

# Agri Analysis, Inc.

# Soil Testing

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The goal of soil fertility management is to create soil chemical conditions that encourage plant growth and supply required nutrients in the amounts and at the times they are most needed. Liming materials and plant nutrients may be added to the soil in many forms and can be done so in a way that maximizes the economic benefits of nutrients while minimizing any environmental impact. The ways in which crops respond to these applications often are different because some soils have inherent physical limitations to plant growth. Soil testing is the best guide to soil fertility.

A soil test is no better than the care given to taking samples. Follow these guidelines for taking soil samples. It is very important to completely fill out the soil test informational forms provided that goes to **Agri Analysis, Inc.** with the sample. Mailing kits for submitting samples to **Agri Analysis, Inc.** are available free of charge.

## GUIDELINES FOR TAKING SOIL SAMPLES

1. Take cores from at least 15 spots randomly over the field.
2. Sample between rows. Avoid old fence-rows, dead furrows, and or other spots that do not represent the field being sampled.
3. Take separate samples from problem areas
4. In cultivated fields, sample to plow layer depth.
5. Sample permanent pastures to a 3 to 4 inch depth.
6. Collect samples in a clean container.
7. Mix the sample, remove any stones, and roots.
8. Put in soil bag provided and clearly identify.
9. Complete the soil informational sheet provided.
10. Send to **Agri Analysis, Inc.**



# Soil Analysis Report

**CUSTOMER / INVOICE TO:**  
Your Company Name  
& Address printed here

**INVOICE #** 89079  
**RECEIVED** Nov 18, 2004  
**REPORTED** Dec 21, 2004

**GROWER:** Name & Address

**SAMPLED BY** Salesman's name

### FIELD DATA

Your Field I.D.	Acres	Lab Number	Last Crop Grown	Next Crop	Yield Goal
W2	1	13113	CORN GRAIN	SOYBEANS GRAIN	60 BU
W3	1	13114	WHEAT GRAIN	WHEAT GRAIN	80 BU
W4	1	13115	CORN GRAIN	SOYBEANS GRAIN	60 BU
W5	1	13116	CORN GRAIN	CORN GRAIN	150 BU

### NUTRIENT REMOVAL

Nutrient Removal of Next Crop		
Nitrogen	P2O5	K2O
230	70	80
120	80	140
230	70	80
160	60	50

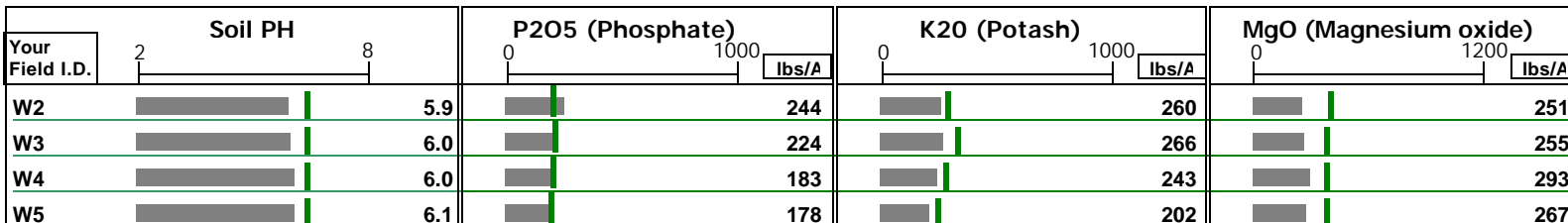
### ADDITIONAL NUTRIENTS REQUIRED

LIMESTONE lbs/acre	NITROGEN lbs/acre	P2O5 lbs/Acre	K2O lbs/Acre	MgO lbs/Acre
2000	20	0	40	160
2000	30	0	80	130
2000	20	30	50	110
2000	160	20	50	130

### LABORATORY DATA

Your Field I.D.	CEC	Acidity	SOIL pH	SMP Buffer	% O.M.	Lbs/A - % Saturation (K, Mg, Ca)			Phos. lbs/A	P2O5 lbs/A	K2O lbs/A	MgO lbs/A	(Cu) ppm	(Fe) ppm	(Mn) ppm	(Zn) ppm	(B) ppm	(SO4) ppm	(Na) ppm
						POTASSIUM	MAGNESIUM	CALCIUM											
W2	6.9	2.41	5.9	6.74	1.3	216 (4%)	157 (9.5%)	1424 (51.6%)	106	244	260	251	0.9	136.7	191.5	2.7	0.20	19.2	
W3	6.5	1.8	6.0	6.79	1.6	221 (4.4%)	160 (10.2%)	1492 (57.4%)	97	224	266	255	0.9	135.8	208.4	2.7	0.24	19.8	
W4	6.6	1.43	6.0	6.82	0.8	203 (3.9%)	183 (11.6%)	1690 (64%)	79	183	243	293	0.8	130.9	171.9	1.9	0.20	19.3	
W5	6.6	1.43	6.1	6.82	1.2	168 (3.3%)	167 (10.5%)	1730 (65.5%)	77	178	202	267	0.9	125.7	172.1	2.1	0.23	17.0	

### TRACE MINERALS



**Trace Mineral Ranges**

Cu: 0.5-2.0      Fe: 12-50  
Mn: 15-45      Zn: 1.0-4.0  
B: 0.6-2.0      SO4: 15-25

**Graph Legend:**

█ - Denotes Desired Level  
█ - Denotes Out of Range

### Soil Analysis Report Results

Agri Analysis, Inc. PO Box 483 Leola, PA 17540 (Phone) 717-656-9326  
Recommendation supplied are for PA silt-loam soils. Use as guideline only.



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Growers name  
& address

**SAMPLED BY** Salesmen's Name

*Crop*

*Important Crop Note*

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**CORN GRAIN**

- \*\* If fodder will be removed from field, increase Potash recommendation by 100 lbs/acre
- \*\*A high quality starter fertilizer applied on the row may be beneficial.
- \*\*If any manure will be applied, the nutrient recommendations listed above will need to be reduced in accordance with a current manure analysis.
- \*\*If phosphorus levels are excessive, a starter fertilizer may not be necessary.
- \*\*Residual nitrogen from last alfalfa or soybean crop was 'not' accounted for.
- \*\*The desired soil pH for corn is 6.5

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**SOYBEANS GRAIN**

- \*\* BE SURE TO INOCULATE SEED WITH PROPER INOCULATE.
- \*\* IF ANY MANURE WILL BE APPLIED, THE NUTRIENT RECOMMENDATIONS LISTED ABOVE WILL NEED TO BE REDUCED IN ACCORDANCE WITH A CURRENT MANURE ANALYSIS.
- \*\* IF FODDER IS TO BE REMOVED, INCREASE POTASSIUM RECOMMENDATION 100 LBS./ACRE

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**WHEAT GRAIN**

- \*\* DEPENDING ON PREVIOUS CROP AND MANURE HISTORY, ADDITIONAL NITROGEN APPLIED PRIOR TO PLANTING MAY BE BENEFICIAL.
- \*\* IF ANY MANURE WILL BE APPLIED, THE NUTRIENT RECOMMENDATIONS LISTED ABOVE WILL NEED TO BE REDUCED IN ACCORDANCE WITH A CURRENT MANURE ANALYSIS.
- \*\* RECOMMENDED NITROGEN IS FOR ESTABLISHMENT ONLY.

**Soil Analysis Report Results**

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