Appendix 8.G Soil fertility analysis

CELL1 UNSPECIFIED 089074 CENTRE 00 03/03/00 5312 SOIL COUNTY ACRES FIELD SERIAL NO. DATE LAB NO.

AGRICULTURAL ANALYTICAL SERVICES LABORATORY COLLEGE OF AGRICULTURAL SCIENCES THE PENNSYLVANIA STATE UNIVERSITY UNIVERSITY PARK, PA 16802 (814 863-0841)

SOIL TEST REPORT FOR:

CAROLINE LOOP 209 MRL

ACIDITY BY 1000.

* RE-TEST NEXT YEAR

COPY SENT TO:

CAROLINE LOOP 209 MRL

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SOIL NUTRIENT LEVELS: Soil pH Phosphate (P_2O_5) 225 Potash (K_2O) 711 Magnesium (MgO) 1784 1b/A	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
RECOMMENDATIONS FOR: RENOVATING V	VITH LEGUMES (For other crops see ST 2 column: 6)	See Back
YIELD GOAL 1.0 TONS	(PER ACRE)	For Comments
LIMESTONE: NONE lb/A	Calcium Carbonate Equivalent	1,2
PLANT NUTRIENT NITROGEN (N) NEEDS: 0 lb/A	PHOSPHATE (P ₂ O ₅) POTASH (K ₂ O) MAGNESIUM (MgO) $\theta_{1b/A}$ $\theta_{1b/A}$	
* FOR ALFALFA AND BARLEY, THE PH G LIMESTONE RECOMMENDATION, IF ANY	GOAL IS 7.0. FOR ALL OTHER CROPS, THE	

100

* NOTE: THE HIGH CALCIUM LEVEL IN THIS SAMPLE INDICATES THE PROBABLE PRESENCE OF SOLUBLE CALCIUM. THEREFORE THE CEC AND PERCENT-SATURATIONS WERE CALCULATED USING A MAXIMUM EXCHANGABLE CALCIUM LEVEL OF 15 MEQ/100G

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* IF REGROWTH IS EXPECTED, APPLY 40 LBS OF NITROGEN/ACRE AFTER GRAZING

* IF MANURE WILL BE APPLIED, SEE ST-10 "USE OF MANURE"

LABORATOR'	Y RESULTS:									
9.5	98	0.0	0.76	4.6	36.3	20.4	3.7	22.7	73.5	
SOIL pH	P lb/A	ACIDITY	K	Mg	Ca	CEC	K	Mg	Ca	- 1
1 -		EXCHA	NGEABLE C	ATIONS	(meg/100	g)	%	SATURATI	ON	

OTHER TESTS:

03/03/00 5313 089073 CENTRE 00 CELL2 UNSPECIFIED
DATE LAB NO. SERIAL NO. COUNTY ACRES FIELD SOIL

AGRICULTURAL ANALYTICAL SERVICES LABORATORY COLLEGE OF AGRICULTURAL SCIENCES THE PENNSYLVANIA STATE UNIVERSITY UNIVERSITY PARK, PA 16802 (814 863-0841)

SOIL TEST REPORT FOR:

CAROLINE LOOP 209 MRL COPY SENT TO:

CAROLINE LOOP 209 MRL

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SOIL NUTRIENT	LEVELS:			ESSIVE
Soil pH	9.9		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXX
Phosphate		lb/A	XXXXXXXXXX	
Potash	$(K_2O) = 1741$	lb/A	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	CAXXXXX
Magnesium	(MgO) 1380	lb/A	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
RECOMMENDATI	IONS FOR RENOV	ATING	VITH LEGUMES (For other crops see ST 2 column: 3)	See Back
YIELD GO		TONS	(PER ACRE)	For Comment
		7 10110	(Thir Mora)	1,2
LIMESTONE:	NONE	lb/A	Calcium Carbonate Equivalent	·
	*			
	*			
PLANT NUTRI	тит пит	EN /N\	PHOSPHATE (P2O5) POTASH (K2O) MAGNESIUM (MGO)	
NEEDS:		1b/A	$70_{1b/A}$ $0_{1b/A}$ $0_{1b/A}$	5
BACCCACEC.				{
MESSAGES:				
				10
* EXCESSIVE	E PHOSPHATE AND/	OR POTAS	SH LEVEL.	10
* FOR ALFA!	LFA AND BARLEY,	THE PH G	COAL IS 7.0. FOR ALL OTHER CROPS, THE	
LIMESTON	E RECOMMENDATION	I, IF ANY	, IS TO BRING THE PH TO 6.5. TO ESTIMATE	1
THE LIME		PH / Q	FOR THESE CROPS, MULTIPLY THE EXCHANGEABLE	
				9
* IF MANUR	E WILL BE APPLIE	D, SEE S	ST-10 "USE OF MANURE"	"
* NOTE: TH	E HIGH CALCIUM L	EVEL IN	THIS SAMPLE INDICATES THE PROBABLE PRESENCE OF	
SOLUBLE	CALCIUM. THERES	ORE THE	CEC AND PERCENT-SATURATIONS WERE CALCULATED	
		· 2	Page 1000 Control of the Control of	1
* IF REGRO	WTH IS EXPECTED	, APPLY 4	40 LBS OF NITROGEN/ACRE AFTER GRAZING	
				1

LABORATOR'	Y RESULTS:	·							
9.9	46	0.0	1.86	3.6	53.8	20.5	9.0	17.5	73.1
SOIL PH	P 1b/A	ACIDITY	K	Mg	Ca	CEC	К	Mg	Ca
1		EXCHAI	GEABLE C	ATIONS	meq/100	g)	ફ	SATURATI	OM

03/03/00 5314 089076 CENTRE 00 CELL3 UNSPECIFIED
DATE LAB NO. SERIAL NO. COUNTY ACRES FIELD SOIL

AGRICULTURAL ANALYTICAL SERVICES LABORATORY COLLEGE OF AGRICULTURAL SCIENCES THE PENNSYLVANIA STATE UNIVERSITY UNIVERSITY PARK, PA 16802 (814 863-0841)

SOIL TEST REPORT FOR:

CAROLINE LOOP 209 MRL COPY SENT TO:

CAROLINE LOOP

209 MRL

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SOIL NUTRIENT LEVELS:	LOW OPTIMUM HIGH EXC	ESSIVE
Soil pH 9.9	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXX
Phosphate (P ₂ O ₅) 64 lb/A	XXXXXX	
Potash (K ₂ O) 711 1b/A	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
Magnesium (MgO) 1380 lb/A	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
		6 5 1
RECOMMENDATIONS FOR: RENOVATING W.	ITH LEGUMES (For other crops see ST 2 column: 3)	See Back For Comments
YIELD GOAL 1.0 TONS	(PER_ACRE)	For Comments
		1,2
LIMESTONE: NONE lb/A	Calcium Carbonate Equivalent	
*		
DIAME NICETEME NICEOCEN /N\ F	PHOSPHATE (P2O5) POTASH (K2O) MAGNESIUM (MGO)	
	110	5
NEEDS: 0 _{lb/A}	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	_
MESSAGES:		
WIESSACES.		
. FOR ALEALEA AND BARLEY THE DE CO	DAL IS 7.0. FOR ALL OTHER CROPS, THE	:
I THESTONE DECOMMENDATION, IF ANY	IS TO BRING THE PH TO 6.5. TO ESILMALE	
THE LIME REQUIREMENT FOR PH 7.0 I	FOR THESE CROPS, MULTIPLY THE EXCHANGEABLE	
ACIDITY BY 1000.	and the state of t	
* IF MANURE WILL BE APPLIED, SEE S	T-10 "USE OF MANURE"	9
MOTE THE HIGH CALCIUM LEVEL IN	THIS SAMPLE INDICATES THE PROBABLE PRESENCE OF	
SOLUBLE CALCIUM. THEREFORE THEM	CECHANDSPERCENT-SATURATIONS WERE CALCULATED	
USING A MAXIMUM EXCHANGABLE CATC	IUM LEVEL OF 15 MEQ/100G.	
* IF REGROWTH IS EXPECTED. APPLY 4	O LBS OF NITROGEN/ACRE AFTER GRAZING	
2, (Canon), 20 2, 22 23, (M. 2.1.)		

LABORATOR'	Y RESULTS:					· · · · · · · · · · · · · · · · · · ·			<u> </u>	
9.9	28	0.0	0.76	3.6	57.5	19.4	3.9	18.5	77.3	
SOIL PH	P lb/A	ACIDITY	K	Mg	Ca	CEC	K	Мg	Ca	
1		EXCHAN	IGEABLE C	ATIONS	(meq/100)) g)	8	SATURATI	ОИ	

03/03/00 5315 089075 CENTRE 00 CELL4 UNSPECIFIED
DATE LAB NO. SERIAL NO. COUNTY ACRES FIELD SOIL

AGRICULTURAL ANALYTICAL SERVICES LABORATORY COLLEGE OF AGRICULTURAL SCIENCES THE PENNSYLVANIA STATE UNIVERSITY UNIVERSITY PARK, PA 16802 (814 863-0841)

SOIL TEST REPORT FOR:

CAROLINE LOOP 209 MRL COPY SENT TO:

CAROLINE LOOP
209 MRL

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Soil pH 9.9 Phosphate (P ₂ O ₅) 5 1b/A X Potash (K ₂ O) 2321 1b/A 1b/A XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXX
RECOMMENDATIONS FOR: RENOVATING WITH LEGUMES (For other crops see ST 2 column: 3) YIELD GOAL 1 0 TONS (PER ACRE)	See Back For Comments
YIELD GOAL 1.0 TONS (PER ACRE)	
LIMESTONE: NONE 1b/A Calcium Carbonate Equivalent	1,2
•	
PLANT NUTRIENT NITROGEN (N) PHOSPHATE (P_2O_5) POTASH (K_2O) MAGNESIUM (MgO) NEEDS: $\begin{array}{ c c c c c c c c c c c c c c c c c c c$	5
* EXCESSIVE PHOSPHATE AND/OR POTASH LEVEL.	10
* FOR ALFALFA AND BARLEY, THE PH GOAL IS 7.0. FOR ALL OTHER CROPS, THE LIMESTONE RECOMMENDATION, IF ANY, IS TO BRING THE PH TO 6.5. TO ESTIMATE THE LIME REQUIREMENT FOR PH 7.0 FOR THESE CROPS, MULTIPLY THE EXCHANGEABLE ACIDITY BY 1000.	
* IF MANURE WILL BE APPLIED, SEE ST-10 "USE OF MANURE"	9
* NOTE: THE HIGH CALCIUM LEVEL IN THIS SAMPLE INDICATES THE PROBABLE PRESENCE OF SOLUBLE CALCIUM. THEREFORE THE CEC AND PERCENT-SATURATIONS WERE CALCULATED USING A MAXIMUM EXCHANGABLE CALCIUM LEVEL OF 15 MEQ/100G.	
* IF REGROWTH IS EXPECTED, APPLY 40 LBS OF NITROGEN/ACRE AFTER GRAZING	

LABORATOR	Y RESULTS:			······					
9.9	2	0.0	2.48	5.1	75.0	22.6	10.9	22.5	66.3
SOIL pH	P 1b/A	ACIDITY	K	Mg	Ca	CEC	K	Mg	Ca
		EXCHA	NGEABLE C	ATIONS	(meq/100	g)	%	SATURATI	ON