

FIELD EXPERIMENT HISTORY

Title: Syngenta Fungicide Trial
Experiment: 10Fungicide **Year:** 2001
Personnel: J.G. Lauer, P.J. Flannery, and K.D. Kohn **Trial ID** 1618
Location: Arlington, WI **County:** Columbia
Supported By: Syngenta Crop Protection

Site Information

Field: 408 **Previous Crop:** Soybean **Soil Type:** Plano
Soil Test: **Date:** 11/19/01 **pH** 6.4 **OM (%)** 2.8 **P (ppm)** 64 **K (ppm)** 158

Plot Management

Tillage Operations: Chisel Plow Soil Finisher 2x 1
Fertilizer: **Preplant Analysis:** 46-0-0 **Rate lbs/A:** 325 **Date:** 4 /18/01
Starter Analysis: 6-24-24 **Rate lbs/A:** 150 **Date:** 5 /20/01
Post plant Analysis: N/A **Rate lbs/A:** N/A **Date:** N/A
Manure: None
Herbicide: Harness 2.5 oz/A **Insecticide:** None
Permit .66 oz/A **Hybrid:** Cargill F657
None NK48-V8
Pioneer 35R5
Planting Date: 05/20/01 **Planting Depth:** 1 1/2 **Row Width** 30"
Target Plant Density: ##### plants per acre **Planting Method:** Kinze Plot Planter
Harvest Date: 10/8/01 **Harvest Method:** New Holland 707 Plot Cho
Notes: 7/31/01 V16 treatment on Pioneer 35R57
8/2/01 V16 treatment on Cargill F657

Experimental Design

Design: RCB **Replications:** 4
Plot Size Seeded: 25' x 5' **Experiment Size:** 0.13 A
Harvest Plot Size: 21' x 2.5' **Harvest Plant Density:** 30803 plants per acre
Factors/Treatments:

Hybrid: Cargill F657
NK48-V8
Pioneer 35R57
Foliar Treatment: Tilt @ 4 oz/A at V16
Check

Results: Table C-46.

**Table C-46. Control of Foliar Diseases in Corn
Arlington, WI - 2001**

Treatment	Hybrid	Harvest Population plants/A	Stay Green † Score	Yield T/A	Moist %	Kernel						Milk per		
						Milk %	CP %	ADF %	NDF %	IVD %	CWD %	Starch %	Ton lb/T	Acre lb/A
Tilt 4 oz/A at V16		30284	2	7.7	64.1	45	7.9	27.0	53.0	70.5	44.5	23.1	2686	20660
Check		31321	3	8.2	62.7	47	8.0	26.0	51.6	71.3	44.3	25.1	2683	22043
	Cargill F657	30699	2	6.7	70.9	51	8.5	26.2	52.3	73.3	48.9	22.7	2956	19783
	NK48-V8	31010	2	8.6	61.9	55	8.0	29.3	56.5	67.3	42.2	17.2	2415	21003
	Pioneer 35R57	30699	2	8.7	57.5	33	7.3	23.9	48.0	72.1	42.0	32.3	2683	23268
Tilt 4 oz/A at V16	Cargill F657	30284	2	6.5	71.0	48	8.4	26.3	52.4	73.6	49.6	22.0	2980	19406
Tilt 4 oz/A at V16	NK48-V8	30077	2	8.6	62.1	56	7.8	29.5	57.1	67.0	42.4	18.0	2428	20998
Tilt 4 oz/A at V16	Pioneer 35R57	30491	2	8.1	59.2	33	7.4	25.1	49.5	71.0	41.5	29.2	2650	21576
Check	Cargill F657	31114	2	6.9	70.8	55	8.7	26.1	52.2	73.1	48.3	23.4	2932	20160
Check	NK48-V8	31943	3	8.7	61.6	54	8.2	29.2	56.0	67.6	42.1	16.5	2401	21008
Check	Pioneer 35R57	30906	3	9.2	55.8	33	7.2	22.8	46.5	73.2	42.5	35.3	2716	24960
Mean		30803	2	8.0	63.4	46	8.0	26.5	52.3	70.9	44.4	24.1	2685	21351
Probability (%)														
Treatment (T)		32.6	3.2	31.8	33.6	62.4	29.9	39.1	39.6	44.5	78.4	38.8	96.4	40.0
Hybrid (H)		96.0	42.9	0.5	0.0	0.0	0.0	0.4	0.3	0.0	0.0	0.0	0.0	22.8
T x H		83.8	42.9	69.8	56.5	46.2	21.6	67.2	78.1	52.2	37.7	40.8	76.0	67.0
LSD (0.10)														
Treatment (T)		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hybrid (H)		NS	NS	1.4	2.9	7	0.3	2.3	3.5	2.1	1.4	4.9	142	NS
T x H		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CV (%)														
		8	19	14	5	18	5	10	8	3	4	23	6	18

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