NCDA&CS Agronomic Division

Phone: (919) 733-2655

Website: www.ncagr.gov/agronomi/

Client: Horticultural Crops Research Station / Clinton

Advisor:

Report No.

FY19-SL023894

Soil Report

Mehlich-3 Extraction

Clinton, NC 28328

2450 Faison Hwy

Sampled County: Sampson

403047 Client ID:

Advisor ID:

Links to Helpful Information

Internal

Sampled: 11/01/2018 Received: 02/07/2019 Completed: 02/13/2019 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 ca		-											4 (11 (_						
Sample	ID : A0)1	Reco	mmend	ations:		.ime					Nutrie	ents (lb/acı	e)					Mor	е
			Crop)		(ton	s/acre)	N	P20) 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	ion
Lime His	story:		1 - V	egetable	s, other		0.0	80-100	0		80	0	25	0	0	0	0		Note: 6	
0.40 ton	s/acre; 3	3/2018	2 - C	orn, graiı	n		0.0	120 - 16	0 0		20	0	25	0	0	0	0		Note: 3	
Test Re	sults [uɪ	nits - W/V	/ in g/cm³	; CEC an	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-l	Na	ESP	SS-I	NO3-N
0.32	1.38	3.2	72	0.9	5.8	236	67	47	15	21	107	74	81	111	111	84	0.1	3		
Sample				mmend			ime	- 11			107		ents (lb/acı			<u> </u>	0.1	Ť	Mor	е
			Cror				s/acre)	N	P20) ₅	K ₂ O	Mg	s	Mn	Zn	Cu	В		Informat	-
Lime His	story:		1 - V	egetable	s. other	•	0.0	80-100	0		60	0	25	0	0	0	0		Note: 6	
			2 - C	orn, graii	n		0.0	120 - 16	0 0		0	0	25	0	0	0	0		Note: 3	
		nits - W/V	•			neq/100 c					0		25 Soil Class			0	0		Note: 3	
		nits - W/V	•		nd Na in n	neq/100 c		-N in mg/d	lm ³]:	S-I	0 Mn-I					O Cu-I	0 N a	ESP	Note: 3	NO3-N
Test Res	sults [ui	CEC	in g/cm³	; CEC an	nd Na in n pH	P-I	m³; NO3- K-I	-N in mg/d Ca%	m³]: Mg%	S-I	Mn-l	Mn-Al1	Soil Class Mn-Al2	: Mine	ral Zn-Al	Cu-l	Na	_		NO3-N
Test Re: HM% 0.18	sults [ur W/V 1.35	CEC 2.9	' in g/cm ³ BS% 75	; CEC an Ac 0.7	nd Na in n pH 5.8	P-I 149	m ³ ; NO3- K-I 79	-N in mg/d	lm ³]:			Mn-Al1 60	Soil Class Mn-Al2 67	: Mine Zn-I 77	ral			ESP 3	SS-I	
Test Res	sults [ur W/V 1.35	CEC 2.9	/ in g/cm ³ BS% 75 Reco	; CEC an Ac 0.7	nd Na in n pH 5.8	P-I 149	m ³ ; NO3- K-I 79 .ime	-N in mg/d Ca% 44	lm³]: Mg% 17	S-I 25	Mn-I 84	Mn-Al1 60 Nutrie	Soil Class Mn-Al2 67 ents (lb/aci	: Mine Zn-I 77	ral Zn-Al 77	Cu-l 71	Na 0.1	_	SS-I Mor	е
Test Res HM% 0.18 Sample	sults [ui W/V 1.35 ID: A0	CEC 2.9	/ in g/cm³ BS% 75 Reco	CEC and Ac 0.7	nd Na in n pH 5.8 ations:	P-I 149	m ³ ; NO3- K-I 79 .ime s/acre)	-N in mg/d Ca% 44	lm³]: Mg% 17	S-I 25	Mn-I 84 K2O	Mn-Al1 60 Nutrie	Soil Class Mn-Al2 67 ents (lb/acr	: Mine Zn-I 77 re) Mn	ral Zn-Al 77 Zn	Cu-l 71	Na 0.1	_	SS-I Mor Informat	е
Test Res HM% 0.18 Sample	sults [ui W/V 1.35 ID: A0 story:	2.9 23	75 Reco	CEC and Ac 0.7 commends of the	nd Na in n pH 5.8 ations:	P-I 149	m³; NO3- K-I 79 .ime s/acre)	N in mg/d Ca% 44 N 80-100	m³]: Mg% 17 P20	S-I 25	Mn-I 84 K2O 80	Mn-Al1 60 Nutrie Mg 0	Soil Class Mn-Al2 67 ents (lb/act	77 Te) Mn	77 Zn 0	Cu-I 71 Cu 0	Na 0.1 B	_	SS-I Mor Informat Note: 6	е
Test Res HM% 0.18 Sample	sults [ui W/V 1.35 ID: A0	2.9 23	75 Reco	CEC and Ac 0.7	nd Na in n pH 5.8 ations:	P-I 149	m ³ ; NO3- K-I 79 .ime s/acre)	-N in mg/d Ca% 44	lm³]: Mg% 17	S-I 25	Mn-I 84 K2O	Mn-Al1 60 Nutrie	Soil Class Mn-Al2 67 ents (lb/acr	: Mine Zn-I 77 re) Mn	ral Zn-Al 77 Zn	Cu-l 71	Na 0.1	_	SS-I Mor Informat	е
Test Res HM% 0.18 Sample Lime His	sults [ui W/V 1.35 ID: A0 story: s/acre; 3	2.9 23 3/2018	7 in g/cm ³ BS% 75 Recc Crop 1 - V 2 - S	CEC and O.7 ommends of the couple of the cou	pH 5.8 ations: s, other	P-I 149 L (tons	m³; NO3- K-I 79 .ime s/acre) 0.0 0.0	N in mg/d Ca% 44 N 80-100	m³]: Mg% 17 P20 0	S-I 25	Mn-I 84 K2O 80	Mn-Al1 60 Nutrie Mg 0 0	Soil Class Mn-Al2 67 ents (lb/act	77 re) Mn 0 0	77 Zn 0 0	Cu-I 71 Cu 0	Na 0.1 B	_	SS-I Mor Informat Note: 6	е
Test Res HM% 0.18 Sample Lime His	sults [ui W/V 1.35 ID: A0 story: s/acre; 3	2.9 23 3/2018	7 in g/cm ³ BS% 75 Recc Crop 1 - V 2 - S	CEC and O.7 ommends of the couple of the cou	pH 5.8 ations: s, other	P-I 149 L (tons	m³; NO3- K-I 79 .ime s/acre) 0.0 0.0	N in mg/d Ca% 44 N 80-100 0	m³]: Mg% 17 P20 0 0	S-I 25	Mn-I 84 K2O 80	Mn-Al1 60 Nutrie Mg 0	Soil Class Mn-Al2 67 ents (lb/acr S 20 20	77 re) Mn 0 0	77 Zn 0 0	Cu-I 71 Cu 0	Na 0.1 B	_	SS-I Mor Informat Note: 6	е
Test Res HM% 0.18 Sample Lime His 0.30 ton	sults [ui W/V 1.35 ID: A0 story: s/acre; 3	2.9 03 3/2018 nits - W/V	7 in g/cm ³ BS% 75 Recc Crop 1 - V 2 - S 7 in g/cm ³	CEC and O.7 ommends of the couple of the cou	pH 5.8 ations: s, other	P-I 149 L (ton:	m ³ ; NO3- K-I 79 .ime s/acre) 0.0 0.0 m ³ ; NO3-	N in mg/d Ca% 44 N 80-100 0	m³]: Mg% 17 P20 0	S-I 25 Ds	Mn-I 84 K2O 80 20	Mn-Al1 60 Nutrie Mg 0	Soil Class Mn-Al2 67 ents (lb/act S 20 20 Soil Class	: Mine Zn-I 77 Te) Mn 0 0 .: Mine	77 Zn 0 0 oral	Cu-I 71 Cu 0 0	Na 0.1 B 0 0	3	Mor Informat Note: 6 Note: 3	e ion



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.

