



Nebraska On-Farm Research Network

Years: 2013
Title: Ascend Growth Regulator
Crop: Corn
County: Platte
Study ID: 085141201302
Objective: Determine the profitability of including Ascend growth regulator in starter fertilizer
Treatments: Ascend in furrow (5oz)
Starter Fertilizer Only
Starter Fertilizer + Ascend in furrow (Corn on Corn)

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Information: 2013 Ascend Growth Regulator

Accelerate leaf, stem and root growth and health with Ascend® plant growth regulator. Ascend® plant growth regulator contains an optimum combination of three plant growth regulators and can be used as a seed treatment, in furrow or as a foliar application. Ascend® plant growth regulator can also be applied by ground, air or chemigation.

Cytokinin is a natural plant growth regulator that promotes cell division and leaf expansion while slowing leaf aging. Gibberellic acids are naturally occurring plant growth regulators that stimulate cell division and elongation in leaves and stems. Indolebutyric acid is a plant growth regulator that stimulates vigorous root formation and development, and increases cell elongation.

Application Rate and Timing

A typical foliar use rate is 3.2 ounces per acre for Ascend® plant growth regulator in most crops. Use 4.5 to 6 ounces per acre for corn in furrow. Ascend® plant growth regulator may be applied multiple times in most crops. Use 1 to 4 ounces per one hundred pounds of seed as a seed treatment. See label for specific rates and timing for each crop.

Ingredients

Cytokinin, as kinetin* 0.090%, Gibberellic acid* 0.030%, Indolebutyric acid* 0.045%, Other ingredients 99.835%
Total 100%

* Contains 0.03 ounce cytokinin, 0.015 ounce indolebutyric acid and 0.01 ounce gibberellic acid per quart.
Ascend® plant growth regulator weighs 9.3 pounds per gallon.

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Results: 2013

Ascend Growth Regulator

	Yield	Moisture	Cost/A
Starter Only (Check)	253.8 A	17.7 A	--
Starter + Ascend	253.9 A	17.9 A	\$5.09
Prob>/T/	ns	ns	

Dekalb 6342 VT3 Xcelleron Planting date 5/13/2013 - Harvest date 10/25/13, 10" Flood, Corn on Corn
Planted 12 rows with Ascend(5oz./ac) and Kugler 1515(5gal/ac) in furrow
Then 12 rows without Ascend but with Kugler 5 gal./ac 1515 in furrow
Soil Test OM 2%, P+ 39, P-116, K424, Mg229, Ca12343, Na55, pH7.8, Boron 0.7, Maganese 5, Iron 12, CEC 14.9,
Copper 0.6, Nitrate Fall 12 - 62 lbs N 0-8", Sulfur 26, Zn 5
N 75#, K-Mag 50#, Mez 12-40-0-10-1 75#

SUMMARY: There was no statistical yield or moisture differences as a result of the use of Ascend in-furrow at planting. The control treatment had the best return on investment.

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