NCDA&CS Agronomic Division

Phone: (919) 733-2655

Website: www.ncagr.gov/agronomi/

Report No.

FY20-SL017723



Predictive

Soil Report

Mehlich-3 Extraction

Client: Horticultural Crops Research Station /

Clinton

2450 Faison Hwy Clinton, NC 28328

Links to Helpful Information

Sampled County : Sampson

Client ID: 403047

Advisor ID:

Advisor:

Sampled: 11/19/2019

9 Rec

Received: 11/19/2019

Completed: 12/16/2019 Fa

Farm: Resstation

Agronomist's Comments:

Blueberry hardly ever needs lime; no lime should be applied unless advised by an experienced consultant. Soil pH in the 4.0 to 5.0 range is preferable. If you received a lime recommendation on the report, it is due to the second crop code selection. Our recommendation program provides a lime recommendation for the crop with the highest target pH. This lime recommendation when it exists will always appear next to the first crop. If there is confusion about this, please contact us. Also read Note 18 that can be accessed by a hyperlink found on the report.

Sample	ID : A0	1	Reco	ommend	ations:		.ime					Nutrie	ents (lb/ac	re)					Mor	e
			Crop)		(ton	s/acre)	N	P20) 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	ion
Lime His	story:		1 - S	weetpota	ato		0.0	60-90	0		10	0	0	0	0	0	0.5		Note: 6	
			2 - V	egetable	s, other		0.0	80-100	0		70	0	0	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/d	lm³]:			;	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-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO ₃ -N
0.27	1.35	2.8	78	0.6	5.9	223	69	50	16	28	89	70	63	90	90	71	0.1	4		
Sample	ID: A0	A06 Recommendations:					ime					Nutrie	ents (lb/ac	re)					Mor	e
		Crop					s/acre)	N	P20	D 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	ion
		1 2					0.0	120 - 16	0 0		20	0	0	0	0	0	0		Note: 3	
Lime His	story:																			
Lime His	story:	1					0.0	80-100	0		90	0	0	0	0	0	0		Note: 6	
		nits - W/V	2 - V	egetable	s, other	neq/100 c	0.0	80-100 N in mg/d			90		0 Soil Class			0	0		Note: 6	
		nits - W/V	2 - V	egetable	s, other	neq/100 c P-I	0.0			S-I	90 Mn-l					0 Cu-l	0 Na	ESP	Note: 6	NO3-N
Test Res	sults [uɪ		2 - ∨ / in g/cm³	egetable ; CEC ar	s, other	-	0.0 m³; NO3-	-N in mg/d	lm³]:				Soil Class	: Mine	ral			ESP 3		NO3-N
Test Res HM% 0.32	sults [ui W/V 1.37	CEC 3.1	2 - V / in g/cm³ BS% 83	egetable ; CEC ar Ac	s, other nd Na in n pH 6.2	P-I 283	0.0 m³; NОз- K-I	-N in mg/d Ca%	lm³]: Mg%	S-I	Mn-l	Mn-Al1 74	Soil Class	: Mine Zn-I 132	ral Zn-Al	Cu-l	Na			
Test Res	sults [ui W/V 1.37	CEC 3.1	2 - V / in g/cm³ BS% 83	egetable ; CEC ar Ac 0.5	s, other nd Na in n pH 6.2	P-I 283	0.0 m³; NO3- K-I 62	-N in mg/d Ca%	lm³]: Mg%	S-I 26	Mn-l	Mn-Al1 74 Nutrie	Soil Class Mn-Al2 67	: Mine Zn-I 132	ral Zn-Al	Cu-l	Na		SS-I	e
Test Res HM% 0.32 Sample	sults [ui W/V 1.37 ID: A1	CEC 3.1	2 - V I in g/cm³ BS% 83 Recc Crop	egetable ; CEC ar Ac 0.5 commend	s, other nd Na in n pH 6.2 ations:	P-I 283	m³; NO3- K-I 62 .ime s/acre)	-N in mg/d Ca%	lm³]: Mg% 19	S-I 26	Mn-I 100	Mn-Al1 74	Soil Class Mn-Al2 67 ents (lb/ac	: Mine Zn-I 132 re)	ral Zn-Al 132	Cu-l 138	Na 0.1		SS-I Mor Informat	e
Test Res HM% 0.32	sults [ui W/V 1.37 ID: A1	CEC 3.1	Z - V / in g/cm³ BS% 83 Recc Cror 1 - C	egetable ; CEC ar Ac 0.5	s, other nd Na in n pH 6.2 ations:	P-I 283	0.0 m³; NO3- K-I 62 .ime	-N in mg/d Ca% 55	Mg% 19 P20	S-I 26	Mn-I 100	Mn-Al1 74 Nutrie	Soil Class Mn-Al2 67 ents (lb/ac	: Mine Zn-I 132 re)	ral Zn-Al 132 Zn	Cu-l 138	Na 0.1		SS-I Mor	e
Test Res HM% 0.32 Sample Lime His	sults [ui W/V 1.37 ID: A1 story:	3.1 0	2 - V / in g/cm³ BS% 83 Recc Crop 1 - C 2 - V	egetable ; CEC ar Ac 0.5 commend corn, grainegetable	s, other nd Na in n pH 6.2 ations: n s, other	P-I 283 L (ton	0.0 m³; NO3- K-I 62 .ime s/acre) 0.3 0.0	N in mg/d Ca% 55 N 120 - 16 80-100	Mg% 19 P20 60 0	S-I 26	Mn-I 100 K2O 70	Mn-Al1 74 Nutrie Mg 0 0	Soil Class Mn-Al2 67 ents (lb/ac) S 25	E: Mine Zn-I 132 re) Mn 0 0	zn-Al 132 Zn 0 0	Cu-I 138 Cu 0	Na 0.1		SS-I Mor Informat Note: 3	e
Test Res HM% 0.32 Sample Lime His	sults [ui W/V 1.37 ID: A1 story:	3.1 0	2 - V / in g/cm³ BS% 83 Recc Cror 1 - C 2 - V / in g/cm³	egetable ; CEC ar Ac 0.5 commend corn, grainegetable ; CEC ar	s, other nd Na in n pH 6.2 ations: n s, other nd Na in n	P-I 283 L (ton	0.0 m³; NO3- K-I 62 ime s/acre) 0.3 0.0 m³; NO3-	N in mg/d Ca% 55 N 120 - 16 80-100 N in mg/d	Mg% 19 P20 60 0 0 0	S-I 26 D5	Mn-I 100 K2O 70 150	Mn-Al1 74 Nutrie Mg 0 0	Soil Class Mn-Al2 67 ents (lb/ac) S 25 25 Soil Class	E: Mine Zn-I 132 Te) Mn 0 0 Mine	zn-Al 132 Zn 0 0	Cu-I 138 Cu 0 0	Na 0.1 B 0 0	3	Mor Informat Note: 3 Note: 6	e ion
Test Res HM% 0.32 Sample Lime His	sults [ui W/V 1.37 ID: A1 story:	3.1 0	2 - V / in g/cm³ BS% 83 Recc Crop 1 - C 2 - V	egetable ; CEC ar Ac 0.5 commend corn, grainegetable	s, other nd Na in n pH 6.2 ations: n s, other	P-I 283 L (ton	0.0 m³; NO3- K-I 62 .ime s/acre) 0.3 0.0	N in mg/d Ca% 55 N 120 - 16 80-100	Mg% 19 P20 60 0	S-I 26	Mn-I 100 K2O 70	Mn-Al1 74 Nutrie Mg 0 0	Soil Class Mn-Al2 67 ents (lb/ac) S 25 25 Soil Class	E: Mine Zn-I 132 re) Mn 0 0	zn-Al 132 Zn 0 0	Cu-I 138 Cu 0	Na 0.1		SS-I Mor Informat Note: 3	e



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.

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																			Page :	2 of 11
Sample	ID: A1	1	Reco	ommenda	ations:	L	ime					Nutri	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 His	storv:		- 1	orn, grair	า	•	0.0	120 - 1			60	0	25	0	0	0	0		Note: 3	
				egetables			0.0	80-10	0 0)	130	0	25	0	0	0	0		Note: 6	
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	: 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	NO3-1
0.18	1.34	1.8	71	0.5	5.8	150	41	45	15	18	54	49	42	98	98	70	0.1	6		
Sample	ID : A1	2	Reco	ommenda	ations:	L	ime					Nutri	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 - V	egetables	s, other		0.0	80-10	0 0)	110	0	20	0	0	0	0		Note: 6	
0.40 ton	s/acre; 3	3/2019	2 - S	oybean			0.0	0	()	40	0	20	0	0	0	0		Note: 3	
Test Res	sults [ui W/V	nits - W/V CEC	/ in g/cm³ BS%	; CEC an Ac	id Na in n pH	neq/100 c P-l	:m³; NO₃- K-I	N in mg/ Ca%	dm³]: Mg%	S-I	Mn-l		Soil Class Mn-Al2	s: Mine Zn-I	eral Zn-Al	Cu-l	Na	ESP	SS-I	NO3-
		2.7			•				_										00-1	1403-1
0.22 Sample	1.29		82	0.5 ommenda	6.3	170	53 _ime	50	23	20	65	45 Nutri	45 ents (lb/ac	118	118	50	0.1	4	Moi	
Sample	ib . 50	' 1	Crop		ations.		-iiiie is/acre)	N	P2	Ω5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	
Lime His	story:			egetables	s other	(0.3	80-10			160	0	25	0	0	0	0		Note: 6	
Lillie III.	story.			oybean	0, 00101		0.0	0	(80	0	25	0	0	0	0		Note: 3	
Test Res	sults fur	nits - W/V	/ in g/cm³	: CEC an	d Na in n	nea/100 c	:m³: NO3-	N in ma/	dm ³ 1:				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
0.22	1.39	2.2	71	0.6	5.6	160	30	46	17	19	61	47	47	128	128	70	0.1	5		
Sample				ommenda			_ime	40	17	19	01		ents (lb/ac		120	70	0.1	1	Mor	
Campic	. B	_	Cros		ations.		s/acre)	N	P ₂	05	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	
Lime His	otom.			egetables	e other	(101)	0.0	80-10			120	0	2 5	0	0	0	0		Note: 6	.1011
0.30 ton	•	2/2010		•	s, ouici		0.0	00-10)	50	0	25	0	0	0	0			
				oybean						,	50	U	20			0	0		Note: 3	
Test Res	sults [uɪ	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-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-l	Na	ESP	SS-I	NO ₃ -N
0.18	1.40	2.1	79	0.4	6.1	113	45	46	23	24	58	44	44	69	69	86	0.1	5		

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Sample	ID : B0	3	Reco	mmenda	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	ion
Lime His	story:			egetables	s. other	•	0.0	80-10			120	0	25	0	0	0	0		Note: 6	
				oybean	,		0.0	0	()	50	0	25	0	0	0	0		Note: 3	
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			ï		
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
0.27	1.33	2.4	75	0.6	5.8	151	47	46	18	25	75	55	55	102	102	62	0.1	4		
Sample			mmenda	tions:	L	ime					Nutrie	ents (lb/ac	re)					Мо	re	
	Crop					(ton	s/acre)	N	P2	O5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	ion
Lime His	story:		1 - V	egetables	s, other		0.0	80-10	0 2	0	150	0	25	0	0	0	0		Note: 6	
0.50 ton	•	3/2019		oybean			0.0	0	()	70	0	25	0	0	0	0		Note: 3	
	_		in g/cm ³			-		_	_	٥.			Soil Class		-			500	00.1	
HM%	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	NO ₃ -N
0.13	1.43	2.3	78	0.5	6.0	107	33	49	21	21	52	41	41	104	104	53	0.1	4		
Sample	ID : B0	5	Reco	mmenda	ations:		_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	ion
Lime His	story:		1 - V	egetables	s, other		0.3	80-10	0 0)	140	0	0	0	0	0	0		Note: 6	
			2 - S	oybean			0.0	0	()	60	0	0	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	: 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
0.22	1.40	2.1	73	0.6	5.7	118	39	44	20	47	73	54	54	75	75	115	0.1	5		
Sample	ID : B0	6	Reco	mmenda	ations:	L	.ime					Nutrie	ents (lb/ac	re)					Моі	re
			Crop)		(ton	s/acre)	N	P2	O5	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)	130	0	0	0	0	0	0		Note: 6	
			2 - S	oybean			0.0	0	()	50	0	0	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-I	Na	ESP	SS-I	NO3-N
0.27	1.44	2.4	73	0.6	5.8	152	42	46	18	44	75	55	55	112	112	61	0.1	4		
V. - .				0.0	0.0											٠.	J			

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Sample	ID : B0	7	Reco	ommend	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			150	0	0	0	0	0	0		Note: 6	
				oybean	,		0.0	0	0)	70	0	0	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
0.41	1.40	2.5	74	0.6	5.8	103	35	47	21	44	38	33	33	41	41	27	0.1	4		
Sample	ple ID: C01 Recommo				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 - B	lueberry,	M		0.0	30-60	0		0	0	0		0	0	0		Note: 18	<u>3</u>
	-		2 - B	lueberry,	М		0.0	30-60) 0)	0	0	0		0	0	0		Note: 18	<u>3</u>
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-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-l	Na	ESP	SS-I	NO3-N
1.31	1.07	6.4	40	3.8	4.2	152	41	26	11	46	30			116	116	57	0.1	2		
Sample	ID: E0	4	Reco	mmend	ations:		ime					Nutrie	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	storv:			rape, M		•	0.0	Note 1			80	0	0	0	0	0	0.5	;	Note: 18	
0.60 ton	•	3/2019		rape, M			0.0	Note 1)	80	0	0	0	0	0	0.5		Note: 18	
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
0.32	1.29	4.7	86	0.7	6.3	155	33	57	25	43	79	60	60	308	308	47	0.2	4		
Sample				ommenda			ime	<u> </u>					ents (lb/ac					Ť	Mo	re
			Crox				s/acre)	N	P20	O ₅	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	
Lime His	storv:			egetable	s. other	•	0.0	80-10			70	0	0	0	0	0	0		Note: 6	
0.30 ton	•	3/2019		oybean	,		0.0	0	0		10	0	0	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
0.56	1.30	3.4	80	0.7	6.0	183	70	52	18	43	120	82	82	102	102	79	0.1	3		
0.00	1.00	U. T	00	0.1	0.0	100	7.0	02	10	70	120	02	02	102	102	, ,	0.1	U		

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Sample II	D : G04	1	Reco	mmend	ations:	L	Lime					Nutrie	ents (lb/acı	re)					Moi	re
			Crop)		(ton	s/acre)	N	P2	O 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	tion
Lime Hist	tory:		1 - V	egetable	s, other		0.0	80-10	0 0)	160	0	0	0	0	0	0		Note: 6	
	-		2 - S	oybean			0.0	0	()	80	0	0	0	0	0	0		Note: 3	
Test Res	ults [un	its - W/V	in g/cm ³	; CEC an	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-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-l	Na	ESP	SS-I	NO ₃ -
	1.35	2.0	76	0.5	6.1	147	30	47	22	37	59	44	44	76	76	31	0.1	5		
Sample I	e ID: G06 Recommendations:				Lime					Nutrie	ents (lb/acı	re)					Моі	re		
	ple ID: G06 Recommendations: Lime Crop (tons/acre) N P2O5 K2O				Mg	S	Mn	Zn	Cu	В		Informat	tion							
Lime Hist	tory:		1 - S	oybean			0.4	0	C)	90	25	0	0	0	0	0		Note: 3	
			2 - V	egetable	s, other		0.0	80-10	0 1	0	180	\$	0	0	0	0	0		Note: 6	Note:
Test Res	ults [un	its - W/V	in g/cm ³	; CEC an	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 -
0.18	1.36	1.8	62	0.7	5.3	111	23	42	13	31	42	35	35	29	29	35	0.1	6		
Sample II	D : G0	7	Reco	mmend	ations:	L	Lime					Nutrie	ents (lb/aci	re)					Moi	re
			Crop)		(ton	s/acre)	N	P2	O 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	tion
Lime Hist	tory:		1 - S	oybean			0.4	0	C)	90	25	0	0	0	0	0		Note: 3	
			2 - V	egetable	s, other		0.0	80-10	0 ()	180	\$	0	0	0	0	0		Note: 6	Note:
Test Res	ults [un	its - W/V	in g/cm ³	; CEC an	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 -l
	1.31	1.8	61	0.7	5.3	121	25	43	11	26	42	35	35	52	52	33	0.1	6		
Sample II	D : H02	2	Reco	mmend	ations:		_ime						ents (lb/acı	re)					Моі	
			Crop			(ton	ıs/acre)	N	P2	O 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	tion
Lime Hist	tory:			oybean			0.3	0	C)	110	0	0	0	0	0	0		Note: 3	
			2 - S	weetpota	ato		0.0	60-90) ()	180	0	0	0	0	0	0.0		Note: 6	
Test Res	ults [un	its - W/V	in g/cm ³	; CEC an	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-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO ₃ -

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Sample	ID: MC)1	Reco	mmend	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	storv:		1 - S	oybean			0.5	0	0)	100	0	0	0	0	0	0		Note: 3	
			2-S	weetpota	ito		0.0	60-90) 0)	160	0	0	0	0	0	0.0		Note: 6	
Test Re	sults [uɪ	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
0.32	1.40	2.2	59	0.9	5.3	193	22	41	13	28	76	56	63	74	74	56	0.1	5		
Sample	ID: MC)2	Reco	mmend	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)	30	0	0	0	0	0	0		Note: 3	
0.30 ton	s/acre; 3	3/2019	2 - S	weetpota	ito		0.0	60-90	0)	40	0	0	0	0	0	0.0		Note: 6	
Test Re	sults [uɪ	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-I	Na	ESP	SS-I	NO ₃ -N
0.41	1.39	2.7	72	8.0	5.8	234	59	41	19	34	90	64	71	98	98	71	0.1	4		
Sample	ID: MC)3	Reco	mmend	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	storv:		1 - S	oybean			0.0	0	0		40	0	25	0	0	0	0		Note: 3	
0.30 ton	•	3/2019	2-S	weetpota	ito		0.0	60-90) 0)	60	0	25	0	0	0	0.0		Note: 6	
Test Res	sults [uɪ	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-l	Zn-Al	Cu-l	Na	ESP	SS-I	NO ₃ -N
0.27	1.33	2.1	68	0.7	5.7	167	49	38	18	24	70	52	59	99	99	51	0.1	5		
Sample	ID: G0	8	Reco	mmend	ations:	L	ime					Nutri	ents (lb/ac	re)					Мо	re
•			Crop				s/acre)	N	P20	O ₅	K ₂ O	Mg	S	Mn	Zn	Cu	В	\neg	Informa	
Lime His	story:		1-8	trawberry	/, E		0.3	30-60	0)	110	25	25	0	0	0	1.0)	Note: 18	<u>8</u>
			2 - S	oybean			0.0	0	0)	100	\$	25	0	0	0	0		Note: 3	Note: S
Test Re	sults [uɪ	nits - W/V	/ in g/cm³	; CEC an	ıd Na in n	neq/100 c	m ³ ; NO ₃ -	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
0.18	1.40	1.7	63	0.6	5.4	136	22	43	14	17	57	44	44	136	136	49	0.1	6		

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Sample	ID: G0	9	Reco	mmenda	ations:	L	ime					Nutrie	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:			oybean		•	0.0	0	0		60	0	25	0	0	0	0		Note: 3	
0.40 tons	-	3/2019		egetables	s. other		0.0	80-10	0 0)	140	0	25	0	0	0	0		Note: 6	
						// 00														
	_		in g/cm ³ ;			-		_	-				Soil Class							
НМ%	W/V	CEC	BS%	Ac	рН	P-I	K-I	Ca%	Mg%	S-I	Mn-I		Mn-Al2	Zn-l	Zn-Al	Cu-I	Na	ESP	SS-I	NO ₃ -l
0.22 Sample	1.38	2.1	73	0.6	6.0	160	39 _ime	42	22	14	88	63	63 ents (lb/ac	84	84	42	0.1	5	Moi	
Sample	וט: פו	U		mmenda	ations:		₋ıme ıs/acre)		Des		1/-0				7	0				
			Crop			(ton	•	N	P20		K2O	Mg	S	Mn	Zn	Cu	В		Informat	ion
Lime His	story:		I	oybean			0.3	0	0		110	25	25	0	0	0	0		Note: 3	
			2 - V	egetables	s, otner		0.0	80-10	0 0)	200	\$	25	0	0	0	0		Note: 6	Note:
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	: 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-I	Na	ESP	SS-I	NO ₃ -I
0.22	1.42	1.6	60	0.6	5.4	165	16	41	14	20	103	72	72	86	86	45	0.1	6		
Sample	ID : G1	1	Reco	mmenda	ations:	L	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	ion
Lime His	story:			ardwood.	. M	•	0.0	80-12			30	0			0	0	0		Note: 1	
				ardwood			0.0	80-12)	30	0			0	0	0		Note: 1	
Tost Ros	sulte fur	nite - W/V	in g/cm ³	CFC an	d Na in n	nea/100 c	m³. NΩ3-	N in ma/	dm ³ 1·				Soil Class	: Mine	ral					
HM%	W/V	CEC	BS%	Ac	рН	P-I	K-I	Ca%	Mg%	S-I	Mn-l		Mn-Al2	Zn-I	Zn-Al	Cu-l	Na	ESP	SS-I	NO3-I
				-	•	76			_	_		WIII-AII	WIII-AIZ					_	00-1	1403-1
0.13 Sample	1.32	1.7	62	0.6 mmenda	5.5		24 Lime	40	16	26	31	Nutria	ents (lb/ac	40	40	27	0.1	6	Moi	
Sample	ID. G	_			ations.		_		Des		1/-0		•		7	0				
			Crop		N 4	(ton	s/acre)	N	P20		K2O	Mg	S	Mn	Zn	Cu	В		Informat	
Lime His	story:		1 '	ardwood,			0.0	80-12			10	0			0	0	0		Note: 1	_
			2 - H	ardwood.	, IVI		0.0	80-12	0 0)	10	0			0	0	0		Note: 1	L
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	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 -l
0.18	1.30	2.3	74	0.6	6.0	97	35	48	19	30	43			69	69	28	0.1	4		

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Sample	ID: M0)5	Reco	ommenda	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	ion
Lime His	story:		1 - V	egetable	s, other		0.0	80-10	0 0)	110	0	0	0	0	0	0		Note: 6	
0.30 tons	s/acre; 3	3/2019	2 - S	oybean			0.0	0	C)	40	0	0	0	0	0	0		Note: 3	
Test Res	sults [ur	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-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO ₃ -N
0.60	1.33	3.0	76	0.7	6.0	179	51	51	17	28	89	63	63	111	111	74	0.1	3		
Sample	le ID: M06 Recommendation				ations:		ime					Nutri	ents (lb/ac	re)					Moi	re
	e ID: M06 Recommendations: Crop					(ton	s/acre)	N	P2	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 30	0	150	0	25	0	0	0	0		Note: 6	
0.50 tons	s/acre; 3	3/2019	2 - S	oybean			0.0	0	C)	70	0	25	0	0	0	0		Note: 3	
Test Res	sults [ur	nits - W/V	/ in g/cm³	; CEC an	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-I	Na	ESP	SS-I	NO3-N
0.22	1.38	1.9	73	0.5	6.0	96	33	44	20	23	52	41	41	57	57	37	0.1	5		
Sample	ID : M0)7	Reco	ommenda	ations:		ime					Nutri	ents (lb/ac	re)					Mo	re
			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	80-10	0 0)	190	0	25	0	0	0	0		Note: 6	
0.40 tons	s/acre; 3	3/2019	2 - S	oybean			0.0	0	C)	100	0	25	0	0	0	0		Note: 3	
Test Res	sults [ur	nits - W/V	/ in g/cm³	; CEC an	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-l	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO3-N
0.32	1.40	2.2	73	0.6	6.1	183	21	46	22	23	67	49	49	76	76	59	0.1	5		
Sample	ID: M0	8	Reco	ommenda	ations:	L	ime					Nutri	ents (lb/ac	re)					Moi	re
			Crop)		(ton	s/acre)	N	P2	O 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	ion
Lime His	story:		1 - V	egetable	s, other		0.3	80-10	0 30	0	130	0	25	0	0	0	0		Note: 6	
	_		2 - S	oybean			0.0	0	C)	50	0	25	0	0	0	0		Note: 3	
Test Res	sults [ur	nits - W/V	/ in g/cm³	; CEC an	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-l	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-l	Na	ESP	SS-I	NO ₃ -N
0.18	1.39	1.8	66	0.6	5.6	99	44	37	16	23	45	37	37	45	45	40	0.1	6		
0.10	1.00	1.0		0.0	0.0			<u> </u>	10		10	01	0,	10	10		J. 1			

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Sample	ID: M0	9	Reco	ommenda	ations:	L	_ime					Nutrie	ents (lb/ac	re)					Моі	e e
			Crop)		(ton	s/acre)	N	P2	O 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	ion
Lime His	story:		1 - V	egetable	s, other		0.3	80-10	0 0)	110	0	0	0	0	0	0		Note: 6	
			2 - S	oybean			0.0	0	()	40	0	0	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	: 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
0.18	1.32	2.0	69	0.6	5.7	125	52	41	15	37	69	51	51	72	72	68	0.1	5		
Sample	PID: M11 Recommendations: Lin				_					Nutrie	ents (lb/ac	re)					Moi	·e		
	le ID: M11 Recommendations: Lime Crop (tons/acre) N					P2	O 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	ion			
Lime His	story:		1 - V	egetable	s, other		0.3	80-10	0 1	0	120	0	0	0	0	0	0		Note: 6	
			2 - S	oybean			0.0	0	()	50	0	0	0	0	0	0		Note: 3	
Test Res	sults [un	nits - W/V	' in g/cm ³	; 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	NO3-N
0.22	1.37	1.9	68	0.6	5.6	110	47	39	17	39	50	40	40	50	50	43	0.1	5		
Sample	ID : M1	2	Reco	ommenda	ations:	L	_ime					Nutrie	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 His	story:		1 - V	egetable	s, other		0.0	80-10	0 0)	40	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 [ur	nits - W/V	' in g/cm ³	; 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-N
0.27	1.25	2.7	79	0.6	6.0	122	87	46	17	32	54	42	42	46	46	67	0.1	4		
Sample	ID : M1	4	Reco	ommenda	ations:	L	_ime					Nutrie	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 His	story:		1 - V	egetable	s, other		0.4	80-10	0 0)	170	0	25	0	0	0	0		Note: 6	
			2-S	oybean			0.0	0	()	80	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	: 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	1.37	1.8	59	0.7	5.3	135	28	35	17	21	52	41	41	35	35	45	0.1	6		
																		-		

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Sample	ID : M1	5	Reco	ommend	ations:	L	ime					Nutri	ents (lb/ac	re)					Мо	re
			Crop)		(tons	s/acre)	N	P ₂ C)5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informa	tion
Lime His	story:		1 - V	egetable	s, other		0.0	80-100	0		0	0	0	0	0	0	0		Note: 6	
	•		2-S	oybean			0.0	0	0		0	0	0	0	0	0	0		Note: 3	
Test Res	sults [ur	nits - W/V	in g/cm ³	; CEC an	d Na in n	neq/100 cı	m³; NO3-	N in mg/c	dm³]:				Soil Class	s: Mine	ral					
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
1.31	1.21	5.6	82	1.0	6.0	241	166	52	16	40	87	62	62	69	69	90	0.1	2		

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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-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