

## FIELD EXPERIMENT HISTORY

**Title:** Novartis Fungicide Trial  
**Experiment:** 10 Control of Foliar Diseases in Corn **Trial ID** 1450 **Year:** 1999  
**Personnel:** J. G. Lauer, K.D. Kohn, P.J. Flannery  
**Location:** Arlington, WI **County:** Columbia  
**Supported By:** Novartis

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### Site Information

**Field:** 410 E **Previous Crop:** Soybean **Soil Type:** Plano silt loam  
**Soil Test:** **Date:** N/A **pH** 6.2 **OM (%)** 4.0 **P (ppm)** 50 **K (ppm)** 190

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### Plot Management

**Tillage Operations:** Fall Chisel Plow Soil Finisher 1 Cultivation

| <b>Fertilizer:</b> | <b>Analysis</b> | <b>Rate</b> | <b>Date</b> |
|--------------------|-----------------|-------------|-------------|
| Preplant           | 46-0-0          | 325         | 4 /23/99    |
| Starter            | 6-24-24         | 150         | 4 /29/99    |
| Post plant         | N/A             | N/A         | N/A         |
| Manure:            |                 | none        |             |

**Herbicide:** Frontier @ 1.5 pt/A  
Bladex @ 2.2 lb/A  
Buctril @ 1.5 pt/A **Insecticide:** none

**Irrigation:** none

**Planting Date:** 4/26/99 **Planting Depth:** 1.5" **Row Width:** 30"

**Target Plant Density:** 32000 plants per acre **Planting Method:** Kinze Plot Planter

**Harvest Date:** 9/13/99 **Harvest Method:** New Holland Plot Chopper

### Application Dates:

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### Experimental Design

**Design:** RCB **Replications:** 3  
**Plot Size Seeded:** 22'x10' **Experiment Size:** 0.1 A  
**Harvest Plot Size:** 2.5' x 22' **Harvest Plant Density:** 30932 plants per acre

### Factors/Treatments:

#### Product/Rate

Tilt @ 2 oz/A on 7/14  
Tilt @ 4 oz/A on 7/14  
Tilt @ 2 oz/A on 7/14 and 2 oz/A on 7/22  
Control

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**Results: Table E-54.**

**Table: E-54. Control of Foliar Diseases in Corn  
Arlington, WI - 1999**

| Treatment                                | Harvest                | Stay         | Yield | Moist | Kernel |      |           |         |          | MILK PER |          |          |
|--|------------------------|--------------|-------|-------|--------|------|-----------|---------|----------|----------|----------|----------|
|  | Population<br>plants/A | Green †<br>% |       |       | T/A    | %    | Milk<br>% | CP<br>% | ADF<br>% | NDF<br>% | IVD<br>% | CWD<br>% |
| Tilt @ 2 OZ/A on 7/14                    | 30536                  | 2.2          | 8.8   | 50.5  | 37     | 6.3  | 22.3      | 45.6    | 75.0     | 45.2     | 1865     | 16335    |
| Tilt @ 4 OZ/A on 7/14                    | 31152                  | 2.3          | 9.2   | 51.0  | 35     | 6.2  | 23.1      | 46.5    | 74.7     | 45.6     | 1805     | 16758    |
| Tilt @ 2 OZ/A on 7/14 and 2 OZ/A on 7/22 | 31152                  | 3.0          | 9.2   | 52.5  | 40     | 6.4  | 24.6      | 48.8    | 73.2     | 45.0     | 1618     | 14950    |
| check                                    | 30888                  | 2.3          | 7.9   | 50.0  | 22     | 5.6  | 25.0      | 49.9    | 72.9     | 45.6     | 1556     | 12200    |
| Mean                                     | 30932                  | 2.5          | 8.8   | 51.0  | 33     | 6.1  | 23.8      | 47.7    | 73.9     | 45.4     | 1711     | 15061    |
| <b><u>Probability (%)</u></b>            |                        |              |       |       |        |      |           |         |          |          |          |          |
| Treatment                                | 89.0                   | 50.1         | 14.6  | 41.7  | 13.1   | 31.9 | 10.3      | 9.2     | 17.6     | 94.9     | 10.2     | 2.1      |
| <b><u>LSD (0.10)</u></b>                 |                        |              |       |       |        |      |           |         |          |          |          |          |
| Treatment                                | NS                     | NS           | NS    | NS    | NS     | NS   | NS        | 2.6     | NS       | NS       | NS       | 1953     |
| <b><u>CV (%)</u></b>                     |                        |              |       |       |        |      |           |         |          |          |          |          |
|  | 3                      | 25           | 8     | 3     | 24     | 8    | 4         | 3       | 1        | 3        | 7        | 8        |

† Stay Green rating based on a scale 1 through 5. 1 = brown plants and 5 = green plants.