NCDA&CS Agronomic Division Phone: (919) 733-2655 Website: www.ncagr.gov/agronomi/ Report No. FY19-SL023896



Internal

Soil Report

Mehlich-3 Extraction

Client: Horticultural Crops Research Station /

Clinton

2450 Faison Hwy Clinton, NC 28328

100	(DED 1811				Informatio		/4.0./0.0.4.0	_	.		S Client ID:	ampled Co 40304	ounty : Sai 7	mpson		Adviso	or ID:			
Sampled Sample	: 12/01/2 ID: K0		eceived: (02/07/207 ommenda		pleted: 02	/13/2019 -ime	Farm:	Resstatio	n		Nutri	ents (lb/ac	re)					Mo	re
			Crop)		(ton	s/acre)	N	P20) 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	tion
Lime Hi	story:		1 - V	egetable	s, other		0.0	80-10	0 0		100	0	25	0	0	0	0		Note: 6	
0.50 ton	s/acre; 3	3/2018	2 - S	weetpota	ato		0.0	60-90	0		40	0	25	0	0	0	0.0		Note: 6	
Test Re	sults [ur	nits - W/V	' in g/cm³	; CEC ar	nd 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	NO ₃ -N
0.18	1.35	2.4	71	0.7	5.6	146	56	43	17	22	78	57	64	53	53	64	0.1	4		
Sample	ID : K0	2	Reco	ommend	ations:	L	ime					Nutri	ents (lb/ac	re)					Мо	re
			Crop)		(ton	s/acre)	N	P20) 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	tion
Lime His	story:		1-C	orn, graii	n		0.3	120 - 10	60 0		40	0	25	0	0	0	0		Note: 3	
0.40 ton	s/acre; 3	3/2018	2 - V	egetable	s, other		0.0	80-10	0 0		110	0	25	0	0	0	0		Note: 6	
Test Re	sults [ur	nits - W/V	' in g/cm ³	; CEC ar	nd 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	NO ₃ -N
0.32	1.33	3.1	69	1.0	5.7	181	49	44	17	24	130	95	88	60	60	92	0.1	3		
Sample	ID: K0	3	Reco	ommend	ations:	L	ime					Nutri	ents (lb/ac	re)					Мо	re
			Crop)		(ton	s/acre)	N	P20) 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	tion
Lime His	story:		1-C	orn, graii	n		0.0	120 - 10	60 0		40	0	25	0	0	0	0		Note: 3	
			2 - V	egetable	s, other		0.0	80-10	0 0		110	0	25	0	0	0	0		Note: 6	
Test Re	et Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³;								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	NO ₃ -N
LIIAI \0	**/ *				•															



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.

Advisor:

NCDA&	CS Agro	nomic D	ivision	Pi	none: (91	19) 733-26	355	Webs	site: www	w.ncag	ır.gov/agr	onomi/				R	Report No). F	Y19-SL0	23896
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Sample	ID : K0	4	Reco	ommenda	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 - V	egetable	s, other		0.0	80-10	0 60)	40	0	20	0	0	0	0		Note: 6	
			2 - S	weetpota	ito		0.0	60-90) 0)	0	0	20	0	0	0	0.0		Note: 6	
Test Re	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	1.19	3.1	87	0.4	6.4	76	86	48	25	21	57	38	45	52	52	88	0.1	3		
Sample	ID : K0	5	Reco	ommenda	ations:		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:			egetable			0.0	80-10	-		60	0	25	0	0	0	0		Note: 6	
			2-S	weetpota	to		0.0	60-90) 0		0	0	25	0	0	0	0.0		Note: 6	
Test Re	sults [ur	nits - W/V	' in g/cm ³	; 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
0.27	1.34	3.1	77	0.7	5.9	132	74	49	15	25	95	67	74	82	82	158	0.1	3		
Sample	ID : K0	6	Reco	ommenda	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 - V	egetable	s, other		0.0	80-10	0 0		80	0	0	0	0	0	0		Note: 6	
			2 - S	weetpota	ito		0.0	60-90) 0)	30	0	0	0	0	0	0.0		Note: 6	
Test Res	sults [ur	nits - W/V	' in g/cm ³	; 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
0.41	1.26	3.7	78	0.8	5.9	229	63	54	15	27	142	95	102	130	130	162	0.1	3		
Sample	ID : K0	7	Reco	ommenda	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	tion
Lime His	story:		1 - V	egetable	s, other		0.0	80-10			90	0	0	0	0	0	0		Note: 6	
			2 - S	weetpota	ito		0.0	60-90) 0)	40	0	0	0	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	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
0.32	1.37	3.1	79	0.6	6.0	226	59	53	17	28	112	77	84	129	129	62	0.1	3		

NCDA&	CS Agro	nomic D	ivision	Pi	none: (91	9) 733-26	S55	Webs	site: ww	w.ncag	ır.gov/agr	onomi/				R	Report No	o. F	Y19-SL0	23896
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Sample	ID : K0	8	Reco	ommenda	ations:	L	ime					Nutrie	ents (lb/ac	re)					Moi	re
			Crop)		(ton	s/acre)	N	P ₂	O ₅	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	tion
Lime Hi	story:			egetable:	s. other	•	0.0	80-10			80	0	0	0	0	0	0		Note: 6	
	J. J.		1	weetpota	•		0.0	60-90) ()	20	0	0	0	0	0	0.0		Note: 6	
Test Re	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	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	NO3-N
0.22	1.39	2.9	78	0.6	6.0	200	65	49	17	29	83	60	67	119	119	53	0.1	3		
Sample	ID : K0	9	Reco	ommenda	ations:	L	ime					Nutrie	ents (lb/ac	re)					Mor	re
			Crop)		(ton	s/acre)	N	P2	O 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	tion
Lime Hi	story:		1 - V	egetable:	s, other		0.0	80-10	0 40	0	50	0	25	0	0	0	0		Note: 6	
	-		2 - S	weetpota	ito		0.0	60-90) ()	0	0	25	0	0	0	0.0)	Note: 6	
	_		_	; CEC an	d Na in n	neq/100 c		_	_				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
0.18	1.31	3.1	80	0.6	6.1	91	83	48	19	23	55	42	49	57	57	56	0.1	3		
Sample	ID : L0	1	Reco	ommenda	ations:	L	ime					Nutrie	ents (lb/ac	re)					Mor	re
			Crop	o		(ton	s/acre)	N	P2	O 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	tion
Lime Hi	story:		1 - V	egetable:	s, other		0.0	80-10	0 0)	120	0	25	0	0	0	0		Note: 6	
0.50 ton	s/acre; 3	3/2018	2 - S	oybean			0.0	0	C)	50	0	25	0	0	0	0		Note: 3	
Test Re	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	ral					
НМ%	W/V	CEC	BS%	Ac	рН	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-l	Zn-Al	Cu-I	Na	ESP	SS-I	NO ₃ -N
0.18	1.43	2.0	65	0.7	5.7	188	47	40	13	15	81	59	59	65	65	45	0.1	5		
Sample	ID : L02	2	Reco	ommenda	ations:	L	ime					Nutrie	ents (lb/ac	re)					Moi	re
			Crop)		(ton	s/acre)	N	P ₂	O ₅	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	tion
Lime Hi	storv:		1 _{1 -} V	egetable:	s, other	•	0.0	80-10	0 0)	160	0	25	0	0	0	0		Note: 6	
	s/acre; 3	3/2018	1	oybean	,		0.0	0	C)	80	0	25	0	0	0	0		Note: 3	
Test Re	sults fur	nits - W/V	in g/cm ³	; CEC an	d Na in n	neg/100 c	:m³; NO3-	N in ma/	dm ³ 1:				Soil Class	: Mine	ral			ı		
НМ%	W/V	CEC	BS%	Ac	рН	P-I	K-I	Ca%	Mg%	S-I	Mn-I		Mn-Al2	Zn-I	Zn-Al	Cu-l	Na	ESP	SS-I	NO3-N
0.13	1.46	1.8	64	0.6	5.6	217	31		•	15	74			60	60	50	0.1	6		
U 1.3	1.40	1.0	04	0.0	5.0	41 1	٦ i	41	15	10	/ 4	54	54	UU	UU	JU	U. I	U		

NCDA&	CS Agro	nomic D	ivision	Pi	none: (91	19) 733-26	355	Webs	site: www	w.ncag	ır.gov/agr	onomi/				R	Report No). F	Y19-SL0	23896
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Sample	ID: L4	A	Reco	ommenda	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 - V	egetable	s, other		0.0	80-10	0 11	0	40	0	20	0	0	0	0		Note: 6	
0.50 ton	•	3/2018	2-S	oybean	,		0.0	0	20	0	0	0	20	0	0	0	0		Note: 3	
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-l	Na	ESP	SS-I	NO ₃ -N
0.09	1.28	4.6	90	0.4	6.4	51	92	49	31	20	45	31	31	55	55	44	0.1	2		
Sample	ID : L4	В	Reco	ommenda	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	tion
Lime His	story:		1 - V	egetable	s, other		0.0	80-10	0 0		150	0	25	0	0	0	0		Note: 6	
			2 - S	oybean			0.0	0	0)	70	0	25	0	0	0	0		Note: 3	
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-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO ₃ -N
0.13	1.48	2.3	86	0.3	6.3	141	33	60	19	18	74	50	50	58	58	44	0.1	4		
Sample	ID: MC	8	Reco	ommenda	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	weetpota	ito		0.0	60-90			50	0	25	0	0	0	0.5	;	Note: 6	
	,		2 - V	egetable	s, other		0.0	80-10	0 0)	100	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	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	NO3-N
0.22	1.41	2.0	72	0.6	5.8	151	54	43	15	17	92	72	65	112	112	69	0.1	5		
Sample			Reco	ommenda	ations:	L	ime						ents (lb/ac	re)					Mo	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	weetpota	ito		0.0	60-90) 0		30	0	25	0	0	0	0.5	;	Note: 6	
			2 - V	egetable	s, other		0.0	80-10	0 0)	90	0	25	0	0	0	0		<u>Note: 6</u>	
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-l	Na	ESP	SS-I	NO3-N
0.18	1.42	2.2	72	0.6	5.8	132	61	41	17	18	73	61	54	86	86	48	0.1	5		
			. –																	

NCDA&0	CS Agro	nomic D	ivision	PI	hone: (91	9) 733-20	655	Webs	site: ww	w.ncag	gr.gov/agr	onomi/				R	eport No	. F	Y19-SL0	23896
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Sample	ID: M1	1	Reco	ommend	ations:		Lime					Nutrie	ents (lb/ac	re)					Mo	re
			Crop)		(ton	ıs/acre)	N	P2	O 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	ion
Lime His	story:		1 - S	weetpota	ito		0.0	60-90) ()	0	0	25	0	0	0	0.5		Note: 6	
			2 - V	egetable	s, other		0.0	80-10	0 ()	30	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	cm³; 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
0.27	1.36	2.9	78	0.6	6.0	136	94	44	18	20	74	61	54	69	69	68	0.1	3		
Sample	ID: M1	2	Reco	ommend	ations:		Lime					Nutrie	ents (lb/ac	re)					Mo	re
			Crop			(ton	ıs/acre)	N		O 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	ion
Lime His	story:		1 - S	weetpota	ito		0.0	60-90)	0	0	25	0	0	0	0.5		Note: 6	
			2 - V	egetable	s, other		0.0	80-10	0 1	0	50	0	25	0	0	0	0		Note: 6	
Test Res	sults [ur	nits - W/V	' in g/cm ³	; CEC an	and Na in meq/100 cm ³ ; NO ₃ -N in mg/dm ³]: Soil Class: Mineral															
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	1.38	2.4	74	0.6	5.7	114	84	39	17	18	64	55	48	70	70	58	0.1	4		
Sample	ID : M1	4	Reco	ommend	ations:		Lime					Nutrie	ents (lb/ac	re)					Mo	re
			Crop)		(ton	ıs/acre)	N	P2	O 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	ion
Lime His	story:		1 - S	weetpota	ito		0.0	60-90) ()	0	0	0	0	0	0	0.5		Note: 6	
			2 - V	egetable	s, other		0.0	80-10	0 ()	0	0	0	0	0	0	0		Note: 6	
Test Res	sults [ur	nits - W/V	' in g/cm ³	; CEC an	ıd Na in n	neq/100 c	cm³; 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-N
1.02	1.31	5.6	81	1.1	6.0	208	148	51	17	28	117	87	80	81	81	90	0.1	2		
Sample	ID: M1	5	Reco	ommend	ations:		Lime					Nutrie	ents (lb/ac	re)					Mo	re
			Crop)		(ton	ıs/acre) ¯	N	P2	O 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	iion
Lime His	story:		1 - S	weetpota	ito		0.0	60-90) ()	0	0	25	0	0	0	0.5		Note: 6	
			2 - V	egetable	s, other		0.0	80-10	0 2	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	: 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	1.39	2.5	71	0.7	5.7	107	73	40	17	18	69	58	51	63	63	55	0.1	4		
			• •	···	···								<u> </u>				v	•		

NCDA&	CS Agro	nomic D	ivision	Pi	none: (91	19) 733-26	655	Webs	site: ww	w.ncag	gr.gov/agr	onomi/				R	Report No). F	Y19-SL0	23896
																			Page (6 of 11
Sample	ID : N0	2	Reco	mmenda	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:			weetpota	ito		0.0	60-90) 60	0	0	0	0	0	\$	0	0.5	;	Note: 6	Note: \$
0.30 ton	-	3/2018	2 - V	egetable:	s, other		0.0	80-10	0 13	30	30	0	0	0	\$	0	0		Note: 6	Note: S
Test Res	sults [ur	nits - W/V	' in g/cm ³	; CEC an	d Na in m	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
0.09	1.28	3.2	81	0.6	6.1	42	94	42	25	41	49	45	38	24	24	60	0.1	3		
Sample	ID : N0	3	Reco	mmenda	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	ion
Lime His	story:		1-C	ucumber			0.4	80-14	0 0)	70	0	0	0	0	0	0		Note: 6	
			2 - V	egetable	s, other		0.0	80-10	0 0)	70	0	0	0	0	0	0		Note: 6	
Test Res	sults [ur	nits - W/V	/ in g/cm³	; CEC an	d Na in m	neq/100 c	:m ³ ; 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	NO3-N
0.36	1.38	2.6	67	0.8	5.5	209	70	39	14	32	91	65	65	94	94	101	0.1	4		
Sample	ID: NO	4	Reco	mmenda	ations:		_ime					Nutrie	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 - C	ucumber			0.4	80-14			140	0	0	0	0	0	0		Note: 6	
	•		2 - V	egetable	s, other		0.0	80-10	0 0)	140	0	0	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	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	2.5	66	8.0	5.4	238	38	45	13	33	84	60	60	77	77	123	0.1	4		
Sample	ID : N0	5	Reco	mmenda	ations:	L	_ime					Nutri	ents (lb/ac	re)					Moi	re
			Crop)		(ton	s/acre)	N	P20	O5	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)	70	0	0	0	0	0	0		Note: 6	
			2 - V	egetable	s, other		0.0	80-10	0 0)	70	0	0	0	0	0	0		<u>Note: 6</u>	
Test Res	sults [ur	nits - W/V	/ in g/cm³	; CEC an	d Na in n	neq/100 c	:m³; NO₃-	N in mg/	dm ³]:				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
0.13	1.42	2.6	75	0.6	5.8	148	70	43	19	39	58	45	45	88	88	84	0.1	4		

