

## Nebraska On-Farm Research Network

### Aegis® ESR on Irrigated Corn at VT

**Study ID:** 183135201501

**County:** Perkins

**Soil Type:** Valent loamy sand; Woody loamy fine sand; Ascalon fine sandy loam;

**Planting Date:** 5/21/15

**Harvest Date:** 10/16/15

**Population:** 34,000

**Row Spacing (in.)** 30

**Hybrid:** DeKalb 5438

**Reps:** 7

**Previous Crop:** Unknown

**Tillage:** Strip-till

**Herbicides:** **Pre:** unknown **Post:** 30 oz/ac Buccaneer (glyphosate) and 2 oz/ac Status on 6/1/15; 30 oz/ac Buccaneer (glyphosate) and 15 oz/ac Dual (generic - Parallel) on 6/18/15.

**Seed Treatment:** none

**Foliar Insecticides:** None

**Foliar Fungicides:** 50 oz/ac Clorox on 8/7/15, 8/14/15 and 8/24/15

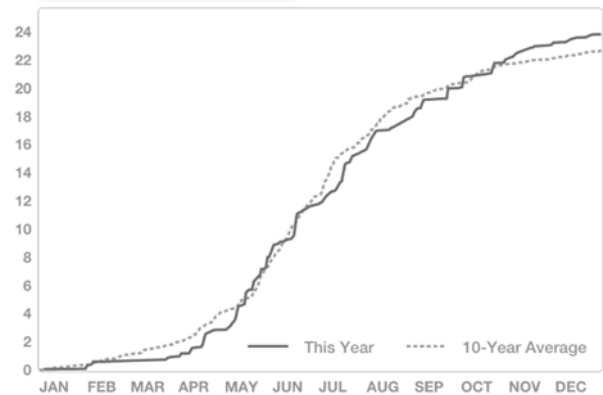
**Fertilizer:** 100 lb/ac 11-52-0, 100lb/ac 0-0-60, and 100 lb/ac 46-0-0 on 3/25/15;

5 gal/ac 6-21-6 on 5/21/15 (pop up w/ Seed);

40 gal/ac 28-0-5 sidedress on 6/18/15

**Irrigation:** Pivot, Total: 13"

**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 irrigated corn. Aegis® ESR was applied with an aerial application 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.

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

Results:	Yield (bu/ac)†	Moisture (%)	Marginal Net Return (\$/ac)‡
Check	207 A*	31.2 A	755.55
Aegis® ESR	208 A	31.1 A	745.70
P-Value	0.742	0.6498	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.

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



In Partnership with:

