

## FIELD EXPERIMENT HISTORY

**Title:** Planter Speed Effects on Stand Variability  
**Experiment:** 11Planter Speed **Trial ID** 1317 **Year:** 1998  
**Personnel:** J.G. Lauer and K. D. Kohn  
**Location:** Arlington, WI **County:** Columbia  
**Supported By:** Hatch

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### Site Information

**Field:** 375 **Previous Crop:** Soybean **Soil Type:** Plano Silt Loam  
**Soil Test:** **Date:** 10/1 /98 **pH** 7.1 **OM (%)** 3.0 **P (ppm)** 55 **K (ppm)** 225

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### Plot Management

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

<b>Fertilizer:</b>	<b>Analysis</b>	<b>Rate</b>	<b>Date</b>
<b>Preplant</b>	46-0-0	300	5 /1 /98
<b>Starter</b>	N/A	N/A	N/A
<b>Post plant</b>	N/A	N/A	N/A
<b>Manure:</b>		None	

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

**Irrigation:** None **Hybrid:** Pioneer 3751

**Planting Date:** 5/6/98 **Planting Depth:** 1.5" **Row Width:** 30"

**Target Plant Density:** 31000 plants per acre **Planting Method:** Kinze Inter-Row Planter

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

**Notes:** N/A

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### Experimental Design

**Design:** RCB **Replications:** 3  
**Plot Size Seeded:** 10' x 75' **Experiment Size:** 10' x 75'  
**Harvest Plot Size:** 5' x 75' **Harvest Plant Density:** 33000 plants per acre

**Factors/Treatments:**

Planter Speed:  
4 mph  
6 mph  
8 mph

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**Results: Table E-35.**

**Table E-35. Planter Speed Effects on Stand Variability  
Arlington, WI - 1998**

Planter speed	Yield		Test		Population plants/A	Ears ears/A	Spacing		Number of doubles ( $\geq 12''$ spacing) per 1/1000th A	Percent of doubles ( $\geq 12''$ spacing) %	Number of skips ( $\leq 2''$ spacing) per 1/1000th A	Percent of skips ( $\leq 2''$ spacing) %
	bu/A	Moisture %	weight lbs/bu	Lodging %			Average inches	Standard deviation				
4 mph	208	21.4	53	3.9	33852	33852	6.3	$\pm 2.5$	2.1	4.3	2.2	4.4
6 mph	209	21.6	54	1.0	33520	33520	6.4	$\pm 2.6$	1.6	3.2	1.8	3.7
8 mph	199	21.9	53	2.1	32193	32525	6.4	$\pm 3.1$	2.8	5.8	2.3	4.6
Mean	205	21.6	53	2.4	33189	33299	6.4	$\pm 2.7$	2.2	4.4	2.1	4.3
<b><u>Probability(%)</u></b>												
Planter Speed (S)	24.3	6.8	48.9	30.3	13.2	32.1	62.6	14.0	4.3	4.3	77.7	77.7
<b><u>LSD(0.10)</u></b>												
Planter Speed (S)	NS	0.3	NS	NS	NS	NS	NS	NS	0.7	1.4	NS	NS
<b><u>CV(%)</u></b>												
	4	1	1	83	2	3	3	10	18	18	35	35