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Sample	ID: N0	6	Reco	ommenda	ations:	L	ime					Nutrie	ents (lb/ac	re)					Mo	e e
			Crop)		(ton	s/acre)	N	P ₂	O5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	ion
Lime His	storv:			egetable:	s, other	-	0.0	80-10	0 0)	80	0	0	0	0	0	0		Note: 6	
				egetables	•		0.0	80-10	0 0)	80	0	0	0	0	0	0		Note: 6	
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	NO ₃ -N
0.18	1.44	2.7	76	0.6	5.8	155	68	46	17	30	78	57	57	69	69	109	0.1	4		
Sample	ID : N0	7	Reco	ommenda	ations:	L	ime					Nutrie	ents (lb/ac	re)					Mo	e e
			Crop	o		(ton	s/acre)	N	P2	O ₅	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	ion
Lime His	story:		1 - V	egetables	s, other		0.0	80-10	0 0)	30	0	0	0	0	0	0		Note: 6	
	-		2-C	orn, grair	า		0.0	120 - 1	60 C)	0	0	0	0	0	0	0		Note: 3	
Test Res	sults [ur	ults [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-l	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-l	Na	ESP	SS-I	NO ₃ -N
0.36	1.31	4.0	77	0.9	5.8	130	93	46	19	28	75	55	62	90	90	102	0.1	3		
Sample	ID: N1	0	Reco	ommenda	ations:	L	ime					Nutrie	ents (lb/ac	re)					Moi	e
			Crop	o		(ton	s/acre)	N	P ₂	O5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	ion
Lime His	story:		1 - S	weetpota	ito		0.0	60-90) 0)	80	0	25	0	0	0	0.5		Note: 6	
			2 - V	egetable:	s, other		0.0	80-10	0 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-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-l	Na	ESP	SS-I	NO ₃ -N
0.13	1.44	2.0	72	0.6	5.7	159	44	46	16	14	67	57	50	72	72	131	0.1	5		
Sample	ID: N1	1	Reco	ommenda	ations:	L	ime					Nutrie	ents (lb/ac	re)					Moi	·e
-			Crox	0		(ton	s/acre)	N	P ₂	O 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	ion
Lime His	storv:		1 - C	ucumber			0.0	80-14	0 0)	80	0	25	0	0	0	0		Note: 6	
			2 - V	egetable:	s, other		0.0	80-10	0 0)	80	0	25	0	0	0	0		Note: 6	
Test Res	sults [ur	nits - W/V	in g/cm ³	; CEC an	ıd Na in m	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	NO ₃ -N
0.32	1.38	3.2	76	0.8	5.8	221	68	49	16	18	100	70	70	97	97	189	0.1	3		
0.02	1.00	0.2	, ,	0.0	0.0	'		10		.0	100	, ,	, ,	0,	0,	100	J. 1			

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Sample	ID: N1	2	Reco	mmend	ations:	L	ime					Nutrie	ents (lb/ac	re)					Moi	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	ucumber	-		0.0	80-14	0 0)	80	0	25	0	0	0	0		Note: 6	
0.40 ton	s/acre; ()/0	2 - V	egetable	s, other		0.0	80-10	0 ()	80	0	25	0	0	0	0		Note: 6	
Test Res	sults [uɪ	nits - W/V	' in g/cm³	; CEC ar	nd Na in m	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	NO3-N
0.13	1.38	2.6	74	0.7	5.7	157	65	43	18	24	115	79	79	59	59	106	0.1	4		
Sample	ID: N1	3	Reco	mmend	ations:		ime						ents (lb/ac	re)					Moi	
			Crop			(ton	s/acre)	N	P2		K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	
Lime His	•			weetpota			0.0	60-90			0	0	0	0	0	0	0.5		Note: 6	
0.40 ton	s/acre; 2	2/2018	2 - V	egetable	s, other		0.0	80-10	0 10	00	0	0	0	0	0	0	0		Note: 6	
Test Res	esults [units - W/V in g/cm³; CEC and Na in meq/100 cm³; NO ₃ -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-l	Na	ESP	SS-I	NO ₃ -N
0.09	1.29	4.3	78	0.9	5.9	54	153	39	22	43	44	43	36	26	26	73	0.1	2		
Sample	ID: N1	4	Reco	mmend	ations:	L	ime					Nutrie	ents (lb/ac	re)					Mor	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	ato		0.3	60-90) ()	0	0	25	0	0	0	0.5		Note: 6	
			2 - V	egetable	s, other		0.0	80-10	0 ()	10	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-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-l	Na	ESP	SS-I	NO3-N
0.22	1.37	3.5	73	1.0	5.7	149	110	40	18	25	66	57	50	53	53	83	0.1	3		
Sample	ID : N1	5	Reco	mmend	ations:	L	.ime					Nutrie	ents (lb/ac	re)					Moi	re
			Crop)		(ton	s/acre)	N	P2	O 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	tion
Lime His	story:			egetable	s, other		0.3	80-10	0 0)	60	0	0	0	0	0	0		Note: 6	
			2 - S	oybean			0.0	0	()	0	0	0	0	0	0	0		Note: 3	
Test Res	sults [uɪ	nits - W/V	' in g/cm³	; CEC ar	nd Na in m	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
0.56	1.34	4.0	73	1.1	5.8	151	79	45	19	32	56	44	44	55	55	93	0.2	5		
		-				-										-		-		

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Sample	ID: N1	7	Reco	ommend	ations:		Lime					Nutrie	ents (lb/ac	re)					Moi	re
-			Crox)		(ton	s/acre)	N	P20	D 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	tion
Lime Hi	storv:		1 - V	egetable	s, other	,	0.3	80-10	0 90)	30	0	25	0	0	0	0		Note: 6	
				oybean			0.0	0	10)	0	0	25	0	0	0	0		Note: 3	
Test Re	sults [uɪ	nits - W/V	/ in g/cm³	; CEC an	ıd Na in n	neq/100 d	: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
0.13	1.30	3.2	75	8.0	5.7	60	100	37	23	24	41	35	35	27	27	48	0.1	3		
Sample	ID: N1	8	Reco	ommend	ations:		Lime					Nutrie	ents (lb/ac	re)					Mo	re
			Crop)		(ton	ıs/acre)	N	P20) 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	tion
Lime Hi	story:		1 - V	egetable	s, other		0.3	80-10	0 0		70	0	25	0	0	0	0		Note: 6	
0.30 ton	s/acre; 2	2/2018	2 - C	orn, graii	n		0.0	120 - 1	60 0)	10	0	25	0	0	0	0		Note: 3	
Test Re	Results [units - W/V in g/cm³; CEC and Na in meq/100 cm³; 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
0.22	1.31	2.9	70	0.9	5.7	145	71	40	18	20	66	50	57	51	51	69	0.1	3		
Sample	ID: N1	9	Reco	ommend	ations:		_ime					Nutrie	ents (lb/ac	re)					Mo	re
			Crop			(ton	s/acre)	N	P20	D 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	
Lime Hi	storv:			egetable	s, other	,	0.0	80-10			30	0	0	0	0	0	0		Note: 6	
0.30 ton	•	3/2018		orn, graii			0.0	120 - 1	60 0)	0	0	0	0	0	0	0		Note: 3	
Test Re	sults [uɪ	nits - W/V	in g/cm ³	; 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-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-l	Na	ESP	SS-I	NO ₃ -N
0.13	1.40	3.2	77	8.0	5.9	101	98	41	21	31	68	51	58	26	26	69	0.1	3		
Sample	ID: N2	0	Reco	ommend	ations:		_ime					Nutri	ents (lb/ac	re)					Moi	re
			Crop)		(ton	s/acre)	N	P20) 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	tion
Lime His	story:		1-S	weetpota	ito		0.0	60-90	0 0		0	0	0	0	\$	0	0.5	;	Note: 6	Note: \$
0.40 ton	s/acre; 3	3/2018	2-C	orn, graii	n		0.0	120 - 1	60 0	١	0	0	0	0	6	0	0		Note: 3	
Test Re	sults [uɪ	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
0.13	1.31	4.1	76	1.0	5.8	70	136	38	21	35	52	48	48	24	24	71	0.1	2		
J J		•••			<u> </u>	. •										• •	•			

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Sample	ID : N2	1	Reco	ommend	ations:	Lime				Nutr	ients (lb/ad	cre)					Мо	re
			Crop)		(tons/acre)	N	P2O5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	tion
Lime His	story:		1-S	weetpota	ato	0.3	60-90	20	0	0	0	0	0	0	0.5		Note: 6	
			2-C	orn, graii	n	0.0	120 - 160	10	0	0	0	0	0	0	0		<u>Note: 3</u>	
Test Res	sults [ur	nits - W/V	' in g/cm³	; CEC an	nd Na in m	eq/100 cm ³ ; NO	3-N in mg/dı	m ³]:			Soil Clas	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
0.27	1.28	4.4	76	1.0	5.8	57 116	44	19	32 99	76	76	33	33	80	0.1	2		

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

Lime

Recommendations

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-Al1, Mn-Al2, Zn-I, Zn-Al, 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

CEC 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