

## FIELD EXPERIMENT HISTORY

**Title:** Novartis Fungicide Trial  
**Experiment:** 10 Control of Foliar Diseases in Corn **Trial ID** 1486 **Year:** 2000  
**Personnel:** J. G. Lauer, K.D. Kohn, P.J. Flannery, & M.D. Kral  
**Location:** Arlington,WI **County:** Columbia  
**Supported By:** Novartis

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### Site Information

**Field:** 427 **Previous Crop:** Soybeans **Soil Type:** Plano silt loam  
**Soil Test:** **Date:** 10/1 /00 **pH** 6.3 **OM (%)** 3.8 **P (ppm)** 45 **K (ppm)** 139

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### Plot Management

**Tillage Operations:** Chisel Plow Field Cultivator 1 Cultivation

**Fertilizer:**

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
<b>Preplant</b>	46-0-0	150 A	4 /18/00
<b>Starter</b>	6-24-24	150	4 /25/00
<b>Post plant</b>	N/A	N/A	N/A
<b>Manure:</b>	N/A	N/A	

**Herbicide:** Harness @ 1.5 pt/A  
Hornet @ 2.4 oz/A  
Banvel @ 2.0 oz/A **Insecticide:** None

**Irrigation:** None

**Planting Date:** 4/25/00 **Planting Depth:** 1.5" **Row Width:** 30"

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

**Harvest Date:** 9/12/00 NK 3030 Bt  
9/19/00 Pioneer 3394 **Harvest Method:** New Holland 707 Plot Chopper

**Application Dates:** 7/17/00 V16 Application on NK 3030 Bt  
7/20/00 VT Application on NK 3030 Bt  
7/20/00 V16 Application on Pioneer 3394  
7/30/00 VT Application on Pioneer 3394

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### Experimental Design

**Design:** RCB **Replications:** 4  
**Plot Size Seeded:** 25' x10' **Experiment Size:** 110' x 75'  
**Harvest Plot Size:** 21' x 2.5' **Harvest Plant Density:** 30995 plants per acre

**Factors/Treatments:**

<u>Foliar Treatment:</u>	<u>Hybrid:</u>
Tilt 2 oz/A @ V16	NK 3030 Bt
Tilt 2 oz/A @ V16 & VT	Pioneer 3394
Tilt 4 oz/A @ V16	
Check	

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**Results: Table E-24.**

**Table E-24. Control of Foliar Diseases in Corn  
Arlington, WI - 2000**

Treatment	Hybrid	Harvest Population	Stay Green †	Yield	Moist	Kernel						Milk per		
						plants/A	%	T/A	%	Milk %	CP %	ADF %	NDF %	IVD %
Tilt @ 2 oz/A @ V16		30710	3	9.6	62.6	50	6.6	24.4	47.7	73.2	43.6	32.7	2832	27159
Tilt @ 2 oz/A @ V16 & VT		30710	4	9.3	63.7	49	6.6	23.9	46.9	73.7	44.0	32.6	2905	26884
Tilt @ 4 oz/A @ V16		31748	3	9.1	63.6	52	6.6	24.6	48.1	73.1	44.2	30.5	2864	26020
Check		30814	3	9.1	63.8	49	6.8	24.5	48.4	72.5	43.0	30.4	2810	25467
	NK 3030Bt	30399	3	8.6	61.4	48	6.4	23.4	46.0	73.9	43.4	34.0	2867	24740
	Pioneer 3394	31592	3	9.9	65.4	53	6.8	25.2	49.5	72.3	44.0	29.0	2839	28025
Tilt @ 2 oz/A @ V16	NK 3030Bt	30503	3	9.3	60.1	49	6.5	22.8	44.5	74.1	41.8	36.5	2826	26396
Tilt @ 2 oz/A @ V16 & VT	NK 3030Bt	29465	3	8.3	62.3	48	6.5	22.6	44.5	74.9	43.6	35.6	2953	24588
Tilt @ 4 oz/A @ V16	NK 3030Bt	31333	4	8.5	61.2	49	6.3	24.1	47.4	74.0	45.0	32.4	2885	24370
Check	NK 3030Bt	30295	3	8.4	62.2	46	6.5	24.4	47.8	72.8	43.0	31.6	2803	23607
Tilt @ 2 oz/A @ V16	Pioneer 3394	30918	3	9.8	65.1	51	6.6	25.9	50.8	72.2	45.4	28.9	2839	27922
Tilt @ 2 oz/A @ V16 & VT	Pioneer 3394	31955	4	10.2	65.2	51	6.6	25.2	49.4	72.6	44.4	29.6	2857	29181
Tilt @ 4 oz/A @ V16	Pioneer 3394	32163	3	9.7	66.0	55	6.9	25.1	48.9	72.3	43.3	28.5	2843	27670
Check	Pioneer 3394	31333	3	9.7	65.4	53	7.1	24.6	48.9	72.1	43.0	29.2	2816	27326
Mean		30995	3	9.3	63.4	50	6.6	24.3	47.8	73.1	43.7	31.5	2853	26382
<b>Probability (%)</b>														
Treatment (T)		51.6	10.3	54.3	63.8	78.8	40.4	95.2	89.4	73.8	67.1	51.4	57.9	61.1
Hybrid (H)		4.8	41.2	0.0	0.0	2.8	0.6	6.4	2.3	5.0	37.3	0.2	58.3	0.3
T x H		60.4	34.6	39.3	70.8	88.0	25.3	62.5	50.2	90.2	10.1	60.6	84.5	73.8
<b>LSD (0.10)</b>														
Treatment (T)		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hybrid (H)		979	NS	0.5	1.3	3	0.2	1.5	2.4	1.4	NS	2.5	NS	1706
T x H		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>CV (%)</b>														
		5	13	9	3	11	5	10	8	3	5	13	5	11

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