

Nebraska On-Farm Research Network

Aegis® ESR on Dryland Corn at V5

Study ID: 186085201501

County: Hayes

Soil Type: Blackwood silt loam;

Planting Date: 5/25/15

Harvest Date: unknown

Population: unknown

Row Spacing (in.) 30

Hybrid: unknown

Reps: 8

Previous Crop: Wheat

Tillage: No-Till

Herbicides: *Pre:* unknown *Post:* unknown

Seed Treatment: unknown

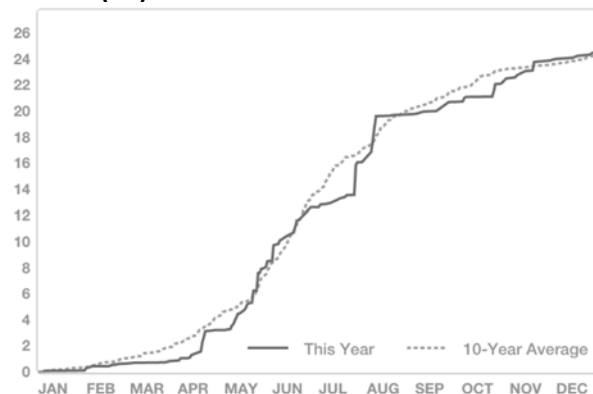
Foliar Insecticides: unknown

Foliar Fungicides: unknown

Fertilizer: unknown

Irrigation: None

Rainfall (in.):



Introduction: The purpose of this study was to determine if an application of Aegis® ESR plant growth stimulator would increase yield and profitability on dryland corn. Aegis® ESR was applied with a high clearance applicator at a rate of 5 oz/acre at the V5 growth stage. This product is expected to be applied with a post herbicide application. Yields were harvested from treated and untreated strips and collected from yield monitor data. Product active ingredients are below.

Aegis® ESR

- PLANT GROWTH STIMULATOR
- PROTEIN ENHANCER

- AEGIS® ESR INCREASES THE INTAKE OF NUTRIENTS THAT ARE NECESSARY FOR PLANT GROWTH RESULTING IN IMPROVED YIELD
- AEGIS® ESR PROTEIN ENHANCER INCREASES THE UTILIZATION OF PROTEINS THAT ARE NECESSARY FOR PLANT GROWTH
- AEGIS® ESR PROTEIN ENHANCER INCREASES THE SYNTHESIS OF PROTEINS THAT ARE NECESSARY FOR PLANT GROWTH RESULTING IN IMPROVED YIELD

ACTIVE INGREDIENTS:

Sodium p-nitrophenolate	0.30%
Sodium o-nitrophenolate	0.20%
Sodium 5-nitroguaiacolate	0.10%

OTHER INGREDIENTS: 99.40%

TOTAL: 100.00%

This product contains 0.03 lbs. of sodium p-nitrophenolate, 0.02 lbs. of sodium o-nitrophenolate, and 0.01 lb. of sodium 5-nitroguaiacolate per gallon.

Product information from:

http://www.kellysolutions.com/ok/showproductinfo.asp?Product_Name=Aegis+ESR+Plant+Growth+Stimulator&EPA_Id=64922-1-90441

Results:	Yield (bu/ac)†	Marginal Net Return (\$/ac)‡
Check	148 A*	540.20
Aegis® ESR	149 A	539.85
<i>P-Value</i>	0.4751	N/A

†Bushels per acre corrected to 15.5% moisture.

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

‡Net Return based on \$3.65 corn and \$4/acre Aegis® ESR cost.

Summary: There was no significant yield difference between the Aegis® ESR treatment and the check. Marginal net return was lower for the Aegis® ESR treatment due to the increased cost of production which was not recovered.

This study was sponsored in part by: LTA Resource Management.



In Partnership with:

