

Stride Bio® as Micronutrient Seed Treatment

Study ID: 1248185202401

County: York

Soil Type: Hastings silt loam 0-1% slope

Planting Date: 5/11/24

Harvest Date: 9/20/24

Population: 130,000

Row Spacing (in): 30"

Variety: Asgrow® AG24XF3

Reps: 5

Previous Crop: Corn

Tillage: Stalk Shredding- March

Herbicides: Pre: 6 oz/ac Zidua Pro® + 30 oz/ac

glyphosate **Post:** 22 oz/ac XtendiMax® + 30 oz/ac

glyphosate applied 5/26/24. 36 oz/ac Liberty® + 24

oz/ac glyphosate applied 6/23/24.

Seed Treatment: Variable

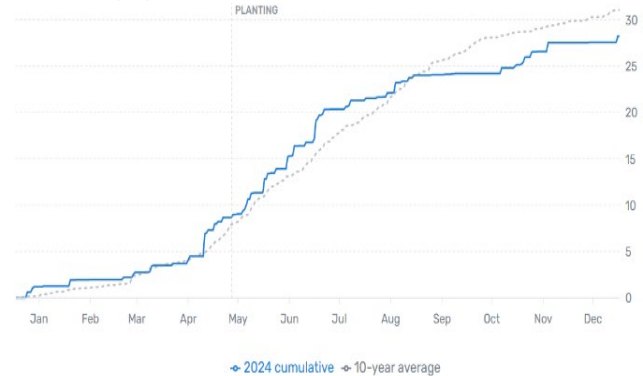
Foliar Insecticides: None

Foliar Fungicides: None

Fertilizer: None

Irrigation: Pivot 6"

Rainfall (in):



Introduction: Stride Bio® is an 80/20 talc graphic blend for planters that also contain Calcium, Magnesium, Sulfur, Iron, Manganese, and Zinc. It was shown to have a return on investment in Beck's® and Precision Planting® research results. The growers were interested in an alternative to the usual graphite mixture, and they needed a talc/graphite seed coating at planting. They wanted to test this product on-farm research to see if it would increase yield and economics.

Results:

	Stand Count (plants/ac)	Moisture (%)	Yield (bu/ac)†	Marginal Net Return‡ (\$/ac)
Check	85,200 A	10.7 A	78 A	854 A
Stride Bio®	85,200 A	10.8 B	78 A	845 A
P-Value:	0.99	0.1	0.98	0.16

*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 \$11/bu soybean and \$9/ac Stride Bio® cost

Summary:

- There were no significant differences between stand counts, yield, or marginal net return between treatments.
- There was a significant difference in moisture.
- Harvest stand counts were identical at harvest (85,200 plants/ac), suggesting similar soybean growth during the growing season.
- Rainfall was above average for most of the growing season (May-August).
- Further studies should be conducted in various planting scenarios to determine Stride Bio® efficacy.