NCDA&CS Agronomic Division Phone: (919) 733-2655 Report No. FY19-SL023895 Website: www.ncagr.gov/agronomi/



Internal

Soil Report

Links to Helpful Information

Mehlich-3 Extraction

Client: Horticultural Crops Research Station /

Clinton

2450 Faison Hwy Clinton, NC 28328

Sampled County : Sampson 2: 403047

Client ID:

Advisor ID:

Sampled	: 11/01/2	2018 R	eceived: ()2/07/20 ⁻	19 Comp	leted: 02	/13/2019	Farm:	Resstatio	n										
Sample	ID : G0	2	Reco	mmend	ations:	L	.ime					Nutri	ents (lb/ac	re)					Mor	·e
			Crop)		(ton	s/acre)	N	P2	O 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	ion
Lime Hi	story:		1 - V	egetable	s, other		0.0	80-10) 10	0	50	0	0	0	0	0	0		Note: 6	
			2 - C	orn, graiı	n		0.0	120 - 16	60 C)	0	0	0	0	0	0	0		Note: 3	
Test Re	sults [ur	nits - W/V	/ in g/cm³	; CEC an	nd Na in m	eq/100 c	m ³ ; NO3-	N in mg/	dm ³]:				Soil Class	: Mine	ral					
НМ%	W/V	CEC	BS%	Ac	рН	P-I	K-I	Ca%	Mg%	S-I	Mn-l	Mn-Al1	Mn-Al2	Zn-l	Zn-Al	Cu-l	Na	ESP	SS-I	NO ₃ -N
0.22	1.35	3.0	76	0.7	5.8	112	85	44	17	26	93	66	73	74	74	65	0.1	3		
Sample	ID: G0	3	Reco	mmend	ations:	L	.ime					Nutri	ents (lb/ac	re)					Moi	·e
			Crop)		(ton	s/acre)	N	P2	O ₅	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	ion
Lime Hi	Lime History:			egetable	s, other		0.3	80-10) ()	80	0	0	0	0	0	0		Note: 6	
				orn, graiı	n		0.0	120 - 16	30 C)	20	0	0	0	0	0	0		Note: 3	
Test Re	sults [ur	nits - W/V	/ in g/cm³	; CEC an	nd Na in m	eq/100 c	m³; NO₃-	N in mg/	dm³]:				Soil Class	: Mine	ral					
НМ%	W/V	CEC	BS%	Ac	рН	P-I	K-I	Ca%	Mg%	S-I	Mn-l	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO ₃ -N
0.36	1.33	3.3	74	0.9	5.7	218	65	50	14	28	117	80	87	134	134	94	0.1	3		
Sample	ID: G0	4	Reco	mmend	ations:	L	.ime					Nutri	ents (lb/ac	re)					Moi	·е
			Crop)		(ton	s/acre)	N	P2	O5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	ion
Lime His	story:		1 - V	egetable	s, other		0.0	80-100) 0)	150	0	25	0	0	0	0		Note: 6	
0.30 ton	s/acre; 3	3/2018	2 - C	antaloup	e/Melons		0.0	60-80	C)	150	0	25	0	0	0	0.0		Note: 6	
Test Re	est Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³;								dm³]:				Soil Class	: Mine	ral					
нм%	W/V	CEC	BS%	Ac	рН	P-I	K-I	Ca%	Mg%	S-I	Mn-l	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-l	Na	ESP	SS-I	NO ₃ -N
0.18	1.45	2.0	76	0.5	6.0	168	34	49	19	15	66	49	49	110	110	42	0.1	5		



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.

Advisor:

NCDA&	NCDA&CS Agronomic Division Phone: (919) 733-2655								site: www	w.ncag	r.gov/agr	onomi/				R	Report No). F	Y19-SL0	23895
																			Page :	2 of 8
Sample	ID: G0	5	Reco	mmend	ations:	L	ime					Nutri	ents (lb/ac	re)					Moi	re
•			Crop)		(ton	s/acre)	N	P20	O ₅	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	tion
Lime His	storv:			egetable	s. other	•	0.0	80-10			90	0	25	0	0	0	0		Note: 6	
				orn, graiı	•		0.0	120 - 1	60 C)	30	0	25	0	0	0	0		Note: 3	
Test Res	sults [ur	nits - W/V	/ in g/cm³	; CEC an	ıd Na in n	neq/100 c	m³; NO₃-	N in mg/	dm³]:				Soil Class	s: Mine	eral					
НМ%	W/V	CEC	BS%	Ac	рН	P-I	K-I	Ca%	Mg%	S-I	Mn-l	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-l	Na	ESP	SS-I	NO3-N
0.27	1.46	2.7	73	0.7	5.8	170	60	46	15	19	102	71	78	104	104	50	0.1	4		
Sample	ID: G0	6	Reco	mmend	ations:	L	ime					Nutri	ents (lb/ac	re)					Mo	re
			Crop)		(ton	s/acre)	N	P20	O 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	ion
Lime His	story:		1 - S	witchgras	SS		0.0	120-16	30 0)	90	0	25	0	0	0	0		Note: 12	<u>2</u>
	-		2 - S	witchgras	ss		0.0	120-16	30 C)	90	0	25	0	0	0	0		Note: 12	2
Test Res	sults [ur	nits - W/V	/ in g/cm³	; CEC an	d Na in n	neq/100 c	m³; NO₃-	N in mg/	dm³]:				Soil Class	s: Mine	eral					
НМ%	W/V	CEC	BS%	Ac	рН	P-I	K-I	Ca%	Mg%	S-I	Mn-l	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO3-N
0.13	1.41	1.8	69	0.6	5.6	88	20	44	19	15	27	39	39	40	40	31	0.1	6		
Sample	ID : G0	7	Reco	mmend	ations:	L	ime					Nutri	ents (lb/ac	re)					Moi	re
			Crop)		(ton	s/acre)	N	P20	O 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	tion
Lime His	storv:		1 - S	witchgras	SS		0.0	120-16			100	0	25	0	0	0	0		Note: 12	2
	•		2 - S	witchgra	ss		0.0	120-16	60 C)	100	0	25	0	0	0	0		Note: 12	<u>2</u>
Test Res	sults [ur	nits - W/V	/ in g/cm³	; CEC an	ıd Na in n	neq/100 c	m³; NO₃-	N in mg/	dm³]:				Soil Class	s: Mine	eral					
НМ%	W/V	CEC	BS%	Ac	рН	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
0.18	1.40	1.9	64	0.7	5.4	137	18	44	15	17	32	44	44	75	75	35	0.1	5		
Sample		18	Reco	mmend	ations:	L	ime					Nutri	ents (lb/ac	re)					Moi	re
			Crop)		(ton	s/acre)	N	P20	O ₅	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	tion
Lime His	story:		1 - S	oybean			0.0	0	0)	50	0	25	0	0	0	0		Note: 3	
0.30 tons/acre; 3/2018			2 - V	egetable	s, other		0.0	80-10	0 0)	130	0	25	0	0	0	0		<u>Note: 6</u>	
Test Res	sults [ur	nits - W/V	/ in g/cm³	; CEC an	ıd Na in n	neq/100 c	m ³ ; NO ₃ -	N in mg/	dm³]:				Soil Class	s: Mine	eral					
НМ%	W/V	CEC	BS%	Ac	рН	P-I	K-I	Ca%	Mg%	S-I	Mn-l	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-l	Na	ESP	SS-I	NO3-N
0.22	1.40	2.4	75	0.6	5.8	181	43	50	16	19	90	64	64	204	204	75	0.1	4		
			. •						. •			<u> </u>		_••	_••			•		

