

Irrigated Soybean Population Study

Study ID: 0153111201902

County: Lincoln

Soil Type: Cozad silt loam 0-1% slope

Planting Date: 6/3/19

Harvest Date: 10/8/19

Row Spacing (in): 30

Variety: Pioneer® P29A25X

Reps: 4

Previous Crop: Sorghum

Tillage: No-Till

Herbicides: *Pre:* 32 oz/ac Roundup® and 12 oz/ac Authority® MTZ *Post:* 1.33 pt/ac Brawl® II, 8 oz/ac clethodim, and 32 oz/ac Roundup®

Seed Treatment: LumiGEN™

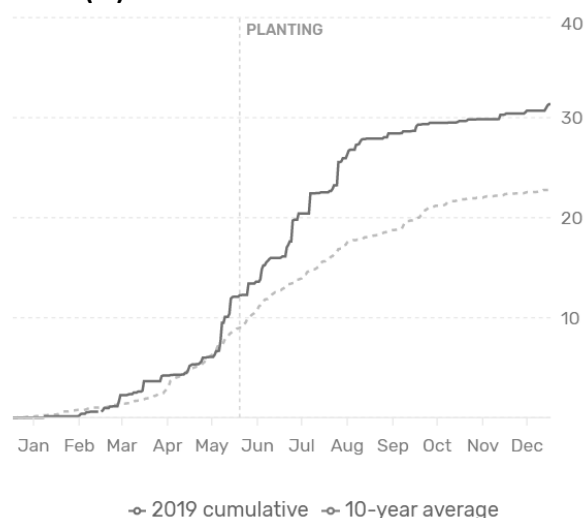
Foliar Insecticides: None

Foliar Fungicides: None

Fertilizer: None

Irrigation: Linear-move, Total: 2.6"

Rainfall (in):



Introduction: Previous on-farm research has demonstrated that soybean planting rates of 80,000 to 120,000 seeds/ac resulted in the highest profitability. The purpose of this study was to evaluate four seeding rates to determine the seeding rate that maximized yield and profit. The target seeding rates were 100,000, 120,000, 150,000, and 180,000 seeds/ac.

Results:

	Moisture (%)	Yield (bu/ac)†	Marginal Net Return‡ (\$/ac)
100,000 seeds/acre	11.8 A*	40 A	277.89 A
120,000 seeds/acre	11.7 A	40 A	275.15 A
150,000 seeds/acre	11.7 A	41 A	265.10 A
180,000 seeds/acre	11.9 A	42 A	260.83 A
P-Value	0.677	0.631	0.542

*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 and \$60/140,000 seeds/ac.

Summary: There was no difference in yield, grain moisture, or net return between the seeding rates evaluated.

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