

Nebraska On-Farm Research Network

Aegis® ESR on Dryland Corn at VT

Study ID: 185135201501

County: Perkins

Soil Type: Valent loamy sand; Dailey loamy sand;
Woody fine sandy loam; Rosebud-Canyon loam;

Planting Date: 5/15/15

Harvest Date:

Population: 17,000

Row Spacing (in.) 30

Hybrid: Pioneer 35F50

Reps: 9

Previous Crop: Wheat

Tillage: No-Till

Herbicides: *Pre:* Glyphosate + Dicamba on 5/15/15 *Post:*
BalanceFlex + Fulltime + Glyphosate (lable rates) on
6/23/15

Seed Treatment: Pioneer Poncho based seed treatment

Foliar Insecticides: none

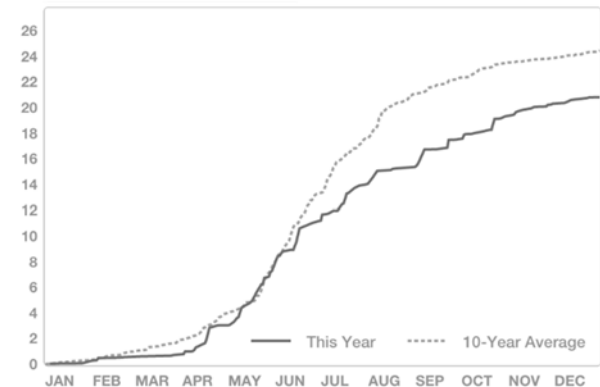
Foliar Fungicides: none

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 active ingredients are below.

Fertilizer: 100 lbs N + 30 lbs P + 12 lbs S + 0.5 lbs
Micronutrients via planter and sprayer 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:	<u>99.40%</u>
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	82 A*	299.30
Aegis® ESR	79 A	274.85
P-Value	0.1049	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:

