FIELD EXPERIMENT HISTORY

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

Experiment: 05RS **Trial ID** 1419 **Year:** 1999

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

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

Supported By: Hatch

Site Information

Field: 358 **Previous Crop:** Soybean **Soil Type:** Plano

Soil Test: **Date:** N/A **pH** 6.8 **OM (%)** 3.1 **P (ppm)** 45 **K (ppm)** 240

Plot Management

Tillage Operations: Fall Chisel Plow Soil Finisher

		Analysis:	Rate lbs/A:	Date:
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: Frontier @ 1.5 pt/a
Bladex @ 2.2 lb/a

Insecticide: none

Hybrid: Pioneer 3751

Irrigation: none

Planting Date: 5/10/99 **Planting Depth:** 1.5" **Row Width:** N/A

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

Harvest Date: 10/18 **Harvest Method:** Kincaid Plot Combine

Experimental Design

Design: RCB **Replications:** 4

Plot Size Seeded: 10' x 75' **Experiment Size:** 0.34 A

Harvest Plot Size: 75' x 5' **Harvest Plant Density:** 26933 **plants per acre**

Factors/Treatments:

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

Results: Table E-46.

Table E-46. Row Spacing Influence on Grain Yield
Arlington, WI - 1999

Row spacing	Yield	Moisture	Test weight	Population	Lodging
	bu/A	%	lbs/bu	plants/A	%
7.5 plantback w/15 planter	169	17.5	57.4	24891	2.0
7.5 plantback w/30 planter	193	16.9	57.8	26136	1.8
15 inch	176	17.0	57.6	27132	1.9
15 plantback w/30 planter	177	17.0	57.3	27132	2.7
30 inch	197	17.4	57.5	29372	2.4
Mean	182	17.1	57.5	26933	2.2
Probability(%)					
Row Space(R)	5.5	34.8	86.3	25.1	96.4
LSD(0.10)					
Row Space(R)	6	NS	NS	NS	NS
CV(%)	6	2	1	11	130