LASA-25-01

Craven
AG SERVICES, INC.
2115 Hwy 55 West New Bern, NC 28562

BILLY DUNHAM, PRESIDENT
(252) 633-5334
(252) 670-8530

July 21,2014

Tony Gallagher
Composting and Land Application Branch
N.C. Division of Waste Management
1646 Mail Service Center
Raleigh, N. C. 27699-1646

Subject: Craven Wood Energy Wood Ash Reports for Physical year 2013-2014
Rob Suida
Plant Manager
201 Executive Parkway
New Bern, N. C. 28562

Craven Wood Energy produced 16,644 tons of fly ash physical year 2013-2014. All of the ash was hauled to Craven Ag Services storage site for off season storage. Two farmers received 11,410 ton from 1/1/14 through 6/30/14 leaving 4,645 ton in storage. Owen Peele received 8950 ton and Derrick Potter received 2,468 ton.

Both farms incorporated the ash and planted either corn or soybeans. The rates per acre varied per farm. The nutrient management plan address this for metals as well as nutrients.

1. MapQuest of the farm location
2. Nutrient loading rates and waste analysis
3. Product label
4. Metals conversion table
5. Best Management Practices
6.Driver hauling records
7. Soil Samples and field maps

The Farms received approximately 5 tons of ash per acre. The nutrient management plan includes nutrient applications as well as calculated metals application at 5 tons per acre. These calculations show that we are well under any annual loading rates for metals.

All of the ash generated from 7/1/2013-6/30/2014 was applied on the Wood Brothers farm and an additional 501 ton came from Craven Wood Energy

Sincerely,
Billy Dunham
Craven Ag Services, Inc
CC: Rob Suida

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July 21,2014

Rob Suida
Plant Manager
Craven Wood Energy
201 Executive Parkway
New Bern, N. C. 28562

Dear Mr. Suida:

I have completed my report for Craven Wood Energy's wood ash land application for Physical year 2013-2014. Two farmers received 11,410 ton of the 16,644 ton that was produced this physical year. The remaining 4,645 ton is still in storage and will be applied this fall.

Sincerely,

Billy Dunham

Billy Dunham

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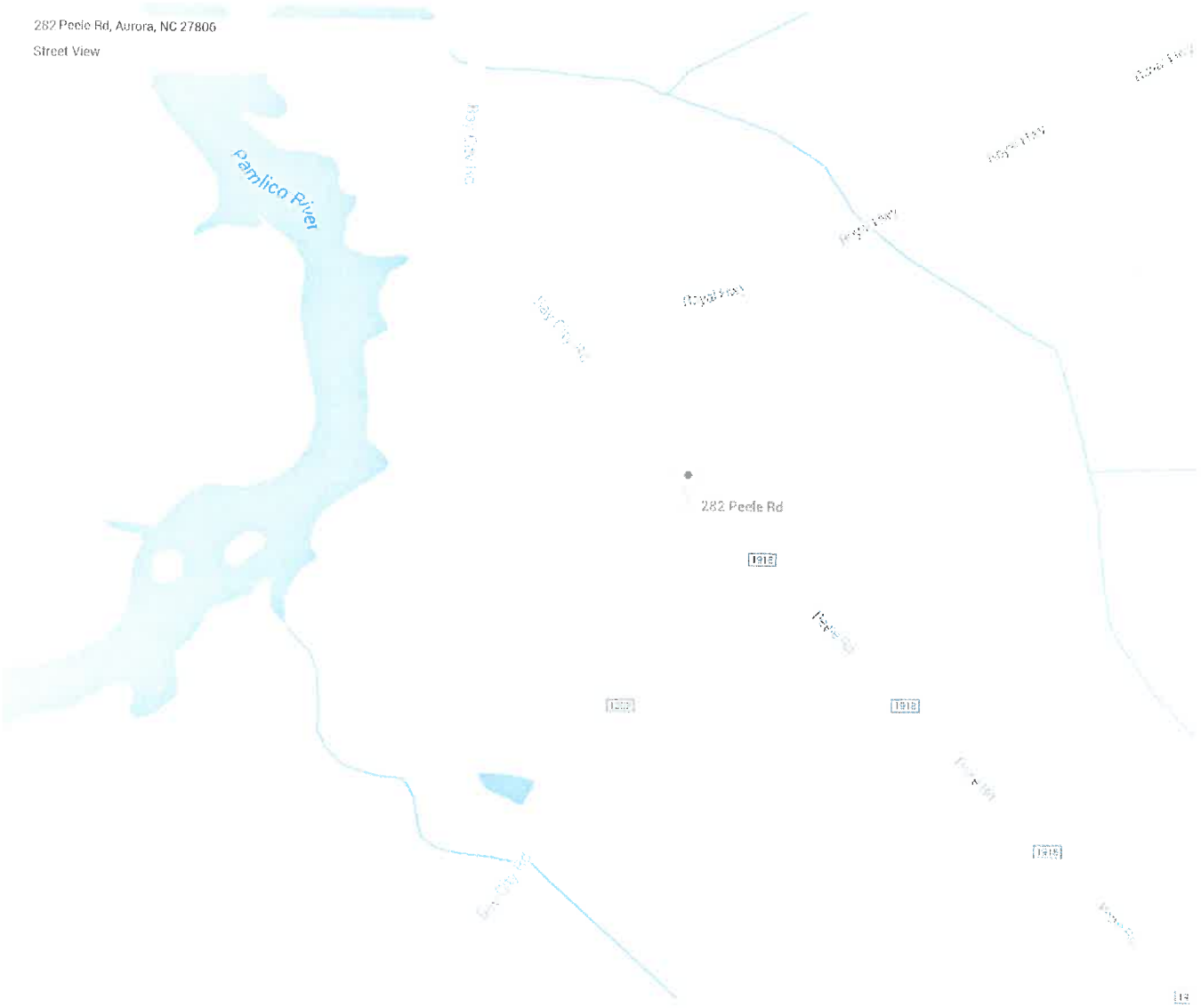
Owen Peele Farm

8,950 Ton of Wood Ash

2014

282 Peele Rd, Aurora, NC 27806

Street View



Map data ©2014 Google 200 ft

Sample Information

Sample ID: WA
Waste Code: FCW
Description:
Composted Waste - Other
Comments:
Woodash

Nutrient and Other Measurements

Nitrogen (N) (ppm)	
Total N	914
Total Kjeldahl N	
Inorganic N	
NH_4-N	
NO_3-N	
Organic N	
Urea	

P (ppm)	K (ppm)	Ca (ppm)	Mg (ppm)	S (ppm)	Fe (ppm)	Mn (ppm)	Zn (ppm)	Cu (ppm)	B (ppm)	Na (ppm)	C (ppm)
7770	28700	84700	14200	7490	22500	1660	714	260	236	3220	162000

pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE(tons)	C:N
10.18	68.1	1450	14.45	26.0	5.08 .8 Tg lime 41 "	177 : 1

Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)
19.3	3.33	44.9								

Estimate of Nutrients Available for First Crop (lb / ton)

Application Method	N	P_2O_5	K_2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo
4 Ton/ac	2	58	150.4	297	46	24	73	5	2	8	.96	
Broadcast	0.50	14.6	37.6	69.3	11.7	6.13	18.4	1.36	0.58	0.21	0.19	
Soil Incorporated	0.62	18.2	42.3	86.6	14.6	7.66	23.0	1.70	0.73	0.27	0.24	

Other Elements (lb / ton)

Cl	Na	Ni	Cd	Pb	Al	Se	Li
	4.39	0.03	T	0.06			
	4.39	0.03	T	0.06			

Sample Information

Sample ID: TDA
Waste Code: FCW
Description:
Composted Waste - Other
Comments:
Tobacco Dust

Nutrient and Other Measurements

Nitrogen (N) (ppm)	
Total N	18500
Total Kjeldahl N	
Inorganic N	260
NH_4-N	244
NO_3-N	15.3
Organic N	18200
Urea	

P (ppm)	K (ppm)	Ca (ppm)	Mg (ppm)	S (ppm)	Fe (ppm)	Mn (ppm)	Zn (ppm)	Cu (ppm)	B (ppm)	Na (ppm)	C (ppm)
2130	17000	20300	4470	2570	2120	124	62.6	12.3	30.1	79.0	319000

pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE(tons)	C:N
5.65	50.0	1530	15.31	0	0	17.3 : 1

Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)
2.32	1.30	4.87								

Estimate of Nutrients Available for First Crop (lb / ton)

Application Method	N	P_2O_5	K_2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo
Broadcast	7.38	2.93	16.3	12.2	2.68	1.54	1.27	0.07	0.04	0.01	0.02	
Soil Incorporated	9.22	3.66	18.3	15.3	3.35	1.93	1.59	0.09	0.05	0.01	0.02	

Other Elements (lb / ton)

Cl	Na	Ni	Cd	Pb	Al	Se	Li
	0.08	T	T	T			
	0.08	T	T	T			

Craven
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BILLY DUNHAM, PRESIDENT
(252) 633-5334
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June 26, 2014

Wood Ash Clients:

Peele Farms-----6,930 TONS WHERE APPLIED ON 1,810 ACRES OF CORN AND SOYBEANS. Ten (10) farms were involved and different rates per acre were applied. See the attached sheet for farms and rates per acre.

I hope your crop is doing well and we appreciate your business. I am including with your invoice a copy of the waste analysis taken on 5/27/14 of the wood ash you received. This was a random sample of our storage pile after it was screened and before it was loaded and shipped to your farm. You can pretty much depend upon at least 75% of these nutrients being available the first year. Therefore, you should not have to add any additional nutrients other than a "pop up" and nitrogen for corn. Annual soil sampling should help you monitor soil ph and other nutrients.

A summary of the analysis follows.

Nutrients received

Ton/Ac	P	K	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Lime
4	58	150	277	46	24	73	5	2	.8	.76	.8T
5	73	188	346	58.5	30	92	6	3	1	.95	1T
6	87	225	415	70	37	110	8	3	1	1	1.2T
7	102	263	485	81.9	43	129	9	4	1.5	1.3	1.4T
12	174	450	830	140	74	220	16	6	2	2	2.4T

Billy Dunham

Owen Peele WOOD ASH 2014

FIELD	ACRES	Tons Per Acre	Total Tons
HOME	171	4	684
Vandemere	174	4	696
Pecan Trees	54	4	216
Selma	73	4	292
Bay City	301	4	1204
Well Block	331	4	1324
prision	363	6	2178
Long cuts	110	6	660
Cowell Loop	220	7	1540
Airport	13	12	156
TOTALS	1810		8950

PRODUCT LABLE

AGRI-ASH

WOOD FLY ASH

Guaranteed Analysis

Calcium (Ca)	6%
Calcium Carbonate Equiv.	20%
Magnesium (mg)	10%
Passing 20 Mesh Screen	90%
Passing 100 Mesh Screen	45%

Total Tons per load: _____

10,000 lbs (5ton) of this material equals 2,000 lbs (1 ton) of N. C. Calcitic Liming standards.

CRAVEN AG SERVICES, INC.

2115 HWY 55 WEST

NEW BERN, N.C. 28562

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AG SERVICES, INC.
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ANNUAL
METALS CONVERSION
FOR WOODASH
CRAVEN WOOD ENERGY
2014

Change mg/l to Mg/Kg by taking the average DM% of the NCDA Waste Analysis Report and dividing it into the mg/l value of each metal. Then converted the Mg/Kg into lbs per ton by multiplying by.002.converson factor. Then using the ALE liming factor from the NCDA Waste Analysis Report (average 5 to 1) to get the annual application rate of each metal on a per acre basis. If more than 5 ton per acre is applied then lbs/acre would have to be adjusted.

Metal	mg/l	mg/kg	lbs/ton	lbs/acre	Annual limit lbs/ac
Arsenic		30.7	.06	.30	1.76
Cadmium		1.78	.0006	.003	1.67
Copper		119	.231	1.15	66
Lead		24.5	.005	.24	13.2
Mercury		.17	.0003	.002	.99
Selenium		<10			
Zinc		342	.68	3.42	125

yield goals, time and method of application including surface applications or incorporation, erosion control for erodible conditions, water flow management, separation distances from surface water, and depth to groundwater.

- Best Management Practices plans shall include certification to ensure that annual pollutant loading rates and cumulative pollutant rates are consistent with 40 CFR part 503.13, Tables 2 and 4 (enclosed).

Table 4 of §503.13 **ANNUAL POLLUTANT LOADING RATES**

Pollutant	Annual Pollutant Loading Rate From Wood Ash (Kg/ha/365 day period)
Arsenic	2.0
Cadmium	1.9
Chromium	150
Copper	75
Lead	15
Mercury	0.85
Molybdenum	0.90
Nickel	21
Selenium	5.0
Zinc	140

Table 2 of §503.13 **CUMULATIVE POLLUTANT LOADING RATE**

Pollutant	Cumulative Pollutant Loading Rates From Wood Ash Kg/Ha over site life
Arsenic	41
Cadmium	39
Chromium	3000
Copper	1500
Lead	300
Mercury	17
Molybdenum	18
Nickel	420
Selenium	100
Zinc	2800

ETC
www.etcmemphis.com
ENVIRONMENTAL TESTING & CONSULTING, INC.
2790 Whitten Road Memphis, Tennessee 38133 (901) 213-2400 Fax (901) 213-2440
"A Laboratory Management Partner"

02986
Craven County Wood Energy
Mr. Wade Tippett
201 Executive Parkway
Newbern , NC 28562

Project ID : Metals
Project Information : Semi-Annual "Attorney Client Privlege"

Report Date : 2/21/2014

Report Number : **14-050-0241**

REPORT OF ANALYSIS

Received : 2/19/2014

Lab No : **94475**
Sample ID : **Wood Fly Ash (WA-3)**

Matrix: **Solids**
Sampled: **2/18/2014 15:00**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Arsenic	**30.7**	mg/Kg	0.500	1	02/21/14 12:24	BKN	6010B
Total Cadmium	**1.78**	mg/Kg	0.100	1	02/20/14 16:12	BKN	6010B
Total Copper	**119**	mg/Kg	0.250	1	02/20/14 16:12	BKN	6010B
Total Lead	**24.5**	mg/Kg	0.300	1	02/20/14 16:12	BKN	6010B
Total Mercury	**0.171**	mg/Kg	0.0133	1	02/20/14 14:51	JRS	7471A
Total Molybdenum	**3.69**	mg/Kg	0.250	1	02/20/14 16:12	BKN	6010B
Total Nickel	**16.9**	mg/Kg	0.250	1	02/20/14 16:12	BKN	6010B
Total Selenium	<10.0	mg/Kg	10.0	10	02/20/14 15:44	BKN	6010B
Total Zinc	**342**	mg/Kg	0.500	1	02/20/14 16:12	BKN	6010B

Qualifiers/ Definitions

*	Outside QC limit	DF	Dilution Factor
MQL	Method Quantitation Limit		

BEST MANAGEMENT PRACTICES FOR WOOD ASH USED AS AN AGRICULTURAL SOIL AMENDMENT BY CRAVEN AG SERVICES INC.

1. When ash is produced in industrial combustion systems, the temperature of combustion, cleanliness of the fuel wood, the collection location and the process can have profound effects on the nature of the ash material. Therefore, wood ash composition can be highly variable. This makes testing the wood ash very important. Therefore random samples of the wood ash being used will be sampled before being applied on farm land. This will give us a dependable data source to use in developing a nutrient plan.

2. Calcium is the most abundant element in wood ash and gives the ash properties that are similar to agricultural lime. Therefore, the limiting factor for land application in usually the Calcium Carbonate Equivalence (CCE). Ash is also a good source of potassium, phosphorus, magnesium, and aluminum. In terms of commercial fertilizer, average wood ash would probably be about 0-1-3 (N-P-K). In addition to these macronutrients, wood ash is also a good source of many micronutrients that are needed in trace amounts for adequate plant growth. Wood ash contains few elements that pose environmental problems. Heavy metal concentrations are typically low and not in a highly extractable or available form. Therefore, a waste management plan will be developed that address all nutrients that are available as well any accumulative metal precautions that should be addressed.

3. Planning for wood ash application requires several considerations. Soil nutrient level and pH must be determined through proper soil testing.

* Soils will be sampled by the farmer or representatives of Craven Ag Services Inc.

* Waste Analysis will be taken monthly by Craven Ag Services, Inc to determine the nutrient and liming value of the ash.

* Annual metals testing will be done by the generator

* Using the waste analysis,a nutrient management plan will be developed by Craven Ag Services Inc for each farm.

4. Best Management Practices (BMP'S) for spreading wood ash shall be produced by Craven Ag Services Inc. They will include the following:

* Road maps showing the general location of the farm receiving the ash

* If any storage sites are set up on these farms they shall be located on the maps along with a BMP that covers all requirements set by the Department of Solid Waste. If it is to be a permanent storage site a permit will be gotten from the department of Solid Waste before storage begins.

*A nutrient plan shall be developed for each field and will include the following:

**Soil samples of each field

**Field maps of each field

**A Waste analysis of the ash to be applied

**The actual nutrient plan showing the tons of ash to be applied per acre to maintain the soil pH within the optimum range of the intended crop growth. Even though we cannot guarantee any nutrient value for the wood ash the plan will use the average wood ash analysis to show the nutrient value of the ash being applied to the field.

* Water protection practices will include:

**Erosion possibilities. If a field has a tolerance of less than 5 tons of soil erosion per year then it is considered as having no erosion problems. Wood ash will not be applied on any fields with a tolerance of more than 5 tons.

**Separation from surface waters...25 Ft buffer is required for storage and spreading.

** Separation from drainage ...5 ft buffer with no ash applied in any drainage structure

**Distance to groundwater..ash will not be applied on fields when the water table is less than 18" of the soil surface.

**Setbacks... 25 feet from property lines...100 feet from dwellings...50 feet from well.

5. Certification to ensure that annual pollutant loading rates and cumulative pollutant rates are consistent with 40 CFR part 503.13. This will be done be including a copy of Table 4 of 503.13 and Table 2 of 503.13. These tables (found in the MANAGEMENT OF WOODASH AS A SOIL AMENDMENT) will be accompanied by a copy of the latest NCDA waste analysis and the latest copy of the metals toxicity tests.

6. To control dust the wood ash will be spread at a moisture percentage of 35 to 40 percent.

7. Wood ash will always be covered during transport to prevent losses in route to the storage or application sites.

8. Litter spreaders will be used to spread the ash evenly over the fields. Spreaders will be calibrated to be sure they are applying the proper rates per acre.

9. Health considerations will be taken into account to prevent both particle inhalation and contact with the eyes and skin. (safety glasses, masks, etc.)

ımlicc)ounty FSA
ırm 2537 Tract 726

Wetland Determination Ider rs
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

	Acres	op	HEL	CRP
1	11.70		N	
2	11.37		N	
3	12.07		N	
4	11.28		N	
5	14.98		N	
6	15.20		N	
7	15.08		N	
8	14.99		N	
9	3.67		N	
10	3.40		N	
11	3.51		N	
12	2.99		N	

7T/A

1178 Tons

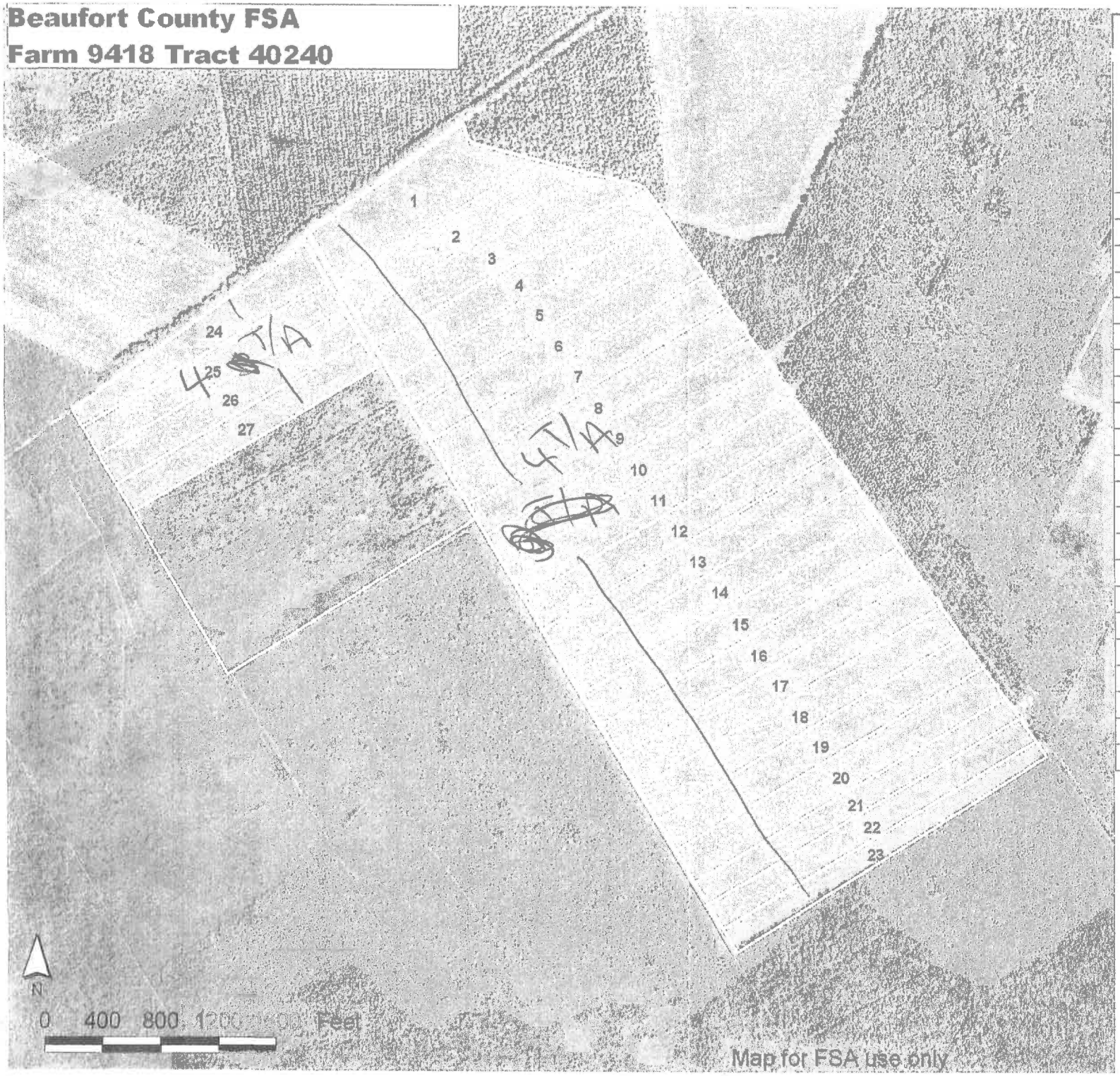
66 Trucks

18T/load

Tax Map H03 - 29

168.2 acres

Total Cropland Acres
120.2



	Acres	Crop	HEL	C.
1	13.75		N	
2	10.95		N	
3	11.71		N	
4	12.30		N	
5	12.07		N	
6	12.58		N	
7	12.54		N	
8	13.31		N	
9	12.79		N	
10	13.08		N	
11	13.06		N	
12	13.05		N	
13	13.54		N	
14	13.90		N	
15	13.67		N	
16	13.54		N	
17	13.78		N	
18	13.95		N	
19	13.96		N	
20	14.39	3	N	
21	9.77		N	
22	11.13		N	
23	8.98	6	N	
24	9.79		N	
25	9.92		N	
26	10.62	6	N	
27	9.78		N	

1325 Tons

74 Trucks @

18T/load

Total Cropland Acre
331.2

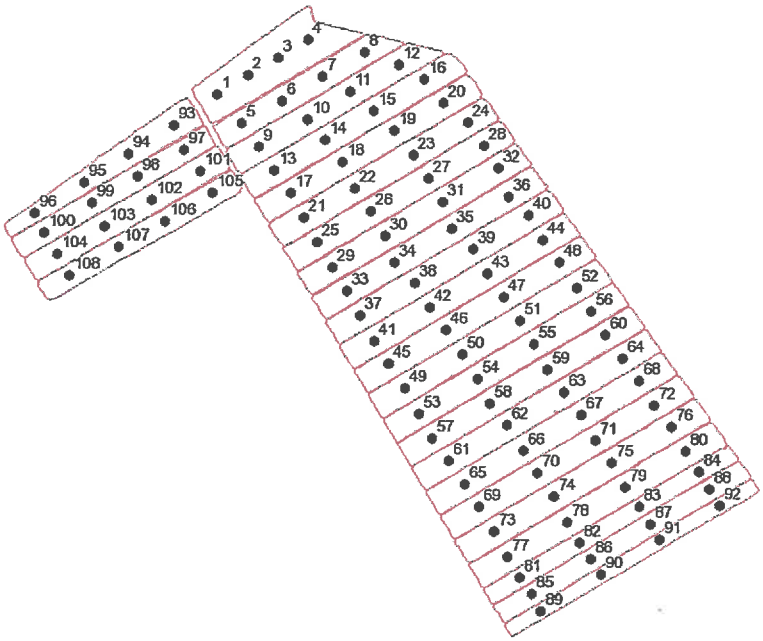
Field Sampler

State Index Values

Grower: Owen Peele
Farm: JWB Jodie Wells Block
Acres: 337.04

Field(s): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 23, 22, 24, 25, 26, 27

Sarah Arthur LLC
211 Cameron Shores
New Bern, NC 28562
PHONE: 252-229-3907
FAX: 888-670-1840



Element	Average	Range
P-I:	44	23 - 67
K-I:	50	25 - 81
Mg%:	19.7	12.0 - 32.0
Ca%:	49.2	38.0 - 58.0
pH:	5.24	4.90 - 5.80
Ac:	4.51	3.00 - 5.80
S-I:	53	30 - 80
Zn-I:	337	82 - 796
Zn-Al:	N/A	N/A
Mn-I:	74	29 - 186
Mn-Al:	N/A	N/A
Cu-I:	73	41 - 326
CEC:	16.4	9.7 - 28.2
HM%:	8.5	5.7 - 10.0

Field	No.	P-I	K-I	Mg (%)	Ca (%)	pH	Ac	S-I	Zn-I	Zn-Al	Mn-I	Mn-Al	Cu-I	CEC	HM (%)
1															
	1	67.0	51.0	18.0	57.0	5.5	3.3	47.0	339.0	n/a	74.0	n/a	104.0	14.1	6.4
	2	58.0	47.0	19.0	53.0	5.5	3.2	55.0	270.0	n/a	64.0	n/a	124.0	12.4	5.8
	3	57.0	52.0	18.0	50.0	5.4	3.9	67.0	204.0	n/a	64.0	n/a	101.0	12.9	6.6
	4	61.0	60.0	14.0	43.0	5.2	4.6	72.0	180.0	n/a	76.0	n/a	69.0	11.7	8.5
10															
	37	41.0	33.0	18.0	50.0	5.1	5.1	37.0	320.0	n/a	141.0	n/a	66.0	16.5	8.5
	38	34.0	48.0	18.0	50.0	5.3	5.0	54.0	266.0	n/a	77.0	n/a	53.0	15.9	8.2
	39	30.0	73.0	14.0	43.0	5.2	4.9	62.0	137.0	n/a	54.0	n/a	41.0	12.3	8.0
	40	39.0	81.0	16.0	43.0	5.4	4.1	65.0	87.0	n/a	43.0	n/a	50.0	10.9	6.6
11															
	41	46.0	33.0	17.0	52.0	5.2	4.7	46.0	274.0	n/a	115.0	n/a	59.0	15.8	7.7
	42	41.0	39.0	17.0	51.0	5.3	4.6	54.0	329.0	n/a	87.0	n/a	54.0	14.8	7.0
	43	36.0	65.0	15.0	45.0	5.3	4.9	67.0	154.0	n/a	56.0	n/a	42.0	13.0	7.2
	44	40.0	62.0	13.0	43.0	5.4	4.3	66.0	82.0	n/a	47.0	n/a	45.0	10.6	6.4
12															
	45	52.0	41.0	20.0	51.0	5.3	4.5	47.0	548.0	n/a	95.0	n/a	66.0	16.0	7.2
	46	43.0	42.0	19.0	48.0	5.3	4.4	48.0	409.0	n/a	72.0	n/a	65.0	14.3	8.0
	47	37.0	68.0	17.0	40.0	5.3	4.7	57.0	137.0	n/a	48.0	n/a	44.0	11.8	7.2
	48	51.0	76.0	17.0	41.0	5.4	4.0	80.0	91.0	n/a	41.0	n/a	61.0	10.3	6.6
13															
	49	55.0	41.0	22.0	48.0	5.2	4.8	56.0	500.0	n/a	71.0	n/a	51.0	16.9	8.2
	50	53.0	37.0	20.0	47.0	5.2	4.8	50.0	427.0	n/a	69.0	n/a	110.0	15.0	8.0
	51	41.0	71.0	21.0	45.0	5.4	4.0	62.0	184.0	n/a	37.0	n/a	46.0	12.6	7.0
	52	49.0	72.0	17.0	40.0	5.3	4.0	65.0	87.0	n/a	34.0	n/a	49.0	10.2	6.6

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SAMPLE DATE: 2012-11-10
ISSUED: 6:32pm EST Feb25, 2013
A Product of Agfleet Version 3.00

Field Sampler

State Index Values

Grower: Owen Peele
Farm: JWB Jodie Wells Block
Acres: 337.04

Field(s): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 23, 22, 24, 25, 26, 27

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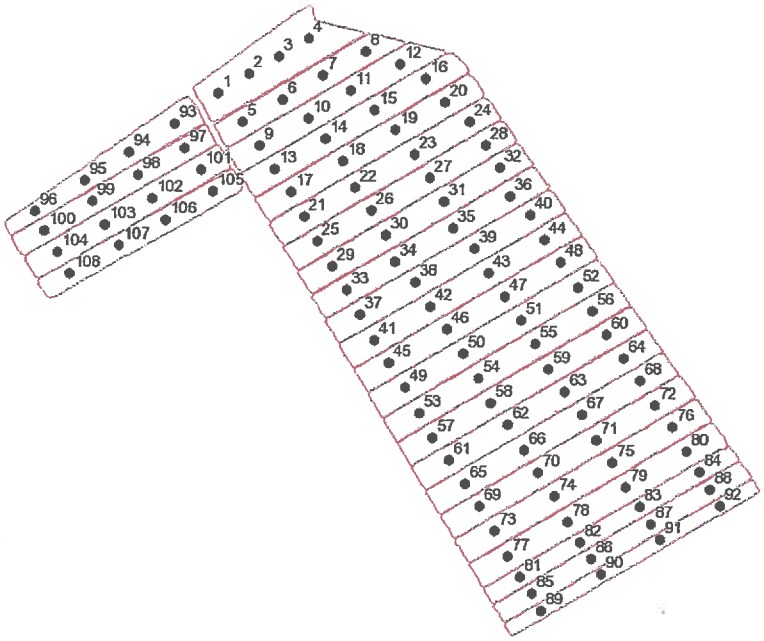

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Cu-I:	73	41 - 326
CEC:	16.4	9.7 - 28.2
HM%:	8.5	5.7 - 10.0

Field	No.	P-I	K-I	Mg (%)	Ca (%)	pH	Ac	S-I	Zn-I	Zn-Al	Mn-I	Mn-Al	Cu-I	CEC	HM (%)
14															
	53	39.0	49.0	24.0	50.0	5.3	4.8	50.0	586.0	n/a	87.0	n/a	45.0	19.6	8.5
	54	53.0	46.0	19.0	47.0	5.2	4.8	50.0	288.0	n/a	80.0	n/a	50.0	14.5	8.5
	55	38.0	62.0	19.0	45.0	5.3	4.3	57.0	152.0	n/a	38.0	n/a	183.0	12.8	7.5
	56	47.0	65.0	19.0	43.0	5.4	3.6	55.0	109.0	n/a	32.0	n/a	74.0	10.4	7.2
15															
	57	39.0	48.0	22.0	51.0	5.1	5.1	57.0	559.0	n/a	116.0	n/a	68.0	19.7	9.2
	58	50.0	50.0	18.0	50.0	5.2	4.2	51.0	310.0	n/a	80.0	n/a	65.0	14.0	7.7
	59	43.0	75.0	20.0	48.0	5.4	4.0	57.0	195.0	n/a	42.0	n/a	96.0	13.7	7.7
	60	46.0	81.0	21.0	47.0	5.3	3.5	62.0	142.0	n/a	33.0	n/a	65.0	11.9	8.0
16															
	61	40.0	51.0	23.0	53.0	5.1	4.8	49.0	575.0	n/a	109.0	n/a	49.0	20.6	10.0
	62	45.0	38.0	18.0	53.0	5.2	4.1	53.0	361.0	n/a	62.0	n/a	326.0	14.7	7.7
	63	34.0	65.0	16.0	47.0	5.2	4.1	60.0	158.0	n/a	38.0	n/a	69.0	12.2	8.5
	64	42.0	75.0	18.0	47.0	5.2	3.8	59.0	113.0	n/a	35.0	n/a	57.0	12.0	8.0
17															
	65	36.0	44.0	25.0	54.0	5.1	4.5	36.0	543.0	n/a	109.0	n/a	57.0	23.0	10.0
	66	49.0	35.0	18.0	51.0	5.0	4.5	44.0	331.0	n/a	75.0	n/a	68.0	14.7	8.2
	67	44.0	51.0	16.0	46.0	5.1	4.5	53.0	182.0	n/a	38.0	n/a	48.0	12.6	8.9
	68	42.0	55.0	16.0	45.0	5.1	4.2	53.0	142.0	n/a	29.0	n/a	49.0	11.2	8.0
18															
	69	36.0	41.0	25.0	53.0	5.2	4.7	37.0	535.0	n/a	96.0	n/a	57.0	21.8	10.0
	70	57.0	35.0	18.0	50.0	5.1	4.7	43.0	457.0	n/a	78.0	n/a	62.0	15.4	8.5
	71	48.0	39.0	18.0	48.0	5.1	4.0	54.0	362.0	n/a	40.0	n/a	60.0	12.1	8.9
	72	49.0	57.0	16.0	43.0	5.0	4.5	60.0	170.0	n/a	36.0	n/a	49.0	11.6	9.2

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SAMPLE DATE: 2012-11-10
ISSUED: 6:32pm EST Feb25, 2013
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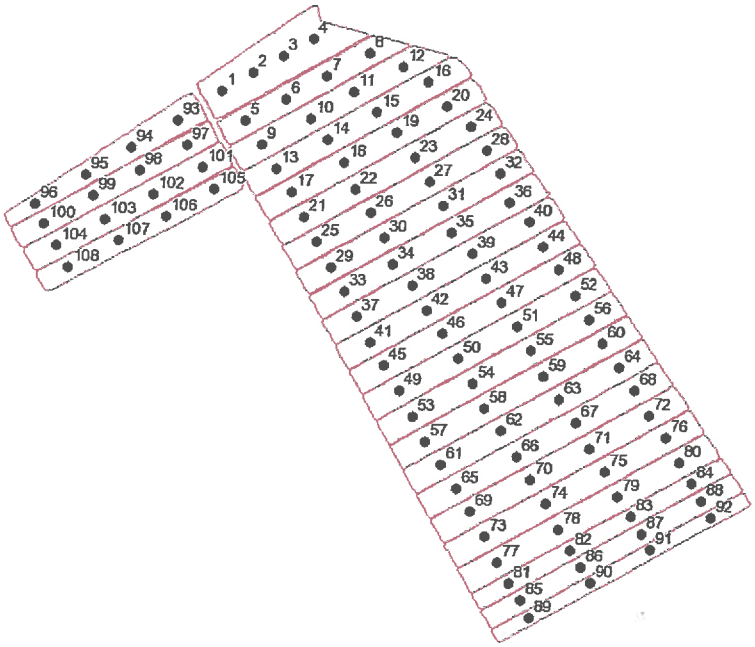
Field Sampler

State Index Values

Grower: Owen Peele
Farm: JWB Jodie Wells Block
Acres: 337.04

Field(s): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 23, 22, 24, 25, 26, 27

Sarah Arthur LLC
211 Cameron Shores
New Bern, NC 28562
PHONE: 252-229-3907
FAX: 888-670-1840



Element	Average	Range
P-I:	44	23 - 67
K-I:	50	25 - 81
Mg%:	19.7	12.0 - 32.0
Ca%:	49.2	38.0 - 58.0
pH:	5.24	4.90 - 5.80
Ac:	4.51	3.00 - 5.80
S-I:	53	30 - 80
Zn-I:	337	82 - 796
Zn-AI:	N/A	N/A
Mn-I:	74	29 - 186
Mn-AI:	N/A	N/A
Cu-I:	73	41 - 326
CEC:	16.4	9.7 - 28.2
HM%:	8.5	5.7 - 10.0

Field	No.	P-I	K-I	Mg (%)	Ca (%)	pH	Ac	S-I	Zn-I	Zn-AI	Mn-I	Mn-AI	Cu-I	CEC	HM (%)
19															
	73	34.0	37.0	25.0	52.0	5.1	5.0	34.0	482.0	n/a	145.0	n/a	73.0	22.9	10.0
	74	58.0	42.0	19.0	50.0	5.1	4.6	45.0	464.0	n/a	69.0	n/a	58.0	15.7	9.2
	75	41.0	58.0	17.0	49.0	5.3	4.3	58.0	184.0	n/a	41.0	n/a	52.0	13.3	8.9
	76	37.0	49.0	26.0	51.0	5.0	5.8	52.0	699.0	n/a	172.0	n/a	87.0	25.9	10.0
2															
	5	47.0	46.0	19.0	54.0	5.4	4.0	64.0	335.0	n/a	72.0	n/a	80.0	15.4	8.2
	6	48.0	52.0	15.0	49.0	5.2	4.4	60.0	272.0	n/a	79.0	n/a	69.0	12.9	7.7
	7	44.0	60.0	17.0	49.0	5.3	4.1	71.0	194.0	n/a	64.0	n/a	65.0	12.7	8.0
	8	50.0	75.0	16.0	44.0	5.4	3.7	71.0	110.0	n/a	50.0	n/a	58.0	10.2	7.5
20															
	77	50.0	44.0	22.0	54.0	5.2	4.6	53.0	706.0	n/a	95.0	n/a	87.0	19.8	10.0
	78	51.0	39.0	21.0	53.0	5.1	5.0	58.0	715.0	n/a	84.0	n/a	90.0	19.9	10.0
	79	57.0	45.0	16.0	49.0	5.0	5.2	49.0	497.0	n/a	77.0	n/a	87.0	15.4	10.0
	80	44.0	64.0	13.0	47.0	5.1	4.5	59.0	197.0	n/a	49.0	n/a	70.0	12.1	10.0
21															
	81	40.0	47.0	28.0	51.0	5.1	5.4	55.0	595.0	n/a	148.0	n/a	96.0	27.1	10.0
	82	52.0	39.0	22.0	56.0	5.2	4.5	51.0	601.0	n/a	123.0	n/a	111.0	21.4	10.0
	83	57.0	45.0	17.0	53.0	5.0	5.0	55.0	507.0	n/a	103.0	n/a	91.0	17.1	10.0
	84	65.0	56.0	12.0	45.0	5.0	5.2	56.0	213.0	n/a	74.0	n/a	76.0	12.7	10.0
22															
	85	38.0	41.0	26.0	50.0	4.9	5.8	52.0	540.0	n/a	186.0	n/a	73.0	25.0	10.0
	86	46.0	37.0	22.0	52.0	5.0	5.6	56.0	580.0	n/a	171.0	n/a	111.0	22.1	10.0
	87	62.0	39.0	17.0	51.0	5.1	5.0	53.0	399.0	n/a	100.0	n/a	69.0	16.5	10.0
	88	51.0	42.0	16.0	54.0	5.2	4.4	55.0	287.0	n/a	80.0	n/a	59.0	14.9	9.6

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Field Sampler

State Index Values

Grower: Owen Peele
Farm: JWB Jodie Wells Block
Acres: 337.04

Field(s): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 23, 22, 24, 25, 26, 27

Sarah Arthur LLC
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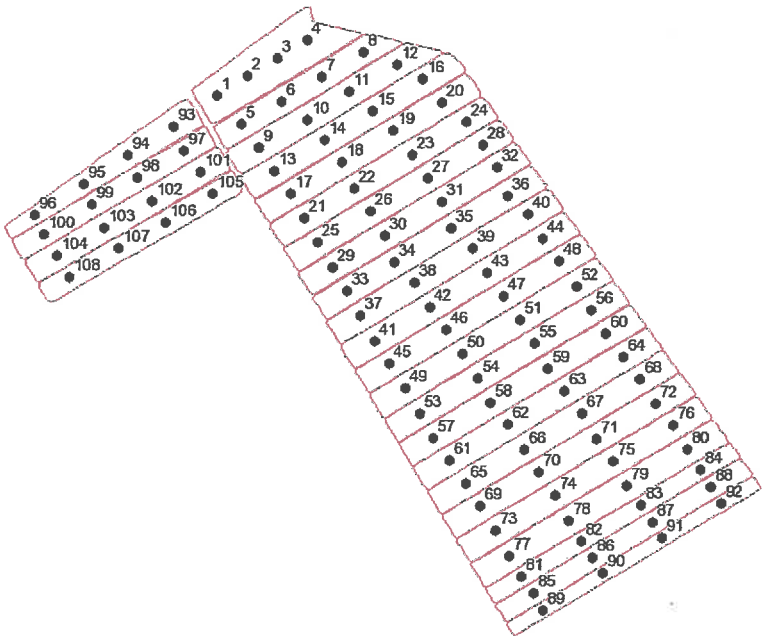

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Zn-I:	337	82 - 796
Zn-Al:	N/A	N/A
Mn-I:	74	29 - 186
Mn-Al:	N/A	N/A
Cu-I:	73	41 - 326
CEC:	16.4	9.7 - 28.2
HM%:	8.5	5.7 - 10.0

Field	No.	P-I	K-I	Mg (%)	Ca (%)	pH	Ac	S-I	Zn-I	Zn-Al	Mn-I	Mn-Al	Cu-I	CEC	HM (%)
8															
	29	46.0	37.0	18.0	51.0	5.3	4.9	42.0	389.0	n/a	81.0	n/a	90.0	16.2	8.0
	30	36.0	49.0	19.0	50.0	5.3	4.9	54.0	362.0	n/a	66.0	n/a	85.0	16.5	8.2
	31	35.0	57.0	16.0	47.0	5.2	4.7	57.0	209.0	n/a	50.0	n/a	67.0	13.2	8.0
	32	36.0	54.0	15.0	46.0	5.3	4.0	59.0	98.0	n/a	38.0	n/a	66.0	10.8	6.4
9															
	33	43.0	35.0	18.0	55.0	5.3	4.3	47.0	398.0	n/a	96.0	n/a	80.0	16.1	7.7
	34	49.0	45.0	18.0	52.0	5.3	4.6	52.0	379.0	n/a	71.0	n/a	78.0	15.9	8.5
	35	33.0	74.0	16.0	49.0	5.4	4.5	57.0	200.0	n/a	59.0	n/a	56.0	13.9	7.5
	36	37.0	67.0	14.0	52.0	5.6	3.9	54.0	98.0	n/a	45.0	n/a	53.0	12.3	5.7

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ISSUED: 6:32pm EST Feb25, 2013
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Pamlico County FSA
Farm 2537 Tract 726

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland Identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

Field	Acreage	Crop	HEL	CRP
1	11.70		N	
2	11.37		N	
3	12.07		N	
4	11.28		N	
5	14.98		N	
6	15.20		N	
7	15.08		N	
8	14.99		N	
9	3.67		N	
10	3.40		N	
11	3.51		N	
12	2.99		N	

Soil test
Send to
NCDA
Dan
Reale
Cowell
Loop

Total Cropland Acres
120.2

NCDA&CS Agronomic Division Phone: (919) 733-2655 Website: www.ncagr.gov/agronomi/ Report No. FY14-SL033051

Predictive

Soil Report

Mehlich-3 Extraction

Client: Forrest Farm Supply-Chuck
502 Main St.
Bayboro, NC 28515

Sampled County : Pamlico

Advisor:

Sampled: Received: 04/10/2014 Completed: 04/22/2014 Farm: CL

Links to Helpful Information

Sample ID: CL01

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Soybean	0.7	0	0	30	0	0	0	0	0	0	Note: 3
2 - Soybean	0.0	0	0	30	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: Soil Class: Mineral-Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
4.95	0.85	7.7	58	3.2	5.2	211	56	45	9	62	37	40	40	83	103	155	0.1	1		

Sample ID: CL01A

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Soybean	0.5	0	0	50	0	0	0	0	0	0	Note: 3
2 - Soybean	0.0	0	0	50	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: Soil Class: Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
1.80	1.09	9.0	80	1.8	5.8	217	45	69	8	48	43	36	36	485	485	600	0.1	1		

Sample ID: CL02

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Soybean	1.1	0	0	30	0	0	0	0	0	0	Note: 3
2 - Soybean	0.0	0	0	30	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: Soil Class: Mineral-Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
4.81	0.94	7.0	49	3.6	5.0	203	56	36	9	67	42	43	43	147	184	384	0.1	1		

North Carolina
Tobacco Trust Fund Commission

Reprogramming of the laboratory-information-management system that makes this report possible is being funded through a grant from the North Carolina Tobacco Trust Fund Commission.

Thank you for using agronomic services to manage nutrients and safeguard environmental quality.
- *Steve Troxler, Commissioner of Agriculture*

Sample ID: CL02A

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Soybean	1.4	0	0	40	0	0	0	0	0	0	Note: 3
2 - Soybean	0.0	0	0	40	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO3-N
3.01	0.97	7.0	62	2.6	5.3	174	52	48	10	55	43	36	36	95	95	455	0.1	1		

Sample ID: CL03

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Soybean	1.5	0	0	50	25	0	0	0	0	0	Note: 3
2 - Soybean	0.0	0	0	50	$	0	0	0	0	0	Note: 3 Note: $

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO3-N in mg/dm³]: **Soil Class:** Mineral-Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO3-N
4.20	0.97	6.3	39	3.9	4.8	240	44	29	6	62	33	37	37	96	120	311	0.1	2		

Sample ID: CL03A

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Soybean	2.1	0	0	40	25	0	0	0	0	0	Note: 3
2 - Soybean	0.0	0	0	40	$	0	0	0	0	0	Note: 3 Note: $

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO3-N
2.76	0.95	5.8	43	3.3	4.9	161	49	34	5	68	35	31	31	92	92	378	0.1	2		

Sample ID: CLO4

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Soybean	1.4	0	0	40	25	0	0	0	0	0	Note: 3
2 - Soybean	0.0	0	0	40	$	0	0	0	0	0	Note: 3 Note: $

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO3-N in mg/dm³]: **Soil Class:** Mineral-Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO3-N
3.87	0.97	6.8	42	3.9	4.9	244	51	32	7	59	40	42	42	87	109	288	0.1	1		

Sample ID: CL04A

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Soybean	2.2	0	0	30	25	0	0	0	0	0	Note: 3
2 - Soybean	0.0	0	0	30	$	0	0	0	0	0	Note: 3 Note: $

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO_3-N
3.19	0.91	6.1	44	3.4	4.9	137	58	35	5	71	40	34	34	71	71	241	0.1	2		

Sample ID: CLO5

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Soybean	1.4	0	0	50	25	0	0	0	0	0	Note: 3
2 - Soybean	0.0	0	0	50	$	0	0	0	0	0	Note: 3 Note: $

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral-Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO_3-N
4.20	0.94	6.1	41	3.6	4.8	173	45	31	6	63	41	42	42	72	90	150	0.1	2		

Sample ID: CL05A

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Soybean	1.7	0	0	60	25	0	0	0	0	0	Note: 3
2 - Soybean	0.0	0	0	60	$	0	0	0	0	0	Note: 3 Note: $

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO_3-N
2.08	0.97	5.4	49	2.7	4.9	93	37	38	8	59	38	33	33	62	62	246	0.1	2		

Sample ID: CL06

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Soybean	1.7	0	0	70	0	0	0	0	0	0	Note: 3
2 - Soybean	0.0	0	0	70	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO_3-N
3.10	0.96	6.8	58	2.9	5.2	116	35	45	10	53	42	35	35	65	65	153	0.1	1		

Sample ID: CL06A

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Soybean	1.3	0	0	40	0	0	0	0	0	0	Note: 3
2 - Soybean	0.0	0	0	40	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO_3-N
2.22	0.95	6.4	63	2.4	5.3	79	48	50	9	56	39	33	33	73	73	182	0.1	2		

Sample ID: CL07

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Soybean	1.5	0	0	50	0	0	0	0	0	0	Note: 3
2 - Soybean	0.0	0	0	50	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO_3-N
2.29	0.96	5.7	56	2.5	5.1	65	47	43	9	51	43	36	36	64	64	133	0.1	2		

Sample ID: CL07A

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Soybean	1.1	0	20	50	0	0	0	0	0	0	Note: 3
2 - Soybean	0.0	0	20	50	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO_3-N
1.25	1.01	5.6	65	2.0	5.3	55	44	52	9	43	40	34	34	63	63	146	0.1	2		

Sample ID: CL08

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Soybean	1.6	0	10	30	0	0	0	0	0	0	Note: 3
2 - Soybean	0.0	0	10	30	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO_3-N
1.94	0.96	6.3	59	2.6	5.1	56	60	45	9	51	36	32	32	71	71	119	0.1	2		

Sample ID: CL08A

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Soybean	1.3	0	30	80	25	0	0	0	0	0	Note: 3
2 - Soybean	0.0	0	30	80	$	0	0	0	0	0	Note: 3 Note: $

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO_3-N
0.97	1.02	5.3	58	2.2	5.1	46	31	47	9	40	47	38	38	66	66	129	0.1	2		

Sample ID: CL09

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Soybean	1.1	0	60	80	25	0	0	0	0	0	Note: 3
2 - Soybean	0.0	0	60	80	$	0	0	0	0	0	Note: 3 Note: $

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO_3-N
0.81	1.05	4.8	58	2.0	5.2	31	31	46	9	44	42	35	35	53	53	83	0.1	2		

Sample ID: CL09A

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Soybean	1.3	0	80	80	0	0	0	0	0	0	Note: 3
2 - Soybean	0.0	0	80	80	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO_3-N
0.56	1.05	4.6	55	2.1	5.0	26	30	41	11	36	42	35	35	51	51	88	0.1	2		

Sample ID: CL10

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Soybean	1.3	0	50	70	25	0	0	0	0	0	Note: 3
2 - Soybean	0.0	0	50	70	$	0	0	0	0	0	Note: 3 Note: $

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO_3-N
0.92	1.04	4.6	55	2.1	5.1	37	34	43	8	41	40	34	34	61	61	87	0.1	2		

Sample ID: CL10A

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Soybean	1.4	0	70	80	0	0	0	0	0	0	Note: 3
2 - Soybean	0.0	0	70	80	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.66	1.04	4.6	52	2.2	4.9	27	30	38	10	33	45	37	37	52	52	86	0.1	2		

Sample ID: CL11

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Soybean	2.2	0	0	0	25	0	0	0	0	0	Note: 3
2 - Soybean	0.0	0	0	0	$	0	0	0	0	0	Note: 3 Note: $

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
3.28	1.01	5.5	40	3.3	4.8	310	87	28	5	64	49	39	39	48	48	90	0.1	2		

Sample ID: CL12

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Soybean	1.5	0	0	10	25	0	0	0	0	0	Note: 3
2 - Soybean	0.0	0	0	10	$	0	0	0	0	0	Note: 3 Note: $

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
3.10	0.95	6.8	62	2.6	5.2	315	72	52	5	71	45	37	37	72	72	158	0.1	1		

Sample ID: CL13

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Soybean	1.2	0	0	0	0	0	0	0	0	0	Note: 3
2 - Soybean	0.0	0	0	0	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
1.55	1.05	7.1	68	2.3	5.3	262	84	54	8	49	45	37	37	74	74	121	0.1	1		

Sample ID: CL14

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Soybean	0.9	0	0	20	0	0	0	0	0	0	Note: 3
2 - Soybean	0.0	0	0	20	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
1.25	1.07	7.6	74	2.0	5.5	221	67	61	9	50	46	38	38	82	82	127	0.1	1		

Sample ID: CL15

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Soybean	0.3	0	60	80	0	0	0	0	0	0	Note: 3
2 - Soybean	0.0	0	60	80	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.46	1.13	6.4	84	1.0	5.7	31	27	72	10	36	32	29	29	39	39	30	0.1	2		

Sample ID: CL16

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information	
		Nutrients (lb/acre)										
1 - Soybean	1.4	0	50	70	0	0	0	0	2	0	Note: 3	
2 - Soybean	0.0	0	50	70	0	0	0	0	$	0	Note: 3	Note: $

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.51	1.07	4.9	57	2.1	4.8	37	33	43	11	43	30	28	28	34	34	15	0.1	2		

Sample ID: CL17

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Soybean	1.1	0	0	40	0	0	0	0	0	0	Note: 3
2 - Soybean	0.0	0	0	40	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.56	1.11	5.5	66	1.8	5.1	86	49	52	10	33	49	39	39	153	153	52	0.1	2		

Sample ID: CL18

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Soybean	1.0	0	0	40	0	0	0	0	0	0	Note: 3
2 - Soybean	0.0	0	0	40	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO_3-N
0.51	1.09	5.6	68	1.8	5.2	105	49	51	12	34	53	42	42	146	146	46	0.1	2		

Sample ID: CL19

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Soybean	1.0	0	0	40	0	0	0	0	0	0	Note: 3
2 - Soybean	0.0	0	0	40	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO_3-N
0.51	1.10	5.6	70	1.7	5.2	77	48	52	13	32	52	41	41	62	62	31	0.1	2		

Sample ID: CL20

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Soybean	1.1	0	20	50	0	0	0	0	0	0	Note: 3
2 - Soybean	0.0	0	20	50	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO_3-N
0.66	1.10	6.3	71	1.8	5.1	51	42	53	14	38	50	40	40	54	54	37	0.2	3		

Sample ID: CL21

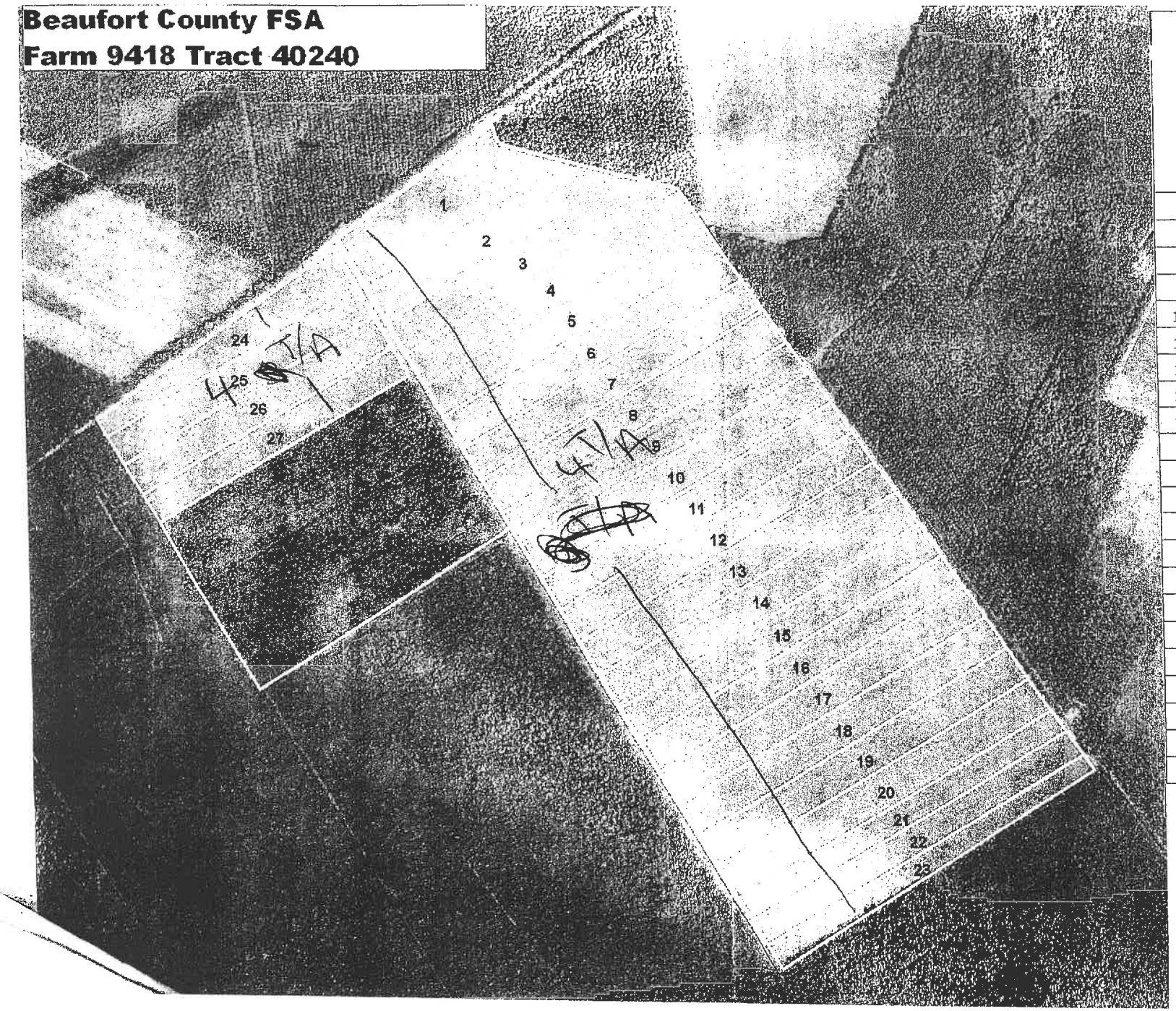
Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Soybean	0.5	0	20	70	0	0	0	0	0	0	Note: 3
2 - Soybean	0.0	0	20	70	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO_3-N
0.60	1.09	7.4	84	1.2	5.6	51	34	69	13	56	53	42	42	105	105	116	0.4	5		

Owen Peele



	Acres	Group	HEL	C.
1	13.25		N	
2	10.95		N	
3	11.71		N	
4	12.30		N	
5	12.07		N	
6	12.58		N	
7	12.54		N	
8	13.31		N	
9	12.79		N	
10	13.08		N	
11	13.06		N	
12	13.05		N	
13	13.54		N	
14	13.90		N	
15	13.67		N	
16	13.54		N	
17	13.78		N	
18	13.95		N	
19	13.96		N	
20	14.39	3	N	
21	9.77		N	
22	11.13		N	
23	8.98	6	N	
24	9.79		N	
25	9.92		N	
26	10.62	6	N	
27	9.78		N	

1325 Tons

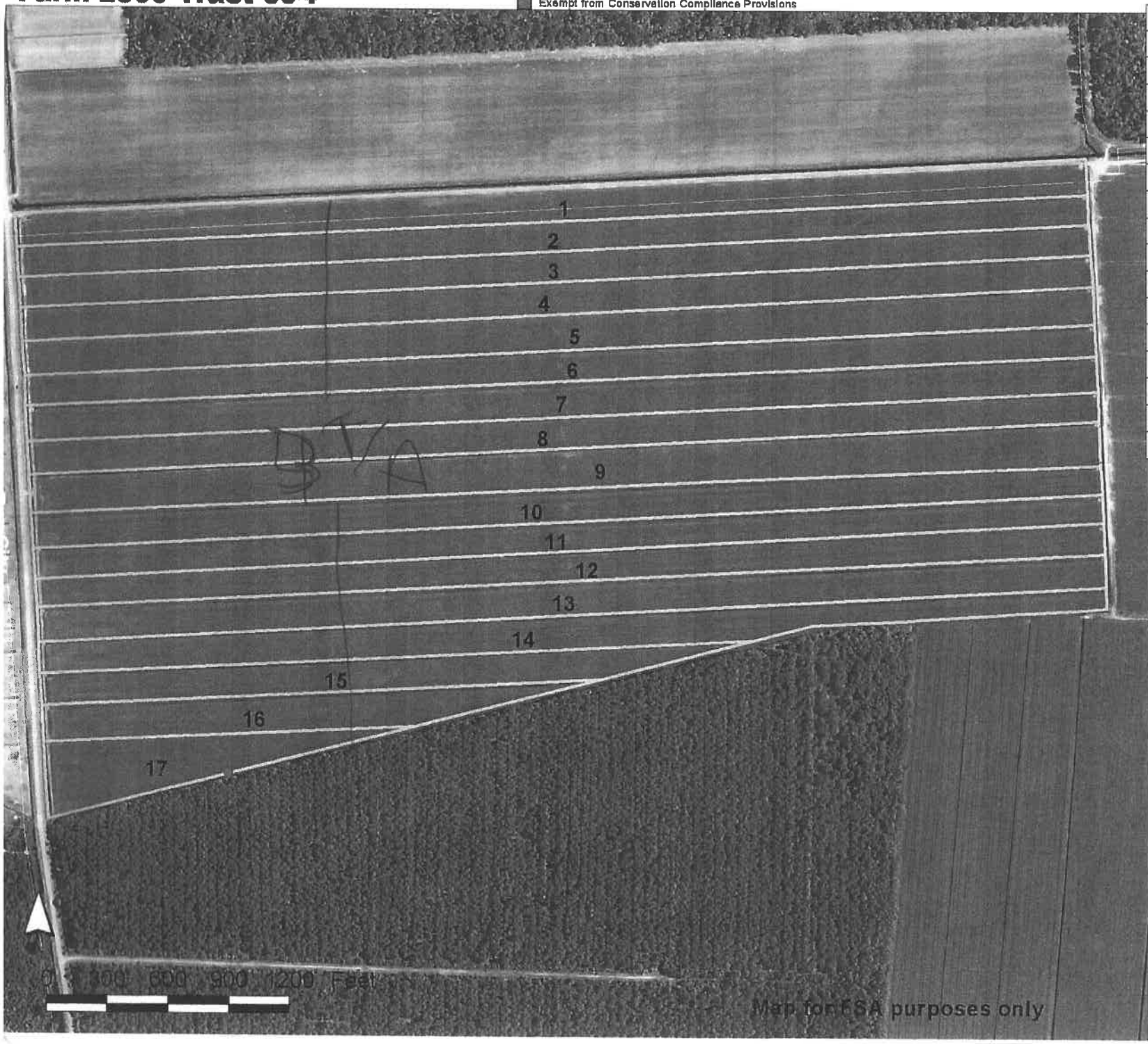
74 Trucks @

18T/load

Pamlico County FSA
Farm 2860 Tract 594

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.



Fld	Acres	Crop	HEL	CRP
1	20.66		N	
2	18.02		N	
3	18.18		N	
4	19.57		N	
5	21.38		N	
6	18.39		N	
7	21.06		N	
8	18.56		N	
9	23.88		N	
10	19.43		N	
11	17.63		N	
12	17.68		N	
13	20.24		N	
14	17.76		N	
15	11.13		N	
16	9.61		N	
17	7.94		N	

3 T/A

Bay City
301 acres
Do last
Below Pr. 30 M
cl Ton/ac = 60 bots

Total Cropland Acres
301.1

Division
Phone: (919) 733-2655
Website: www.ncagr.gov/agronomi/

Predictive

Soil Report

Mehlich-3 Extraction

Client: Owen (OWP) Peele
282 Peele Rd.
Aurora, NC 278069603

Sampled County : Pamlico

Report No. FY14-SL025067

Advisor: Sarah Arthur, LLC
3780 Hwy 58 N
Trenton, NC 28585

Sampled: 11/23/2013 Received: 11/27/2013 Completed: 01/30/2014 Farm: 300

Links to Helpful Information

Sample ID: 61

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B
		Nutrients (lb/acre)								
1 - Corn, grain	0.0	120 - 160	0	60	0	0	0	0	0	0
2 - SG/Soybean (DC)	0.0	80-100	10	90	0	0	0	0	0	0

More Information
Note: 3
Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]:

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
9.21	0.71	18.4	81	3.4	5.6	58	40	68	12	48	63	61	54	258	428	56	0.3	2		

Soil Class: Organic

Sample ID: 62

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B
		Nutrients (lb/acre)								
1 - Corn, grain	0.0	120 - 160	0	60	0	0	0	0	0	0
2 - SG/Soybean (DC)	0.0	80-100	0	100	0	0	0	0	0	0

More Information
Note: 3
Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]:

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.63	19.0	81	3.6	5.4	66	39	66	14	51	62	63	56	305	506	56	0.4	2		

Soil Class: Organic

Sample ID: 63

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B
		Nutrients (lb/acre)								
1 - Corn, grain	0.0	120 - 160	0	60	0	0	0	0	0	0
2 - SG/Soybean (DC)	0.0	80-100	10	90	0	0	0	0	0	0

More Information
Note: 3
Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]:

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
8.86	0.75	14.3	80	2.9	5.5	56	41	70	8	45	44	51	44	235	390	51	0.3	2		

Soil Class: Organic

3 J 4

North Carolina
Tobacco Trust Fund Commission

Reprogramming of the laboratory-information-management system that makes this report possible is being funded through a grant from the North Carolina Tobacco Trust Fund Commission.

Thank you for using agronomic services to manage nutrients and safeguard environmental quality.
- *Steve Troxler, Commissioner of Agriculture*

Owen (OWP) Peele

Report No. FY14-SL025067

Sample ID: 64

Lime History:

Recommendations:

Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B
		Nutrients (lb/acre)								
1 - Corn, grain	0.0	120 - 160	0	30	0	0	0	0	0	0
2 - SG/Soybean (DC)	0.0	80-100	20	50	0	0	0	0	0	0

More Information: Note: 3, Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: Soil Class: Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.71	13.1	74	3.4	5.2	51	55	65	8	47	41	53	46	168	279	56	0.1	1		

Sample ID: 65

Lime History:

Recommendations:

Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B
		Nutrients (lb/acre)								
1 - Corn, grain	0.0	120 - 160	10	40	0	0	0	0	0	0
2 - SG/Soybean (DC)	0.0	80-100	50	50	0	0	0	0	0	0

More Information: Note: 3, Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: Soil Class: Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.72	10.1	61	4.0	4.9	39	54	49	9	56	49	62	55	133	221	42	0.2	2		

Sample ID: 66

Lime History:

Recommendations:

Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B
		Nutrients (lb/acre)								
1 - Corn, grain	0.0	120 - 160	0	20	0	0	0	0	0	0
2 - SG/Soybean (DC)	0.0	80-100	30	20	0	0	0	0	0	0

More Information: Note: 3, Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: Soil Class: Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.71	9.4	60	3.7	5.0	47	67	48	9	54	53	64	57	125	208	48	0.2	2		

Sample ID: 67

Lime History:

Recommendations:

Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B
		Nutrients (lb/acre)								
1 - Corn, grain	0.3	120 - 160	0	30	0	0	0	0	0	0
2 - SG/Soybean (DC)	0.0	80-100	30	50	0	0	0	0	0	0

More Information: Note: 3, Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: Soil Class: Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
8.86	0.79	9.8	51	4.8	4.9	45	55	40	8	53	48	61	54	123	204	51	0.2	2		

Owen (OWP) Peele

Report No. FY14-SL025067

Sample ID: 68

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B
		Nutrients (lb/acre)								
1 - Corn, grain	0.0	120 - 160	0	30	0	0	0	0	0	0
2 - SG/Soybean (DC)	0.0	80-100	30	40	0	0	0	0	0	0

More Information: Note: 3, Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: Soil Class: Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.70	8.9	57	3.8	5.0	48	58	45	9	55	50	62	55	145	241	54	0.2	2		

Sample ID: 69

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B
		Nutrients (lb/acre)								
1 - Corn, grain	0.0	120 - 160	0	30	0	0	0	0	0	0
2 - SG/Soybean (DC)	0.0	80-100	10	40	0	0	0	0	0	0

More Information: Note: 3, Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: Soil Class: Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.74	8.8	58	3.7	5.0	61	56	46	10	48	50	62	55	145	241	60	0.2	2		

Sample ID: 70

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B
		Nutrients (lb/acre)								
1 - Corn, grain	0.0	120 - 160	0	20	0	0	0	0	0	0
2 - SG/Soybean (DC)	0.0	80-100	0	10	0	0	0	0	0	0

More Information: Note: 3, Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: Soil Class: Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
8.86	0.58	31.9	96	1.2	6.3	76	68	85	10	55	76	59	52	417	692	151	0.3	1		

Sample ID: 71

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B
		Nutrients (lb/acre)								
1 - Corn, grain	0.0	120 - 160	0	60	0	0	0	0	0	0
2 - SG/Soybean (DC)	0.0	80-100	0	90	0	0	0	0	0	0

More Information: Note: 3, Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: Soil Class: Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.63	22.1	86	3.1	5.6	75	41	72	13	40	63	61	54	379	629	72	0.3	1		

Sample ID: 72

Lime History:

Recommendations:

Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B
		Nutrients (lb/acre)								
1 - Corn, grain	0.0	120 - 160	0	40	0	0	0	0	0	0
2 - SG/Soybean (DC)	0.0	80-100	20	70	0	0	0	0	0	0

More Information: Note: 3, Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: Soil Class: Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO_3-N
9.59	0.70	15.7	80	3.2	5.4	52	48	69	9	42	45	54	47	274	455	60	0.2	1		

Sample ID: 73

Lime History:

Recommendations:

Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B
		Nutrients (lb/acre)								
1 - Corn, grain	0.0	120 - 160	10	40	0	0	0	0	0	0
2 - SG/Soybean (DC)	0.0	80-100	40	60	0	0	0	0	0	0

More Information: Note: 3, Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: Soil Class: Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO_3-N
9.59	0.68	14.7	76	3.6	5.2	40	52	67	7	45	37	52	45	229	380	68	0.2	1		

Sample ID: 74

Lime History:

Recommendations:

Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B
		Nutrients (lb/acre)								
1 - Corn, grain	0.0	120 - 160	20	30	0	0	0	0	0	0
2 - SG/Soybean (DC)	0.0	80-100	50	50	0	0	0	0	0	0

More Information: Note: 3, Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: Soil Class: Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.66	11.3	65	4.0	5.1	36	55	52	10	52	58	65	58	154	256	52	0.2	2		

Sample ID: 75

Lime History:

Recommendations:

Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B
		Nutrients (lb/acre)								
1 - Corn, grain	0.0	120 - 160	10	20	0	0	0	0	0	0
2 - SG/Soybean (DC)	0.0	80-100	50	30	0	0	0	0	0	0

More Information: Note: 3, Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: Soil Class: Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.69	11.0	69	3.4	5.2	38	62	54	12	52	47	57	50	293	486	49	0.2	2		

Owen (OWP) Peele
Phone: (919) 733-2655
Website: www.ncagr.gov/agronomi/

Report No. FY14-SL025067

Sample ID: 76

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B
		Nutrients (lb/acre)								
1 - Corn, grain	0.0	120 - 160	0	40	0	0	0	0	0	0
2 - SG/Soybean (DC)	0.0	80-100	30	60	0	0	0	0	0	0

More Information: Note: 3, Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: Soil Class: Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.67	10.8	62	4.0	4.9	49	51	48	12	55	57	66	59	183	304	53	0.2	2		

Sample ID: 77

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B
		Nutrients (lb/acre)								
1 - Corn, grain	0.0	120 - 160	0	40	0	0	0	0	0	0
2 - SG/Soybean (DC)	0.0	80-100	0	70	0	0	0	0	0	0

More Information: Note: 3, Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: Soil Class: Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
8.24	0.76	10.2	65	3.6	5.0	62	48	51	12	51	57	66	59	190	315	62	0.2	2		

Sample ID: 78

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B
		Nutrients (lb/acre)								
1 - Corn, grain	0.0	120 - 160	0	50	0	0	0	0	0	0
2 - SG/Soybean (DC)	0.0	80-100	30	80	0	0	0	0	0	0

More Information: Note: 3, Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: Soil Class: Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
9.59	0.57	19.7	82	3.6	5.3	47	44	67	14	39	79	75	68	286	475	55	0.2	1		

Sample ID: 79

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B
		Nutrients (lb/acre)								
1 - Corn, grain	0.0	120 - 160	0	70	0	0	0	0	0	0
2 - SG/Soybean (DC)	0.0	80-100	40	110	0	0	0	0	0	0

More Information: Note: 3, Note: 3

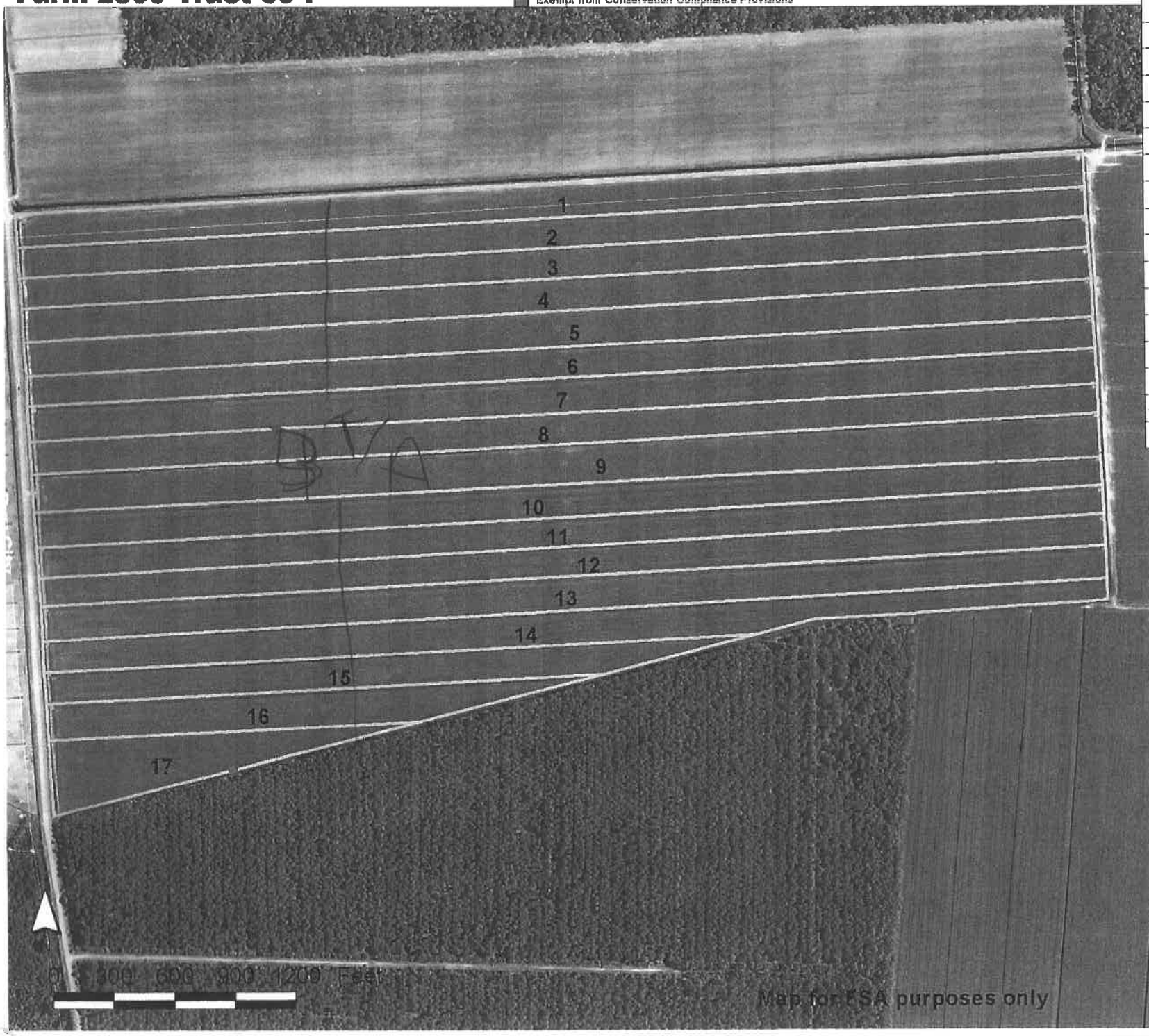
Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: Soil Class: Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.58	18.6	76	4.4	5.0	44	36	61	14	37	98	91	84	297	493	47	0.2	1		

Pamlico County FSA
Farm 2860 Tract 594

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.



Field	Acres	Crop	HEL	CRP
1	20.66		N	
2	18.02		N	
3	18.18		N	
4	19.57		N	
5	21.38		N	
6	18.39		N	
7	21.06		N	
8	18.56		N	
9	23.88		N	
10	19.43		N	
11	17.63		N	
12	17.68	--	N	
13	20.24		N	
14	17.76		N	
15	11.13		N	
16	9.61		N	
17	7.94		N	

3 T/A -

Bay City
301 acres
Do last
Below Pr, 50 M
1 Ton/ac = 60 bags

Total Cropland Acres
301.1

NCDA&CS Agronomic Division Phone: (919) 733-2655 Website: www.ncagr.gov/agronomi/ Report No. FY14-SL025067

Predictive

Soil Report

Mehlich-3 Extraction

Client: Owen (OWP) Peele
282 Peele Rd.
Aurora, NC 278069603

Sampled County : Pamlico

Advisor: Sarah Arthur, LLC
3780 Hwy 58 N
Trenton, NC 28585

Sampled: 11/23/2013 **Received:** 11/27/2013 **Completed:** 01/30/2014 **Farm:** 300

Links to Helpful Information

Sample ID: 61

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	60	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	10	90	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
9.21	0.71	18.4	81	3.4	5.6	58	40	68	12	48	63	61	54	258	428	56	0.3	2		

Sample ID: 62

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	60	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	100	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.63	19.0	81	3.6	5.4	66	39	66	14	51	62	63	56	305	506	56	0.4	2		

Sample ID: 63

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	60	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	10	90	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
8.86	0.75	14.3	80	2.9	5.5	56	41	70	8	45	44	51	44	235	390	51	0.3	2		

3 J LA

North Carolina
Tobacco Trust Fund Commission

Reprogramming of the laboratory-information-management system that makes this report possible is being funded through a grant from the North Carolina Tobacco Trust Fund Commission.

Thank you for using agronomic services to manage nutrients and safeguard environmental quality.
- *Steve Troxler, Commissioner of Agriculture*

Sample ID: 64

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	30	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	20	50	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.71	13.1	74	3.4	5.2	51	55	65	8	47	41	53	46	168	279	56	0.1	1		

Sample ID: 65

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	10	40	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	50	50	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.72	10.1	61	4.0	4.9	39	54	49	9	56	49	62	55	133	221	42	0.2	2		

Sample ID: 66

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	20	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	30	20	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.71	9.4	60	3.7	5.0	47	67	48	9	54	53	64	57	125	208	48	0.2	2		

Sample ID: 67

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.3	120 - 160	0	30	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	30	50	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
8.86	0.79	9.8	51	4.8	4.9	45	55	40	8	53	48	61	54	123	204	51	0.2	2		

Sample ID: 68

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	30	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	30	40	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.70	8.9	57	3.8	5.0	48	58	45	9	55	50	62	55	145	241	54	0.2	2		

Sample ID: 69

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	30	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	10	40	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.74	8.8	58	3.7	5.0	61	56	46	10	48	50	62	55	145	241	60	0.2	2		

Sample ID: 70

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	20	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	10	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO_3-N
8.86	0.58	31.9	96	1.2	6.3	76	68	85	10	55	76	59	52	417	692	151	0.3	1		

Sample ID: 71

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	60	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	90	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.63	22.1	86	3.1	5.6	75	41	72	13	40	63	61	54	379	629	72	0.3	1		

Sample ID: 72

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	40	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	20	70	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
9.59	0.70	15.7	80	3.2	5.4	52	48	69	9	42	45	54	47	274	455	60	0.2	1		

Sample ID: 73

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	10	40	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	40	60	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
9.59	0.68	14.7	76	3.6	5.2	40	52	67	7	45	37	52	45	229	380	68	0.2	1		

Sample ID: 74

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	20	30	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	50	50	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.66	11.3	65	4.0	5.1	36	55	52	10	52	58	65	58	154	256	52	0.2	2		

Sample ID: 75

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	10	20	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	50	30	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.69	11.0	69	3.4	5.2	38	62	54	12	52	47	57	50	293	486	49	0.2	2		

Sample ID: 76

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	40	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	30	60	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.67	10.8	62	4.0	4.9	49	51	48	12	55	57	66	59	183	304	53	0.2	2		

Sample ID: 77

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	40	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	70	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
8.24	0.76	10.2	65	3.6	5.0	62	48	51	12	51	57	66	59	190	315	62	0.2	2		

Sample ID: 78

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	50	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	30	80	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
9.59	0.57	19.7	82	3.6	5.3	47	44	67	14	39	79	75	68	286	475	55	0.2	1		

Sample ID: 79

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	70	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	40	110	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.58	18.6	76	4.4	5.0	44	36	61	14	37	98	91	84	297	493	47	0.2	1		

Sample ID: 80

Lime History:	Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
	1 - Corn, grain	0.0	120 - 160	0	50	0	0	0	0	0	0	Note: 3
	2 - SG/Soybean (DC)	0.0	80-100	30	80	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.65	15.1	73	4.1	5.0	47	43	61	10	43	69	73	66	298	495	56	0.2	1		

Sample ID: 81

Lime History:	Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
	1 - Corn, grain	0.0	120 - 160	0	40	0	0	0	0	0	0	Note: 3
	2 - SG/Soybean (DC)	0.0	80-100	30	60	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
9.21	0.68	14.3	75	3.6	5.2	47	50	64	9	45	62	66	59	240	398	74	0.2	1		

Sample ID: 82

Lime History:	Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
	1 - Corn, grain	0.0	120 - 160	20	30	0	0	0	0	0	0	Note: 3
	2 - SG/Soybean (DC)	0.0	80-100	50	50	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.71	9.9	62	3.7	5.0	37	55	50	9	50	50	62	55	119	198	53	0.2	2		

Sample ID: 83

Lime History:	Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
	1 - Corn, grain	0.3	120 - 160	10	20	0	0	0	0	0	0	Note: 3
	2 - SG/Soybean (DC)	0.0	80-100	50	30	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.64	10.9	59	4.4	4.9	38	63	47	9	56	62	69	62	144	239	71	0.2	2		

Sample ID: 84

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	10	20	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	40	30	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
9.59	0.70	9.6	58	4.0	4.9	40	63	46	9	55	47	60	53	143	237	74	0.2	2		

Sample ID: 112

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	60	40	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	80	60	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.63	26.2	88	3.2	5.8	24	51	79	8	39	67	61	54	194	322	67	0.3	1		

Sample ID: 113

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	10	40	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	50	60	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.62	20.1	80	3.9	5.3	38	52	69	10	42	88	81	74	244	405	62	0.3	1		

Sample ID: 114

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	20	50	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	50	80	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.66	17.1	80	3.4	5.4	37	43	70	9	41	77	73	66	218	362	70	0.2	1		

Sample ID: 115

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	50	40	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	80	60	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
8.24	0.61	27.6	91	2.4	5.9	25	52	82	8	39	65	57	50	219	364	66	0.2	1		

Sample ID: 116

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	50	40	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	80	60	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
9.59	0.56	25.7	88	3.1	5.6	26	50	77	10	41	87	76	69	234	388	58	0.3	1		

Sample ID: 117

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	10	30	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	40	50	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.63	18.4	78	4.1	5.0	40	55	66	10	37	89	85	78	237	393	60	0.2	1		

Understanding the Soil Report: explanation of measurements, abbreviations and units

Recommendations

Lime

If testing finds that soil pH is too low for the crop(s) indicated, a ***lime recommendation*** will be given in units of either ton/acre or lb/1000 sq ft. For best results, mix the lime into the top 6 to 8 inches of soil several months before planting. For no-till or established plantings where this is not possible, apply no more than 1 to 1.5 ton/acre (50 lb/1000 sq ft) at one time, even if the report recommends more. You can apply the rest in similar increments every six months until the full rate is applied. If MG is recommended and lime is needed, use dolomitric lime.

Fertilizer

Recommendations ***for field crops or other large areas*** are listed separately for each nutrient to be added (in units of lb/acre unless otherwise specified). Recommendations for N (and sometimes for B) are based on research/field studies for the crop being grown, not on soil test results. K-I and P-I values are based on test results and should be > 50. If they are not, follow the fertilizer recommendations given. If Mg is needed and no lime is recommended, 0-0-22 (11.5% Mg) is an excellent source; 175 to 250 lb per acre alone or in a fertilizer blend will usually satisfy crop needs, SS-I levels appear only on reports for greenhouse soil or problem samples.

Farmers and other commercial producers should pay special attention to ***micronutrient levels***. If *$*, *pH$*, *$pH*, *C* or *Z* notations appear on the soil report, refer to *$Note: Secondary Nutrients and Micronutrients*. In general, homeowners do not need to be concerned about micronutrients. Various crop notes also address lime fertilizer needs; visit ncagr.gov/agronomi/pubs.htm.

Recommendations ***for small areas, such as home lawns/gardens,*** are listed in units of lb/1000 sq ft . If you cannot find the exact fertilizer grade recommended on the report, visit *www.ncagr.gov/agronomi/obpart4.htm#fs* to find information that may help you choose a comparable alternate. For more information, read *A Homeowner's Guide to Fertilizer.*

Test Results

The first seven values [soil class, HM%, W/V, CEC, BS%, Ac and pH] describe the soil and its degree of acidity. The remaining 16 [P-I, K-I, Ca%, Mg%, Mn-I, Mn-AI1, Mn-AI2, Zn-I, Zn-AI, Cu-I, S-I, SS-I, Na, ESP, SS-I, NO_3-N (not routinely available)] indicate levels of plant nutrients or other fertility measurement. Visit *www.ncagr.gov/agronomi/uyrst.htm* for more information.

Report Abbreviations

Ac	exchangeable acidity
B	boron
BS%	% CEC occupied by basic cations
Ca%	% CEC occupied by calcium
CEC	cation exchange capacity
Cu-I	copper index
ESP	exchangeable sodium percent
HM%	percent humic matter
K-I	potassium index
K_2O	potash
Mg%	% CEC occupied by magnesium
MIN	mineral soil class
Mn	manganese
Mn-AI1	Mn-availability index for crop 1
Mn-AI2	Mn-availability index for crop 2
Mn-I	manganese index
M-O	mineral-organic soil class
N	nitrogen
Na	sodium
NO_3-N	nitrate nitrogen
ORG	organic soil class
pH	current soil pH
P-I	phosphorus index
P_2O_5	phosphate
S-I	sulfur index
SS-I	soluble salt index
W/V	weight per volume
Zn-AI	zinc availability index
Zn-I	zinc index

Field Sampler

State Index Values

Grower: Owen Peele
Farm: 300 Acre Block
Acres: 8.96

Field(s): 1A

Sarah Arthur LLC
211 Cameron Shores
New Bern, NC 28562
PHONE: 252-229-3907
FAX: 888-670-1840

Element	Average	Range
P-I:	79	53 - 105
K-I:	90	76 - 103
Mg%:	8.5	8.0 - 9.0
Ca%:	60.9	55.0 - 66.7
pH:	6.05	5.80 - 6.30
Ac:	2.60	2.40 - 2.80
S-I:	53	38 - 68
Zn-I:	310	134 - 487
Zn-Al:	N/A	N/A
Mn-I:	64	40 - 87
Mn-Al:	N/A	N/A
Cu-I:	156	62 - 250
CEC:	19.0	16.2 - 21.8
HM%:	10.2	10.0 - 10.3

Field	No.	P-I	K-I	Mg (%)	Ca (%)	pH	Ac	S-I	Zn-I	Zn-Al	Mn-I	Mn-Al	Cu-I	CEC	HM (%)
1A															
	1	105.0	103.0	9.0	66.7	6.3	2.4	68.0	487.0	n/a	87.0	n/a	250.0	21.8	10.0
	2	53.0	76.0	8.0	55.0	5.8	2.8	38.0	134.0	n/a	40.0	n/a	62.0	16.2	10.3

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SAMPLE DATE: 2013-12-20
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Field Sampler

State Index Values

Grower: Owen Peele
Farm: 300 Acre Block
Acres: 10.95

Field(s): 1B

Sarah Arthur LLC
211 Cameron Shores
New Bern, NC 28562
PHONE: 252-229-3907
FAX: 888-670-1840

Element	Average	Range
P-I:	31	28 - 34
K-I:	91	78 - 116
Mg%:	8.3	7.4 - 8.8
Ca%:	35.0	29.8 - 40.4
pH:	5.57	5.50 - 5.70
Ac:	3.40	3.00 - 4.00
S-I:	40	38 - 43
Zn-I:	43	37 - 46
Zn-Al:	N/A	N/A
Mn-I:	26	25 - 28
Mn-Al:	N/A	N/A
Cu-I:	26	22 - 30
CEC:	12.8	11.6 - 13.4
HM%:	11.0	9.0 - 12.3

Field	No.	P-I	K-I	Mg (%)	Ca (%)	pH	Ac	S-I	Zn-I	Zn-Al	Mn-I	Mn-Al	Cu-I	CEC	HM (%)
1B															
	3	34.0	78.0	8.8	40.4	5.5	3.2	40.0	46.0	n/a	28.0	n/a	30.0	13.4	9.0
	4	28.0	116.0	8.7	34.8	5.7	3.0	43.0	37.0	n/a	25.0	n/a	25.0	11.6	11.6
	5	31.0	79.0	7.4	29.8	5.5	4.0	38.0	46.0	n/a	25.0	n/a	22.0	13.4	12.3

SAMPLE DATE: 2013-12-20
ISSUED: 9:01am EST Jan30, 2014
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Field Sampler

State Index Values

Grower: Owen Peele
Farm: 300 Acre Block
Acres: 7.42

Field(s): 2A

Sarah Arthur LLC
211 Cameron Shores
New Bern, NC 28562
PHONE: 252-229-3907
FAX: 888-670-1840

Element	Average	Range
P-I:	44	42 - 47
K-I:	65	61 - 69
Mg%:	6.2	5.9 - 6.5
Ca%:	43.7	43.2 - 44.1
pH:	5.40	5.30 - 5.50
Ac:	4.00	4.00 - 4.00
S-I:	40	40 - 41
Zn-I:	128	108 - 149
Zn-Al:	N/A	N/A
Mn-I:	42	40 - 43
Mn-Al:	N/A	N/A
Cu-I:	50	46 - 54
CEC:	16.6	16.3 - 16.9
HM%:	17.7	15.2 - 20.2

Field	No.	P-I	K-I	Mg (%)	Ca (%)	pH	Ac	S-I	Zn-I	Zn-Al	Mn-I	Mn-Al	Cu-I	CEC	HM (%)
2A															
	6	47.0	69.0	6.5	44.1	5.5	4.0	40.0	149.0	n/a	43.0	n/a	46.0	16.9	20.2
	7	42.0	61.0	5.9	43.2	5.3	4.0	41.0	108.0	n/a	40.0	n/a	54.0	16.3	15.2

SAMPLE DATE: 2013-12-20
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Field Sampler

State Index Values

Grower: Owen Peele
Farm: 300 Acre Block
Acres: 10.07

Field(s): 2B

Sarah Arthur LLC
211 Cameron Shores
New Bern, NC 28562
PHONE: 252-229-3907
FAX: 888-670-1840

Element	Average	Range
P-I:	30	25 - 35
K-I:	81	69 - 93
Mg%:	6.2	5.9 - 6.4
Ca%:	32.5	31.6 - 33.5
pH:	5.30	5.20 - 5.40
Ac:	4.00	4.00 - 4.00
S-I:	40	38 - 42
Zn-I:	60	50 - 71
Zn-Al:	N/A	N/A
Mn-I:	36	34 - 37
Mn-Al:	N/A	N/A
Cu-I:	32	29 - 34
CEC:	13.7	13.5 - 13.9
HM%:	19.9	17.7 - 22.2

Field	No.	P-I	K-I	Mg (%)	Ca (%)	pH	Ac	S-I	Zn-I	Zn-Al	Mn-I	Mn-Al	Cu-I	CEC	HM (%)
2B															
	8	25.0	93.0	5.9	31.6	5.4	4.0	42.0	50.0	n/a	34.0	n/a	29.0	13.5	17.7
	9	35.0	69.0	6.4	33.5	5.2	4.0	38.0	71.0	n/a	37.0	n/a	34.0	13.9	22.2

SAMPLE DATE: 2013-12-20
ISSUED: 9:03am EST Jan30, 2014
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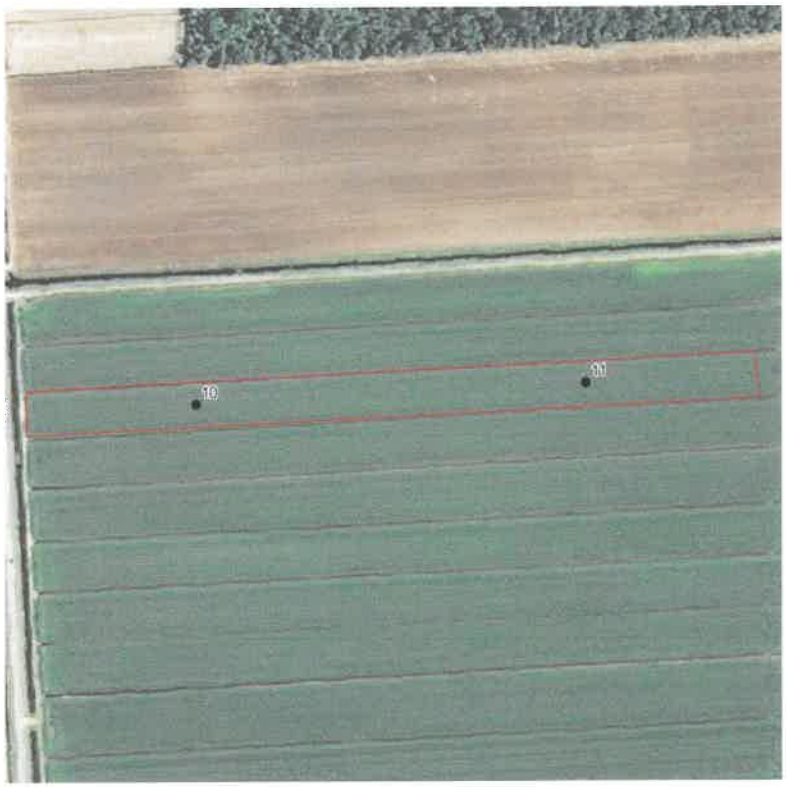
Field Sampler

State Index Values

Grower: Owen Peele
Farm: 300 Acre Block
Acres: 7.58

Field(s): 3A

Sarah Arthur LLC
211 Cameron Shores
New Bern, NC 28562
PHONE: 252-229-3907
FAX: 888-670-1840



Element	Average	Range
P-I:	41	40 - 42
K-I:	56	51 - 62
Mg%:	6.2	6.0 - 6.3
Ca%:	44.3	43.6 - 45.0
pH:	5.45	5.30 - 5.60
Ac:	4.00	4.00 - 4.00
S-I:	41	40 - 42
Zn-I:	126	114 - 138
Zn-Al:	N/A	N/A
Mn-I:	48	37 - 59
Mn-Al:	N/A	N/A
Cu-I:	53	49 - 57
CEC:	16.8	16.4 - 17.1
HM%:	17.5	13.3 - 21.7

Field No.	P-I	K-I	Mg (%)	Ca (%)	pH	Ac	S-I	Zn-I	Zn-Al	Mn-I	Mn-Al	Cu-I	CEC	HM (%)
3A														
10	42.0	51.0	6.0	43.6	5.3	4.0	40.0	138.0	n/a	59.0	n/a	49.0	16.4	21.7
11	40.0	62.0	6.3	45.0	5.6	4.0	42.0	114.0	n/a	37.0	n/a	57.0	17.1	13.3

SAMPLE DATE: 2013-12-20
ISSUED: 9:05am EST Jan30, 2014
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Field Sampler

State Index Values

Grower: Owen Peele
Farm: 300 Acre Block
Acres: 10.50

Field(s): 3B

Sarah Arthur LLC
211 Cameron Shores
New Bern, NC 28562
PHONE: 252-229-3907
FAX: 888-670-1840

Element	Average	Range
P-I:	29	27 - 31
K-I:	83	70 - 95
Mg%:	7.2	6.7 - 7.8
Ca%:	32.9	31.8 - 34.6
pH:	5.43	5.30 - 5.50
Ac:	4.00	4.00 - 4.00
S-I:	42	40 - 43
Zn-I:	69	54 - 77
Zn-Al:	N/A	N/A
Mn-I:	35	31 - 37
Mn-Al:	N/A	N/A
Cu-I:	32	28 - 38
CEC:	14.1	13.6 - 14.6
HM%:	19.3	15.7 - 23.7

Field	No.	P-I	K-I	Mg (%)	Ca (%)	pH	Ac	S-I	Zn-I	Zn-Al	Mn-I	Mn-Al	Cu-I	CEC	HM (%)
3B															
	12	31.0	95.0	7.1	32.3	5.5	4.0	42.0	54.0	n/a	37.0	n/a	28.0	14.0	15.7
	13	27.0	85.0	7.8	34.6	5.5	4.0	43.0	77.0	n/a	37.0	n/a	38.0	14.6	18.4
	14	28.0	70.0	6.7	31.8	5.3	4.0	40.0	76.0	n/a	31.0	n/a	31.0	13.6	23.7

SAMPLE DATE: 2013-12-20
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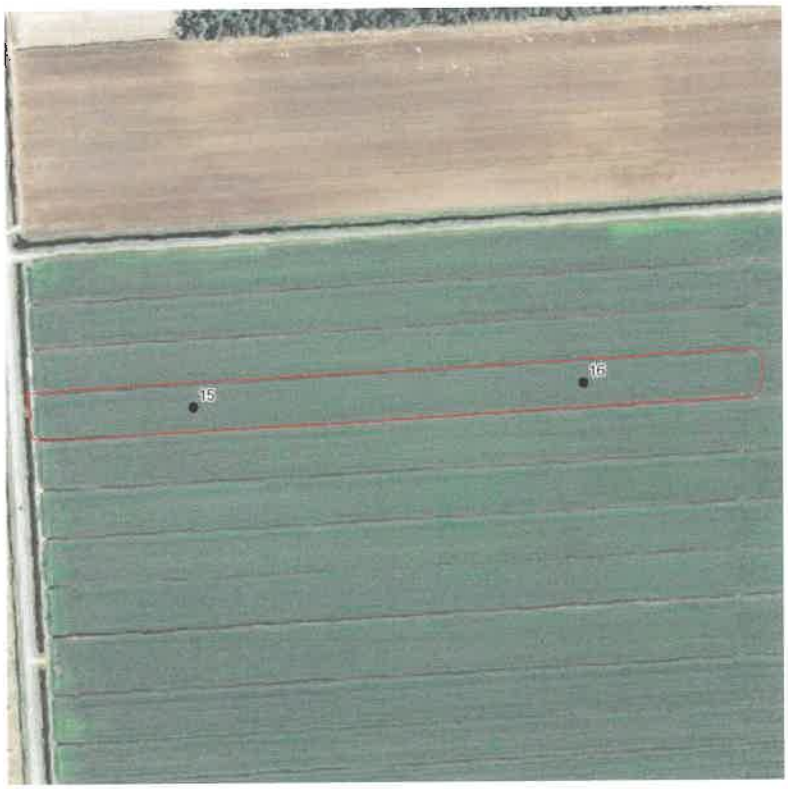
Field Sampler

State Index Values

Grower: Owen Peele
Farm: 300 Acre Block
Acres: 9.21

Field(s): 4A

Sarah Arthur LLC
211 Cameron Shores
New Bern, NC 28562
PHONE: 252-229-3907
FAX: 888-670-1840



Element	Average	Range
P-I:	40	38 - 43
K-I:	68	59 - 76
Mg%:	5.8	5.7 - 5.9
Ca%:	42.1	41.0 - 43.3
pH:	5.55	5.30 - 5.80
Ac:	3.80	3.80 - 3.80
S-I:	42	42 - 42
Zn-I:	128	118 - 139
Zn-Al:	N/A	N/A
Mn-I:	37	34 - 40
Mn-Al:	N/A	N/A
Cu-I:	48	43 - 53
CEC:	15.2	14.8 - 15.7
HM%:	13.3	10.8 - 15.8

Field	No.	P-I	K-I	Mg (%)	Ca (%)	pH	Ac	S-I	Zn-I	Zn-Al	Mn-I	Mn-Al	Cu-I	CEC	HM (%)
4A															
	15	38.0	59.0	5.7	41.0	5.3	3.8	42.0	139.0	n/a	40.0	n/a	43.0	14.8	15.8
	16	43.0	76.0	5.9	43.3	5.8	3.8	42.0	118.0	n/a	34.0	n/a	53.0	15.7	10.8

SAMPLE DATE: 2013-12-20
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Field Sampler

State Index Values

Grower: Owen Peele
Farm: 300 Acre Block
Acres: 10.53

Field(s): 4B

Sarah Arthur LLC
211 Cameron Shores
New Bern, NC 28562
PHONE: 252-229-3907
FAX: 888-670-1840

Element	Average	Range
P-I:	31	30 - 32
K-I:	76	69 - 82
Mg%:	6.4	6.3 - 6.5
Ca%:	31.3	30.4 - 32.2
pH:	5.35	5.30 - 5.40
Ac:	4.00	4.00 - 4.00
S-I:	39	37 - 41
Zn-I:	72	67 - 76
Zn-Al:	N/A	N/A
Mn-I:	32	31 - 34
Mn-Al:	N/A	N/A
Cu-I:	24	24 - 25
CEC:	13.4	13.3 - 13.6
HM%:	22.5	19.1 - 25.8

Field	No.	P-I	K-I	Mg (%)	Ca (%)	pH	Ac	S-I	Zn-I	Zn-Al	Mn-I	Mn-Al	Cu-I	CEC	HM (%)
4B															
	17	30.0	82.0	6.5	30.4	5.4	4.0	41.0	67.0	n/a	31.0	n/a	25.0	13.3	19.1
	18	32.0	69.0	6.3	32.2	5.3	4.0	37.0	76.0	n/a	34.0	n/a	24.0	13.6	25.8

SAMPLE DATE: 2013-12-20
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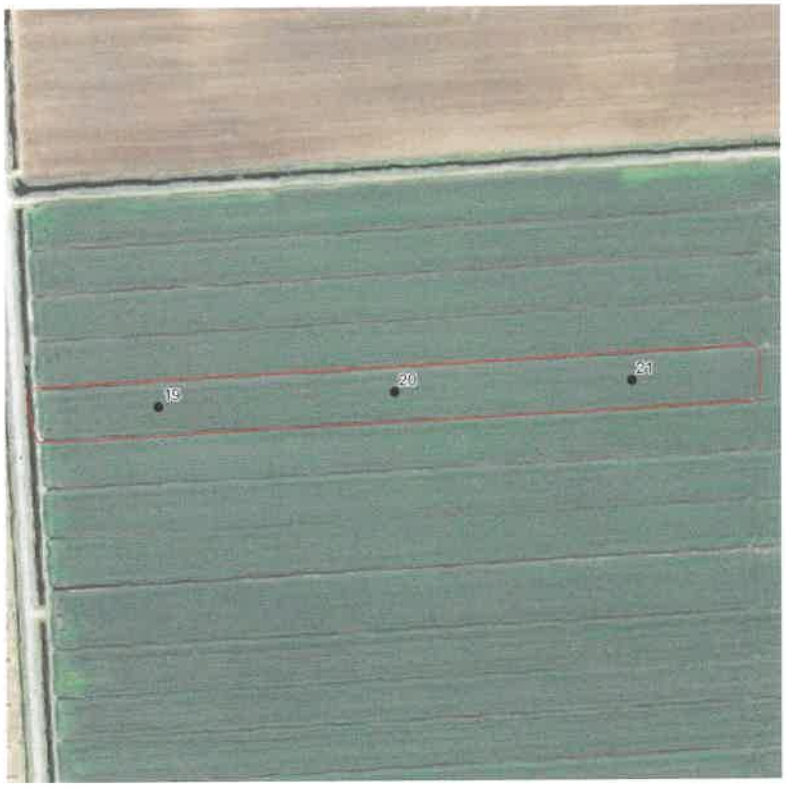
Field Sampler

State Index Values

Grower: Owen Peele
Farm: 300 Acre Block
Acres: 10.25

Field(s): 5A

Sarah Arthur LLC
211 Cameron Shores
New Bern, NC 28562
PHONE: 252-229-3907
FAX: 888-670-1840



Element	Average	Range
P-I:	50	45 - 54
K-I:	57	43 - 69
Mg%:	5.5	5.1 - 5.9
Ca%:	42.4	38.1 - 47.1
pH:	5.47	5.40 - 5.50
Ac:	3.73	3.20 - 4.00
S-I:	43	38 - 47
Zn-I:	103	94 - 112
Zn-AI:	N/A	N/A
Mn-I:	36	34 - 37
Mn-AI:	N/A	N/A
Cu-I:	32	27 - 36
CEC:	14.9	12.9 - 17.2
HM%:	21.7	10.7 - 32.0

Field No.	P-I	K-I	Mg (%)	Ca (%)	pH	Ac	S-I	Zn-I	Zn-AI	Mn-I	Mn-AI	Cu-I	CEC	HM (%)
5A														
19	45.0	43.0	5.1	47.1	5.4	4.0	38.0	104.0	n/a	37.0	n/a	27.0	17.2	32.0
20	54.0	59.0	5.4	38.1	5.5	4.0	43.0	112.0	n/a	34.0	n/a	32.0	14.7	22.3
21	50.0	69.0	5.9	42.0	5.5	3.2	47.0	94.0	n/a	37.0	n/a	36.0	12.9	10.7

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SAMPLE DATE: 2013-12-20
ISSUED: 9:09am EST Jan30, 2014
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Field Sampler

State Index Values

Grower: Owen Peele
Farm: 300 Acre Block
Acres: 13.07

Field(s): 5B

Sarah Arthur LLC
211 Cameron Shores
New Bern, NC 28562
PHONE: 252-229-3907
FAX: 888-670-1840

Element	Average	Range
P-I:	43	42 - 45
K-I:	80	68 - 87
Mg%:	8.1	7.5 - 8.8
Ca%:	28.9	27.2 - 30.3
pH:	5.40	5.30 - 5.50
Ac:	3.93	3.80 - 4.00
S-I:	46	45 - 47
Zn-I:	74	57 - 83
Zn-Al:	N/A	N/A
Mn-I:	30	28 - 31
Mn-Al:	N/A	N/A
Cu-I:	25	22 - 28
CEC:	13.1	12.9 - 13.2
HM%:	14.6	12.5 - 17.9

Field No.	P-I	K-I	Mg (%)	Ca (%)	pH	Ac	S-I	Zn-I	Zn-Al	Mn-I	Mn-Al	Cu-I	CEC	HM (%)
5B														
22	43.0	87.0	8.8	30.3	5.4	3.8	46.0	83.0	n/a	31.0	n/a	28.0	13.2	12.5
23	42.0	84.0	7.5	27.2	5.5	4.0	45.0	57.0	n/a	28.0	n/a	22.0	12.9	13.3
24	45.0	68.0	7.9	29.1	5.3	4.0	47.0	81.0	n/a	31.0	n/a	26.0	13.2	17.9

SAMPLE DATE: 2013-12-20
ISSUED: 9:10am EST Jan30, 2014
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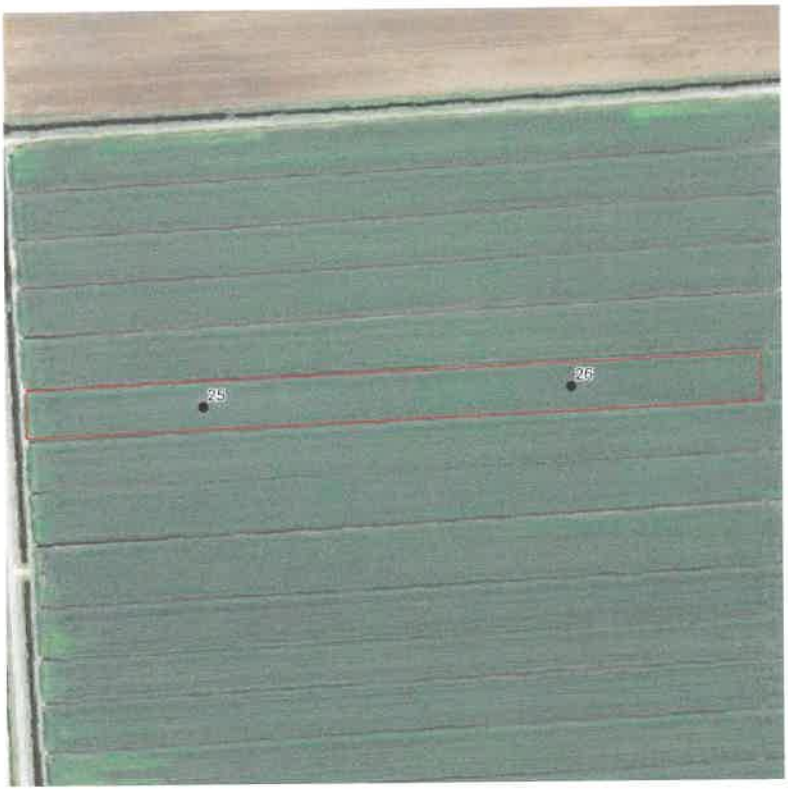
Field Sampler

State Index Values

Grower: Owen Peele
Farm: 300 Acre Block
Acres: 8.09

Field(s): 6A

Sarah Arthur LLC
211 Cameron Shores
New Bern, NC 28562
PHONE: 252-229-3907
FAX: 888-670-1840



Element	Average	Range
P-I:	56	53 - 58
K-I:	60	46 - 75
Mg%:	6.0	5.8 - 6.3
Ca%:	42.9	42.6 - 43.2
pH:	5.45	5.30 - 5.60
Ac:	4.00	4.00 - 4.00
S-I:	42	40 - 45
Zn-I:	112	104 - 119
Zn-Al:	N/A	N/A
Mn-I:	36	31 - 40
Mn-Al:	N/A	N/A
Cu-I:	37	35 - 39
CEC:	16.2	16.2 - 16.3
HM%:	31.8	17.6 - 46.0

Field	No.	P-I	K-I	Mg (%)	Ca (%)	pH	Ac	S-I	Zn-I	Zn-Al	Mn-I	Mn-Al	Cu-I	CEC	HM (%)
6A															
	25	58.0	46.0	6.3	43.2	5.3	4.0	40.0	119.0	n/a	40.0	n/a	35.0	16.3	46.0
	26	53.0	75.0	5.8	42.6	5.6	4.0	45.0	104.0	n/a	31.0	n/a	39.0	16.2	17.6

SAMPLE DATE: 2013-12-20
ISSUED: 9:11am EST Jan30, 2014
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Field Sampler

State Index Values

Grower: Owen Peele
Farm: 300 Acre Block
Acres: 11.17

Field(s): 6B

Sarah Arthur LLC
211 Cameron Shores
New Bern, NC 28562
PHONE: 252-229-3907
FAX: 888-670-1840

Element	Average	Range
P-I:	42	40 - 45
K-I:	60	57 - 63
Mg%:	7.8	7.3 - 8.4
Ca%:	34.3	32.8 - 35.8
pH:	5.30	5.30 - 5.30
Ac:	4.00	4.00 - 4.00
S-I:	38	38 - 38
Zn-I:	90	79 - 100
Zn-Al:	N/A	N/A
Mn-I:	32	31 - 34
Mn-Al:	N/A	N/A
Cu-I:	28	26 - 31
CEC:	14.4	13.9 - 14.9
HM%:	18.4	18.4 - 18.5

Field No.	P-I	K-I	Mg (%)	Ca (%)	pH	Ac	S-I	Zn-I	Zn-Al	Mn-I	Mn-Al	Cu-I	CEC	HM (%)
6B														
27	45.0	63.0	7.3	32.8	5.3	4.0	38.0	79.0	n/a	31.0	n/a	31.0	13.9	18.5
28	40.0	57.0	8.4	35.8	5.3	4.0	38.0	100.0	n/a	34.0	n/a	26.0	14.9	18.4

SAMPLE DATE: 2013-12-20
ISSUED: 9:12am EST Jan30, 2014
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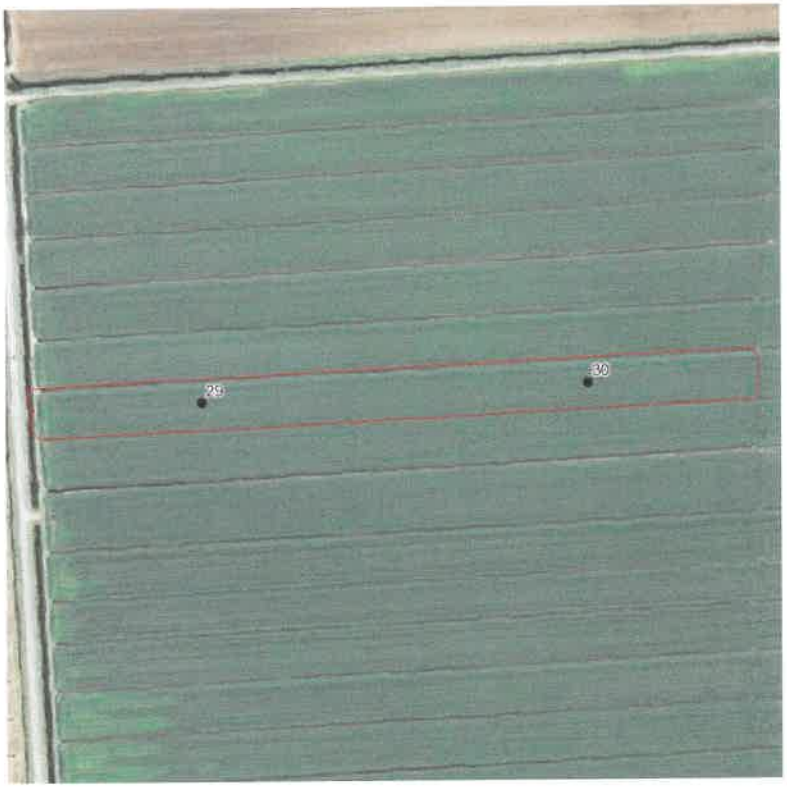
Field Sampler

State Index Values

Grower: Owen Peele
Farm: 300 Acre Block
Acres: 9.12

Field(s): 7A

Sarah Arthur LLC
211 Cameron Shores
New Bern, NC 28562
PHONE: 252-229-3907
FAX: 888-670-1840



Element	Average	Range
P-I:	42	41 - 42
K-I:	38	36 - 41
Mg%:	7.0	6.4 - 7.5
Ca%:	42.9	40.5 - 45.3
pH:	5.25	5.20 - 5.30
Ac:	4.00	4.00 - 4.00
S-I:	38	37 - 40
Zn-I:	104	95 - 112
Zn-Al:	N/A	N/A
Mn-I:	48	37 - 59
Mn-Al:	N/A	N/A
Cu-I:	36	33 - 40
CEC:	16.4	15.4 - 17.3
HM%:	31.6	22.9 - 40.3

Field No.	P-I	K-I	Mg (%)	Ca (%)	pH	Ac	S-I	Zn-I	Zn-Al	Mn-I	Mn-Al	Cu-I	CEC	HM (%)
7A														
29	42.0	36.0	7.5	45.3	5.2	4.0	37.0	112.0	n/a	59.0	n/a	40.0	17.3	40.3
30	41.0	41.0	6.4	40.5	5.3	4.0	40.0	95.0	n/a	37.0	n/a	33.0	15.4	22.9

SAMPLE DATE: 2013-12-20
ISSUED: 9:13am EST Jan30, 2014
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Field Sampler

State Index Values

Grower: Owen Peele
Farm: 300 Acre Block
Acres: 11.84

Field(s): 7B

Sarah Arthur LLC
211 Cameron Shores
New Bern, NC 28562
PHONE: 252-229-3907
FAX: 888-670-1840

Element	Average	Range
P-I:	39	35 - 41
K-I:	55	47 - 62
Mg%:	7.8	7.4 - 8.3
Ca%:	32.0	31.6 - 32.5
pH:	5.27	5.20 - 5.30
Ac:	4.00	4.00 - 4.00
S-I:	41	40 - 42
Zn-I:	85	75 - 92
Zn-Al:	N/A	N/A
Mn-I:	31	25 - 34
Mn-Al:	N/A	N/A
Cu-I:	35	27 - 46
CEC:	13.8	13.6 - 14.0
HM%:	18.5	13.1 - 24.5

Field No.	P-I	K-I	Mg (%)	Ca (%)	pH	Ac	S-I	Zn-I	Zn-Al	Mn-I	Mn-Al	Cu-I	CEC	HM (%)
7B														
31	40.0	57.0	8.3	32.5	5.3	4.0	42.0	92.0	n/a	34.0	n/a	32.0	14.0	13.1
32	35.0	62.0	7.4	31.6	5.3	4.0	42.0	75.0	n/a	25.0	n/a	46.0	13.6	17.9
33	41.0	47.0	7.8	31.9	5.2	4.0	40.0	89.0	n/a	34.0	n/a	27.0	13.7	24.5

SAMPLE DATE: 2013-12-20
ISSUED: 9:13am EST Jan30, 2014
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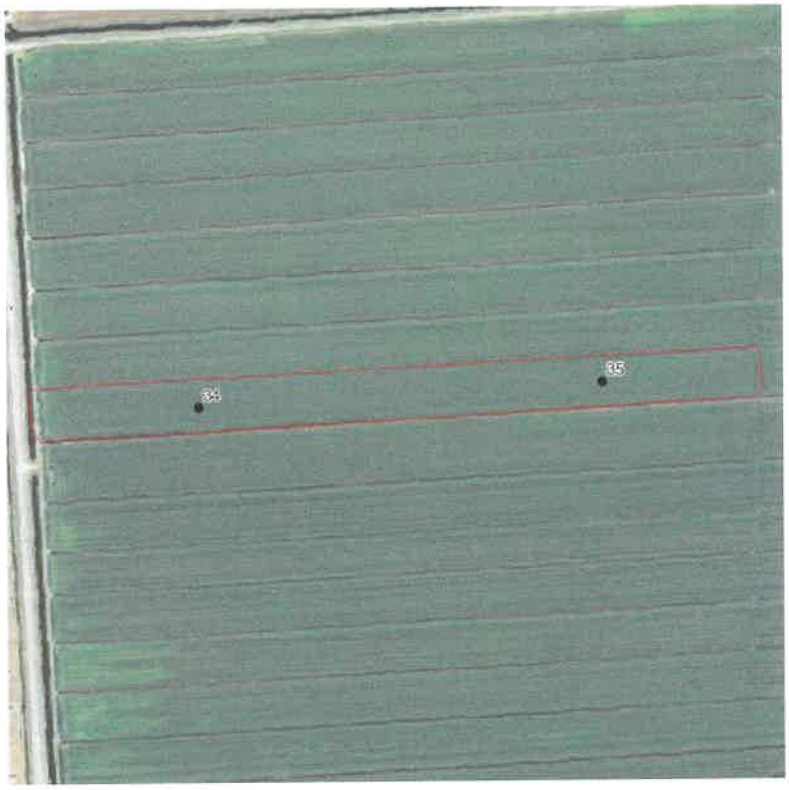
Field Sampler

State Index Values

Grower: Owen Peele
Farm: 300 Acre Block
Acres: 9.20

Field(s): 8A

Sarah Arthur LLC
211 Cameron Shores
New Bern, NC 28562
PHONE: 252-229-3907
FAX: 888-670-1840



Element	Average	Range
P-I:	39	34 - 44
K-I:	42	36 - 49
Mg%:	7.3	6.1 - 8.5
Ca%:	49.8	45.8 - 53.7
pH:	5.65	5.60 - 5.70
Ac:	3.80	3.60 - 4.00
S-I:	38	33 - 42
Zn-I:	118	106 - 129
Zn-Al:	N/A	N/A
Mn-I:	56	40 - 71
Mn-Al:	N/A	N/A
Cu-I:	44	39 - 48
CEC:	18.3	17.1 - 19.5
HM%:	18.3	14.5 - 22.1

Field No.	P-I	K-I	Mg (%)	Ca (%)	pH	Ac	S-I	Zn-I	Zn-Al	Mn-I	Mn-Al	Cu-I	CEC	HM (%)
8A														
34	34.0	36.0	8.5	53.7	5.7	3.6	33.0	129.0	n/a	71.0	n/a	48.0	19.5	22.1
35	44.0	49.0	6.1	45.8	5.6	4.0	42.0	106.0	n/a	40.0	n/a	39.0	17.1	14.5

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Field Sampler

State Index Values

Grower: Owen Peele
Farm: 300 Acre Block
Acres: 10.99

Field(s): 8B

Sarah Arthur LLC
211 Cameron Shores
New Bern, NC 28562
PHONE: 252-229-3907
FAX: 888-670-1840

Element	Average	Range
P-I:	42	41 - 44
K-I:	61	59 - 63
Mg%:	6.8	6.8 - 6.8
Ca%:	34.1	33.8 - 34.4
pH:	5.25	5.20 - 5.30
Ac:	4.00	4.00 - 4.00
S-I:	40	38 - 41
Zn-I:	87	83 - 91
Zn-Al:	N/A	N/A
Mn-I:	32	31 - 34
Mn-Al:	N/A	N/A
Cu-I:	38	33 - 43
CEC:	14.1	14.0 - 14.2
HM%:	10.6	9.2 - 11.9

Field	No.	P-I	K-I	Mg (%)	Ca (%)	pH	Ac	S-I	Zn-I	Zn-Al	Mn-I	Mn-Al	Cu-I	CEC	HM (%)
8B															
	36	41.0	59.0	6.8	33.8	5.3	4.0	41.0	83.0	n/a	31.0	n/a	33.0	14.0	9.2
	37	44.0	63.0	6.8	34.4	5.2	4.0	38.0	91.0	n/a	34.0	n/a	43.0	14.2	11.9

SAMPLE DATE: 2013-12-20
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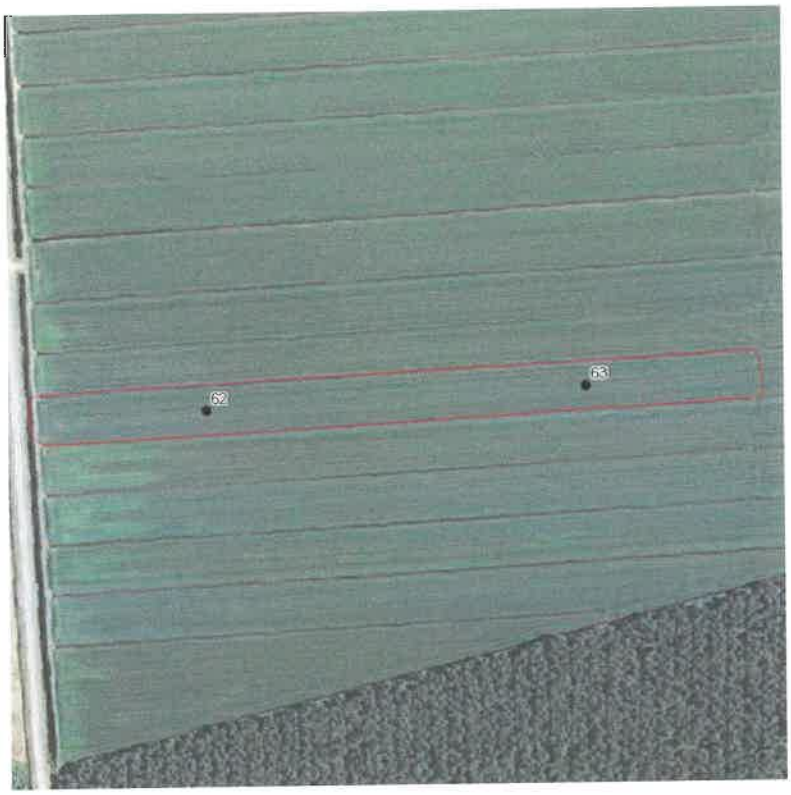
Field Sampler

State Index Values

Grower: Owen Peele
Farm: 300 Acre Block
Acres: 8.49

Field(s): 12A

Sarah Arthur LLC
211 Cameron Shores
New Bern, NC 28562
PHONE: 252-229-3907
FAX: 888-670-1840



Element	Average	Range
P-I:	45	44 - 46
K-I:	48	45 - 51
Mg%:	8.4	7.1 - 9.8
Ca%:	56.2	50.9 - 61.6
pH:	5.65	5.40 - 5.90
Ac:	3.40	3.20 - 3.60
S-I:	34	30 - 37
Zn-I:	226	196 - 256
Zn-Al:	N/A	N/A
Mn-I:	37	28 - 46
Mn-Al:	N/A	N/A
Cu-I:	54	49 - 59
CEC:	20.5	17.7 - 23.3
HM%:	21.1	17.1 - 25.0

Field	No.	P-I	K-I	Mg (%)	Ca (%)	pH	Ac	S-I	Zn-I	Zn-Al	Mn-I	Mn-Al	Cu-I	CEC	HM (%)
12A															
	62	44.0	51.0	9.8	61.6	5.9	3.2	30.0	256.0	n/a	46.0	n/a	59.0	23.3	25.0
	63	46.0	45.0	7.1	50.9	5.4	3.6	37.0	196.0	n/a	28.0	n/a	49.0	17.7	17.1

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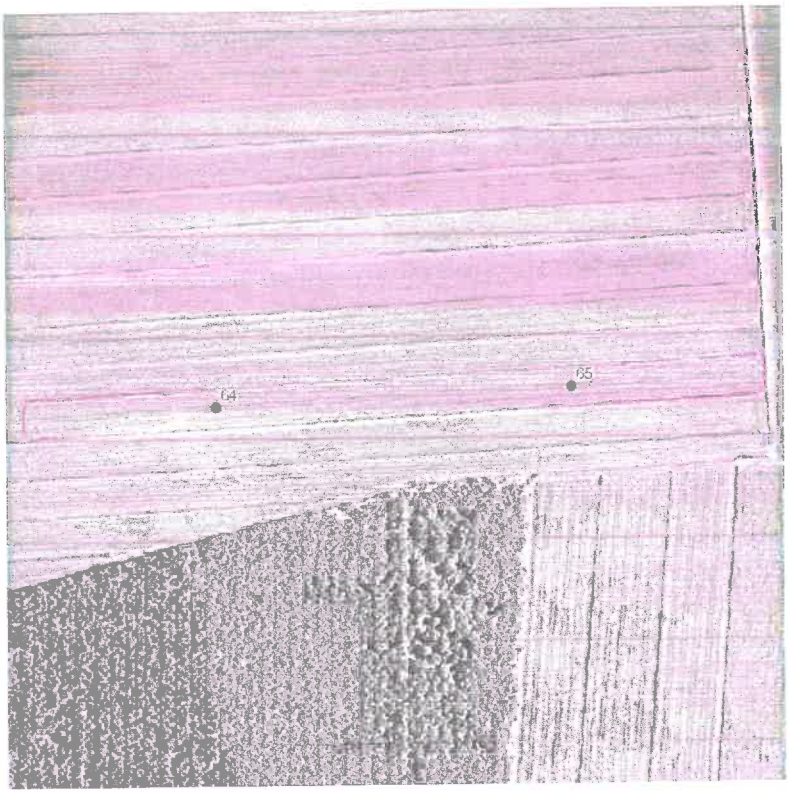
Field Sampler

State Index Values

Grower: Owen Peele
Farm: 300 Acre Block
Acres: 11.08

Field(s): 12B

Sarah Arthur LLC
211 Cameron Shores
New Bern, NC 28562
PHONE: 252-229-3907
FAX: 888-670-1840



Element	Average	Range
P-I:	44	42 - 45
K-I:	66	64 - 69
Mg%:	6.1	5.7 - 6.4
Ca%:	34.7	31.1 - 38.3
pH:	5.25	5.20 - 5.30
Ac:	3.80	3.60 - 4.00
S-I:	42	41 - 42
Zn-I:	98	93 - 102
Zn-Al:	N/A	N/A
Mn-I:	22	18 - 25
Mn-Al:	N/A	N/A
Cu-I:	40	36 - 43
CEC:	13.4	13.4 - 13.4
HM%:	12.8	11.1 - 14.4

Field No.	P-I	K-I	Mg (%)	Ca (%)	pH	Ac	S-I	Zn-I	Zn-Al	Mn-I	Mn-Al	Cu-I	CEC	HM (%)
12B														
64	42.0	64.0	5.7	38.3	5.3	3.6	42.0	102.0	n/a	25.0	n/a	43.0	13.4	11.1
65	45.0	69.0	6.4	31.1	5.2	4.0	41.0	93.0	n/a	18.0	n/a	36.0	13.4	14.4

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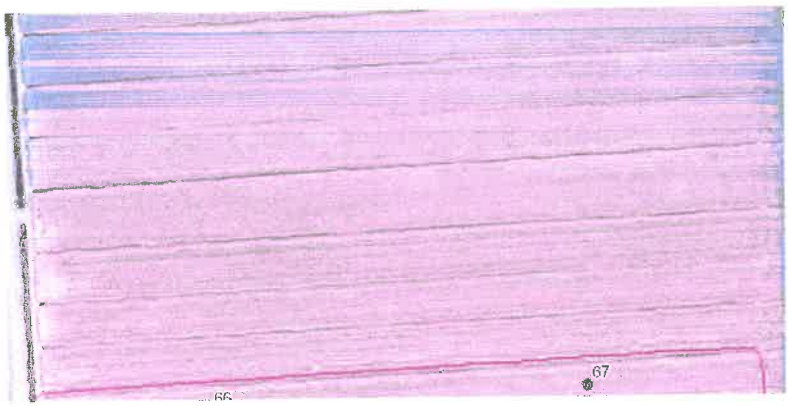
Field Sampler

State Index Values

Grower: Owen Peele
Farm: 300 Acre Block
Acres: 9.17

Field(s): 13A

Sarah Arthur LLC
211 Cameron Shores
New Bern, NC 28562
PHONE: 252-229-3907
FAX: 888-670-1840



Element	Average	Range
P-I:	36	31 - 40
K-I:	44	42 - 47
Mg%:	8.2	7.5 - 9.0
Ca%:	56.6	48.4 - 64.8
pH:	5.60	5.30 - 5.90
Ac:	3.00	2.60 - 3.40
S-I:	33	30 - 36
Zn-I:	132	131 - 133
Zn-Al:	N/A	N/A
Mn-I:	34	34 - 34
Mn-Al:	N/A	N/A

Pamlico County FSA
Farm 2374 Tract 612

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland Identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

Field	Acres	Crop	HEL	CRP
1	23.97		N	
2	24.92		N	
3	24.24		N	
~~4~~	~~8.51~~		N	
5	~~8.33~~		N	
6	~~7.80~~		N	
7	~~8.27~~		N	
8	~~9.58~~		N	
10	~~2.16~~		N	

1-3

4 T/A

Off from Silos

Total Cropland Acres
117.8

NCDA&CS Agronomic Division Phone: (919) 733-2655 Website: www.ncagr.gov/agronomi/ Report No. FY14-SL025066

Predictive

Soil Report

Mehlich-3 Extraction

Client: Owen (OWP) Peele
282 Peele Rd.
Aurora, NC 278069603

Sampled County : Orange

Advisor: Sarah Arthur, LLC
3780 Hwy 58 N
Trenton, NC 28585

Sampled: 11/23/2013 **Received:** 11/27/2013 **Completed:** 01/30/2014 **Farm:** SSB

Links to Helpful Information

Sample ID: 1

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	0	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	0	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.81	12.8	59	5.3	5.2	62	81	44	11	53	46	57	50	150	249	53	0.1	1		

Sample ID: 2

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	10	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	30	0	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.74	11.1	55	5.0	5.1	46	76	41	11	60	47	59	52	137	227	42	0.2	2		

Sample ID: 3

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	10	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	40	0	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.76	9.7	55	4.4	5.1	44	75	39	11	63	43	57	50	116	193	38	0.2	2		

North Carolina
Tobacco Trust Fund Commission

Reprogramming of the laboratory-information-management system that makes this report possible is being funded through a grant from the North Carolina Tobacco Trust Fund Commission.

Thank you for using agronomic services to manage nutrients and safeguard environmental quality.
- *Steve Troxler, Commissioner of Agriculture*

Sample ID: 4

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	10	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	40	0	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.71	10.2	53	4.8	5.1	42	76	38	11	62	44	58	51	123	204	35	0.2	2		

Sample ID: 5

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	10	20	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	40	30	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.78	10.1	51	4.9	5.1	40	62	37	11	58	42	56	49	117	194	43	0.2	2		

Sample ID: 6

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	20	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	40	30	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.78	10.2	50	5.1	5.0	42	63	36	11	55	40	56	49	108	179	47	0.2	2		

Sample ID: 7

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	10	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	40	10	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.71	10.7	54	5.0	5.0	43	70	39	11	58	43	57	50	111	184	42	0.2	2		

Sample ID: 8

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	10	20	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	50	30	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.69	11.5	55	5.2	5.0	39	62	40	12	59	50	62	55	118	196	41	0.2	2		

Sample ID: 9

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	0	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	0	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.82	9.1	59	3.7	5.2	91	84	43	12	60	44	56	49	98	162	55	0.1	1		

Sample ID: 10

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	0	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	0	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.83	9.1	58	3.9	5.2	73	80	42	11	60	44	56	49	87	144	49	0.2	2		

Sample ID: 11

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	0	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	30	0	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.71	9.1	53	4.2	5.2	47	82	38	11	67	38	53	46	90	149	36	0.3	3		

Sample ID: 12

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	10	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	30	0	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.79	9.1	52	4.4	5.2	45	77	37	11	64	41	54	47	101	168	34	0.3	3		

Sample ID: 13

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	30	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	20	40	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
9.59	0.82	9.3	49	4.7	5.2	51	58	36	10	61	37	52	45	110	183	43	0.2	2		

Sample ID: 14

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	20	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	40	30	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.81	9.8	55	4.4	5.2	44	62	40	12	62	42	55	48	114	189	45	0.3	3		

Sample ID: 15

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	0	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	40	0	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.73	10.5	47	5.5	5.0	43	88	33	10	68	41	57	50	102	169	33	0.3	3		

Sample ID: 16

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	10	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	30	10	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.72	11.3	45	6.2	5.0	49	70	32	10	64	41	57	50	113	187	35	0.3	3		

Sample ID: 17

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	10	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	0	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
8.54	0.81	9.2	64	3.3	5.5	101	75	46	14	64	26	41	34	71	118	62	0.3	3		

Sample ID: 18

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	20	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	10	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
8.86	0.84	8.6	66	3.0	5.4	90	68	47	15	70	32	46	39	70	116	58	0.3	3		

Sample ID: 19

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	10	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	10	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
9.21	0.84	9.4	55	4.2	5.2	74	70	40	12	66	29	47	40	71	118	52	0.2	2		

Sample ID: 20

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	20	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	30	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
9.21	0.81	9.2	64	3.3	5.3	62	63	46	14	68	33	47	40	85	141	56	0.2	2		

Sample ID: 21

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	40	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	10	50	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
9.21	0.82	8.2	60	3.3	5.1	56	54	43	14	68	34	50	43	95	158	57	0.3	4		

Sample ID: 22

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	30	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	30	30	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.75	10.6	53	5.0	5.0	46	61	37	13	66	35	52	45	129	214	49	0.3	3		

Sample ID: 23

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	10	20	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	50	20	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.72	9.8	57	4.2	5.0	39	66	40	14	68	36	54	47	125	208	31	0.3	3		

Sample ID: 24

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	20	20	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	50	20	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO_3-N
10.00	0.67	10.5	53	4.9	5.0	37	66	37	13	64	35	53	46	116	193	30	0.3	3		

Understanding the Soil Report: explanation of measurements, abbreviations and units

Recommendations

Lime

If testing finds that soil pH is too low for the crop(s) indicated, a ***lime recommendation*** will be given in units of either ton/acre or lb/1000 sq ft. For best results, mix the lime into the top 6 to 8 inches of soil several months before planting. For no-till or established plantings where this is not possible, apply no more than 1 to 1.5 ton/acre (50 lb/1000 sq ft) at one time, even if the report recommends more. You can apply the rest in similar increments every six months until the full rate is applied. If MG is recommended and lime is needed, use dolomitric lime.

Fertilizer

Recommendations ***for field crops or other large areas*** are listed separately for each nutrient to be added (in units of lb/acre unless otherwise specified). Recommendations for N (and sometimes for B) are based on research/field studies for the crop being grown, not on soil test results. K-I and P-I values are based on test results and should be > 50. If they are not, follow the fertilizer recommendations given. If Mg is needed and no lime is recommended, 0-0-22 (11.5% Mg) is an excellent source; 175 to 250 lb per acre alone or in a fertilizer blend will usually satisfy crop needs, SS-I levels appear only on reports for greenhouse soil or problem samples.

Farmers and other commercial producers should pay special attention to ***micronutrient levels***. If *$*, *pH$*, *$pH*, *C* or *Z* notations appear on the soil report, refer to *$Note: Secondary Nutrients and Micronutrients*. In general, homeowners do not need to be concerned about micronutrients. Various crop notes also address lime fertilizer needs; visit ncagr.gov/agronomi/pubs.htm.

Recommendations ***for small areas, such as home lawns/gardens,*** are listed in units of lb/1000 sq ft . If you cannot find the exact fertilizer grade recommended on the report, visit *www.ncagr.gov/agronomi/obpart4.htm#fs* to find information that may help you choose a comparable alternate. For more information, read *A Homeowner's Guide to Fertilizer.*

Test Results

The first seven values [soil class, HM%, W/V, CEC, BS%, Ac and pH] describe the soil and its degree of acidity. The remaining 16 [P-I, K-I, Ca%, Mg%, Mn-I, Mn-AI1, Mn-AI2, Zn-I, Zn-AI, Cu-I, S-I, SS-I, Na, ESP, SS-I, NO_3-N (not routinely available)] indicate levels of plant nutrients or other fertility measurement. Visit *www.ncagr.gov/agronomi/uyrst.htm* for more information.

Report Abbreviations

Ac	exchangeable acidity
B	boron
BS%	% CEC occupied by basic cations
Ca%	% CEC occupied by calcium
CEC	cation exchange capacity
Cu-I	copper index
ESP	exchangeable sodium percent
HM%	percent humic matter
K-I	potassium index
K_2O	potash
Mg%	% CEC occupied by magnesium
MIN	mineral soil class
Mn	manganese
Mn-AI1	Mn-availability index for crop 1
Mn-AI2	Mn-availability index for crop 2
Mn-I	manganese index
M-O	mineral-organic soil class
N	nitrogen
Na	sodium
NO_3-N	nitrate nitrogen
ORG	organic soil class
pH	current soil pH
P-I	phosphorus index
P_2O_5	phosphate
S-I	sulfur index
SS-I	soluble salt index
W/V	weight per volume
Zn-AI	zinc availability index
Zn-I	zinc index

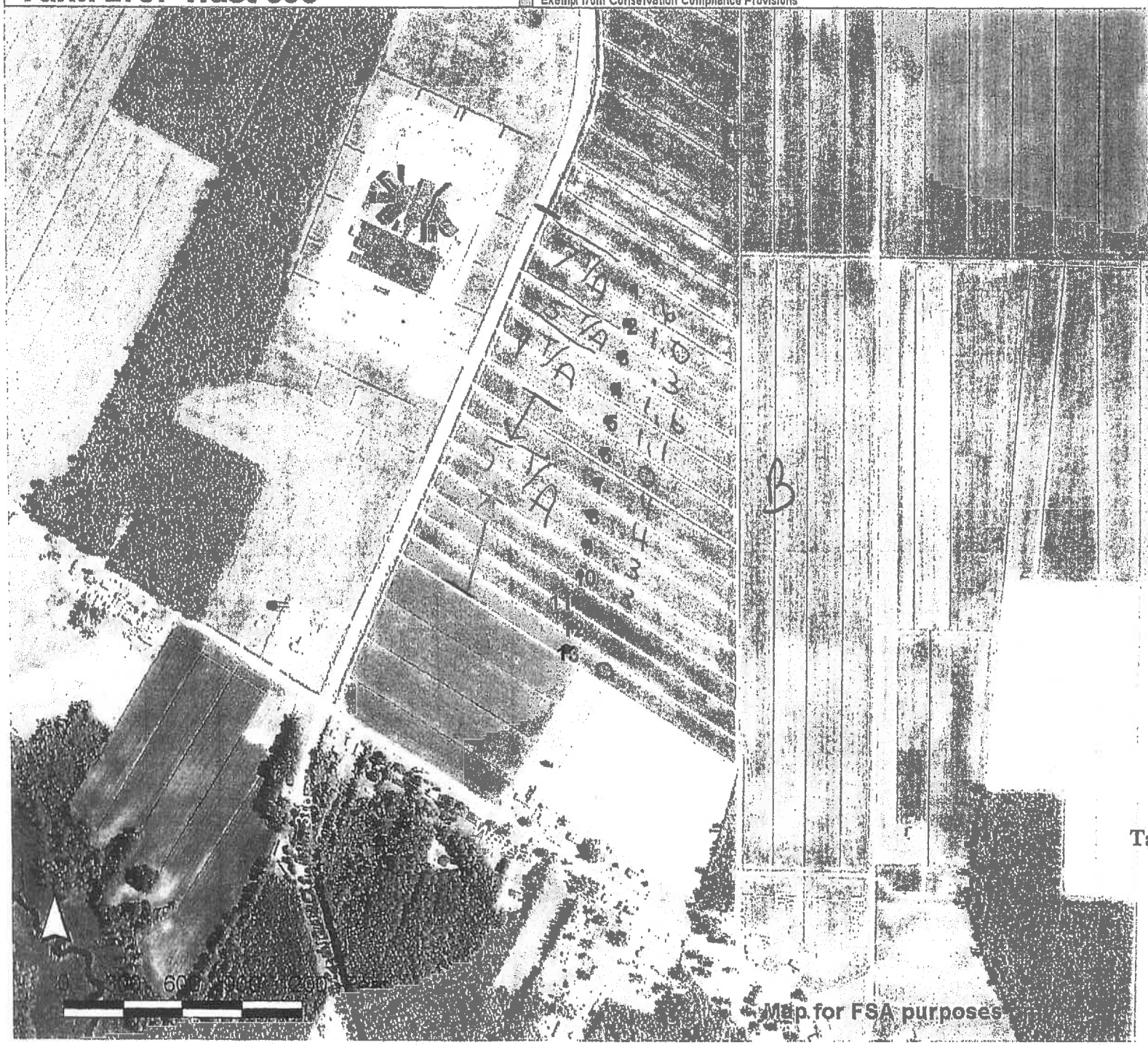
Prison Block between Prison & Silos

Pamlico County FSA
Farm 2797 Tract 593

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

Field	Acres		HEL	CRP
1	3.97		N	
2	4.36		N	
3	4.59		N	
4	4.65		N	
5	5.11		N	
6	4.86		N	
7	5.25		N	
8	5.53		N	
9	5.38		N	
10	5.42		N	
11	4.97		N	
12	5.08		N	
13	5.00		N	



Total Cropland Acres
64.2

Farm 2797 Tract 700

Wetland Determination Ident

- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

	Acres		HEL	CRP
1	5.23		N	
2	5.27		N	
3	4.63		N	
4	3.50		N	

2014 Conn

1A
2A
3A
4A

Map H03 - 44

Total Cropland Acres
18.6

Pamlico County FSA

Farm 2266 Tract 727

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026) for exact boundaries and determinations, or contact NRCS.

Total Cropland Acres
277.7

Tax Map H03-4

Map for FSA purposes only

1	13.05		N	
2	9.48		N	
3	10.23		N	
4	10.23		N	
5	9.29		N	
6	11.87		N	
7	11.69		N	
8	9.24		N	
9	7.65		N	
10	9.96		N	
11	9.81		N	
12	7.62		N	
13	9.78		N	
14	6.03		N	
15	5.72		N	
16	5.80		N	
17	5.16		N	
18	5.10		N	
19	3.15		N	
20	3.82		N	
21	3.72		N	
22	3.88		N	
23	3.83		N	
24	3.71		N	
25	3.64		N	
26	7.42		N	
27	6.97		N	
28	7.18		N	
29	7.49		N	
30	3.94		N	
31	6.37		N	
32	12.97		N	
33	8.97		N	
34	4.71		N	
35	4.75		N	
36	2.04		N	
37	7.05		N	
38	2.34		N	
39	3.76		N	
40	0.61		N	
41	2.20		N	
42	2.45		N	
43	1.83		N	
45	1.23		N	

277 13 / 290

Blue House

Pamlico County FSA
Farm 2797 Tract 593

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

	Acres	Crop	HEL	CRP
1	3.97		N	
2	4.36		N	
3	4.59		N	
4	4.65		N	
5	5.11		N	
6	4.86		N	
7	5.25		N	
8	5.53		N	
9	5.38		N	
10	5.42		N	
11	4.97		N	
12	5.08		N	
13	5.00		N	

279.6
64.7
18
362A

38	.9	441.3
39	.7	450
40	.8	
41	.8	6T/A
42	.8	
43	.6	

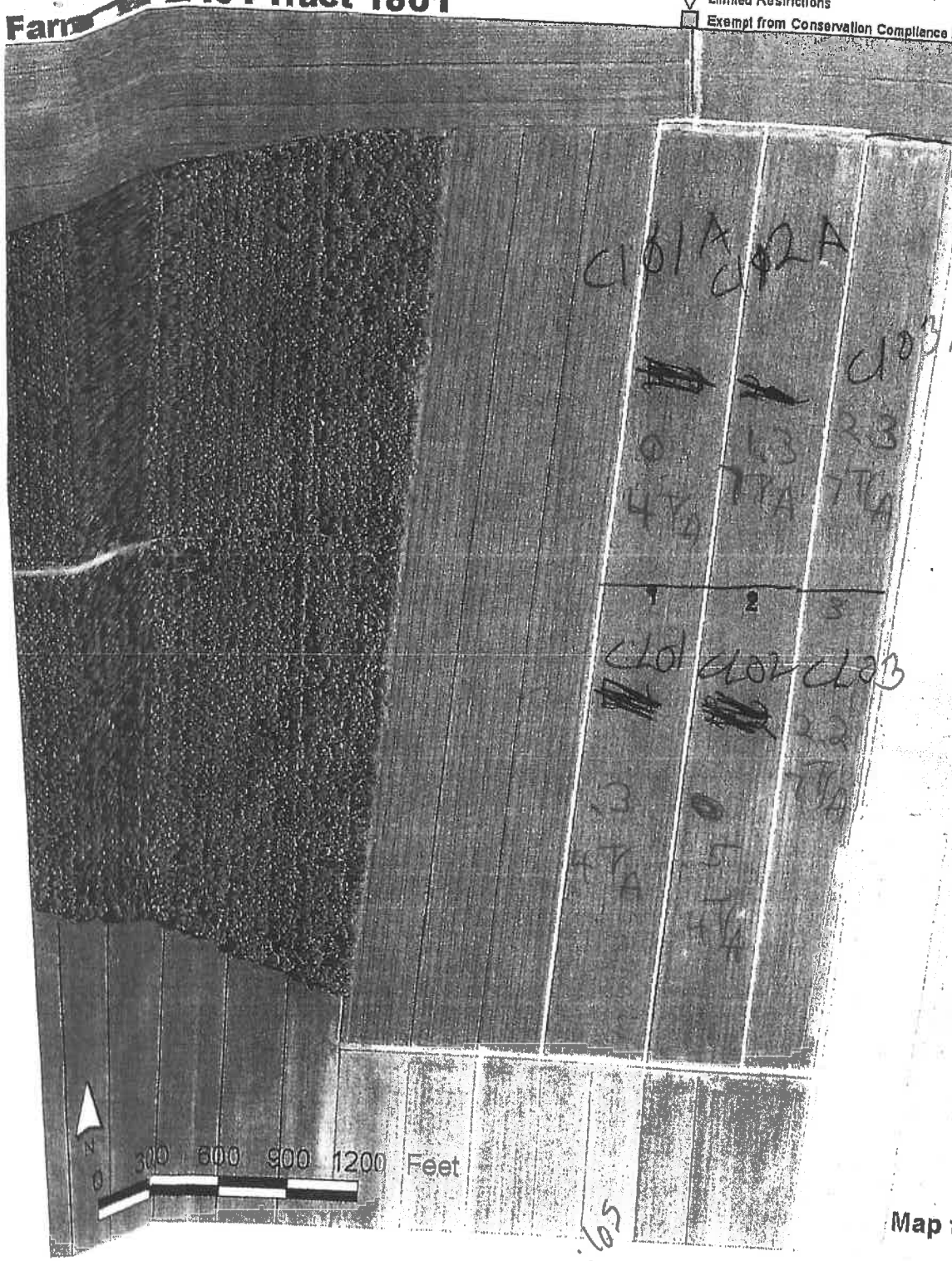
Total Cropland Acres
64.2

Pam
Farm 2434 Tract 1801

Restricted Use
Limited Restrictions
Exempt from Conservation Compliance Provisions

Disclaimer: Wetland Identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

	Acres		HEL
1	39.06		N
2	37.08		N



1a
2a
1a1
2a2

2014
Corn

5.16 fields 180 ac corn

5.165

Tax Map H03 - 29

Map for FSA purposes only

Total Cropland Acres
76.1

Graven Ag

Waters Agricultural Laboratories, Inc.

2101 Calhoun Rd. Hwy 81 Owensboro, KY 42301
(270) 685-4039 FAX (270) 685-3989

FORREST FARM SUPPLY
502 MAIN STREET
BAYBORO, NC 28515

Soil Analysis Report
NCDA Index

Grower: OWEN PEELE
Field ID: NEW LAND

Account#: 60032
Received: 1/15/2014
Processed: 1/17/2014

Lab Number	Sample ID	P-I	K-I	Mg%	Ca%	Water pH	Ac	S-I	Zn-I	Zn-AI	Mn-I	Mn-AI	Cu-I	CEC	BS%	HM%	Soil Class
144163ZO	B01	65	85	4.6	32.2	5.3	4.0	45	84	105	18	35	89	13.3	40.0	3.67	M-O
Recommendations - lbs./A		Lime-Tons/A		N		P2O5		K2O		Mg	S	Cu	Zn	B		Mn	See Note
Crop CORN GRAIN		0.6		160		20		0		0	0	0	0			0	3
144164ZO	B02	54	73	4.6	29.3	5.1	3.6	43	106	133	15	34	52	11.4	37.1	4.23	M-O
Recommendations - lbs./A		Lime-Tons/A		N		P2O5		K2O		Mg	S	Cu	Zn	B		Mn	See Note
Crop CORN GRAIN		1.0		160		20		20		0	0	0	0			0	3
144165ZO	B03	51	82	5.3	32.6	5.4	3.6	41	51	64	12	32	78	12.3	41.3	3.47	M-O
Recommendations - lbs./A		Lime-Tons/A		N		P2O5		K2O		Mg	S	Cu	Zn	B		Mn	See Note
Crop CORN GRAIN		0.3		160		30		20		0	0	0	0			0	3
144166ZO	B04	44	73	5.9	32.9	5.5	3.6	40	43	43	12	24	72	12.4	41.8	3.21	MIN
Recommendations - lbs./A		Lime-Tons/A		N		P2O5		K2O		Mg	S	Cu	Zn	B		Mn	See Note
Crop CORN GRAIN		1.6		160		30		20		0	0	0	0			10	3
144167ZO	B05	43	72	7.2	35.9	5.7	3.2	43	41	41	18	28	78	11.9	46.1	2.73	MIN
Recommendations - lbs./A		Lime-Tons/A		N		P2O5		K2O		Mg	S	Cu	Zn	B		Mn	See Note
Crop CORN GRAIN		1.1		160		30		20		0	0	0	0			0	3
144168ZO	B06	47	76	9.2	54.9	6	1.6	45	41	41	18	28	84	10.0	68.0	2.47	MIN
Recommendations - lbs./A		Lime-Tons/A		N		P2O5		K2O		Mg	S	Cu	Zn	B		Mn	See Note
Crop CORN GRAIN		0.0		160		30		20		0	0	0	0			0	3
144169ZO	B07	49	68	10.3	52.4	5.8	1.6	42	43	43	25	32	88	9.5	66.4	2.41	MIN
Recommendations - lbs./A		Lime-Tons/A		N		P2O5		K2O		Mg	S	Cu	Zn	B		Mn	See Note
Crop CORN GRAIN		0.4		160		30		20		0	0	0	0			0	3
144170ZO	B08	56	72	8.6	51.5	5.8	1.6	41	49	49	25	32	118	8.9	64.2	2.32	MIN
Recommendations - lbs./A		Lime-Tons/A		N		P2O5		K2O		Mg	S	Cu	Zn	B		Mn	See Note
Crop CORN GRAIN		0.4		160		20		20		0	0	0	0			0	3

Fertilizer recommendations are based on the philosophy and recommendations of the NCDA Agronomic Division

DWQ Laboratory Certification Number 635

Waters Agricultural Laboratories, Inc.

2101 Calhoun Rd. Hwy 81 Owensboro, KY 42301
(270) 685-4039 FAX (270) 685-3989

FORREST FARM SUPPLY
502 MAIN STREET
BAYBORO, NC 28515

Soil Analysis Report
NCDA Index

Grower: OWEN PEELE
Field ID: NEW LAND

Account#: 60032
Received: 1/15/2014
Processed: 1/17/2014

Lab Number	Sample ID	P-I	K-I	Mg%	Ca%	Water pH	Ac	S-I	Zn-I	Zn-AI	Mn-I	Mn-AI	Cu-I	CEC	BS%	HM%	Soil Class
144171ZO	B09	41	63	8.4	54.5	5.8	1.2	36	57	57	28	34	99	7.3	67.2	1.80	MIN
Recommendations - lbs./A		Lime-Tons/A		N		P2O5		K2O		Mg	S	Cu	Zn	B		Mn	See Note
Crop CORN GRAIN		0.3		160		40		30		0	0	0	0			0	3
144172ZO	B10	46	66	8.6	56.8	5.9	1.2	32	66	66	34	37	113	7.9	69.6	1.74	MIN
Recommendations - lbs./A		Lime-Tons/A		N		P2O5		K2O		Mg	S	Cu	Zn	B		Mn	See Note
Crop CORN GRAIN		0.3		160		30		30		0	0	0	0			0	3
144173ZO	B11	47	61	9.4	62.6	6	0.8	27	63	63	28	34	107	6.8	76.4	1.83	MIN
Recommendations - lbs./A		Lime-Tons/A		N		P2O5		K2O		Mg	S	Cu	Zn	B		Mn	See Note
Crop CORN GRAIN		0.0		160		30		30		0	0	0	0			0	3
144174ZO	B12	37	57	8.6	56.7	6.1	1.2	26	101	101	25	30	118	7.7	69.0	2.36	MIN
Recommendations - lbs./A		Lime-Tons/A		N		P2O5		K2O		Mg	S	Cu	Zn	B		Mn	See Note
Crop CORN GRAIN		0.0		160		60		40		0	0	0	0			0	3
144175ZO	B13	31	49	9.6	62.1	6.1	0.8	25	104	104	25	30	114	6.5	75.6	1.62	MIN
Recommendations - lbs./A		Lime-Tons/A		N		P2O5		K2O		Mg	S	Cu	Zn	B		Mn	See Note
Crop CORN GRAIN		0.0		160		70		40		0	20	0	0			0	3
144176ZO	C01	105	56	5.3	41.1	5.3	3.2	32	165	206	46	52	60	12.5	48.6	4.94	M-O
Recommendations - lbs./A		Lime-Tons/A		N		P2O5		K2O		Mg	S	Cu	Zn	B		Mn	See Note
Crop CORN GRAIN		0.5		160		0		40		0	0	0	0			0	3
144177ZO	C02	93	57	7.1	42.9	5.4	3.2	30	223	370	37	48	48	13.4	52.2	6.22	O
Recommendations - lbs./A		Lime-Tons/A		N		P2O5		K2O		Mg	S	Cu	Zn	B		Mn	See Note
Crop CORN GRAIN		0.0		160		0		40		0	0	0	0			0	3
144178ZO	C03	88	56	6.0	37.9	5.2	3.6	30	171	284	46	57	46	13.3	46.0	7.47	O
Recommendations - lbs./A		Lime-Tons/A		N		P2O5		K2O		Mg	S	Cu	Zn	B		Mn	See Note
Crop CORN GRAIN		0.0		160		0		40		0	0	0	0			0	3

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FORREST FARM SUPPLY
502 MAIN STREET
BAYBORO, NC 28515

Soil Analysis Report
NCDA Index

Grower: OWEN PEELE
Field ID: NEW LAND

Account#: 60032
Received: 1/15/2014
Processed: 1/17/2014

Lab Number	Sample ID	P-I	K-I	Mg%	Ca%	Water pH	Ac	S-I	Zn-I	Zn-Al	Mn-I	Mn-Al	Cu-I	CEC	BS%	HM%	Soil Class
144179ZO	C04	103	54	5.5	37.2	5.2	3.6	31	150	249	53	61	45	13.0	44.8	5.32	O
Recommendations - lbs./A		Lime-Tons/A		N		P2O5		K2O		Mg	S	Cu	Zn	B		Mn	See Note
Crop CORN GRAIN		0.0		160		0		40		0	0	0	0			0	3
144180ZO	C05	97	50	5.8	37.9	5.2	4.0	31	226	283	56	58	54	14.7	45.4	4.55	M-O
Recommendations - lbs./A		Lime-Tons/A		N		P2O5		K2O		Mg	S	Cu	Zn	B		Mn	See Note
Crop CORN GRAIN		0.9		160		0		40		0	0	0	0			0	3
144181ZO	C06	102	47	8.5	42.1	5.3	3.2	32	244	305	59	60	52	13.4	52.4	4.09	M-O
Recommendations - lbs./A		Lime-Tons/A		N		P2O5		K2O		Mg	S	Cu	Zn	B		Mn	See Note
Crop CORN GRAIN		0.5		160		0		50		0	0	0	0			0	3
144182ZO	C07	73	43	6.3	34.7	5.1	4.0	30	200	250	53	56	44	13.9	42.6	4.97	M-O
Recommendations - lbs./A		Lime-Tons/A		N		P2O5		K2O		Mg	S	Cu	Zn	B		Mn	See Note
Crop CORN GRAIN		1.1		160		0		50		0	0	0	0			0	3
144183ZO	C08	74	50	6.5	42.2	5.3	3.2	32	143	179	43	50	54	13.0	50.7	4.59	M-O
Recommendations - lbs./A		Lime-Tons/A		N		P2O5		K2O		Mg	S	Cu	Zn	B		Mn	See Note
Crop CORN GRAIN		0.5		160		0		40		0	0	0	0			0	3

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FORREST FARM SUPPLY
502 MAIN STREET
BAYBORO, NC 28515

Soil Analysis Report
NCDA Index

Grower: OWEN PEELE
Field ID: NEW LAND

Account#: 60032
Received: 1/15/2014
Processed: 1/17/2014

Lab Number	Sample ID	P-I	K-I	Mg%	Ca%	Water pH	Ac	S-I	Zn-I	Zn-Al	Mn-I	Mn-Al	Cu-I	CEC	BS%	HM%	Soil Class
144041ZO	C09	76	56	5.3	58.1	5.6	2.0	36	70	88	21	36	45	11.7	65.8	4.67	M-O
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn	B		Mn		See Note
Crop CORN GRAIN		0.0		160	0		40		0	0	0	0			0		3
144042ZO	C10	33	39	6.3	38.4	5.3	3.6	32	68	113	25	43	21	13.4	46.1	6.02	O
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn	B		Mn		See Note
Crop CORN GRAIN		0.0		160	30		60		0	0	6	0			0		3
144043ZO	C11	45	36	6.4	40.8	5.3	3.2	37	65	108	18	38	23	12.4	48.6	5.79	O
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn	B		Mn		See Note
Crop CORN GRAIN		0.0		160	0		70		0	0	6	0			0		3
144044ZO	C12	50	37	8.0	33.1	5.2	3.6	38	111	184	25	44	24	12.5	42.6	5.54	O
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn	B		Mn		See Note
Crop CORN GRAIN		0.0		160	0		70		0	0	6	0			0		3
144045ZO	C13	60	34	8.4	36.0	5.3	3.6	37	109	181	28	44	30	13.3	45.7	6.60	O
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn	B		Mn		See Note
Crop CORN GRAIN		0.0		160	0		70		0	0	0	0			0		3
144046ZO	C14	46	36	7.8	37.7	5.1	3.6	32	90	149	34	51	40	13.5	46.8	6.53	O
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn	B		Mn		See Note
Crop CORN GRAIN		0.0		160	0		70		0	0	0	0			0		3
144047ZO	C15	135	51	6.4	37.7	5	3.6	38	137	227	56	66	54	13.3	46.0	6.36	O
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn	B		Mn		See Note
Crop CORN GRAIN		0.0		160	0		40		0	0	0	0			0		3
144048ZO	C16	130	48	5.1	32.7	4.9	4.0	38	146	183	50	55	63	13.3	39.6	4.09	M-O
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn	B		Mn		See Note
Crop CORN GRAIN		1.4		160	0		40		0	0	0	0			0		3

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FORREST FARM SUPPLY
502 MAIN STREET
BAYBORO, NC 28515

Soil Analysis Report
NCDA Index

Grower: OWEN PEELE
Field ID: NEW LAND

Account#: 60032
Received: 1/15/2014
Processed: 1/17/2014

Lab Number	Sample ID	P-I	K-I	Mg%	Ca%	Water pH	Ac	S-I	Zn-I	Zn-AI	Mn-I	Mn-AI	Cu-I	CEC	BS%	HM%	Soil Class
144049ZO	C17	130	34	5.1	37.2	5.1	3.2	38	118	196	40	55	73	11.4	43.8	5.56	O
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn	B		Mn		See Note
Crop CORN GRAIN		0.0		160	0		70		0	0	0	0			0		3
144050ZO	C18	148	65	6.2	59.9	5.9	2.6	43	132	165	25	34	97	16.3	68.1	4.99	M-O
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn	B		Mn		See Note
Crop CORN GRAIN		0.0		160	0		30		0	0	0	0			0		3
144051ZO	C19	90	48	9.0	42.7	5.1	3.2	30	173	287	40	55	75	13.7	53.4	5.95	O
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn	B		Mn		See Note
Crop CORN GRAIN		0.0		160	0		40		0	0	0	0			0		3
144052ZO	C20	78	50	7.9	40.0	5.1	3.6	38	163	271	43	56	68	14.3	49.7	5.71	O
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn	B		Mn		See Note
Crop CORN GRAIN		0.0		160	0		40		0	0	0	0			0		3
144053ZO	C21	78	53	6.8	36.8	5.1	4.0	33	134	222	43	56	64	14.7	45.5	6.76	O
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn	B		Mn		See Note
Crop CORN GRAIN		0.0		160	0		40		0	0	0	0			0		3
144054ZO	C22	97	51	6.7	35.6	5	4.0	36	142	236	40	56	60	14.3	44.1	7.76	O
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn	B		Mn		See Note
Crop CORN GRAIN		0.0		160	0		40		0	0	0	0			0		3
144055ZO	C23	95	42	7.0	34.3	5	3.6	36	112	140	40	49	80	12.6	43.1	5.03	M-O
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn	B		Mn		See Note
Crop CORN GRAIN		1.1		160	0		60		0	0	0	0			0		3
144056ZO	C24	93	47	7.3	33.2	5	4.0	45	119	149	34	45	55	13.8	42.1	4.84	M-O
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn	B		Mn		See Note
Crop CORN GRAIN		1.3		160	0		50		0	0	0	0			0		3

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FORREST FARM SUPPLY
502 MAIN STREET
BAYBORO, NC 28515

Soil Analysis Report
NCDA Index

Grower: OWEN PEELE
Field ID: NEW LAND

Account#: 60032
Received: 1/15/2014
Processed: 1/17/2014

Lab Number	Sample ID	P-I	K-I	Mg%	Ca%	Water pH	Ac	S-I	Zn-I	Zn-AI	Mn-I	Mn-AI	Cu-I	CEC	BS%	HM%	Soil Class
144057ZO	C25	104	69	6.8	35.4	5.1	3.2	43	96	120	34	45	59	11.7	45.2	4.43	M-O
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn	B		Mn		See Note
Crop CORN GRAIN		0.9		160	0		20		0	0	0	0			0		3
144058ZO	C26	88	60	8.9	38.1	5.6	2.4	40	48	48	21	30	83	9.6	50.1	2.60	MIN
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn	B		Mn		See Note
Crop CORN GRAIN		1.0		160	0		30		0	0	0	0			0		3
144059ZO	C27	95	84	7.7	38.0	5.5	2.6	45	49	49	28	34	94	10.4	49.8	2.77	MIN
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn	B		Mn		See Note
Crop CORN GRAIN		1.2		160	0		0		0	0	0	0			0		3
144060ZO	C28	94	71	9.1	42.8	5.5	2.4	37	33	33	18	28	89	10.7	55.2	2.91	MIN
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn	B		Mn		See Note
Crop CORN GRAIN		1.1		160	0		20		0	0	0	0			0		3
144061ZO	C29	100	85	6.9	39.4	5.4	2.8	41	37	37	21	30	85	11.2	50.1	3.16	MIN
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn	B		Mn		See Note
Crop CORN GRAIN		1.4		160	0		0		0	0	0	0			0		3
144062ZO	C30	77	41	5.1	29.5	5.3	3.6	38	25	25	28	34	69	11.3	36.4	3.07	MIN
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn	B		Mn		See Note
Crop CORN GRAIN		1.9		160	0		60		0	0	0	6			0		3
144063ZO	C31	80	64	4.6	25.2	5.2	4.0	46	29	29	28	34	65	11.9	32.5	2.64	MIN
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn	B		Mn		See Note
Crop CORN GRAIN		2.3		160	0		30		0	0	0	0			0		3
144064ZO	C32	62	69	7.6	38.6	5.4	2.8	33	38	48	18	35	55	11.1	49.4	4.10	M-O
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn	B		Mn		See Note
Crop CORN GRAIN		0.3		160	20		20		0	0	0	0			0		3

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Soil Analysis Report
NCDA Index

Grower: OWEN PEELE
Field ID: NEW LAND

Account#: 60032
Received: 1/15/2014
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Lab Number	Sample ID	P-I	K-I	Mg%	Ca%	Water pH	Ac	S-I	Zn-I	Zn-Al	Mn-I	Mn-Al	Cu-I	CEC	BS%	HM%	Soil Class
144153ZO	CL02	143	70	6.0	29.4	5.3	3.2	55	60	75	31	43	82	10.5	38.9	4.17	M-O
Recommendations - lbs./A		Lime-Tons/A		N		P2O5		K2O		Mg	S	Cu	Zn	B		Mn	See Note
Crop CORN GRAIN		0.5		160		0		20		0	0	0	0			0	3
144154ZO	CL02A	110	58	5.5	26.0	5	4.0	42	101	126	21	37	93	12.1	33.9	3.90	M-O
Recommendations - lbs./A		Lime-Tons/A		N		P2O5		K2O		Mg	S	Cu	Zn	B		Mn	See Note
Crop CORN GRAIN		1.3		160		0		30		0	0	0	0			0	3
144155ZO	CL03	144	64	5.2	24.5	5.3	4.0	56	49	49	25	32	79	11.8	32.5	2.66	MIN
Recommendations - lbs./A		Lime-Tons/A		N		P2O5		K2O		Mg	S	Cu	Zn	B		Mn	See Note
Crop CORN GRAIN		2.2		160		0		30		0	0	0	0			0	3
144156ZO	CL03A	114	66	5.8	28.5	5.2	4.0	46	90	90	25	32	48	12.7	36.9	1.27	MIN
Recommendations - lbs./A		Lime-Tons/A		N		P2O5		K2O		Mg	S	Cu	Zn	B		Mn	See Note
Crop CORN GRAIN		2.3		160		0		30		0	0	0	0			0	3
144159ZO	A01	82	64	7.8	48.0	6.1	2.6	41	42	42	37	38	71	12.5	58.4	2.21	MIN
Recommendations - lbs./A		Lime-Tons/A		N		P2O5		K2O		Mg	S	Cu	Zn	B		Mn	See Note
Crop CORN GRAIN		0.0		160		0		30		0	0	0	0			0	3
144160ZO	A02	92	86	6.5	39.6	5.5	2.8	41	45	45	21	30	65	11.2	50.0	2.81	MIN
Recommendations - lbs./A		Lime-Tons/A		N		P2O5		K2O		Mg	S	Cu	Zn	B		Mn	See Note
Crop CORN GRAIN		1.3		160		0		0		0	0	0	0			0	3
144161ZO	A03	65	50	7.0	47.2	5.8	2.4	40	56	56	25	32	67	11.0	56.5	1.88	MIN
Recommendations - lbs./A		Lime-Tons/A		N		P2O5		K2O		Mg	S	Cu	Zn	B		Mn	See Note
Crop CORN GRAIN		0.6		160		20		40		0	0	0	0			0	3
144162ZO	A04	62	43	8.3	51.2	6	2.0	36	44	44	25	32	76	10.4	61.6	1.91	MIN
Recommendations - lbs./A		Lime-Tons/A		N		P2O5		K2O		Mg	S	Cu	Zn	B		Mn	See Note
Crop CORN GRAIN		0.0		160		20		50		0	0	0	0			0	3

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Soil Analysis Report
NCDA Index

Grower: OWEN PEELE
Field ID: NEW LAND

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Received: 1/15/2014
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Lab Number	Sample ID	P-I	K-I	Mg%	Ca%	Water pH	Ac	S-I	Zn-I	Zn-Al	Mn-I	Mn-Al	Cu-I	CEC	BS%	HM%	Soil Class
144065ZO	C33	72	34	10.6	45.7	5.5	1.2	30	51	51	25	32	124	5.9	59.2	1.52	MIN
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn	B		Mn		See Note
Crop CORN GRAIN		0.6		160	20		70		0	0	0	0			0		3
144138ZO	C33A	63	38	12.1	49.0	5.8	1.2	38	60	60	34	37	138	6.7	64.0	1.62	MIN
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn	B		Mn		See Note
Crop CORN GRAIN		0.3		160	20		60		0	0	0	0			0		3
144139ZO	C34	106	41	8.4	43.9	5.7	1.6	36	116	116	37	39	158	7.2	55.3	1.77	MIN
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn	B		Mn		See Note
Crop CORN GRAIN		0.5		160	0		60		0	0	0	0			0		3
144140ZO	C35	139	67	8.9	51.8	5.7	1.2	40	60	60	46	45	152	7.0	65.5	1.66	MIN
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn	B		Mn		See Note
Crop CORN GRAIN		0.4		160	0		30		0	0	0	0			0		3
144141ZO	C36	81	36	5.3	37.7	5.4	2.8	47	45	45	31	36	73	10.2	44.8	2.03	MIN
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn	B		Mn		See Note
Crop CORN GRAIN		1.4		160	0		70		0	0	0	0			0		3
144142ZO	C37	77	37	8.6	35.4	5.7	2.6	35	35	35	25	32	97	9.6	45.9	1.65	MIN
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn	B		Mn		See Note
Crop CORN GRAIN		0.9		160	0		70		0	0	0	0			0		3
144143ZO	C38	99	34	7.3	37.4	5.3	1.6	37	61	61	46	45	123	6.1	47.4	1.45	MIN
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn	B		Mn		See Note
Crop CORN GRAIN		0.9		160	0		70		$	0	0	0			0		3
144144ZO	C39	82	22	7.1	34.9	5.3	1.2	30	41	41	37	39	92	4.3	44.6	1.51	MIN
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn	B		Mn		See Note
Crop CORN GRAIN		0.7		160	0		100		$	0	0	0			0		3

Fertilizer recommendations are based on the philosophy and recommendations of the NCDA Agronomic Division

DWQ Laboratory Certification Number 635

Waters Agricultural Laboratories, Inc.

2101 Calhoun Rd. Hwy 81 Owensboro, KY 42301
(270) 685-4039 FAX (270) 685-3989

FORREST FARM SUPPLY
502 MAIN STREET
BAYBORO, NC 28515

Soil Analysis Report
NCDA Index

Grower: OWEN PEELE
Field ID: NEW LAND

Account#: 60032
Received: 1/15/2014
Processed: 1/17/2014

Lab Number	Sample ID	P-I	K-I	Mg%	Ca%	Water pH	Ac	S-I	Zn-I	Zn-AI	Mn-I	Mn-AI	Cu-I	CEC	BS%	HM%	Soil Class
144145ZO	C40	95	31	8.3	39.5	5.4	1.6	32	63	63	31	36	137	6.4	50.2	1.54	MIN
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn		B	Mn		See Note
Crop CORN GRAIN		0.8		160	0		80		0	0	0	0			0		3
144146ZO	C41	94	32	8.2	39.3	5.4	1.6	36	66	66	31	36	137	6.4	50.1	1.60	MIN
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn		B	Mn		See Note
Crop CORN GRAIN		0.8		160	0		80		0	0	0	0			0		3
144147ZO	C42	93	36	8.4	39.4	5.4	1.6	37	71	71	31	36	136	6.5	50.6	1.60	MIN
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn		B	Mn		See Note
Crop CORN GRAIN		0.8		160	0		70		0	0	0	0			0		3
144148ZO	C43	84	36	9.9	44.6	5.5	1.2	31	61	61	37	39	124	5.7	57.7	1.67	MIN
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn		B	Mn		See Note
Crop CORN GRAIN		0.6		160	0		70		0	0	0	0			0		3
144149ZO	C44	111	72	10.2	40.0	5.4	2.6	42	70	70	31	36	95	11.2	53.4	2.71	MIN
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn		B	Mn		See Note
Crop CORN GRAIN		1.3		160	0		20		0	0	0	0			0		3
144150ZO	C45	45	25	3.0	88.9	7.6	0.6	41	117	117	43	18	120	16.3	92.6	1.94	MIN
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn		B	Mn		See Note
Crop CORN GRAIN		0.0		160	30		90		$	0	0	0			$pH		3
144151ZO	CL01	127	70	5.0	35.7	5.4	4.0	57	68	85	25	40	70	14.1	43.2	3.72	M-O
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn		B	Mn		See Note
Crop CORN GRAIN		0.3		160	0		20		0	0	0	0			0		3
144152ZO	CL01A	103	50	8.4	31.2	5.2	3.6	47	111	184	28	46	62	12.3	41.6	5.90	O
Recommendations - lbs./A		Lime-Tons/A		N	P2O5		K2O		Mg	S	Cu	Zn		B	Mn		See Note
Crop CORN GRAIN		0.0		160	0		40		0	0	0	0			0		3

Fertilizer recommendations are based on the philosophy and recommendations of the NCDA Agronomic Division

DWQ Laboratory Certification Number 635

Pamlico County FSA
Farm 2860 Tract 1320

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

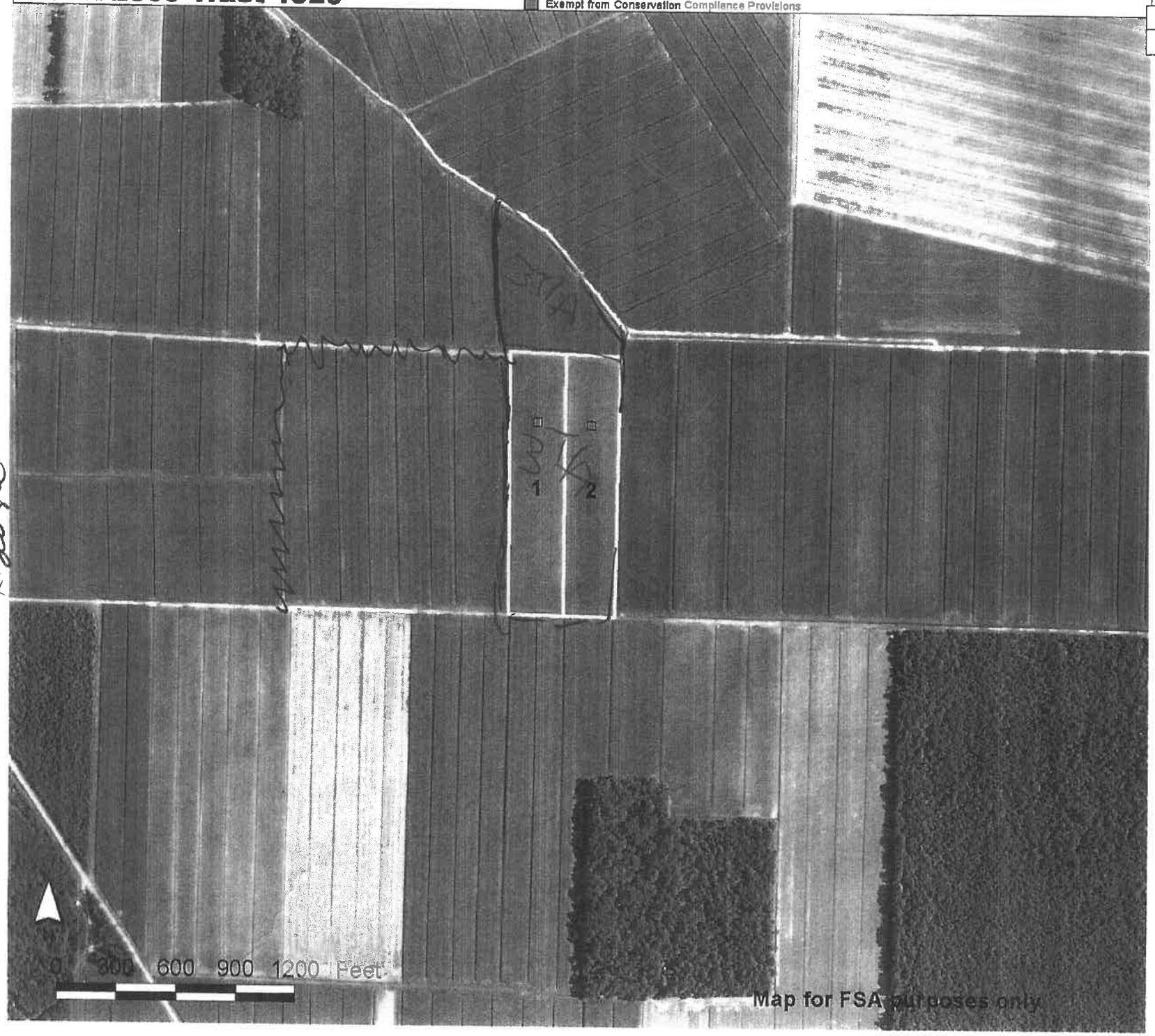
Field	Acres	Crop	HEL
1	8.23		N
2	7.83		N

3, 4, 5 } 10 ac

3 T/A

16.1
10.0
26.1 acres

House farm
go up field
Road @
ditch



Total Cropland Acr
16.1

NCDA&CS Agronomic Division Phone: (919) 733-2655 Website: www.ncagr.gov/agronomi/ Report No. FY14-SL019890

Predictive

Soil Report

Mehlich-3 Extraction

Client: Owen (OWP) Peele
282 Peele Rd.
Aurora, NC 278069603

Sampled County : Pamlico

Advisor: Sarah Arthur, LLC
3780 Hwy 58 N
Trenton, NC 28585

Sampled: 11/16/2013 **Received:** 11/18/2013 **Completed:** 12/18/2013 **Farm:** UWL

Links to Helpful Information

Sample ID: 1

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	20	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	10	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral-Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
4.09	0.88	14.1	88	1.6	6.3	110	68	73	13	61	45	39	32	122	153	125	0.2	1		

Sample ID: 2

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	20	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	20	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral-Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
4.95	0.85	14.8	88	1.7	6.1	78	66	74	12	57	49	45	38	109	136	114	0.3	2		

Sample ID: 3

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	0	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	0	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral-Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
4.44	0.88	13.5	86	1.9	6.1	80	85	71	12	51	47	44	37	121	151	107	0.2	1		

3 T/A

North Carolina Tobacco Trust Fund Commission

Reprogramming of the laboratory-information-management system that makes this report possible is being funded through a grant from the North Carolina Tobacco Trust Fund Commission.

Thank you for using agronomic services to manage nutrients and safeguard environmental quality.
- *Steve Troxler, Commissioner of Agriculture*

Owen (OWP) Peele

Sample ID: 4

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	10	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	0	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
2.44	0.96	13.5	88	1.6	6.2	102	74	74	12	48	51	44	37	138	138	128	0.2	1		

Sample ID: 5

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	20	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	10	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
3.10	0.95	12.6	86	1.7	6.1	95	69	71	13	40	50	46	39	109	109	119	0.1	1		

Sample ID: 6

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	0	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	0	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
5.53	0.88	14.1	86	2.0	6.1	75	86	70	12	43	43	42	35	112	186	108	0.2	1		

Understanding the Soil Report: explanation of measurements, abbreviations and units

Recommendations

Lime

If testing finds that soil pH is too low for the crop(s) indicated, a ***lime recommendation*** will be given in units of either ton/acre or lb/1000 sq ft. For best results, mix the lime into the top 6 to 8 inches of soil several months before planting. For no-till or established plantings where this is not possible, apply no more than 1 to 1.5 ton/acre (50 lb/1000 sq ft) at one time, even if the report recommends more. You can apply the rest in similar increments every six months until the full rate is applied. If MG is recommended and lime is needed, use dolomitric lime.

Fertilizer

Recommendations ***for field crops or other large areas*** are listed separately for each nutrient to be added (in units of lb/acre unless otherwise specified). Recommendations for N (and sometimes for B) are based on research/field studies for the crop being grown, not on soil test results. K-I and P-I values are based on test results and should be > 50. If they are not, follow the fertilizer recommendations given. If Mg is needed and no lime is recommended, 0-0-22 (11.5% Mg) is an excellent source; 175 to 250 lb per acre alone or in a fertilizer blend will usually satisfy crop needs, SS-I levels appear only on reports for greenhouse soil or problem samples.

Farmers and other commercial producers should pay special attention to ***micronutrient levels***. If *$*, *pH$*, *$pH*, *C* or *Z* notations appear on the soil report, refer to *$Note: Secondary Nutrients and Micronutrients*. In general, homeowners do not need to be concerned about micronutrients. Various crop notes also address lime fertilizer needs; visit ncagr.gov/agronomi/pubs.htm.

Recommendations ***for small areas, such as home lawns/gardens,*** are listed in units of lb/1000 sq ft . If you cannot find the exact fertilizer grade recommended on the report, visit *www.ncagr.gov/agronomi/obpart4.htm#fs* to find information that may help you choose a comparable alternate. For more information, read *A Homeowner's Guide to Fertilizer*.

Test Results

The first seven values [soil class, HM%, W/V, CEC, BS%, Ac and pH] describe the soil and its degree of acidity. The remaining 16 [P-I, K-I, Ca%, Mg%, Mn-I, Mn-AI1, Mn-AI2, Zn-I, Zn-AI, Cu-I, S-I, SS-I, Na, ESP, SS-I, NO_3-N (not routinely available)] indicate levels of plant nutrients or other fertility measurement. Visit *www.ncagr.gov/agronomi/uyrst.htm* for more information.

Report Abbreviations

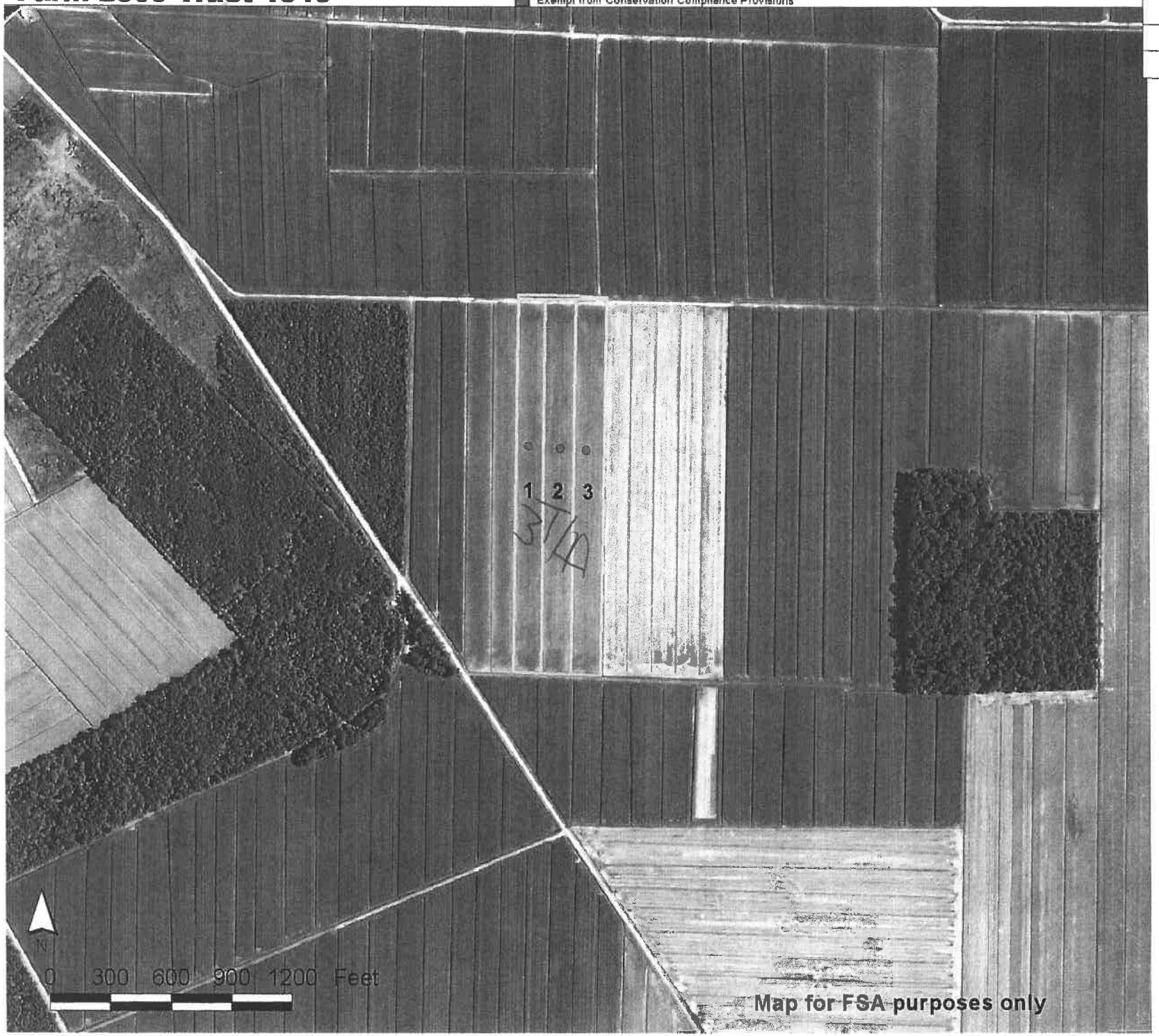
Ac	exchangeable acidity
B	boron
BS%	% CEC occupied by basic cations
Ca%	% CEC occupied by calcium
CEC	cation exchange capacity
Cu-I	copper index
ESP	exchangeable sodium percent
HM%	percent humic matter
K-I	potassium index
K_2O	potash
Mg%	% CEC occupied by magnesium
MIN	mineral soil class
Mn	manganese
Mn-AI1	Mn-availability index for crop 1
Mn-AI2	Mn-availability index for crop 2
Mn-I	manganese index
M-O	mineral-organic soil class
N	nitrogen
Na	sodium
NO_3-N	nitrate nitrogen
ORG	organic soil class
pH	current soil pH
P-I	phosphorus index
P_2O_5	phosphate
S-I	sulfur index
SS-I	soluble salt index
W/V	weight per volume
Zn-AI	zinc availability index
Zn-I	zinc index

Pamlico County FSA
Farm 2860 Tract 1319

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

FSN	Acres	Crop	HEL	CRP
1	5.64		N	
2	6.34		N	
3	6.39		N	



3 T/A

House Farm

~~18~~ 210 acres Total

Total Cropland Acres
18.4

NCDA&CS Agronomic Division Phone: (919) 733-2655 Website: www.ncagr.gov/agronomi/ Report No. FY14-SL019893

Predictive

Soil Report

Mehlich-3 Extraction

Client: Owen (OWP) Peele
282 Peele Rd.
Aurora, NC 278069603

Sampled County : Pamlico

Advisor: Sarah Arthur, LLC
3780 Hwy 58 N
Trenton, NC 28585

Sampled: 11/16/2013 **Received:** 11/18/2013 **Completed:** 12/18/2013 **Farm:** LE 2

Links to Helpful Information

Sample ID: 1

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	20	0	0	pH$	0	0	0	Note: 3 Note: $
2 - SG/Soybean (DC)	0.0	80-100	0	10	0	0	pH$	0	0	0	Note: 3 Note: $

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
1.19	1.03	10.7	96	0.4	6.9	152	69	80	12	41	68	45	38	152	152	150	0.2	2		

Sample ID: 2

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	50	0	0	pH$	0	0	0	Note: 3 Note: $
2 - SG/Soybean (DC)	0.0	80-100	0	90	0	0	pH$	0	0	0	Note: 3 Note: $

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.86	1.05	9.4	93	0.6	6.7	131	42	78	13	37	61	43	36	136	136	127	0.2	2		

Sample ID: 3

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	40	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	70	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
1.25	1.03	8.4	88	1.0	6.3	160	48	74	11	40	56	46	39	96	96	116	0.2	2		

3 ~~4~~ T|A

North Carolina Tobacco Trust Fund Commission

Reprogramming of the laboratory-information-management system that makes this report possible is being funded through a grant from the North Carolina Tobacco Trust Fund Commission.

Thank you for using agronomic services to manage nutrients and safeguard environmental quality.
- *Steve Troxler, Commissioner of Agriculture*

Owen (OWP) Peele

Sample ID: 4

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	50	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	90	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
1.08	1.06	8.9	89	1.0	6.3	158	42	75	12	40	60	48	41	104	104	130	0.2	2		

Sample ID: 5

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	30	0	0	pH$	0	0	0	Note: 3 Note: $
2 - SG/Soybean (DC)	0.0	80-100	0	40	0	0	pH$	0	0	0	Note: 3 Note: $

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
1.43	1.06	11.4	93	0.8	6.6	179	59	77	13	37	71	50	43	169	169	168	0.2	2		

Sample ID: 6

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	50	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	80	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.97	1.06	9.1	89	1.0	6.4	142	45	74	13	29	64	49	42	127	127	132	0.1	1		

Understanding the Soil Report: explanation of measurements, abbreviations and units

Recommendations

Lime

If testing finds that soil pH is too low for the crop(s) indicated, a ***lime recommendation*** will be given in units of either ton/acre or lb/1000 sq ft. For best results, mix the lime into the top 6 to 8 inches of soil several months before planting. For no-till or established plantings where this is not possible, apply no more than 1 to 1.5 ton/acre (50 lb/1000 sq ft) at one time, even if the report recommends more. You can apply the rest in similar increments every six months until the full rate is applied. If MG is recommended and lime is needed, use dolomitric lime.

Fertilizer

Recommendations ***for field crops or other large areas*** are listed separately for each nutrient to be added (in units of lb/acre unless otherwise specified). Recommendations for N (and sometimes for B) are based on research/field studies for the crop being grown, not on soil test results. K-I and P-I values are based on test results and should be > 50. If they are not, follow the fertilizer recommendations given. If Mg is needed and no lime is recommended, 0-0-22 (11.5% Mg) is an excellent source; 175 to 250 lb per acre alone or in a fertilizer blend will usually satisfy crop needs, SS-I levels appear only on reports for greenhouse soil or problem samples.

Farmers and other commercial producers should pay special attention to ***micronutrient levels***. If *$*, *pH$*, *$pH*, *C* or *Z* notations appear on the soil report, refer to *$Note: Secondary Nutrients and Micronutrients*. In general, homeowners do not need to be concerned about micronutrients. Various crop notes also address lime fertilizer needs; visit ncagr.gov/agronomi/pubs.htm.

Recommendations ***for small areas, such as home lawns/gardens,*** are listed in units of lb/1000 sq ft . If you cannot find the exact fertilizer grade recommended on the report, visit *www.ncagr.gov/agronomi/obpart4.htm#fs* to find information that may help you choose a comparable alternate. For more information, read *A Homeowner's Guide to Fertilizer*.

Test Results

The first seven values [soil class, HM%, W/V, CEC, BS%, Ac and pH] describe the soil and its degree of acidity. The remaining 16 [P-I, K-I, Ca%, Mg%, Mn-I, Mn-AI1, Mn-AI2, Zn-I, Zn-AI, Cu-I, S-I, SS-I, Na, ESP, SS-I, NO_3-N (not routinely available)] indicate levels of plant nutrients or other fertility measurement. Visit *www.ncagr.gov/agronomi/uyrst.htm* for more information.

Report Abbreviations

Ac	exchangeable acidity
B	boron
BS%	% CEC occupied by basic cations
Ca%	% CEC occupied by calcium
CEC	cation exchange capacity
Cu-I	copper index
ESP	exchangeable sodium percent
HM%	percent humic matter
K-I	potassium index
K_2O	potash
Mg%	% CEC occupied by magnesium
MIN	mineral soil class
Mn	manganese
Mn-AI1	Mn-availability index for crop 1
Mn-AI2	Mn-availability index for crop 2
Mn-I	manganese index
M-O	mineral-organic soil class
N	nitrogen
Na	sodium
NO_3-N	nitrate nitrogen
ORG	organic soil class
pH	current soil pH
P-I	phosphorus index
P_2O_5	phosphate
S-I	sulfur index
SS-I	soluble salt index
W/V	weight per volume
Zn-AI	zinc availability index
Zn-I	zinc index

Pamlico County FSA
Farm 2860 Tract 1318

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

Field	Acres	Crop	HEL
1	5.45		N
2	~~0.86~~		N
3	3.50		N
4	2.18		N
5	4.14		N
6	6.40		N
7	2.57		N
8	2.36		N
9	2.63		N
10	5.39		N
11	2.89		N
12	3.07		N
13	3.04		N
14	3.19		N
15	3.54		N
16	1.93		N
17	5.62		N
18	5.06		N

1, 3-16
4 T/A

17, 18
3 T/A
@ House

Total Cropland Acr
63.8

NCDA&CS Agronomic Division Phone: (919) 733-2655 Website: www.ncagr.gov/agronomi/ Report No. FY14-SL019894

Predictive

Soil Report

Mehlich-3 Extraction

Client: Owen (OWP) Peele
282 Peele Rd.
Aurora, NC 278069603

Sampled County : Pamlico

Advisor: Sarah Arthur, LLC
3780 Hwy 58 N
Trenton, NC 28585

Sampled: 11/16/2013 **Received:** 11/18/2013 **Completed:** 12/18/2013 **Farm:** HOU

Links to Helpful Information

Sample ID: 1

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	80	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	120	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.60	1.12	5.5	81	1.0	5.9	76	31	66	12	31	66	57	50	57	57	71	0.2	4		

Sample ID: 2

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	50	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	80	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.60	1.13	5.6	82	1.0	5.9	74	44	66	12	32	65	56	49	79	79	85	0.2	4		

Sample ID: 3

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	60	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	100	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.60	1.11	7.6	86	1.0	6.1	113	38	72	11	30	73	59	52	113	113	117	0.2	3		

4 TIA

North Carolina Tobacco Trust Fund Commission

Reprogramming of the laboratory-information-management system that makes this report possible is being funded through a grant from the North Carolina Tobacco Trust Fund Commission.

Thank you for using agronomic services to manage nutrients and safeguard environmental quality.
- *Steve Troxler, Commissioner of Agriculture*

Sample ID: 4

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	60	0	0	pH$	0	0	0	Note: 3 Note: $
2 - SG/Soybean (DC)	0.0	80-100	0	100	0	0	pH$	0	0	0	Note: 3 Note: $

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.51	1.10	7.9	92	0.6	6.6	89	38	78	12	36	69	50	43	104	104	124	0.2	3		

Sample ID: 5

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	30	60	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	50	100	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.60	1.10	7.7	87	1.0	6.3	46	38	68	17	35	76	58	51	79	79	110	0.2	3		

Sample ID: 6

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	20	50	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	30	80	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.66	1.06	8.5	84	1.3	6.0	53	45	65	17	38	66	56	49	77	77	52	0.2	2		

Sample ID: 7

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.3	120 - 160	40	70	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	60	120	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.41	1.12	5.6	78	1.2	5.8	42	32	56	19	33	51	48	41	45	45	42	0.2	4		

Sample ID: 8

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.5	120 - 160	60	80	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	90	130	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.41	1.09	5.4	76	1.3	5.6	31	28	54	19	27	60	53	46	52	52	58	0.1	2		

Sample ID: 9

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	50	70	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	70	110	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.36	1.10	5.9	80	1.2	5.9	38	34	60	17	27	55	50	43	42	42	54	0.2	3		

Sample ID: 10

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	50	90	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	70	140	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.41	1.16	5.7	80	1.1	6.0	38	26	61	17	36	63	55	48	38	38	65	0.2	4		

Sample ID: 11

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.4	120 - 160	50	90	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	70	150	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.41	1.14	4.4	71	1.3	5.7	39	23	57	11	33	76	63	56	50	50	63	0.2	5		

Sample ID: 12

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.4	120 - 160	40	70	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	60	120	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.51	1.12	5.4	76	1.3	5.7	41	32	62	11	27	79	64	57	78	78	90	0.1	2		

Sample ID: 13

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.3	120 - 160	40	80	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	60	120	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.56	1.10	5.7	79	1.2	5.8	41	31	64	12	29	62	54	47	78	78	67	0.2	4		

Sample ID: 14

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.3	120 - 160	50	80	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	70	130	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.46	1.06	5.3	77	1.2	5.8	37	30	61	12	31	73	61	54	89	89	122	0.2	4		

Sample ID: 15

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.3	120 - 160	40	80	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	60	130	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.60	1.12	5.2	74	1.3	5.8	41	30	59	12	30	74	61	54	76	76	122	0.2	4		

Sample ID: 16

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.3	120 - 160	0	60	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	100	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.86	1.05	6.3	80	1.3	5.8	66	39	64	12	34	71	60	53	77	77	93	0.2	3		

Sample ID: 17

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	60	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	90	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.86	1.05	8.2	91	0.8	6.5	78	41	71	17	30	88	63	56	80	80	116	0.2	2		

Sample ID: 18

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	40	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	70	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
1.61	1.03	8.3	85	1.3	6.1	80	48	64	17	39	68	56	49	77	77	91	0.2	2		

Sample ID: 19

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	30	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	40	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
2.15	1.03	8.4	81	1.6	5.9	89	59	62	16	47	64	55	48	70	70	75	0.2	2		

Sample ID: 20

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	50	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	70	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO_3-N
1.49	1.05	7.6	82	1.4	5.9	69	47	65	13	45	80	65	58	81	81	76	0.2	3		

Sample ID: 21

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	20	50	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	30	90	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO_3-N
1.37	1.06	7.3	82	1.3	6.0	53	42	64	15	28	75	62	55	71	71	70	0.1	1		

Understanding the Soil Report: explanation of measurements, abbreviations and units

Recommendations

Lime

If testing finds that soil pH is too low for the crop(s) indicated, a ***lime recommendation*** will be given in units of either ton/acre or lb/1000 sq ft. For best results, mix the lime into the top 6 to 8 inches of soil several months before planting. For no-till or established plantings where this is not possible, apply no more than 1 to 1.5 ton/acre (50 lb/1000 sq ft) at one time, even if the report recommends more. You can apply the rest in similar increments every six months until the full rate is applied. If MG is recommended and lime is needed, use dolomitric lime.

Fertilizer

Recommendations ***for field crops or other large areas*** are listed separately for each nutrient to be added (in units of lb/acre unless otherwise specified). Recommendations for N (and sometimes for B) are based on research/field studies for the crop being grown, not on soil test results. K-I and P-I values are based on test results and should be > 50. If they are not, follow the fertilizer recommendations given. If Mg is needed and no lime is recommended, 0-0-22 (11.5% Mg) is an excellent source; 175 to 250 lb per acre alone or in a fertilizer blend will usually satisfy crop needs, SS-I levels appear only on reports for greenhouse soil or problem samples.

Farmers and other commercial producers should pay special attention to ***micronutrient levels***. If *$*, *pH$*, *$pH*, *C* or *Z* notations appear on the soil report, refer to *$Note: Secondary Nutrients and Micronutrients*. In general, homeowners do not need to be concerned about micronutrients. Various crop notes also address lime fertilizer needs; visit ncagr.gov/agronomi/pubs.htm.

Recommendations ***for small areas, such as home lawns/gardens,*** are listed in units of lb/1000 sq ft . If you cannot find the exact fertilizer grade recommended on the report, visit *www.ncagr.gov/agronomi/obpart4.htm#fs* to find information that may help you choose a comparable alternate. For more information, read *A Homeowner's Guide to Fertilizer*.

Test Results

The first seven values [soil class, HM%, W/V, CEC, BS%, Ac and pH] describe the soil and its degree of acidity. The remaining 16 [P-I, K-I, Ca%, Mg%, Mn-I, Mn-AI1, Mn-AI2, Zn-I, Zn-AI, Cu-I, S-I, SS-I, Na, ESP, SS-I, NO_3-N (not routinely available)] indicate levels of plant nutrients or other fertility measurement. Visit *www.ncagr.gov/agronomi/uyrst.htm* for more information.

Report Abbreviations

Ac	exchangeable acidity
B	boron
BS%	% CEC occupied by basic cations
Ca%	% CEC occupied by calcium
CEC	cation exchange capacity
Cu-I	copper index
ESP	exchangeable sodium percent
HM%	percent humic matter
K-I	potassium index
K_2O	potash
Mg%	% CEC occupied by magnesium
MIN	mineral soil class
Mn	manganese
Mn-AI1	Mn-availability index for crop 1
Mn-AI2	Mn-availability index for crop 2
Mn-I	manganese index
M-O	mineral-organic soil class
N	nitrogen
Na	sodium
NO_3-N	nitrate nitrogen
ORG	organic soil class
pH	current soil pH
P-I	phosphorus index
P_2O_5	phosphate
S-I	sulfur index
SS-I	soluble salt index
W/V	weight per volume
Zn-AI	zinc availability index
Zn-I	zinc index

NCDA&CS Agronomic Division | Phone: (919) 733-2655 | Website: www.ncagr.gov/agronomi/ | Report No. FY14-SL019892

Predictive

Soil Report

Mehlich-3 Extraction

Client: Owen (OWP) Peele
282 Peele Rd.
Aurora, NC 278069603

Sampled County : Pamlico

Advisor: Sarah Arthur, LLC
3780 Hwy 58 N
Trenton, NC 28585

Sampled: 11/16/2013 **Received:** 11/18/2013 **Completed:** 12/18/2013 **Farm:** LE 1

Links to Helpful Information

Sample ID: 1

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	0	0	0	pH$	0	0	0	Note: 3 Note: $
2 - SG/Soybean (DC)	0.0	80-100	0	0	0	0	pH$	0	0	0	Note: 3 Note: $

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
1.80	0.95	17.9	100	0.0	6.9	143	103	87	10	50	65	42	35	185	185	167	0.3	2		

Sample ID: 2

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	40	0	0	pH$	0	0	0	Note: 3 Note: $
2 - SG/Soybean (DC)	0.0	80-100	0	60	0	0	pH$	0	0	0	Note: 3 Note: $

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.81	1.04	10.1	93	0.7	6.6	82	51	77	14	35	66	47	40	153	153	145	0.2	2		

Sample ID: 3

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	40	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	70	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
1.37	1.06	10.3	90	1.0	6.3	104	48	75	13	36	65	51	44	146	146	152	0.1	1		

4 T/A

North Carolina Tobacco Trust Fund Commission

Reprogramming of the laboratory-information-management system that makes this report possible is being funded through a grant from the North Carolina Tobacco Trust Fund Commission.

Thank you for using agronomic services to manage nutrients and safeguard environmental quality.
- *Steve Troxler, Commissioner of Agriculture*

Sample ID: 4

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	60	0	0	pH$	0	0	0	Note: 3 Note: $
2 - SG/Soybean (DC)	0.0	80-100	0	90	0	0	pH$	0	0	0	Note: 3 Note: $

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.92	1.07	9.8	92	0.8	6.5	88	41	76	14	27	66	49	42	152	152	140	0.1	1		

Understanding the Soil Report: explanation of measurements, abbreviations and units

Recommendations

Lime

If testing finds that soil pH is too low for the crop(s) indicated, a ***lime recommendation*** will be given in units of either ton/acre or lb/1000 sq ft. For best results, mix the lime into the top 6 to 8 inches of soil several months before planting. For no-till or established plantings where this is not possible, apply no more than 1 to 1.5 ton/acre (50 lb/1000 sq ft) at one time, even if the report recommends more. You can apply the rest in similar increments every six months until the full rate is applied. If MG is recommended and lime is needed, use dolomitric lime.

Fertilizer

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Recommendations ***for small areas, such as home lawns/gardens,*** are listed in units of lb/1000 sq ft . If you cannot find the exact fertilizer grade recommended on the report, visit *www.ncagr.gov/agronomi/obpart4.htm#fs* to find information that may help you choose a comparable alternate. For more information, read *A Homeowner's Guide to Fertilizer.*

Test Results

The first seven values [soil class, HM%, W/V, CEC, BS%, Ac and pH] describe the soil and its degree of acidity. The remaining 16 [P-I, K-I, Ca%, Mg%, Mn-I, Mn-AI1, Mn-AI2, Zn-I, Zn-AI, Cu-I, S-I, SS-I, Na, ESP, SS-I, NO_3-N (not routinely available)] indicate levels of plant nutrients or other fertility measurement. Visit *www.ncagr.gov/agronomi/uyrst.htm* for more information.

Report Abbreviations

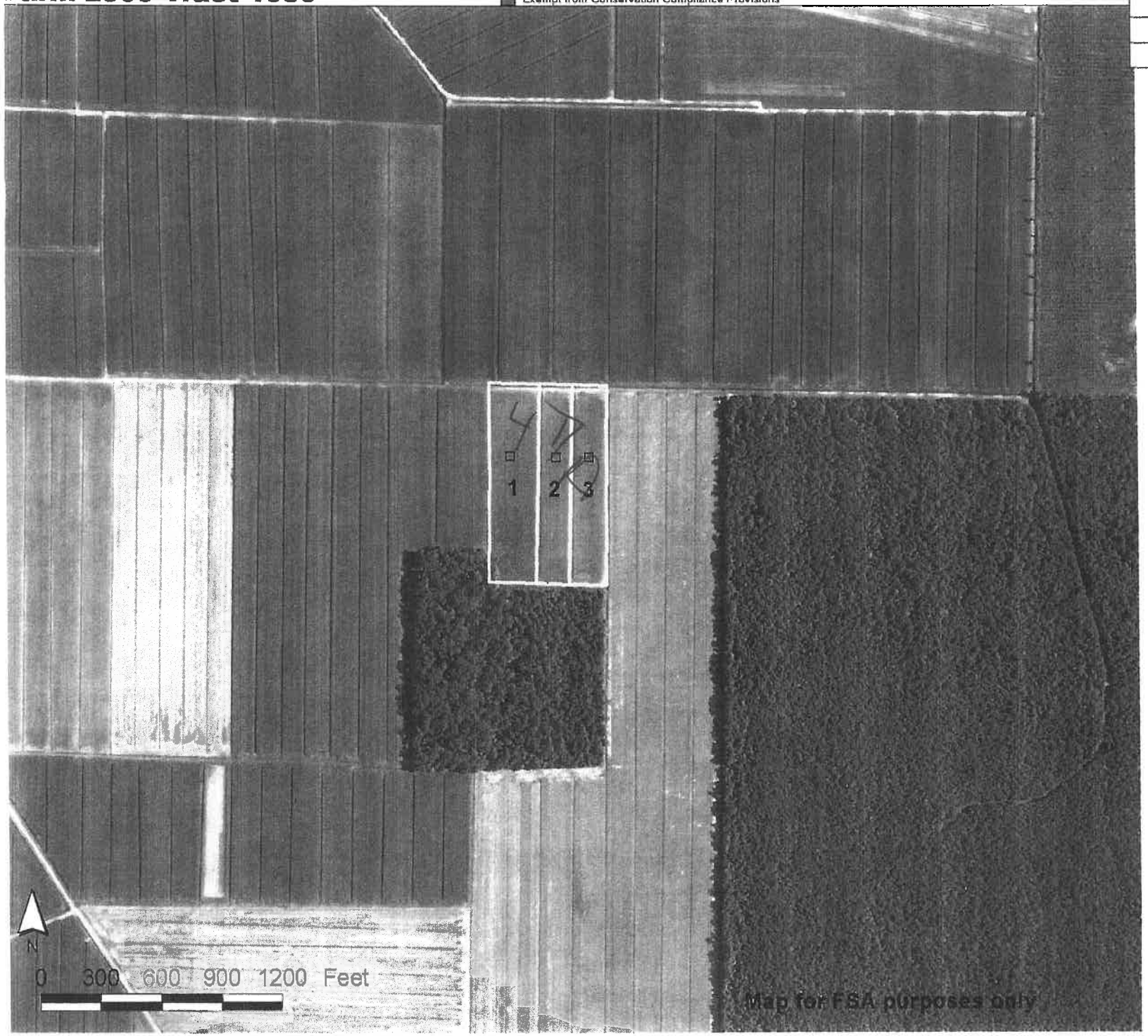
Ac	exchangeable acidity
B	boron
BS%	% CEC occupied by basic cations
Ca%	% CEC occupied by calcium
CEC	cation exchange capacity
Cu-I	copper index
ESP	exchangeable sodium percent
HM%	percent humic matter
K-I	potassium index
K_2O	potash
Mg%	% CEC occupied by magnesium
MIN	mineral soil class
Mn	manganese
Mn-AI1	Mn-availability index for crop 1
Mn-AI2	Mn-availability index for crop 2
Mn-I	manganese index
M-O	mineral-organic soil class
N	nitrogen
Na	sodium
NO_3-N	nitrate nitrogen
ORG	organic soil class
pH	current soil pH
P-I	phosphorus index
P_2O_5	phosphate
S-I	sulfur index
SS-I	soluble salt index
W/V	weight per volume
Zn-AI	zinc availability index
Zn-I	zinc index

Pamlico County FSA
Farm 2860 Tract 1689

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

Field	Acres	Crop	HEL	CRP
1	5.39		N	
2	3.61		N	
3	3.95		N	



4 T/A

House Storm

Total Cropland Acres
12.9

NCDA&CS Agronomic Division Phone: (919) 733-2655 Website: www.ncagr.gov/agronomi/ Report No. FY14-SL019891

Predictive

Soil Report

Mehlich-3 Extraction

Client: Owen (OWP) Peele
282 Peele Rd.
Aurora, NC 278069603

Sampled County : Pamlico

Advisor: Sarah Arthur, LLC
3780 Hwy 58 N
Trenton, NC 28585

Sampled: 11/16/2013 **Received:** 11/18/2013 **Completed:** 12/18/2013 **Farm:** WTJ

Links to Helpful Information

Sample ID: 1

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	10	30	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	20	40	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral-Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
4.09	0.90	12.5	82	2.2	5.9	58	57	69	11	47	43	45	38	83	104	116	0.2	2		

Sample ID: 2

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	10	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	40	0	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
5.69	0.86	10.9	80	2.2	5.9	42	74	65	11	51	39	42	35	69	115	89	0.2	2		

Sample ID: 3

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.3	120 - 160	20	20	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	30	20	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
3.19	0.94	10.9	81	2.1	5.9	53	66	66	12	41	42	42	35	84	84	78	0.2	2		

4 T/A

North Carolina Tobacco Trust Fund Commission

Reprogramming of the laboratory-information-management system that makes this report possible is being funded through a grant from the North Carolina Tobacco Trust Fund Commission.

Thank you for using agronomic services to manage nutrients and safeguard environmental quality.
- *Steve Troxler, Commissioner of Agriculture*

Owen (OWP) Peele

Sample ID: 4

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	30	10	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	40	0	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO_3-N
2.22	0.93	11.1	86	1.6	6.1	48	77	71	11	36	48	45	38	100	100	90	0.1	1		

Understanding the Soil Report: explanation of measurements, abbreviations and units

Recommendations

Lime

If testing finds that soil pH is too low for the crop(s) indicated, a ***lime recommendation*** will be given in units of either ton/acre or lb/1000 sq ft. For best results, mix the lime into the top 6 to 8 inches of soil several months before planting. For no-till or established plantings where this is not possible, apply no more than 1 to 1.5 ton/acre (50 lb/1000 sq ft) at one time, even if the report recommends more. You can apply the rest in similar increments every six months until the full rate is applied. If MG is recommended and lime is needed, use dolomitric lime.

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Farmers and other commercial producers should pay special attention to ***micronutrient levels***. If *$*, *pH$*, *$pH*, *C* or *Z* notations appear on the soil report, refer to *$Note: Secondary Nutrients and Micronutrients*. In general, homeowners do not need to be concerned about micronutrients. Various crop notes also address lime fertilizer needs; visit ncagr.gov/agronomi/pubs.htm.

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Test Results

The first seven values [soil class, HM%, W/V, CEC, BS%, Ac and pH] describe the soil and its degree of acidity. The remaining 16 [P-I, K-I, Ca%, Mg%, Mn-I, Mn-AI1, Mn-AI2, Zn-I, Zn-AI, Cu-I, S-I, SS-I, Na, ESP, SS-I, NO_3-N (not routinely available)] indicate levels of plant nutrients or other fertility measurement. Visit *www.ncagr.gov/agronomi/uyrst.htm* for more information.

Report Abbreviations

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K_2O	potash
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Mn	manganese
Mn-AI1	Mn-availability index for crop 1
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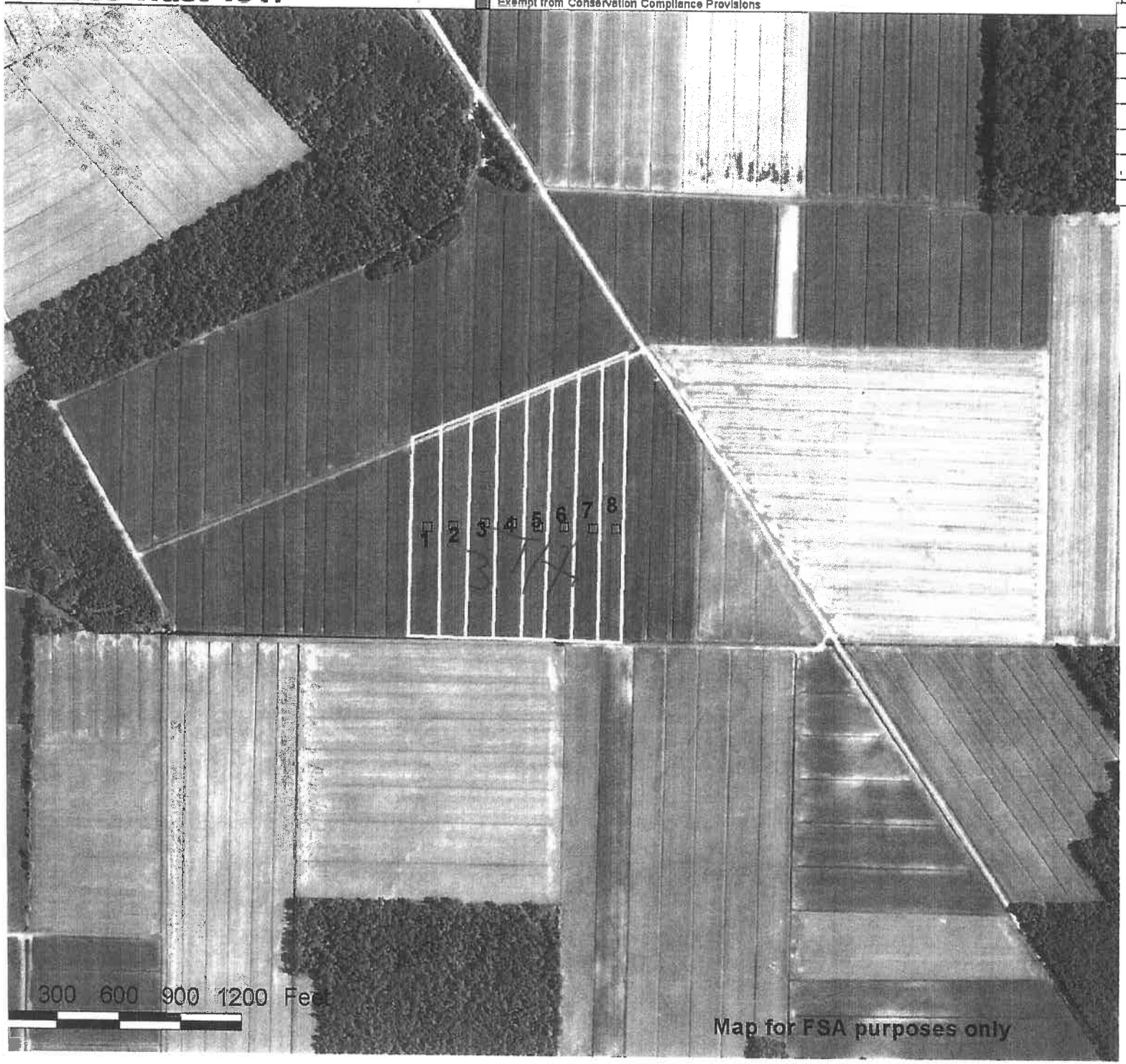
Mn-I	manganese index
M-O	mineral-organic soil class
N	nitrogen
Na	sodium
NO_3-N	nitrate nitrogen
ORG	organic soil class
pH	current soil pH
P-I	phosphorus index
P_2O_5	phosphate
S-I	sulfur index
SS-I	soluble salt index
W/V	weight per volume
Zn-AI	zinc availability index
Zn-I	zinc index

mlico County FSA
rm 2860 Tract 1317

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

Field	Acres	Crop	HEL	CRP
1	3.18		N	
2	3.28		N	
3	3.27		N	
4	3.63		N	
5	3.20		N	
6	3.76		N	
7	3.62		N	
8	3.63		N	



3 T/A
Railroad
5-6 acres

Total Cropland Acres
27.6

NCDA&CS Agronomic Division Phone: (919) 733-2655 Website: www.ncagr.gov/agronomi/ Report No. FY14-SL019888

Predictive

Soil Report

Mehlich-3 Extraction

Client: Owen (OWP) Peele
282 Peele Rd.
Aurora, NC 278069603

Sampled County : Pamlico

Advisor: Sarah Arthur, LLC
3780 Hwy 58 N
Trenton, NC 28585

Sampled: 11/16/2013 **Received:** 11/18/2013 **Completed:** 12/18/2013 **Farm:** BUS

Links to Helpful Information

Sample ID: 1

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	10	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	0	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
2.52	0.85	11.8	87	1.6	6.2	269	78	66	18	46	53	45	38	89	89	106	0.1	1		

Sample ID: 2

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	30	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	40	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
2.52	0.85	11.0	84	1.8	6.2	243	56	62	19	51	43	40	33	64	64	113	0.2	2		

Sample ID: 3

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	10	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	10	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
3.37	0.78	13.0	85	1.9	6.1	256	71	62	20	50	41	40	33	85	85	106	0.2	2		

3 ~~4~~ TIA

North Carolina
Tobacco Trust Fund Commission

Reprogramming of the laboratory-information-management system that makes this report possible is being funded through a grant from the North Carolina Tobacco Trust Fund Commission.

Thank you for using agronomic services to manage nutrients and safeguard environmental quality.
- *Steve Troxler, Commissioner of Agriculture*

Sample ID: 4

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	20	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	20	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral-Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
3.67	0.83	12.3	83	2.1	6.0	239	66	62	18	55	42	42	35	89	111	117	0.2	2		

Sample ID: 5

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.6	120 - 160	0	30	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	40	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
3.28	0.75	10.8	78	2.4	5.8	254	56	60	15	61	47	45	38	75	75	117	0.2	2		

Sample ID: 6

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	20	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	20	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral-Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
3.77	0.78	12.4	80	2.4	5.8	262	66	61	17	57	42	45	38	94	118	116	0.2	2		

Sample ID: 7

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	40	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	60	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
3.47	0.82	12.5	82	2.2	6.0	272	52	62	18	56	41	41	34	63	63	126	0.2	2		

Sample ID: 8

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	30	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	30	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
2.68	0.89	11.6	82	2.1	6.0	296	60	64	15	54	45	44	37	60	60	151	0.2	2		

Sample ID: 9

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	40	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	50	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
2.37	0.89	12.7	83	2.2	6.0	264	54	63	18	51	38	40	33	87	87	134	0.1	1		

Sample ID: 10

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	30	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	40	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
2.15	0.92	11.8	85	1.8	6.1	287	56	67	15	50	46	43	36	79	79	116	0.2	2		

Sample ID: 11

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	50	0	0	pH$	0	0	0	Note: 3 Note: $
2 - SG/Soybean (DC)	0.0	80-100	0	70	0	0	pH$	0	0	0	Note: 3 Note: $

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.97	0.95	10.3	94	0.6	6.8	259	47	73	19	48	63	42	35	97	97	131	0.2	2		

Owen (OWP) Peele

Sample ID: 12

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	0	0	0	pH$	0	0	0	Note: 3 Note: $
2 - SG/Soybean (DC)	0.0	80-100	0	0	0	0	$pH	0	0	0	Note: 3 Note: $

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO_3-N
1.87	0.89	13.4	92	1.0	6.8	257	85	72	17	54	45	32	25	91	91	119	0.3	2		

Understanding the Soil Report: explanation of measurements, abbreviations and units

Recommendations

Lime

If testing finds that soil pH is too low for the crop(s) indicated, a ***lime recommendation*** will be given in units of either ton/acre or lb/1000 sq ft. For best results, mix the lime into the top 6 to 8 inches of soil several months before planting. For no-till or established plantings where this is not possible, apply no more than 1 to 1.5 ton/acre (50 lb/1000 sq ft) at one time, even if the report recommends more. You can apply the rest in similar increments every six months until the full rate is applied. If MG is recommended and lime is needed, use dolomitric lime.

Fertilizer

Recommendations ***for field crops or other large areas*** are listed separately for each nutrient to be added (in units of lb/acre unless otherwise specified). Recommendations for N (and sometimes for B) are based on research/field studies for the crop being grown, not on soil test results. K-I and P-I values are based on test results and should be > 50. If they are not, follow the fertilizer recommendations given. If Mg is needed and no lime is recommended, 0-0-22 (11.5% Mg) is an excellent source; 175 to 250 lb per acre alone or in a fertilizer blend will usually satisfy crop needs, SS-I levels appear only on reports for greenhouse soil or problem samples.

Farmers and other commercial producers should pay special attention to ***micronutrient levels***. If *$*, *pH$*, *$pH*, *C* or *Z* notations appear on the soil report, refer to *$Note: Secondary Nutrients and Micronutrients*. In general, homeowners do not need to be concerned about micronutrients. Various crop notes also address lime fertilizer needs; visit ncagr.gov/agronomi/pubs.htm.

Recommendations ***for small areas, such as home lawns/gardens,*** are listed in units of lb/1000 sq ft . If you cannot find the exact fertilizer grade recommended on the report, visit *www.ncagr.gov/agronomi/obpart4.htm#fs* to find information that may help you choose a comparable alternate. For more information, read *A Homeowner's Guide to Fertilizer*.

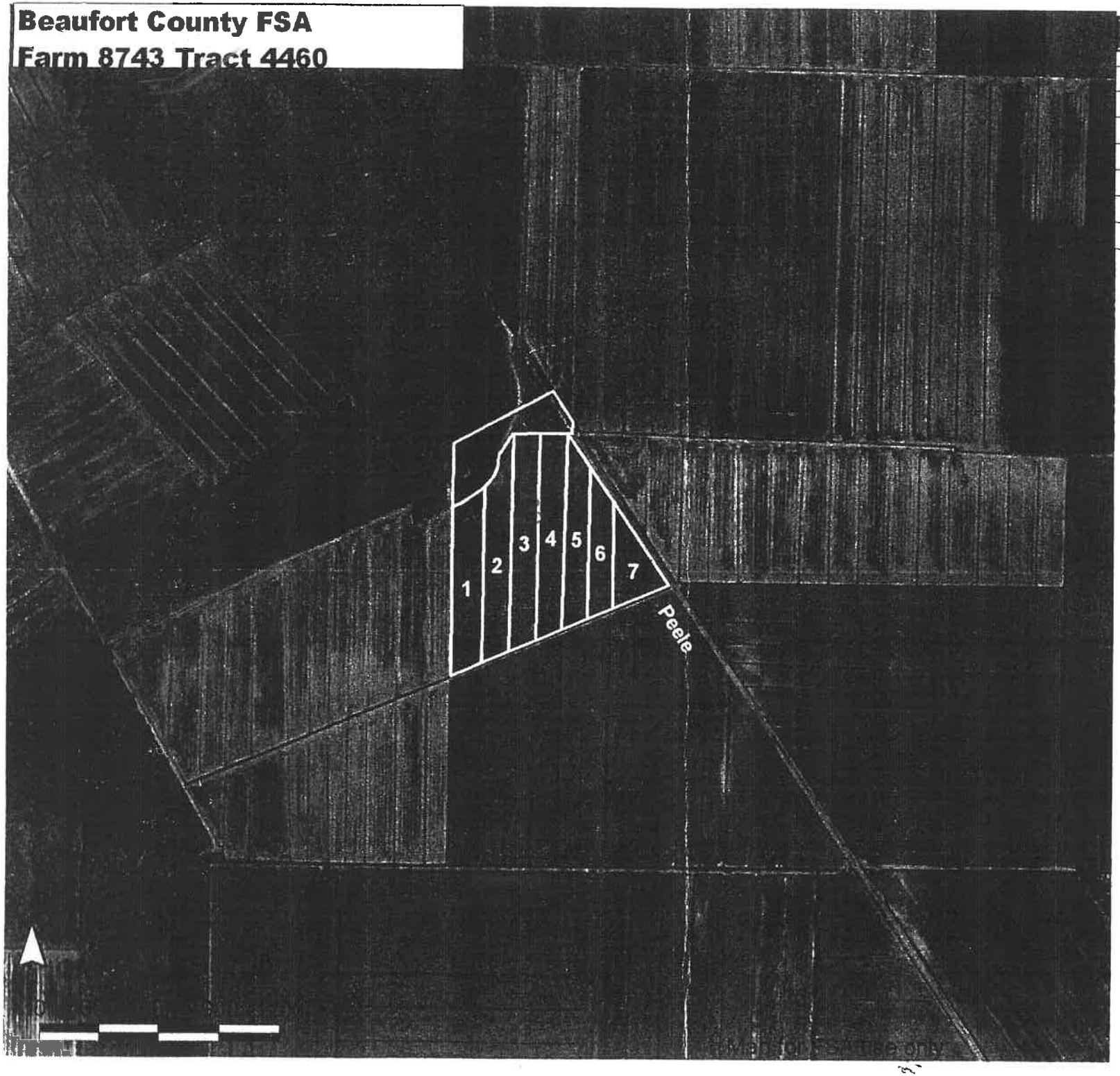
Test Results

The first seven values [soil class, HM%, W/V, CEC, BS%, Ac and pH] describe the soil and its degree of acidity. The remaining 16 [P-I, K-I, Ca%, Mg%, Mn-I, Mn-AI1, Mn-AI2, Zn-I, Zn-AI, Cu-I, S-I, SS-I, Na, ESP, SS-I, NO_3-N (not routinely available)] indicate levels of plant nutrients or other fertility measurement. Visit *www.ncagr.gov/agronomi/uyrst.htm* for more information.

Report Abbreviations

Ac	exchangeable acidity
B	boron
BS%	% CEC occupied by basic cations
Ca%	% CEC occupied by calcium
CEC	cation exchange capacity
Cu-I	copper index
ESP	exchangeable sodium percent
HM%	percent humic matter
K-I	potassium index
K_2O	potash
Mg%	% CEC occupied by magnesium
MIN	mineral soil class
Mn	manganese
Mn-AI1	Mn-availability index for crop 1
Mn-AI2	Mn-availability index for crop 2
Mn-I	manganese index
M-O	mineral-organic soil class
N	nitrogen
Na	sodium
NO_3-N	nitrate nitrogen
ORG	organic soil class
pH	current soil pH
P-I	phosphorus index
P_2O_5	phosphate
S-I	sulfur index
SS-I	soluble salt index
W/V	weight per volume
Zn-AI	zinc availability index
Zn-I	zinc index

Beaufort County FSA
Farm 8743 Tract 4460



Fld	Acres	Crop	HEL	CRP
1	3.12		N	
2	3.16		N	
3	3.21		N	
4	3.14		N	
5	2.44		N	
6	1.79		N	
7	1.70		N	

3 T/A

1st field on Right
Past Dog pen

Total Cropland Acres
18.6

NCDA&CS Agronomic Division Phone: (919) 733-2655 Website: www.ncagr.gov/agronomi/ Report No. FY14-SL019887

Predictive

Soil Report

Mehlich-3 Extraction

Client: Owen (OWP) Peele
282 Peele Rd.
Aurora, NC 278069603

Sampled County : Pamlico

Advisor: Sarah Arthur, LLC
3780 Hwy 58 N
Trenton, NC 28585

Sampled: 11/16/2013 **Received:** 11/18/2013 **Completed:** 12/18/2013 **Farm:** PCS 1

Links to Helpful Information

Sample ID: 1

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	20	0	0	pH$	0	0	0	Note: 3 Note: $
2 - SG/Soybean (DC)	0.0	80-100	0	30	0	0	pH$	0	0	0	Note: 3 Note: $

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.76	0.93	8.2	90	0.8	6.6	121	63	65	20	47	90	61	54	118	118	92	0.3	4		

Sample ID: 2

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	40	0	0	pH$	0	0	0	Note: 3 Note: $
2 - SG/Soybean (DC)	0.0	80-100	0	60	0	0	pH$	0	0	0	Note: 3 Note: $

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.81	1.07	7.6	89	0.8	6.6	142	49	65	22	56	79	55	48	101	101	85	0.3	4		

Sample ID: 3

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	50	0	0	pH$	0	0	0	Note: 3 Note: $
2 - SG/Soybean (DC)	0.0	80-100	0	80	0	0	pH$	0	0	0	Note: 3 Note: $

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.66	1.02	8.8	94	0.5	6.8	130	45	69	22	53	100	64	57	134	134	101	0.3	3		

3 ~~4~~ T/A

North Carolina
Tobacco Trust Fund Commission

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Thank you for using agronomic services to manage nutrients and safeguard environmental quality.
- *Steve Troxler, Commissioner of Agriculture*

Sample ID: 4

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	30	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	40	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.86	0.99	9.7	90	1.0	6.5	163	58	66	21	46	97	68	61	107	107	138	0.3	3		

Sample ID: 5

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	10	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	10	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
1.02	0.93	8.7	84	1.4	6.1	148	71	62	18	47	89	68	61	105	105	118	0.2	2		

Sample ID: 6

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.4	120 - 160	0	20	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	20	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
1.14	0.88	8.2	79	1.7	5.8	162	64	59	16	41	84	67	60	88	88	113	0.2	2		

Sample ID: 7

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	20	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	10	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
1.08	0.93	8.6	83	1.4	6.1	164	68	59	21	37	84	66	59	85	85	100	0.1	1		

Understanding the Soil Report: explanation of measurements, abbreviations and units

Recommendations

Lime

If testing finds that soil pH is too low for the crop(s) indicated, a ***lime recommendation*** will be given in units of either ton/acre or lb/1000 sq ft. For best results, mix the lime into the top 6 to 8 inches of soil several months before planting. For no-till or established plantings where this is not possible, apply no more than 1 to 1.5 ton/acre (50 lb/1000 sq ft) at one time, even if the report recommends more. You can apply the rest in similar increments every six months until the full rate is applied. If MG is recommended and lime is needed, use dolomitric lime.

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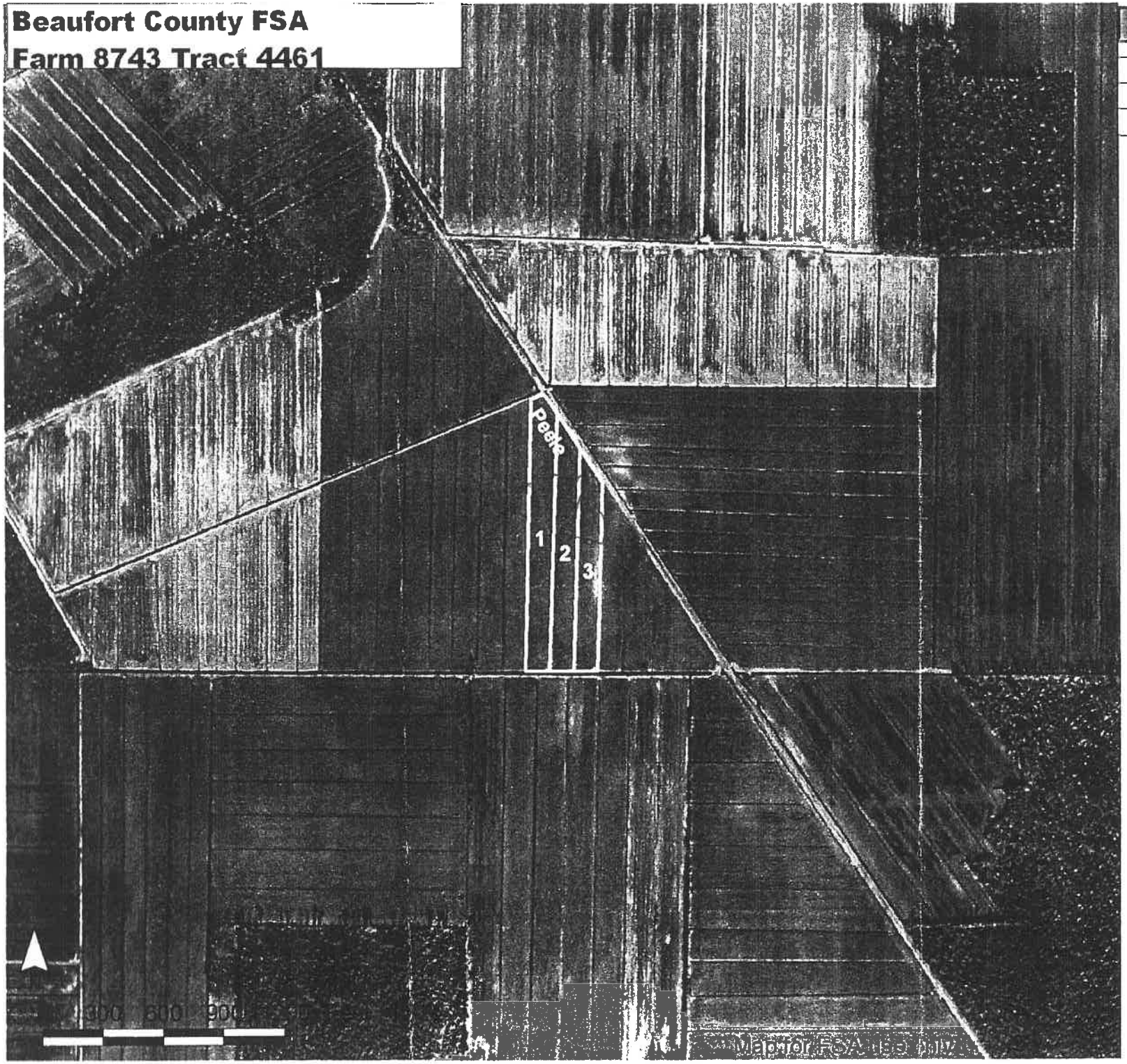
Test Results

The first seven values [soil class, HM%, W/V, CEC, BS%, Ac and pH] describe the soil and its degree of acidity. The remaining 16 [P-I, K-I, Ca%, Mg%, Mn-I, Mn-AI1, Mn-AI2, Zn-I, Zn-AI, Cu-I, S-I, SS-I, Na, ESP, SS-I, NO_3-N (not routinely available)] indicate levels of plant nutrients or other fertility measurement. Visit *www.ncagr.gov/agronomi/uyrst.htm* for more information.

Report Abbreviations

Ac	exchangeable acidity
B	boron
BS%	% CEC occupied by basic cations
Ca%	% CEC occupied by calcium
CEC	cation exchange capacity
Cu-I	copper index
ESP	exchangeable sodium percent
HM%	percent humic matter
K-I	potassium index
K_2O	potash
Mg%	% CEC occupied by magnesium
MIN	mineral soil class
Mn	manganese
Mn-AI1	Mn-availability index for crop 1
Mn-AI2	Mn-availability index for crop 2
Mn-I	manganese index
M-O	mineral-organic soil class
N	nitrogen
Na	sodium
NO_3-N	nitrate nitrogen
ORG	organic soil class
pH	current soil pH
P-I	phosphorus index
P_2O_5	phosphate
S-I	sulfur index
SS-I	soluble salt index
W/V	weight per volume
Zn-AI	zinc availability index
Zn-I	zinc index

Beaufort County FSA
Farm 8743 Tract 4461



Fld	Acres	Crop	HEL	CRP
1	3.90		N	
2	3.30		N	
3	2.79		N	

3 T/A

1 ST Rd Right

Total Cropland Acres
10.0

NCDA&CS Agronomic Division Phone: (919) 733-2655 Website: www.ncagr.gov/agronomi/ Report No. FY14-SL019889

Predictive

Soil Report

Mehlich-3 Extraction

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282 Peele Rd.
Aurora, NC 278069603

Sampled County : Pamlico

Advisor: Sarah Arthur, LLC
3780 Hwy 58 N
Trenton, NC 28585

Sampled: 11/16/2013 **Received:** 11/18/2013 **Completed:** 12/18/2013 **Farm:** PCS 2

Links to Helpful Information

Sample ID: 1

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	40	0	0	pH$	0	0	0	Note: 3 Note: $
2 - SG/Soybean (DC)	0.0	80-100	0	60	0	0	pH$	0	0	0	Note: 3 Note: $

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
1.02	0.96	8.5	89	0.9	6.6	203	51	66	20	44	73	51	44	112	112	114	0.2	2		

Sample ID: 2

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	10	0	0	pH$	0	0	0	Note: 3 Note: $
2 - SG/Soybean (DC)	0.0	80-100	0	10	0	0	pH$	0	0	0	Note: 3 Note: $

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
1.61	0.95	9.7	86	1.4	6.5	216	71	62	21	53	61	45	38	72	72	107	0.3	3		

Sample ID: 3

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	40	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	70	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
1.19	0.93	8.9	86	1.2	6.3	174	48	65	19	52	73	57	50	68	68	112	0.2	2		

3 ~~2~~ T/A

North Carolina Tobacco Trust Fund Commission

Reprogramming of the laboratory-information-management system that makes this report possible is being funded through a grant from the North Carolina Tobacco Trust Fund Commission.

Thank you for using agronomic services to manage nutrients and safeguard environmental quality.
- *Steve Troxler, Commissioner of Agriculture*

Sample ID: 4

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	30	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	40	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO_3-N
0.76	0.97	8.1	88	1.0	6.3	113	56	65	20	54	69	54	47	92	92	88	0.3	4		

Understanding the Soil Report: explanation of measurements, abbreviations and units

Recommendations

Lime

If testing finds that soil pH is too low for the crop(s) indicated, a ***lime recommendation*** will be given in units of either ton/acre or lb/1000 sq ft. For best results, mix the lime into the top 6 to 8 inches of soil several months before planting. For no-till or established plantings where this is not possible, apply no more than 1 to 1.5 ton/acre (50 lb/1000 sq ft) at one time, even if the report recommends more. You can apply the rest in similar increments every six months until the full rate is applied. If MG is recommended and lime is needed, use dolomitric lime.

Fertilizer

Recommendations ***for field crops or other large areas*** are listed separately for each nutrient to be added (in units of lb/acre unless otherwise specified). Recommendations for N (and sometimes for B) are based on research/field studies for the crop being grown, not on soil test results. K-I and P-I values are based on test results and should be > 50. If they are not, follow the fertilizer recommendations given. If Mg is needed and no lime is recommended, 0-0-22 (11.5% Mg) is an excellent source; 175 to 250 lb per acre alone or in a fertilizer blend will usually satisfy crop needs, SS-I levels appear only on reports for greenhouse soil or problem samples.

Farmers and other commercial producers should pay special attention to ***micronutrient levels***. If *$*, *pH$*, *$pH*, *C* or *Z* notations appear on the soil report, refer to *$Note: Secondary Nutrients and Micronutrients*. In general, homeowners do not need to be concerned about micronutrients. Various crop notes also address lime fertilizer needs; visit ncagr.gov/agronomi/pubs.htm.

Recommendations ***for small areas, such as home lawns/gardens,*** are listed in units of lb/1000 sq ft . If you cannot find the exact fertilizer grade recommended on the report, visit *www.ncagr.gov/agronomi/obpart4.htm#fs* to find information that may help you choose a comparable alternate. For more information, read *A Homeowner's Guide to Fertilizer*.

Test Results

The first seven values [soil class, HM%, W/V, CEC, BS%, Ac and pH] describe the soil and its degree of acidity. The remaining 16 [P-I, K-I, Ca%, Mg%, Mn-I, Mn-AI1, Mn-AI2, Zn-I, Zn-AI, Cu-I, S-I, SS-I, Na, ESP, SS-I, NO_3-N (not routinely available)] indicate levels of plant nutrients or other fertility measurement. Visit *www.ncagr.gov/agronomi/uyrst.htm* for more information.

Report Abbreviations

Ac	exchangeable acidity
B	boron
BS%	% CEC occupied by basic cations
Ca%	% CEC occupied by calcium
CEC	cation exchange capacity
Cu-I	copper index
ESP	exchangeable sodium percent
HM%	percent humic matter
K-I	potassium index
K_2O	potash
Mg%	% CEC occupied by magnesium
MIN	mineral soil class
Mn	manganese
Mn-AI1	Mn-availability index for crop 1
Mn-AI2	Mn-availability index for crop 2
Mn-I	manganese index
M-O	mineral-organic soil class
N	nitrogen
Na	sodium
NO_3-N	nitrate nitrogen
ORG	organic soil class
pH	current soil pH
P-I	phosphorus index
P_2O_5	phosphate
S-I	sulfur index
SS-I	soluble salt index
W/V	weight per volume
Zn-AI	zinc availability index
Zn-I	zinc index

Pamlico County FSA
Farm 2374 Tract 734

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

	Acres	Crop	HEL	CRP
1	9.10		N	
2	9.65		N	
3	1.27		N	
4	4.26		N	

3 T/A

Pecan Trees
~~3~~ acres
.54 acre

Total Cropland Acres
24.3

NCDA&CS Agronomic Division Phone: (919) 733-2655 Website: www.ncagr.gov/agronomi/ Report No. FY14-SL019903

Predictive

Soil Report

Mehlich-3 Extraction

Client: Owen (OWP) Peele
282 Peele Rd.
Aurora, NC 278069603

Sampled County : Pamlico

Advisor: Sarah Arthur, LLC
3780 Hwy 58 N
Trenton, NC 28585

Sampled: 11/16/2013 **Received:** 11/18/2013 **Completed:** 12/18/2013 **Farm:** COW

Links to Helpful Information

Sample ID: 1

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	10	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	0	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
1.94	0.97	8.9	87	1.2	6.3	86	76	59	24	51	37	35	28	74	74	61	0.3	3		

Sample ID: 2

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	20	0	0	pH$	0	0	0	Note: 3 Note: $
2 - SG/Soybean (DC)	0.0	80-100	10	20	0	0	pH$	0	0	0	Note: 3 Note: $

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.60	1.02	6.8	92	0.6	6.7	63	67	60	27	44	46	34	27	87	87	60	0.3	4		

Sample ID: 3

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	30	50	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	40	70	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.36	1.06	5.9	89	0.6	6.4	50	46	59	26	29	46	38	31	98	98	57	0.2	3		

3 ~~4~~ T/A

North Carolina Tobacco Trust Fund Commission

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Thank you for using agronomic services to manage nutrients and safeguard environmental quality.
- *Steve Troxler, Commissioner of Agriculture*

Sample ID: 4

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	30	60	0	20	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	40	90	0	20	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.36	1.09	5.6	87	0.7	6.3	49	41	57	26	25	43	38	31	90	90	38	0.1	2		

Sample ID: 5

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	10	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	10	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
1.67	1.02	9.7	89	1.0	6.3	86	70	63	23	43	40	36	29	92	92	104	0.2	2		

Sample ID: 6

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	10	30	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	20	40	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.66	1.08	6.3	89	0.7	6.3	57	57	60	24	33	41	36	29	100	100	78	0.1	2		

Sample ID: 7

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	40	40	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	60	60	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.56	1.07	5.6	85	0.8	6.1	41	50	57	23	33	43	41	34	108	108	67	0.1	2		

Sample ID: 8

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	10	30	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	20	40	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.56	1.04	5.9	86	0.8	6.1	59	57	60	21	36	46	43	36	114	114	39	0.2	3		

Sample ID: 9

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	40	70	0	0	0	0	2	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	60	110	0	0	$pH	0	$	0	Note: 3 Note: $

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.76	1.11	6.2	86	0.8	6.2	41	34	62	21	37	29	31	24	81	81	24	0.2	3		

Sample ID: 10

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	30	50	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	40	90	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.51	1.11	4.6	83	0.8	6.1	47	42	59	20	29	42	41	34	111	111	64	0.1	2		

Sample ID: 11

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	30	60	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	40	90	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.56	1.10	5.5	86	0.8	6.2	50	41	60	22	28	44	40	33	147	147	50	0.1	2		

Understanding the Soil Report: explanation of measurements, abbreviations and units

Recommendations

Lime

If testing finds that soil pH is too low for the crop(s) indicated, a ***lime recommendation*** will be given in units of either ton/acre or lb/1000 sq ft. For best results, mix the lime into the top 6 to 8 inches of soil several months before planting. For no-till or established plantings where this is not possible, apply no more than 1 to 1.5 ton/acre (50 lb/1000 sq ft) at one time, even if the report recommends more. You can apply the rest in similar increments every six months until the full rate is applied. If MG is recommended and lime is needed, use dolomitric lime.

Fertilizer

Recommendations ***for field crops or other large areas*** are listed separately for each nutrient to be added (in units of lb/acre unless otherwise specified). Recommendations for N (and sometimes for B) are based on research/field studies for the crop being grown, not on soil test results. K-I and P-I values are based on test results and should be > 50. If they are not, follow the fertilizer recommendations given. If Mg is needed and no lime is recommended, 0-0-22 (11.5% Mg) is an excellent source; 175 to 250 lb per acre alone or in a fertilizer blend will usually satisfy crop needs, SS-I levels appear only on reports for greenhouse soil or problem samples.

Farmers and other commercial producers should pay special attention to ***micronutrient levels***. If *$*, *pH$*, *$pH*, *C* or *Z* notations appear on the soil report, refer to *$Note: Secondary Nutrients and Micronutrients*. In general, homeowners do not need to be concerned about micronutrients. Various crop notes also address lime fertilizer needs; visit ncagr.gov/agronomi/pubs.htm.

Recommendations ***for small areas, such as home lawns/gardens,*** are listed in units of lb/1000 sq ft . If you cannot find the exact fertilizer grade recommended on the report, visit *www.ncagr.gov/agronomi/obpart4.htm#fs* to find information that may help you choose a comparable alternate. For more information, read *A Homeowner's Guide to Fertilizer*.

Test Results

The first seven values [soil class, HM%, W/V, CEC, BS%, Ac and pH] describe the soil and its degree of acidity. The remaining 16 [P-I, K-I, Ca%, Mg%, Mn-I, Mn-AI1, Mn-AI2, Zn-I, Zn-AI, Cu-I, S-I, SS-I, Na, ESP, SS-I, NO_3-N (not routinely available)] indicate levels of plant nutrients or other fertility measurement. Visit *www.ncagr.gov/agronomi/uyrst.htm* for more information.

Report Abbreviations

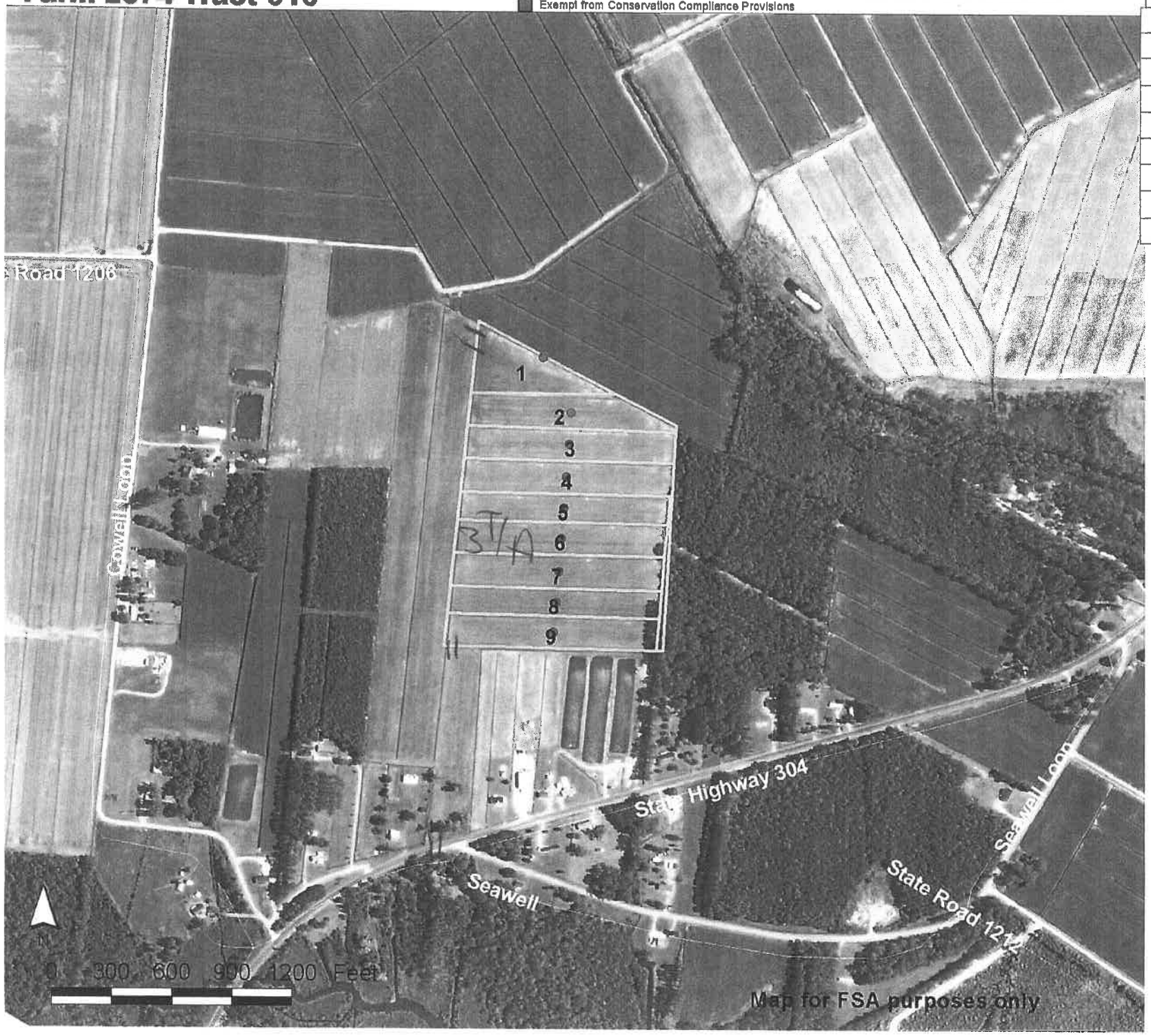
Ac	exchangeable acidity
B	boron
BS%	% CEC occupied by basic cations
Ca%	% CEC occupied by calcium
CEC	cation exchange capacity
Cu-I	copper index
ESP	exchangeable sodium percent
HM%	percent humic matter
K-I	potassium index
K_2O	potash
Mg%	% CEC occupied by magnesium
MIN	mineral soil class
Mn	manganese
Mn-AI1	Mn-availability index for crop 1
Mn-AI2	Mn-availability index for crop 2
Mn-I	manganese index
M-O	mineral-organic soil class
N	nitrogen
Na	sodium
NO_3-N	nitrate nitrogen
ORG	organic soil class
pH	current soil pH
P-I	phosphorus index
P_2O_5	phosphate
S-I	sulfur index
SS-I	soluble salt index
W/V	weight per volume
Zn-AI	zinc availability index
Zn-I	zinc index

Pamlico County FSA
Farm 2374 Tract 616

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

	Acres	Crop	HEL	CRP
1	2.92		N	
2	3.62		N	
3	3.74		N	
4	3.97		N	
5	3.32		N	
6	3.84		N	
7	4.02		N	
8	3.29		N	
9	3.86		N	



3 T/A

Pecan Trees

Total Cropland Acres
32.6

NCDA&CS Agronomic Division Phone: (919) 733-2655 Website: www.ncagr.gov/agronomi/ Report No. FY14-SL019904

Predictive

Soil Report

Mehlich-3 Extraction

Client: Owen (OWP) Peele
282 Peele Rd.
Aurora, NC 278069603

Sampled County : Pamlico

Advisor: Sarah Arthur, LLC
3780 Hwy 58 N
Trenton, NC 28585

Sampled: 11/16/2013 **Received:** 11/18/2013 **Completed:** 12/18/2013 **Farm:** SLD

Links to Helpful Information

Sample ID: 1

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.4	120 - 160	0	20	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	30	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
1.67	1.01	7.8	81	1.5	5.8	80	62	59	18	41	37	39	32	70	70	68	0.1	1		

Sample ID: 2

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	30	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	50	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
1.31	1.03	7.4	85	1.1	6.0	101	55	62	19	40	42	42	35	71	71	58	0.2	3		

Sample ID: 3

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	50	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	10	80	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
1.08	1.04	6.3	83	1.1	6.0	62	44	56	23	35	35	38	31	73	73	59	0.1	2		

3 ~~4~~ TIA

North Carolina Tobacco Trust Fund Commission

Reprogramming of the laboratory-information-management system that makes this report possible is being funded through a grant from the North Carolina Tobacco Trust Fund Commission.

Thank you for using agronomic services to manage nutrients and safeguard environmental quality.
- *Steve Troxler, Commissioner of Agriculture*

Sample ID: 4

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	30	60	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	40	90	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.76	1.09	5.6	81	1.0	5.9	49	40	54	24	35	35	38	31	55	55	54	0.1	2		

Sample ID: 5

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	30	60	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	40	100	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.66	1.07	5.2	84	0.8	6.1	48	39	59	21	38	35	36	29	47	47	39	0.2	4		

Sample ID: 6

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	30	60	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	40	100	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.41	1.13	5.2	82	0.9	6.1	47	39	57	22	37	37	38	31	70	70	68	0.2	4		

Sample ID: 7

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.3	120 - 160	30	60	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	40	90	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.41	1.12	5.3	79	1.1	5.8	48	41	54	21	28	36	39	32	89	89	49	0.1	2		

Sample ID: 8

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	40	50	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	50	70	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.46	1.11	5.3	80	1.0	5.9	43	47	54	21	30	33	37	30	85	85	74	0.1	2		

Sample ID: 9

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	50	50	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	70	90	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.51	1.10	5.9	82	1.1	5.9	37	42	59	19	27	34	37	30	91	91	53	0.1	2		

Understanding the Soil Report: explanation of measurements, abbreviations and units

Recommendations

Lime

If testing finds that soil pH is too low for the crop(s) indicated, a ***lime recommendation*** will be given in units of either ton/acre or lb/1000 sq ft. For best results, mix the lime into the top 6 to 8 inches of soil several months before planting. For no-till or established plantings where this is not possible, apply no more than 1 to 1.5 ton/acre (50 lb/1000 sq ft) at one time, even if the report recommends more. You can apply the rest in similar increments every six months until the full rate is applied. If MG is recommended and lime is needed, use dolomitric lime.

Fertilizer

Recommendations ***for field crops or other large areas*** are listed separately for each nutrient to be added (in units of lb/acre unless otherwise specified). Recommendations for N (and sometimes for B) are based on research/field studies for the crop being grown, not on soil test results. K-I and P-I values are based on test results and should be > 50. If they are not, follow the fertilizer recommendations given. If Mg is needed and no lime is recommended, 0-0-22 (11.5% Mg) is an excellent source; 175 to 250 lb per acre alone or in a fertilizer blend will usually satisfy crop needs, SS-I levels appear only on reports for greenhouse soil or problem samples.

Farmers and other commercial producers should pay special attention to ***micronutrient levels***. If *$*, *pH$*, *$pH*, *C* or *Z* notations appear on the soil report, refer to *$Note: Secondary Nutrients and Micronutrients*. In general, homeowners do not need to be concerned about micronutrients. Various crop notes also address lime fertilizer needs; visit ncagr.gov/agronomi/pubs.htm.

Recommendations ***for small areas, such as home lawns/gardens,*** are listed in units of lb/1000 sq ft . If you cannot find the exact fertilizer grade recommended on the report, visit *www.ncagr.gov/agronomi/obpart4.htm#fs* to find information that may help you choose a comparable alternate. For more information, read *A Homeowner's Guide to Fertilizer.*

Test Results

The first seven values [soil class, HM%, W/V, CEC, BS%, Ac and pH] describe the soil and its degree of acidity. The remaining 16 [P-I, K-I, Ca%, Mg%, Mn-I, Mn-AI1, Mn-AI2, Zn-I, Zn-AI, Cu-I, S-I, SS-I, Na, ESP, SS-I, NO_3-N (not routinely available)] indicate levels of plant nutrients or other fertility measurement. Visit *www.ncagr.gov/agronomi/uyrst.htm* for more information.

Report Abbreviations

Ac	exchangeable acidity
B	boron
BS%	% CEC occupied by basic cations
Ca%	% CEC occupied by calcium
CEC	cation exchange capacity
Cu-I	copper index
ESP	exchangeable sodium percent
HM%	percent humic matter
K-I	potassium index
K_2O	potash
Mg%	% CEC occupied by magnesium
MIN	mineral soil class
Mn	manganese
Mn-AI1	Mn-availability index for crop 1
Mn-AI2	Mn-availability index for crop 2
Mn-I	manganese index
M-O	mineral-organic soil class
N	nitrogen
Na	sodium
NO_3-N	nitrate nitrogen
ORG	organic soil class
pH	current soil pH
P-I	phosphorus index
P_2O_5	phosphate
S-I	sulfur index
SS-I	soluble salt index
W/V	weight per volume
Zn-AI	zinc availability index
Zn-I	zinc index

Pamlico County FSA
Farm 2816 Tract 1715

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

Tract	Acres	Crop	HEL	CRP
1	2.56		N	
2	2.52		N	
3	5.10		N	
4	2.68		N	
5	3.62		N	

Judy's

@ hut

Total Cropland Acres
16.5

NCDA&CS Agronomic Division Phone: (919) 733-2655 Website: www.ncagr.gov/agronomi/ Report No. FY14-SL019895

Predictive

Soil Report

Mehlich-3 Extraction

Client: Owen (OWP) Peele
282 Peele Rd.
Aurora, NC 278069603

Sampled County : Pamlico

Advisor: Sarah Arthur, LLC
3780 Hwy 58 N
Trenton, NC 28585

Sampled: 11/16/2013 **Received:** 11/18/2013 **Completed:** 12/18/2013 **Farm:** CON

Links to Helpful Information

Sample ID: 1

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.8	120 - 160	0	60	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	100	0	0	0	0	0	0	Note: 3

Nutrients (lb/acre)

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
1.87	1.08	6.2	69	2.0	5.6	118	38	54	11	37	37	39	32	48	48	88	0.1	2		

Sample ID: 2

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.4	120 - 160	0	70	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	110	0	0	0	0	0	0	Note: 3

Nutrients (lb/acre)

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
1.87	1.10	6.7	76	1.6	5.8	94	35	60	13	39	34	37	30	55	55	92	0.1	1		

Sample ID: 3

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.5	120 - 160	0	40	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	60	0	0	0	0	0	0	Note: 3

Nutrients (lb/acre)

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
2.15	1.07	7.7	77	1.8	5.8	76	51	61	12	35	40	41	34	118	118	140	0.1	1		

3 ~~4~~ T/A

North Carolina Tobacco Trust Fund Commission

Reprogramming of the laboratory-information-management system that makes this report possible is being funded through a grant from the North Carolina Tobacco Trust Fund Commission.

Thank you for using agronomic services to manage nutrients and safeguard environmental quality.
- *Steve Troxler, Commissioner of Agriculture*

Owen (OWP) Peele

Sample ID: 4

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	50	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	70	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
2.08	1.09	8.2	85	1.2	6.2	70	47	66	16	32	32	33	26	70	70	107	0.1	1		

Sample ID: 5

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	1.0	120 - 160	0	10	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	0	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
3.37	1.06	8.1	71	2.4	5.6	69	72	56	11	39	42	42	35	55	55	60	0.1	1		

Sample ID: 6

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	30	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	50	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral-Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
3.87	1.07	8.4	72	2.4	5.7	151	55	57	12	42	42	47	40	59	74	86	0.1	1		

Understanding the Soil Report: explanation of measurements, abbreviations and units

Recommendations

Lime

If testing finds that soil pH is too low for the crop(s) indicated, a ***lime recommendation*** will be given in units of either ton/acre or lb/1000 sq ft. For best results, mix the lime into the top 6 to 8 inches of soil several months before planting. For no-till or established plantings where this is not possible, apply no more than 1 to 1.5 ton/acre (50 lb/1000 sq ft) at one time, even if the report recommends more. You can apply the rest in similar increments every six months until the full rate is applied. If MG is recommended and lime is needed, use dolomitric lime.

Fertilizer

Recommendations ***for field crops or other large areas*** are listed separately for each nutrient to be added (in units of lb/acre unless otherwise specified). Recommendations for N (and sometimes for B) are based on research/field studies for the crop being grown, not on soil test results. K-I and P-I values are based on test results and should be > 50. If they are not, follow the fertilizer recommendations given. If Mg is needed and no lime is recommended, 0-0-22 (11.5% Mg) is an excellent source; 175 to 250 lb per acre alone or in a fertilizer blend will usually satisfy crop needs, SS-I levels appear only on reports for greenhouse soil or problem samples.

Farmers and other commercial producers should pay special attention to ***micronutrient levels***. If *$*, *pH$*, *$pH*, *C* or *Z* notations appear on the soil report, refer to *$Note: Secondary Nutrients and Micronutrients*. In general, homeowners do not need to be concerned about micronutrients. Various crop notes also address lime fertilizer needs; visit ncagr.gov/agronomi/pubs.htm.

Recommendations ***for small areas, such as home lawns/gardens,*** are listed in units of lb/1000 sq ft . If you cannot find the exact fertilizer grade recommended on the report, visit *www.ncagr.gov/agronomi/obpart4.htm#fs* to find information that may help you choose a comparable alternate. For more information, read *A Homeowner's Guide to Fertilizer*.

Test Results

The first seven values [soil class, HM%, W/V, CEC, BS%, Ac and pH] describe the soil and its degree of acidity. The remaining 16 [P-I, K-I, Ca%, Mg%, Mn-I, Mn-AI1, Mn-AI2, Zn-I, Zn-AI, Cu-I, S-I, SS-I, Na, ESP, SS-I, NO_3-N (not routinely available)] indicate levels of plant nutrients or other fertility measurement. Visit *www.ncagr.gov/agronomi/uyrst.htm* for more information.

Report Abbreviations

Ac	exchangeable acidity
B	boron
BS%	% CEC occupied by basic cations
Ca%	% CEC occupied by calcium
CEC	cation exchange capacity
Cu-I	copper index
ESP	exchangeable sodium percent
HM%	percent humic matter
K-I	potassium index
K_2O	potash
Mg%	% CEC occupied by magnesium
MIN	mineral soil class
Mn	manganese
Mn-AI1	Mn-availability index for crop 1
Mn-AI2	Mn-availability index for crop 2
Mn-I	manganese index
M-O	mineral-organic soil class
N	nitrogen
Na	sodium
NO_3-N	nitrate nitrogen
ORG	organic soil class
pH	current soil pH
P-I	phosphorus index
P_2O_5	phosphate
S-I	sulfur index
SS-I	soluble salt index
W/V	weight per volume
Zn-AI	zinc availability index
Zn-I	zinc index

Pamlico County FSA
Farm 2860 Tract 1095

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland Identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

F	Acres	Crop	HEL	CRP
5	0.72		N	
6	1.17		N	
7	1.72		N	
8	1.96		N	
14	2.59		N	
18	3.64		N	
25	3.88		N	
27	3.63		N	

3 T/A

Judy's

Behind Hut

Total Cropland Acres
19.3

NCDA&CS Agronomic Division Phone: (919) 733-2655 Website: www.ncagr.gov/agronomi/ Report No. FY14-SL019896

Predictive

Soil Report

Mehlich-3 Extraction

Client: Owen (OWP) Peele
282 Peele Rd.
Aurora, NC 278069603

Sampled County : Pamlico

Advisor: Sarah Arthur, LLC
3780 Hwy 58 N
Trenton, NC 28585

Sampled: 11/16/2013 **Received:** 11/18/2013 **Completed:** 12/18/2013 **Farm:** BAR

Links to Helpful Information

Sample ID: 1

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	20	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	20	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
2.15	1.06	8.1	78	1.8	6.1	278	66	58	16	50	38	39	32	119	119	200	0.1	1		

Sample ID: 2

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.6	120 - 160	0	20	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	30	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
2.68	1.08	7.9	72	2.2	5.8	276	62	54	14	48	37	39	32	111	111	203	0.1	1		

Sample ID: 3

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.3	120 - 160	0	30	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	40	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
2.22	1.05	7.7	77	1.8	5.9	278	59	58	15	52	40	41	34	108	108	244	0.1	1		

3 ~~4~~ T/A

North Carolina
Tobacco Trust Fund Commission

Reprogramming of the laboratory-information-management system that makes this report possible is being funded through a grant from the North Carolina Tobacco Trust Fund Commission.

Thank you for using agronomic services to manage nutrients and safeguard environmental quality.
- *Steve Troxler, Commissioner of Agriculture*

Owen (OWP) Peele

Sample ID: 4

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	50	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	70	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
1.87	1.06	6.0	73	1.6	5.9	241	46	54	15	47	39	40	33	105	105	210	0.1	2		

Sample ID: 5

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	40	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	70	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
2.29	1.03	8.6	81	1.6	6.0	244	48	61	18	50	38	39	32	140	140	236	0.2	2		

Sample ID: 6

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	50	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	70	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
2.15	1.05	7.5	80	1.5	6.1	218	46	59	18	48	36	37	30	143	143	218	0.1	1		

Sample ID: 7

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information	
1 - Corn, grain	0.0	120 - 160	0	20	0	0	0	0	0	0	Note: 3	
2 - SG/Soybean (DC)	0.0	80-100	0	30	0	0	$pH	0	0	0	Note: 3	Note: $

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
2.37	1.03	8.3	84	1.4	6.2	122	62	62	18	44	29	32	25	110	110	115	0.2	2		

Sample ID: 8

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.5	120 - 160	0	30	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	30	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
3.01	1.03	7.0	70	2.1	5.8	71	61	55	11	48	27	33	26	56	56	62	0.2	3		

Sample ID: 9

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	30	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	40	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral-Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
4.09	1.04	8.2	70	2.4	5.7	83	58	54	12	43	22	35	28	70	88	61	0.2	2		

Sample ID: 10

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	20	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	20	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral-Organic

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
4.09	1.05	9.1	74	2.4	5.7	70	67	59	12	42	37	44	37	59	74	58	0.1	1		

Sample ID: 11

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.5	120 - 160	0	50	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	10	70	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
3.28	1.07	8.7	78	1.9	5.8	63	46	61	15	33	33	37	30	59	59	54	0.1	1		

Understanding the Soil Report: explanation of measurements, abbreviations and units

Recommendations

Lime

If testing finds that soil pH is too low for the crop(s) indicated, a ***lime recommendation*** will be given in units of either ton/acre or lb/1000 sq ft. For best results, mix the lime into the top 6 to 8 inches of soil several months before planting. For no-till or established plantings where this is not possible, apply no more than 1 to 1.5 ton/acre (50 lb/1000 sq ft) at one time, even if the report recommends more. You can apply the rest in similar increments every six months until the full rate is applied. If MG is recommended and lime is needed, use dolomitric lime.

Fertilizer

Recommendations ***for field crops or other large areas*** are listed separately for each nutrient to be added (in units of lb/acre unless otherwise specified). Recommendations for N (and sometimes for B) are based on research/field studies for the crop being grown, not on soil test results. K-I and P-I values are based on test results and should be > 50. If they are not, follow the fertilizer recommendations given. If Mg is needed and no lime is recommended, 0-0-22 (11.5% Mg) is an excellent source; 175 to 250 lb per acre alone or in a fertilizer blend will usually satisfy crop needs, SS-I levels appear only on reports for greenhouse soil or problem samples.

Farmers and other commercial producers should pay special attention to ***micronutrient levels***. If *$*, *pH$*, *$pH*, *C* or *Z* notations appear on the soil report, refer to *$Note: Secondary Nutrients and Micronutrients*. In general, homeowners do not need to be concerned about micronutrients. Various crop notes also address lime fertilizer needs; visit ncagr.gov/agronomi/pubs.htm.

Recommendations ***for small areas, such as home lawns/gardens,*** are listed in units of lb/1000 sq ft . If you cannot find the exact fertilizer grade recommended on the report, visit *www.ncagr.gov/agronomi/obpart4.htm#fs* to find information that may help you choose a comparable alternate. For more information, read *A Homeowner's Guide to Fertilizer.*

Test Results

The first seven values [soil class, HM%, W/V, CEC, BS%, Ac and pH] describe the soil and its degree of acidity. The remaining 16 [P-I, K-I, Ca%, Mg%, Mn-I, Mn-AI1, Mn-AI2, Zn-I, Zn-AI, Cu-I, S-I, SS-I, Na, ESP, SS-I, NO_3-N (not routinely available)] indicate levels of plant nutrients or other fertility measurement. Visit *www.ncagr.gov/agronomi/uyrst.htm* for more information.

Report Abbreviations

Ac	exchangeable acidity
B	boron
BS%	% CEC occupied by basic cations
Ca%	% CEC occupied by calcium
CEC	cation exchange capacity
Cu-I	copper index
ESP	exchangeable sodium percent
HM%	percent humic matter
K-I	potassium index
K_2O	potash
Mg%	% CEC occupied by magnesium
MIN	mineral soil class
Mn	manganese
Mn-AI1	Mn-availability index for crop 1
Mn-AI2	Mn-availability index for crop 2
Mn-I	manganese index
M-O	mineral-organic soil class
N	nitrogen
Na	sodium
NO_3-N	nitrate nitrogen
ORG	organic soil class
pH	current soil pH
P-I	phosphorus index
P_2O_5	phosphate
S-I	sulfur index
SS-I	soluble salt index
W/V	weight per volume
Zn-AI	zinc availability index
Zn-I	zinc index

Pamlico County FSA
Farm 2816 Tract 761

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

Field	Acres	Crop	HEL	CRP
1	3.46		N	
2	3.09		N	
3	1.61		N	
4	4.04		N	
5	5.70		N	
6	6.20		N	
7	6.67		N	
8	7.84		N	

4 T/A

judy's

Total Cropland Acres
38.6

NCDA&CS Agronomic Division Phone: (919) 733-2655 Website: www.ncagr.gov/agronomi/ Report No. FY14-SL019900

Predictive

Soil Report

Mehlich-3 Extraction

Client: Owen (OWP) Peele
282 Peele Rd.
Aurora, NC 278069603

Sampled County : Pamlico

Advisor: Sarah Arthur, LLC
3780 Hwy 58 N
Trenton, NC 28585

Sampled: 11/16/2013 **Received:** 11/18/2013 **Completed:** 12/18/2013 **Farm:** ROB

Links to Helpful Information

Sample ID: 1

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.3	120 - 160	0	60	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	100	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.60	1.09	4.1	70	1.2	5.8	87	39	50	15	44	35	38	31	74	74	57	0.2	5		

Sample ID: 2

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	60	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	100	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.46	1.14	4.2	73	1.1	5.9	66	38	50	19	42	35	38	31	78	78	53	0.3	7		

Sample ID: 3

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.4	120 - 160	0	60	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	100	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.46	1.14	4.2	69	1.3	5.7	101	39	48	16	34	32	36	29	77	77	64	0.1	2		

4 T/A

North Carolina Tobacco Trust Fund Commission

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Thank you for using agronomic services to manage nutrients and safeguard environmental quality.
- *Steve Troxler, Commissioner of Agriculture*

Sample ID: 4

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	10	60	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	20	100	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.46	1.12	4.1	74	1.1	6.0	59	37	50	20	50	32	36	29	78	78	56	0.3	7		

Sample ID: 5

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	40	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	60	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.60	1.07	4.5	74	1.2	6.0	93	50	52	17	48	38	40	33	62	62	65	0.2	4		

Sample ID: 6

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	60	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	90	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.51	1.15	3.9	75	1.0	6.0	75	40	51	20	41	30	35	28	54	54	50	0.2	5		

Sample ID: 7

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	10	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	0	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.81	1.03	6.5	85	1.0	6.0	151	72	63	16	49	39	40	33	87	87	109	0.2	3		

Sample ID: 8

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	0	30	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	40	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO_3-N
0.66	1.04	6.1	83	1.0	6.1	115	58	65	13	41	36	37	30	54	54	87	0.2	3		

Understanding the Soil Report: explanation of measurements, abbreviations and units

Recommendations

Lime

If testing finds that soil pH is too low for the crop(s) indicated, a ***lime recommendation*** will be given in units of either ton/acre or lb/1000 sq ft. For best results, mix the lime into the top 6 to 8 inches of soil several months before planting. For no-till or established plantings where this is not possible, apply no more than 1 to 1.5 ton/acre (50 lb/1000 sq ft) at one time, even if the report recommends more. You can apply the rest in similar increments every six months until the full rate is applied. If MG is recommended and lime is needed, use dolomitric lime.

Fertilizer

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Farmers and other commercial producers should pay special attention to ***micronutrient levels***. If *$*, *pH$*, *$pH*, *C* or *Z* notations appear on the soil report, refer to *$Note: Secondary Nutrients and Micronutrients*. In general, homeowners do not need to be concerned about micronutrients. Various crop notes also address lime fertilizer needs; visit ncagr.gov/agronomi/pubs.htm.

Recommendations ***for small areas, such as home lawns/gardens,*** are listed in units of lb/1000 sq ft . If you cannot find the exact fertilizer grade recommended on the report, visit *www.ncagr.gov/agronomi/obpart4.htm#fs* to find information that may help you choose a comparable alternate. For more information, read *A Homeowner's Guide to Fertilizer.*

Test Results

The first seven values [soil class, HM%, W/V, CEC, BS%, Ac and pH] describe the soil and its degree of acidity. The remaining 16 [P-I, K-I, Ca%, Mg%, Mn-I, Mn-AI1, Mn-AI2, Zn-I, Zn-AI, Cu-I, S-I, SS-I, Na, ESP, SS-I, NO_3-N (not routinely available)] indicate levels of plant nutrients or other fertility measurement. Visit *www.ncagr.gov/agronomi/uyrst.htm* for more information.

Report Abbreviations

Ac	exchangeable acidity
B	boron
BS%	% CEC occupied by basic cations
Ca%	% CEC occupied by calcium
CEC	cation exchange capacity
Cu-I	copper index
ESP	exchangeable sodium percent
HM%	percent humic matter
K-I	potassium index
K_2O	potash
Mg%	% CEC occupied by magnesium
MIN	mineral soil class
Mn	manganese
Mn-AI1	Mn-availability index for crop 1
Mn-AI2	Mn-availability index for crop 2
Mn-I	manganese index
M-O	mineral-organic soil class
N	nitrogen
Na	sodium
NO_3-N	nitrate nitrogen
ORG	organic soil class
pH	current soil pH
P-I	phosphorus index
P_2O_5	phosphate
S-I	sulfur index
SS-I	soluble salt index
W/V	weight per volume
Zn-AI	zinc availability index
Zn-I	zinc index

Pamlico County FSA
Farm 2816 Tract 1975

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

Fld	Acres	Crop	HEL	CRP
14	1.63		N	
15	4.91		N	
16	6.66		N	
17	6.48		N	
18	6.59		N	
19	4.51		N	
20	4.18		N	
21	3.81		N	
32	1.06		N	
33	1.25		N	

4 T/A

Noltax

Total Cropland Acres
41.1

Pamlico County FSA
Farm 2817 Tract 1976

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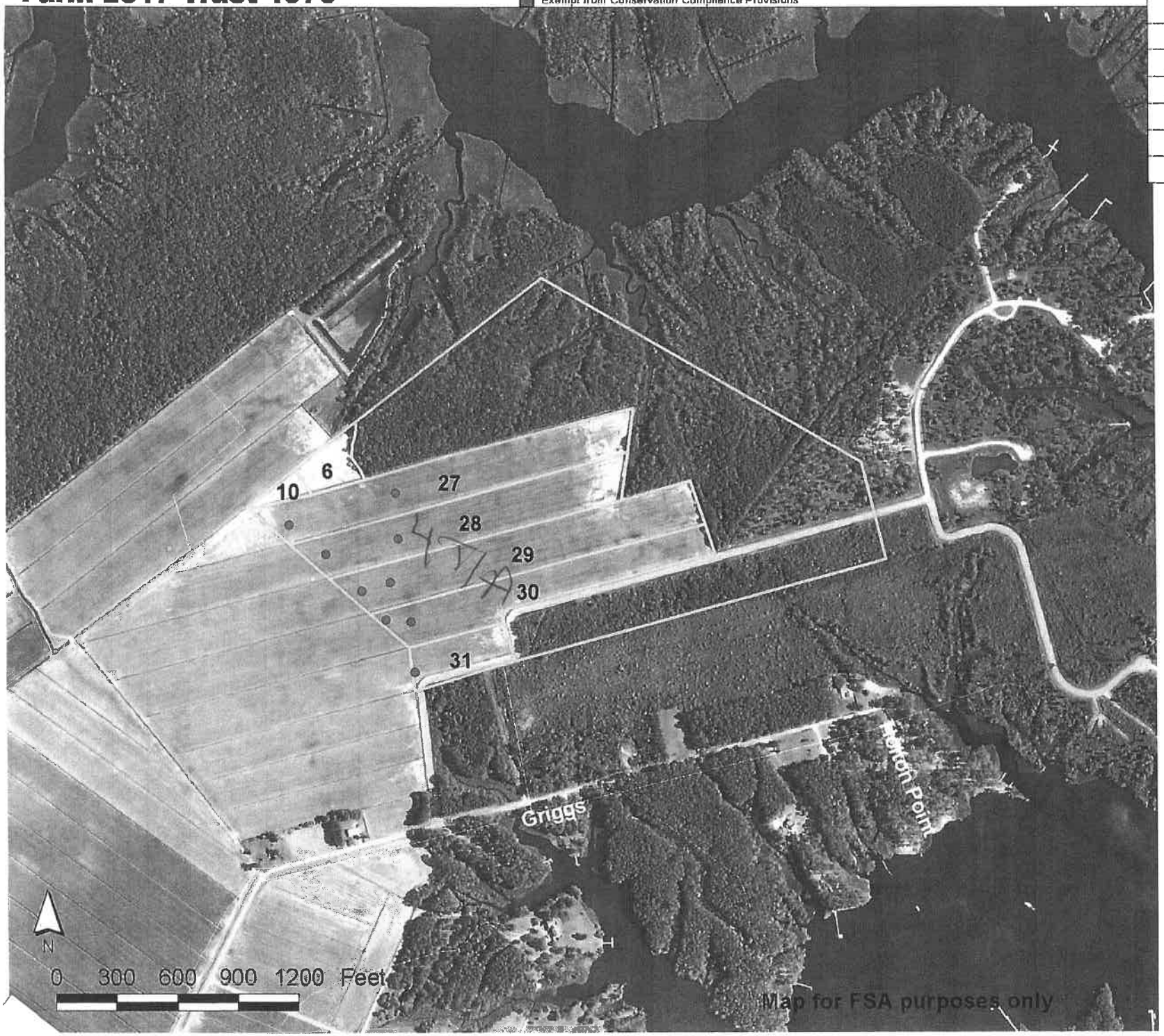
F	Acres	Crop	HEL	CRP
6	1.40		N	
10	0.57		N	
27	8.86		N	
28	7.90		N	
29	8.85		N	
30	6.44		N	
31	2.34		N	



Total Cropland Acres
36.4

NCDA&CS Agronomic Division Phone: (919) 733-2655 Website: www.ncagr.gov/agronomi/ Report No. FY14-SL019902

Predictive

Soil Report

Mehlich-3 Extraction

Client: Owen (OWP) Peele
282 Peele Rd.
Aurora, NC 278069603

Sampled County : Pamlico

Advisor: Sarah Arthur, LLC
3780 Hwy 58 N
Trenton, NC 28585

Sampled: 11/16/2013 **Received:** 11/18/2013 **Completed:** 12/18/2013 **Farm:** GRI

Links to Helpful Information

Sample ID: 1

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	70	60	0	0	$pH	0	0	0	Note: 3 Note: $
2 - SG/Soybean (DC)	0.0	80-100	90	100	0	0	$pH	0	0	0	Note: 3 Note: $

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.60	1.09	9.1	100	0.0	7.3	30	39	82	16	47	39	21	14	42	42	33	0.6	7		

Sample ID: 2

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	90	50	0	0	pH$	0	0	0	Note: 3 Note: $
2 - SG/Soybean (DC)	0.0	80-100	120	80	0	0	$pH	0	0	0	Note: 3 Note: $

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
1.08	1.04	10.7	98	0.2	7.0	22	44	81	15	32	40	26	19	81	81	43	0.2	2		

Sample ID: 3

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	80	60	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	110	90	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
1.55	1.07	8.7	87	1.1	6.2	25	40	61	23	30	39	37	30	113	113	36	0.2	2		

4 T/A

North Carolina
Tobacco Trust Fund Commission

Reprogramming of the laboratory-information-management system that makes this report possible is being funded through a grant from the North Carolina Tobacco Trust Fund Commission.

Thank you for using agronomic services to manage nutrients and safeguard environmental quality.
- *Steve Troxler, Commissioner of Agriculture*

Sample ID: 4

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.5	120 - 160	70	50	0	20	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	90	80	0	20	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
2.29	1.04	8.0	78	1.8	5.8	29	43	55	21	24	39	40	33	85	85	30	0.2	3		

Sample ID: 5

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	50	50	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	70	80	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
2.22	1.04	9.9	87	1.3	6.0	37	44	57	28	47	37	39	32	113	113	36	1.0	10		

Sample ID: 6

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	10	40	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	20	60	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.97	1.04	8.2	88	1.0	6.2	56	50	61	23	36	40	38	31	140	140	48	0.2	2		

Sample ID: 7

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	80	50	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	100	70	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
1.43	1.02	8.3	86	1.2	6.1	26	47	59	24	35	43	41	34	123	123	34	0.3	4		

Sample ID: 8

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.5	120 - 160	60	40	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	90	60	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
2.44	0.97	8.6	78	1.9	5.8	31	51	53	22	34	37	39	32	90	90	34	0.3	3		

Sample ID: 9

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.4	120 - 160	50	60	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	70	100	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
2.29	1.02	8.8	81	1.6	5.8	39	39	52	28	51	35	38	31	104	104	27	1.0	11		

Sample ID: 10

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	50	50	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	70	80	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.60	1.09	6.7	84	1.1	5.9	37	43	58	23	31	47	45	38	143	143	57	0.2	3		

Sample ID: 11

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	70	40	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	90	60	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
1.31	1.02	9.3	88	1.1	6.3	29	49	60	26	35	41	37	30	126	126	53	0.2	2		

Sample ID: 12

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.3	120 - 160	60	50	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	80	70	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
2.22	1.03	9.2	80	1.8	5.9	34	46	55	23	30	36	39	32	109	109	39	0.2	2		

Sample ID: 13

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.5	120 - 160	50	50	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	70	80	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
2.37	0.98	9.2	79	1.9	5.8	37	44	54	23	28	40	41	34	98	98	35	0.3	3		

Sample ID: 14

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	30	40	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	40	60	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
1.74	1.02	8.6	84	1.4	6.0	48	49	54	27	46	45	44	37	137	137	48	0.5	6		

Sample ID: 15

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	50	60	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	70	90	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.51	1.07	6.7	86	0.9	6.2	37	40	59	25	41	53	45	38	104	104	46	0.3	4		

Sample ID: 16

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	60	50	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	90	80	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.97	1.01	7.5	82	1.4	5.9	32	43	57	22	39	49	46	39	75	75	31	0.3	4		

Sample ID: 17

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.5	120 - 160	70	60	0	0	0	0	2	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	100	90	0	0	0	0	$	0	Note: 3 Note: $

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
1.94	0.98	8.1	78	1.8	5.8	28	41	54	22	39	41	42	35	85	85	25	0.3	4		

Sample ID: 18

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.5	120 - 160	80	50	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	110	70	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
1.94	1.00	8.2	78	1.8	5.8	24	46	53	22	44	42	42	35	88	88	28	0.4	5		

Sample ID: 19

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.6	120 - 160	50	60	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	70	100	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
2.15	1.05	8.9	79	1.9	5.7	37	39	53	24	47	45	44	37	105	105	29	0.5	6		

Sample ID: 20

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	40	60	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	50	100	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.60	1.09	6.8	84	1.1	6.1	43	39	58	23	47	50	45	38	106	106	38	0.3	4		

Sample ID: 21

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	70	70	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	90	120	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.71	1.08	5.9	84	1.0	6.1	30	33	58	23	37	49	45	38	95	95	27	0.2	3		

Sample ID: 22

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	50	60	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	70	100	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
1.25	1.07	8.5	86	1.2	6.2	39	37	60	24	33	57	48	41	100	100	42	0.3	4		

Sample ID: 23

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	40	50	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	50	70	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.56	1.09	6.6	88	0.8	6.2	43	47	58	26	37	43	39	32	129	129	41	0.2	3		

Sample ID: 24

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	70	60	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	100	100	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.71	1.07	6.6	88	0.8	6.2	27	39	58	27	39	45	42	35	99	99	39	0.4	6		

Sample ID: 25

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	50	60	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	70	90	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.56	1.08	6.7	87	0.8	6.3	39	40	59	25	40	43	39	32	110	110	43	0.3	4		

Sample ID: 26

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	50	60	0	0	pH$	0	0	0	Note: 3 Note: $
2 - SG/Soybean (DC)	0.0	80-100	70	100	0	0	pH$	0	0	0	Note: 3 Note: $

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.60	1.14	6.2	90	0.6	6.5	38	39	60	27	39	47	37	30	103	103	42	0.3	5		

Sample ID: 27

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	40	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	0	60	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.60	1.11	7.7	90	0.8	6.5	88	50	61	25	45	43	36	29	167	167	60	0.3	4		

Sample ID: 28

Lime History:

Recommendations: Crop	Lime (tons/acre)	Nutrients (lb/acre) N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
1 - Corn, grain	0.0	120 - 160	50	60	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	70	90	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm^3; CEC and Na in meq/100 cm^3; NO_3-N in mg/dm^3]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO_3-N
0.60	1.12	6.5	88	0.8	6.2	37	40	58	27	43	36	36	29	114	114	40	0.6	9		

Understanding the Soil Report: explanation of measurements, abbreviations and units

Recommendations

Lime

If testing finds that soil pH is too low for the crop(s) indicated, a ***lime recommendation*** will be given in units of either ton/acre or lb/1000 sq ft. For best results, mix the lime into the top 6 to 8 inches of soil several months before planting. For no-till or established plantings where this is not possible, apply no more than 1 to 1.5 ton/acre (50 lb/1000 sq ft) at one time, even if the report recommends more. You can apply the rest in similar increments every six months until the full rate is applied. If MG is recommended and lime is needed, use dolomitric lime.

Fertilizer

Recommendations ***for field crops or other large areas*** are listed separately for each nutrient to be added (in units of lb/acre unless otherwise specified). Recommendations for N (and sometimes for B) are based on research/field studies for the crop being grown, not on soil test results. K-I and P-I values are based on test results and should be > 50. If they are not, follow the fertilizer recommendations given. If Mg is needed and no lime is recommended, 0-0-22 (11.5% Mg) is an excellent source; 175 to 250 lb per acre alone or in a fertilizer blend will usually satisfy crop needs, SS-I levels appear only on reports for greenhouse soil or problem samples.

Farmers and other commercial producers should pay special attention to ***micronutrient levels***. If *$*, *pH$*, *$pH*, *C* or *Z* notations appear on the soil report, refer to *$Note: Secondary Nutrients and Micronutrients*. In general, homeowners do not need to be concerned about micronutrients. Various crop notes also address lime fertilizer needs; visit ncagr.gov/agronomi/pubs.htm.

Recommendations ***for small areas, such as home lawns/gardens,*** are listed in units of lb/1000 sq ft . If you cannot find the exact fertilizer grade recommended on the report, visit *www.ncagr.gov/agronomi/obpart4.htm#fs* to find information that may help you choose a comparable alternate. For more information, read *A Homeowner's Guide to Fertilizer.*

Test Results

The first seven values [soil class, HM%, W/V, CEC, BS%, Ac and pH] describe the soil and its degree of acidity. The remaining 16 [P-I, K-I, Ca%, Mg%, Mn-I, Mn-AI1, Mn-AI2, Zn-I, Zn-AI, Cu-I, S-I, SS-I, Na, ESP, SS-I, NO_3-N (not routinely available)] indicate levels of plant nutrients or other fertility measurement. Visit *www.ncagr.gov/agronomi/uyrst.htm* for more information.

Report Abbreviations

Ac	exchangeable acidity
B	boron
BS%	% CEC occupied by basic cations
Ca%	% CEC occupied by calcium
CEC	cation exchange capacity
Cu-I	copper index
ESP	exchangeable sodium percent
HM%	percent humic matter
K-I	potassium index
K_2O	potash
Mg%	% CEC occupied by magnesium
MIN	mineral soil class
Mn	manganese
Mn-AI1	Mn-availability index for crop 1
Mn-AI2	Mn-availability index for crop 2
Mn-I	manganese index
M-O	mineral-organic soil class
N	nitrogen
Na	sodium
NO_3-N	nitrate nitrogen
ORG	organic soil class
pH	current soil pH
P-I	phosphorus index
P_2O_5	phosphate
S-I	sulfur index
SS-I	soluble salt index
W/V	weight per volume
Zn-AI	zinc availability index
Zn-I	zinc index

Pamlico County FSA
Farm 2816 Tract 760

Wetland Determination Identifiers

- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

Field	Acres	Crop	HEL	CR
1	9.00		N	
2	8.84		N	
3	9.53		N	

3 T/A

Hatteras
off Griggs Rd
@ creek on left

NCDA&CS Agronomic Division | Phone: (919) 733-2655 | Website: www.ncagr.gov/agronomi/ | Report No. FY14-SL019901

Predictive

Soil Report

Mehlich-3 Extraction

Client: Owen (OWP) Peele
282 Peele Rd.
Aurora, NC 278069603

Sampled County : Pamlico

Advisor: Sarah Arthur, LLC
3780 Hwy 58 N
Trenton, NC 28585

Sampled: 11/16/2011 **Received:** 11/18/2013 **Completed:** 12/18/2013 **Farm:** HOL

Links to Helpful Information

Sample ID: 1

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	20	60	0	0	pH$	0	0	0	Note: 3 Note: $
2 - SG/Soybean (DC)	0.0	80-100	30	100	0	0	pH$	0	0	0	Note: 3 Note: $

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.76	1.04	6.7	89	0.7	6.6	54	37	58	28	44	64	46	39	71	71	65	0.4	6		

Sample ID: 2

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	0	50	0	0	pH$	0	0	0	Note: 3 Note: $
2 - SG/Soybean (DC)	0.0	80-100	0	80	0	0	pH$	0	0	0	Note: 3 Note: $

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
1.49	1.05	8.8	90	0.9	6.5	73	43	59	28	49	58	44	37	76	76	66	0.3	3		

Sample ID: 3

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	10	50	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	20	80	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
2.37	1.02	9.2	86	1.2	6.2	56	43	58	26	44	54	46	39	66	66	57	0.3	3		

3 ~~4~~ T/A

North Carolina
Tobacco Trust Fund Commission

Reprogramming of the laboratory-information-management system that makes this report possible is being funded through a grant from the North Carolina Tobacco Trust Fund Commission.

Thank you for using agronomic services to manage nutrients and safeguard environmental quality.
- *Steve Troxler, Commissioner of Agriculture*

Sample ID: 4

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	20	60	0	0	pH$	0	0	0	Note: 3 Note: $
2 - SG/Soybean (DC)	0.0	80-100	30	100	0	0	pH$	0	0	0	Note: 3 Note: $

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.71	1.05	7.1	90	0.7	6.6	55	39	59	29	32	74	52	45	67	67	61	0.2	3		

Sample ID: 5

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	20	50	0	0	pH$	0	0	0	Note: 3 Note: $
2 - SG/Soybean (DC)	0.0	80-100	30	80	0	0	pH$	0	0	0	Note: 3 Note: $

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
1.31	0.98	9.1	92	0.7	6.7	54	43	61	28	32	63	44	37	88	88	59	0.2	2		

Sample ID: 6

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	40	40	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	60	60	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
1.74	1.07	8.9	86	1.2	6.3	41	49	57	26	40	59	49	42	91	91	49	0.4	4		

Sample ID: 7

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	20	40	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	40	70	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
0.81	1.10	6.8	88	0.8	6.3	51	48	61	24	42	61	48	41	101	101	63	0.2	3		

Sample ID: 8

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	30	40	0	0	0	0	0	0	Note: 3
2 - SG/Soybean (DC)	0.0	80-100	40	70	0	0	0	0	0	0	Note: 3

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
1.49	1.02	9.5	90	0.9	6.4	48	48	62	25	40	61	47	40	108	108	53	0.3	3		

Sample ID: 9

Lime History:

Recommendations: Crop	Lime (tons/acre)	N	P_2O_5	K_2O	Mg	S	Mn	Zn	Cu	B	More Information
		Nutrients (lb/acre)									
1 - Corn, grain	0.0	120 - 160	60	50	0	0	pH$	0	0	0	Note: 3 Note: $
2 - SG/Soybean (DC)	0.0	80-100	80	80	0	0	pH$	0	0	0	Note: 3 Note: $

Test Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO_3-N in mg/dm³]: **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO_3-N
1.31	1.03	9.2	92	0.8	6.5	33	44	61	28	41	60	45	38	72	72	37	0.4	4		

Understanding the Soil Report: explanation of measurements, abbreviations and units

Recommendations

Lime

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Test Results

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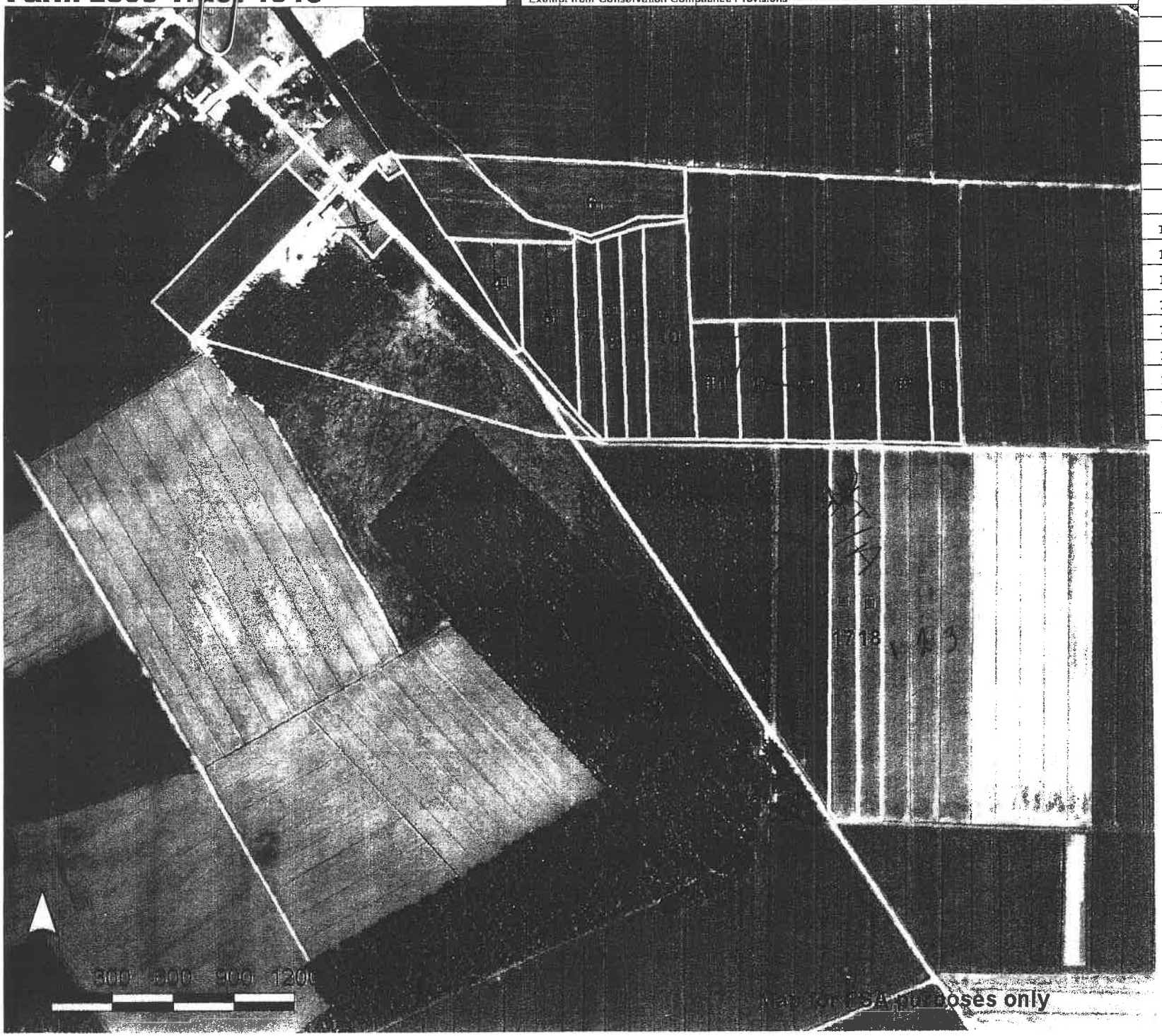
Report Abbreviations

Ac	exchangeable acidity
B	boron
BS%	% CEC occupied by basic cations
Ca%	% CEC occupied by calcium
CEC	cation exchange capacity
Cu-I	copper index
ESP	exchangeable sodium percent
HM%	percent humic matter
K-I	potassium index
K_2O	potash
Mg%	% CEC occupied by magnesium
MIN	mineral soil class
Mn	manganese
Mn-AI1	Mn-availability index for crop 1
Mn-AI2	Mn-availability index for crop 2
Mn-I	manganese index
M-O	mineral-organic soil class
N	nitrogen
Na	sodium
NO_3-N	nitrate nitrogen
ORG	organic soil class
pH	current soil pH
P-I	phosphorus index
P_2O_5	phosphate
S-I	sulfur index
SS-I	soluble salt index
W/V	weight per volume
Zn-AI	zinc availability index
Zn-I	zinc index

Pamlico County FSA
Farm 2860 Tract 1318

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.



Field	Acres	Crop	HEL
1	5.45		N
2	~~9.86~~		N
3	3.50		N
4	2.18		N
5	4.14		N
6	6.40		N
7	2.57		N
8	2.36		N
9	2.63		N
10	5.39		N
11	2.89		N
12	3.07		N
13	3.04		N
14	3.19		N
15	3.54		N
16	1.93		N
17	5.62		N
18	5.06		N

1,3-16
4 T/A

17,18
3 T/A

@ House
4T/ac 11Tac
4160T 23 loads

Total Cropland Acr
63.8

Pamlico County FSA
Farm 2860 Tract 1319

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

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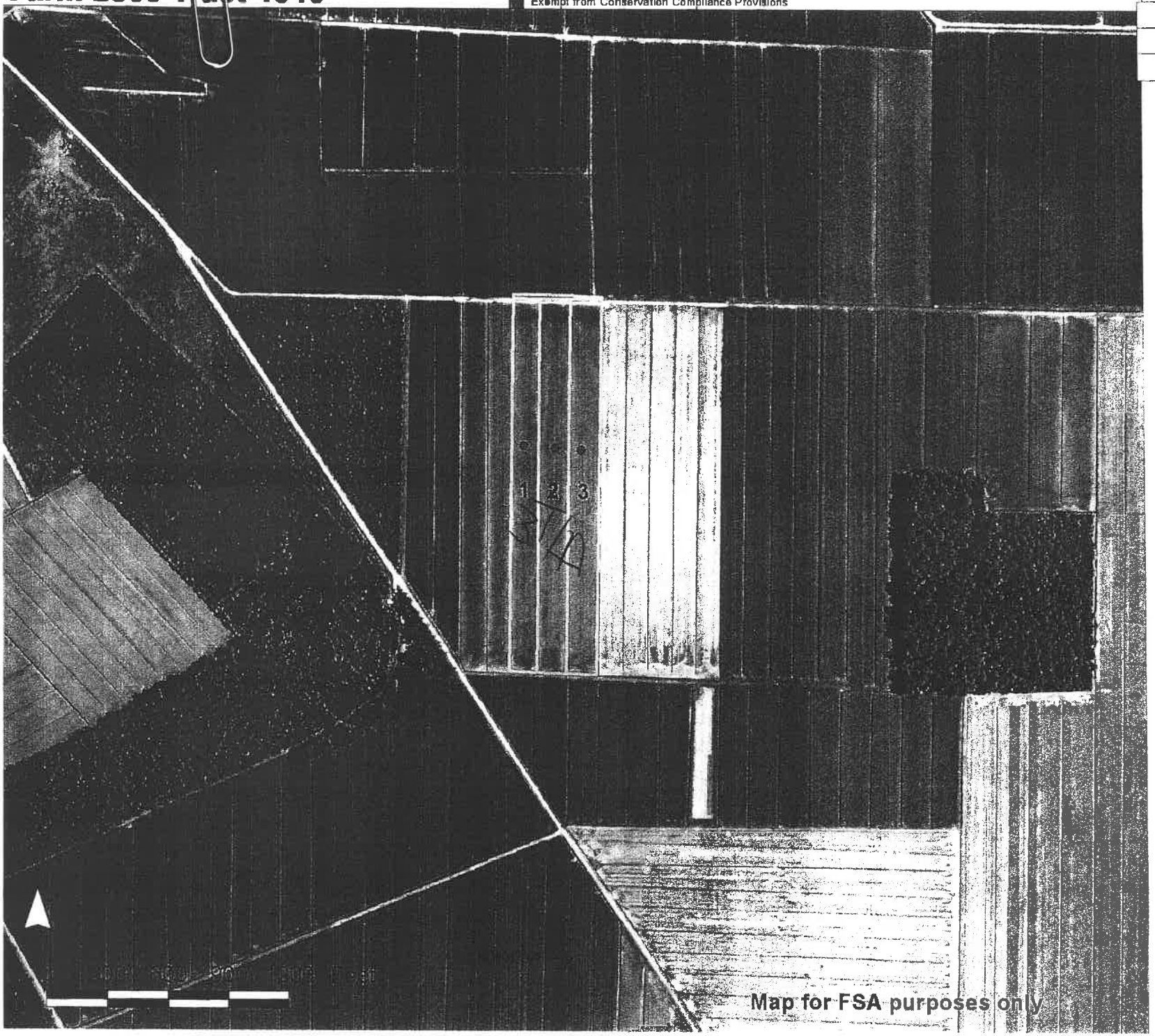
Field	Acres	Crop	HEL	CRP
1	5.64		N	
2	6.34		N	
3	6.39		N	



3 T/A

House Farm
Next to field
18
~~10~~ acres Total
215 @ House
Farm
@ 4 Ton/acre = 460T
= 23 loads

Map for FSA purposes only

Total Cropland Acres
18.4

Pamlico County FSA
Farm 2360 Tract 1320

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

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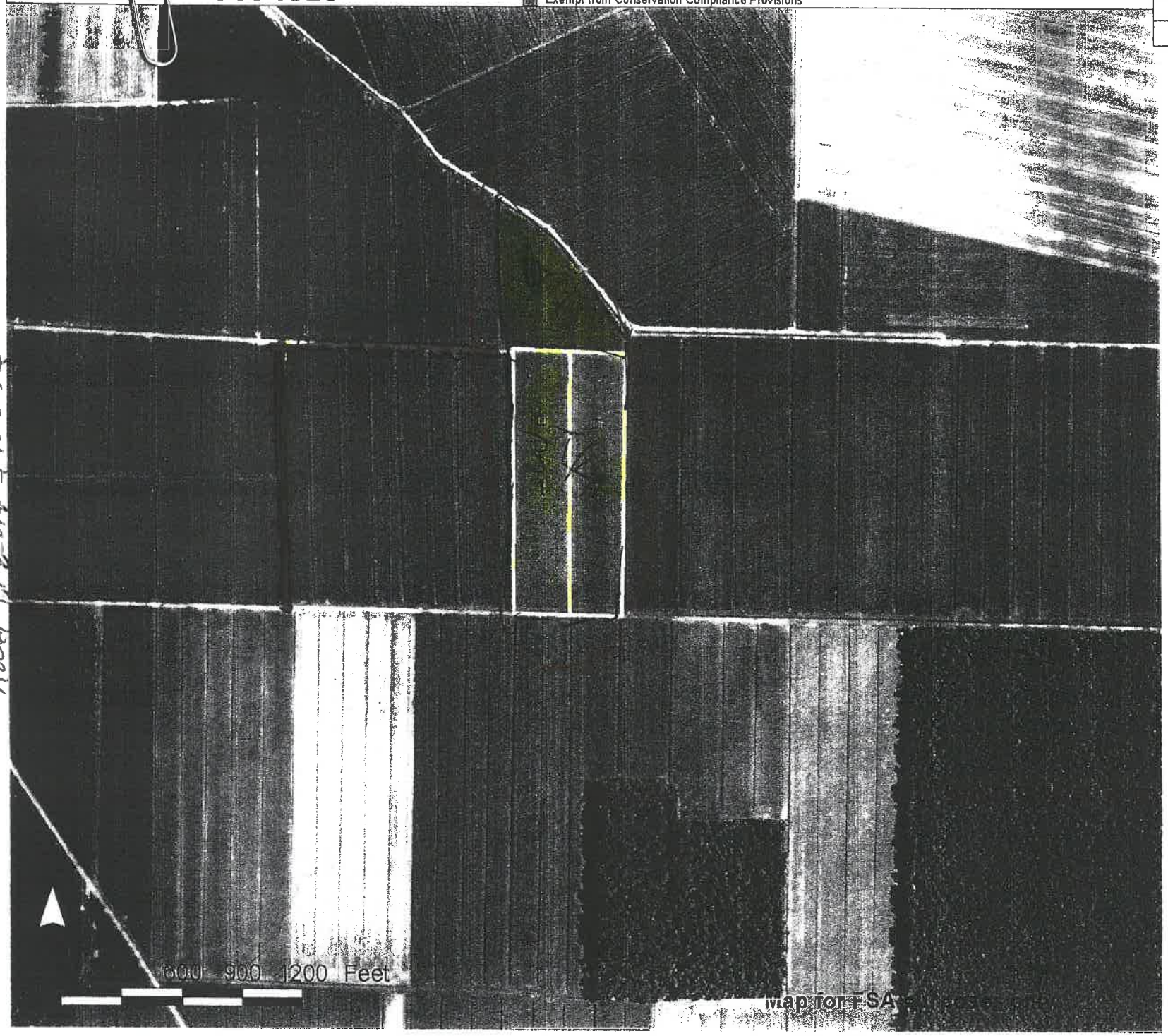
Fld	Acres	Crop	HEL
1	8.23		N
2	7.83		N

3
4
5 } 10ac

3 T/A

16.1
10.0
26.1 acres

Road Front House



House Farm go up field Road @ ditch Turn right 2 fields on right 3 on the left @ end.

Total Cropland Acr
16.1

Pamlico County FSA
Farm 2860 Tract 1689

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

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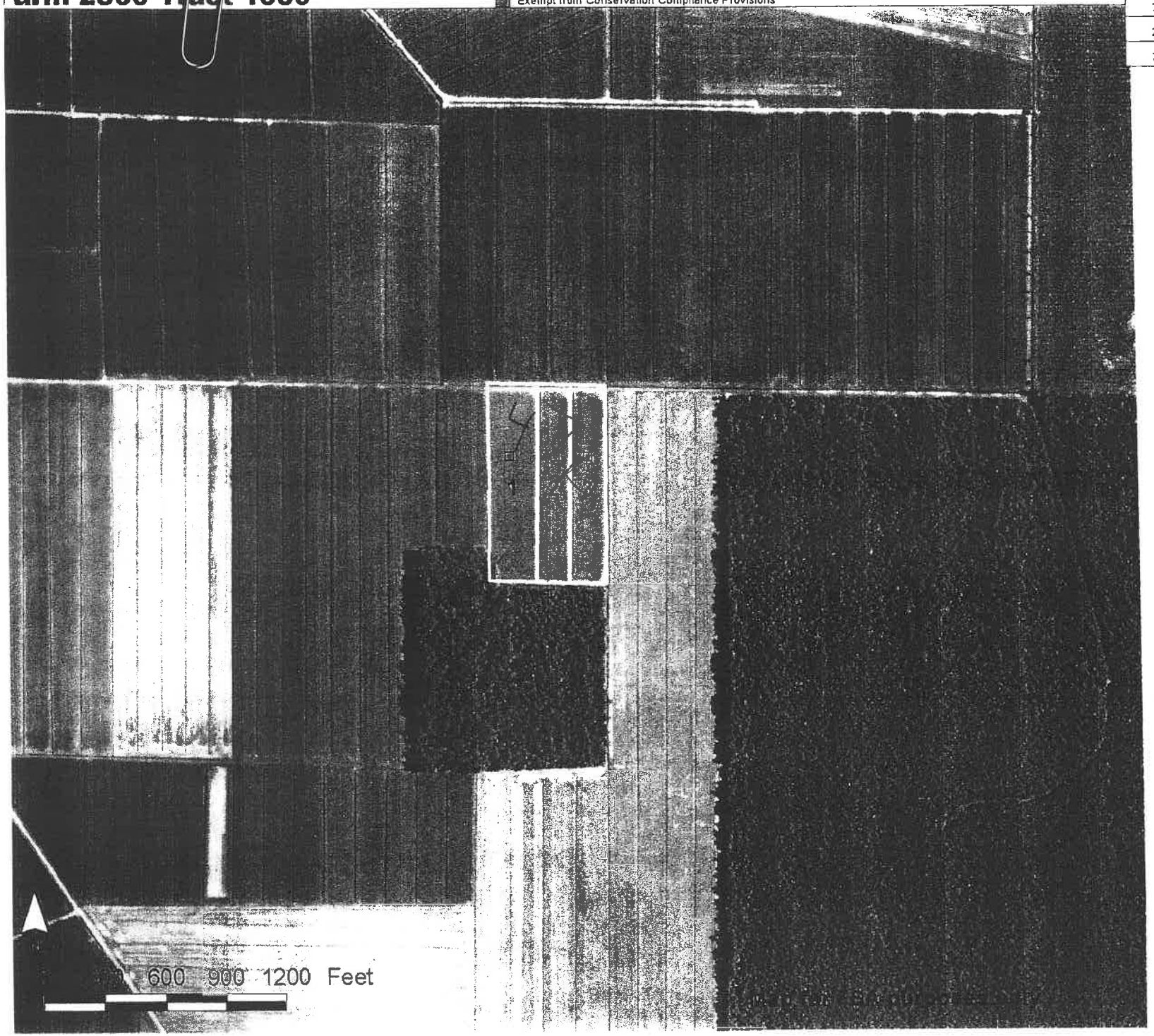
Field	Acres	Crop	HEL	CRP
1	5.39		N	
2	3.61		N	
3	3.95		N	



4 T/A

House & barn @ the end next to what

Total Cropland Acres
12.9

mlico County FSA

rm 2860 Tract 1317

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

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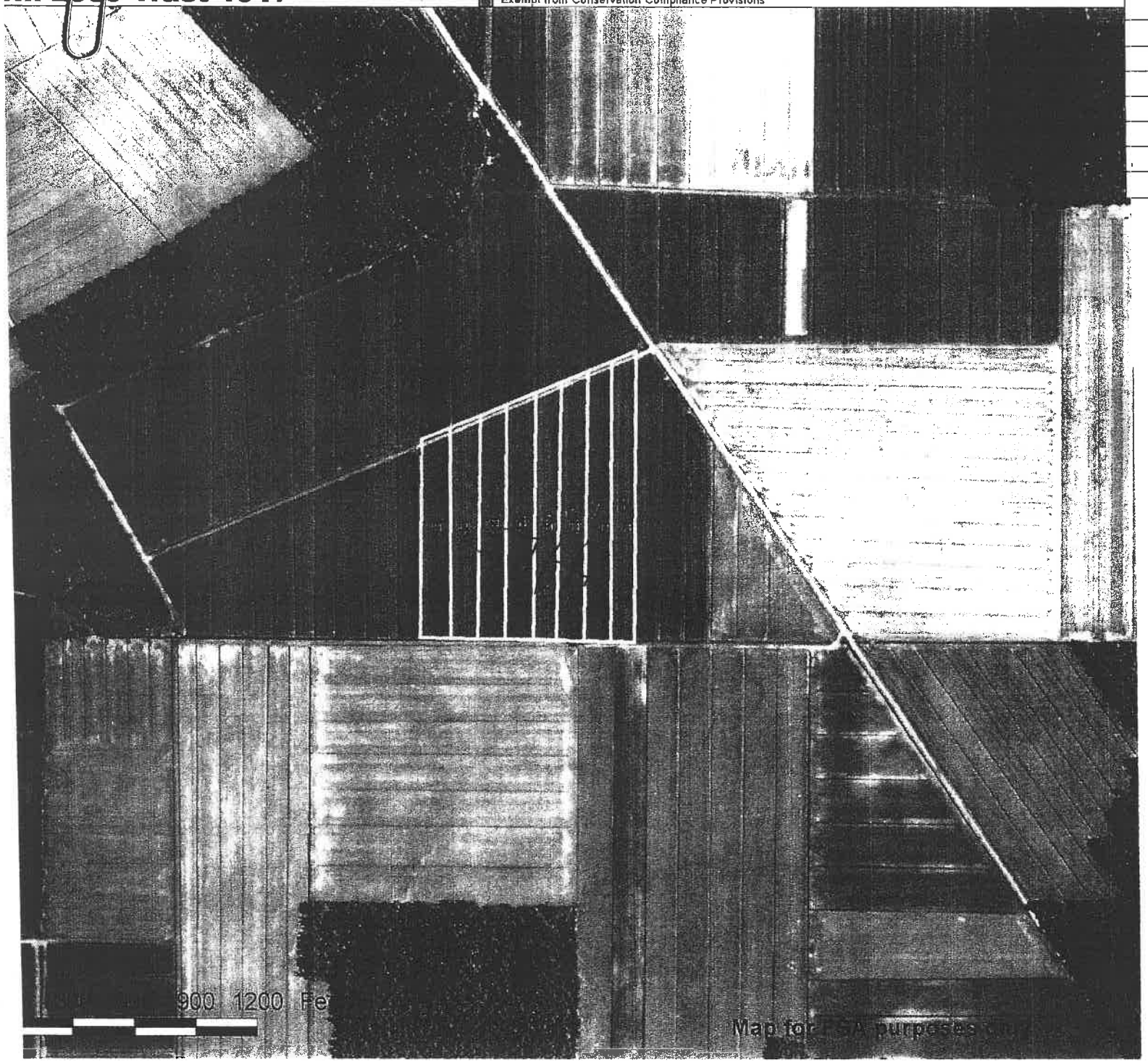
Fld	Acres	Crop	HEL	CRP
1	3.18		N	
2	3.28		N	
3	3.27		N	
4	3.63		N	
5	3.20		N	
6	3.76		N	
7	3.62		N	
8	3.63		N	

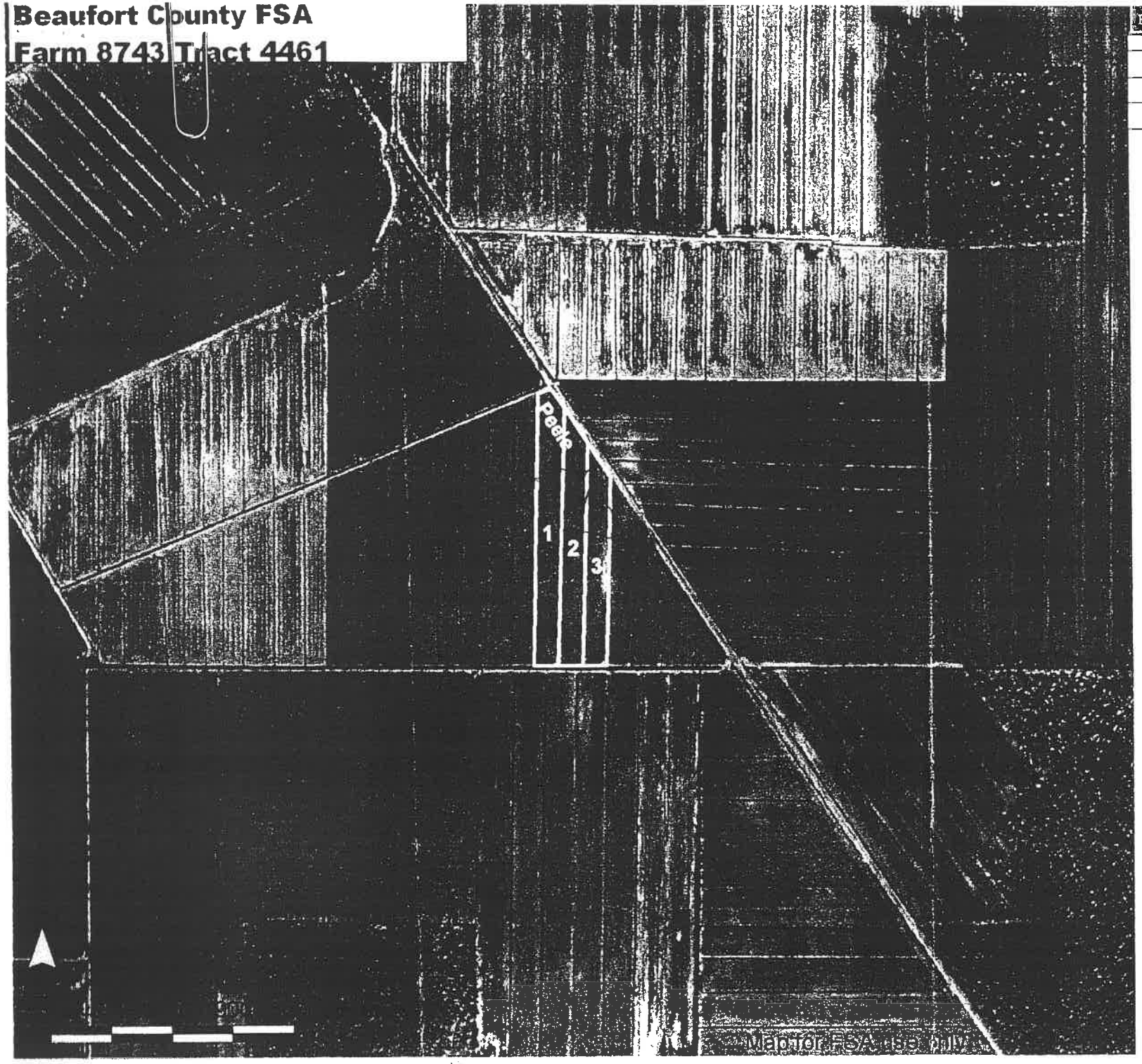


1 ST Rd on right
East day pens

3 T/A
Railroad
5 - 6 acres
x 4 = 22 tons
11 loads

Total Cropland Acres
27.6

Beaufort County FSA
Farm 8743 Tract 4461



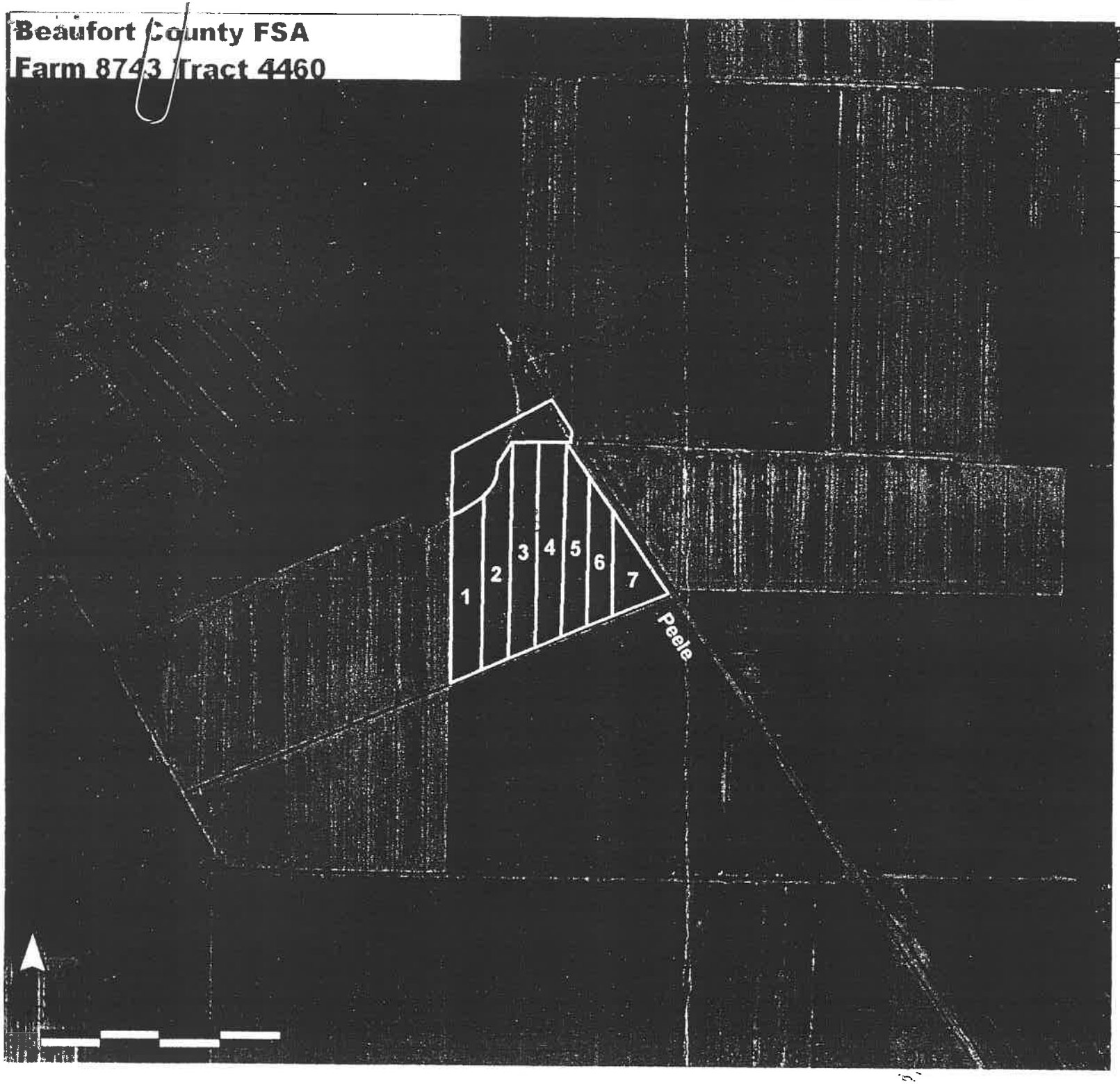
Fld	Acres	Crop	HEL	CRP
1	3.90		N	
2	3.30		N	
3	2.79		N	

3 T/A

1ST Rd Right

Total Cropland Acres
10.0

Beaufort County FSA
Farm 8743 Tract 4460



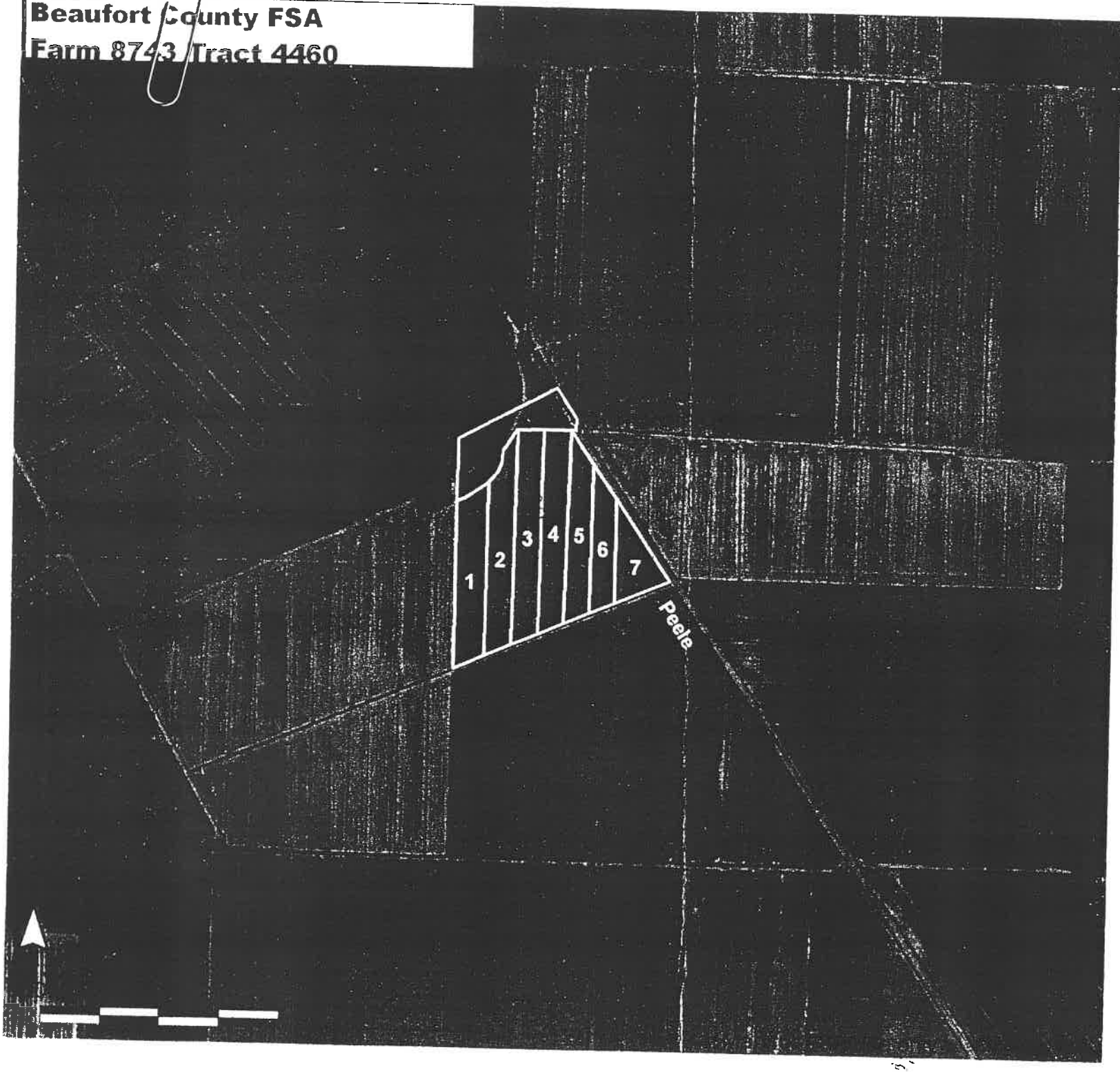
Fld	Acres	Crop	HEL	CRP
1	3.12		N	
2	3.16		N	
3	3.21		N	
4	3.14		N	
5	2.44		N	
6	1.79		N	
7	1.70		N	

3 T/A

1ST field on Right
Past Dog pen

Total Cropland Acres
18.6

Beaufort County FSA
Farm 8743 Tract 4460



Fld	Acres	Crop	HEL	CRP
1	3.12		N	
2	3.16		N	
3	3.21		N	
4	3.14		N	
5	2.44		N	
6	1.79		N	
7	1.70		N	

3 T/A

1st field on Right
Past Dog pen

Total Cropland Acres
18.6

mlico County FSA

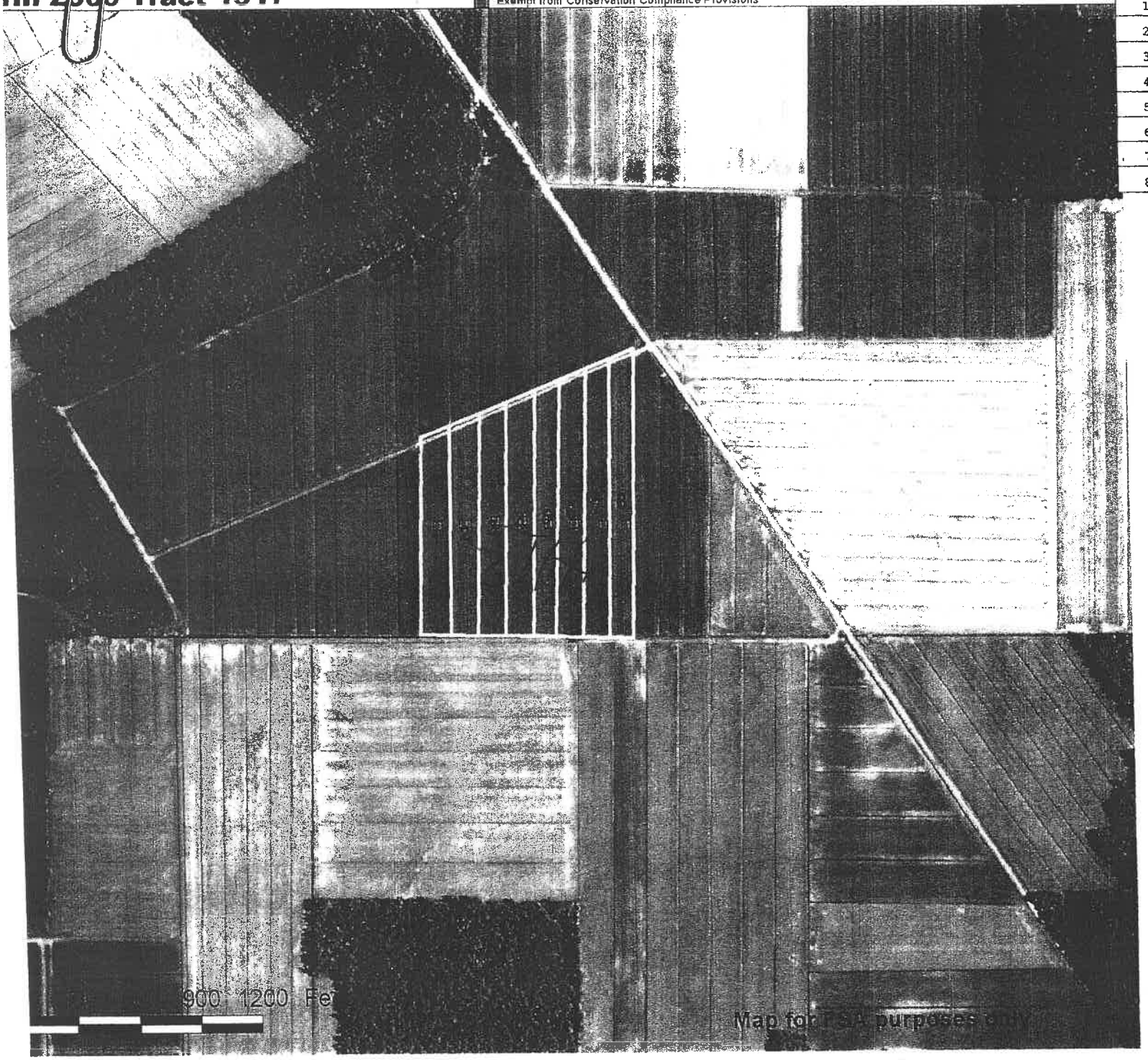
rm 2360 Tract 1317

Wetland Determination Identifiers

- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

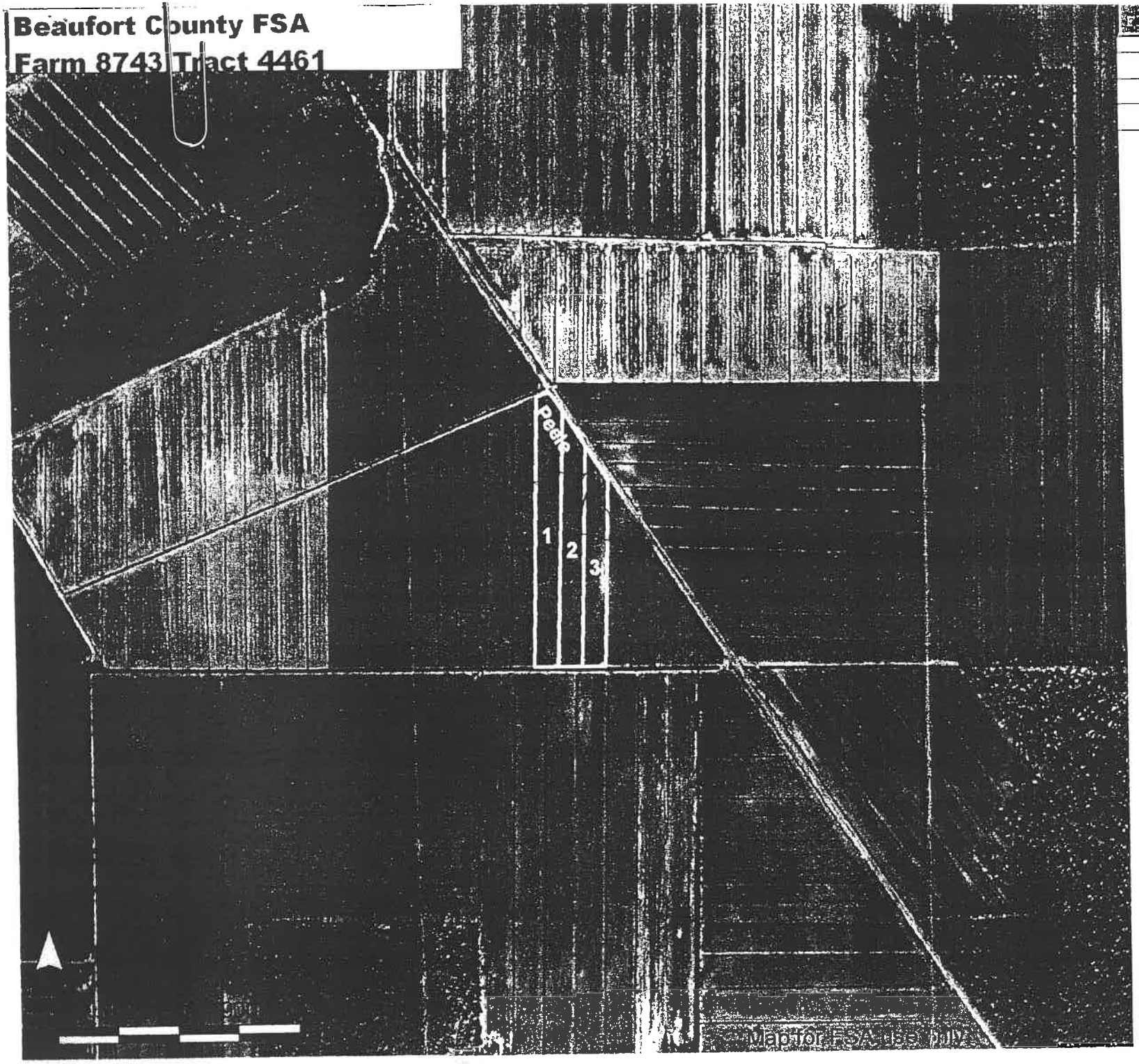
Fld	Acres	Crop	HEL	CRP
1	3.18		N	
2	3.28		N	
3	3.27		N	
4	3.63		N	
5	3.20		N	
6	3.76		N	
7	3.62		N	
8	3.63		N	



3 T/A
Railroad
5 acres

Total Cropland Acres
27.6

Beaufort County FSA
Farm 8743 Tract 4461



Fld	Acres	Crop	HEL	CRP
1	3.90		N	
2	3.30		N	
3	2.79		N	

3 T/A
1ST Rd Right

Total Cropland Acres
10.0

Owen Peele

(1) Hwy 70 to Bridgeston

(2) Hwy 55 to Grantsboro

(3) Turn left @ stop light in Grantsboro onto 306

(4) Follow to end of 306 @ stop sign - Turn right on Hwy 33 Toward Aurora

(5) Go Through Aurora

(6) Turn right after you cross the 1st creek

(7) Take the second right on Peele Rd on <u>1002</u>.

(8) Go all the way back to the 1st fields & look for equipment

Owen Peele

(1) Hwy 70 to Bridgeston

(2) Hwy 55 to Grantsboro

(3) Turn left @ stop light in Grantsboro onto 306

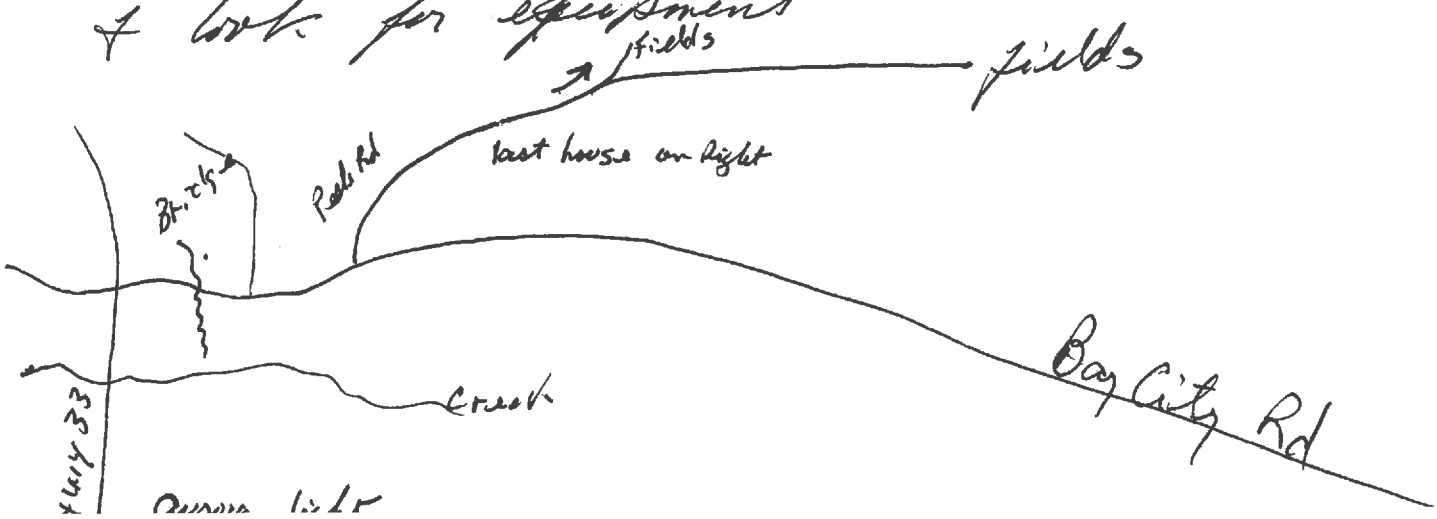
(4) Follow to end of 306 @ stop sign - Turn right on Hwy 33 Toward Aurora

(5) Go Through Aurora

(6) Turn right after you cross the 1st creek

(7) Take the second right on Peele Rd on <u>1002</u>.

(8) Go all the way back to the 1st fields & look for equipment

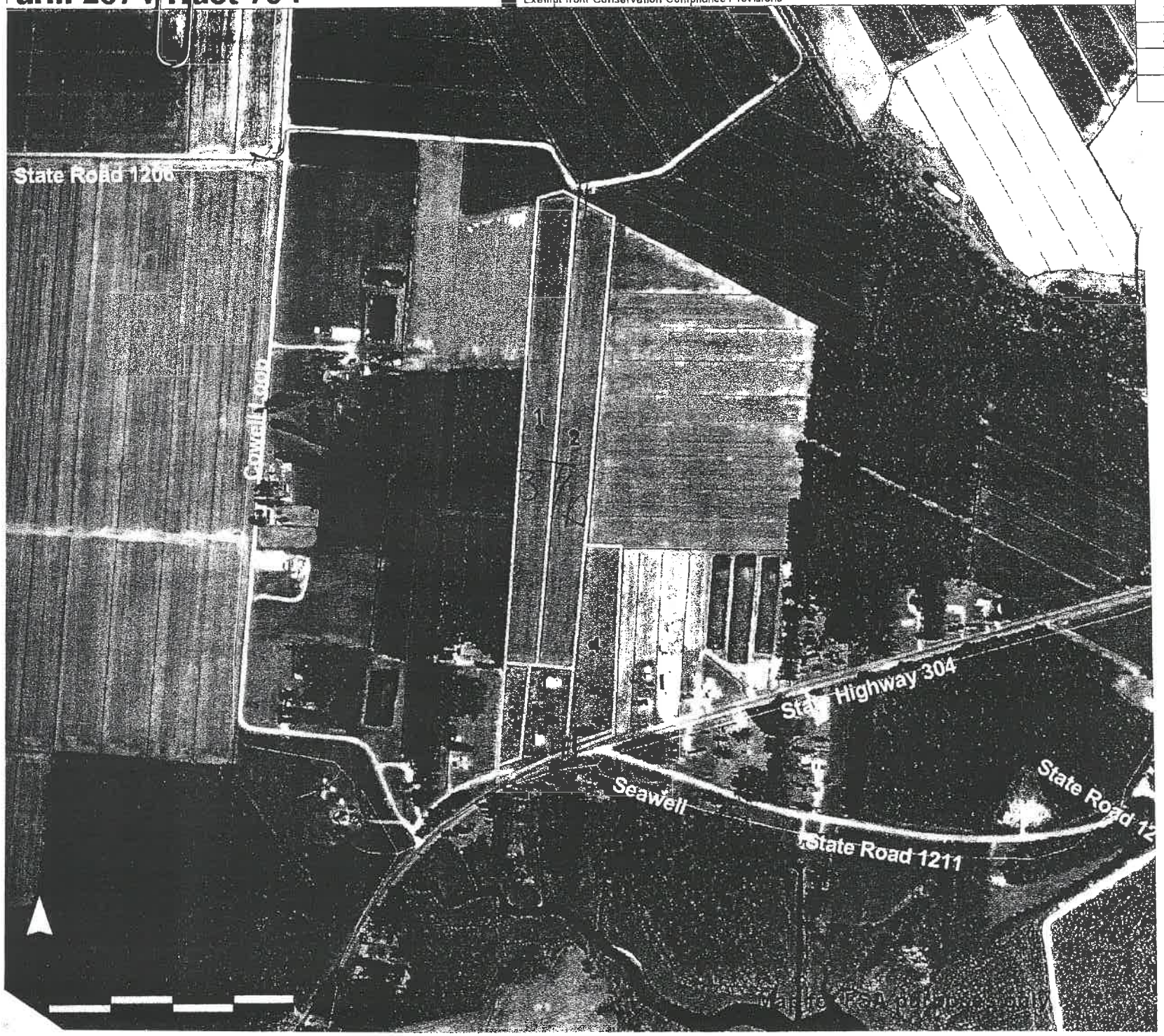


Pamlico County FSA
Farm 2374 Tract 734

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland Identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

F	Acres	Crop	HEL	CRP
1	9.10		N	
2	9.65		N	
3	1.27		N	
4	4.26		N	



3 T/A

Pecan Trees
~~20~~ acres
5.4 acre @ 45
216 Tons
18 loads

Total Cropland Acres
24.3

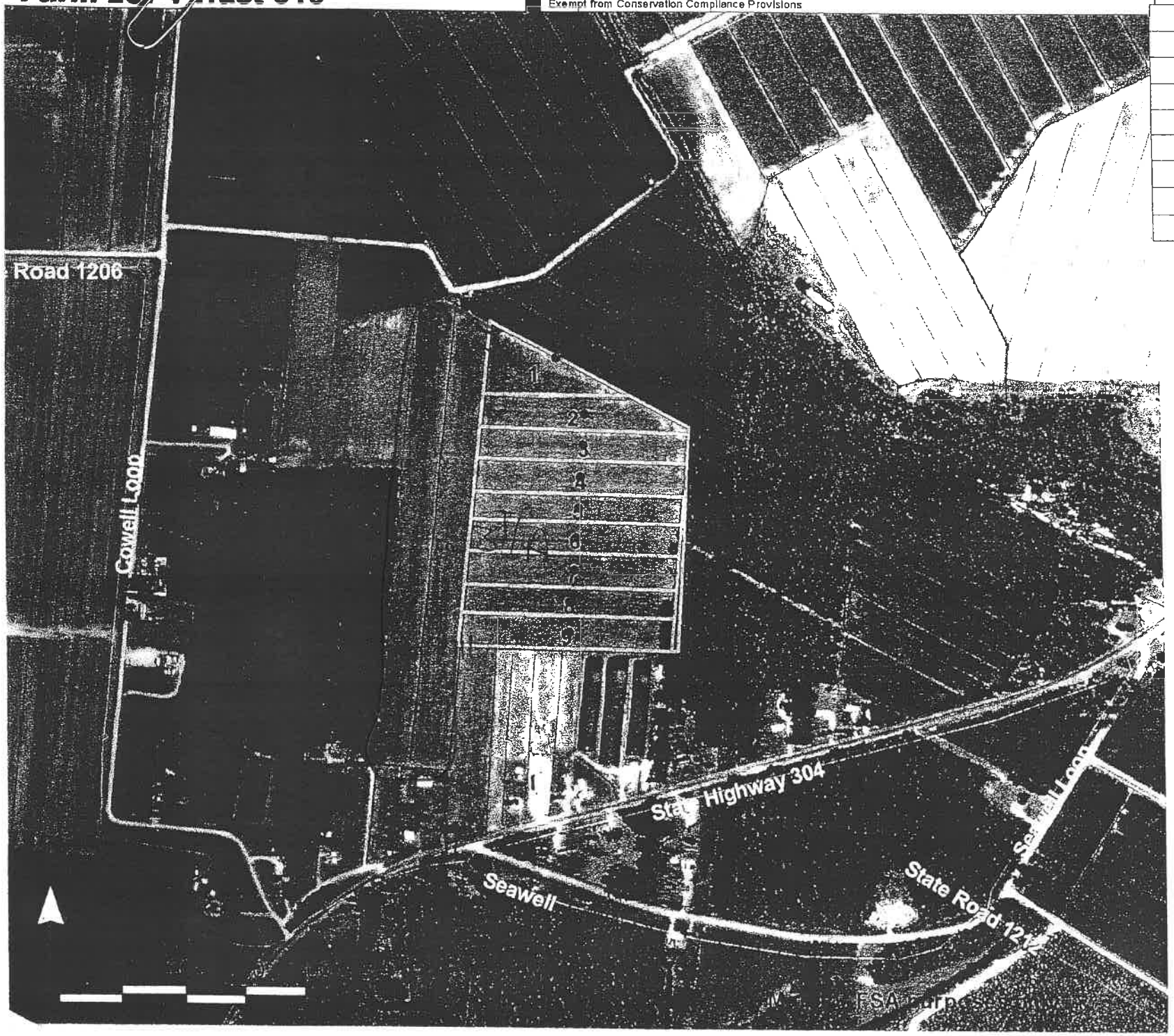
Pamlico County FSA
Farm 2374 Tract 616

Wetland Determination Identifiers

- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland Identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

F	Acres	Crop	HEL	CRP
1	2.92		N	
2	3.62		N	
3	3.74		N	
4	3.97		N	
5	3.32		N	
6	3.84		N	
7	4.02		N	
8	3.29		N	
9	3.86		N	



3 T/A

Pecan Trees

Total Cropland Acres
32.6

Pamlico County FSA
Farm 2816 Tract 1715

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

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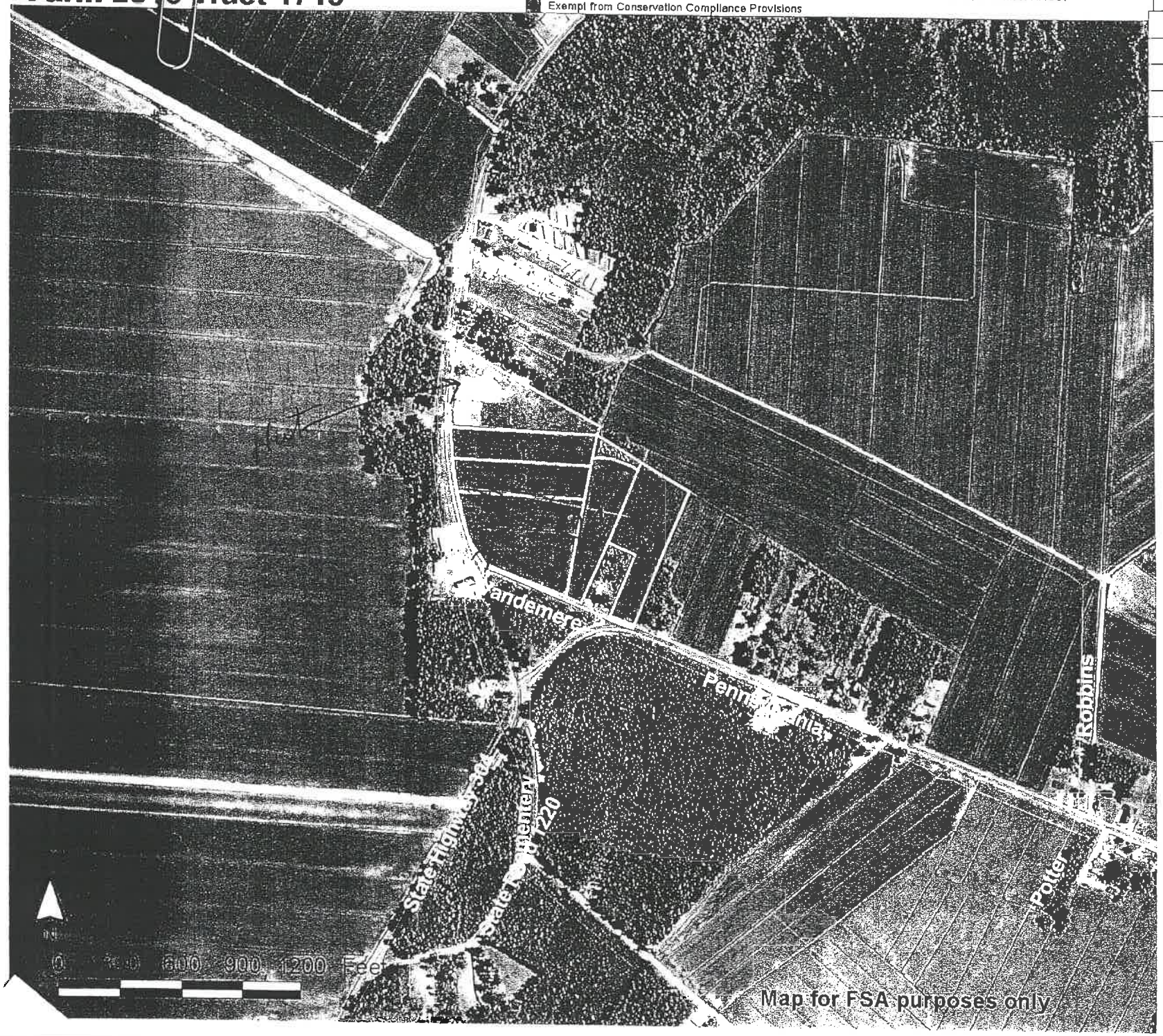
F	Acres	Crop	HEL	CRP
1	2.56		N	
2	2.52		N	
3	5.10		N	
4	2.68		N	
5	3.62		N	



Lordy's

@ Hart

7 loads

Total Cropland Acres
16.5

Pamlico County FSA
Farm 2860 Tract 1095

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

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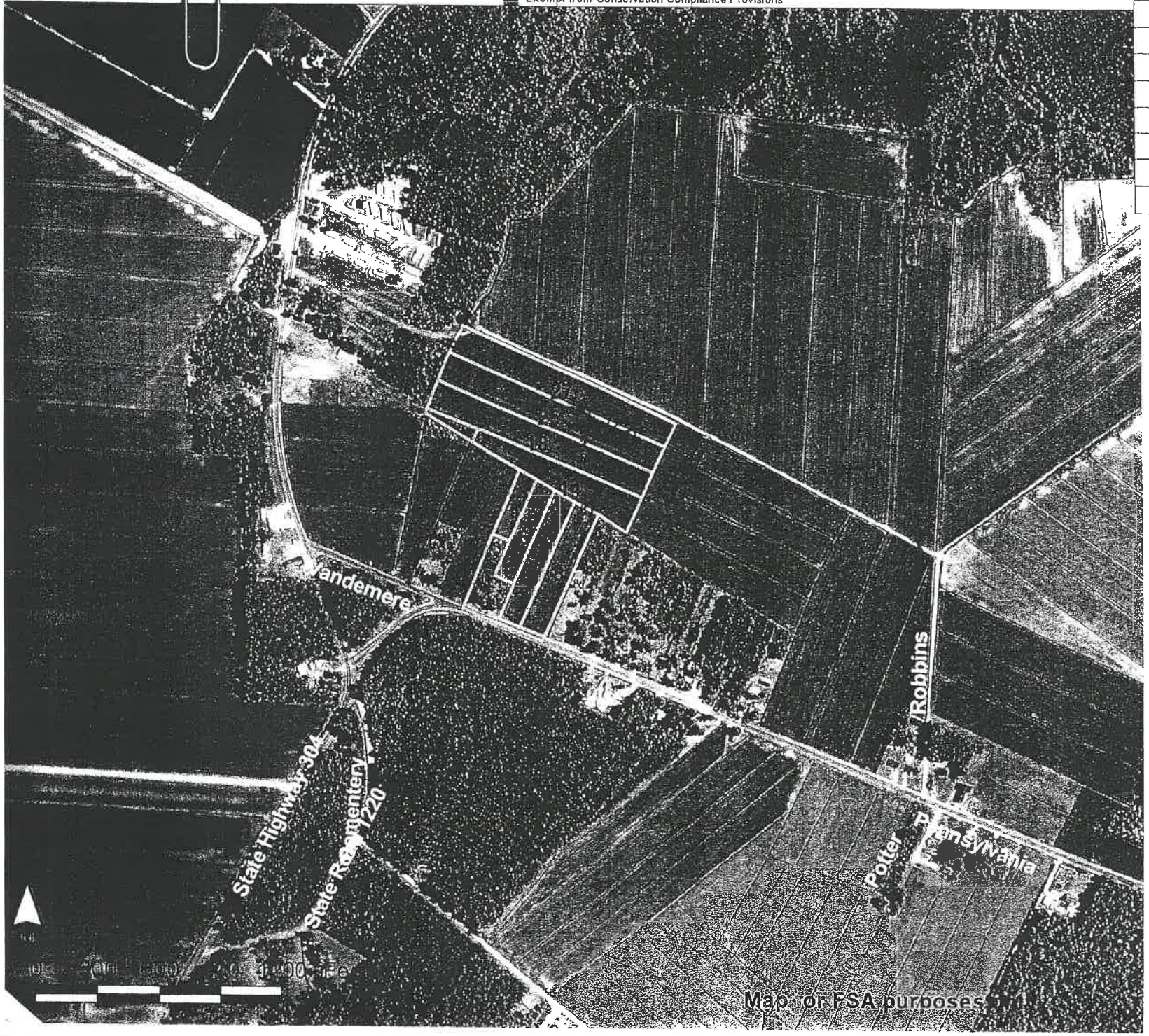

	Acres	Crop	HEL	CRP
5	0.72		N	
6	1.17		N	
7	1.72		N	
8	1.96		N	
14	2.59		N	
18	3.64		N	
25	3.88		N	
27	3.63		N	

3 T/A

Judy's

Behind Hut

Total Cropland Acres
19.3

Pamlico County FSA
Farm 2816 Tract 761

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

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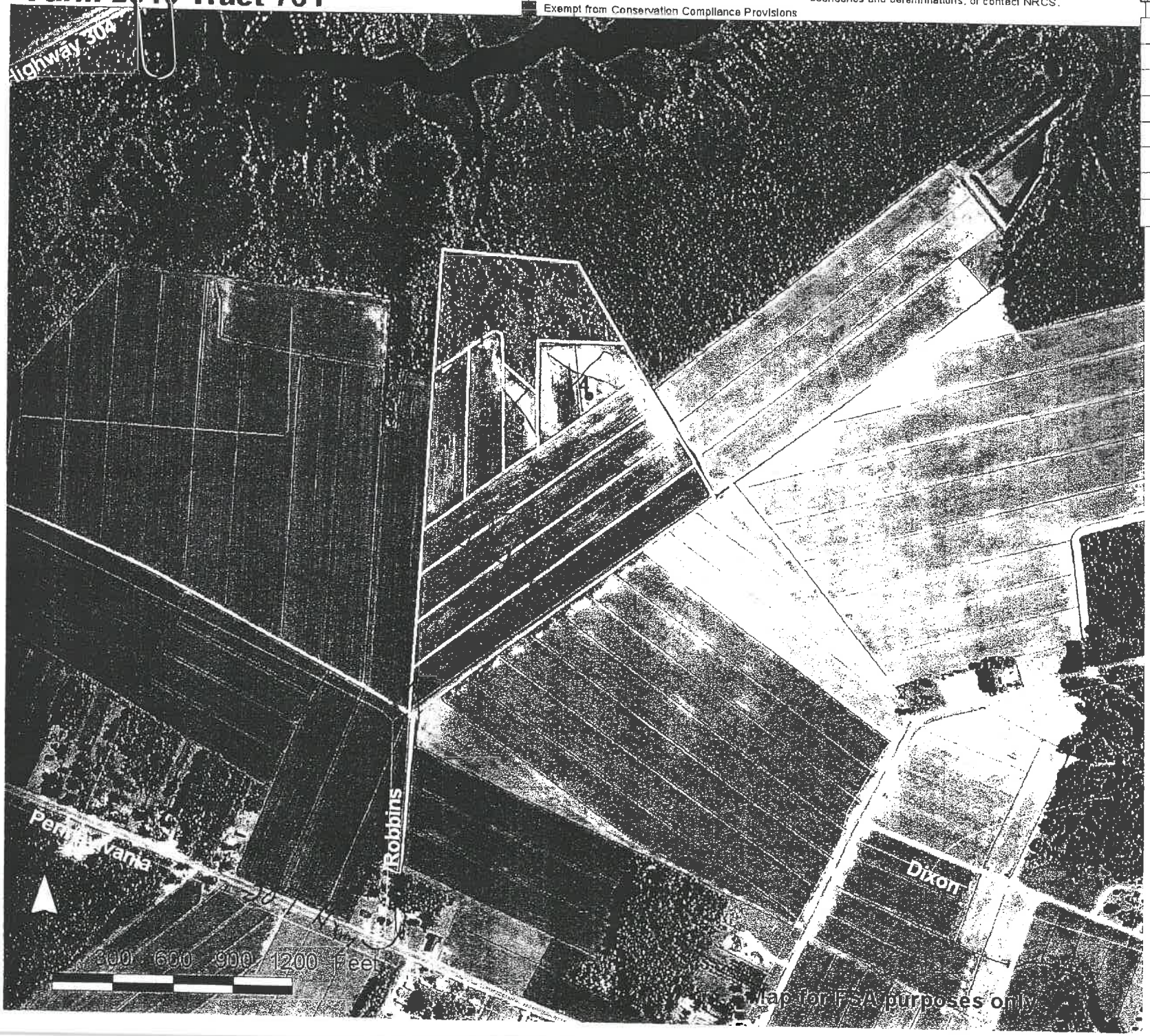

Tr	Acres	Crop	HEL	CRP
1	3.46		N	
2	3.09		N	
3	1.61		N	
4	4.04		N	
5	5.70		N	
6	6.20		N	
7	6.67		N	
8	7.84		N	

4 T/A

judges

7 beds

Total Cropland Acres
38.6

Pamlico County FSA
Farm 2816 Tract 760

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

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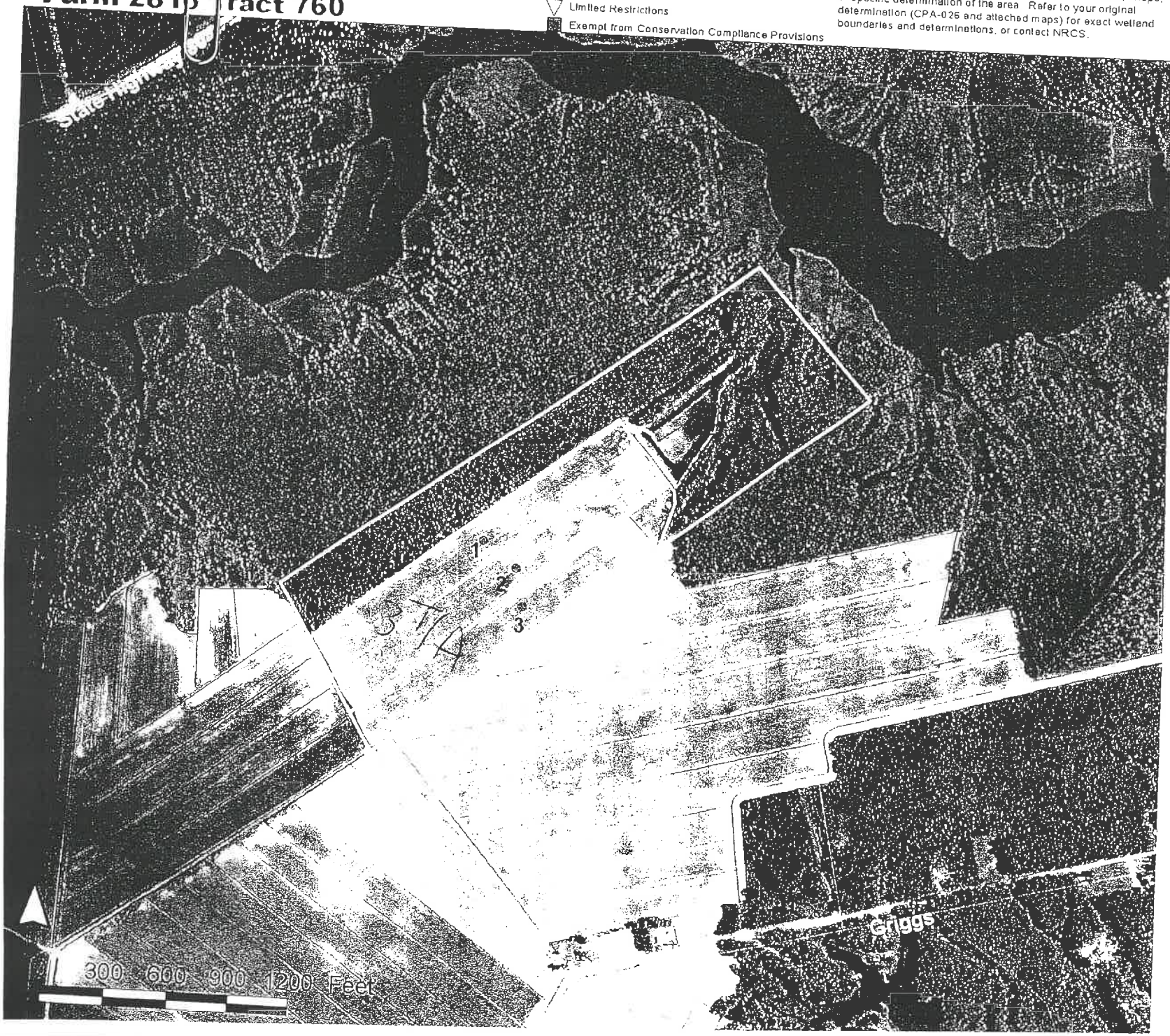

	Acres	Crop	HEL	CP
1	9.00		N	
2	8.84		N	
3	9.53		N	

3 T/A

Hatteras
Griggs Rd
@ back on left

13 loads

Pamlico County FSA
Farm 2816 Tract 1975

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

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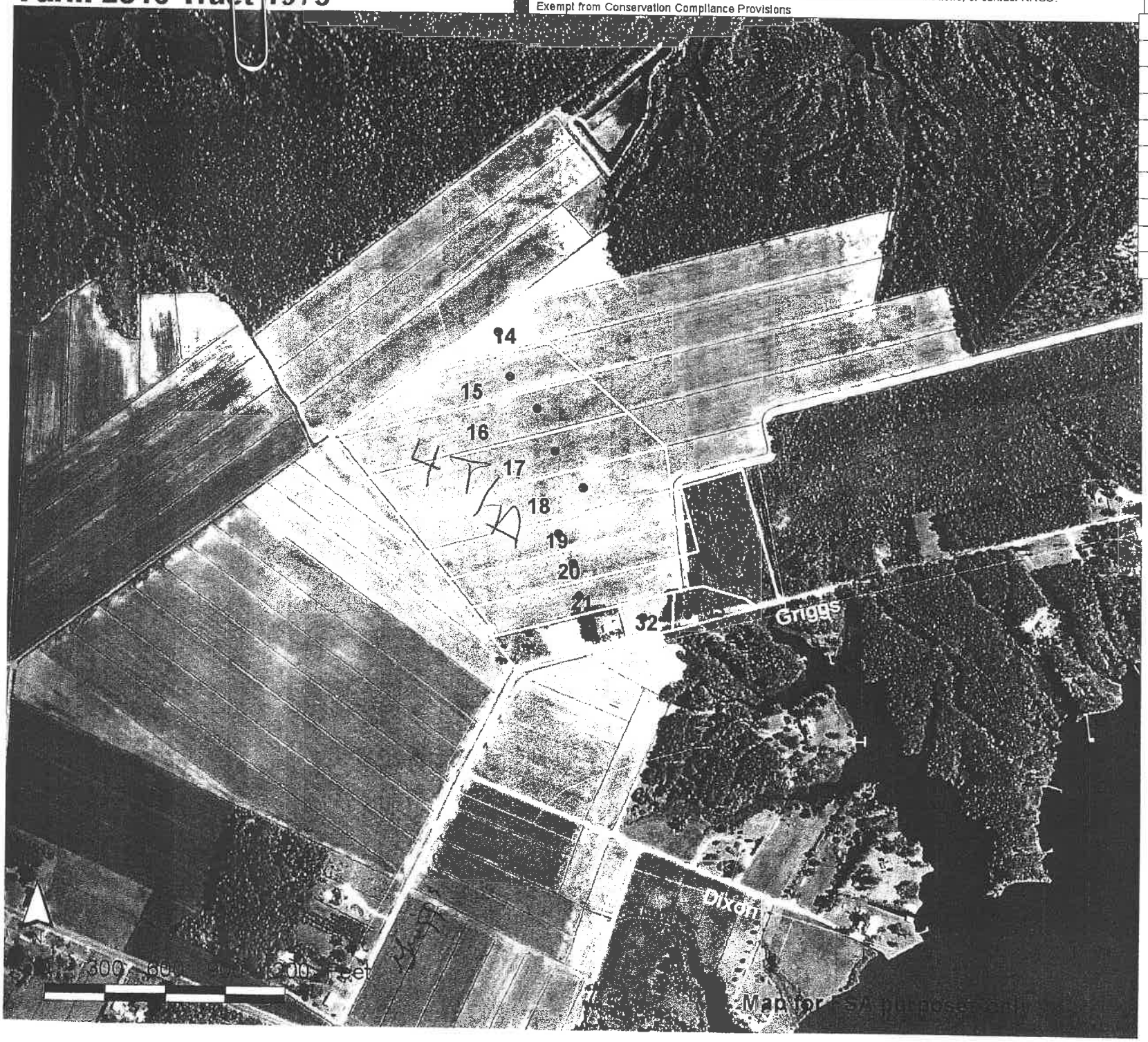


Fld	Acres	Crop	HEL	CRP
14	1.63		N	
15	4.91		N	
16	6.66		N	
17	6.48		N	
18	6.59		N	
19	4.51		N	
20	4.18		N	
21	3.81		N	
32	1.06		N	
33	1.25		N	

4 T/A

Noltas

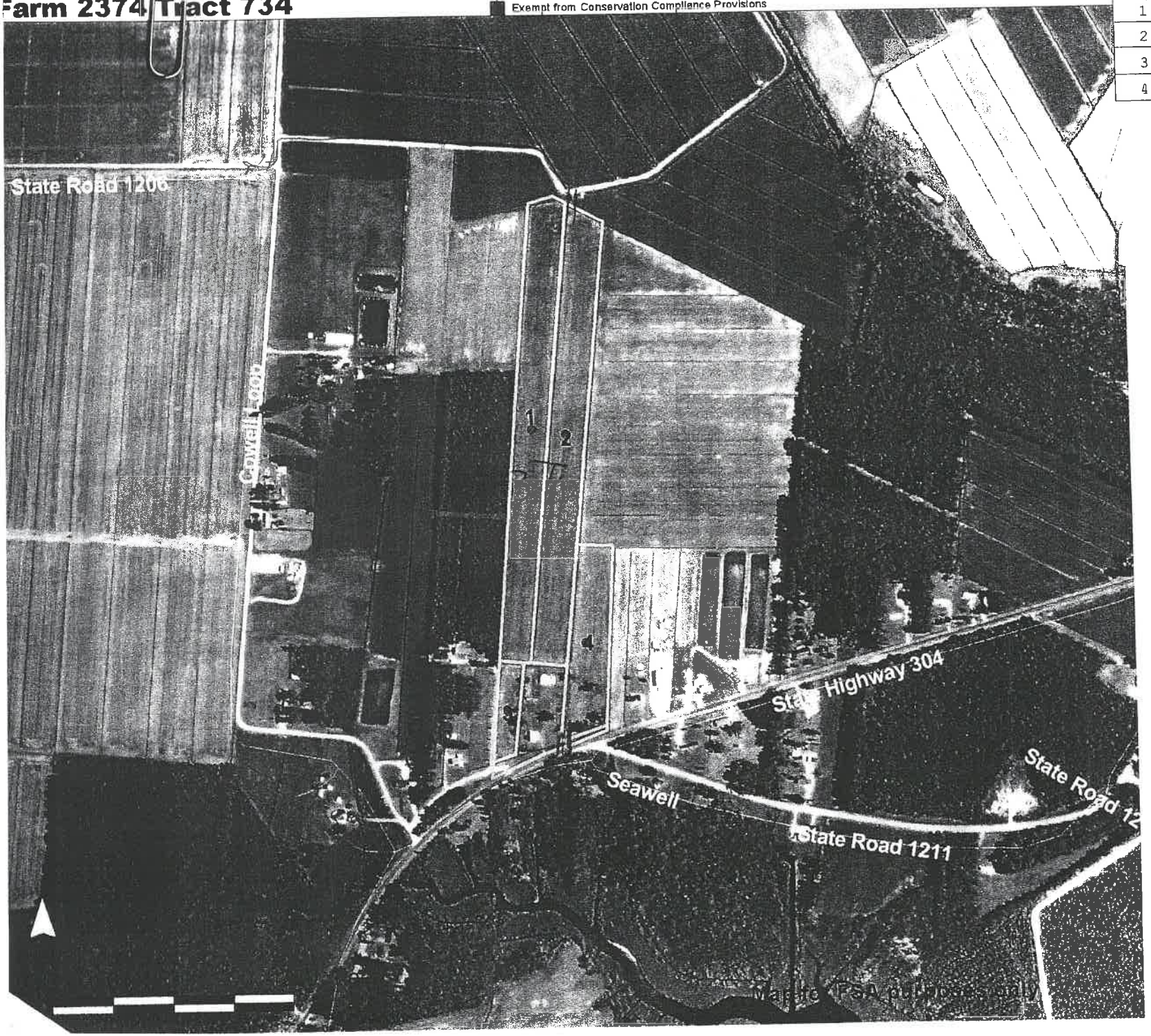
Total Cropland Acres
41.1

Pamlico County FSA
Farm 2374 Tract 734

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

Field	Acres	Crop	HEL	CRP
1	9.10		N	
2	9.65		N	
3	1.27		N	
4	4.26		N	



3 T/A

Pecan Trees
~~3~~ acres
0.4 acre

10 loads

Total Cropland Acres
24.3

Pamlico County FSA
Farm 2374 Tract 616

Wetland Determination Identifiers

- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

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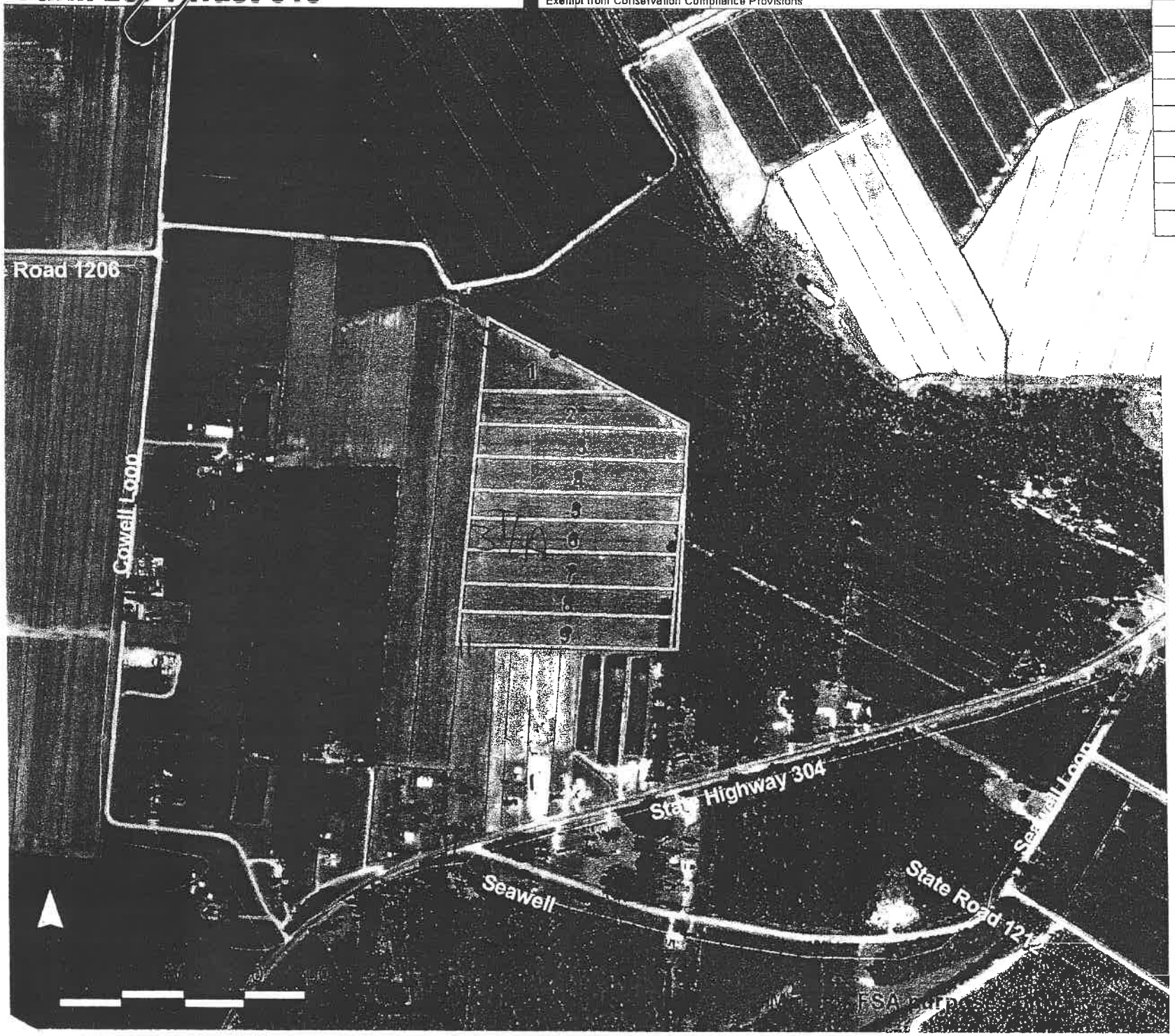
F	Acres	Crop	HEL	CRP
1	2.92		N	
2	3.62		N	
3	3.74		N	
4	3.97		N	
5	3.32		N	
6	3.84		N	
7	4.02		N	
8	3.29		N	
9	3.86		N	



3 T/A

Pecan Trees

Total Cropland Acres
32.6

Pamlico County FSA
Farm 2816 Tract 1715

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

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T	Acres	Crop	HEL	CRP
1	2.56		N	
2	2.52		N	
3	5.10		N	
4	2.68		N	
5	3.62		N	

Lordy's
@ hut

7

Total Cropland Acres
16.5

Pamlico County FSA
Farm 2860 Tract 1095

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

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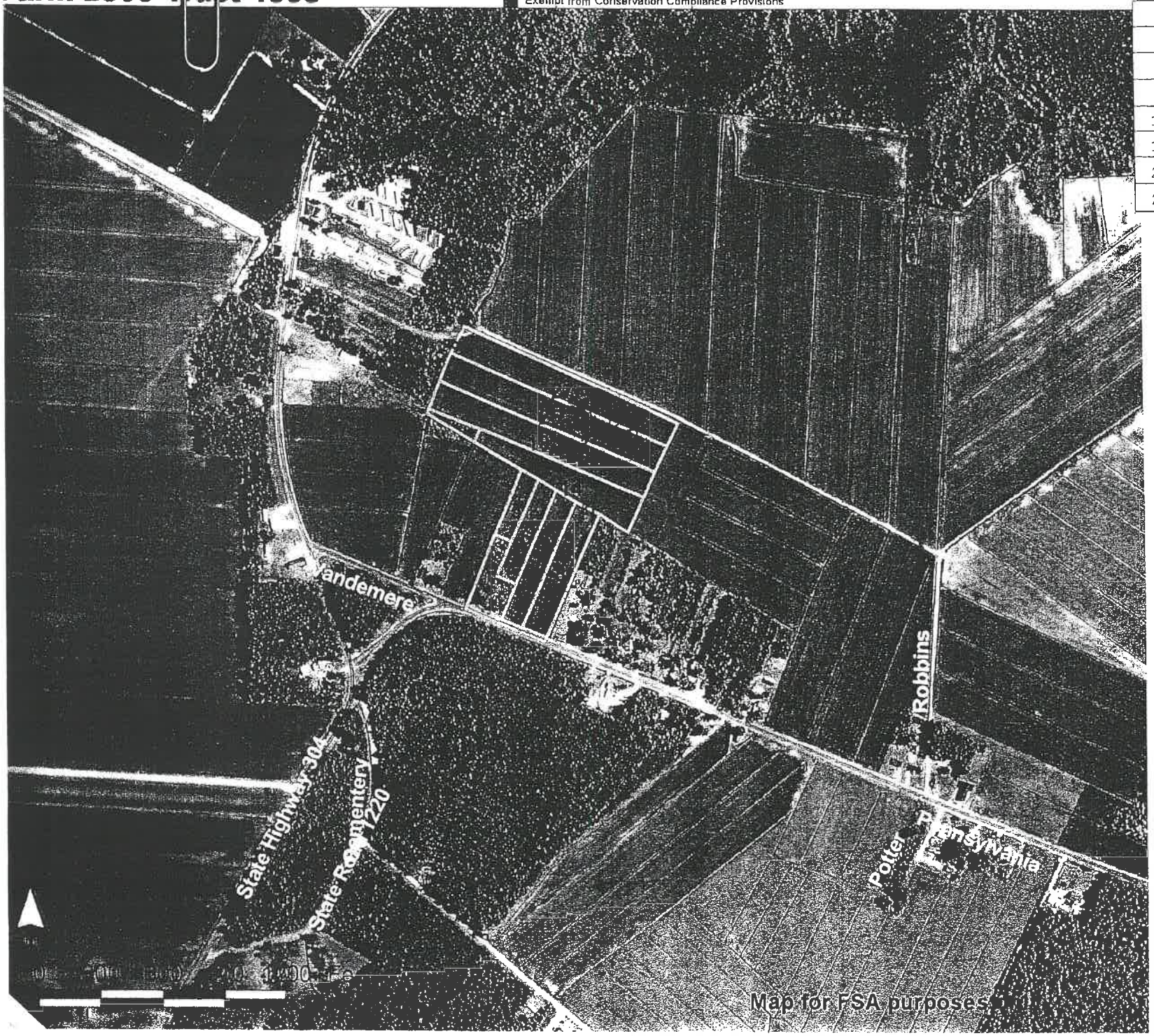
Field	Acres	Crop	HEL	CRP
5	0.72		N	
6	1.17		N	
7	1.72		N	
8	1.96		N	
14	2.59		N	
18	3.64		N	
25	3.88		N	
27	3.63		N	



3 T/A

Judy's

Behind Hut

Total Cropland Acres
19.3

Pamlico County FSA
Farm 2816 Tract 761

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

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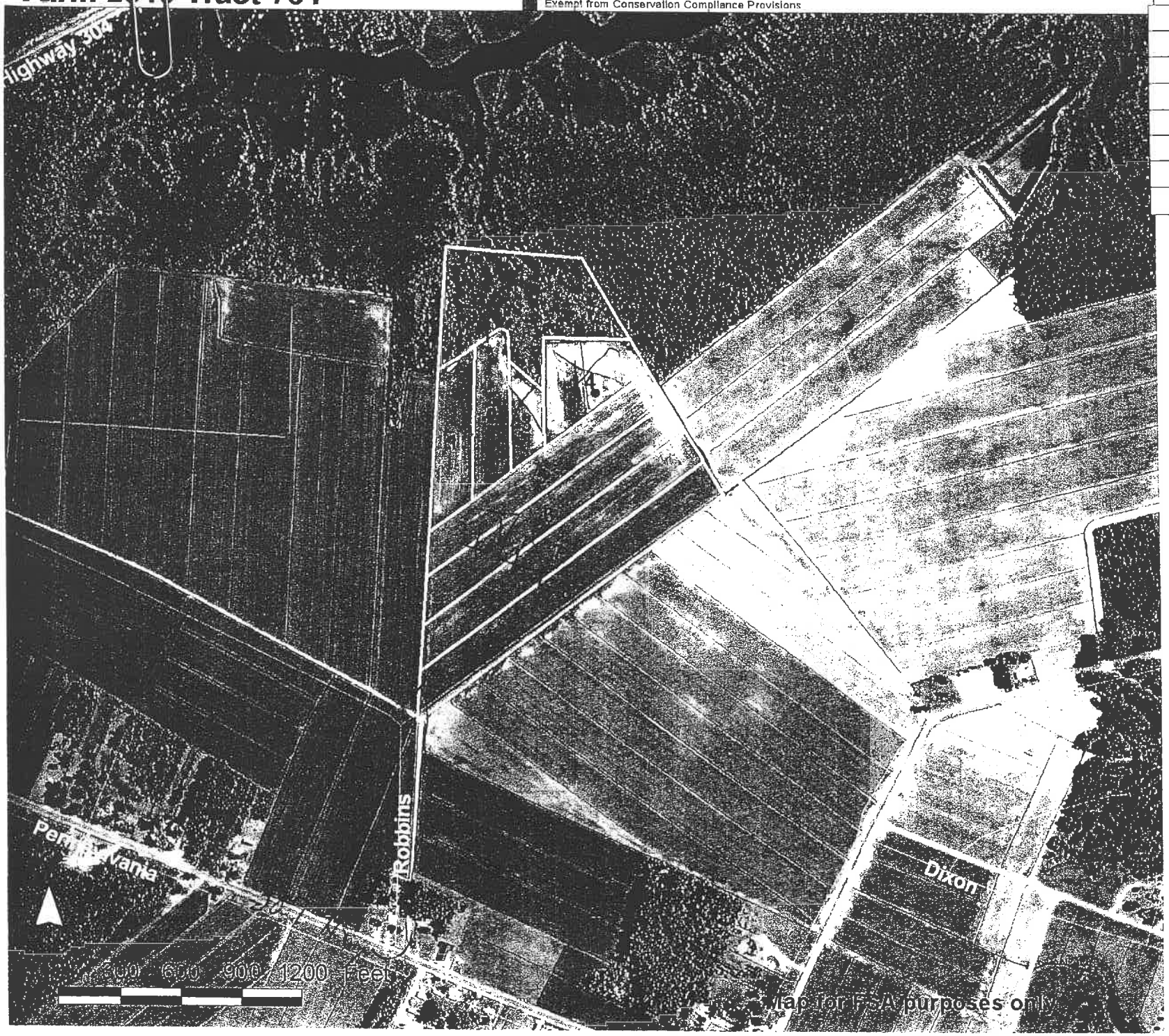

Tr	Acres	Crop	HEL	CRP
1	3.46		N	
2	3.09		N	
3	1.61		N	
4	4.04		N	
5	5.70		N	
6	6.20		N	
7	6.67		N	
8	7.84		N	

4 T/A

judy's

n

Total Cropland Acres
38.6

Pamlico County FSA
Farm 2816 Tract 760

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

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Field	Acres	Crop	HEL	CP
1	9.00		N	
2	8.84		N	
3	9.53		N	

3 T/A

Hatteras Griggs Rd @ back on left

13

Pamlico County FSA
Farm 2816 Tract 1975

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

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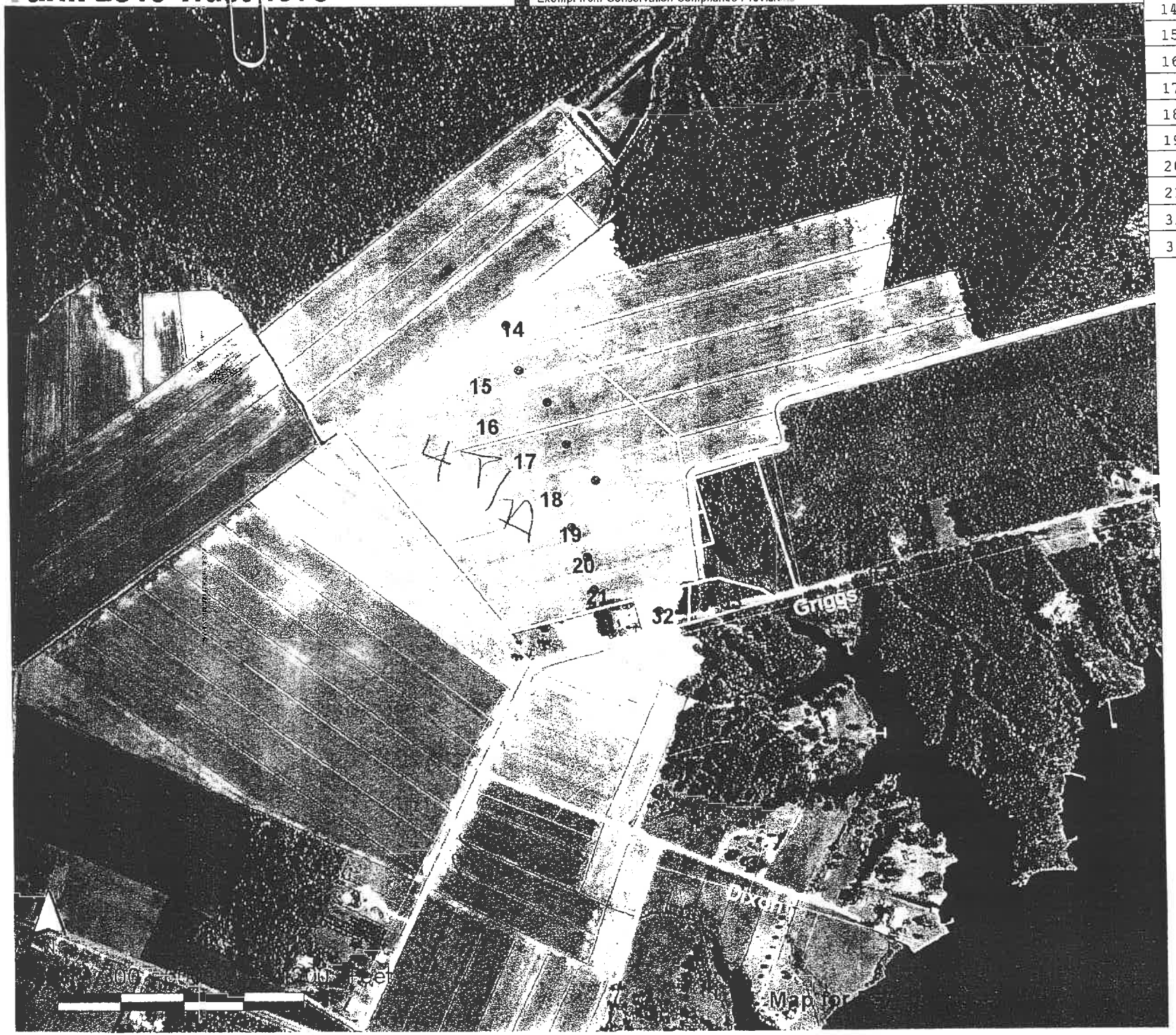


Field	Acres	Crop	HEL	CRP
14	1.63		N	
15	4.91		N	
16	6.66		N	
17	6.48		N	
18	6.59		N	
19	4.51		N	
20	4.18		N	
21	3.81		N	
32	1.06		N	
33	1.25		N	

4 T/A

Noltax

Total Cropland Acres
41.1

Craven
AG SERVICES, INC.
2115 Hwy 55 West New Bern, NC 28562

BILLY DUNHAM, PRESIDENT
(252) 633-5334
(252) 670-8530

Derrick Potter

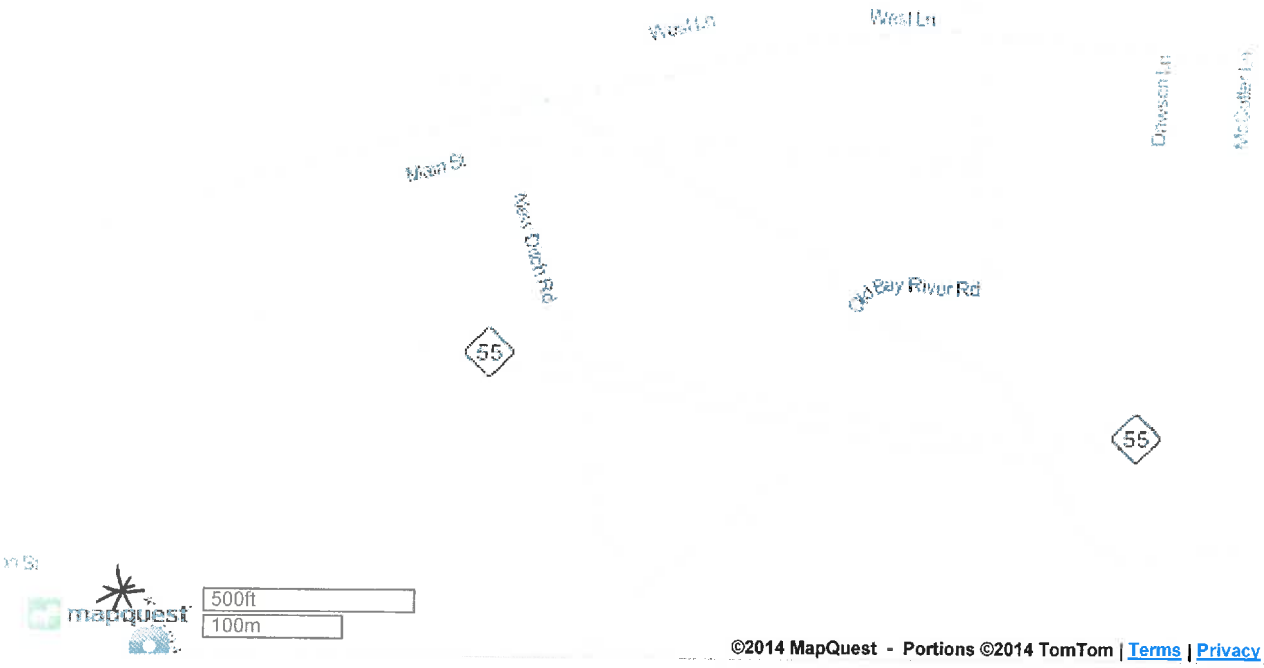
2,468 Ton of Wood Ash

2014

Notes

mapquest

Map of:
250 Keel Rd
Grantsboro, NC 28529-9424



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5-27-14

Sample Information

Sample ID: WA
Waste Code: FCW
Description:
Composted Waste - Other
Comments:
Woodash

Nutrient and Other Measurements

Nitrogen (N) (ppm)		P (ppm)	K (ppm)	Ca (ppm)	Mg (ppm)	S (ppm)	Fe (ppm)	Mn (ppm)	Zn (ppm)	Cu (ppm)	B (ppm)	Na (ppm)	C (ppm)
Total N	914	7770	28700	84700	14200	7490	22500	1660	714	260	236	3220	162000
Total Kjeldahl N													

Inorganic N	pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE (tons)	C:N
NH_4-N	10.18	68.1	1450	14.45	26.0	5.08	177 : 1
NO_3-N							

Organic N	Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)
Urea	19.3	3.33	44.9								

Estimate of Nutrients Available for First Crop (lb / ton)

Application Method	N	P_2O_5	K_2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo
Broadcast	0.50	14.6	37.6	69.3	11.7	6.13	18.4	1.36	0.58	0.21	0.19	
Soil Incorporated	0.62	18.2	42.3	86.6	14.6	7.66	23.0	1.70	0.73	0.27	0.24	

Other Elements (lb / ton)

Application Method	Cl	Na	Ni	Cd	Pb	Al	Se	Li
Broadcast		4.39	0.03	T	0.06			
Soil Incorporated		4.39	0.03	T	0.06			

Sample Information

Sample ID: TDA
Waste Code: FCW
Description:
Composted Waste - Other
Comments:
Tobacco Dust

Nutrient and Other Measurements

Nitrogen (N) (ppm)		P (ppm)	K (ppm)	Ca (ppm)	Mg (ppm)	S (ppm)	Fe (ppm)	Mn (ppm)	Zn (ppm)	Cu (ppm)	B (ppm)	Na (ppm)	C (ppm)
Total N	18500	2130	17000	20300	4470	2570	2120	124	62.6	12.3	30.1	79.0	319000
Total Kjeldahl N													
Inorganic N	260												
NH_4-N	244												
NO_3-N	15.3												
Organic N	18200												
Urea													

	pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE (tons)	C:N
	5.65	50.0	1530	15.31	0	0	17.3 : 1

	Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)
	2.32	1.30	4.87								

Estimate of Nutrients Available for First Crop (lb / ton)

Application Method	N	P_2O_5	K_2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo
Broadcast	7.38	2.93	16.3	12.2	2.68	1.54	1.27	0.07	0.04	0.01	0.02	
Soil Incorporated	9.22	3.66	18.3	15.3	3.35	1.93	1.59	0.09	0.05	0.01	0.02	

Other Elements (lb / ton)

Application Method	Cl	Na	Ni	Cd	Pb	Al	Se	Li
Broadcast		0.08	T	T	T			
Soil Incorporated		0.08	T	T	T			

Craven
AG SERVICES, INC.
2115 Hwy 55 West New Bern, NC 28562

BILLY DUNHAM, PRESIDENT
(252) 633-5334
(252) 670-8530

June 26, 2014

Wood Ash Clients:

Potter Farms-----2,268 TONS WHERE APPLIED ON 617 ACRES OF CORN AND SOYBEANS FOR AN AVERAGE OF APROXIMATELY 4 TON PER ACRE.THE ASH WAS INCOOPERATED INTO THE SOIL.

I hope your crop is doing well and we appreciate your business. I am including with your invoice a copy of the waste analysis taken on 5/27/14 of the wood ash you received. This was a random sample of our storage pile after it was screened and before it was loaded and shipped to your farm. You can pretty much depend upon at least 75% of these nutrients being available the first year. Therefore, you should not have to add any additional nutrients other than a "pop up" and nitrogen for corn. Annual soil sampling should help you monitor soil ph and other nutrients.

A summary of the analysis follows.

Nutrients received

Ton/Ac	P	K	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Lime
4	58	150	277	46	24	73	5	2	.8	.76	.8T
5	73	188	346	58.5	30	92	6	3	1	.95	1T
6	87	225	415	70	37	110	8	3	1	1	1.2T
7	102	263	485	81.9	43	129	9	4	1.5	1.3	1.4T

Billy Dunham

PRODUCT LABLE

AGRI-ASH

WOOD FLY ASH

Guaranteed Analysis

Calcium (Ca)	6%
Calcium Carbonate Equiv.	20%
Magnesium (mg)	10%
Passing 20 Mesh Screen	90%
Passing 100 Mesh Screen	45%

Total Tons per load: _____

10,000 lbs (5ton) of this material equals 2,000 lbs (1 ton) of N. C. Calcitic Liming standards.

CRAVEN AG SERVICES, INC.

2115 HWY 55 WEST

NEW BERN, N.C. 28562

Craven
AG SERVICES, INC.
2115 Hwy 55 West New Bern, NC 28562

BILLY DUNHAM, PRESIDENT
(252) 633-5334
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ANNUAL
METALS CONVERSION
FOR WOODASH
CRAVEN WOOD ENERGY
2014

Change mg/l to Mg/Kg by taking the average DM% of the NCDA Waste Analysis Report and dividing it into the mg/l value of each metal. Then converted the Mg/Kg into lbs per ton by multiplying by.002.converson factor. Then using the ALE liming factor from the NCDA Waste Analysis Report (average 5 to 1) to get the annual application rate of each metal on a per acre basis.

Metal	mg/l	mg/kg	lbs/ton	lbs/acre	Annual limit lbs/ac
Arsenic		30.7	.06	.30	1.76
Cadmium		1.78	.0006	.003	1.67
Copper		119	.231	1.15	66
Lead		24.5	.005	.24	13.2
Mercury		.17	.0003	.002	.99
Selenium		<10			
Zinc		342	.68	3.42	125

yield goals, time and method of application including surface applications or incorporation, erosion control for erodible conditions, water flow management, separation distances from surface water, and depth to groundwater.

- Best Management Practices plans shall include certification to ensure that annual pollutant loading rates and cumulative pollutant rates are consistent with 40 CFR part 503.13, Tables 2 and 4 (enclosed).

Table 4 of §503.13 **ANNUAL POLLUTANT LOADING RATES**

Pollutant	Annual Pollutant Loading Rate From Wood Ash (Kg/ha/365 day period)
Arsenic	2.0
Cadmium	1.9
Chromium	150
Copper	75
Lead	15
Mercury	0.85
Molybdenum	0.90
Nickel	21
Selenium	5.0
Zinc	140

Table 2 of §503.13 **CUMULATIVE POLLUTANT LOADING RATE**

Pollutant	Cumulative Pollutant Loading Rates From Wood Ash Kg/Ha over site life
Arsenic	41
Cadmium	39
Chromium	3000
Copper	1500
Lead	300
Mercury	17
Molybdenum	18
Nickel	420
Selenium	100
Zinc	2800

BEST MANAGEMENT PRACTICES FOR WOOD ASH USED AS AN AGRICULTURAL SOIL AMENDMENT BY CRAVEN AG SERVICES INC.

1. When ash is produced in industrial combustion systems, the temperature of combustion, cleanliness of the fuel wood, the collection location and the process can have profound effects on the nature of the ash material. Therefore, wood ash composition can be highly variable. This makes testing the wood ash very important. Therefore random samples of the wood ash being used will be sampled before being applied on farm land. This will give us a dependable data source to use in developing a nutrient plan.

2. Calcium is the most abundant element in wood ash and gives the ash properties that are similar to agricultural lime. Therefore, the limiting factor for land application in usually the Calcium Carbonate Equivalence (CCE). Ash is also a good source of potassium, phosphorus, magnesium, and aluminum. In terms of commercial fertilizer, average wood ash would probably be about 0-1-3 (N-P-K). In addition to these macronutrients, wood ash is also a good source of many micronutrients that are needed in trace amounts for adequate plant growth. Wood ash contains few elements that pose environmental problems. Heavy metal concentrations are typically low and not in a highly extractable or available form. Therefore, a waste management plan will be developed that address all nutrients that are available as well any accumulative metal precautions that should be addressed.

3. Planning for wood ash application requires several considerations. Soil nutrient level and pH must be determined through proper soil testing.

* Soils will be sampled by the farmer or representatives of Craven Ag Services Inc.

* Waste Analysis will be taken monthly by Craven Ag Services, Inc to determine the nutrient and liming value of the ash.

* Annual metals testing will be done by the generator

* Using the waste analysis,a nutrient management plan will be developed by Craven Ag Services Inc for each farm.

4. Best Management Practices (BMP'S) for spreading wood ash shall be produced by Craven Ag Services Inc. They will include the following:

* Road maps showing the general location of the farm receiving the ash

* If any storage sites are set up on these farms they shall be located on the maps along with a BMP that covers all requirements set by the Department of Solid Waste. If it is to be a permanent storage site a permit will be gotten from the department of Solid Waste before storage begins.

*A nutrient plan shall be developed for each field and will include the following:

**Soil samples of each field

**Field maps of each field

**A Waste analysis of the ash to be applied

**The actual nutrient plan showing the tons of ash to be applied per acre to maintain the soil pH within the optimum range of the intended crop growth. Even though we cannot guarantee any nutrient value for the wood ash the plan will use the average wood ash analysis to show the nutrient value of the ash being applied to the field.

* Water protection practices will include:

**Erosion possibilities. If a field has a tolerance of less than 5 tons of soil erosion per year then it is considered as having no erosion problems. Wood ash will not be applied on any fields with a tolerance of more than 5 tons.

**Separation from surface waters...25 Ft buffer is required for storage and spreading.

** Separation from drainage ...5 ft buffer with no ash applied in any drainage structure

**Distance to groundwater..ash will not be applied on fields when the water table is less than 18" of the soil surface.

**Setbacks... 25 feet from property lines...100 feet from dwellings...50 feet from well.

5. Certification to ensure that annual pollutant loading rates and cumulative pollutant rates are consistent with 40 CFR part 503.13. This will be done be including a copy of Table 4 of 503.13 and Table 2 of 503.13. These tables (found in the MANAGEMENT OF WOODASH AS A SOIL AMENDMENT) will be accompanied by a copy of the latest NCDA waste analysis and the latest copy of the metals toxicity tests.

6. To control dust the wood ash will be spread at a moisture percentage of 35 to 40 percent.

7. Wood ash will always be covered during transport to prevent losses in route to the storage or application sites.

8. Litter spreaders will be used to spread the ash evenly over the fields. Spreaders will be calibrated to be sure they are applying the proper rates per acre.

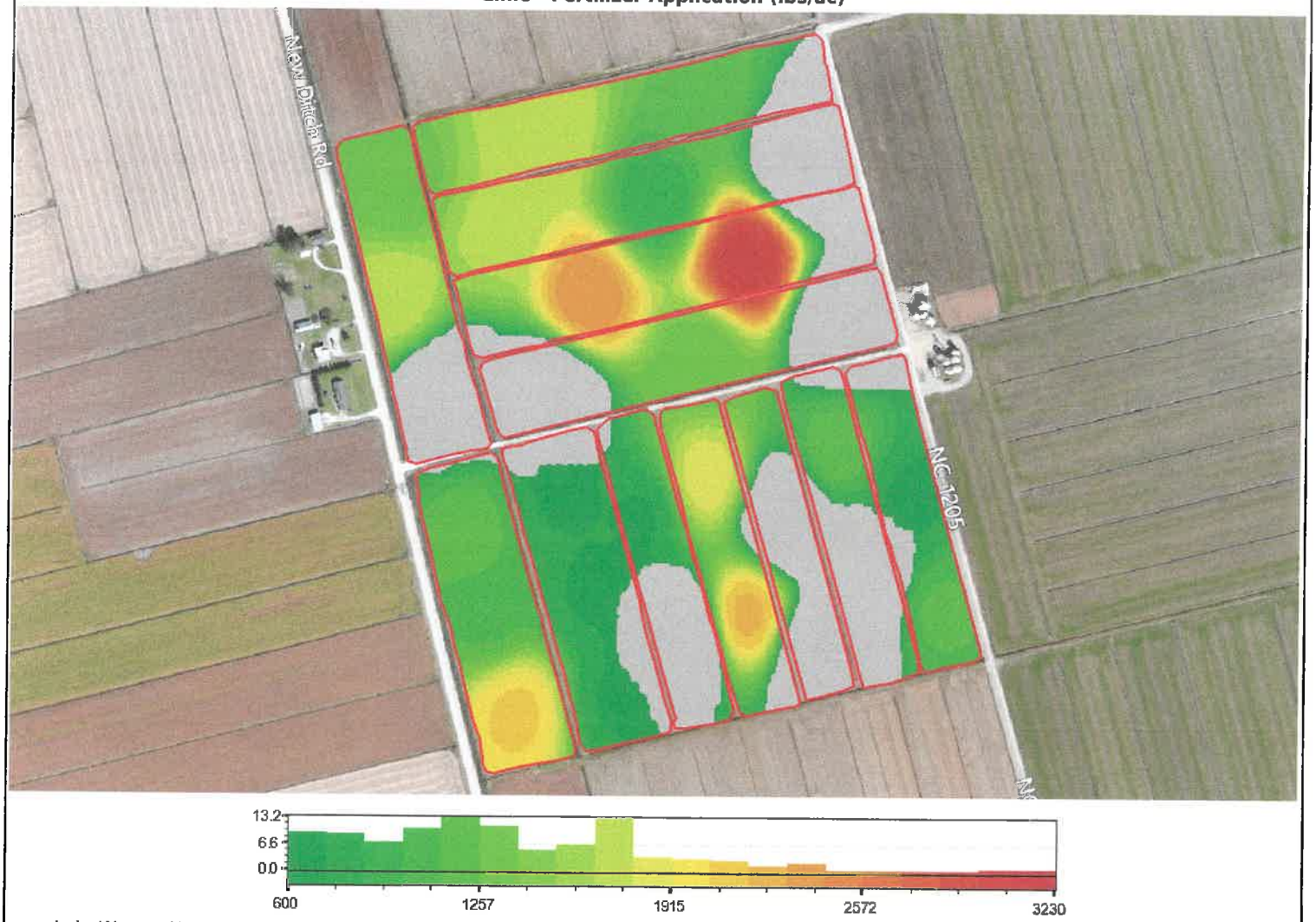
9. Health considerations will be taken into account to prevent both particle inhalation and contact with the eyes and skin. (safety glasses, masks, etc.)

echelon
THE NEXT LEVEL OF AGRICULTURAL SOLUTIONS

Fertility Analysis

Grower: Derek Potter **Farm: Tingle Waters** **Field(s): T271 1-9,T299 1-3**

Lime - Fertilizer Application (lbs/ac)



Lab: Waters NCDA Custom Eq: NCDA Recs Commodity: Small Grain Sample Date: 2014-05-23

Constraints:

Target pH: 6.0 none

Max Rate: 4000 lbs/ac Multiplier: N/A
Min Rate: 600 lbs/ac Subtract: N/A
Switch Rate: 600 lbs/ac

Minimum Application Rate:	600.0 lbs/ac	Total Product:	66862.1 lbs
Maximum Application Rate:	3229.5 lbs/ac	Total Product Bulk:	33.431 ton
Average Application Rate:	1347.5 lbs/ac	Product Cost / Bulk:	$0.0/ton
Application Area:	49.6 ac	Total Product Price:	$0.0
Average Field Rate:	969.6 lbs/ac	Application Cost / Area:	$0.0/ac
Total Area:	69.0 ac	Total Application Cost:	$0.0
		Total Cost:	$0.0

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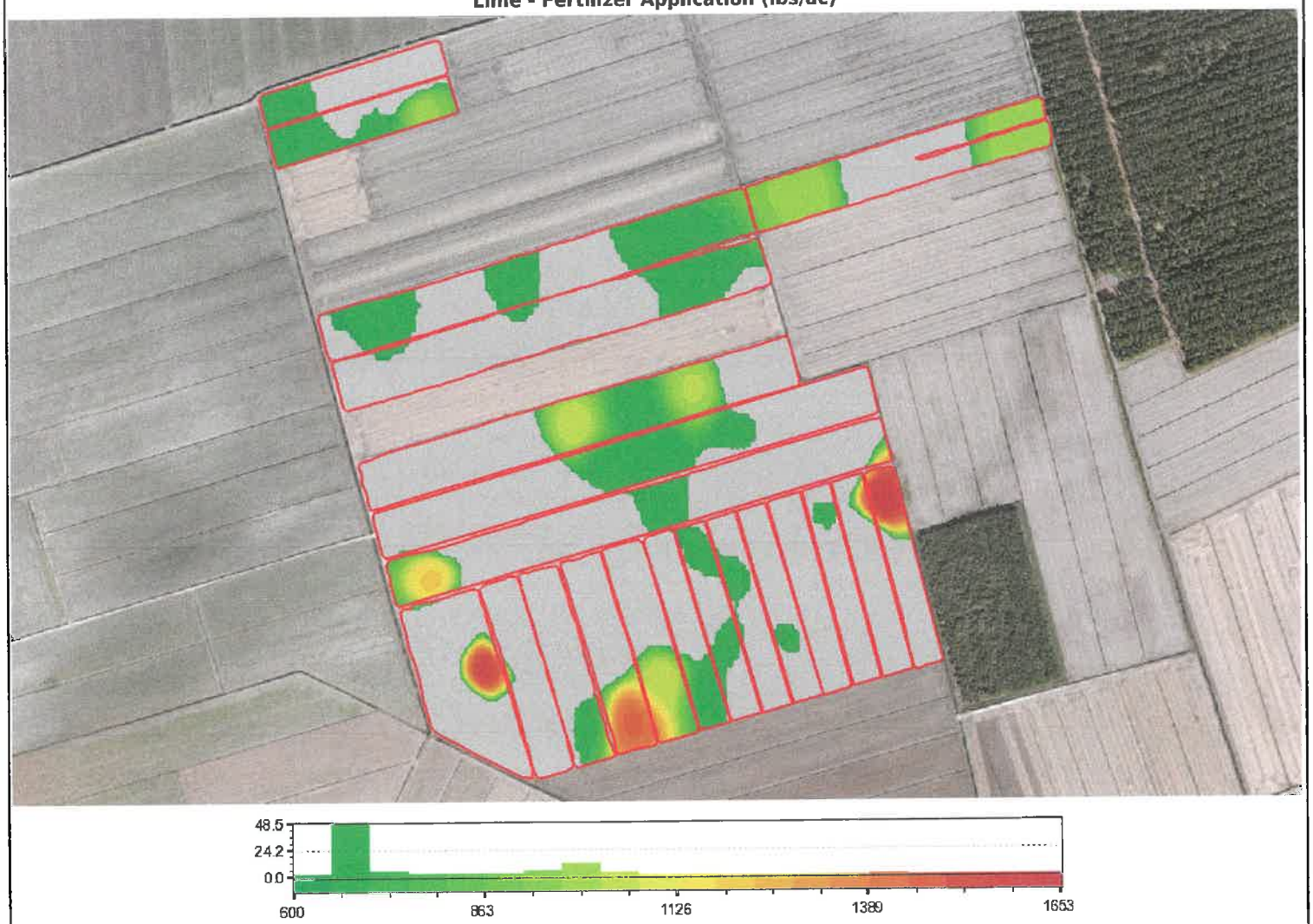
THE NEXT LEVEL OF AGRICULTURAL SOLUTIONS

Fertility Analysis

Grower: Derek Potter **Farm: Tingle Waters** **Field(s): Tract 242 1-3,Tract 255 1-3,Tract 229 1-3,Tract 214,Tract 243 1-10**

Lime - Fertilizer Application (lbs/ac)



Lab: Waters NCDA | Custom Eq: NCDA Recs | Commodity: Small Grain | Sample Date: 2014-05-27

Constraints:

Target pH: 6.0 none

Max Rate: 4000 lbs/ac Multiplier: N/A
Min Rate: 600 lbs/ac Subtract: N/A
Switch Rate: 600 lbs/ac

Minimum Application Rate:	600.0 lbs/ac	Total Product:	42517.9 lbs
Maximum Application Rate:	1652.6 lbs/ac	Total Product Bulk:	21.2589 ton
Average Application Rate:	822.3 lbs/ac	Product Cost / Bulk:	$0.0/ton
Application Area:	51.7 ac	Total Product Price:	$0.0
Average Field Rate:	272.8 lbs/ac	Application Cost / Area:	$0.0/ac
Total Area:	155.9 ac	Total Application Cost:	$0.0
		Total Cost:	$0.0

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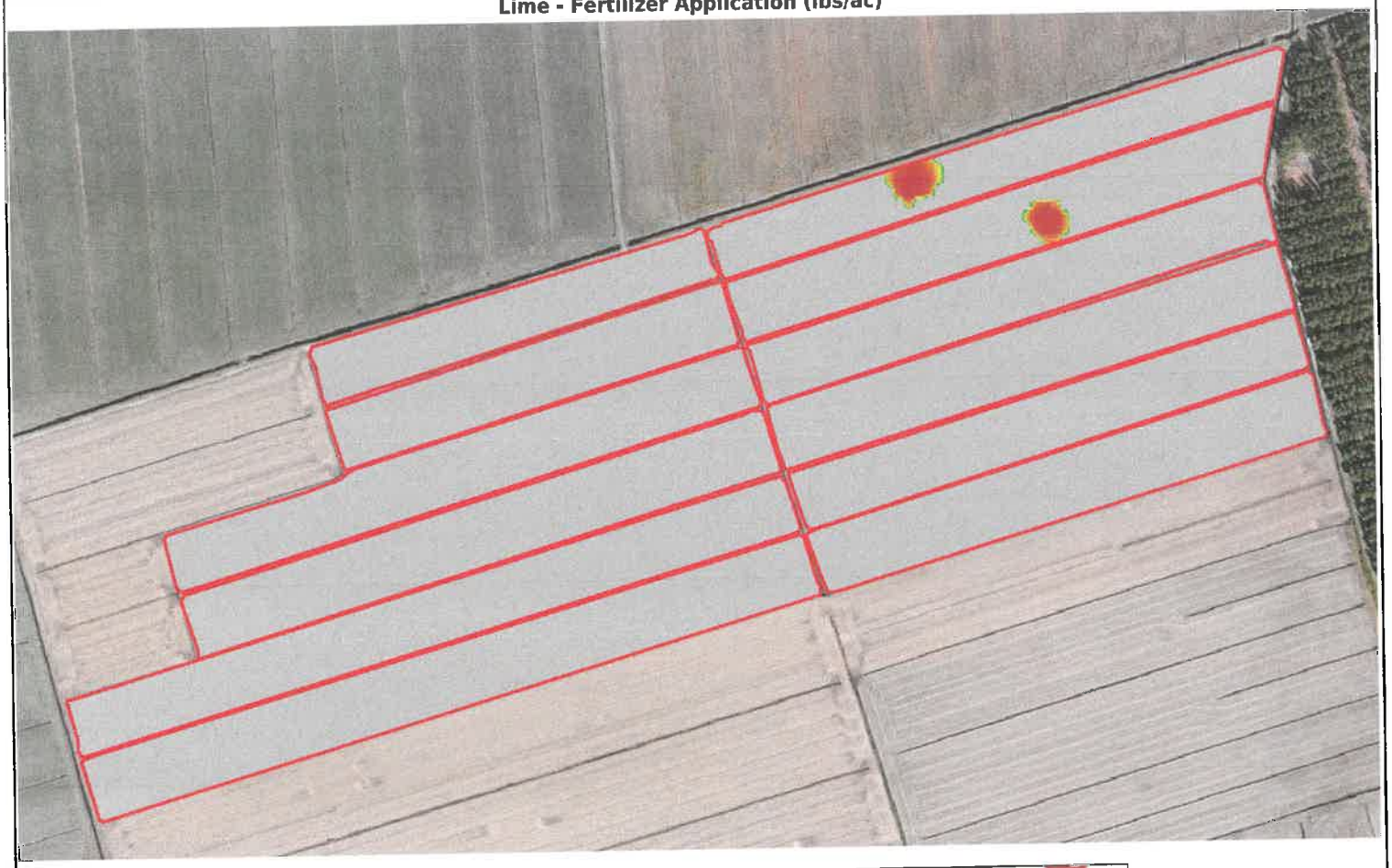
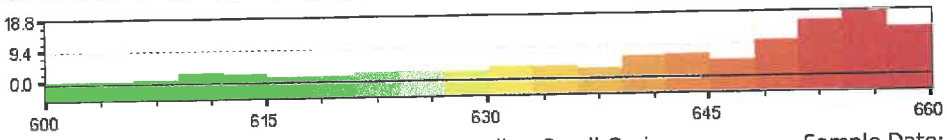
THE NEXT LEVEL OF AGRICULTURAL SOLUTIONS

Fertility Analysis

Grower: Derek Potter **Farm: Tingle Waters** **Field(s): Tingle Waters 79-90**

Lime - Fertilizer Application (lbs/ac)





Lab: Waters NCDA Custom Eq: NCDA Recs Commodity: Small Grain Sample Date: 2013-11-24

Constraints:

Target pH: 6.0 none

Max Rate: 4000 lbs/ac Multiplier: N/A
Min Rate: 600 lbs/ac Subtract: N/A
Switch Rate: 600 lbs/ac

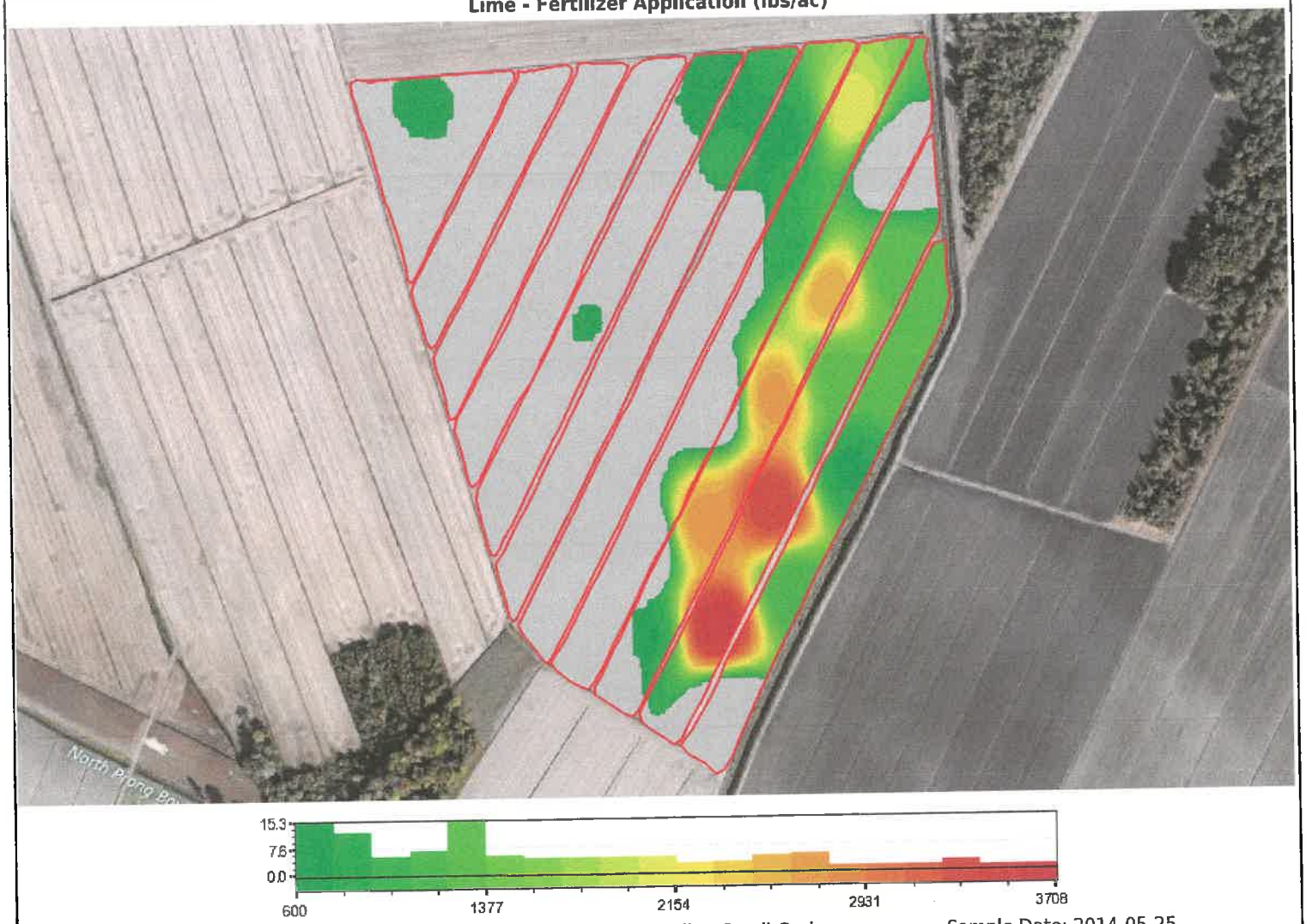
Minimum Application Rate:	600.0 lbs/ac	Total Product:	513.7 lbs
Maximum Application Rate:	659.7 lbs/ac	Total Product Bulk:	0.2568 ton
Average Application Rate:	645.5 lbs/ac	Product Cost / Bulk:	$0.0/ton
Application Area:	0.8 ac	Total Product Price:	$0.0
Average Field Rate:	5.4 lbs/ac	Application Cost / Area:	$0.0/ac
Total Area:	94.4 ac	Total Application Cost:	$0.0
		Total Cost:	$0.0

echelon
THE NEXT LEVEL OF AGRICULTURAL SOLUTIONS

Fertility Analysis

Grower: Derek Potter **Farm: Tingle Waters** **Field(s): T598 1-11**

Lime - Fertilizer Application (lbs/ac)



Lab: Waters NCDA Custom Eq: NCDA Recs Commodity: Small Grain Sample Date: 2014-05-25

Constraints:

Target pH: 6.0 none

Max Rate: 4000 lbs/ac Multiplier: N/A
Min Rate: 600 lbs/ac Subtract: N/A
Switch Rate: 600 lbs/ac

Minimum Application Rate:	600.1 lbs/ac	Total Product:	65399.9 lbs
Maximum Application Rate:	3708.0 lbs/ac	Total Product Bulk:	32.6999 ton
Average Application Rate:	1543.6 lbs/ac	Product Cost / Bulk:	$0.0/ton
Application Area:	42.4 ac	Total Product Price:	$0.0
Average Field Rate:	636.6 lbs/ac	Application Cost / Area:	$0.0/ac
Total Area:	102.7 ac	Total Application Cost:	$0.0
		Total Cost:	$0.0

echelon
THE NEXT LEVEL OF AGRICULTURAL SOLUTIONS

Master Soil Book
Sample Summary

Grower: Derek Potter Farm: Tingle Waters Field: T299 1-3

	Min	Max	Avg	
P	130.4	297.2	208.2	lbs/ac
K	181.2	303.1	235.2	lbs/ac
S	21.4	36.4	28.2	lbs/ac
Cu	2.4	2.5	2.5	lbs/ac
Mn	7.4	12.5	10.1	lbs/ac
Zn	2.8	6.8	4.2	lbs/ac
pH	5.6	6.0	5.8	none
bpH	7.3	7.6	7.5	none
CEC	8.5	11.4	10.2	meq/100g
%Mg	9.0	13.0	10.8	%
%Ca	65.0	70.0	66.4	%
AC	1.7	2.6	2.0	meq/100g
PI	61.0	139.0	97.4	none
KI	52.0	87.0	67.5	none
MgI	9.0	13.0	10.8	none
CaI	65.0	70.0	66.4	none
SI	30.0	51.0	39.6	none
MnI	26.0	44.0	35.5	none
ZnI	40.0	96.0	58.6	none
HM	1.9	2.6	2.3	%

Sample Date: 2014-05-23 Soil Lab: Waters NCDA

ID	P (lbs/ac)	K (lbs/ac)	S (lbs/ac)	Cu (lbs/ac)	Mn (lbs/ac)	Zn (lbs/ac)	pH (none)	bpH (none)	CEC (meq/100g)	%Mg (%)	%Ca (%)	AC (meq/100g)	PI (none)	KI (none)	MgI (none)	CaI (none)	SI (none)	MnI (none)	ZnI (none)	HM (%)
1	284.3	264.8	32.8	2.4	10.8	6.8	5.8	7.4	11.2	10.0	67.0	2.3	133.0	76.0	10.0	67.0	46.0	38.0	96.0	2.4
2	297.2	216.0	36.4	2.5	7.4	5.6	5.8	7.5	11.4	9.0	70.0	2.1	139.0	62.0	9.0	70.0	51.0	26.0	79.0	1.9
3	175.3	303.1	26.4	2.4	9.4	3.0	5.9	7.5	11.2	12.0	66.0	2.1	82.0	87.0	12.0	66.0	37.0	33.0	42.0	2.6
4	186.0	236.9	25.7	2.5	10.3	3.3	5.9	7.5	9.8	13.0	66.0	1.8	87.0	68.0	13.0	66.0	36.0	36.0	46.0	2.2
5	168.9	212.5	24.9	2.5	10.0	3.8	5.9	7.5	9.5	12.0	65.0	1.9	79.0	61.0	12.0	65.0	35.0	35.0	53.0	2.2
6	130.4	181.2	22.8	2.4	12.5	2.8	6.0	7.6	9.0	11.0	67.0	1.7	61.0	52.0	11.0	67.0	32.0	44.0	40.0	2.1
7	139.0	216.0	21.4	2.5	12.0	2.9	5.9	7.5	8.5	10.0	65.0	1.8	65.0	62.0	10.0	65.0	30.0	42.0	41.0	2.1
8	284.3	250.8	35.6	2.4	8.6	5.1	5.6	7.3	11.1	9.0	65.0	2.6	133.0	72.0	9.0	65.0	50.0	30.0	72.0	2.5

echelon
THE NEXT LEVEL OF AGRICULTURAL SOLUTIONS

Master Soil Book
Sample Summary

Grower: Derek Potter Farm: Tingle Waters Field: T271 1-9

	Min	Max	Avg	
P	205.2	553.7	364.0	lbs/ac
K	254.3	435.5	363.8	lbs/ac
S	17.1	32.1	26.6	lbs/ac
Cu	2.4	5.6	3.3	lbs/ac
Mn	8.0	15.7	10.6	lbs/ac
Zn	2.6	6.3	3.8	lbs/ac
pH	5.3	6.0	5.6	none
bpH	7.0	7.6	7.3	none
CEC	6.4	12.0	10.0	meq/100g
%Mg	8.0	16.0	11.2	%
%Ca	43.0	66.0	55.9	%
AC	1.5	3.9	2.8	meq/100g
PI	96.0	259.0	170.2	none
KI	73.0	125.0	104.4	none
MgI	8.0	16.0	11.2	none
CaI	43.0	66.0	55.9	none
SI	24.0	45.0	37.4	none
MnI	28.0	55.0	37.2	none
ZnI	37.0	89.0	54.2	none
HM	1.1	5.4	3.3	%

Sample Date: 2014-05-23 Soil Lab: Waters NCDA

ID	P (lbs/ac)	K (lbs/ac)	S (lbs/ac)	Cu (lbs/ac)	Mn (lbs/ac)	Zn (lbs/ac)	pH (none)	bpH (none)	CEC (meq/100g)	%Mg (%)	%Ca (%)	AC (meq/100g)	PI (none)	KI (none)	MgI (none)	CaI (none)	SI (none)	MnI (none)	ZnI (none)	HM (%)
1	444.7	393.7	29.2	2.7	11.4	6.3	5.5	7.3	11.3	11.0	59.0	2.8	208.0	113.0	11.0	59.0	41.0	40.0	89.0	3.9
2	449.0	376.3	31.4	5.6	10.5	6.3	5.6	7.5	11.1	9.0	66.0	2.2	210.0	108.0	9.0	66.0	44.0	37.0	89.0	2.1
3	425.5	296.1	28.5	3.3	10.0	6.2	5.7	7.5	9.2	12.0	63.0	1.9	199.0	85.0	12.0	63.0	40.0	35.0	87.0	1.6
4	434.0	337.9	26.4	4.1	13.4	3.8	5.6	7.5	8.7	12.0	57.0	2.2	203.0	97.0	12.0	57.0	37.0	47.0	53.0	2.5
5	205.2	254.3	17.1	2.5	15.4	4.0	5.6	7.6	6.4	13.0	59.0	1.5	96.0	73.0	13.0	59.0	24.0	54.0	56.0	1.1
6	493.9	418.1	27.1	3.8	10.0	2.9	5.7	7.4	11.4	10.0	63.0	2.5	231.0	120.0	10.0	63.0	38.0	35.0	41.0	3.3
7	354.9	310.1	20.7	3.4	10.3	3.2	5.8	7.6	8.4	9.0	65.0	1.7	166.0	89.0	9.0	65.0	29.0	36.0	45.0	1.7
8	376.3	299.6	27.1	2.8	15.7	3.0	5.3	7.2	8.5	8.0	52.0	3.0	176.0	86.0	8.0	52.0	38.0	55.0	42.0	2.5
9	478.9	351.9	25.7	3.7	13.7	2.8	5.5	7.3	9.1	9.0	56.0	2.7	224.0	101.0	9.0	56.0	36.0	48.0	40.0	2.9
10	553.7	425.0	23.5	4.1	8.6	3.2	6.0	7.4	12.0	12.0	64.0	2.3	259.0	122.0	12.0	64.0	33.0	30.0	45.0	2.8
11	511.0	428.5	25.7	4.0	9.4	3.3	5.8	7.4	11.5	11.0	62.0	2.5	239.0	123.0	11.0	62.0	36.0	33.0	46.0	2.6
12	254.4	393.7	32.1	2.6	11.1	5.6	5.4	7.2	9.8	13.0	49.0	3.2	119.0	113.0	13.0	49.0	45.0	39.0	79.0	4.2
13	284.3	351.9	29.2	2.4	11.4	6.2	5.3	7.1	9.8	12.0	46.0	3.6	133.0	101.0	12.0	46.0	41.0	40.0	88.0	4.3
14	243.7	358.9	30.6	2.9	9.1	3.5	5.3	7.0	9.7	11.0	43.0	3.9	114.0	103.0	11.0	43.0	43.0	32.0	49.0	5.4
15	205.2	320.5	31.4	2.7	9.4	3.5	5.3	7.0	9.7	11.0	45.0	3.8	96.0	92.0	11.0	45.0	44.0	33.0	49.0	4.8
16	284.3	390.2	27.8	2.9	8.6	2.8	5.5	7.2	10.8	11.0	52.0	3.4	133.0	112.0	11.0	52.0	39.0	30.0	39.0	4.3
17	312.1	411.1	26.4	2.8	9.4	3.0	5.5	7.1	11.2	10.0	53.0	3.5	146.0	118.0	10.0	53.0	37.0	33.0	42.0	5.1
18	363.5	358.9	23.5	3.2	9.1	2.8	5.6	7.3	10.3	15.0	54.0	2.8	170.0	103.0	15.0	54.0	33.0	32.0	40.0	3.0
19	367.7	369.3	24.9	3.1	8.0	2.6	5.7	7.3	10.8	16.0	53.0	2.8	172.0	106.0	16.0	53.0	35.0	28.0	37.0	3.0
20	299.3	435.5	26.4	2.9	9.7	2.8	5.6	7.2	10.7	11.0	55.0	3.1	140.0	125.0	11.0	55.0	37.0	34.0	39.0	3.7
21	301.5	358.9	24.9	3.0	8.6	3.0	5.6	7.3	10.3	10.0	58.0	2.7	141.0	103.0	10.0	58.0	35.0	30.0	43.0	4.4

echelon
THE NEXT LEVEL OF AGRICULTURAL SOLUTIONS

Master Soil Book
Sample Summary

Grower: Derek Potter Farm: Tingle Waters Field: Tract 214

	Min	Max	Avg	
P	198.8	267.2	232.7	lbs/ac
K	188.1	331.0	274.1	lbs/ac
S	32.1	38.5	36.0	lbs/ac
Cu	1.2	1.6	1.4	lbs/ac
Mn	9.1	16.8	13.4	lbs/ac
Zn	4.7	15.9	9.8	lbs/ac
pH	4.8	5.4	5.0	none
bpH	6.9	7.3	7.1	none
CEC	9.1	10.7	9.9	meq/100g
%Mg	8.0	13.0	10.5	%
%Ca	44.0	55.0	48.2	%
AC	2.7	4.4	3.7	meq/100g
PI	93.0	125.0	108.8	none
KI	54.0	95.0	78.7	none
MgI	8.0	13.0	10.5	none
CaI	44.0	55.0	48.2	none
SI	45.0	54.0	50.5	none
MnI	32.0	59.0	47.2	none
ZnI	66.0	224.0	137.7	none
HM	4.7	8.9	6.9	%

Sample Date: 2014-05-27 Soil Lab: Waters NCDA

ID	P (lbs/ac)	K (lbs/ac)	S (lbs/ac)	Cu (lbs/ac)	Mn (lbs/ac)	Zn (lbs/ac)	pH (none)	bpH (none)	CEC (meq/100g)	%Mg (%)	%Ca (%)	AC (meq/100g)	PI (none)	KI (none)	MgI (none)	CaI (none)	SI (none)	MnI (none)	ZnI (none)	HM (%)
1	218.1	331.0	32.1	1.2	9.1	4.7	5.4	7.3	10.0	13.0	55.0	2.7	102.0	95.0	13.0	55.0	45.0	32.0	66.0	4.7
2	198.8	275.2	37.8	1.3	11.1	7.0	5.0	7.0	9.5	8.0	48.0	3.8	93.0	79.0	8.0	48.0	53.0	39.0	98.0	6.6
3	267.2	236.9	37.1	1.6	16.5	8.2	4.9	7.0	9.1	10.0	45.0	3.8	125.0	68.0	10.0	45.0	52.0	58.0	115.0	6.8
4	248.0	188.1	35.6	1.5	16.8	15.9	4.8	6.9	10.1	10.0	44.0	4.4	116.0	54.0	10.0	44.0	50.0	59.0	224.0	8.9
5	213.8	317.0	34.9	1.4	10.3	7.7	5.3	7.2	9.8	12.0	51.0	3.2	100.0	91.0	12.0	51.0	49.0	36.0	108.0	5.5
6	250.1	296.1	38.5	1.6	16.8	15.3	4.9	6.9	10.7	10.0	46.0	4.3	117.0	85.0	10.0	46.0	54.0	59.0	215.0	8.9

echelon
THE NEXT LEVEL OF AGRICULTURAL SOLUTIONS

Master Soil Book
Sample Summary

Grower: Derek Potter Farm: Tingle Waters Field: T1816

	Min	Max	Avg	
P	166.8	198.8	182.8	lbs/ac
K	303.1	372.8	337.9	lbs/ac
S	32.8	40.6	36.7	lbs/ac
Cu	1.6	2.2	1.9	lbs/ac
Mn	10.8	12.5	11.7	lbs/ac
Zn	9.5	15.6	12.6	lbs/ac
pH	5.3	5.8	5.5	none
bpH	6.8	7.3	7.0	none
CEC	10.6	13.2	11.9	meq/100g
%Mg	14.0	14.0	14.0	%
%Ca	45.0	54.0	49.5	%
AC	2.8	5.0	3.9	meq/100g
PI	78.0	93.0	85.5	none
KI	87.0	107.0	97.0	none
MgI	14.0	14.0	14.0	none
CaI	45.0	54.0	49.5	none
SI	46.0	57.0	51.5	none
MnI	38.0	44.0	41.0	none
ZnI	134.0	220.0	177.0	none
HM	6.0	8.9	7.4	%

Sample Date: 2014-05-26 Soil Lab: Waters NCDA

ID	P (lbs/ac)	K (lbs/ac)	S (lbs/ac)	Cu (lbs/ac)	Mn (lbs/ac)	Zn (lbs/ac)	pH (none)	bpH (none)	CEC (meq/100g)	%Mg (%)	%Ca (%)	AC (meq/100g)	PI (none)	KI (none)	MgI (none)	CaI (none)	SI (none)	MnI (none)	ZnI (none)	HM (%)
1	166.8	303.1	32.8	1.6	12.5	15.6	5.3	6.8	13.2	14.0	45.0	5.0	78.0	87.0	14.0	45.0	46.0	44.0	220.0	8.9
2	198.8	372.8	40.6	2.2	10.8	9.5	5.8	7.3	10.6	14.0	54.0	2.8	93.0	107.0	14.0	54.0	57.0	38.0	134.0	6.0

echelon
THE NEXT LEVEL OF AGRICULTURAL SOLUTIONS

Master Soil Book
Sample Summary

Grower: Derek Potter Farm: Tingle Waters Field: T598 1-11

	Min	Max	Avg	
P	111.2	344.2	203.6	lbs/ac
K	94.1	397.2	161.0	lbs/ac
S	21.4	34.9	26.1	lbs/ac
Cu	1.6	8.9	3.4	lbs/ac
Mn	12.5	35.0	21.5	lbs/ac
Zn	11.4	52.7	35.0	lbs/ac
pH	4.4	5.6	5.0	none
bpH	6.2	7.3	6.7	none
CEC	9.6	22.9	17.5	meq/100g
%Mg	5.0	18.0	11.1	%
%Ca	43.0	67.0	56.7	%
AC	2.8	7.2	5.2	meq/100g
PI	52.0	161.0	95.2	none
KI	27.0	114.0	46.2	none
MgI	5.0	18.0	11.1	none
CaI	43.0	67.0	56.7	none
SI	30.0	49.0	36.6	none
MnI	44.0	123.0	75.5	none
ZnI	160.0	743.0	493.1	none
HM	4.3	10.0	9.2	%

Sample Date: 2014-05-25 Soil Lab: Waters NCDA

ID	P (lbs/ac)	K (lbs/ac)	S (lbs/ac)	Cu (lbs/ac)	Mn (lbs/ac)	Zn (lbs/ac)	pH (none)	bpH (none)	CEC (meq/100g)	%Mg (%)	%Ca (%)	AC (meq/100g)	PI (none)	KI (none)	MgI (none)	CaI (none)	SI (none)	MnI (none)	ZnI (none)	HM (%)
1	307.9	317.0	31.4	2.5	25.4	20.2	4.8	6.5	12.2	6.0	43.0	5.8	144.0	91.0	6.0	43.0	44.0	89.0	284.0	8.9
2	260.8	226.5	27.1	2.5	21.1	18.3	4.9	6.8	10.6	5.0	45.0	5.0	122.0	65.0	5.0	45.0	38.0	74.0	258.0	7.2
3	254.4	303.1	22.8	3.0	24.2	11.4	5.3	7.2	9.6	7.0	54.0	3.3	119.0	87.0	7.0	54.0	32.0	85.0	160.0	4.3
4	297.2	397.2	24.2	3.5	20.5	13.3	5.6	7.3	13.2	7.0	67.0	2.8	139.0	114.0	7.0	67.0	34.0	72.0	188.0	4.4
5	248.0	184.7	32.8	2.3	23.1	21.6	4.4	6.3	13.9	6.0	44.0	6.8	116.0	53.0	6.0	44.0	46.0	81.0	304.0	10.0
6	224.5	240.4	34.9	2.0	23.9	21.4	4.5	6.2	15.9	6.0	46.0	7.2	105.0	69.0	6.0	46.0	49.0	84.0	302.0	10.0
7	250.1	132.4	26.4	2.2	18.8	19.4	4.8	6.6	13.4	7.0	49.0	5.7	117.0	38.0	7.0	49.0	37.0	66.0	273.0	10.0
8	252.3	170.7	30.6	2.3	21.1	23.0	4.8	6.6	17.2	7.0	59.0	5.6	118.0	49.0	7.0	59.0	43.0	74.0	324.0	10.0
9	295.0	163.7	25.7	2.5	21.9	46.0	5.2	6.8	19.9	14.0	62.0	4.6	138.0	47.0	14.0	62.0	36.0	77.0	648.0	8.9
10	297.2	195.1	29.2	2.3	27.9	29.4	4.6	6.4	17.1	10.0	51.0	6.5	139.0	56.0	10.0	51.0	41.0	98.0	414.0	10.0
11	284.3	156.8	24.9	2.2	24.2	20.2	4.5	6.6	12.3	7.0	45.0	5.7	133.0	45.0	7.0	45.0	35.0	85.0	285.0	9.6
12	322.8	174.2	29.9	2.2	27.4	23.7	4.6	6.3	14.1	7.0	43.0	6.8	151.0	50.0	7.0	43.0	42.0	96.0	334.0	10.0
13	295.0	226.5	32.1	2.4	27.4	26.0	4.9	6.7	14.7	8.0	55.0	5.1	138.0	65.0	8.0	55.0	45.0	96.0	366.0	10.0
14	320.7	229.9	29.2	1.6	23.6	31.4	5.0	6.8	15.4	10.0	55.0	5.0	150.0	66.0	10.0	55.0	41.0	83.0	443.0	10.0
15	344.2	212.5	22.8	1.6	23.1	35.1	5.0	6.7	15.5	10.0	54.0	5.3	161.0	61.0	10.0	54.0	32.0	81.0	494.0	10.0
16	325.0	184.7	25.7	1.7	30.5	39.8	5.0	6.6	18.1	14.0	54.0	5.6	152.0	53.0	14.0	54.0	36.0	107.0	560.0	10.0
17	269.4	198.6	22.8	1.9	29.9	41.0	4.9	6.5	21.0	18.0	51.0	6.2	126.0	57.0	18.0	51.0	32.0	105.0	577.0	10.0
18	171.0	191.6	22.8	2.1	27.9	35.0	4.7	6.3	19.8	15.0	50.0	6.7	80.0	55.0	15.0	50.0	32.0	98.0	493.0	10.0
19	151.8	163.7	27.1	3.8	35.0	43.9	4.9	6.6	22.3	18.0	56.0	5.6	71.0	47.0	18.0	56.0	38.0	123.0	619.0	10.0
20	143.2	132.4	22.1	4.5	25.9	46.7	5.2	6.8	21.8	18.0	59.0	4.8	67.0	38.0	18.0	59.0	31.0	91.0	658.0	9.2
21	179.6	94.1	23.5	4.4	26.2	48.1	5.4	6.9	21.9	18.0	61.0	4.4	84.0	27.0	18.0	61.0	33.0	92.0	677.0	8.2

echelon
THE NEXT LEVEL OF AGRICULTURAL SOLUTIONS

ID	P (lbs/ac)	K (lbs/ac)	S (lbs/ac)	Cu (lbs/ac)	Mn (lbs/ac)	Zn (lbs/ac)	pH (none)	bpH (none)	CEC (meq/100g)	%Mg (%)	%Ca (%)	AC (meq/100g)	PI (none)	KI (none)	MgI (none)	CaI (none)	SI (none)	MnI (none)	ZnI (none)	HM (%)
22	209.5	104.5	29.2	4.3	26.8	49.1	5.2	6.9	20.9	18.0	61.0	4.4	98.0	30.0	18.0	61.0	41.0	94.0	691.0	9.2
23	248.0	177.7	25.7	3.9	21.9	44.4	5.2	6.8	18.8	13.0	60.0	4.8	116.0	51.0	13.0	60.0	36.0	77.0	626.0	9.6
24	171.0	118.5	23.5	4.3	17.1	51.3	5.5	7.0	22.9	14.0	67.0	4.2	80.0	34.0	14.0	67.0	33.0	60.0	722.0	9.2
25	132.6	121.9	24.9	8.9	17.4	46.5	5.3	6.9	20.8	13.0	65.0	4.4	62.0	35.0	13.0	65.0	35.0	61.0	655.0	9.2
26	117.6	108.0	25.7	3.9	19.7	37.8	5.2	6.8	19.0	12.0	62.0	4.8	55.0	31.0	12.0	62.0	36.0	69.0	533.0	8.2
27	132.6	149.8	28.5	3.6	19.9	38.8	4.9	6.5	21.0	12.0	58.0	6.0	62.0	43.0	12.0	58.0	40.0	70.0	546.0	10.0
28	111.2	111.5	22.8	3.9	17.4	37.7	4.9	6.7	18.1	13.0	56.0	5.4	52.0	32.0	13.0	56.0	32.0	61.0	531.0	10.0
29	121.9	135.9	25.7	3.6	18.8	47.9	5.2	6.8	22.3	15.0	64.0	4.6	57.0	39.0	15.0	64.0	36.0	66.0	674.0	10.0
30	121.9	101.0	21.4	3.6	18.8	39.0	4.9	6.7	18.4	11.0	59.0	5.4	57.0	29.0	11.0	59.0	30.0	66.0	550.0	10.0
31	119.7	94.1	22.8	4.1	20.5	39.7	5.1	6.8	18.6	12.0	62.0	4.7	56.0	27.0	12.0	62.0	32.0	72.0	559.0	9.2
32	141.1	97.5	23.5	4.7	17.1	45.8	5.3	6.9	18.8	11.0	65.0	4.3	66.0	28.0	11.0	65.0	33.0	60.0	645.0	8.5
33	136.8	111.5	24.2	4.6	18.8	52.7	5.3	6.8	20.9	13.0	64.0	4.7	64.0	32.0	13.0	64.0	34.0	66.0	743.0	9.6
34	115.5	104.5	22.1	4.2	17.4	46.5	5.2	6.8	19.4	13.0	62.0	4.7	54.0	30.0	13.0	62.0	31.0	61.0	655.0	8.5
35	121.9	104.5	23.5	4.0	18.2	46.3	5.2	6.7	20.1	12.0	61.0	5.2	57.0	30.0	12.0	61.0	33.0	64.0	652.0	9.2
36	128.3	135.9	22.8	4.4	16.0	39.4	5.1	6.6	18.9	10.0	59.0	5.6	60.0	39.0	10.0	59.0	32.0	56.0	555.0	9.2
37	145.4	135.9	23.5	3.6	14.0	33.9	5.1	6.7	17.3	9.0	61.0	5.1	68.0	39.0	9.0	61.0	33.0	49.0	477.0	8.5
38	143.2	121.9	27.1	4.1	14.8	37.5	5.0	6.6	19.0	10.0	59.0	5.6	67.0	35.0	10.0	59.0	38.0	52.0	529.0	10.0
39	162.5	118.5	26.4	3.3	14.2	30.6	5.0	6.7	17.8	8.0	61.0	5.3	76.0	34.0	8.0	61.0	37.0	50.0	431.0	9.6
40	119.7	104.5	27.1	4.1	12.5	27.6	5.0	6.8	15.6	8.0	60.0	4.8	56.0	30.0	8.0	60.0	38.0	44.0	389.0	8.9
41	162.5	108.0	29.2	3.9	16.8	34.9	5.0	6.8	15.0	11.0	57.0	4.6	76.0	31.0	11.0	57.0	41.0	59.0	492.0	9.2
42	194.6	101.0	27.8	4.9	16.8	28.0	4.9	7.0	12.3	11.0	54.0	4.1	91.0	29.0	11.0	54.0	39.0	59.0	395.0	7.7

echelon
THE NEXT LEVEL OF AGRICULTURAL SOLUTIONS

Master Soil Book
Sample Summary

Grower: Derek Potter Farm: Tingle Waters Field: Tract 229 1-3

	Min	Max	Avg	
P	228.8	346.4	279.8	lbs/ac
K	142.8	425.0	257.8	lbs/ac
S	31.4	42.8	35.7	lbs/ac
Cu	1.6	4.4	2.9	lbs/ac
Mn	10.8	15.7	13.0	lbs/ac
Zn	5.8	22.9	13.3	lbs/ac
pH	4.8	5.4	5.0	none
bpH	6.8	7.2	7.0	none
CEC	7.6	13.6	10.5	meq/100g
%Mg	8.0	13.0	10.8	%
%Ca	38.0	51.0	46.3	%
AC	3.1	4.7	4.0	meq/100g
PI	107.0	162.0	130.9	none
KI	41.0	122.0	74.0	none
MgI	8.0	13.0	10.8	none
CaI	38.0	51.0	46.3	none
SI	44.0	60.0	50.1	none
MnI	38.0	55.0	45.8	none
ZnI	81.0	323.0	187.7	none
HM	5.2	10.0	8.2	%

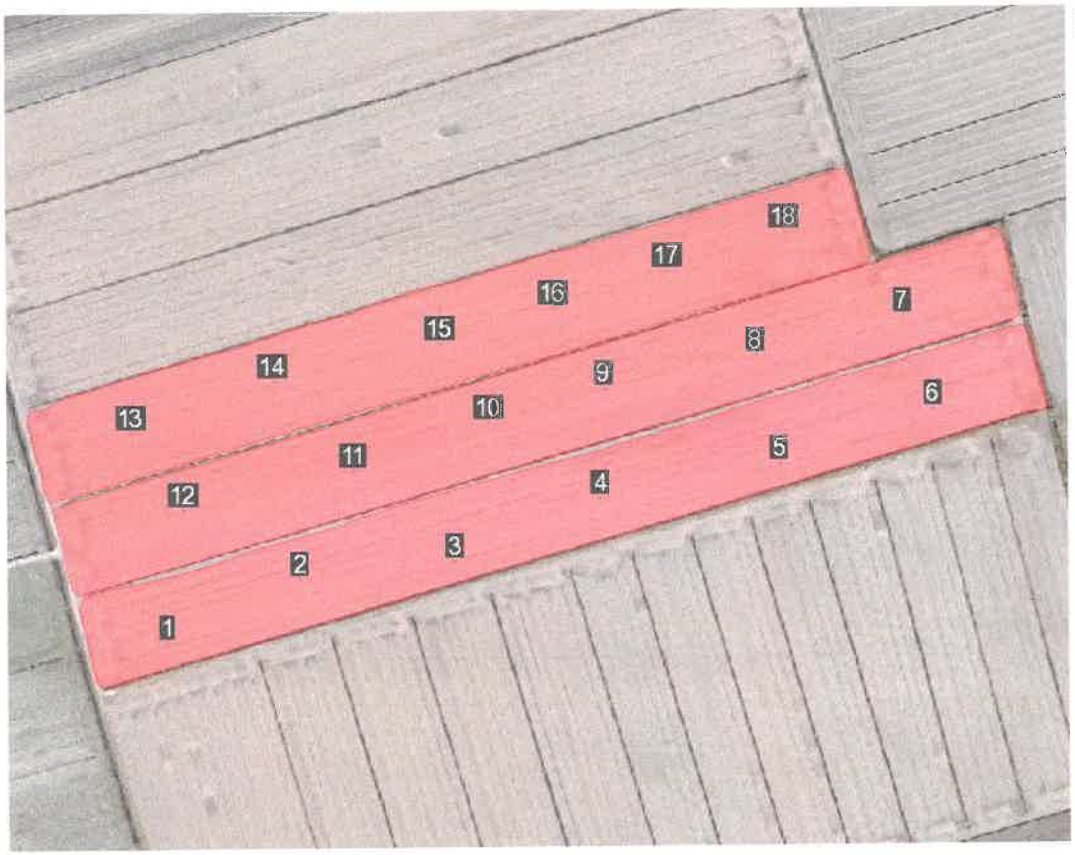
Sample Date: 2014-05-27 Soil Lab: Waters NCDA

ID	P (lbs/ac)	K (lbs/ac)	S (lbs/ac)	Cu (lbs/ac)	Mn (lbs/ac)	Zn (lbs/ac)	pH (none)	bpH (none)	CEC (meq/100g)	%Mg (%)	%Ca (%)	AC (meq/100g)	PI (none)	KI (none)	MgI (none)	CaI (none)	SI (none)	MnI (none)	ZnI (none)	HM (%)
1	322.8	425.0	33.5	4.4	11.7	8.4	5.1	7.1	11.1	13.0	50.0	3.5	151.0	122.0	13.0	50.0	47.0	41.0	119.0	6.2
2	254.4	257.8	38.5	3.2	13.7	15.3	5.0	7.0	11.6	12.0	50.0	4.0	119.0	74.0	12.0	50.0	54.0	48.0	216.0	9.2
3	267.2	198.6	31.4	3.0	14.2	20.5	4.9	6.9	12.1	11.0	50.0	4.5	125.0	57.0	11.0	50.0	44.0	50.0	289.0	10.0
4	250.1	233.4	32.8	2.6	15.7	22.9	4.9	6.8	13.6	12.0	51.0	4.7	117.0	67.0	12.0	51.0	46.0	55.0	323.0	10.0
5	233.0	324.0	38.5	2.7	14.2	13.0	4.9	7.0	11.4	12.0	48.0	4.2	109.0	93.0	12.0	48.0	54.0	50.0	183.0	9.2
6	346.4	369.3	32.1	3.5	12.2	5.8	5.4	7.2	9.8	13.0	50.0	3.1	162.0	106.0	13.0	50.0	45.0	43.0	81.0	5.2
7	339.9	184.7	36.4	2.9	12.8	13.3	4.8	6.9	8.6	8.0	38.0	4.4	159.0	53.0	8.0	38.0	51.0	45.0	187.0	9.6
8	275.8	184.7	35.6	2.0	12.0	11.6	5.1	7.1	7.6	8.0	42.0	3.5	129.0	53.0	8.0	42.0	50.0	42.0	163.0	7.5
9	228.8	142.8	42.8	1.6	10.8	9.1	4.8	6.9	8.7	8.0	38.0	4.5	107.0	41.0	8.0	38.0	60.0	38.0	128.0	7.2

echelon
THE NEXT LEVEL OF AGRICULTURAL SOLUTIONS

Master Soil Book
Sample Summary

Grower: Derek Potter Farm: Tingle Waters Field: Tract 255 1-3



	Min	Max	Avg	
P	156.1	224.5	201.9	lbs/ac
K	142.8	418.1	243.5	lbs/ac
S	24.2	45.6	35.4	lbs/ac
Cu	1.6	2.9	2.2	lbs/ac
Mn	7.7	22.8	14.0	lbs/ac
Zn	1.7	14.8	7.1	lbs/ac
pH	4.8	6.1	5.2	none
bpH	6.8	7.5	7.0	none
CEC	8.2	12.9	10.5	meq/100g
%Mg	5.0	19.0	10.3	%
%Ca	40.0	59.0	48.2	%
AC	1.8	5.0	4.0	meq/100g
PI	73.0	105.0	94.4	none
KI	41.0	120.0	69.9	none
MgI	5.0	19.0	10.3	none
CaI	40.0	59.0	48.2	none
SI	34.0	64.0	49.7	none
MnI	27.0	80.0	49.3	none
ZnI	24.0	209.0	99.7	none
HM	2.7	9.2	6.6	%

Sample Date: 2014-05-27 Soil Lab: Waters NCDA

ID	P (lbs/ac)	K (lbs/ac)	S (lbs/ac)	Cu (lbs/ac)	Mn (lbs/ac)	Zn (lbs/ac)	pH (none)	bpH (none)	CEC (meq/100g)	%Mg (%)	%Ca (%)	AC (meq/100g)	PI (none)	KI (none)	MgI (none)	CaI (none)	SI (none)	MnI (none)	ZnI (none)	HM (%)
1	224.5	418.1	30.6	2.6	7.7	2.5	5.8	7.4	10.0	16.0	54.0	2.4	105.0	120.0	16.0	54.0	43.0	27.0	36.0	2.8
2	224.5	331.0	34.9	2.3	8.8	2.7	5.3	7.0	10.6	13.0	45.0	4.0	105.0	95.0	13.0	45.0	49.0	31.0	38.0	5.4
3	207.4	299.6	34.9	2.0	11.1	2.0	5.2	7.1	9.2	10.0	45.0	3.7	97.0	86.0	10.0	45.0	49.0	39.0	28.0	5.5
4	160.3	174.2	45.6	2.3	21.1	6.7	4.9	6.8	10.7	7.0	45.0	4.8	75.0	50.0	7.0	45.0	64.0	74.0	95.0	7.2
5	188.1	184.7	37.1	1.8	14.0	12.1	5.0	6.8	12.9	12.0	48.0	4.8	88.0	53.0	12.0	48.0	52.0	49.0	171.0	9.2
6	156.1	177.7	34.2	1.6	16.0	9.1	5.1	7.0	10.5	9.0	50.0	4.0	73.0	51.0	9.0	50.0	48.0	56.0	128.0	8.0
7	215.9	177.7	40.6	2.9	22.8	11.6	5.1	7.0	11.5	8.0	55.0	4.0	101.0	51.0	8.0	55.0	57.0	80.0	163.0	8.0
8	190.3	142.8	39.2	2.4	20.8	12.5	4.9	6.8	11.5	7.0	47.0	5.0	89.0	41.0	7.0	47.0	55.0	73.0	176.0	9.2
9	213.8	160.3	35.6	2.5	15.4	7.0	4.9	7.0	8.2	5.0	42.0	4.1	100.0	46.0	5.0	42.0	50.0	54.0	98.0	6.4
10	222.3	250.8	38.5	2.5	12.2	4.5	4.9	6.8	9.8	8.0	40.0	4.7	104.0	72.0	8.0	40.0	54.0	43.0	64.0	6.8
11	207.4	327.5	40.6	1.9	12.0	2.7	5.0	7.0	10.3	10.0	44.0	4.2	97.0	94.0	10.0	44.0	57.0	42.0	38.0	6.4
12	203.1	296.1	28.5	2.2	8.6	1.7	6.1	7.5	9.7	19.0	59.0	1.8	95.0	85.0	19.0	59.0	40.0	30.0	24.0	2.7
13	205.2	282.2	24.2	2.3	10.0	2.0	6.0	7.5	9.7	17.0	58.0	2.0	96.0	81.0	17.0	58.0	34.0	35.0	28.0	2.7
14	205.2	317.0	37.1	2.2	10.8	4.3	5.0	7.0	10.6	11.0	46.0	4.1	96.0	91.0	11.0	46.0	52.0	38.0	60.0	6.0
15	218.1	310.1	37.8	2.2	12.0	6.5	4.8	6.8	10.6	9.0	43.0	4.7	102.0	89.0	9.0	43.0	53.0	42.0	92.0	7.5
16	194.6	195.1	34.2	2.3	13.7	11.5	4.9	6.8	10.6	8.0	45.0	4.6	91.0	56.0	8.0	45.0	48.0	48.0	162.0	8.9
17	186.0	170.7	31.4	2.0	15.7	13.1	4.8	6.8	10.3	7.0	46.0	4.6	87.0	49.0	7.0	46.0	44.0	55.0	184.0	8.0
18	211.7	167.2	32.8	2.2	20.2	14.8	5.1	7.0	12.0	9.0	56.0	4.0	99.0	48.0	9.0	56.0	46.0	71.0	209.0	8.2

echelon
THE NEXT LEVEL OF AGRICULTURAL SOLUTIONS

Master Soil Book
Sample Summary

Grower: Derek Potter Farm: Tingle Waters Field: Tract 242 1-3

	Min	Max	Avg	
P	196.7	389.1	283.4	lbs/ac
K	292.6	484.3	365.8	lbs/ac
S	17.1	32.8	24.8	lbs/ac
Cu	2.9	5.4	4.0	lbs/ac
Mn	8.0	16.2	11.3	lbs/ac
Zn	3.2	6.2	4.9	lbs/ac
pH	5.6	6.3	5.9	none
bpH	7.3	7.7	7.5	none
CEC	7.2	13.0	9.5	meq/100g
%Mg	11.0	18.0	14.7	%
%Ca	52.0	64.0	59.2	%
AC	1.2	2.6	1.9	meq/100g
PI	92.0	182.0	132.6	none
KI	84.0	139.0	105.0	none
MgI	11.0	18.0	14.7	none
CaI	52.0	64.0	59.2	none
SI	24.0	46.0	34.8	none
MnI	28.0	57.0	39.6	none
ZnI	45.0	87.0	68.4	none
HM	0.76	4.3	2.0	%

Sample Date: 2014-05-27 Soil Lab: Waters NCDA

ID	P (lbs/ac)	K (lbs/ac)	S (lbs/ac)	Cu (lbs/ac)	Mn (lbs/ac)	Zn (lbs/ac)	pH (none)	bpH (none)	CEC (meq/100g)	%Mg (%)	%Ca (%)	AC (meq/100g)	PI (none)	KI (none)	MgI (none)	CaI (none)	SI (none)	MnI (none)	ZnI (none)	HM (%)
1	344.2	292.6	20.7	5.0	12.8	6.2	5.9	7.6	7.2	14.0	57.0	1.6	161.0	84.0	14.0	57.0	29.0	45.0	87.0	1.2
2	335.7	400.7	32.8	5.1	11.7	5.3	5.6	7.3	10.4	15.0	55.0	2.6	157.0	115.0	15.0	55.0	46.0	41.0	75.0	4.3
3	346.4	484.3	29.9	4.2	10.0	3.7	5.7	7.3	13.0	14.0	61.0	2.6	162.0	139.0	14.0	61.0	42.0	35.0	52.0	3.6
4	389.1	411.1	24.9	5.4	14.2	5.6	6.0	7.5	9.4	11.0	64.0	1.8	182.0	118.0	11.0	64.0	35.0	50.0	79.0	1.4
5	254.4	355.4	27.1	3.7	9.4	4.5	6.3	7.6	11.3	18.0	64.0	1.6	119.0	102.0	18.0	64.0	38.0	33.0	64.0	1.7
6	254.4	386.7	24.9	3.0	8.0	4.3	6.0	7.5	10.1	15.0	61.0	1.8	119.0	111.0	15.0	61.0	35.0	28.0	61.0	1.7
7	233.0	327.5	20.7	3.2	11.1	4.8	6.0	7.6	7.8	14.0	58.0	1.6	109.0	94.0	14.0	58.0	29.0	39.0	67.0	1.3
8	196.7	296.1	17.1	2.9	16.2	6.1	6.3	7.7	7.3	16.0	61.0	1.2	92.0	85.0	16.0	61.0	24.0	57.0	86.0	0.76
9	196.7	337.9	24.9	3.4	8.0	3.2	5.7	7.4	8.8	15.0	52.0	2.4	92.0	97.0	15.0	52.0	35.0	28.0	45.0	1.9

echelon
THE NEXT LEVEL OF AGRICULTURAL SOLUTIONS

Master Soil Book
Sample Summary

Grower: Derek Potter Farm: Tingle Waters Field: Tract 243 1-10

	Min	Max	Avg	
P	198.8	412.6	260.8	lbs/ac
K	167.2	362.3	230.6	lbs/ac
S	27.8	43.5	37.1	lbs/ac
Cu	1.4	7.3	3.2	lbs/ac
Mn	9.7	17.4	13.3	lbs/ac
Zn	4.6	16.3	9.4	lbs/ac
pH	4.9	6.0	5.3	none
bpH	6.7	7.5	7.1	none
CEC	6.6	12.1	9.8	meq/100g
%Mg	5.0	15.0	10.1	%
%Ca	40.0	64.0	49.0	%
AC	1.8	5.4	3.7	meq/100g
Pl	93.0	193.0	122.0	none
Kl	48.0	104.0	66.2	none
Mgl	5.0	15.0	10.1	none
Cal	40.0	64.0	49.0	none
Sl	39.0	61.0	52.0	none
Mnl	34.0	61.0	46.9	none
Znl	65.0	230.0	132.4	none
HM	2.1	10.0	6.3	%

