

Appendix 8.G

Soil fertility analysis

03/03/00	5312	089074	CENTRE	00	CELL1	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	EXCESSIVE
Soil pH	9.5		XX	XX	XX	XX
Phosphate (P ₂ O ₅)	225	1b/A	XX	XX	XX	XX
Potash (K ₂ O)	711	1b/A	XX	XX	XX	XX
Magnesium (MgO)	1784	1b/A	XX	XX	XX	XX

RECOMMENDATIONS FOR: *RENOVATING WITH LEGUMES* (For other crops see ST 2 column: 6)
 YIELD GOAL 1.0 TONS (PER ACRE)

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 For Comments
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LIMESTONE: NONE 1b/A Calcium Carbonate Equivalent

PLANT NUTRIENT NEEDS:

NITROGEN (N)	PHOSPHATE (P ₂ O ₅)	POTASH (K ₂ O)	MAGNESIUM (MgO)
0 1b/A	0 1b/A	0 1b/A	0 1b/A

MESSAGES:

- * 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"
- * RE-TEST NEXT YEAR
- * 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 EXCHANGEABLE CALCIUM LEVEL OF 15 MEQ/100G.
- * IF REGROWTH IS EXPECTED, APPLY 40 LBS OF NITROGEN/ACRE AFTER GRAZING

9

LABORATORY 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
EXCHANGEABLE CATIONS (meq/100 g)							% SATURATION		

OTHER TESTS:

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

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SOIL NUTRIENT LEVELS:		LOW	OPTIMUM	HIGH	EXCESSIVE
Soil pH	9.9	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Phosphate (P ₂ O ₅)	106 lb/A	XXXXXXXXXXXX			
Potash (K ₂ O)	1741 lb/A	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Magnesium (MgO)	1380 lb/A	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXX		

RECOMMENDATIONS FOR: *RENOVATING WITH LEGUMES* (For other crops see ST 2 column: 3)
 YIELD GOAL 1.0 TONS (PER ACRE)

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For Comments

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LIMESTONE: NONE 1b/A Calcium Carbonate Equivalent

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PLANT NUTRIENT NEEDS: NITROGEN (N) PHOSPHATE (P₂O₅) POTASH (K₂O) MAGNESIUM (MgO)

0 lb/A
 70 lb/A
 0 lb/A
 0 lb/A

5

MESSAGES:

- * 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 EXCHANGEABLE CALCIUM LEVEL OF 15 MEQ/100G.
- * IF REGROWTH IS EXPECTED, APPLY 40 LBS OF NITROGEN/ACRE AFTER GRAZING

LABORATORY RESULTS:

9.9	46	0.0	1.86	3.6	53.8	20.5	9.0	17.5	73.1
SOIL pH	P lb/A	ACIDITY	K	Mg	Ca	CEC	K	Mg	Ca
EXCHANGEABLE CATIONS (meq/100 g)							% SATURATION		

OTHER TESTS:

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

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SOIL NUTRIENT LEVELS:		LOW	OPTIMUM	HIGH	EXCESSIVE
Soil pH	9.9	XX			
Phosphate (P ₂ O ₅)	64 lb/A	XX			
Potash (K ₂ O)	711 lb/A	XX			
Magnesium (MgO)	1380 lb/A	XX			

RECOMMENDATIONS FOR: RENOVATING WITH LEGUMES (For other crops see ST 2 column: 3)

YIELD GOAL: 1.0 TONS (PER ACRE)

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LIMESTONE: NONE lb/A Calcium Carbonate Equivalent

PLANT NUTRIENT NEEDS:

NITROGEN (N)	PHOSPHATE (P ₂ O ₅)	POTASH (K ₂ O)	MAGNESIUM (MgO)
0 lb/A	110 lb/A	0 lb/A	0 lb/A

5

MESSAGES:

- * 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"
- * 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

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LABORATORY RESULTS:									
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	Mg	Ca
EXCHANGEABLE CATIONS (meq/100 g)							% SATURATION		

OTHER TESTS:

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

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SOIL NUTRIENT LEVELS:		LOW	OPTIMUM	HIGH	EXCESSIVE
Soil pH	9.9	XX	XX	XX	XX
Phosphate (P ₂ O ₅)	5 lb/A	X			
Potash (K ₂ O)	2321 lb/A	XX	XX	XX	XX
Magnesium (MgO)	1956 lb/A	XX	XX	XX	XX

RECOMMENDATIONS FOR: RENOVATING WITH LEGUMES (For other crops see ST 2 column: 3)

YIELD GOAL 1.0 TONS (PER ACRE)

See Back
For Comments

LIMESTONE: NONE 1b/A Calcium Carbonate Equivalent

1, 2

PLANT NUTRIENT NEEDS: NITROGEN (N) PHOSPHATE (P₂O₅) POTASH (K₂O) MAGNESIUM (MgO)

0 lb/A
 170 lb/A
 0 lb/A
 0 lb/A

5

MESSAGES:

- * 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

LABORATORY RESULTS:

9.9	2	0.0	2.48	5.1	75.0	22.6	10.9	22.5	66.3
SOIL pH	P lb/A	ACIDITY	K	Mg	Ca	CEC	K	Mg	Ca
EXCHANGEABLE CATIONS (meq/100 g)						% SATURATION			

OTHER TESTS: