FIELD EXPERIMENT HISTORY

Title: **Foliar Fungicide Timing**

Experiment: 10 Foliar Fungicide Timing **Trial ID:** 2674 **Year:** 2005

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

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

Supported By: BASF Corporation

Site Information

Field: ARS368N **Previous Crop:** Corn **Soil Type:** Plano Silt Loam

Soil Test: **Date:** 10/15/05 **pH** 6.3 **OM (%)** 3.2 **P (ppm)** 30 **K (ppm)** 162

Plot Management

Tillage Operations: Chisel Plow Field Cultivator Cultivated 6/23/05

Fertilizer:

Preplant Analysis:	46-0-0	**Rate lbs/A:** 325	**Date:**	4 /15/05
Starter Analysis:	N/A	**Rate lbs/A:** N/A	**Date:**	N/A
Post plant Analysis:	34-0-0	**Rate lbs/A:** 150	**Date:**	6 /27/05
Manure:	N/A			

Herbicide: Outlook 20 oz/A
Hornet 4.0 oz/A
Accent 0.67 oz/A
Callisto 3.0 oz/A

Insecticide: Force 3G 4.4 lbs/A

Hybrid: Dekalb DKC53-34

Irrigation: None

Planting Date: 4/29/05 **Planting Depth:** 1.5" **Row Width** 30"

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

Harvest Date: 10/26/05 **Harvest Method:** Massey Ferguson 8XP

Notes: Method of Application: CO2 Backpack sprayer, 10' boom, 15" spacing, TeeJet 8002VS nozzles, 30 lb pressure, 3.5 mph, 19.6 gal H2O/Acre.

Experimental Design

Design: RCB **Replications:** 4

Plot Size Seeded: 10' x 30' **Experiment Size:** 0.3 Acre

Harvest Plot Size: 5' x 30' **Harvest Plant Density:** 33033 **plants per acre**

Factors/Treatments:

Application:

1. Check
2. Headline @ 6.0 g a.i. /A; NIS @ 0.125 g/A @ V17 on 7/18/05
3. Headline @ 6.0 g a.i. /A; NIS @ 0.125 g/A @ VT on 7/21/05
4. Headline @ 6.0 g a.i. /A; NIS @ 0.125 g/A @ R1 on 7/25/05
5. Headline @ 9.0 g a.i. /A; NIS @ 0.125 g/A @ V17 on 7/18/05
6. Headline @ 9.0 g a.i. /A; NIS @ 0.125 g/A @ VT on 7/21/05
7. Headline @ 9.0 g a.i. /A; NIS @ 0.125 g/A @ R1 on 7/25/05

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-63.

Table C-63. BASF Headline Trial - ARS368N
Arlington, WI - 2005

Treatment	Application	Application Timing	Grain yield	Grain moisture	Test weight	Lodging	Grower return	Disease rating	Stay Green rating
			bu/A	%	lb/bu	%	$/A	1-10	1-10
1	Check		181	17.4	59	12	290	2.8	3.5
2	Headline@ 6.0; NIS@0.125	V17	192	17.3	60	16	308	2.0	3.5
3	Headline@ 6.0; NIS@0.125	VT	186	17.5	60	10	298	2.3	4.5
4	Headline@ 6.0; NIS@0.125	R1	181	16.9	60	21	291	2.8	3.3
5	Headline@ 9.0; NIS@0.125	V17	195	17.4	60	12	312	2.3	4.0
6	Headline@ 9.0; NIS@0.125	VT	202	17.5	61	12	324	2.3	4.5
7	Headline@ 9.0; NIS@0.125	R1	195	17.2	60	16	314	3.0	4.8
Mean			190	17.3	60	14	305	2.5	4.0
Probability (%)									
Treatment			20.2	44.9	22.5	42.9	18.6	9.8	5.4
LSD (0.10)									
Treatment			NS	NS	NS	NS	NS	0.6	0.9
CV (%)			7	2	1	53	6	20	18

FIELD EXPERIMENT HISTORY

Title: **Foliar Fungicide Timing**

Experiment: 10 Foliar Fungicide Timing **Trial ID:** 2675 **Year:** 2005

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

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

Supported By: BASF Corporation

Site Information

Field: ARS372 **Previous Crop:** Soybean **Soil Type:** Plano Silt Loam

Soil Test: **Date:** 10/15/05 **pH** 5.7 **OM (%)** 3.7 **P (ppm)** 35 **K (ppm)** 202

Plot Management

Tillage Operations: Chisel Plow Field Cultivator Soil Finisher Cultivated 6/23/05

Fertilizer:

Preplant Analysis:	46-0-0	**Rate lbs/A:** 325	**Date:**	4 /15/05
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: Outlook 20 oz/A
Hornet 4.0 oz/A

Insecticide: None

Hybrid: NK Brand N50-P5

Irrigation: None

Planting Date: 4/28/05 **Planting Depth:** 1.5" **Row Width** 30"

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

Harvest Date: 10/26/05 **Harvest Method:** Massey Ferguson 8XP

Notes: Method of Application: CO2 Backpack sprayer, 10' boom, 15" spacing, TeeJet 8002VS nozzles, 30 lb pressure, 3.5 mph, 19.6 gal H2O/Acre.

Experimental Design

Design: RCB **Replications:** 4

Plot Size Seeded: 10' x 30' **Experiment Size:** 0.3 Acre

Harvest Plot Size: 5' x 30' **Harvest Plant Density:** 31487 **plants per acre**

Factors/Treatments:

Application:

1. Check
2. Headline @ 6.0 g a.i. /A; NIS @ 0.125 g/A @ V17 on 7/18/05
3. Headline @ 6.0 g a.i. /A; NIS @ 0.125 g/A @ VT on 7/21/05
4. Headline @ 6.0 g a.i. /A; NIS @ 0.125 g/A @ R1 on 7/25/05
5. Headline @ 9.0 g a.i. /A; NIS @ 0.125 g/A @ V17 on 7/18/05
6. Headline @ 9.0 g a.i. /A; NIS @ 0.125 g/A @ VT on 7/21/05
7. Headline @ 9.0 g a.i. /A; NIS @ 0.125 g/A @ R1 on 7/25/05

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-64.

Table C-64. BASF Headline Trial - ARS372
Arlington, WI - 2005

Treatment	Application	Application Timing	Grain yield	Grain moisture	Test weight	Lodging	Grower return	Disease rating	Stay Green rating
			bu/A	%	lb/bu	%	$/A	1-10	1-10
1	Check		199	18.8	57	2	314	1.8	6.3
2	Headline@ 6.0; NIS@0.125	V17	204	18.6	57	0	321	1.0	6.8
3	Headline@ 6.0; NIS@0.125	VT	211	18.2	58	0	335	1.5	6.3
4	Headline@ 6.0; NIS@0.125	R1	204	18.5	58	0	322	1.0	6.5
5	Headline@ 9.0; NIS@0.125	V17	207	18.5	58	0	327	1.5	6.3
6	Headline@ 9.0; NIS@0.125	VT	203	18.6	57	1	321	1.3	7.0
7	Headline@ 9.0; NIS@0.125	R1	206	18.4	58	0	326	1.8	6.5
Mean			205	18.5	58	1	324	1.4	6.5
Probability (%)									
Treatment			64.5	24.7	3.5	29.6	59.0	11.3	59.8
LSD (0.10)									
Treatment			NS	NS	1	NS	NS	NS	NS
CV (%)			4	1	1	204	5	31	10