FIELD EXPERIMENT HISTORY

Title: **Row Spacing Influence on Grain Yield**

Experiment: 05RS **Trial ID** 1316 **Year:** 1998

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

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

Supported By: Hatch

Site Information

Field: 375 **Previous Crop:** Soybean **Soil Type:** Plano

Soil Test: **Date:** 10/1 /98 **pH** 7.1 **OM (%)** 3 **P (ppm)** 55 **K (ppm)** 225

Plot Management

Tillage Operations: Fall Chisel Plow Field Cultivator

		Analysis:	Rate lbs/A:	Date:
Fertilizer:	**Preplant :**	46-0-0	325	5 /1 /98
	Starter :	N/A	N/A	N/A
	Post plant :	N/A	N/A	N/A
	Manure:		None	

Herbicide: Lasso @ 2qts/A; Bladex 90 DF 2.2 lb/A **Insecticide:** None

Hybrid: Pioneer 3751

Irrigation: None

Planting Date: 5/6/98 **Planting Depth:** 1.5" **Row Width:** Varies

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

Harvest Date: 10/19/98 **Harvest Method:** Kincaid Plot Combine

N/A

Experimental Design

Design: RCB **Replications:** 4

Plot Size Seeded: 10' x 75' **Experiment Size:** 5' x 75'

Harvest Plot Size: 5' x 75' **Harvest Plant Density:** 31300 **plants per acre**

Factors/Treatments:

Row Spacing:
15 ", 30 ", 15 " plantback w 30", 7.5" plantback w 15", 7.5" plantback w 30", and 7.5" drill

Results: Table E-29.

Table E-29. Row Spacing Influence on Grain Yield
Arlington, WI - 1998

Row spacing	Yield	Moisture	Test weight	Population	Lodging	Ears per plant
	bu/A	%	lbs/bu	plants/A	%	
7.5 inch	190	19.9	55	30368	1.5	1.00
7.5 plantback w/15 planter	196	19.5	55	27381	0.9	1.00
7.5 plantback w/30 planter	187	21.3	53	36093	0.0	1.01
15 inch	196	20.1	55	29621	0.9	1.01
15 plantback w/30 planter	187	21.2	54	34599	2.2	1.01
30 inch	198	19.9	55	29870	0.0	1.01
Mean	192	20.3	54	31322	0.9	1.01
Probability(%)						
Row Space(R)	65.8	0.0	0.3	5.2	50.2	82.3
LSD(0.10)						
Row Space(R)	NS	0.5	0.7	4852	NS	NS
CV(%)	6	2	1	13	196	2