NCDA&	CS Agro	nomic D	ivision	PI	hone: (91	9) 733-20	655	Webs	site: ww	w.ncag	gr.gov/agr	onomi/				R	Report No	o. F	Y19-SL0	23895
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Sample	ID: G0	9	Rec	ommend	ations:	I	_ime					Nutri	ents (lb/ac	re)					Moi	·e
			Cro	р		(ton	s/acre)	N	P2	O 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	ion
Lime His	story:		1 - S	Sweetpota	ito		0.4	60-90) ()	50	0	25	0	0	0	0.5	5	Note: 6	
			2-S	Soybean			0.0	0	()	30	0	25	0	0	0	0		Note: 3	
Test Res	sults [uɪ	nits - W/V	/ in g/cm³	; CEC an	ıd Na in m	neq/100 c	:m³; NO₃-	N in mg/	dm³]:				Soil Class	: Mine	eral					
НМ%	W/V	CEC	BS%	Ac	рН	P-I	K-I	Ca%	Mg%	S-I	Mn-l	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-l	Na	ESP	SS-I	NO ₃ -N
0.18	1.44	2.4	68	8.0	5.5	189	55	41	15	17	186	129	122	120	120	56	0.1	4		
Sample	ID : G1	0	Rec	ommend	ations:		_ime					Nutri	ents (lb/ac	re)					Мо	·e
			Cro			(ton	s/acre)	N		O 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	ion
Lime His	story:		1 - V	egetable:	s, other		0.0	80-10	0 0)	190	0	25	0	0	0	0		Note: 6	
0.30 ton	s/acre; 3	3/2018	2-S	Soybean			0.0	0	()	100	0	25	0	0	0	0		Note: 3	
Test Res	sults [uı W/V	nits - W/V CEC	/ in g/cm BS%	′; CEC an Ac	nd Na in m pH	eq/100 c P-I	:m²; NO3- K-I	N in mg/ Ca%	dm"]: Mg%	S-I	Mn-l		Soil Class Mn-Al2	s: Mine Zn-I	eral Zn-Al	Cu-l	Na	ESP	SS-I	NO3-
0.13	1.45	1.7	74	0.4	6.0	158	18	47	21	13	120	82	82	91	91	43	0.1	6		
Sample			Rec	ommenda			ime						ents (lb/ac		_		-	T	Moi	·e
-			Cro	р		(ton	s/acre)	N	P ₂	O 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	ion
Lime His	story:		1 - H	Iardwood	, M		0.0	80-12	0 0)	30	25			0	0	0		Note: 1	<u>L</u>
			2 - H	lardwood	, M		0.0	80-12	0 ()	30	\$			0	0	0		Note: 1	Note:
Test Res	sults [uɪ	nits - W/V	' in g/cm³	; CEC an	nd Na in m	neq/100 c	:m³; NO₃-	N in mg/	dm³]:				Soil Class	: Mine	eral					
НМ%	W/V	CEC	BS%	Ac	рН	P-I	K-I	Ca%	Mg%	S-I	Mn-l	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO3-l
0.09	1.43	1.6	62	0.6	5.3	80	22	41	14	14	33			66	66	27	0.1	6		
Sample	ID : G1	2	Rec	ommend	ations:	L	_ime					Nutri	ents (lb/ac	re)					Moi	·e
			Cro	р		(ton	s/acre)	N	P2	O 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	ion
Lime His	story:		1 - T	obacco, f	flue-cured		0.0	50-80) ()	100	0	25	0	0	0	0		Note: 1	
			2-H	lardwood	, M		0.0	80-12	0 ()	0	0			0	0	0		Note: 1	_
Test Res	sults [uɪ	nits - W/V	' in g/cm³	; CEC an	ıd Na in m	eq/100 c	:m³; NO₃-	N in mg/	dm³]:				Soil Class	s: Mine	eral					
нм%	W/V	CEC	BS%	Ac	рН	P-I	K-I	Ca%	Mg%	S-I	Mn-l	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-l	Na	ESP	SS-I	NO3-l
0.13	1.40	2.8	76	0.7	5.9	128	47	49	19	18	79	57		112	112	44	0.1	4		
			<u> </u>												–		• • •	•		

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Sample	ID : H0	2	Reco	ommend	ations:	L	ime					Nutri	ents (lb/ac	re)					Мо	re
			Crop)		(ton	s/acre)	N	P20	O 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	tion
Lime His	story:		1 - S	oybean			0.0	0	0)	90	0	25	0	0	0	0		Note: 3	
			2 - S	mall Gra	in (SG)		0.0	80-10	0 0)	90	0	25	0	0	0	0		Note: 3	
Test Res	sults [uɪ	nits - W/V	/ in g/cm³	; CEC ar	nd Na in n	neq/100 c	m³; NO3-	N in mg/	dm³]:				Soil Class	s: Mine	eral					
НМ%	W/V	CEC	BS%	Ac	рН	P-I	K-I	Ca%	Mg%	S-I	Mn-l	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO ₃ -N
0.13	1.47	1.8	71	0.5	5.9	167	25	48	16	15	115	79	79	126	126	77	0.1	6		
Sample	ID : H0	3	Reco	ommend	ations:		ime					Nutri	ents (lb/ac	re)					Мо	re
			Crop	0		(ton	s/acre)	N	P20	O 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	tion
Lime His	story:		1-S	oybean			0.3	0	0)	70	25	25	0	0	0	0		Note: 3	
			2-S	mall Gra	in (SG)		0.0	80-10	0 0)	70	\$	25	0	0	0	0		Note: 3	Note: \$
Test Res	sults [uɪ	nits - W/V	/ in g/cm³	; CEC ar	nd Na in n	neq/100 c	m³; NO₃-	N in mg/	dm³]:				Soil Class	s: Mine	eral					
НМ%	W/V	CEC	BS%	Ac	рН	P-I	K-I	Ca%	Mg%	S-I	Mn-l	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO3-N
0.13	1.49	1.7	62	0.6	5.5	158	34	38	14	16	99	69	69	83	83	55	0.0			
Sample	ID: MC)1	Reco	ommend	ations:	L	ime					Nutri	ents (lb/ac	re)					Мо	re
			Crop	o		(ton	s/acre)	N	P20	O 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	tion
Lime His	story:		1 - S	weetpota	ato		0.0	60-90	0)	150	0	25	0	0	0	0.5		Note: 6	
			2 - V	egetable/	s, other		0.0	80-10	0 0)	180	0	25	0	0	0	0		Note: 6	
Test Res	sults [uɪ	nits - W/V	/ in g/cm³	; CEC ar	nd Na in n	neq/100 c	m³; NO₃-	N in mg/	dm³]:				Soil Class	s: Mine	eral					
НМ%	W/V	CEC	BS%	Ac	рН	P-I	K-I	Ca%	Mg%	S-I	Mn-l	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-l	Na	ESP	SS-I	NO3-N
0.22	1.50	1.9	69	0.6	5.7	212	24	46	17	14	83	67	60	337	337	63	0.1	5		
Sample	ID: MC)2	Reco	ommend	ations:	L	ime					Nutri	ents (lb/ac	re)					Мо	re
			Crop	o		(ton	s/acre)	N	P20	O 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	tion
Lime His	story:		1-S	weetpota	ato		0.3	60-90	0)	50	0	25	0	0	0	0.5		Note: 6	
0.40 ton	0.40 tons/acre; 3/2018			egetable/	s, other		0.0	80-10	0 0)	110	0	25	0	0	0	0		Note: 6	
Test Res	sults [uɪ	nits - W/V	/ in g/cm³	; CEC ar	nd Na in n	neq/100 c	m³; NO₃-	N in mg/	dm³]:				Soil Class	s: Mine	eral					
НМ%	W/V	CEC	BS%	Ac	рН	P-I	K-I	Ca%	Mg%	S-I	Mn-l	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-l	Na	ESP	SS-I	NO3-N
0.36	1.43	2.6	65	0.9	5.7	219	53	40	15	18	113	85	78	133	133	84	0.1	4		
		·~		<u> </u>	~											<u> </u>	•••	•		

NCDA&CS Agronomic Division Phone: (919) 733-2655								Webs	site: ww	w.ncag	ır.gov/agr	onomi/				R	Report No). F	Y19-SL0	23895
																			Page	5 of 8
Sample	ID: M0	3	Reco	ommenda	ations:		Lime					Nutrie	ents (lb/ac	re)					Мо	re
			Crop)		(ton	s/acre)	N	P2	O5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	tion
Lime His	story:		1 - S	weetpota	ito		0.3	60-90) ()	20	0	25	0	0	0	0.5	.	Note: 6	
			2 - V	egetable	s, other		0.0	80-10	0 ()	80	0	25	0	0	0	0		Note: 6	
Test Res	sults [ur	nits - W/V	/ in g/cm³	; CEC an	d Na in n	neq/100 c	:m³; NO₃-	N in mg/	dm³]:				Soil Class	: Mine	eral					
НМ%	W/V	CEC	BS%	Ac	рН	P-I	K-I	Ca%	Mg%	S-I	Mn-l	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-l	Na	ESP	SS-I	NO3-N
0.18	1.39	2.2	66	8.0	5.6	148	66	35	17	23	74	61	54	135	135	51	0.1	5		
Sample	ID : M0	4	Reco	ommenda	ations:		_ime					Nutrie	ents (lb/ac	re)					Мо	re
			Crop			(ton	ıs/acre)	N	P2	O 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	tion
Lime His	story:		1 - S	weetpota	ito		0.4	60-90) ()	50	0	25	0	0	0	0.5		Note: 6	
			2 - V	egetable	s, other		0.0	80-10	0 ()	100	0	25	0	0	0	0		Note: 6	
Test Res	sults [un	nits - W/V	' in g/cm ³	; CEC an	ıd Na in n	neq/100 c	:m³; NO₃-	N in mg/	dm³]:				Soil Class	: Mine	eral					
НМ%	W/V	CEC	BS%	Ac	рН	P-I	K-I	Ca%	Mg%	S-I	Mn-l	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-l	Na	ESP	SS-I	NO3-N
0.46	1.42	2.7	66	0.9	5.6	177	55	42	14	19	95	74	67	135	135	82	0.1	4		
Sample	ID: M0	5	Reco	ommenda	ations:	L	Lime					Nutrie	ents (lb/ac	re)					Мо	re
			Crop)		(ton	s/acre)	N	P2	O 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	tion
Lime His	story:		1 - S	weetpota	ito		0.3	60-90) ()	40	0	25	0	0	0	0.5		Note: 6	
			2 - V	egetable	s, other		0.0	80-10	0 ()	90	0	25	0	0	0	0		Note: 6	
Test Res	sults [ur	nits - W/V	∕ in g/cm³	; CEC an	ıd Na in n	neq/100 c	:m³; NO₃-	N in mg/	dm³]:				Soil Class	: Mine	eral					
НМ%	W/V	CEC	BS%	Ac	рН	P-I	K-I	Ca%	Mg%	S-I	Mn-l	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-l	Na	ESP	SS-I	NO3-N
0.18	1.41	2.0	66	0.7	5.6	120	59	37	14	16	77	63	56	85	85	51	0.1	5		
Sample	ID : M0	6	Reco	ommenda	ations:		Lime					Nutrie	ents (lb/ac	re)					Мо	re
	ample ib. Moo		Crop)		(ton	s/acre)	N	P2	O ₅	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	tion
Lime His	story:		1 - S	weetpota	ito		0.5	60-90) ()	80	0	25	0	0	0	0.5		Note: 6	
			2 - V	egetable	s, other		0.0	80-10	0 ()	130	0	25	0	0	0	0		Note: 6	
Test Res	sults [ur	nits - W/V	/ in g/cm³	; CEC an	ıd Na in n	neq/100 c	:m³; NO₃-	N in mg/	dm³]:				Soil Class	: Mine	eral					
НМ%	W/V	CEC	BS%	Ac	рН	P-I	K-I	Ca%	Mg%	S-I	Mn-l	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-l	Na	ESP	SS-I	NO3-N
0.32	1.41	2.2	58	0.9	5.4	204	44	37	12	18	74	61	54	115	115	72	0.1	5		
0.02				0.0	U. 1			<u> </u>				٠.	<u> </u>			. –	U. 1			

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																			Page	6 of 8
Sample	ID: MC)7	Reco	ommend	ations:	l	ime					Nutri	ents (lb/ac	re)					Mo	re
-			Crop)		(ton	s/acre)	N	P2	O ₅	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	tion
Lime His	storv:			weetpota	ito	•	0.4	60-90			0	0	20	0	0	0	0.5	5	Note: 6	
				egetable			0.0	80-10		0	60	0	20	0	0	0	0	- 1	Note: 6	
Test Re	sults [ur	nits - W/V	/ in g/cm³	; CEC an	ıd Na in n	neq/100 c	:m³; NO₃-	·N in mg/	dm³]:				Soil Class	s: Mine	eral					
НМ%	W/V	CEC	BS%	Ac	рН	P-I	K-I	Ca%	Mg%	S-I	Mn-l	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-l	Na	ESP	SS-I	NO3-N
0.22	1.24	3.0	71	0.9	5.6	90	78	40	18	23	62	54	47	37	37	46	0.1	3		
Sample	ID : P0	2	Reco	ommend	ations:	I	_ime					Nutri	ents (lb/ac	re)					Mo	re
			Crop)		(ton	s/acre)	N	P2	O 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	tion
Lime His	story:		1-C	orn, graii	า		0.0	120 - 1	60 0)	60	0	25	0	0	0	0		Note: 3	
0.50 ton	s/acre; 2	2/2018	2 - V	egetable	s, other		0.0	80-10	0 3	0	140	0	25	0	0	0	0		Note: 6	
Test Re	sults [ur	nits - W/V	/ in g/cm³	; CEC an	ıd Na in n	neq/100 c	:m³; NO₃-	·N in mg/	dm³]:				Soil Class	s: Mine	eral					
НМ%	W/V	CEC	BS%	Ac	рН	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
0.18	1.36	2.4	75	0.6	5.9	99	38	44	24	16	52	48	41	30	30	35	0.1	4		
Sample	ID : P0	3	Reco	ommend	ations:	Į.	ime					Nutri	ents (lb/ac	re)					Мо	re
-			Crop)		(ton	s/acre)	N	P ₂	O ₅	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	tion
Lime His	storv:		1 - C	orn, graii	า		0.0	120 - 1			10	0	25	0	0	0	0		Note: 3	
0.40 ton	•	2/2018	2 - V	egetable	s, other		0.0	80-10	0 ()	70	0	25	0	0	0	0		Note: 6	
Test Res	sults [ur	nits - W/V	/ in g/cm³	; CEC an	ıd Na in n	neq/100 c	:m³; NO₃-	·N in mg/	dm³]:				Soil Class	s: Mine	eral					
НМ%	W/V	CEC	BS%	Ac	рН	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-l	Na	ESP	SS-I	NO ₃ -N
0.32	1.33	3.1	77	0.7	6.0	123	70	45	21	19	73	61	54	56	56	49	0.1	3		
Sample	ID : P0	4	Reco	ommenda	ations:		ime					Nutri	ents (lb/ac	re)					Мо	re
-			Cros)		(ton	s/acre)	N	P2	O ₅	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	tion
Lime His	storv:		1 - V	egetable	s, other		0.0	80-10	0 0)	70	0	25	0	0	0	0		Note: 6	
	•		2 - C	orn, graiı	า		0.0	120 - 1	60 ()	10	0	25	0	0	0	0		Note: 3	
Test Res	sults [ur	nits - W/V	/ in g/cm ³	; CEC an	ıd Na in n	neq/100 c	:m³; NO₃-	·N in mg/	dm³]:				Soil Class	s: Mine	eral					
НМ%	W/V	CEC	BS%	Ac	рН	P-I	K-I	Ca%	Mg%	S-I	Mn-l	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-l	Na	ESP	SS-I	NO3-N
0.27	1.36	2.8	74	0.7	5.9	130	73	42	19	18	71	53	60	49	49	54	0.1	4		
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																			Page	7 of 8
Sample	ID : P0	5	Reco	mmend	ations:	L	ime					Nutri	ents (lb/ac	re)					Mo	re
			Crop)		(ton	s/acre)	N	P	2 O 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	tion
Lime His	story:		1-C	orn, grai	n		0.0	120 - 10	60 2	20	0	0	0	0	0	0	0		Note: 3	
0.40 tons/acre; 2/2018 2 - Vegetables, other						0.0	80-10	0 1	10	30	0	0	0	0	0	0		Note: 6		
Test Res	sults [uɪ	nits - W/V	in g/cm ³	; CEC ar	nd Na in m	neq/100 c	m³; NO₃-	N in mg/	dm³]:				Soil Class	s: Mine	ral					
НМ%	W/V	CEC	BS%	Ac	рН	P-I	K-I	Ca%	Mg%	S-I	Mn-l	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO ₃ -N
0.22	1.29	3.9	80	0.8	6.0	51	98	43	24	29	51	47	40	34	34	38	0.0			
Sample	ID : P0	6	Reco	mmend	ations:	L	ime					Nutri	ents (lb/ac	re)					Mo	re
			Crop)		(ton	s/acre)	N	P	2 O 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	tion
Lime His	story:		1 - V	egetable	s, other		0.0	80-10	0 1	40	20	0	0	0	0	0	0		Note: 6	
0.50 tons	s/acre; 2	2/2018	2 - C	orn, grai	n		0.0	120 - 10	60 5	50	0	0	0	0	0	0	0		Note: 3	
Test Res	st Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO₃-N in mg/dm³]: Soil Class: Mineral																			
НМ%	W/V	CEC	BS%	Ac	рН	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
0.18	1.24	4.1	80	0.8	6.0	38	105	43	24	37	44	36	43	30	30	35	0.0			

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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#65 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, NO3-N (not routinely available)] indicate levels of plant nutrients or other fertility measurement. Visit www.ncagr.gov/agronomi/uyrst.htm

Report Abbreviations

Ac	exchangeable acidity
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B boron

BS% % CEC occupied by basic cations
Ca% % CEC occupied by calcium

Ca% % CEC occupied by calcit cation exchange capacity

Cu-I copper index

ESP exchangeable sodium percent

HM% percent humic matter potassium index

K2O potash

Mg% % CEC occupied by magnesium

MIN mineral soil class
Mn manganese

Mn-Al1 Mn-availability index for crop 1
Mn-Al2 Mn-availability index for crop 2

Mn-I manganese index

M-O mineral-organic soil class

N nitrogen Na sodium

NO3-N nitrate nitrogen
ORG organic soil class
pH current soil pH
P-I phosphorus index

P2O5 phosphate
S-I sulfur index
SS-I soluble salt index
W/V weight per volume
Zn-AI zinc availability index

Zn-I zinc index