

Soil Sample showing that Agri Cal was needed:

**SOIL ANALYSIS REPORT by MIDWEST LABORATORIES**  
VIEW YOUR SUBMITTAL FORM

| LAB NUMBER   | Grower ID                                   | SAMPLE IDENTIFICATION | ORGANIC MATTER | NEUTRAL AMMONIUM ACETATE (EXCHANGEABLE) |               |                 |                     |           |          |          |          |              |        | pH |      | CATION EXCHANGE CAPACITY | PERCENT BASE SATURATION (COMPUTED) |      |     |      |     |      |      |      |     |
|--------------|---|-----------------------|----------------|---|---------------|-----------------|---------------------|-----------|----------|----------|----------|--------------|--------|----|------|--------------------------|------------------------------------|------|-----|------|-----|------|------|------|-----|
|              |   |                       |                | PHOSPHORUS                              |               |                 | POTASSIUM           | MAGNESIUM | CALCIUM  | SODIUM   | SOIL pH  | BUFFER INDEX | C.E.C. | %  |      |                          |                                    |      |     |      |     |      |      |      |     |
|              |   |                       |                | WALKLEY BLACK                           | WEAK BRAY 1.7 | STRONG BRAY 1.7 | BICARBONATE P OLSEN | K         | Mg       | Ca       |          |              |        | Na | % K  |                          | % Mg                               | % Ca | % H | % Na |     |      |      |      |     |
| PERCENT RATE | ppm RATE                                    | ppm RATE              | ppm RATE       | ppm RATE                                | ppm RATE      | ppm RATE        | ppm RATE            | ppm RATE  | ppm RATE | ppm RATE | ppm RATE | meq/100g     |        |    |      |                          |                                    |      |     |      |     |      |      |      |     |
| 7754441      | CHAD BRANDT 10621 90TH ST SE OAKES ND 58474 | SW35                  | 2.9            | M                                       | 17            | M               | 26                  | M         |          |          | 224      | VH           | 572    | VH | 1749 | L                        | 18                                 | 5.7  | 6.6 | 18.0 | 3.2 | 26.5 | 48.6 | 21.3 | 0.4 |

| Sample ID | NITRATE-N (FIA) |       |          |     | SULFUR S ICAP | DTPA Extraction |          |       |         |              |         |           |          |           |      | EXCESS LIME RATE | SOLUBLE SALTS RATE |          |          |          |     |   |
|-----------|-----------------|-------|----------|-----|---------------|-----------------|----------|-------|---------|--------------|---------|-----------|----------|-----------|------|------------------|--------------------|----------|----------|----------|-----|---|
|           | Surface         |       | Sub 1    |     |               | Sub 2           |          | Total | ZINC Zn | MANGANESE Mn | IRON Fe | COPPER Cu | BORON B  | mmoles/cm | RATE |                  |                    |          |          |          |     |   |
|           | ppm             | lbs/A | depth IN | ppm |               | lbs/A           | depth IN | ppm   | lbs/A   | depth IN     | lbs/A   | ppm RATE  | ppm RATE |           |      |                  |                    | ppm RATE | ppm RATE | ppm RATE |     |   |
| SW35      | 9               | 16    | 0-6      |     |               |                 | 16       | 37    | VH      | 3.9          | H       | 51        | VH       | 85        | VH   | 2.8              | VH                 | 1.4      | H        | L        | 0.2 | L |

So Soil pH Below 6.0

Ca Base Saturation below 65

Tissue Sample Side by Side Comparisons With and Without Agri Cal  
With Agri Cal:



Distributed by



(641) 562-2370

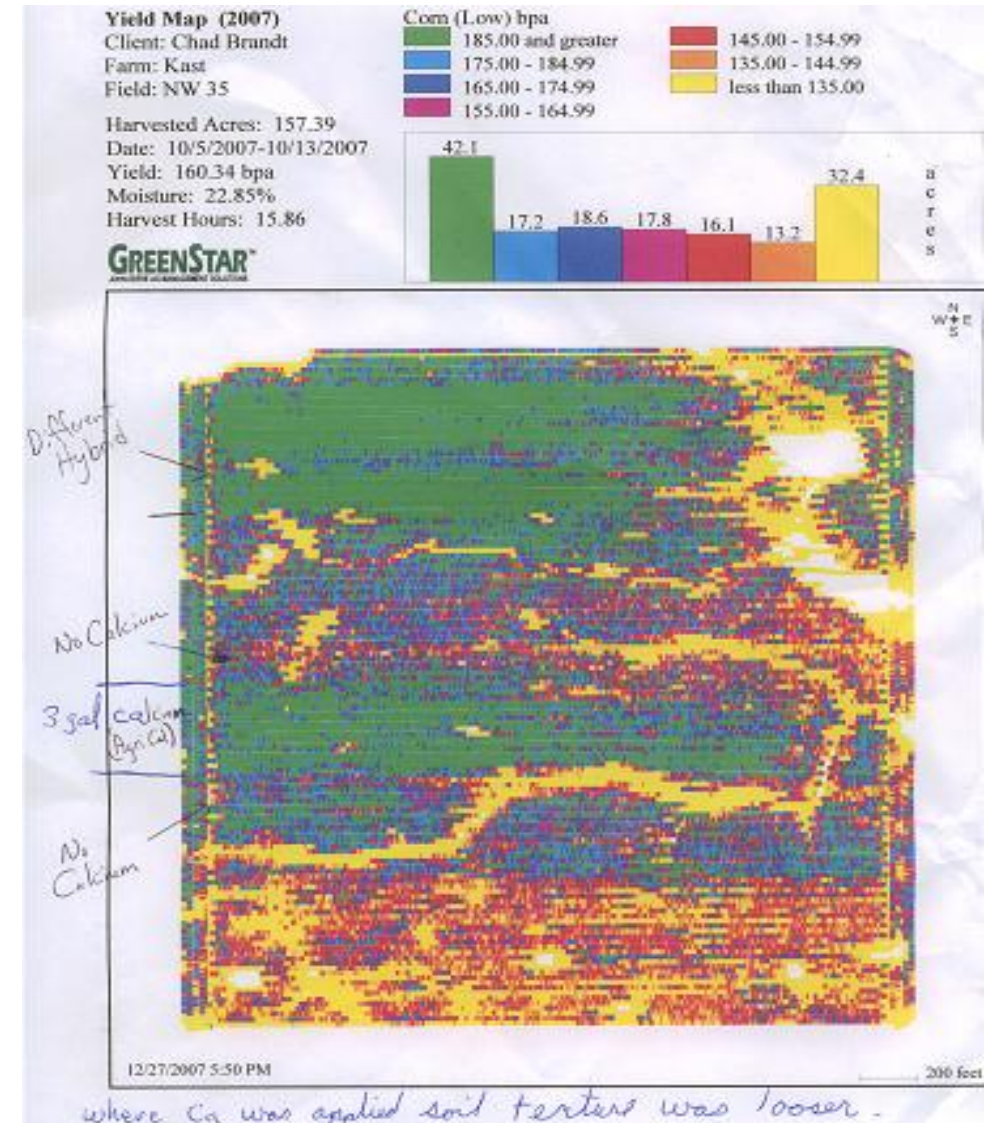
PLANT ANALYSIS for CORN stage 11

|                      | PERCENT    |              |             |              |            |          |           | PARTS PER MILLION |              |         |           |         |                                     |             |               |                   |  |
|----------------------|------------|--------------|-------------|--------------|------------|----------|-----------|-------------------|--------------|---------|-----------|---------|-------------------------------------|-------------|---------------|-------------------|--|
|                      | N NITROGEN | P PHOSPHORUS | K POTASSIUM | Mg MAGNESIUM | Ca CALCIUM | S SULFUR | Na SODIUM | Fe IRON           | Mn MANGANESE | B BORON | Cu COPPER | Zn ZINC | NO <sub>3</sub> -N NITRATE NITROGEN | Al ALUMINUM | Cl CHLORIDE % | Mo MOLYBDENUM ppm |  |
| LAB ANALYSIS RESULTS | 3.03       | 0.30         | 2.25        | 0.32         | 0.54       | 0.23     | 0.001     | 158               | 116          | 14      | 12        | 74      |                                     |             |               | 0.02              |  |
| NORMAL LEVELS        | 2.800      | 0.290        | 2.050       | 0.218        | 0.503      | 0.190    | 0.013     | 140.00            | 82.00        | 10.00   | 8.00      | 28.00   |                                     |             |               |                   |  |

|                 | N/S   | N/K  | P/S  | P/Zn  | K/Mg | K/Mn   | Ca/B   | Fe/Mn |
|-----------------|-------|------|------|-------|------|--------|--------|-------|
| ACTUAL RATIOS   | 13.17 | 1.35 | 1.30 | 40.54 | 7.03 | 193.97 | 385.71 | 1.36  |
| EXPECTED RATIOS | 14.7  | 1.4  | 1.5  | 103.6 | 9.4  | 250.0  | 503.0  | 1.7   |

Yield Map Showing Agri Cal's Effectiveness



Without Agri Cal:

PLANT ANALYSIS for CORN stage 11

|                      | PERCENT    |              |             |              |            |          |           | PARTS PER MILLION |              |         |           |         |                                     |             |               |                   |  |
|----------------------|------------|--------------|-------------|--------------|------------|----------|-----------|-------------------|--------------|---------|-----------|---------|-------------------------------------|-------------|---------------|-------------------|--|
|                      | N NITROGEN | P PHOSPHORUS | K POTASSIUM | Mg MAGNESIUM | Ca CALCIUM | S SULFUR | Na SODIUM | Fe IRON           | Mn MANGANESE | B BORON | Cu COPPER | Zn ZINC | NO <sub>3</sub> -N NITRATE NITROGEN | Al ALUMINUM | Cl CHLORIDE % | Mo MOLYBDENUM ppm |  |
| LAB ANALYSIS RESULTS | 3.33       | 0.41         | 1.69        | 0.43         | 0.59       | 0.21     | 0.001     | 112               | 106          | 10      | 11        | 25      |                                     |             |               | 0.05              |  |
| NORMAL LEVELS        | 2.800      | 0.290        | 2.050       | 0.218        | 0.503      | 0.190    | 0.013     | 140.00            | 82.00        | 10.00   | 8.00      | 28.00   |                                     |             |               |                   |  |

|                 | N/S   | N/K  | P/S  | P/Zn   | K/Mg | K/Mn   | Ca/B   | Fe/Mn |
|-----------------|-------|------|------|--------|------|--------|--------|-------|
| ACTUAL RATIOS   | 15.86 | 1.97 | 1.95 | 164.00 | 3.93 | 159.43 | 590.00 | 1.06  |
| EXPECTED RATIOS | 14.7  | 1.4  | 1.5  | 103.6  | 9.4  | 250.0  | 503.0  | 1.7   |

- 1) ↑ K (Potassium) from low levels to high levels in tissue
- 2) ↑ Zn (Zinc) from low levels to high levels in tissue
- 3) ↑ Sulfur, ↑ Iron, ↑ Manganese, ↑ Boron, ↑ Copper to more desirable levels

This customer yielded **24.37 bu better** where the agrical was placed.