



Nebraska On-Farm Research Network

Rainfed Soybean Population Study

Study ID: 028109201402

County: Lancaster

Soil Type: Aksarben silty clay loam

Planting Date: 5/19/2014

Harvest Date: 10/17/2014

Row Spacing: 20"

Hybrid: Asgrow 34-32 RR

Reps: 5

Previous Crop: Corn

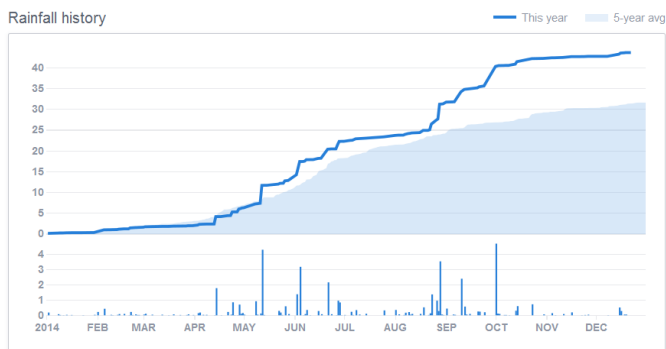
Tillage: No-till

Herbicides:

Pre: Authority XL, Anthem, Sharpen, 2,4-D LV6, Roundup PowerMAX

Post: Roundup PowerMAX, Fusilade

Insecticides/Fungicides: Fungicide seed treatment



Introduction: The purpose of this study was to determine the most profitable rainfed soybean seeding rates. The population chosen in this study are commonly used by growers in Eastern Nebraska.

Results:

	Yield† (bu/acre)	Moisture (%)	Harvest Pop	Net Return ‡
120,000 seeds/ac	64 A*	11.2 A	101,200 C	\$598.88
150,000 seeds/ac	63 A	11.4 A	125,600 B	\$578.23
180,000 seeds/ac	64 A	11.3 A	144,200 A	\$577.87
P-Value	0.8827	0.3773	0.0005	---

†Bushels per acre corrected to 13.0% moisture.

*Values with the same letter are not significantly different at a 90% confidence level.

‡Net return based on \$10/bu soy, \$48.32/unit seed (140K spu).

Summary: There was no significant yield difference for populations studied. Based on the cost of seed the most economical planting population was 120,000 seeds per acre.

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