NCDA&	CS Agro	nomic D	ivision	Pl	none: (91	9) 733-20	655	Webs	site: ww	w.ncag	ır.gov/agr	onomi/				R	Report No). F	Y19-SL0	23894
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Sample	ID : A0	4	Reco	ommenda	ations:	I	ime					Nutri	ents (lb/ac	re)					Mo	re
			Crop	p		(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) ()	60	0	25	0	0	0	0.5	;	Note: 6	
			2 - S	oybean			0.0	0	()	40	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-l	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO ₃ -I
0.18	1.32	2.7	72	8.0	5.7	203	50	46	17	19	89	70	63	89	89	59	0.1	4		
Sample	ID : A0	5	Reco	ommenda	ations:	L	_ime					Nutri	ents (lb/ac	re)					Mo	re
						(ton	•	N	P2	O 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	tion
Lime His	story:		1 - V	egetable:	s, other		0.5	80-10	0 0)	110	0	25	0	0	0	0		Note: 6	
			2 - S	oybean			0.0	0	()	40	0	25	0	0	0	0		Note: 3	
HM%	W/V	CEC	BS%	Ac	рН	P-I	K-I	Ca%	Mg%	S-I	Mn-l			Zn-I	Zn-Al	Cu-l	Na	ESP	SS-I	NO ₃ -
0.22	1.36	2.7	66	0.9	5.4	221	49	44	13	18	102	71	71	98	98	65	0.1	4		
Sample	ID : A0	6	Reco	ommenda	ations:		_ime					Nutrie	ents (lb/ac	re)					Moi	re
			Crop	р		(ton	s/acre)	N	P2	O 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	tion
Lime His	story:		1 - V	egetable:	s, other		0.4	80-10	0 0)	70	0	25	0	0	0	0		Note: 6	
			2 - C	orn, grair	า		0.0	120 - 1	60 ()	10	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	: 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 -l
0.36	1.32	3.6	72	1.0	5.6	331	72	48	14	23	137	92	99	185	185	169	0.1	3		
Sample	ID : A0	7	Reco	ommenda	ations:		_ime					Nutri	ents (lb/ac	re)					Mo	re
						(ton	•	N		O 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	tion
Lime His	story:		1 - V	egetable:	s, other)	100	0		0	0	0	0		Note: 6	
			2 - C	orn, grair	<u>1</u>		0.0	120 - 1	60 ()	40	0	25	0	0	0	0		Note: 3	
Test Res	Crop																			
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 -I
0.13	1.38	2.4	73	0.6	5.7	190	54	46	16	18	75	55	62	135	135	97	0.1	4		

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Sample	ID : A0	8	Reco	ommenda	ations:	l	_ime					Nutrie	ents (lb/ac	re)					Moi	re
			Crop)		(ton	s/acre)	N	P20) 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		80	0	25	0	0	0	0		Note: 6	
			2 - S	oybean			0.0	0	0)	20	0	25	0	0	0	0		Note: 3	
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-I	Na	ESP	SS-I	NO ₃ -N
0.13	1.31	2.8	73	0.8	5.8	138	65	41	20	18	65	49	49	117	117	54	0.1	4		
Sample	ID : A9		Reco	ommenda	ations:		ime					Nutrie	ents (lb/ac	re)					Moi	re
			Crop			(ton	s/acre)	N	P20) 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	ion
Lime His	•			egetables	s, other		0.0	80-10	0 0		70	0	25	0	0	0	0		<u>Note: 6</u>	
0.40 ton	s/acre; 3	3/2018	2 - S	oybean			0.0	0	0		20	0	25	0	0	0	0		Note: 3	
Test Re	sults [ur	nits - W/V	' in g/cm ³	; CEC an	ıd Na in m	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
0.18	1.32	2.9	71	0.8	5.7	137	69	40	18	19	68	51	51	73	73	59	0.1	3		
Sample	ID : A1	0	Reco	ommenda	ations:		ime					Nutrie	ents (lb/ac	re)					Mor	re
			Crop)		(ton	s/acre)	N	P20	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		140	0	25	0	0	0	0		Note: 6	
0.40 ton		3/2018	2 - C	orn, grair	n		0.0	120 - 1	60 0)	60	0	25	0	0	0	0		Note: 3	
Test Re	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-I	Na	ESP	SS-I	NO3-N
0.27	1.44	3.0	76	0.7	5.9	273	39	51	18	18	114	78	85	128	128	91	0.1	3		
Sample	ID: A1	1	Reco	ommenda	ations:		_ime					Nutrie	ents (lb/ac	re)					Moi	re
			Crop)		(ton	s/acre)	N	P20) 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		160	0	25	0	0	0	0		Note: 6	
			2 - C	orn, grair	n		0.0	120 - 1	60 0	١	80	0	25	0	0	0	0		Note: 3	
Test Re	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	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	1.45	2.3	76	0.6	6.0	163	29	48	21	22	67	50	57	84	84	79	0.1	4		
00		0		0.0	0.0						<u> </u>		<u> </u>	٠.	<u> </u>		J	<u> </u>		

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Sample	ID: A1:	2	Reco	ommenda	ations:	I	Lime					Nutrie	ents (lb/ac	re)					Mor	re
			Crop)		(ton	s/acre)	N	P20	D 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	tion
Lime His	story:		1 - V	egetable	s, other		0.4	80-10	0 0		120	0	25	0	0	0	0		Note: 6	
			2 - C	orn, grair	n		0.0	120 - 10	<u> </u>		50	0	25	0	0	0	0		Note: 3	
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	: 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 -I
0.18	1.37	2.8	67	0.9	5.6	169	45	41	17	20	73	54	61	96	96	51	0.1	4		
Sample	ID : S1	3	Reco	ommenda	ations:	_	Lime						ents (lb/ac	re)					Mor	re
			Crop			(ton	s/acre)	N	P20		K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	tion
Lime His	-			egetable	s, other		0.0	80-10	-		130	0	25	0	0	0	0		Note: 6	
0.40 ton	s/acre; 3	3/2018	2 - S	oybean			0.0	0	0		50	0	25	0	0	0	0		Note: 3	
Test Res	sults [ur	nits - W/V	in g/cm ³	; CEC an	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-I	Na	ESP	SS-I	NO ₃ -
0.18	1.37	3.0	77	0.7	6.0	162	44	47	23	18	73	54	54	57	57	39	0.1	3		
Sample	ID : B0	1	Reco	ommenda	ations:		_ime					Nutrie	ents (lb/ac	re)					Mor	re
			Crop)		(ton	s/acre)	N	P20) 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		180	0	25	0	0	0	0		<u>Note: 6</u>	
0.40 ton	s/acre; 3	3/2018	2 - S	oybean			0.0	0	0		100	0	25	0	0	0	0		Note: 3	
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	: 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 -
0.27	1.45	2.8	77	0.6	5.9	207	22	57	16	24	88	63	63	216	216	105	0.1	4		
Sample	ID: B0:	2	Reco	ommenda	ations:	_	Lime					Nutrie	ents (lb/ac	re)					Mor	re
			Crop			(ton	is/acre)	N	P20) 5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	tion
Lime His	-			egetable	s, other		0.3	80-10			140	0	0	0	0	0	0		<u>Note: 6</u>	
0.40 ton	s/acre; 3	3/2018	2 - S	oybean			0.0	0	0		60	0	0	0	0	0	0		Note: 3	
Test Res	sults [ur	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					
	14/0/	CEC	BS%	A =		ъ.	V I	0-0/	N# -: 0/	٠.				7	7 AI	01	NI -	FOR	00.1	NO ₃ -
НМ%	W/V	CEC	D3%	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	NU3-

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Sample	ID : B0	3	Reco	mmend	ations:	L	ime					Nutrie	ents (lb/ac	re)					Моі	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		120	0	0	0	0	0	0		Note: 6	
0.40 ton	s/acre; 3	3/2018	2 - S	oybean			0.0	0	C)	50	0	0	0	0	0	0		Note: 3	
Test Res	sults [ur	nits - W/V	' in g/cm ³	; CEC ar	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	NO ₃ -N
0.22	1.47	2.7	77	0.6	5.9	170	46	50	18	31	90	64	64	185	185	81	0.1	4		
ample	ID : B0	4	Reco	mmend	ations:		ime						ents (lb/ac	re)					Моі	
			Crop	-		(ton	s/acre)	N	P2		K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	ion
Lime His	story:			egetable	s, other		0.5	80-10			180	25	25	0	0	0	0		Note: 6	
			2 - S	oybean			0.0	0	C		90	\$	25	0	0	0	0		Note: 3	Note: 9
Test Res	sults [ur	nits - W/V	in g/cm ³	; CEC ar	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-l	Na	ESP	SS-I	NO3-N
0.22	1.40	2.0	62	8.0	5.2	126	24	44	12	18	67	50	50	123	123	66	0.1	5		
Sample	ID : B0	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	ion
Lime His	story:		1 - V	egetable	s, other		0.0	80-10	0 60)	160	0	0	0	0	0	0		Note: 6	
0.40 ton	s/acre; 3	3/2018	2 - S	oybean			0.0	0	C)	80	0	0	0	0	0	0		Note: 3	
Γest Res	sults [ur	nits - W/V	' in g/cm ³	; CEC ar	nd Na in m	neq/100 c	m³; NO₃-	·N in mg/	dm³]:				Soil Class	: Mine	eral					
HM%	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
0.09	1.46	2.1	79	0.4	6.0	79	31	45	26	46	52	41	41	56	56	49	0.1	5		
Sample	ID : B0	6	Reco	mmend	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
_ime His	-			egetable	s, other		0.0	80-10			130	0	0	0	0	0	0		Note: 6	
0.40 ton	s/acre; 3	3/2018	2 - S	oybean			0.0	0			50	0	0	0	0	0	0		Note: 3	
est Res	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-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO3-N
0.46	1.38	3.3	73	0.9	5.8	172	43	50	16	29	107	74	74	134	134	80	0.1	3		

NCDA&	CS Agro	nomic D	ivision	PI	none: (91	19) 733-26	555	Webs	site: wwv	w.ncag	ır.gov/agr	onomi/				R	Report No) . F	Y19-SL0	23894
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Sample	ID : B0	7	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	storv:		1 - V	egetable	s, other		0.0	80-10	0 0		170	0	25	0	0	0	0		Note: 6	
0.40 ton	•	3/2018	2 - S	oybean	,		0.0	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	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	3.2	73	0.9	5.8	141	28	49	19	14	47	38	38	50	50	35	0.1	3		
Sample	ID : C0	1	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-B	lueberry,	M		0.0	30-60	0		80	25	0		0	0	0		Note: 18	<u>8</u>
			2 - B	lueberry,	М		0.0	30-60	0	1	80	\$	0		0	0	0		Note: 18	8 <u>Note: \$</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-l	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO3-N
0.86	1.24	5.2	24	4.0	4.0	264	18	16	6	28	13			53	53	145	0.1	2		
Sample	ID : E0	1	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 - V	egetable	s, other		0.0	80-10	0 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	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
0.97	1.26	5.8	81	1.1	5.9	298	123	53	17	28	186	122	122	98	98	80	0.1	2		
Sample	ID : E0	2	Reco	ommend	ations:	L	.ime					Nutrie	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 His	storv:		1 - V	egetable	s, other		0.0	80-10	0 0		50	0	25	0	0	0	0		Note: 6	
			2 - S	oybean			0.0	0	0		0	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/	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
0.32	1.30	3.1	78	0.7	5.9	147	84	46	19	22	104	72	72	66	66	39	0.1	3		
									-			. –								

