nitrogen Utilization Table

Crop	Maximum PA-N Rate lb/ac	Maximum Sludge Application Rate 1000 gal/ac	Minimum Acres 5 Years Accumulation	Minimum Acres 10 Years Accumulation	Minimum Acres 15 Years Accumulation
Swine Feeder-Finish Lagoon Sludge - Standard					
Corn 120 bu	150	13.16	44.13	88.26	132.38
Hay 6 ton R.Y.E.	300	26.32	22.06	44.13	66.19
Soybean 40 bu	160	14.04	41.37	82.74	124.11

The Available Waste Storage Capacity table provides an estimate of the number of days of storage capacity available at the end of each month of the plan. Available storage capacity is calculated as the design storage capacity in days minus the number of days of net storage volume accumulated. The start date is a value entered by the user and is defined as the date prior to applying nutrients to the first crop in the plan at which storage volume in the lagoon or holding pond is equal to zero.

Available storage capacity should be greater than or equal to zero and less than or equal to the design storage capacity of the facility. If the available storage capacity is greater than the design storage capacity, this indicates that the plan calls for the application of nutrients that have not yet accumulated. If available storage capacity is negative, the estimated volume of accumulated waste exceeds the design storage volume of the structure. Either of these situations indicates that the planned application interval in the waste utilization plan is inconsistent with the structure's temporary storage capacity.

Available Waste Storage Capacity

Source Name	Swine Feeder-Finish Lagoon Liquid		Design Storage Capacity (Days)
Start Date	9/1		180
Plan Year	Month	Available Storage Capacity (Days) *	
1	1	52	
1	2	72	
1	3	114	
1	4	157	
1	5	180	
1	6	180	
1	7	177	
1	8	151	
1	9	147	
1	10	152	
1	11	155	
1	12	147	
2	1	139	
2	2	180	
2	3	180	
2	4	180	
2	5	180	
2	6	180	
2	7	180	
2	8	180	
2	9	180	
2	10	180	
2	11	180	
2	12	174	
3	1	168	
3	2	175	
3	3	180	

Required Specifications For Animal Waste Management

1. **Animal waste shall not reach surface waters of the state by runoff, drift, manmade conveyances, direct application, or direct discharge during operation or land application. Any discharge of waste that reaches surface water is prohibited.**
2. **There must be documentation in the design folder that the producer either owns or has an agreement for use of adequate land on which to properly apply the waste. If the producer does not own adequate land to properly dispose of the waste, he/she shall provide evidence of an agreement with a landowner, who is within a reasonable proximity, allowing him/her the use of the land for waste application. It is the responsibility of the owner of the waste production facility to secure an update of the Nutrient Management Plan when there is a change in the operation, increase in the number of animals, method of application, receiving crop type, or available land.**
3. **Animal waste shall be applied to meet, but not exceed, the nitrogen needs for realistic crop yields based upon soil type, available moisture, historical data, climatic conditions, and level of management, unless there are regulations that restrict the rate of applications for other nutrients.**
4. **Animal waste shall be applied to land eroding less than 5 tons per acre per year. Waste may be applied to land eroding at more than 5 tons per acre per year but less than 10 tons per acre per year provided grass filter strips are installed where runoff leaves the field (see USDA, NRCS Field Office Technical Guide Standard 393 - Filter Strips).**
5. **Odors can be reduced by injecting the waste or by disking after waste application. Waste should not be applied when there is danger of drift from the land application field.**
6. **When animal waste is to be applied on acres subject to flooding, waste will be soil incorporated on conventionally tilled cropland. When waste is applied to conservation tilled crops or grassland, the waste may be broadcast provided the application does not occur during a season prone to flooding (see "Weather and Climate in North Carolina" for guidance).**
7. **Liquid waste shall be applied at rates not to exceed the soil infiltration rate such that runoff does not occur offsite or to surface waters and in a method which does not cause drift from the site during application. No ponding should occur in order to control odor and flies.**

17. **A protective cover of appropriate vegetation will be established on all disturbed areas (lagoon embankments, berms, pipe runs, etc.). Areas shall be fenced, as necessary, to protect the vegetation. Vegetation such as trees, shrubs, and other woody species, etc., are limited to areas where considered appropriate. Lagoon areas should be kept mowed and accessible. Berms and structures should be inspected regularly for evidence of erosion, leakage, or discharge.**
18. **If animal production at the facility is to be suspended or terminated, the owner is responsible for obtaining and implementing a "closure plan" which will eliminate the possibility of an illegal discharge, pollution, and erosion.**
19. **Waste handling structures, piping, pumps, reels, etc., should be inspected on a regular basis to prevent breakdowns, leaks, and spills. A regular maintenance checklist should be kept on site.**
20. **Animal waste can be used in a rotation that includes vegetables and other crops for direct human consumption. However, if animal waste is used on crops for direct human consumption, it should only be applied pre-plant with no further applications of animal waste during the crop season.**
21. **Highly visible markers shall be installed to mark the top and bottom elevations of the temporary storage (pumping volume) of all waste treatment lagoons. Pumping shall be managed to maintain the liquid level between the markers. A marker will be required to mark the maximum storage volume for waste storage ponds.**
22. **Waste shall be tested within 60 days of utilization and soil shall be tested at least annually at crop sites where waste products are applied. Nitrogen shall be the rate-determining nutrient, unless other restrictions require waste to be applied based on other nutrients, resulting in a lower application rate than a nitrogen based rate. Zinc and copper levels in the soils shall be monitored and alternative crop sites shall be used when these metals approach excessive levels. pH shall be adjusted and maintained for optimum crop production. Soil and waste analysis records shall be kept for a minimum of five years. Poultry dry waste application records shall be maintained for a minimum of three years.**
Waste application records for all other waste shall be maintained for five (5) years.
23. **Dead animals will be disposed of in a manner that meets North Carolina regulations.**

Crop Notes

The following crop note applies to field(s): 1, 11, 13, 15, 16, 17, 18, 19, 2, 3, 4, 5, 6

Corn 1: CP, Mineral Soil, low-leachable

In the Coastal Plain, corn is normally planted when soil temperatures reach 52 to 55 degrees fahrenheit. Review the Official Variety "green book" and information from private companies to select a high yielding variety with the characteristics needed for your area and conditions. Plant 1-2" deep. Plant populations should be determined by the hybrid being planted. Increase the seeding rate by 10% when planting no-till. Phosphorus and potassium recommended by a soil test can be broadcast or banded at planting. When planting early in cool, wet soil, banded phosphorus will be more available to the young plants. An accepted practice is to apply 20-30 lbs/acre N and 20-30 lbs/acre phosphorus banded as a starter and one-half the remaining N behind the planter. The rest of the N should be applied about 30-40 days after emergence. The total amount of N is dependent on soil type. When including a starter in the fertilizer program, the recommended potassium and any additional phosphorus is normally broadcast at planting. Plant samples can be analyzed during the growing season to monitor the overall nutrient status of the corn. Timely management of weeds and insects are essential for corn production.

The following crop note applies to field(s): 10, 12, 14, 9

Corn 1: CP, Mineral Soil, low-leachable

In the Coastal Plain, corn is normally planted when soil temperatures reach 52 to 55 degrees fahrenheit. Review the Official Variety "green book" and information from private companies to select a high yielding variety with the characteristics needed for your area and conditions. Plant 1-2" deep. Plant populations should be determined by the hybrid being planted. Increase the seeding rate by 10% when planting no-till. Phosphorus and potassium recommended by a soil test can be broadcast or banded at planting. When planting early in cool, wet soil, banded phosphorus will be more available to the young plants. An accepted practice is to apply 20-30 lbs/acre N and 20-30 lbs/acre phosphorus banded as a starter and one-half the remaining N behind the planter. The rest of the N should be applied about 30-40 days after emergence. The total amount of N is dependent on soil type. When including a starter in the fertilizer program, the recommended potassium and any additional phosphorus is normally broadcast at planting. Plant samples can be analyzed during the growing season to monitor the overall nutrient status of the corn. Timely management of weeds and insects are essential for corn production.

The following crop note applies to field(s): 10, 12, 14, 9

Cotton CP, Mineral Soil, low-leachable

In the Coastal Plain, cotton is normally planted from April 15-May 5 when warm(above 65 F) temperatures and dry weather are present and predicted to remain for at least 5 to 7 days after planting. Avoid planting after May 20 if at all possible. Review the NCSU Official Variety "green book" and information from private companies to select a high yielding variety with characteristics needed for your area and conditions. Plant 4-6 seed/row foot at a depth of 1/2-1". Adequate depth control is essential. Recommended phosphorus and potash can be broadcast or banded at planting. Apply 20-25 lbs/acre N at planting. Apply the remaining recommended N as a sidedress application 2 to 3 weeks after first square. The total N needed is dependent on soil type. Apply 1.0 lb/acre actual boron either at planting or at sidedress; or, foliar apply 1/2 lb/acre actual boron with 1/4 lb/acre applied at early bloom and the other 1/4 lb/acre about 2 weeks later. The boron needs to be available to the cotton during fruiting. Tissue samples can be analyzed during the growing season to monitor the nutrient status of the cotton. Timely management of insects, weeds, and excessive vegetative growth are essential for profitable cotton production.

The following crop note applies to field(s): 7, 8

Cotton CP, Mineral Soil, low-leachable

In the Coastal Plain, cotton is normally planted from April 15-May 5 when warm(above 65 F) temperatures and dry weather are present and predicted to remain for at least 5 to 7 days after planting. Avoid planting after May 20 if at all possible. Review the NCSU Official Variety "green book" and information from private companies to select a high yielding variety with characteristics needed for your area and conditions. Plant 4-6 seed/row foot at a depth of 1/2-1". Adequate depth control is essential. Recommended phosphorus and potash can be broadcast or banded at planting. Apply 20-25 lbs/acre N at planting. Apply the remaining recommended N as a sidedress application 2 to 3 weeks after first square. The total N needed is dependent on soil type. Apply 1.0 lb/acre actual boron either at planting or at sidedress; or, foliar apply 1/2 lb/acre actual boron with 1/4 lb/acre applied at early bloom and the other 1/4 lb/acre about 2 weeks later. The boron needs to be available to the cotton during fruiting. Tissue samples can be analyzed during the growing season to monitor the nutrient status of the cotton. Timely management of insects, weeds, and excessive vegetative growth are essential for profitable cotton production.

The following crop note applies to field(s): 20, 21

Fescue: Coastal Plain, Mineral Soil, Poorly Drained to Somewhat Poorly Drained.

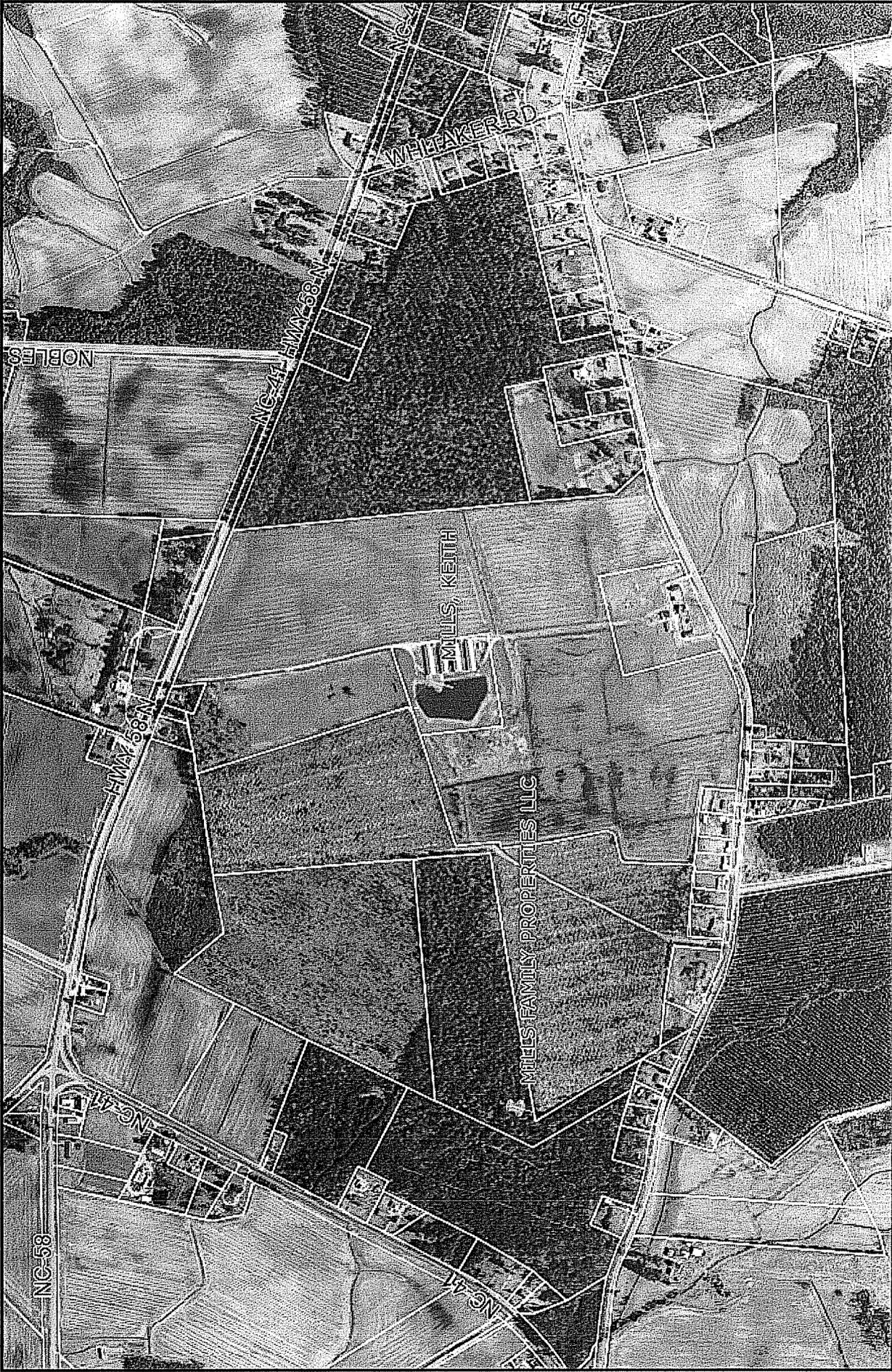
Adaptation: Moderate to Marginal.

