

FIELD EXPERIMENT HISTORY

Title: 15 Harvest Timing
Experiment: 15 Harvest Timing **Trial ID:** 2257 **Year:** 2000
Personnel: J.G. Lauer, P.J. Flannery, and K.D. Kohn
Location: Arlington, WI **County:** Columbia
Supported By: Hatch

Site Information

Field: 427 **Previous Crop:** Soybean **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 10/1 /00 **pH** 6.5 **OM (%)** 3.4 **P (ppm)** 43 **K (ppm)** 115

Plot Management

Tillage Operations: Chisel Plow Field Cultivator Cultivated

	<u>Analysis:</u>	<u>Rate lbs/A:</u>	<u>Date:</u>
Fertilizer: Preplant :	46-0-0	325	N/A
Starter :	6-24-24	150	4 /25/00
Post plant :	N/A	N/A	N/A
Manure:	N/A	N/A	

Herbicide: Harness 1.5 pt/A **Insecticide:** None
Hornet 2.4 oz/A **Hybrid:** See Factors
Banvel 2.0 oz/A

Irrigation: None

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

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

Harvest Date: See Factors: **Harvest Method:** Hand Harvest

Notes: Snow drifts of 5 feet and greater interfered with harvest from December through March.

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 25' x 5' **Experiment Size:** 0.12 A
Harvest Plot Size: 22' x 2.5'

Factors/Treatments:

Harvest Dates:

October 13
November 15
December 15
January 17
February 16
March 15
April 18

Hybrids:

Pioneer 34G82
Pioneer 37M34

Results: Table C-49.

**Table C-49. Harvest Timing Effects on Grain Yield
Arlington, WI - 2000**

Harvest Date	Hybrid	Grain yield bu/A	Grain moisture %	Harvested plant population plants/A	Lodging %	Ear weight g/ear	Grower return \$/A
October		204	25.6	29700	9	191	406
November		206	17.8	29568	30	187	433
December		122	16.3	16434	79	203	258
January		95	17.4	11880	30	199	199
February		86	16.0	12672	24	194	183
March		77	16.4	10098	59	199	164
April		127	13.6	27588	81	199	268
	Pioneer 34G82	141	18.5	20441	43	201	292
	Pioneer 37M34	134	16.7	22063	43	186	279
October	Pioneer 34G82	210	28.4	29832	12	194	408
November	Pioneer 34G82	229	17.8	29832	23	202	481
December	Pioneer 34G82	134	17.1	18480	72	200	283
January	Pioneer 34G82	106	17.3	13200	33	200	224
February	Pioneer 34G82	94	16.0	13728	19	206	200
March	Pioneer 34G82	82	16.6	10824	55	208	174
April	Pioneer 34G82	131	16.6	27192	88	200	274
October	Pioneer 37M34	199	22.9	29568	5	187	404
November	Pioneer 37M34	183	17.9	29304	38	173	385
December	Pioneer 37M34	85	14.0	10296	100	215	182
January	Pioneer 37M34	60	17.8	7920	20	193	127
February	Pioneer 37M34	74	16.0	11088	30	176	157
March	Pioneer 37M34	62	15.8	7920	70	172	133
April	Pioneer 37M34	123	10.6	27984	74	198	262
Mean		138	17.8	21090	43	195	287
<u>Probability(%)</u>							
Harvest Date (D)		0.0	0.0	0.0	0.1	66.1	0.0
Hybrid (H)		0.1	53.7	0.0	1.2	1.1	0.2
D x H		13.5	97.3	0.3	1.6	17.1	13.6
<u>LSD(0.10)</u>							
Harvest Date (D)		30	1.3	3523	27	NS	63
Hybrid (H)		12	NS	814	7	8	28
D x H		NS	NS	671	19	NS	NS
<u>CV(%)</u>							
		15	39	7	28	7	16