

## FIELD EXPERIMENT HISTORY

**Title:** Row Spacing Influence on Grain Yield  
**Experiment:** 05RS **Trial ID** 1551 **Year:** 2000  
**Personnel:** J.G. Lauer, K.D. Kohn, P.J. Flannery and M. Kral  
**Location:** Arlington, WI **County:** Columbia  
**Supported By:** Hatch

---

---

### Site Information

**Field:** 373 **Previous Crop:** Soybean **Soil Type:** Plano  
**Soil Test:** **Date:** 6 /1 /00 **pH** 6.6 **OM (%)** 2.8 **P (ppm)** 32 **K (ppm)** 176

---

---

### Plot Management

**Tillage Operations:** Fall Chisel Plow Field Cultivator

	<u>Analysis:</u>	<u>Rate lbs/A:</u>	<u>Date:</u>
<b>Fertilizer:</b>			
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 35R57

**Irrigation:** None

**Planting Date:** 5/2/00 **Planting Depth:** 1.5" **Row Width:** Varies  
**Target Plant Density:** 30000 plants per acre **Planting Method:** Kinze Inter-Row Planter  
**Harvest Date:** 10/19/00 **Harvest Method:** Kincaid Plot Combine

---

---

### Experimental Design

**Design:** RCB Factorial **Replications:** 4  
**Plot Size Seeded:** 10' x 75' **Experiment Size:** 10' x 22'  
**Harvest Plot Size:** 5' x 22' **Harvest Plant Density:** 26888 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  
30 inch

---

---

**Results: Table E-18.**

**Table E-18. Row Spacing Influence on Grain Yield  
Arlington, WI - 2000**

Row spacing	Yield	Moisture	Test weight	Population	Lodging
	bu/A	%	lbs/bu	plants/A	%
7.5 inch plantback using 15 inch planter	210	26.1	53.8	26532	0.9
7.5 inch plantback using 30 inch planter	204	26.6	54.1	27522	2.8
15 inch	213	26.1	54.2	24552	3.2
15 inch plantback using 30 inch planter	200	26.6	53.6	23760	0.9
30 inch	211	26.6	54.0	32076	10.0
Mean	208	26.4	53.9	26888	3.6
<b><u>Probability(%)</u></b>					
Row Space (R)	5.0	68.0	23.3	0.0	6.8
<b><u>LSD(0.10)</u></b>					
Row Space (R)	8	NS	NS	2479	6.1
<b><u>CV(%)</u></b>					
	3	3	1	7	137