In the Coastal Plain, tall fescue can be planted Sept. 1 to Oct. 15 (best) and Feb. 15 to Mar. 20. For pure-stand broadcast seedings use 20 to 30 lb/ac., for drilled use 15 to 20 lb/ac. seed. Use certified seed to avoid introducing weeds or annual ryegrass. Plant seed 0.25" to 0.5" deep for pure stands, 0.25" in mixture with clovers. Tall fescue will tolerate soil wetness but not flooding or prolonged saturation; use ladino clover for mixtures on these soils. Soil test for preplant and maintenance lime, phosphorus, and potassium recommendations. Apply 40 to 60 lb/ac nitrogen at planting for pure stands only. Do not apply N for mixtures with clovers but use proper legume inoculation techniques. Apply 150 to 200 lb/ac. N to pure-stand fescue for hay production; reduce N rates by 25% to 50% for grazing. Apply N Feb. 1 to Mar. 20 and Aug. 20 to Sept. 30, with equal amounts in each window. Refer to NCSU Technical Bulletin 305 Production and Utilization of Pastures and Forages in North Carolina for additional information or consult your regional agronomist or extension agent for assistance.

The following crop note applies to field(s): 1, 11, 13, 15, 16, 17, 18, 19, 2, 3, 4, 5, 6

Double-Crop Soybeans, Coastal Plain: Mineral Soil, low-leachable

Double-crop soybeans should be planted as early in June as possible with planting completed by July 4th. When no-tilling soybeans in small grain straw, it is essential to manage the straw to achieve adequate plant populations. Review the NCSU Official Variety "green book" and information from private companies to select a high yielding variety with the characteristics needed for your area and conditions. Plant 2-4 seed/row foot for 7-8" drills; 4-6 seed/row foot for 15" rows; 6-8 seed/row foot for 30" rows and 8-10 seed/row foot for 36" rows. Increase the seeding rate by at least 10% for no-till planting. Seeding depth should be 1-1 1/2" and adequate depth control is essential. Phosphorus and potash recommended for the soybeans can be applied to the wheat in the Fall. Soybeans produce their own nitrogen and are normally grown without additions of nitrogen. However, applications of 20-30 lbs/acre N are sometimes made at planting to promote early growth and vigor. Tissue samples can be analyzed during the growing season to monitor the overall nutrient status of the soybeans. Timely management of weeds and insects is essential for profitable double crop soybean production.



**JONES COUNTY
TAX MAP**



Disclaimer:
The data provided on this map are prepared for the inventory of real property found within Jones County, NC and are compiled from recorded plats, deeds, and other public records and data. This data is for informational purposes only and should not be substituted for a true title search, property appraisal, survey, or for zoning verification.



One Inch = 800 Feet

Phosphorus Loss Assessment Tool Completion

Name of Facility: Donald & Susan Smith Farm Facility Number: 52-73
Owner(s) Name: Donald & Susan Smith Phone No: 252-448-1469
Mailing Address: 674 Greentown Rd. Trenton, N.C. 28585

Check the appropriate box below, and sign at the bottom:

No fields received a high or very high rating.

Yes, the fields listed below received a high or very high rating:

Field Number	Size (Acres)	Rating (High or Very High)

Please use as many additional attachment forms (PLAT-A-10-31-03) as needed for additional fields.

By completing the above section and any additional attachments and by signing this form, the facility owner and Technical Specialist acknowledge all application fields were evaluated using the Phosphorus Loss Assessment Tool. All necessary calculations were completed to conduct the Assessment. A copy will be kept on site with the Certified Animal Waste Management Plan. Any future modifications must be approved by a technical specialist and filed with the Soil and Water Conservation District prior to implementation. Waste plans with fields having a high or very high rating will have to be modified to address phosphorus loss by the next permit cycle beginning July, 2007.

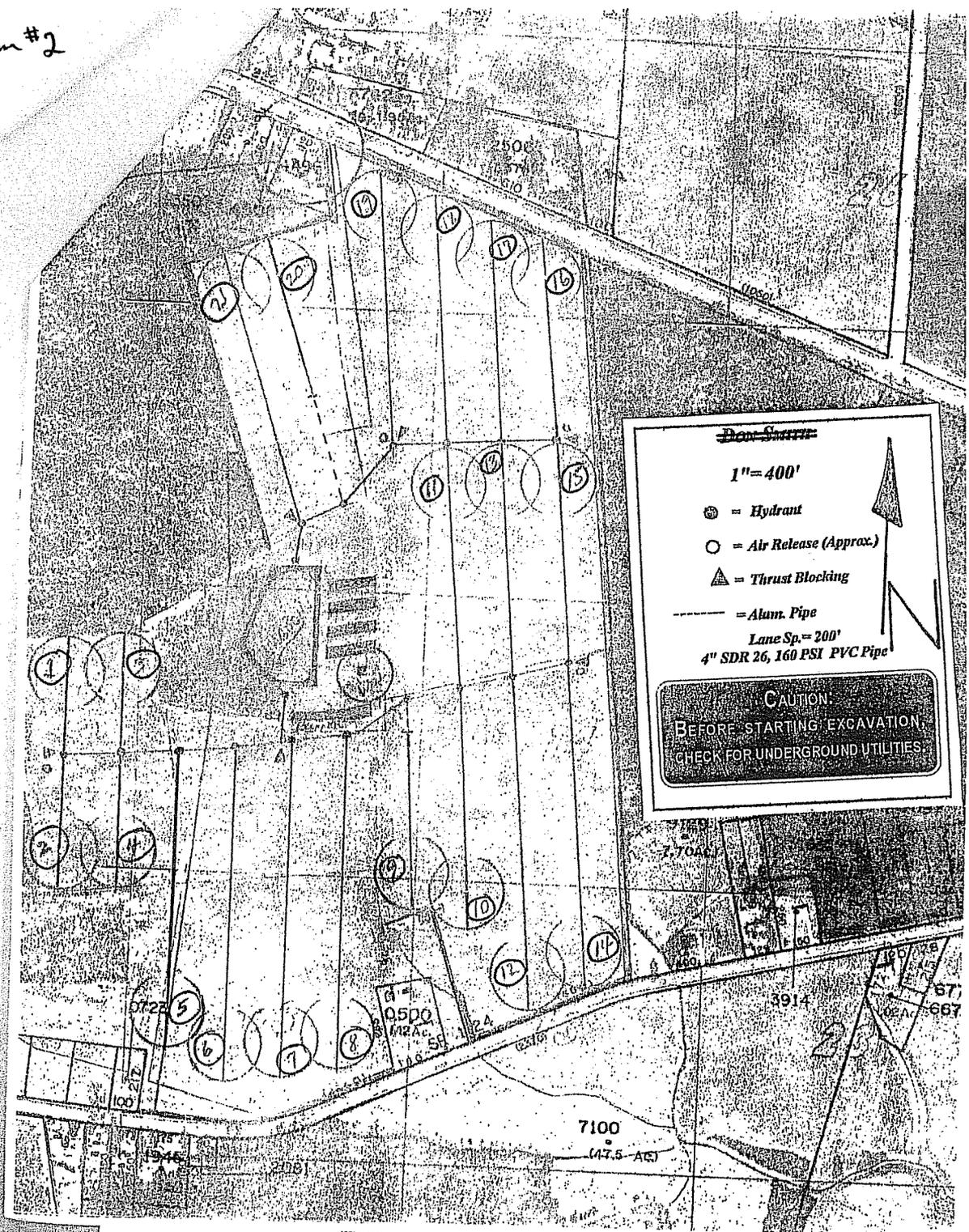
Owner Name: Donald Lee Smith
Owner Signature: [Signature] Date: 8-24-05

Technical Specialist Name: Keith Metts
Technical Specialist Signature: [Signature] Date: 8-24-05

Affiliation: Jones Co. SWCD Phone No: 252-448-2731 **EPT-3**

Submit this form to:
Attn: Keith Larick
Animal Feeding Operations Unit
NC Division of Water Quality
1636 Mail Service Center
Raleigh, NC 27699-1636

6
Triple K-Farm #2



344964

Database Version 3.1

Date Printed: 07-25-2008

Cover Page 1

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DEC 06 2012

Aquifer Protection Section

PLAT Results For: Jones 11/29/2012 3:42:10 PM

INPUTS

Calendar Year: 2012
County: Jones
Producer Identifier: K. Mills
Tract Number: 780
Field Number: 1
Soil Series: La: Leaf silt loam
Crop: Soybeans (Double Cropped - Manured) : Conservation Tillage
- high residue
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 0-9 ft
Soil Test 0" - 4" 41
WV Factor (USER) .92
Artificial Drainage System: NO
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P	=	3
SOLUBLE P	=	11
LEACHATE P	=	0
SOURCE P	=	0
<hr/>		
TOTAL P RATING	=	14 (LOW)

PLAT Results For: Jones 11/29/2012 3:43:30 PM

INPUTS

Calendar Year: 2012
County: Jones
Producer Identifier: K. Mills
Tract Number: 780
Field Number: 2
Soil Series: La: Leaf silt loam
Crop: Soybeans (Double Cropped - Manured) : Conservation Tillage
- high residue
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 0-9 ft
Soil Test 0" - 4" 57
WV Factor (USER) .89
Artificial Drainage System: NO
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P = 4
SOLUBLE P = 15
LEACHATE P = 0
SOURCE P = 0

TOTAL P RATING = 19 (LOW)

PLAT Results For: Jones 11/29/2012 3:44:20 PM

INPUTS

Calendar Year: 2012
County: Jones
Producer Identifier: K. Mills
Tract Number: 780
Field Number: 3
Soil Series: La: Leaf silt loam
Crop: Soybeans (Double Cropped - Manured) : Conservation Tillage
- high residue
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 0-9 ft
Soil Test 0" - 4" 55
WV_Factor (USER) .96
Artificial Drainage System: NO
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P = 4
SOLUBLE P = 14
LEACHATE P = 0
SOURCE P = 0

TOTAL P RATING = 18 (LOW)

PLAT Results For: Jones 11/29/2012 3:44:57 PM

INPUTS

Calendar Year: 2012
County: Jones
Producer Identifier: K. Mills
Tract Number: 780
Field Number: 4
Soil Series: La: Leaf silt loam
Crop: Soybeans (Double Cropped - Manured) : Conservation Tillage
- high residue
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 0-9 ft
Soil Test 0" - 4" 81
WV_Factor (USER) .94
Artificial Drainage System: NO
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P = 5
SOLUBLE P = 21
LEACHATE P = 0
SOURCE P = 0

TOTAL P RATING = 26 (MEDIUM)

PLAT Results For: Jones 11/29/2012 3:46:08 PM

INPUTS

Calendar Year: 2012
County: Jones
Producer Identifier: K. Mills
Tract Number: 780
Field Number: 5
Soil Series: La: Leaf silt loam
Crop: Soybeans (Double Cropped - Manured) : Conservation Tillage
- high residue
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 0-9 ft
Soil Test 0" - 4" 111
WV Factor (USER) 1.08
Artificial Drainage System: NO
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P	=	6
SOLUBLE P	=	25
LEACHATE P	=	0
SOURCE P	=	0
<hr/>		
TOTAL P RATING	=	31 (MEDIUM)

PLAT Results For: Jones 11/29/2012 3:47:23 PM

INPUTS

Calendar Year: 2012
County: Jones
Producer Identifier: K. Mills
Tract Number: 780
Field Number: 6
Soil Series: La: Leaf silt loam
Crop: Soybeans (Double Cropped - Manured) : Conservation Tillage
- high residue
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 0-9 ft
Soil Test 0" - 4" 157
WV_Factor (USER) 1.01
Artificial Drainage System: NO
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P = 10
SOLUBLE P = 38
LEACHATE P = 0
SOURCE P = 0

TOTAL P RATING = 48 (MEDIUM)

PLAT Results For: Jones 11/29/2012 3:48:38 PM

INPUTS

Calendar Year: 2012
County: Jones
Producer Identifier: K. Mills
Tract Number: 780
Field Number: 7
Soil Series: Ia: Leaf silt loam
Crop: Soybeans (Double Cropped - Manured) : Conservation Tillage
- high residue
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 0-9 ft
Soil Test 0" - 4" 164
WV_Factor (USER) 1.02
Artificial Drainage System: NO
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P = 10
SOLUBLE P = 39
LEACHATE P = 0
SOURCE P = 0
TOTAL P RATING = 49 (MEDIUM)

PLAT Results For: Jones 11/29/2012 3:49:28 PM

INPUTS

Calendar Year: 2012
County: Jones
Producer Identifier: K. Mills
Tract Number: 780
Field Number: 8
Soil Series: La: Leaf silt loam
Crop: Soybeans (Double Cropped - Manured) : Conservation Tillage
- high residue
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 0-9 ft
Soil Test 0" - 4" 164
WV_Factor (USER) 1.03
Artificial Drainage System: NO
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P = 10
SOLUBLE P = 38
LEACHATE P = 0
SOURCE P = 0

TOTAL P RATING = 48 (MEDIUM)

PLAT Results For: Jones 11/29/2012 4:04:19 PM

INPUTS

Calendar Year: 2012
County: Jones
Producer Identifier: K. Mills
Tract Number: 780
Field Number: 9
Soil Series: Na: Nahunta loam
Crop: Soybeans (Double Cropped - Manured) : Conservation Tillage
- high residue
Soil Loss: 2 t/ac/yr
Receiving Slope Distance: 0-9 ft
Soil Test 0" - 4": 144
WV_Factor (USER): 1.06
Artificial Drainage System: NO
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P = 6
SOLUBLE P = 19
LEACHATE P = 0
SOURCE P = 0

TOTAL P RATING = 25 (LOW)

PLAT Results For: Jones 11/29/2012 4:05:45 PM

INPUTS

Calendar Year: 2012
County: Jones
Producer Identifier: K. Mills
Tract Number: 780
Field Number: 10
Soil Series: Na: Nahunta loam
Crop: Soybeans (Double Cropped - Manured) : Conservation Tillage
- high residue
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 0-9 ft
Soil Test 0" - 4" 129
WV_Factor (USER) 1.11
Artificial Drainage System: NO
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P = 5
SOLUBLE P = 16
LEACHATE P = 0
SOURCE P = 0

TOTAL P RATING = 21 (LOW)

PLAT Results For: Jones 11/29/2012 3:54:44 PM

INPUTS

Calendar Year: 2012
County: Jones
Producer Identifier: K. Mills
Tract Number: 780
Field Number: 11
Soil Series: La: Leaf silt loam
Crop: Soybeans (Double Cropped - Manured) : Conservation Tillage
- high residue
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 0-9 ft
Soil Test 0" - 4" 116
WV Factor (USER) 1.04
Artificial Drainage System: NO
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P	=	7
SOLUBLE P	=	27
LEACHATE P	=	0
SOURCE P	=	0
<hr/>		
TOTAL P RATING	=	34 (MEDIUM)

PLAT Results For: Jones 11/29/2012 4:06:45 PM

INPUTS

Calendar Year: 2012
County: Jones
Producer Identifier: K. Mills
Tract Number: 780
Field Number: 12
Soil Series: Na: Nahunta loam
Crop: Soybeans (Double Cropped - Manured) : Conservation Tillage
- high residue
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 0-9 ft
Soil Test 0" - 4" 174
WV Factor (USER) 1.07
Artificial Drainage System: NO
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P	=	7
SOLUBLE P	=	23
LEACHATE P	=	0
SOURCE P	=	0
<hr/>		
TOTAL P RATING	=	30 (MEDIUM)

PLAT Results For: Jones 11/29/2012 3:56:16 PM

INPUTS

Calendar Year: 2012
County: Jones
Producer Identifier: K. Mills
Tract Number: 780
Field Number: 13
Soil Series: La: Leaf silt loam
Crop: Soybeans (Double Cropped - Manured) : Conservation Tillage
- high residue
Soil Loss: 2 t/ac/yr
Receiving Slope Distance: 0-9 ft
Soil Test 0" - 4": 148
WV_Factor (USER): 1.03
Artificial Drainage System: NO
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P	=	9
SOLUBLE P	=	35
LEACHATE P	=	0
SOURCE P	=	0
<hr/>		
TOTAL P RATING	=	44 (MEDIUM)

PLAT Results For: Jones 11/29/2012 4:07:43 PM

INPUTS

Calendar Year: 2012
County: Jones
Producer Identifier: K. Mills
Tract Number: 780
Field Number: 14
Soil Series: Na: Nahunta loam
Crop: Soybeans (Double Cropped - Manured) : Conservation Tillage
- high residue
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 0-9 ft
Soil Test 0" - 4" 86
WV_Factor (USER) 1.13
Artificial Drainage System: NO
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P = 3
SOLUBLE P = 11
LEACHATE P = 0
SOURCE P = 0
TOTAL P RATING = 14 (LOW)

