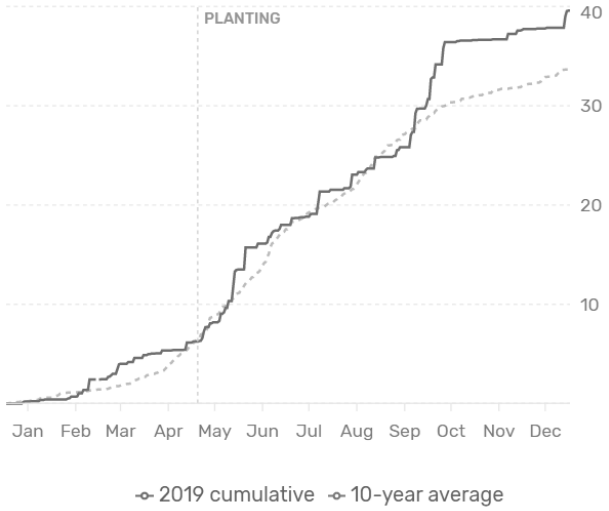
15" vs 30" Row Spacing for Soybeans

Study ID: 0849155201903
County: Saunders
Soil Type: Tomek silt loam 0-2% slope; Yutan silty clay loam terrace, 2-6% slopes, eroded; Filbert silt loam 0-1% slope; Fillmore silt loam terrace, occasionally ponded
Planting Date: 5/4/19
Harvest Date: 10/22/19
Seeding Rate: 157,000
Variety: Pioneer® P36A18X
Reps: 10
Previous Crop: Corn

Irrigation: Pivot
Rainfall (in):



Introduction: The objective of this study was to evaluate soybeans planted in 15" and 30" row spacings. The treatments were established by using two different planters – a John Deere® 1775NT with 30" row spacing and a John Deere® 1795NT with 15" row spacing. Both planters were 40' implements with MaxEmerge™ 5 technology. Yield was recorded using a GreenStar™ 3 2630 yield monitor in a John Deere S650 combine.

Results:

	Moisture (%)	Yield (bu/ac)†
15"	12.33 A*	72 A
30"	12.28 B	68 B
P-Value	0.012	0.0001

*Values with the same letter are not significantly different at a 90% confidence level.
†Yield values are from cleaned yield monitor data. Bushels per acre adjusted to 13% moisture.
‡Marginal net return based on $8.10/bu soybean.

Summary: The 15" row spacing resulted in a 4 bu/ac yield increase compared to the 30" row spacing.

Sponsored by: University of Nebraska Lincoln

In Partnership with: Nebraska Corn Board, Nebraska Soybean Checkoff, Nebraska Corn Growers Association, Nebraska Dry Bean Commission