Sample Date: 2014-05-27 Soil Lab: Waters NCDA

ID	P (lbs/ac)	K (lbs/ac)	S (lbs/ac)	Cu (lbs/ac)	Mn (lbs/ac)	Zn (lbs/ac)	pH (none)	bpH (none)	CEC (meq/100g)	%Mg (%)	%Ca (%)	AC (meq/100g)	Pl (none)	Kl (none)	Mgl (none)	Cal (none)	Sl (none)	Mnl (none)	Znl (none)	HM (%)
1	412.6	362.3	29.2	5.5	12.5	4.8	5.7	7.5	9.5	12.0	60.0	2.2	193.0	104.0	12.0	60.0	41.0	44.0	67.0	2.2
2	391.2	313.6	27.8	5.8	15.1	5.0	6.0	7.5	9.3	12.0	64.0	1.8	183.0	90.0	12.0	64.0	39.0	53.0	70.0	2.1
3	312.1	285.7	35.6	7.3	13.4	5.5	5.7	7.5	10.5	15.0	60.0	2.2	146.0	82.0	15.0	60.0	50.0	47.0	77.0	4.0
4	342.1	184.7	31.4	5.9	13.1	6.0	5.8	7.5	9.1	14.0	59.0	2.1	160.0	53.0	14.0	59.0	44.0	46.0	84.0	3.4
5	269.4	250.8	40.6	4.3	14.8	6.9	4.9	7.0	9.4	5.0	50.0	3.8	126.0	72.0	5.0	50.0	57.0	52.0	97.0	7.0
6	271.5	285.7	41.4	4.4	16.5	7.5	5.0	7.0	9.3	6.0	47.0	4.0	127.0	82.0	6.0	47.0	58.0	58.0	106.0	7.0
7	205.2	243.9	39.9	3.5	17.4	12.4	4.9	6.8	10.8	10.0	45.0	4.6	96.0	70.0	10.0	45.0	56.0	61.0	175.0	8.9
8	213.8	285.7	38.5	3.6	15.4	11.0	4.9	6.8	10.5	9.0	41.0	4.8	100.0	82.0	9.0	41.0	54.0	54.0	155.0	8.9
9	245.9	202.1	34.9	2.7	15.1	13.7	5.1	6.8	11.0	8.0	47.0	4.6	115.0	58.0	8.0	47.0	49.0	53.0	193.0	8.2
10	233.0	233.4	42.1	2.5	14.2	14.3	4.9	6.7	10.8	8.0	41.0	5.2	109.0	67.0	8.0	41.0	59.0	50.0	202.0	8.5
11	312.1	195.1	30.6	2.3	11.1	12.1	5.1	7.0	9.1	9.0	43.0	4.1	146.0	56.0	9.0	43.0	43.0	39.0	170.0	6.8
12	211.7	209.0	37.1	1.8	12.5	15.5	4.9	6.7	10.9	8.0	41.0	5.2	99.0	60.0	8.0	41.0	52.0	44.0	218.0	10.0
13	241.6	181.2	37.1	1.6	14.5	16.3	5.2	6.9	12.1	11.0	51.0	4.3	113.0	52.0	11.0	51.0	52.0	51.0	230.0	8.0
14	237.3	195.1	37.8	1.5	13.4	11.8	5.0	6.8	10.7	9.0	43.0	4.9	111.0	56.0	9.0	43.0	53.0	47.0	166.0	8.9
15	198.8	181.2	30.6	1.4	14.0	13.9	4.9	6.7	11.9	12.0	40.0	5.4	93.0	52.0	12.0	40.0	43.0	49.0	196.0	9.6
16	220.2	216.0	38.5	1.8	14.2	9.9	5.5	7.2	10.8	12.0	55.0	3.3	103.0	62.0	12.0	55.0	54.0	50.0	140.0	6.0
17	203.1	167.2	41.4	1.8	10.0	5.7	5.5	7.3	8.8	10.0	55.0	2.8	95.0	48.0	10.0	55.0	58.0	35.0	80.0	4.6
18	215.9	181.2	42.8	1.8	9.7	5.9	5.6	7.3	8.4	11.0	53.0	2.8	101.0	52.0	11.0	53.0	60.0	34.0	83.0	3.9
19	256.6	198.6	43.5	2.1	10.0	5.3	5.1	7.2	6.6	9.0	40.0	3.1	120.0	57.0	9.0	40.0	61.0	35.0	75.0	4.1
20	222.3	240.4	40.6	2.0	10.0	4.6	5.5	7.3	7.0	12.0	46.0	2.6	104.0	69.0	12.0	46.0	57.0	35.0	65.0	3.6

Pamlico County FSA
Farm 2421 Tract 1817E

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

Field	Acres	Crop	HEL	CRP
79	6.34		N	
80	8.91		N	
81	7.85		N	
82	8.51		N	
83	7.49		N	
84	3.44		N	
85	5.25		N	
86	6.41		N	
87	8.68		N	
88	9.52		N	
89	10.10		N	
90	11.59		N	

Total Cropland Acres
94.1

Pamlico County FSA
Farm 2797 Tract 598

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

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Fld	Acres	p	HEL	CRP
1	6.76		N	
2	5.44		N	
3	6.64		N	
4	8.36		N	
5	10.00		N	
6	11.35		N	
7	13.18		N	
8	12.28		N	
9	14.17		N	
10	12.68		N	
11	12.07		N	

Tax Map G03 - 28

Total Cropland Acres
112.9

Pamlico County FSA
Farm 2798 Tract 1816

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

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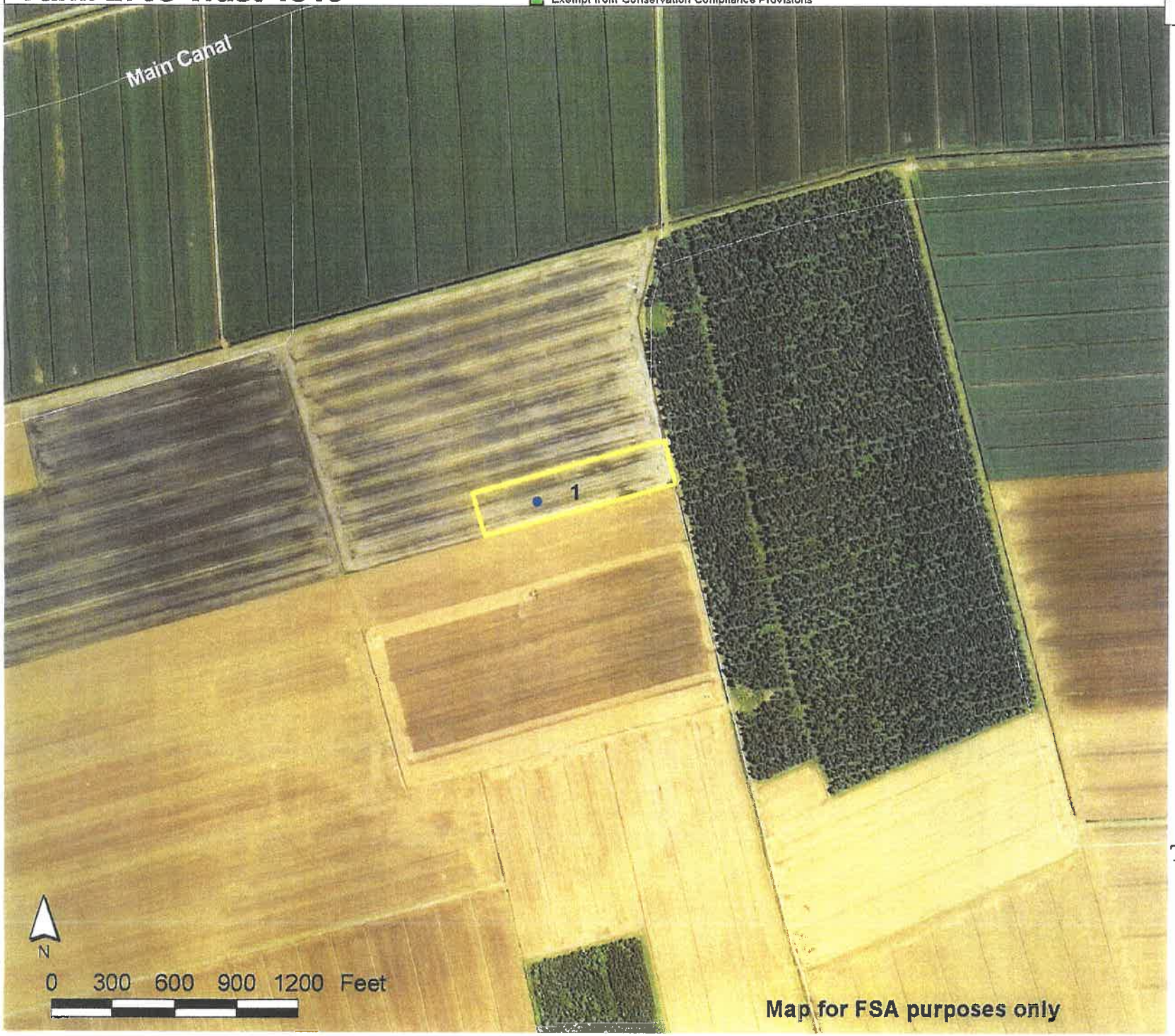
Field	Acres	Crop	HEL	CRP
1	4.86		N	



Tax Map F03 – 57

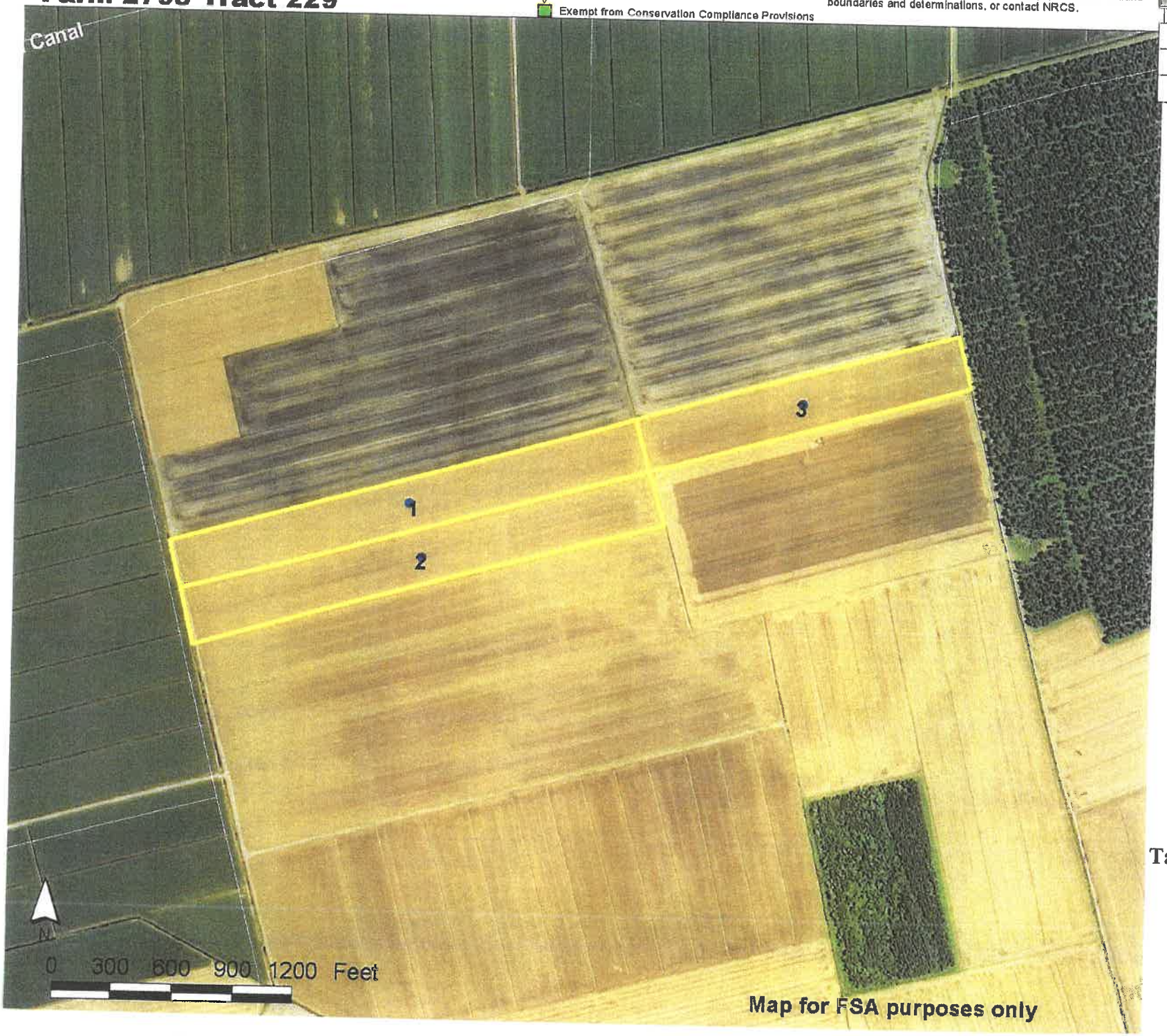
Total Cropland Acres
4.9

Pamlico County FSA
Farm 2798 Tract 229

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland Identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

Field	Acres	Crop	HEL	CRP
1	14.13		N	
2	15.05		N	
3	10.43		N	



Map for FSA purposes only

Tax Map F03 – 57

Total Cropland Acres
39.6

Pamlico County FSA
Farm 2798 Tract 255

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

Field	Acres	Crop	HEL	CRP
1	15.62		N	
2	17.15		N	
3	17.08		N	

Tax Map F03 – 59

Total Cropland Acres
49.8

Pamlico County FSA
Farm 2798 Tract 243

Wetland Determination Ident'
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

Fld	Acres	p	HEL	CRP
1	5.80		N	
2	5.73		N	
3	4.41		N	
4	4.35		N	
5	4.23		N	
6	4.23		N	
7	4.39		N	
8	4.16		N	
9	4.40		N	
10	4.31		N	

Tax Map F03 – 63
Tax Map F03 – 64

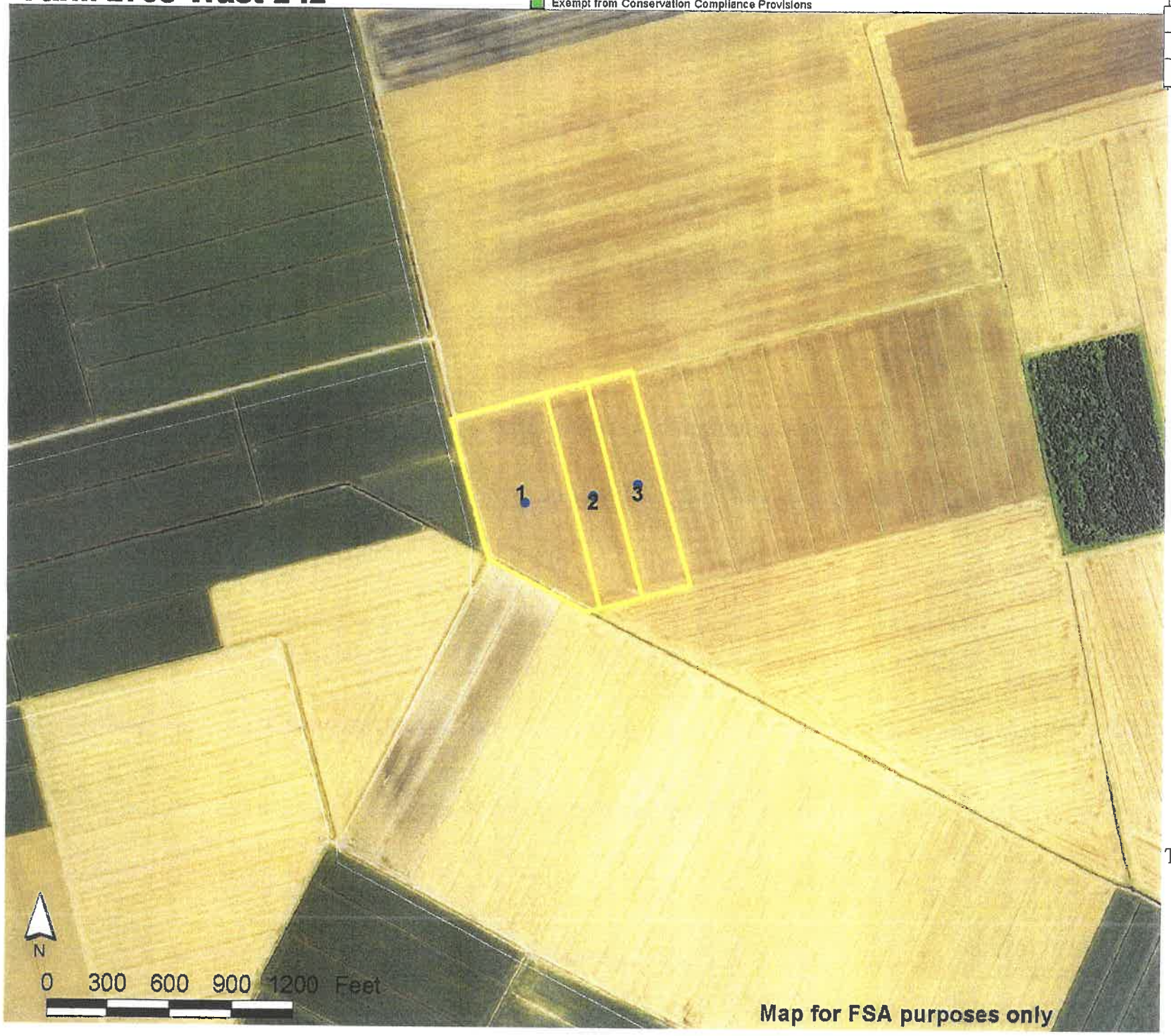
Total Cropland Acres
46.0

Pamlico County FSA
Farm 2798 Tract 242

Wetland Determination Ident
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

Field	Acres	p	HEL	CRP
1	10.02		N	
2	5.24		N	
3	5.79		N	



Tax Map F03 – 61

Total Cropland Acres
24.1

Pamlico County FSA
Farm 2798 Tract 214

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

Field	Acres	[illegible]	HEL	CRP
1	10.13		N	

Tax Map F03 - 54

Total Cropland Acres
10.1

Pamlico County FSA
Farm 2797 Tract 299

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

Field	Acres	Crop	HEL	CRP
1	7.70		N	
2	7.13		N	
3	4.43		N	

704 - 34

Total Cropland Acres
19.3

Pamlico County FSA
Farm 2797 Tract 271

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

Field	Acres	Crop	HEL	CRP
1	7.09		N	
2	7.31		N	
3	7.93		N	
4	7.66		N	
5	8.08		N	
6	5.34		N	
7	3.92		N	
8	4.64		N	
9	4.77		N	

FOJ - 106

Total Cropland Acres
56.7

Pamlico County FSA
Farm 2832 Tract 1806

2694

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

Fld	Acres	Crop	HEL	CRP
1	8.92		N	
2	0.99		N	
3	2.85		N	
4	1.95		N	
5	2.16		N	
6	4.23		N	
7	6.10		N	

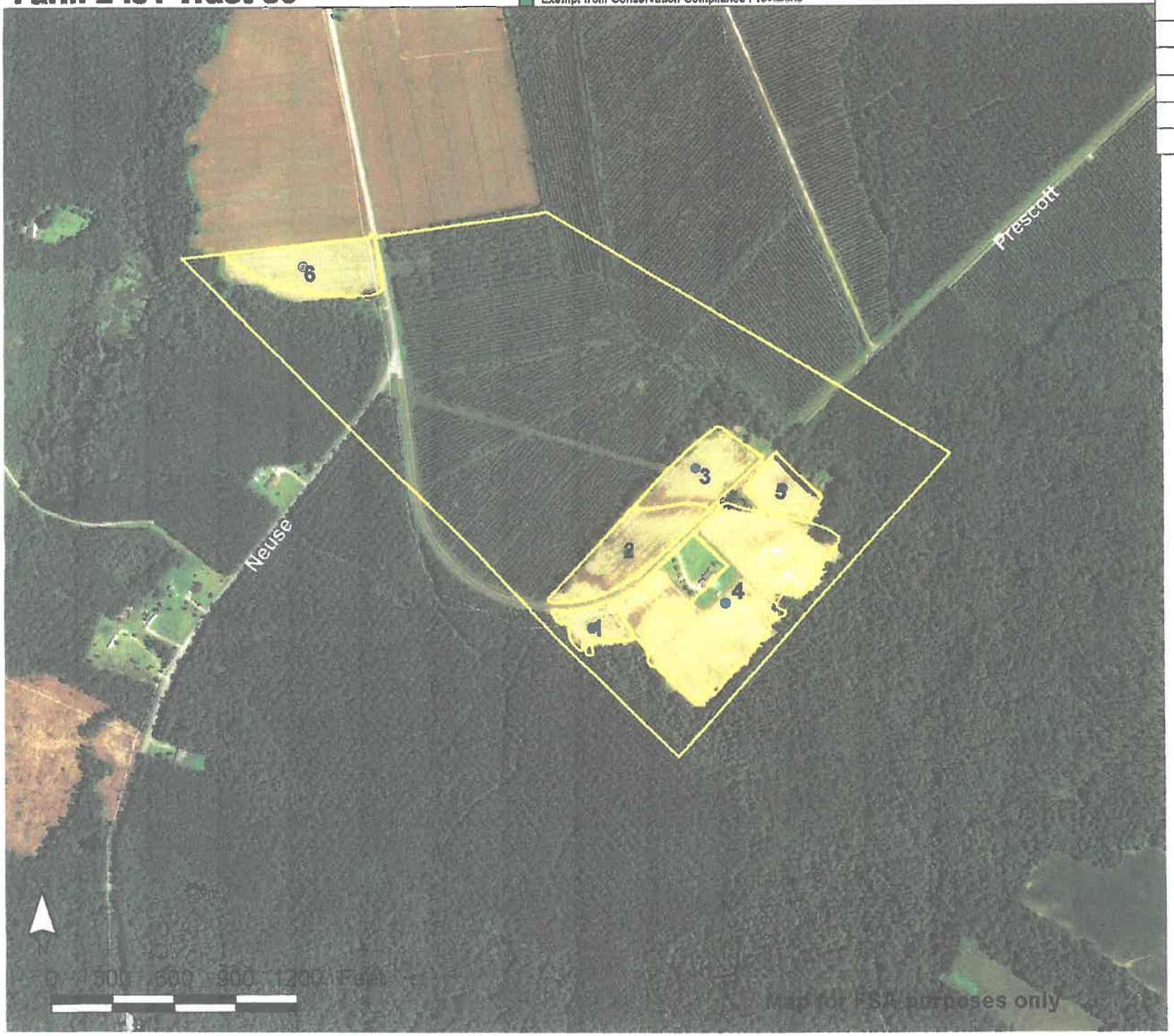
2 6 ac
7 8 beds

Total Cropland Acres
27.2

Pamlico County FSA
Farm 2481 Tract 86

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.



Fld	Acres	Crop	HEL	CRP
1	1.28		N	
2	3.59		N	
3	2.91		N	
4	10.87		N	
5	1.63		N	
6	3.47		N	

Brick House

24 acres
6 woods

Total Cropland Acres
23.8

Pamlico County FSA
Farm 2833 Tract 87

2694

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

Fld	Acres	Crop	HEL	CRP
1	3.69		N	
2	1.76		N	
3	2.41		N	
4	1.68		N	
5	1.48		N	
6	1.30		N	
7	1.07		N	
8	2.51		N	
~~9~~	~~0.81~~		~~N~~	

9 fields
16.4 Tac

Total Cropland Acres
16.7

Pamlico County FSA 2694

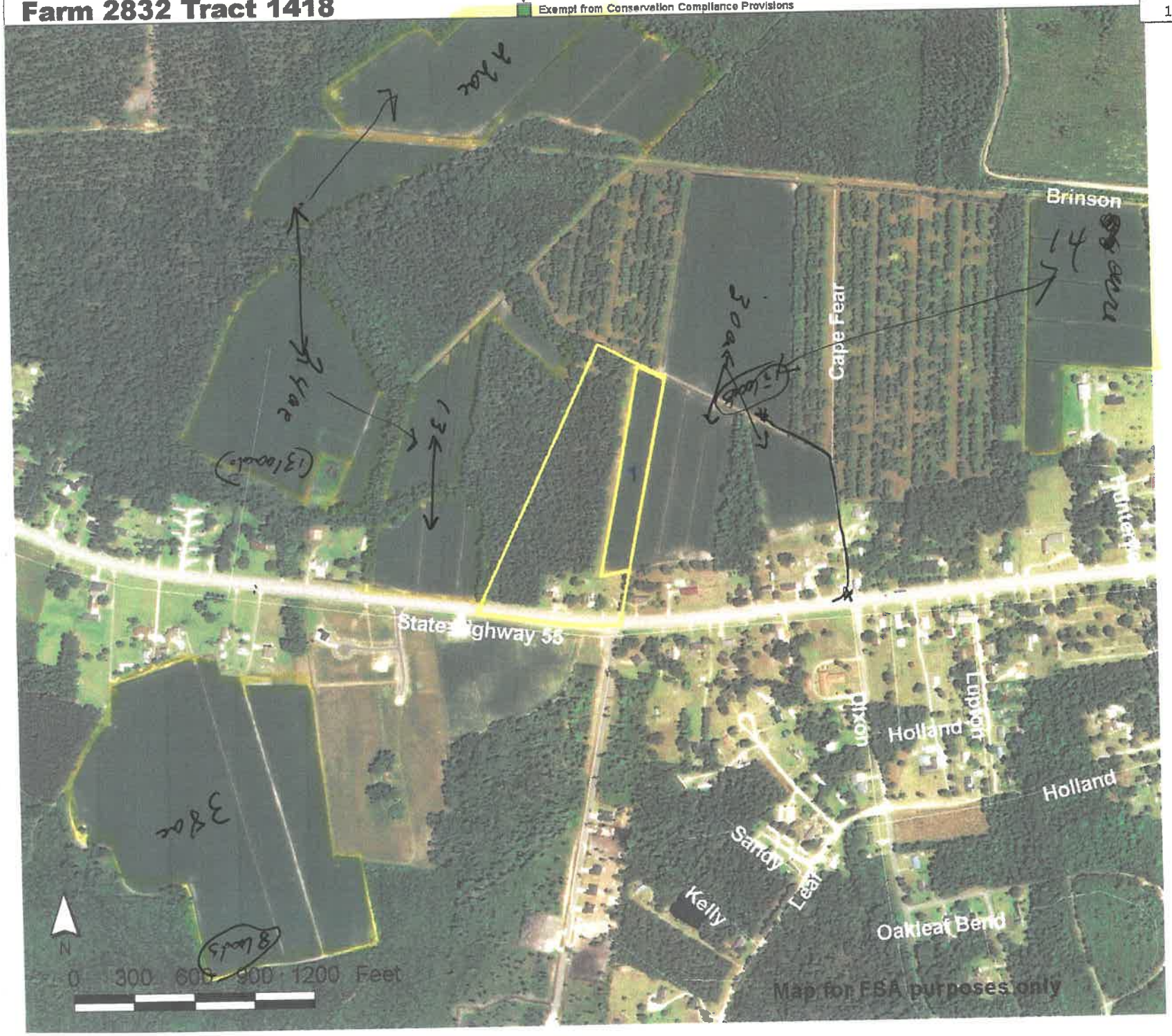
Farm 2832 Tract 1418

Wetland Determination Identifiers

- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

Fld	Acres	Crop	HEL	CRP
1	3.23		N	



Dmc Rd

3 8acres 8 loads

12ac
24
22
} 13 loads

1 52 Tons
2 36 Tons
1 20 Tons
1 76 Tons

Total Cropland Acres
3.2

Pamlico County FSA 2674

Farm 2832 Tract 345

Wetland Determination Identifiers

- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland boundaries do not represent the exact, precise or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

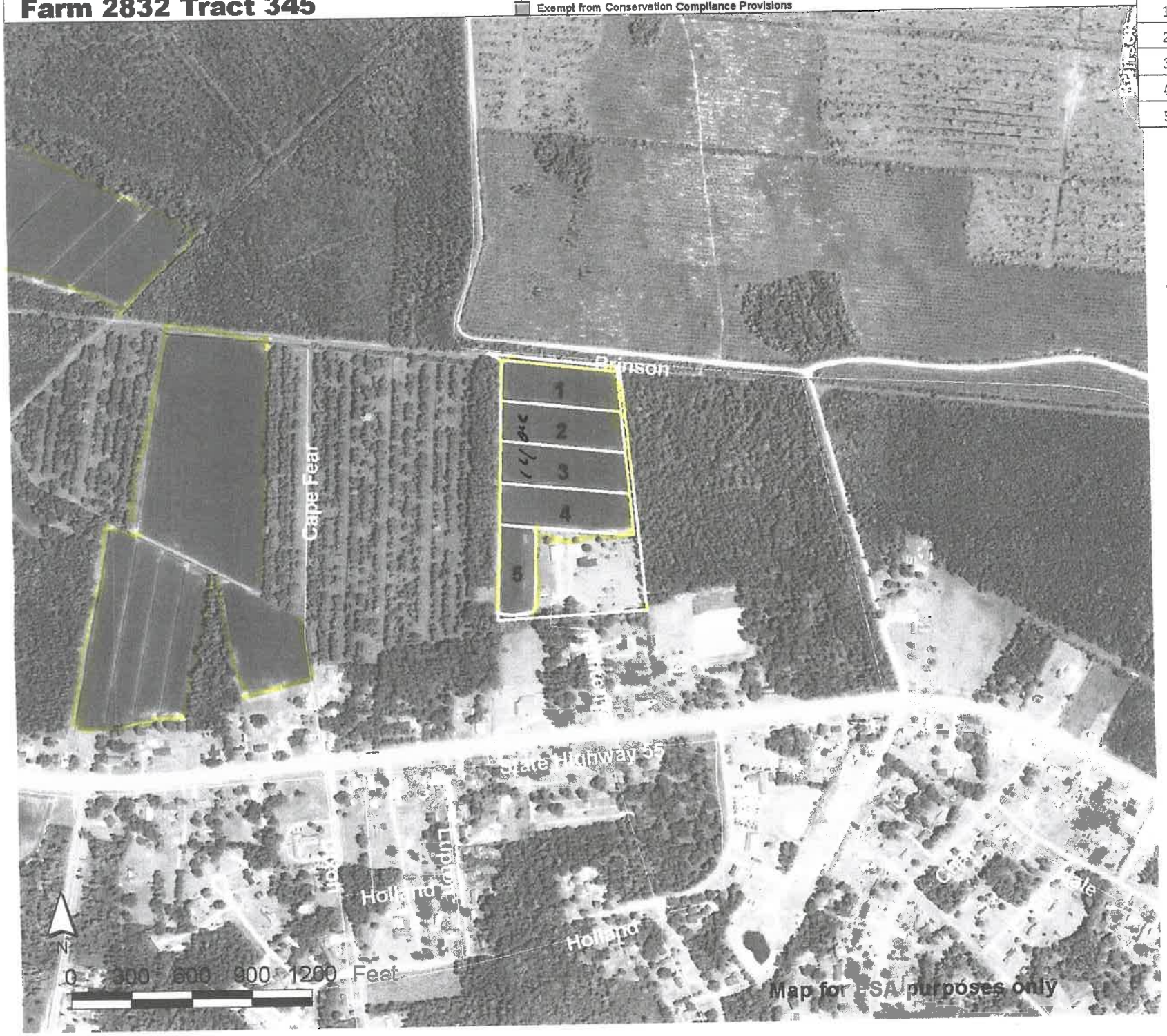
Fld	Acres	Crop	HEL	CRP
1	2.72		N	
2	2.81		N	
3	3.00		N	
4	3.09		N	
5	1.80		N	

Behind House

14ac

30ac

13ac



Total Cropland Acres
13.4

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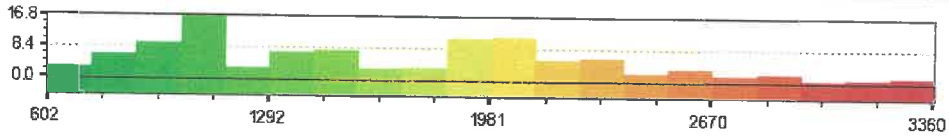
THE NEXT LEVEL OF AGRICULTURAL SOLUTIONS

Fertility Analysis

Grower: B G Potter **Farm: Reelsboro** **Field(s): Reelsboro 16-18,Reelsboro 12-15, 22-24**

Lime - Fertilizer Application (lbs/ac)



Lab: Waters NCDA Custom Eq: NCDA Recs Commodity: Small Grain Sample Dates: 2013-11-23 - 2013-11-22

Constraints:

Target pH: 6.0 none

Max Rate: 4000 lbs/ac Multiplier: N/A
Min Rate: 600 lbs/ac Subtract: N/A
Switch Rate: 600 lbs/ac

Minimum Application Rate:	602.3 lbs/ac	Total Product:	45669.0 lbs
Maximum Application Rate:	3359.5 lbs/ac	Total Product Bulk:	22.8345 ton
Average Application Rate:	1601.6 lbs/ac	Product Cost / Bulk:	$0.0/ton
Application Area:	28.5 ac	Total Product Price:	$0.0
Average Field Rate:	1400.5 lbs/ac	Application Cost / Area:	$0.0/ac
Total Area:	32.6 ac	Total Application Cost:	$0.0
		Total Cost:	$0.0

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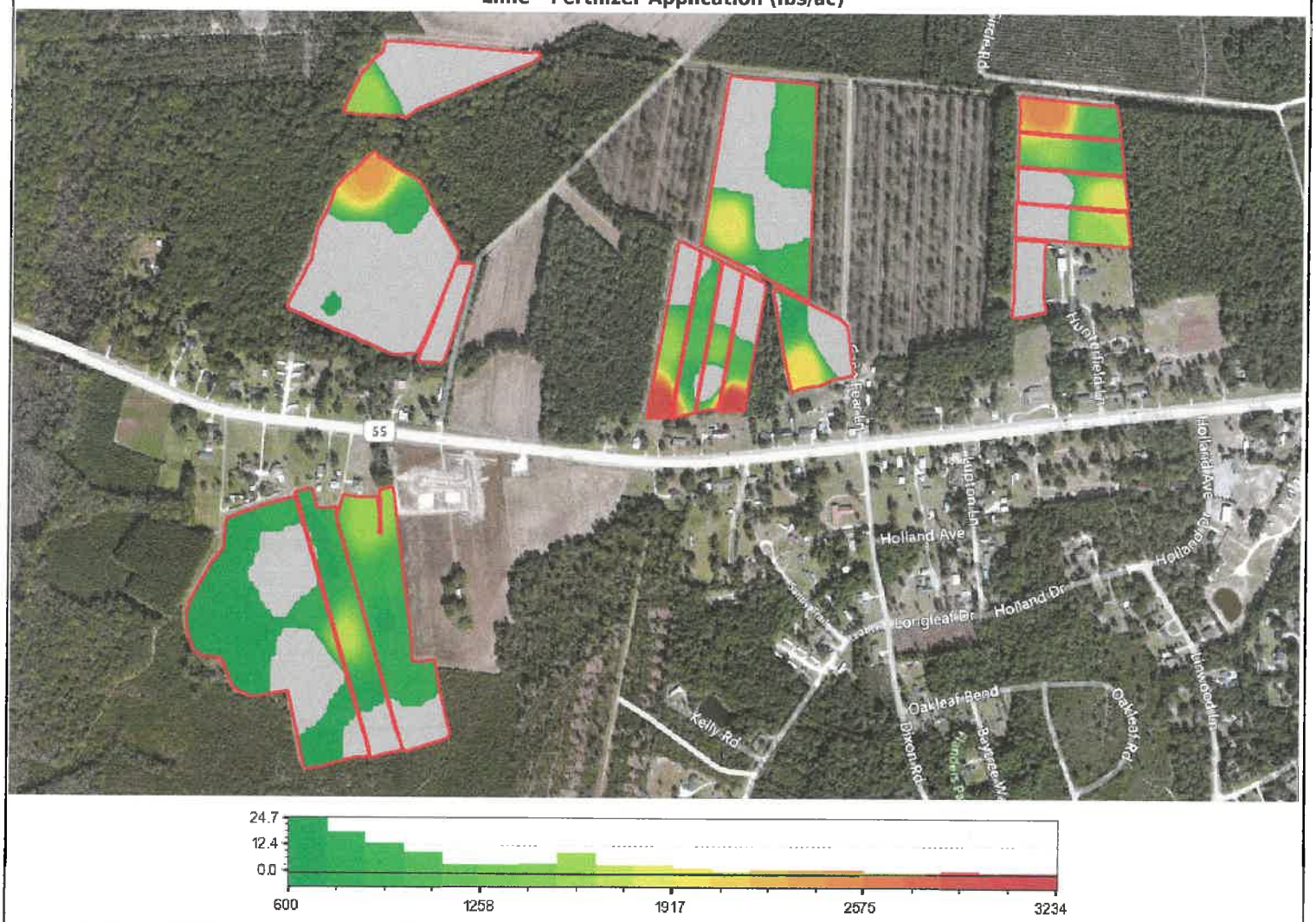
THE NEXT LEVEL OF AGRICULTURAL SOLUTIONS

Fertility Analysis

Grower: B G Potter **Farm: Reelsboro**

Field(s): Reelsboro 8-11,Reelsboro 26-27,Reelsboro 25,Reelsboro 19-21,Reelsboro 1-5,Reelsboro 6-7

Lime - Fertilizer Application (lbs/ac)



Lab: Waters NCDA | Custom Eq: NCDA Recs | Commodity: Small Grain | Sample Date: 2013-11-24

Constraints:

Target pH: 6.0 none

Max Rate:	4000 lbs/ac	Multiplier:	N/A
Min Rate:	600 lbs/ac	Subtract:	N/A
Switch Rate:	600 lbs/ac		

Minimum Application Rate:	600.0 lbs/ac	Total Product:	63313.4 lbs
Maximum Application Rate:	3233.6 lbs/ac	Total Product Bulk:	31.6567 ton
Average Application Rate:	1122.3 lbs/ac	Product Cost / Bulk:	$0.0/ton
Application Area:	56.4 ac	Total Product Price:	$0.0
Average Field Rate:	613.7 lbs/ac	Application Cost / Area:	$0.0/ac
Total Area:	103.2 ac	Total Application Cost:	$0.0
		Total Cost:	$0.0

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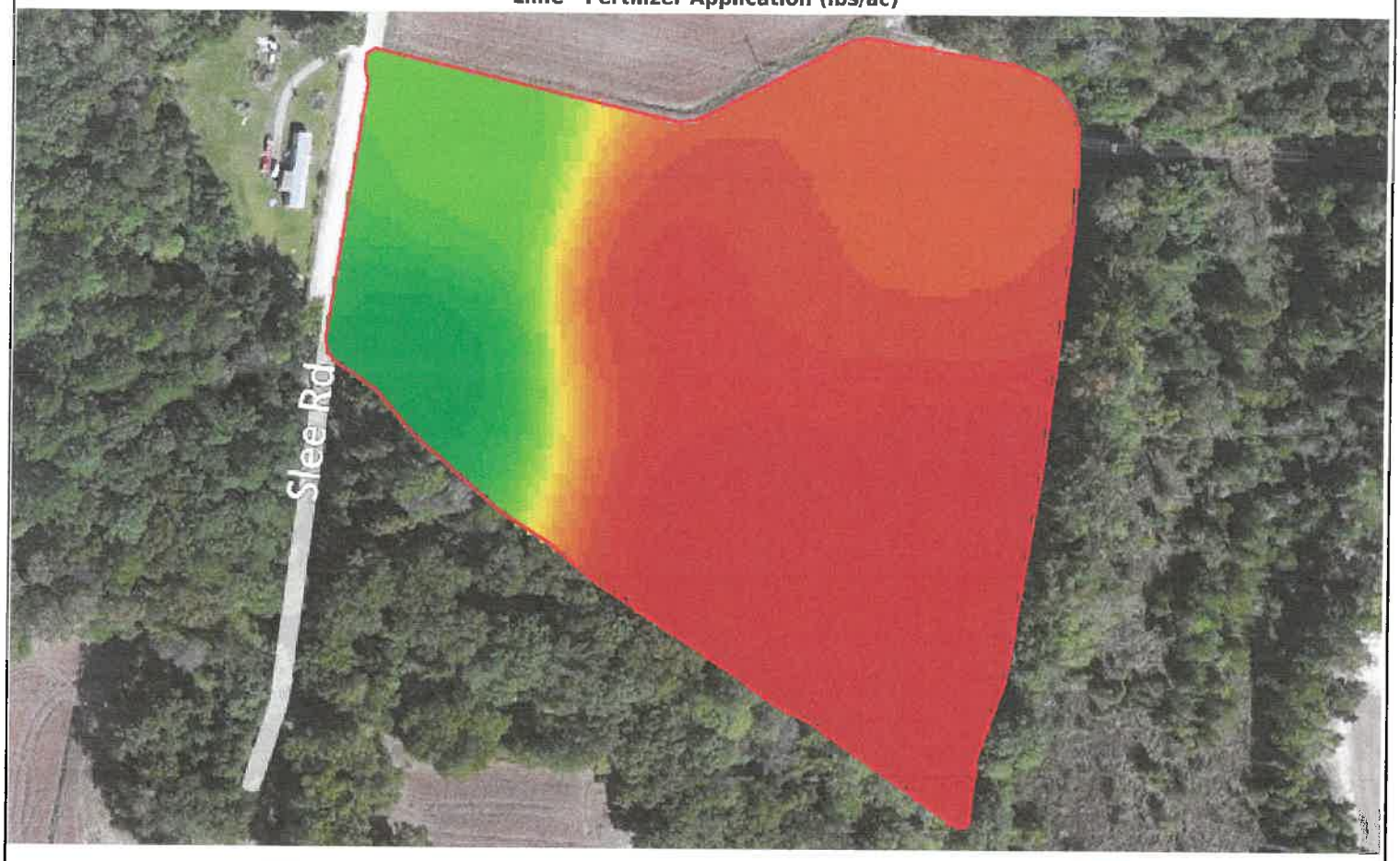
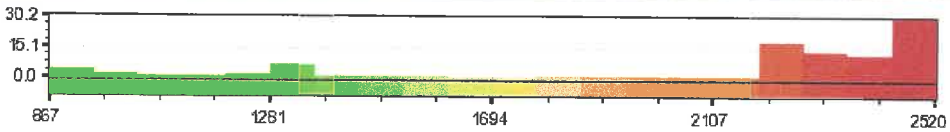
THE NEXT LEVEL OF AGRICULTURAL SOLUTIONS

Fertility Analysis

Grower: B G Potter **Farm: South Lee** **Field(s): South Lee 28**

Lime - Fertilizer Application (lbs/ac)





Lab: Waters NCDA Custom Eq: NCDA Recs Commodity: Small Grain Sample Date: 2013-11-24

Constraints:

Target pH: 6.0 none

Max Rate:	4000 lbs/ac	Multiplier:	N/A
Min Rate:	600 lbs/ac	Subtract:	N/A
Switch Rate:	600 lbs/ac		

Minimum Application Rate:	867.5 lbs/ac	Total Product:	19979.4 lbs
Maximum Application Rate:	2520.0 lbs/ac	Total Product Bulk:	9.9897 ton
Average Application Rate:	2116.9 lbs/ac	Product Cost / Bulk:	$0.0/ton
Application Area:	9.4 ac	Total Product Price:	$0.0
Average Field Rate:	2116.9 lbs/ac	Application Cost / Area:	$0.0/ac
Total Area:	9.4 ac	Total Application Cost:	$0.0
		Total Cost:	$0.0

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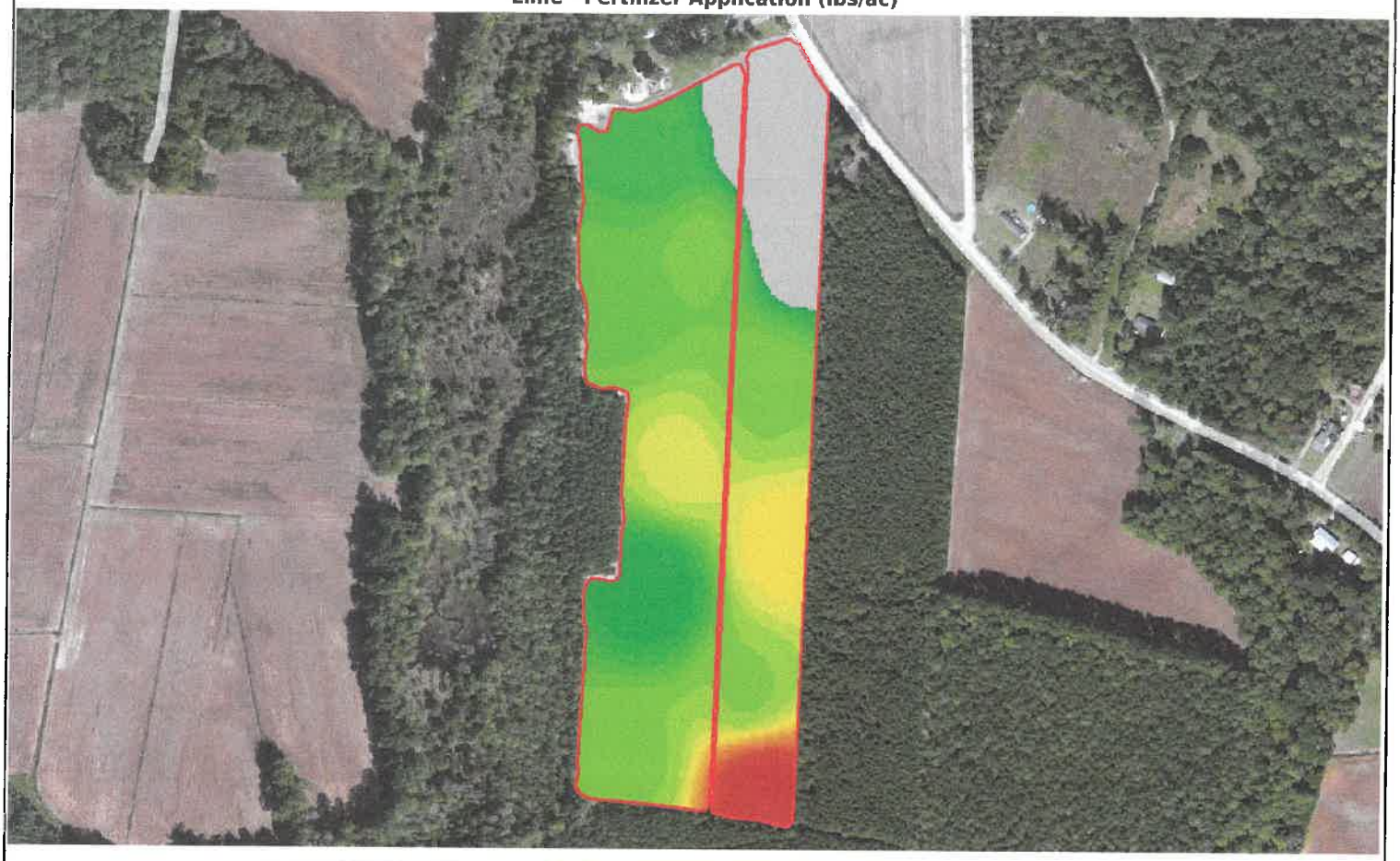
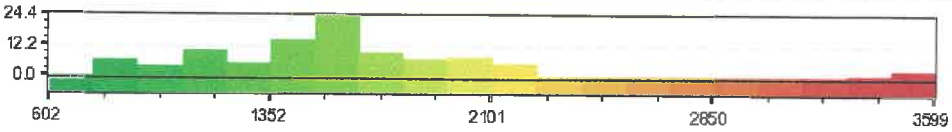
THE NEXT LEVEL OF AGRICULTURAL SOLUTIONS

Fertility Analysis

Grower: B G Potter **Farm: AC** **Field(s): AC 29-30**

Lime - Fertilizer Application (lbs/ac)





Lab: Waters NCDA | Custom Eq: NCDA Recs | Commodity: Small Grain | Sample Date: 2013-11-24

Constraints:

Target pH: 6.0 none

Max Rate:	4000 lbs/ac	Multiplier:	N/A
Min Rate:	600 lbs/ac	Subtract:	N/A
Switch Rate:	600 lbs/ac		

Minimum Application Rate:	602.5 lbs/ac	Total Product:	35066.8 lbs
Maximum Application Rate:	3599.2 lbs/ac	Total Product Bulk:	17.5334 ton
Average Application Rate:	1597.6 lbs/ac	Product Cost / Bulk:	$0.0/ton
Application Area:	21.9 ac	Total Product Price:	$0.0
Average Field Rate:	1370.3 lbs/ac	Application Cost / Area:	$0.0/ac
Total Area:	25.6 ac	Total Application Cost:	$0.0
		Total Cost:	$0.0

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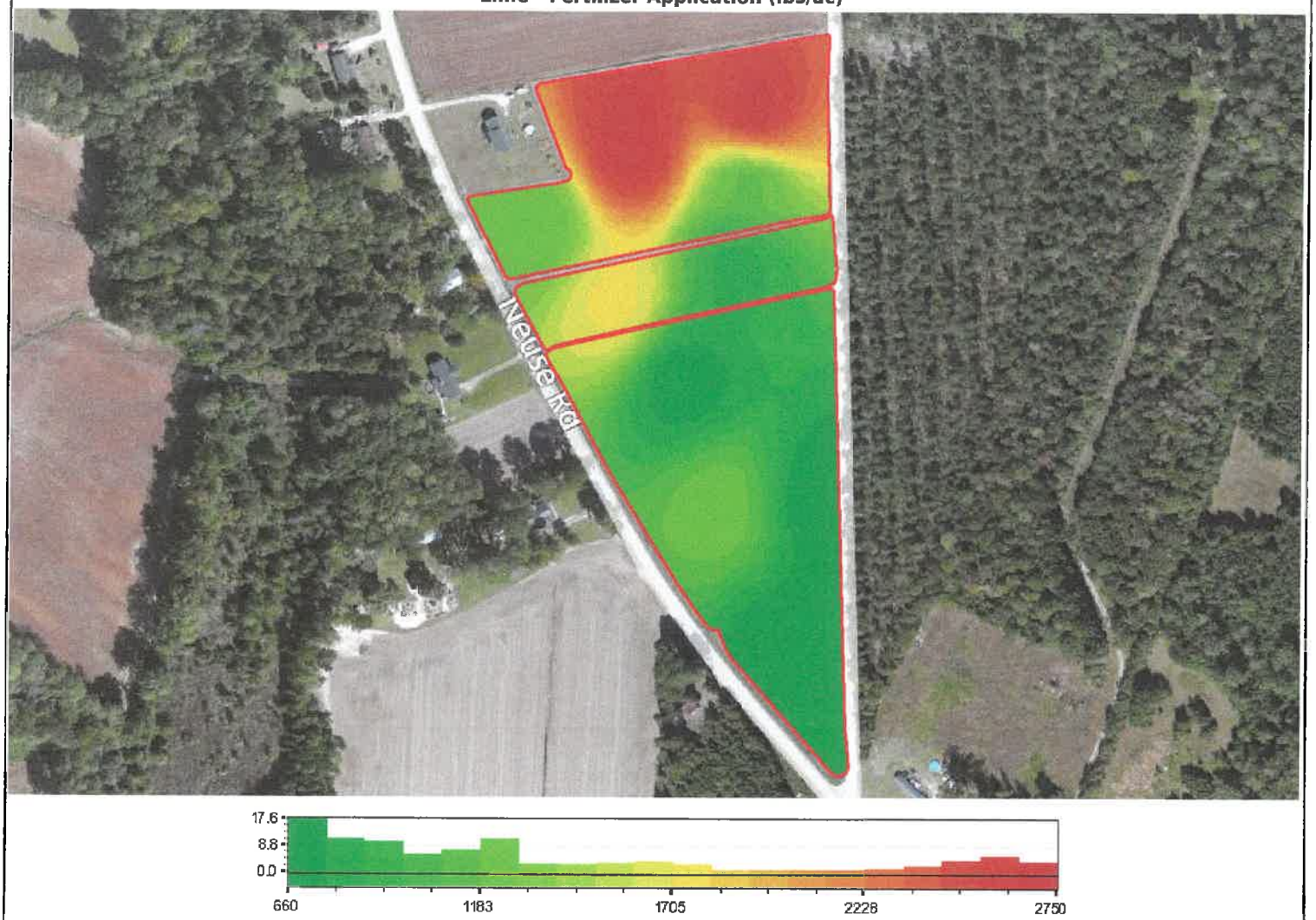
THE NEXT LEVEL OF AGRICULTURAL SOLUTIONS

Fertility Analysis

Grower: B G Potter **Farm: LS** **Field(s): LS 32-34**

Lime - Fertilizer Application (lbs/ac)



Lab: Waters NCDA | Custom Eq: NCDA Recs | Commodity: Small Grain | Sample Date: 2013-11-24

Constraints:

Target pH: 6.0 none

Max Rate:	4000 lbs/ac	Multiplier:	N/A
Min Rate:	600 lbs/ac	Subtract:	N/A
Switch Rate:	600 lbs/ac		

Minimum Application Rate:	660.0 lbs/ac	Total Product:	19722.4 lbs
Maximum Application Rate:	2750.4 lbs/ac	Total Product Bulk:	9.8612 ton
Average Application Rate:	1337.4 lbs/ac	Product Cost / Bulk:	$0.0/ton
Application Area:	14.7 ac	Total Product Price:	$0.0
Average Field Rate:	1337.4 lbs/ac	Application Cost / Area:	$0.0/ac
Total Area:	14.7 ac	Total Application Cost:	$0.0
		Total Cost:	$0.0

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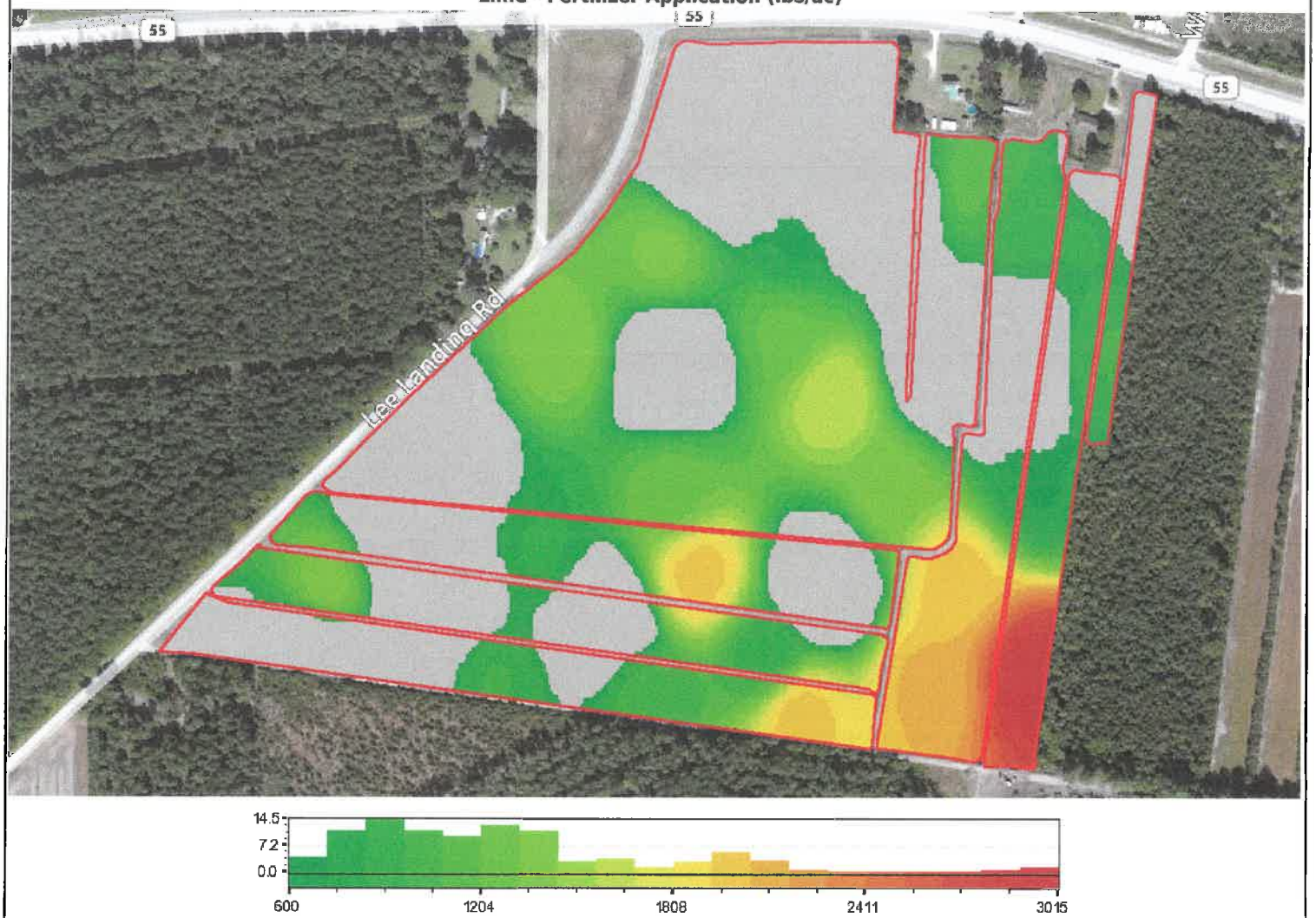
THE NEXT LEVEL OF AGRICULTURAL SOLUTIONS

Fertility Analysis

Grower: B G Potter **Farm: CD** **Field(s): CD 39-41,CD 38,CD 35-37**

Lime - Fertilizer Application (lbs/ac)



Lab: Waters NCDA | Custom Eq: NCDA Recs | Commodity: Small Grain | Sample Date: 2013-11-24

Constraints:

Target pH: 6.0 none

Max Rate:	4000 lbs/ac	Multiplier:	N/A
Min Rate:	600 lbs/ac	Subtract:	N/A
Switch Rate:	600 lbs/ac		

Minimum Application Rate:	600.1 lbs/ac	Total Product:	45352.4 lbs
Maximum Application Rate:	3015.3 lbs/ac	Total Product Bulk:	22.6762 ton
Average Application Rate:	1270.5 lbs/ac	Product Cost / Bulk:	$0.0/ton
Application Area:	35.7 ac	Total Product Price:	$0.0
Average Field Rate:	725.1 lbs/ac	Application Cost / Area:	$0.0/ac
Total Area:	62.5 ac	Total Application Cost:	$0.0
		Total Cost:	$0.0

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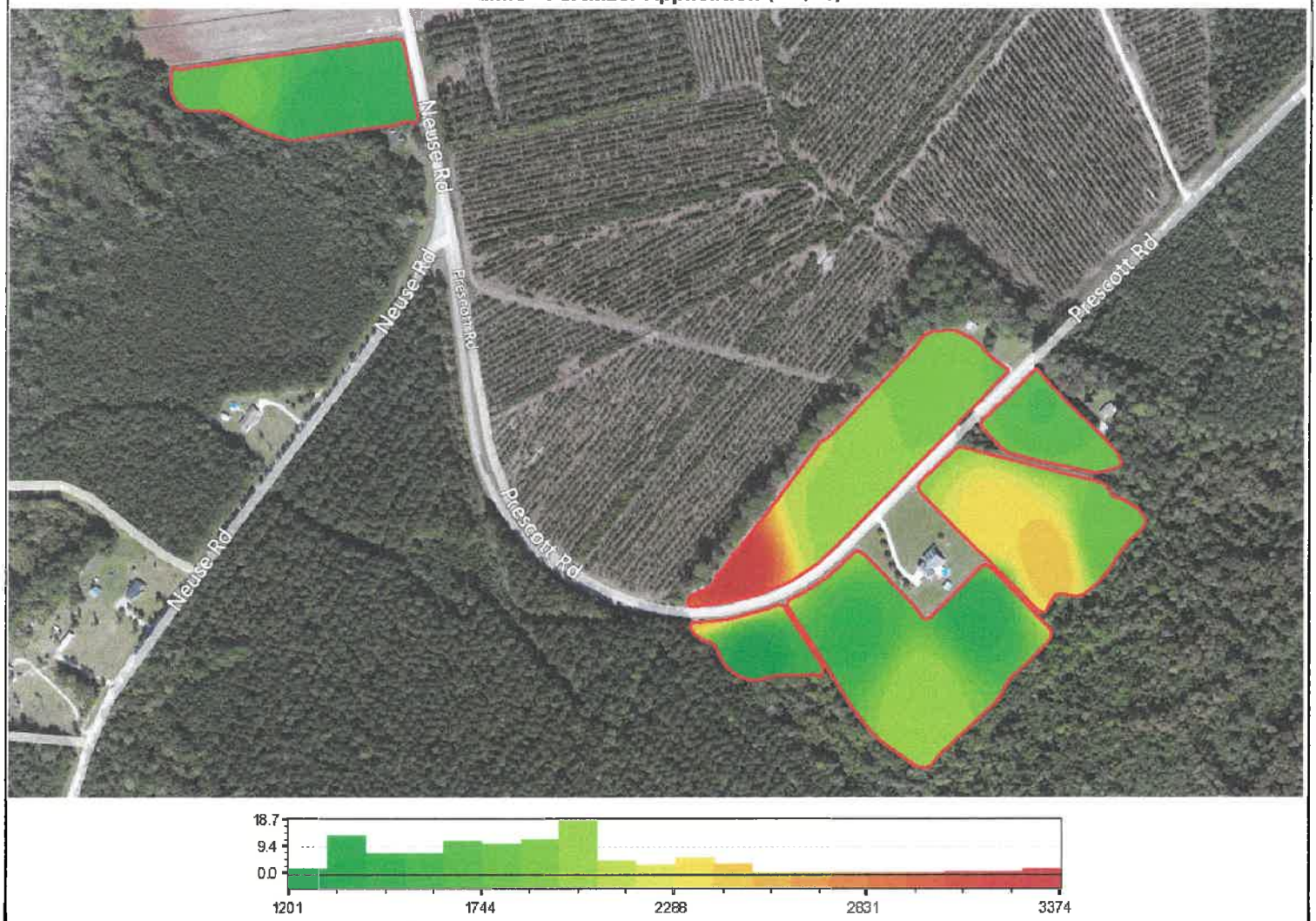
THE NEXT LEVEL OF AGRICULTURAL SOLUTIONS

Fertility Analysis

Grower: B G Potter **Farm: Prescott** **Field(s): Prescott 56-61**

Lime - Fertilizer Application (lbs/ac)



Lab: Waters NCDA | Custom Eq: NCDA Recs | Commodity: Small Grain | Sample Date: 2013-11-24

Constraints:

Target pH: 6.0 none

Max Rate: 4000 lbs/ac Multiplier: N/A
Min Rate: 600 lbs/ac Subtract: N/A
Switch Rate: 600 lbs/ac

Minimum Application Rate:	1201.1 lbs/ac	Total Product:	45457.3 lbs
Maximum Application Rate:	3374.0 lbs/ac	Total Product Bulk:	22.7286 ton
Average Application Rate:	1858.2 lbs/ac	Product Cost / Bulk:	$0.0/ton
Application Area:	24.5 ac	Total Product Price:	$0.0
Average Field Rate:	1858.2 lbs/ac	Application Cost / Area:	$0.0/ac
Total Area:	24.5 ac	Total Application Cost:	$0.0
		Total Cost:	$0.0

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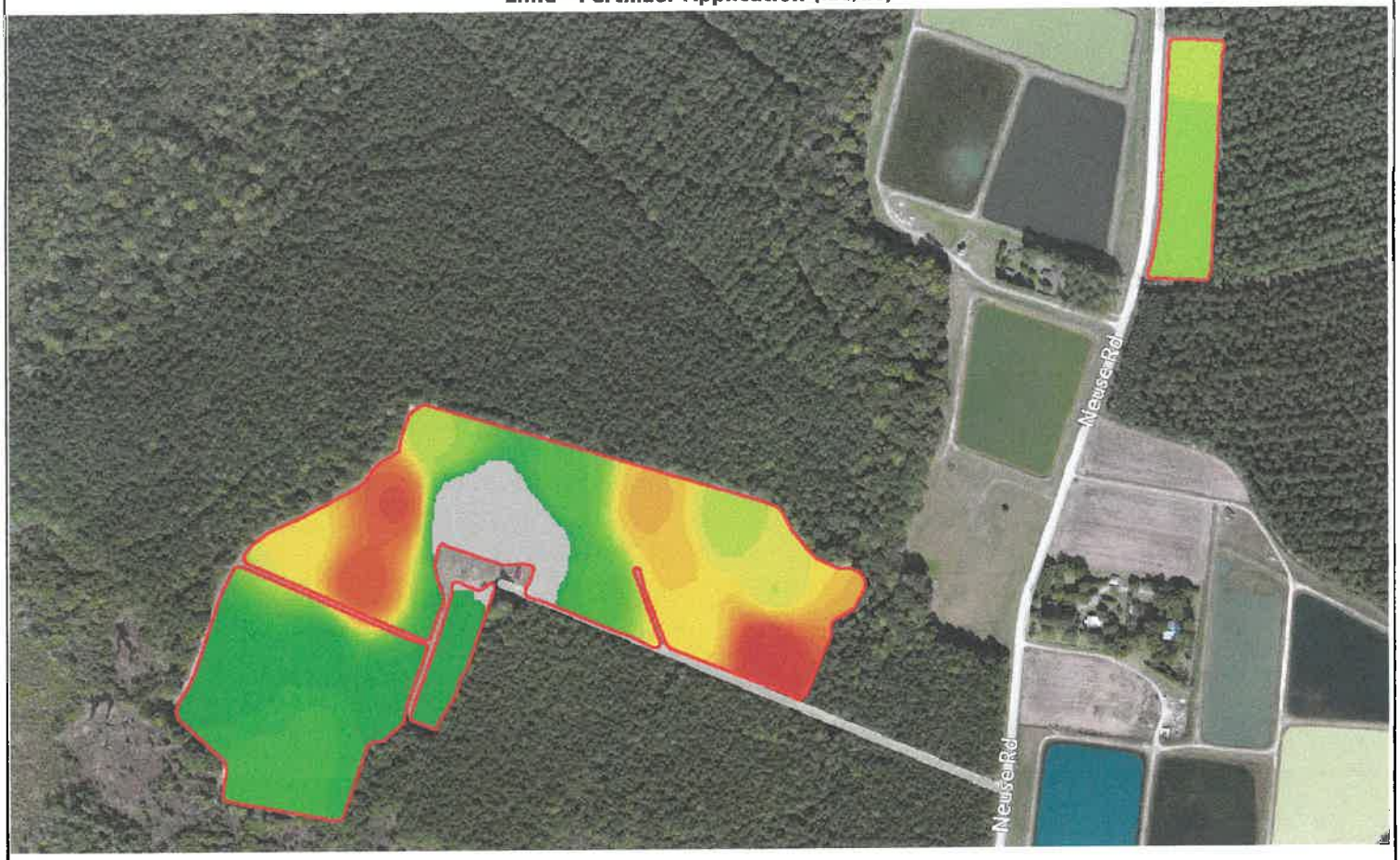
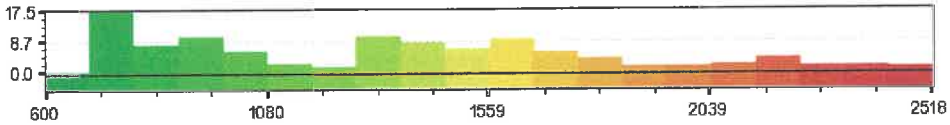
THE NEXT LEVEL OF AGRICULTURAL SOLUTIONS

Fertility Analysis

Grower: B G Potter **Farm: Fish Pond** **Field(s): Fish Pond 83-85,Fish Pond 82**

Lime - Fertilizer Application (lbs/ac)





Lab: Waters NCDA Custom Eq: NCDA Recs Commodity: Small Grain Sample Date: 2013-11-24

Constraints:

Target pH: 6.0 none

Max Rate: 4000 lbs/ac Multiplier: N/A
Min Rate: 600 lbs/ac Subtract: N/A
Switch Rate: 600 lbs/ac

Minimum Application Rate:	600.2 lbs/ac	Total Product:	38281.9 lbs
Maximum Application Rate:	2518.3 lbs/ac	Total Product Bulk:	19.141 ton
Average Application Rate:	1293.8 lbs/ac	Product Cost / Bulk:	$0.0/ton
Application Area:	29.6 ac	Total Product Price:	$0.0
Average Field Rate:	1189.8 lbs/ac	Application Cost / Area:	$0.0/ac
Total Area:	32.2 ac	Total Application Cost:	$0.0
		Total Cost:	$0.0