



MOWERS
SOIL TESTING PLUS, INC.
FERTILITY AND PEST MANAGEMENT

117 EAST MAIN STREET
P.O. BOX 540
TOULON, IL 61483-0540
PHONE (309) 286-2761
1-800-354-8197
FAX (309) 286-6251

Fertility Management Report

Bill Smedley
South Farm
February 23, 2006



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March 29, 2006

Bill Smedley
R R 1 Box 99
Somewhere, IL 60000-

REF: Fertility Management Report

Thank you for your recent soil testing order. Your enclosed Fertility Management Report is one of the most important management tools you can use in your farming operation. By fine tuning your Fertility Management Plan, you will reap the benefits of your Soil Test through increased crop yields and better fertilizer efficiency.

Your Fertility Management Report contains a Laboratory Analysis Sheet showing your fertility levels at each sample site, Fertilizer Recommendations based on your cropping intentions and yield goals, and Colored Maps depicting areas of excessive, adequate, or deficient fertility levels.

Please understand there are subtle, or even some major differences within each field. These differences are shown in detail on a sample by sample basis in this report. The Fertility Recommendations are for no less than the amount required to keep the soil test readings at the present levels. When build-up fertility is required, Build-up Fertility Recommendations are divided over a four year period of time and are added into the Fertility Recommendations. For a quick reference, use the General Fertilizer Recommendations. If you want to make detailed adjustments, we urge you to study the full report before making any decisions on fertilizer or limestone applications.

If you have any questions regarding this report and/or our fertilizer recommendations, please call our office at 309/286-2761 or 800/354-8197. Any of our staff agronomists will be happy to assist you.

Thank you again for your order. We sincerely appreciate working with you.

Sincerely,

Randy Alvey
President, Mowers Soil Testing PLUS, Inc.

MOWERS SOIL TESTING PLUS, INC.

Client ID: 4479
Prepared for: Bill Smedley

Order ID: 196540
Farm Name: South Farm

FACTUAL INFORMATION

Legal Description / Sampling Information

Legal Description: PARTS

Section: 23

Range: 5E

Township: 15N

Township Name: Camp Creek

County: Henry

State: IL

Soil Acidity is measured in pH units. A Water pH below 7.0 indicates an acid condition. A Water pH of 7.0 means the soil is neutral, while a Water pH over 7.0 indicates alkalinity. The table below shows the recommended Water pH ranges for different cropping systems.

Grain System

6.3 to 6.8

Forage System

6.5 to 7.0

When your pH level is lower than the recommended level, nutrients become less available, lowering yield. Limestone neutralizes acid, thereby raising the Water pH. Limestone then allows you to adjust the Water pH of the soil and increase yields.

Obtaining the correct Water pH level is the most important result of fertility management. Limestone requirements are based on the cation exchange capacity of the soil. The cation exchange capacity of your farm is listed on the Laboratory Analysis Sheet for each sample.

Phosphorus build-up requirements are based on the phosphorus supplying ability of the soil. Your farm is located in the phosphorus region listed on the Laboratory Analysis Sheet. The table below shows the recommended P1 test for the different phosphorus supplying regions of the state.

Low Phosphorus Region

50 to 80 Lbs

Medium Phosphorus Region

45 to 75 Lbs

High Phosphorus Region

40 to 70 Lbs

Phosphorus build-up requirements are recommended over a four year program and should be followed if you own the property or have a long term lease on the property. These recommendations are made in addition to the phosphorus required for crop removal.

Potassium build-up requirements are based on the cation exchange capacity of the soil. The cation exchange capacity of your farm is listed on the Laboratory Sheet for each sample. The table below shows the recommended K test for different cation exchanges ranges.

CEC 35+ (E Class Soil)

350 to 430 Lbs

CEC 24 to 35 (A Class Soil)

350 to 430 Lbs

CEC 16 to 24 (B Class Soil)

320 to 400 Lbs

CEC 8 to 16 (C Class Soil)

290 to 370 Lbs

CEC 0 to 8 (D Class Soil)

260 to 340 Lbs

Potassium build-up requirements are recommended over a four year program and should be followed if you own the property or have a long term lease on the property. These recommendations are made in addition to the potassium required for crop removal.



MOWERS
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LABORATORY ANALYSIS AND RECOMMENDATION REPORT

Special Report For: Bill Smedley
 Samples Submitted by: Bill Smedley
 R R 1 Box 99
 Somewhere, IL 60000-

Order No: 196540
 Client ID: 4479
 Farm Name: South Farm
 Field Name: South
 FieldAcres: 25

Sample	Water pH	Buffer pH	Pounds Per Acre				Percent	Parts per Million							dS/m	Percent Saturation				meq/100g
			Phosphorus	Potassium	Calcium	Magnesium	Organic Matter	Sulfur	Zinc	Manganese	Boron	Iron	Copper	Sodium	Soluble Salts	Ca	Mg	K	H	CEC
1	5.8	6.8	46	468	5340	660	3.2									60.8	12.5	2.7	24.0	22.0
2	5.8	6.8	88	388	4370	580	3.3									60.0	13.3	2.7	24.0	18.2
3	6.2	6.8	72	380	4330	500	3.5									67.9	13.1	3.1	16.0	15.9
4	7.3	7.5	42	422	5480	1250	3.7									70.4	26.8	2.8	0.0	19.4
5	6.5	7.1	62	422	3660	880	3.2									61.6	24.7	3.6	10.0	14.8
6	6.5	7.1	36	366	3560	770	3.2									63.7	23.0	3.4	10.0	14.0
7	6.1	6.7	28	288	3650	1450	2.8									48.2	31.9	1.9	18.0	18.9
8	5.9	6.9	56	322	4210	300	3.4									67.4	8.0	2.6	22.0	15.6
9	6.6	7.1	68	364	5000	660	3.7									73.2	16.1	2.7	8.0	17.1
10	6.1	6.7	56	364	5330	490	3.1									69.0	10.6	2.4	18.0	19.3
Field Median	6.2	6.8	56	374	4350	660	3.3									65.5	14.7	2.7	17.0	17.6

	Field Median	Fertility Level					Fertilizer Recommendations in pounds per acre	
		V Low	Low	Medium	High	V High		
Water pH	6.2	████████					Intended Crop Yield Goal <i>N - P₂O₅ - K₂O</i> <i>N - P₂O₅ - K₂O</i>	
Phosphorus	56	██████████						
Potassium	374	██████████						
Limestone Recommendations							Crop Removal IL	
**TOTAL REQUIRED								
Credits:								
**ADJUSTED RECOMMENDATIONS								

CONVERSIONS: PPM = Lbs./Acre / 2 or Lbs./Acre = PPM x 2
 Previous Crop Soybean Previous Yield: 0 Bu/Ac

Optimum Ranges:
 Water Ph: 6.3 - 6.8
 Phosphorus: 40.0 - 70.0
 Potassium: 320.0 - 400.0

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Client ID: 4479
Prepared for: Bill Smedley

OrderID: 196540
FarmName: South Farm
FieldName: South

BUILD-UP FERTILITY RECOMMENDATIONS TABLE

Below are the actual Phosphorus units (Lbs P2O5/Acre) and the actual Potassium (Lbs K2O/Acre) recommended for fertility build-up for each individual sample site. The amount shown should be applied each year for the next four years if you wish to spot fertilize the field on the basis of actual test results. A zero indicates no build-up fertility is needed because the soil test readings are at or above the recommended levels. The lime recommendation is the total limestone requirement over the four year program and may be applied in one or more applications.

Sample Number	Lime Tons/Ac	Phosphorus <i>Lbs(P₂O₅)/ Ac</i>	Potassium <i>Lbs(K₂O)/ Ac</i>	Notes
1	3.3	0	0	
2	3.3	0	0	
3	1.0	0	0	
4	0.0	0	0	
5	0.0	0	0	
6	0.0	9	0	
7	1.6	27	32	
8	2.2	0	0	
9	0.0	0	0	
10	1.6	0	0	
Average	1.3	0	0	

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YOUR FERTILITY RECOMMENDATIONS OPTIONS

Adjust the limestone recommendations for your tillage practices.

Build-up phosphorus and potassium can be applied each year for four years or the total amount needed for build-up can be applied at one time (4 times the amount shown in the Build-up Fertility Recommendation Table for one year).

The Fertilizer Recommendations are based on yearly applications. If you fertilize for more than one crop at a time, simply add the Fertilizer Recommendations together for the years of these crops.

RETEST IN FOUR YEARS

Agronomist: *Due Dorsey*