

Nebraska On-Farm Research Network

Aegis® ESR on Dryland Corn at VT

Study ID: 184135201501

County: Perkins

Soil Type: Kuma silt loam;

Planting Date: 5/15/15

Harvest Date: 10/15/15

Population: 15,000

Row Spacing (in.) 30

Hybrid: Pioneer P0506

Reps: 7

Previous Crop: Wheat

Tillage: No-Till

Herbicides: **Pre:** 32 oz/ac of Durango (glyphosate) and 8 oz/ac dicamba (generic) on 6/1/15 **Post:** 32 oz/ac of Durango (glyphosate), 8 oz/ac Status, and 8 oz/ac Dual (generic) on 7/1/15

Seed Treatment: Poncho

Foliar Insecticides: unknown

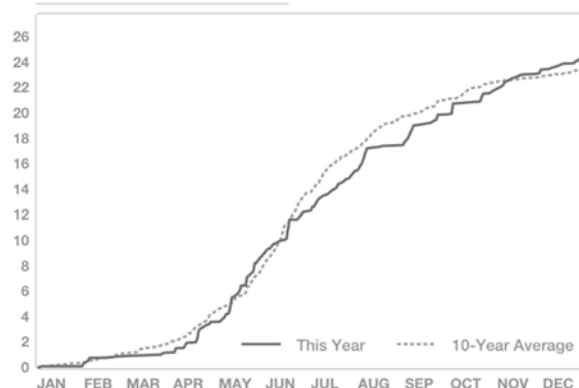
Foliar Fungicides: unknown

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 aerially applied at a rate of 5 oz/acre at the VT growth stage. Yields were harvested from treated and untreated strips and collected from yield monitor data. Product label with active ingredients is at right. Product active ingredients are below.

Fertilizer: 132 lbs/ac of 32-0-0, 132 lbs/ac of 28-0-0.5, and 132 lbs/ac of 9-27 on 5/15/15

Irrigation: None

Rainfall (in.):



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	131 A*	478.15
Aegis® ESR	131 A	464.65
P-Value	0.9405	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, \$4/acre Aegis® ESR cost, and \$9.50/ac aerial application 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.

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In Partnership with:

