

FIELD EXPERIMENT HISTORY

Title: Twin Row Corn Strip Trial
Experiment: 05 Row Spacing **Trial ID:** 03C57 **Year:** 2003
Personnel: M.G. Bertram
Location: Marshfield, WI **County:** Wood
Supported by: Marshfield Ag. Research Station

Site Information

Field: N5 **Soil Type:** Withee Silt Loam
Soil Test : **Date:** 10/25/02 **pH** 6.5 **OM (%)** 3.0 **P (ppm)** 64 **K (ppm)** 127

Plot Management

Tillage Operations: Moldboard Plow Field Cultivator

Fertilizer:	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	none	N/A	N/A
Starter	15-10-24	200	5/1/2003
Post plant	none	N/A	N/A
Manure	Manure	10800 gallons	9/15/2002

Herbicide: Dual 1.33 pt/A **Insecticide:** None
 Hornet 2.4 oz/A
 Atrazine 1.0 qt/A

Irrigation: None **Hybrid:** Pioneer 38K06

Planting Date: 5/1/2003 **Planting Depth:** 1.5" **Row Width:** Varies

Target Plant Density: Varies plants per acre **Planting Method:** John Deere 1750 planter

Harvest Date: 10/27/2003 **Harvest Method:** John Deere combine

Notes:

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 585' x 15' **Experiment Size:** 3.63 A
Harvest Plot size: 585' x 15'

Factors/Treatments:

<u>Row Spacing</u>	<u>Target Population</u>
Single 30"	30000
Twin 6" on 30" centers	45000
	60000

Results: Table C-62.

**Table C-62. Twin Row Corn Strip Trial
Marshfield, WI**

Row Spacing	Target population x 1000 ppa	Harvested population ppa	Broken Stalks %	Test Weight lb/bu	Grain	
					Moisture %	Yield bu/A
Single		42514	16.8	53.1	17.2	101
Twin		44876	21.3	53.1	17.1	98
	30	31479	4.1	53.9	15.9	107
	45	43966	13.0	53.5	17.1	102
	60	55641	40.0	51.9	18.4	90
Single	30	29969	1.5	54.0	15.8	109
Single	45	42630	14.4	53.5	17.0	102
Single	60	54944	34.5	51.8	18.6	93
Twin	30	32989	6.7	53.8	16.0	106
Twin	45	45302	11.6	53.5	17.2	102
Twin	60	56338	45.5	52.0	18.2	87
Mean		43695	19.0	53.1	17.1	100
Probability (%)						
Row Spacing (S)		8.4	29.1	>50	>50	6.3
Population (P)		<0.1	<0.1	<0.1	<0.1	<0.1
S x P		>50	39.6	>50	32.9	24.9
LSD 10%						
Row Spacing (S)		2237	NS	NS	NS	2
Population (P)		2740	8.8	0.5	0.3	3
S x P		NS	NS	NS	NS	NS
C.V. (%)						
		6	45	1	2	3