

Agri Analysis, Inc.

Soil Testing



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 |

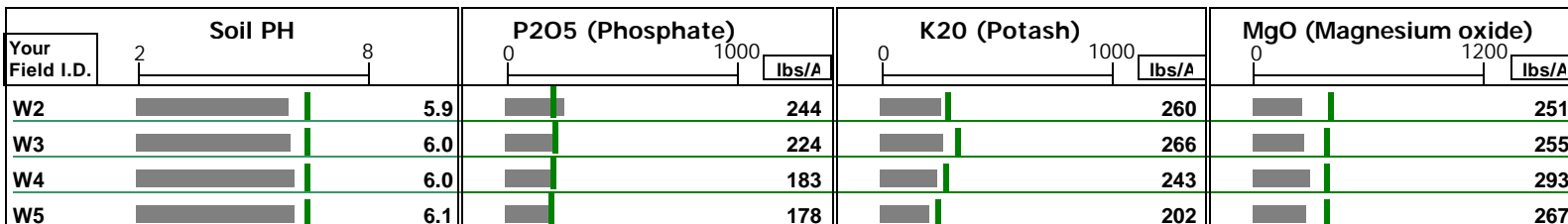
ADDITIONAL NUTRIENTS REQUIRED

| 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.



Soil Analysis Report

CUSTOMER / INVOICE TO:

Your Company Name
& Address printed here

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

GROWER:
Growers name
& address

SAMPLED BY Salesmen's Name

Crop

Important Crop Note

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**

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**

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

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.