

Impact of Starter Fertilizer on Soybean

Study ID: 1127001202001

County: Adams

Soil Type: Holder silt loam

Planting Date: 5/15/20

Harvest Date: 10/5/20

Seeding Rate: 150,000

Row Spacing (in): 36

Hybrid: Aurora Cooperative 3019E3

Reps: 6

Previous Crop: Corn

Tillage: No-Till

Herbicides: **Post:** 1 qt/ac Liberty® 280 SL and 3 pt/ac Sequence® on 6/21/20

Seed Treatment: Signum® inoculant, CruiserMaxx®

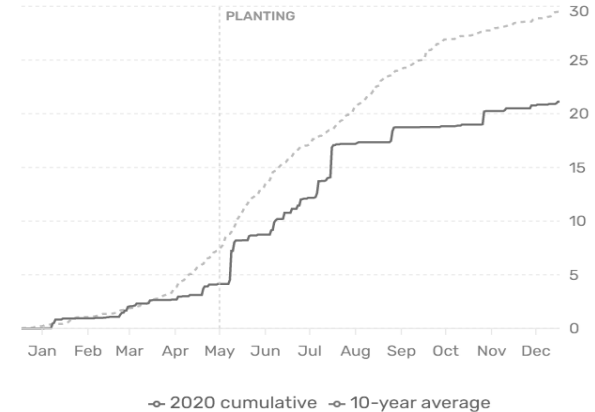
Foliar Insecticides: None

Foliar Fungicides: None

Fertilizer: 100 lb/ac MAP, 64 lb/ac AMS, 3.5 lb/ac 36% zinc, on 3/15/20; 1 qt/ac Aurora Cooperative Heighten™ foliar fertilizer on 6/21/20

Irrigation: Pivot, Total: 10"

Rainfall (in):



Soil Samples (November 2018, minimum, maximum, and average values from grid sample):

	pH	Buffer pH	P (ppm)	K (ppm)	OM	CEC	S (ppm)	Calcium (ppm)	Magnesium (ppm)	Zn (ppm)	% Base Saturation			
											K	Ca	Mg	Na
Min	5.6	6.5	15.2	277.3	1.4	10.5	3.9	1472	212	0.8	5	47	14	1
Max	7.1	7.2	71.5	521.8	2.6	18.4	9	2817	418	3.6	8	76	21	1
Avg	6.5	7	32.2	360.3	1.8	13.7	6.7	1892.2	294.9	2.3	6.9	68.8	18.1	1

Introduction: The purpose of this study was to evaluate the impact of Aurora Bean Starter™ on soybeans. Aurora Bean Starter™ is a proprietary micronutrient blend from Aurora Cooperative. Stand counts were taken on June 26, 2020, at V5 growth stage and on September 30, 2020, prior to harvest. Yield and net return were evaluated.

Results:

	Early Season Stand Count (plants/ac)	Harvest Stand Count (plants/ac)	Yield (bu/ac)†	Marginal Net Return‡ (\$/ac)
Check	163,717 A*	149,435 A	79 A	750.78 A
1 qt/ac Aurora Bean Starter™	163,368 A	149,870 A	79 A	739.27 A
P-Value	0.953	0.894	0.947	0.594

*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 \$9.50/bu soybean and \$10/ac for Aurora Bean Starter.

Summary: There were no statistically significant differences in stand counts, yield, or net return between the soybeans with Aurora Bean Starter™ and the check.

Sponsored by:



In Partnership with:

