

Impact of Compass Minerals® Season Long Program on Soybeans

Study ID: 1116081202001

County: Hamilton

Soil Type: Ortello fine sandy loam; Thurman fine sandy loam; Coly silt loam

Planting Date: 4/22/20

Harvest Date: 9/21/20-9/22/20

Population: 115,000

Row Spacing (in): 30

Hybrid: LG Seeds® 2417

Reps: 3

Previous Crop: Corn

Tillage: No-Till

Herbicides: *Pre:* Dual® II Magnum and Roundup®

Post: Roundup® and Warrant®

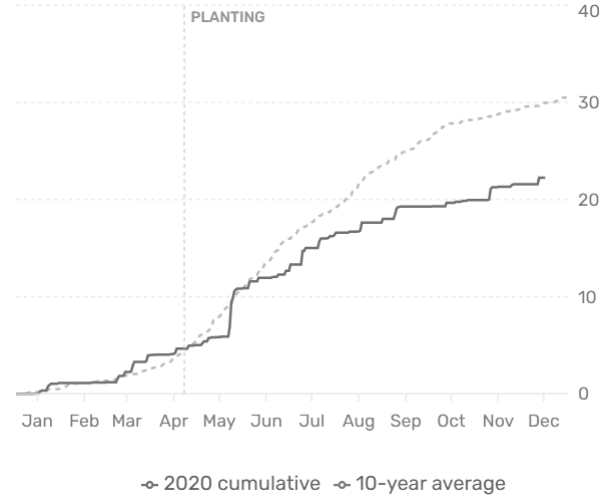
Foliar Insecticides: None

Foliar Fungicides: Delaro®

Fertilizer: None

Irrigation: Pivot, Total: 6"

Rainfall (in):



Introduction: This study evaluated Compass Minerals® season long program for soybeans versus an untreated check. The Compass Minerals® season long program is outlined below:

- At planting, Rocket Seeds Moly Dry was used at a rate of 3 oz/50 lb seed as a replacement for talc. Rocket Seeds Moly Dry is a dry seed nutritional with a formulation of 1.5% Fe, 3% Mn, 3% Mo, and 10.5% Zn.
- Also, at planting Abundance® was applied in furrow at 1.5 pt/ac. Abundance® is a soil inoculant containing *Bacillus amyloliquefaciens*, *Bacillus subtilis*, and *Bacillus pumilus*.
- At flowering, a foliar application of 7 oz/ac of ProAcqua® Pulse was applied. ProAcqua® Pulse contains 6% P, 4% K, 1% Mg, 1.3% S, 0.5% Co, 10% Mo, 1.5% Ni, and 6% Zn.
- At beginning seed development, a foliar application of 3 lb/ac of ProAcqua® Flow was applied. ProAcqua® Flow contains 5% N, 10% P, 20% K, 9% Mg, 11.5% S, and 0.5% B.

Results:

| | Moisture (%) | Yield (bu/ac)† | Marginal Net Return‡ (\$/ac) |
|---------------------------------------|--------------|----------------|------------------------------|
| Control | 10.8 A* | 89 A | 846.48 A |
| Compass Minerals® season long program | 10.6 A | 92 A | 857.82 A |
| P-Value | 0.346 | 0.227 | 0.579 |

*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 \$18.50/ac for Compass Minerals® season long program.

Summary: There was no difference in moisture, yield, or net return between the Compass Minerals® treatment and the untreated check.

Sponsored by:



In Partnership with:

