



Nebraska On-Farm Research Network

Ascend® Growth Regulator on Corn

Study ID: 008041201401

County: Custer

Soil Type: Hall silt loam

Planting Date: 5/3/2014

Harvest Date: 11/5/2014

Population: 34,500

Row Spacing: 36"

Hybrid: Pioneer 1151AMX

Reps: 8

Soil Test Values: not available

Previous Crop: Corn

Tillage: Strip till

Herbicides: Pre: Banvel

Post: Guardsman Max,
Glyphosate

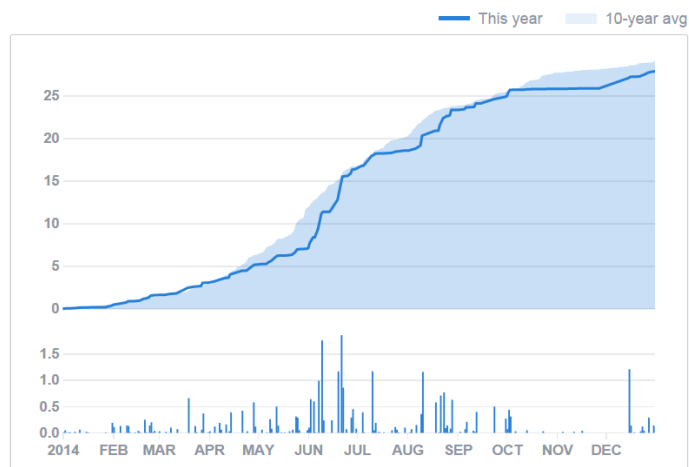
Fertilizers: Strip till fertilizer 58 lb/ac N, 40 lb/ac P, 8.5 lb/ac S, 0.5 lb/ac Zn, 2"x2" 41 lb/ac of N, 3 lb/ac of S, in seed furrow 5 lb/ac of N,

18 lb/ac of P, and 0.25 lb/ac Zn, 92 lb/ac N, 10 lb/ac S, side dress 10" off row, 3" down.

Note: Hail damage with 30% defoliation at 17 leaf stage with some lodging; 30% additional defoliation with stalk bruising at blister stage.

Irrigation: Pivot

Rainfall:



Introduction: This study is looking at the effects of a growth promoter product applied at planting time on yield. The growth regulator Ascend® was applied at planting time at the rate of 6 fl oz/ac. The field was the second year of corn in a corn/corn/soybean rotation and was planted with strip-till planting methods. The Ascend® treatment was compared to planting without a growth promoter treatment. Product label and ingredients are at right.

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ASCEND [®]	
PLANT GROWTH REGULATOR	
<i>Hormone compounds to stimulate plant growth. Concentrations based on biological activity.</i>	
ACTIVE INGREDIENTS	
*Cytokinin, as Kinetin	0.090%
*Gibberellic Acid.....	0.030%
*Indole Butyric Acid	0.045%
OTHER INGREDIENTS	99.835%
TOTAL	100.000%
*Contains 0.03 oz. cytokinins/qt.	
*Contains 0.015 oz. indole butyric acid/qt.	
*Contains 0.01 oz. gibberellic acid/qt.	

Results:

	Yield† (bu/acre)	Net Return ‡
Check	154 A*	\$539.00
Ascend[®]	155 A	\$531.00
P-Value	0.2436	--

†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 \$3.50/bu corn price and \$11.40/ac treatment cost.

Summary: The Ascend[®] treatment did not result in a significant yield increase. Net returns for Ascend[®] treated corn were lower due to increased cost of production which were not recovered.



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