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Sample	D : E0	3	Reco	mmend	ations:	L	ime					Nutrie	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
_ime His	tory:		1 - S	weetpota	ito		0.0	60-90) ()	100	0	25	0	0	0	0.5		Note: 6	
0.40 tons	s/acre; 3	3/2018	2 - C	orn, grai	n		0.0	120 - 1	60 C)	60	0	25	0	0	0	0		Note: 3	
Test Res	ults [ur	nits - W/V	' in g/cm³	; CEC ar	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	NO ₃ -N
0.22	1.36	2.8	76	0.7	5.9	182	37	49	20	18	111	84	84	82	82	52	0.1	4		
Sample	D : E0	4	Reco	mmend	ations:		ime						ents (lb/ac	re)					Mo	
			Crop			(ton	s/acre)	N	P2		K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	
Lime His	tory:			rape, M			0.6	Note 1)	100	0	25	0	0	0	0.5		Note: 18	_
			2 - G	rape, M			0.0	Note 1	8 0)	100	0	25	0	0	0	0.5		Note: 18	<u>3</u>
Test Res	ults [ur	nits - W/V	' in g/cm³	; CEC ar	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
0.22	1.35	3.3	65	1.2	5.3	223	26	43	18	20	50	47	47	205	205	72	0.1	3		
Sample	D : F0	1	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	tory:		1-C	orn, grai	n		0.0	120 - 1	60 0)	20	0	25	0	0	0	0		Note: 3	
0.40 tons	s/acre; 3	3/2018	2 - V	egetable	s, other		0.0	80-10	0 0)	90	0	25	0	0	0	0		Note: 6	
Γest Res	ults [ur	nits - W/V	' in g/cm ³	; CEC ar	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	NO ₃ -N
0.18	1.35	2.9	81	0.6	6.0	206	62	56	14	22	86	69	62	66	66	101	0.1	3		
Sample	D : F0	2	Reco	mmend	ations:	L	ime					Nutrie	ents (lb/ac	re)					Mo	re
			Crop)		(ton	s/acre)	N	P2	O5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	tion
ime His	tory:		1 - S	oybean			0.0	0	0)	90	0	25	0	0	0	0		Note: 3	
.40 tons	s/acre; 3	3/2017	2 - C	orn, grai	n		0.0	120 - 1	60 0)	90	0	25	0	0	0	0		Note: 3	
est Res	ults [ur	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	1.41	2.0	82	0.4	6.3	161	26	57	19	12	90	60	67	63	63	91	0.1	5		
				-									-			-	-			

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Sample	ID : F0:	3	Reco	ommenda	ations:	L	ime					Nutrie	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 - S	weetpota	ito		0.0	60-90) 0)	120	0	25	0	0	0	0.5		Note: 6	
			2 - S	oybean .			0.0	0	C)	80	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-l	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-l	Na	ESP	SS-I	NO3-N
0.13	1.44	2.1	73	0.6	5.7	122	31	48	18	17	69	58	51	63	63	108	0.1	5		
Sample	ID : F0	4	Reco	ommend	ations:		ime					Nutrie	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 - S	weetpota	ito		0.0	60-90) 0)	160	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 [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	NO ₃ -N
0.13	1.43	2.0	70	0.6	5.6	182	22	52	13	16	99	76	69	114	114	208	0.1	5		
Sample	ID : F0	5	Reco	ommend	ations:		ime					Nutrie	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 - S	weetpota	ito		0.0	60-90) 0)	170	25	25	0	0	0	0.5		Note: 6	
			2 - V	egetable	s, other		0.0	80-10	0 0)	190	\$	25	0	0	0	0		Note: 6	Note: \$
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
0.13	1.42	1.9	70	0.6	5.6	150	19	52	13	15	119	88	81	63	63	57	0.1	5		
Sample	ID : F0	7	Reco	ommenda	ations:	L	ime					Nutrie	ents (lb/ac	re)					Moi	re
			Crop)		(ton	s/acre)	N	P2	O5	K ₂ O	Mg	S	Mn	Zn	Cu	В		Informat	ion
Lime His	story:		1-C	orn, graii	า		0.0	120 - 10	60 0)	50	0	25	0	0	0	0		Note: 3	
0.40 tons	s/acre; 3	3/2018	2 - S	oybean			0.0	0	C)	50	0	25	0	0	0	0		<u>Note: 3</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/	dm ³]:			<u> </u>	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	1.42	1.9	81	0.4	6.1	135	46	48	21	14	75	61	54	65	65	75	0.1	5		
U.L.		1.0	<u> </u>	U. 1	U. 1							٠.	<u> </u>				J. 1			

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Sample	ID : F0	8	Reco	ommend	ations:	L	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	story:		1-S	weetpota	ito		0.0	60-90) 0)	100	0	25	0	0	0	0.5	5	Note: 6	
			2 - V	egetable	s, other		0.0	80-10	0 1	0	140	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-l	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO3-N
0.13	1.37	1.9	75	0.5	5.9	115	38	48	17	17	63	55	48	59	59	62	0.1	5		
Sample	ID : F0	9	Reco	ommend	ations:		_					Nutri	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		0.0)	0	0	25	0	0	0	0.5	5	Note: 6	
			2 - V	egetable	s, other		0.0	80-10	0 2	0	50	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-l	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO3-N
0.27	1.33	3.3	77	0.8	5.8	107	84	47	17	22	101	78	71	64	64	88	0.1	3		
Sample	ID : F1	0	Reco	ommend	ations:	L	ime					Nutri	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) 0)	10	0	0	0	0	0	0.5	5	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	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	NO3-N
0.51	1.34	3.5	76	0.8	5.7	233	71	54	12	35	123	91	84	82	82	65	0.1	3		
Sample	ID: F1	1	Reco	ommend	ations:	L	.ime					Nutri	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		0.0	60-90) 0)	60	0	25	0	0	0	0.5	5	Note: 6	
			2 - V	egetable	s, other		0.0	80-10	0 0)	110	0	25	0	0	0	0		Note: 6	
Test Res	1 - Sweetpotato																			
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	1.45	2.1	77	0.5	5.9	174	50	52	13	25	75	62	55	107	107	41	0.1	5		

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Sample	ID : G0)1	Reco	mmend	ations:	Lim	ie					Nutri	ents (lb/ac	re)					Мо	re
			Crop)		(tons/a	icre)	N	P2O5	5	K ₂ O	Mg	S	Mn	Zn	Cu	В	3	Informa	tion
Lime His	story:		1 - V	egetable	s, other	0.	3	80-100	0		70	0	25	0	0	0	0)	Note: 6	
			2 - C	orn, graii	n	0.	0	120 - 160	0		10	0	25	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 cm ³	; NO3-	N in mg/dn	1 ³]:				Soil Class	s: Mine	eral					
HM%	W/V	CEC	BS%	Ac	рН	P-I	K-I	Ca% I	/lg%	S-I	Mn-l	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESF	SS-I	NO ₃ -N
0.51	1.35	3.9	73	1.0	5.7	203	70	50	14	24	163	108	115	138	138	94	0.1	3		

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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 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

B boron

BS% % CEC occupied by basic cations

Ca% % CEC occupied by calcium 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