



**AgriSolutions Ascend In
Irrigated Corn
-A Plant Growth Regulator**

**18th Annual Kansas Ag. Research & Technology
Association (KARTA) Conference
January 22 and 23, 2015
Salina, Kansas**

www.kartaonline.org



**Kastens Inc. Farms
Rawlins County, Kansas
28339 Rd BB
Herndon, KS 67739
www.kastensinc.com**

Overview

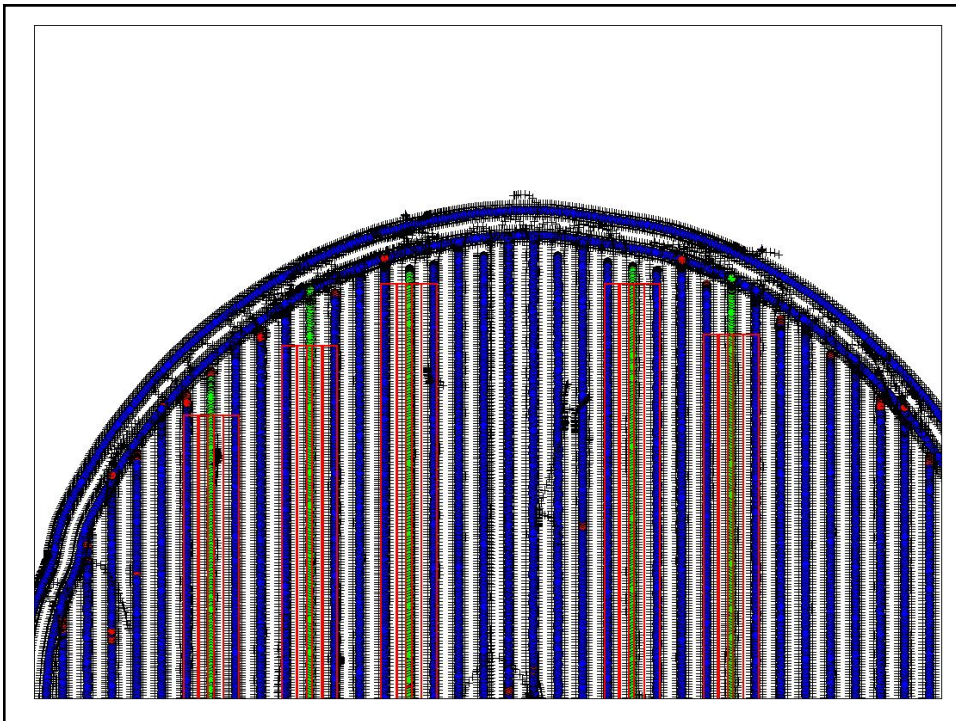
- AgriSolutions Ascend is promoted as a plant growth regulating product that is effective in increasing root mass and volume. This increased mass/volume are able to increase the uptake of water and nutrients, thus increasing yields.
- Ascend was tank-mixed with liquid starter fertilizer (10-20-0-5-0.5) and delivered through Keeton seed firmers at planting time at a rate of 6 oz/ac.
- <http://www.winfield.com/Products/ProductCategory/ProductDetail/ECMD2-0058473>

Overview

- Strip trials were used in 2012, 2013, and 2014 to evaluate Ascend treatment.
- Number of replications per year:
 - 2012: Pilot Project year 1, 1 replication in 1 field
 - 2013: 1st year of expanded trial, 13 replications across 3 fields
 - 2014: 2nd year of expanded trial, 34 replications across 5 fields

Procedure

- As with most of our product testing on Corn ground, a side-by-side strip trial was accomplished. The length of the strip was 1000' – 2000' long, and includes 12 harvested rows.
- Yields from the MPGM yield coverage (60' grids) were used along with planting data to build the database.
- Analyses were performed in Excel.



Results 2014

	206.9	207.2	-0.3
Field	Ascend	Control	Eval
A	196.0	199.7	-3.7
B	218.8	216.7	2.1
C	191.3	186.9	4.4
D	230.3	230.3	-0.1
E	198.0	202.3	-4.3

Table shows reps, averaged by Field. Total observations = 34

Results 2012-2014

				0.88837	
			Ttest	0.11163	NS
		211.3	207.8	3.5	48
Year	Field	Ascend	Control	Eval	obs
2014	A	196.0	199.7	-3.7	8
2014	B	218.8	216.7	2.1	2
2014	C	191.3	186.9	4.4	7
2014	D	230.3	230.3	-0.1	10
2014	E	198.0	202.3	-4.3	7
2013	F	243.1	242.1	1.0	6
2013	G	230.3	225.2	5.1	4
2013	E	126.6	122.4	4.3	3
2012	F	267.4	244.9	22.6	1

Table shows all reps, averaged by Field/year. Total observations = 48
 The Ttest pval fails to show significant difference between data series.
 The analyses cause us to "Fail to reject the null hypothesis"

Conclusions

As the study moves into the final year, we have not gained any clarity as to whether Ascend increases yields or not.

We will complete this study in 2015. Final analyses accomplished in the winter of 2015 will determine whether this product will be adopted on our farm.

