

FIELD EXPERIMENT HISTORY

Title: Row Spacing Influence on Grain Yield
Experiment: 05 Row Spacing **Trial ID:** 2240 **Year:** 2001
Personnel: J. G. Lauer, K.D. Kohn, P.J. Flannery
Location: Arlington, WI **County:** Columbia
Supported By: Hatch

Site Information

Field: ARS 372 **Previous Crop:** Soybean **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 9 / 1 / 01 **pH** 6.6 **OM (%)** 1.6 **P (ppm)** 19 **K (ppm)** 120

Plot Management

Tillage Operations: Fall Chisel Plow Field Cultivator

	<u>Analysis:</u>	<u>Rate lbs/A:</u>	<u>Date:</u>
Fertilizer:			
Preplant :	46-0-0	325	N/A
Starter :	N/A	N/A	N/A
Post plant :	N/A	N/A	N/A
Manure:		None	

Herbicide: Harness 1.5 pt/A **Insecticide:** None
Permit 0.66 oz/A **Hybrid:** Pioneer 35R57

Irrigation: None

Planting Date: 5/9/01 **Planting Depth:** 1.5" **Row Width:** Varies

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

Harvest Date: 10/26 **Harvest Method:** Kincaid Plot Combine

Experimental Design

Design: RCB Factorial

Replications: 3

Plot Size Seeded: 10' x 125'

Experiment Size: 0.4 A

Harvest Plot Size: 5' x 125'

Harvest Plant Density: 30300 plants per acre

Factors/Treatments:

Row Spacing:

7.5 plantback w/15 planter
7.5 plantback w/30 planter
15 inch
15 plantback w/30 planter

Results: Table C-28.

**Table C-28. Row Spacing Influence on Grain Yield
Arlington, WI - 2001**

Row spacing	Yield bu/A	Moisture %	Test weight lbs/bu	Grower return \$/A	Population plants/A	Lodging %
7.5 inch plantback using 15 inch planter	210	22.5	53	427	29333	2.1
7.5 inch plantback using 30 inch planter	210	22.6	52	426	30667	4.4
15 inch	222	22.7	53	450	30000	0.0
15 inch plantback using 30 inch planter	216	22.7	52	440	28667	2.2
30 inch	214	21.9	53	437	32667	0.0
Mean	214	22.5	53	436	30267	1.8
<u>Probability(%)</u>						
Row Space (R)	14.4	20.5	6.8	19.5	77.3	66.0
<u>LSD(0.10)</u>						
Row Space (R)	NS	NS	0.4	NS	NS	NS
<u>CV(%)</u>						
	3	2	1	3	13	232