PLAT Results For: Jones 11/29/2012 3:57:56 PM

INPUTS

Calendar Year: 2012
County: Jones
Producer Identifier: K. Mills
Tract Number: 780
Field Number: 15
Soil Series: La: Leaf silt loam
Crop: Soybeans (Double Cropped - Manured) : Conservation Tillage
- high residue
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 0-9 ft
Soil Test 0" - 4" 84
WV_Factor (USER) 1.07
Artificial Drainage System: NO
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P = 5
SOLUBLE P = 19
LEACHATE P = 0
SOURCE P = 0

TOTAL P RATING = 24 (LOW)

PLAT Results For: Jones 11/29/2012 3:59:29 PM

INPUTS

Calendar Year: 2012
County: Jones
Producer Identifier: K. Mills
Tract Number: 780
Field Number: 16
Soil Series: La: Leaf silt loam
Crop: Soybeans (Double Cropped - Manured) : Conservation Tillage
- high residue
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 0-9 ft
Soil Test 0" - 4" 81
WV Factor (USER) 1.02
Artificial Drainage System: NO
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P = 5
SOLUBLE P = 19
LEACHATE P = 0
SOURCE P = 0
TOTAL P RATING = 24 (LOW)

PLAT Results For: Jones 11/29/2012 4:00:42 PM

INPUTS

Calendar Year: 2012
County: Jones
Producer Identifier: K. Mills
Tract Number: 780
Field Number: 17
Soil Series: La: Leaf silt loam
Crop: Soybeans (Double Cropped - Manured) : Conservation Tillage
- high residue
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 0-9 ft
Soil Test 0" - 4" 93
WV Factor (USER) 1.00
Artificial Drainage System: NO
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P	=	6
SOLUBLE P	=	22
LEACHATE P	=	0
SOURCE P	=	0
<hr/>		
TOTAL P RATING	=	28 (MEDIUM)

PLAT Results For: Jones 11/29/2012 4:02:04 PM

INPUTS

Calendar Year: 2012
County: Jones
Producer Identifier: K. Mills
Tract Number: 780
Field Number: 18
Soil Series: La: Leaf silt loam
Crop: Soybeans (Double Cropped - Manured) : Conservation Tillage
- high residue
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 0-9 ft
Soil Test 0" - 4" 124
WV Factor (USER) 1.03
Artificial Drainage System: NO
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P = 7
SOLUBLE P = 29
LEACHATE P = 0
SOURCE P = 0

TOTAL P RATING = 36 (MEDIUM)

PLAT Results For: Jones 11/29/2012 4:02:53 PM

INPUTS

Calendar Year: 2012
County: Jones
Producer Identifier: K. Mills
Tract Number: 780
Field Number: 19
Soil Series: La: Leaf silt loam
Crop: Soybeans (Double Cropped - Manured) : Conservation Tillage
- high residue
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 0-9 ft
Soil Test 0" - 4" 83
WV Factor (USER) 1.08
Artificial Drainage System: NO
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P = 5
SOLUBLE P = 19
LEACHATE P = 0
SOURCE P = 0

TOTAL P RATING = 24 (LOW)

PLAT Results For: Jones 11/29/2012 3:50:58 PM

INPUTS

Calendar Year: 2012
County: Jones
Producer Identifier: K. Mills
Tract Number: 780
Field Number: 20
Soil Series: La: Leaf silt loam
Crop: Soybeans (Double Cropped - Manured) : Conservation Tillage
- high residue
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 0-9 ft
Soil Test 0" - 4" 145
WV_Factor (USER) .87
Artificial Drainage System: NO
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P	=	10
SOLUBLE P	=	40
LEACHATE P	=	0
SOURCE P	=	0
<hr/>		
TOTAL P RATING	=	50 (MEDIUM)

PLAT Results For: Jones 11/29/2012 3:52:16 PM

INPUTS

Calendar Year: 2012
County: Jones
Producer Identifier: K. Mills
Tract Number: 780
Field Number: 21
Soil Series: La: Leaf silt loam
Crop: Soybeans (Double Cropped - Manured) : Conservation Tillage
- high residue
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 0-9 ft
Soil Test 0" - 4" 78
WV Factor (USER) .86
Artificial Drainage System: NO
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P	=	6
SOLUBLE P	=	22
LEACHATE P	=	0
SOURCE P	=	0
<hr/>		
TOTAL P RATING	=	28 (MEDIUM)