FIELD EXPERIMENT HISTORY

Title: **Foliar Fungicide Timing**

Experiment: 10 Foliar Fungicide Timing **Trial ID:** 2571 **Year:** 2004

Personnel: J.G. Lauer, P.J. Flannery, and K.D. Kohn

Location: Arlington, WI **County:** Columbia

Supported By: BASF Corporation

Site Information

Field: ARS 358 **Previous Crop:** Soybean **Soil Type:** Plano Silt Loam

Soil Test: **Date:** 10/15/04 **pH** 6.6 **OM (%)** 2.6 **P (ppm)** 43 **K (ppm)** 311

Plot Management

Tillage Operations: Chisel Plow Field Cultivator Soil Finisher Cultivated 6/25/04

Fertilizer:

Preplant Analysis:	46-0-0	**Rate lbs/A:** 325	**Date:** 4 /15/04
Starter Analysis:	N/A	**Rate lbs/A:** N/A	**Date:** N/A
Post plant Analysis:	N/A	**Rate lbs/A:** N/A	**Date:** N/A
Manure:	N/A		

Herbicide: Harness 2.5 pt/A
Hornet 4.0 oz/A

Insecticide: None

Hybrid: Dekalb DKC5334

Irrigation: None

Planting Date: 5/6/04 **Planting Depth:** 1.5" **Row Width** 30"

Target Plant Density: 30000 **plants per acre** **Planting Method:** Kinze 3000 Row Planter

Harvest Date: 10/21/04 **Harvest Method:** Kincaid Plot Combine

Experimental Design

Design: RCB **Replications:** 4

Plot Size Seeded: 10' x 30' **Experiment Size:** 0.55 Acre

Harvest Plot Size: 5' x 27.5' **Harvest Plant Density:** 27895 **plants per acre**

Factors/Treatments:

Application:

1. Check
2. Headline @ 6.14 g a.i. /A; NIS @ 0.125 g/A @ V4
3. Headline @ 6.14 g a.i. /A NIS @ 0.125 g/A @ V6
4. Headline @ 6.14 g a.i. /A; NIS @ 0.125 g/A @ V9
5. Headline @ 6.14 g a.i. /A; NIS @ 0.125 g/A @ V14
6. Headline @ 6.14 g a.i. /A; NIS @ 0.125 g/A @ VT
7. Headline @ 9.2 g a.i. /A; NIS @ 0.125 g/A @ V4
8. Headline @ 9.2 g a.i. /A; NIS @ 0.125 g/A @ V6
9. Headline @ 9.2 g a.i. /A; NIS @ 0.125 g/A @ V9
10. Headline @ 9.2 g a.i. /A; NIS @ 0.125 g/A @ V14
11. Headline @ 9.2 g a.i. /A; NIS @ 0.125 g/A @ VT
12. Headline @ 3.07 g a.i. /A; NIS @ 0.125 g/A @ V9
13. Headline @ 3.07 g a.i. /A; NIS @ 0.125 g/A @ V14
14. Quadris @ 6.14 g a.i. /A @ VT

Observation Ratings:

Stay Green
1. Completely Brown
3. 25% Green
5. 50% Green
7. 75% Green
9. Completely Green

Disease (Based on leaf area affected).
1. Poor (diseased)
5. Moderate
9. Best (healthy)

Results: Table C-71.

Table C-71. BASF Headline Trial.
Arlington, WI - 2004

Treatment	Application	Appl Timing	Harvest population	Lodging	Grain yield	Grain moisture	Test weight	Grower return	Disease rating	Stay Green rating
			plants/A	%	bu/A	%	lb/bu	$/A	1-10	1-10
1	Check		27562	0	200	25.1	51	333	5.9	5.5
2	Headline @ 6.14	V4	27641	0	199	26.2	50	327	6.8	6.8
3	Headline @ 6.14	V6	28116	0	209	25.9	52	345	7.3	6.5
4	Headline @ 6.14	V9	27720	0	196	26.7	51	321	7.3	6.0
5	Headline @ 6.14	V14	27958	0	204	26.6	50	334	7.3	6.5
6	Headline @ 6.14	VT	28116	0	211	27.0	51	345	8.0	7.0
7	Headline @ 9.2	V4	27878	0	200	25.5	51	333	6.8	5.8
8	Headline @ 9.2	V6	28354	0	203	26.4	51	333	7.0	6.0
9	Headline @ 9.2	V9	27403	0	209	27.2	51	340	6.9	6.5
10	Headline @ 9.2	V14	27958	0	204	25.9	51	336	7.4	6.5
11	Headline @ 9.2	VT	27878	0	205	26.1	51	338	7.6	6.3
12	Headline @ 3.07	V9	27720	0	203	26.1	51	335	6.8	6.3
13	Headline @ 3.07	V14	27245	0	206	26.5	52	337	7.4	6.5
14	Quadris @ 6.14	VT	28987	0	209	26.2	51	344	7.4	6.3
Mean			27895	0	204	26.2	51	336	7.1	6.3
Probability (%)										
Treatment (T)			72.1	73.2	8.5	1.7	11.7	30.7	0.1	16.4
LSD (0.10)										
Treatment (T)			NS	NS	8	0.8	NS	NS	0.6	NS
CV (%)			3.6	329	3	3	1	4	8	10