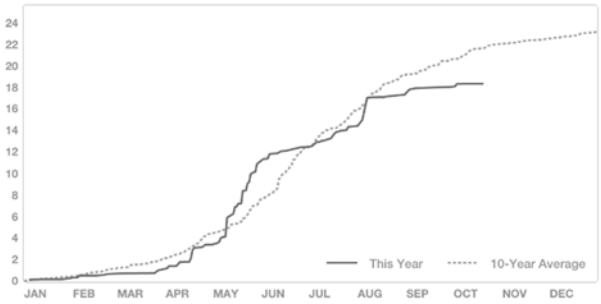
Nebraska On-Farm Research Network

Soybean Row Spacing (15" vs 30")

Study ID: 179029201501
County: Chase
Soil Type: Valent loamy sand; Valent sand;
Planting Date: 5/26/15
Harvest Date: 10/12/15
Population: 150,000
Row Spacing (in.) 30
Hybrid: Asgrow 2733
Reps: 6
Previous Crop: Corn
Tillage: No-Till
Herbicides: ***Pre:*** 7 oz/ac Anthem on 5/5 ***Post:*** 32 oz/ac of RoundUp and 4 oz/ac Dual II Magnum on 6/20
Seed Treatment: Inoculant
Foliar Insecticides: none
Foliar Fungicides: none

Fertilizer: Triple nickel 8-20-5-5 (S) -0.5 (Zn) at 15 gal/ac or 155 lb/ac and 102 lb/ac dry potash 60% K2O on 5/27;
10 gal/ac 32-0-0 AMS with glyphosate on 6/20;
10 gal/ac 26-0-3-5 sulfur with chemigation on 7/6
Note: less volunteer corn observed in 15 inch rows
Irrigation: Pivot, Total: 12.75"
Rainfall (in.):



Introduction: Research from UNL's Soybean Management Field Days showed a yield benefit for 15" row spacing compared to 30" rows. In this study, the grower wanted to look at yield effects due to 15" and 30" row spacing in their own soybean field.

Results:

	Yield (bu/ac)†	Marginal Net Return ($/ac)‡
Row Spacing 15"	78 A*	694.20
Row Spacing 30"	74 B	658.60
P-Value	*0.0024*	*N/A*

†Bushels per acre corrected to 13% moisture.
*Values with the same letter are not significantly different at a 90% confidence level.
‡Net Return based on $8.90/bu soybeans.

Summary: Results of this study showed a significant 4 bu/ac yield increase for the 15" row spacing treatment. This resulted in an increase in net return.

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