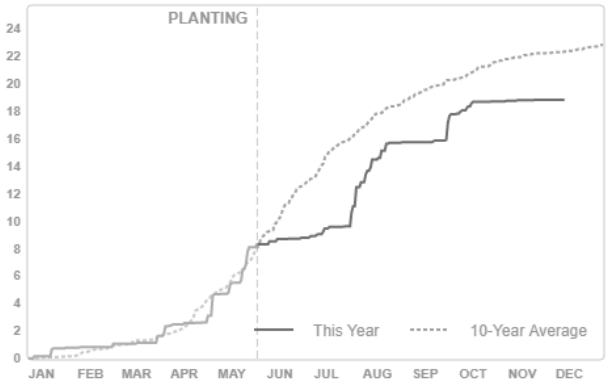
15" vs 30" Row Spacing for Soybeans

Study ID: 238135201701
County: Perkins
Soil Type: Valent loamy sand 3-9% slopes; Valent loamy sand 0-3% slope; Woodly fine sandy loam 0-3% slope
Planting Date: 5/26/17
Harvest Date: 10/28/17
Population: 120,000
Variety: Curry 1264
Reps: 5
Previous Crop: Corn
Tillage: No-Till
Herbicides: ***Pre:*** Authority MTZ, 32 oz/ac Durango®, and 8 oz/ac generic 2,4-D on 4/15/17 ***Post:*** 40 oz/ac Durango®, 0.9 oz/ac Cadet®, 6.5 oz/ac Superb®, 8.5 oz/ac Clethodim® on 6/21/17; 48 oz/ac Durango®, 0.6 oz/ac Cadet®, 8 oz/ac Class Act®, and 8 oz/ac Superb® on 7/11/17; 48 oz Durango® on 7/25/17
Seed Treatment: fungicide and inoculant
Foliar Insecticides: None
Foliar Fungicides: None
Fertilizer: Starter: 2 gal/ac of 10-34-0, 2 gal/ac 12-0-0-26, 0.5 gal/ac Aurora bean starter, 0.5 gal/ac Sure-K, 0.11 gal/ac Attain, 0.5 gal/ac fulvic acid, and 0.11 gal/ac sugar on 5/27/17; Chemigation: 2.5 gal/ac 32-0-0, 2.5 gal 12-0-0-26, 3.9 gal/ac 0-0-12 on 8/18
Irrigation: Pivot, Total: 13"
Rainfall (in):



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

Results:

	Moisture (%)	Yield (bu/acre)†	Marginal Net Return‡ ($/ac)
15"	12.6 B*	62 A	553.06 A
30"	13.5 A	48 B	425.02 B
P-Value	0.011	0.001	0.001

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

Summary:

- Soybeans planted in 15" rows were about 0.9 percent drier than the beans planted in 30" rows.
- Yield was 14 bu/ac greater for soybeans planted in 15" rows compared with soybeans planted in 30" rows.
- The soybeans planted in 15" rows had a significantly greater marginal net return.

Sponsored by: University of Nebraska Lincoln; Nebraska Corn Board; Nebraska Soybean Checkoff

In Partnership with: Nebraska Corn Growers Association; Nebraska Dry Bean Commission