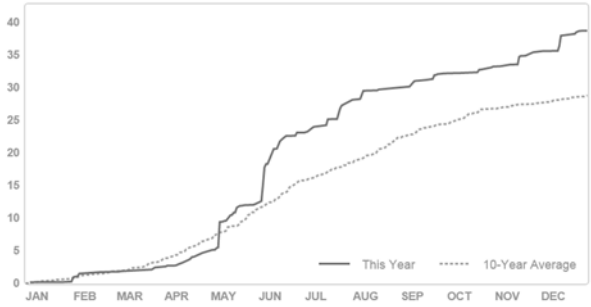
Nebraska On-Farm Research Network

Xanthion™ Fungicide on Corn

Study ID: 032035201504
County: Clay
Soil Type: Hastings silt loam; Hastings silty clay loam;
Planting Date: 4/15/15
Harvest Date: 10/14/2015
Population: 33,000
Row Spacing (in.) 30
Hybrid: Mycogen 2Y767
Reps: 6
Previous Crop: Soybean
Tillage: Conventional Till
Herbicides: ***Pre:*** 1.5 qt/ac. Lexar ***Post:*** Unknown
Seed Treatment: Unknown
Insecticides: 6 oz/ac Capture LFR soil applied
Foliar Fungicides: 10.5 oz/ac Quilt Xcel

Fertilizer: 11-52-0, zone applied, fall application;
180 lb. actual N/ac, fall application;
30 lb. actual N/ac, spring application;
20 lb. actual N/ac, foliar, spring application.
Note: June 4, Hail, 35% damage
Irrigation: Pivot, Total: 5.0"
Rainfall (in.):



Introduction: Xanthion™ is an in-furrow fungicide (product ingredient information at right). The product was evaluted at planting with the starter fertilizer application. The check treatment was the grower's standard starter fertilizer - 3 gal 6-24-6 with 1 qt/acre micromax (2% Magnesium, 0.25% B, 2% Zn, 1.6% Fe, 0.5%Cu). To test the effect of Xanthion™ 1.2 fl oz Component A and 6.0 fl oz of Component B were added to the standard starter treatment.

Xanthion™
In-furrow fungicide

For soilborne/seedling disease control and plant health using in-furrow applications to corn (field and sweet)

Active Ingredient: (Component A)
Bacillus subtilis, strain MBI 600* 5.00%
Other Ingredients: 95.00%
Total: 100.00%
* Contains not less than 2.2 x 10^{10} viable spores per mL

Active Ingredient*: (Component B)
pyraclostrobin: (carbamic acid, [2-[[[1-(4-chlorophenyl)-1*H*-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester). 23.60%
Other Ingredients:** 76.40%
Total: 100.00%
* Equivalent to 2.09 pounds of pyraclostrobin per gallon
** Contains petroleum distillates

EPA Reg. No. 7969-368 **EPA Est. No.**

Product information from: *http://www.cdms.net/ldat/ldC3D006.pdf*

Results:	Yield (bu/ac)†	Moisture (%)	Harvest Stand Count	Stalk Rot (%)	Marginal Net Return ($/ac)‡
Starter (3 gal 6-24-6 + 1 qt Micromax)	230 A	16.0 A	30,800 A	9 A	839.50
Starter + Xanthion	233 A*	16.0 A	29,200 A	4 A	841.24
P-Value	*0.2359*	*0.892*	*0.4716*	*0.298*	*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/bu corn and $9.21/ac Xanthion™ treatment.

Summary: There was no yield, moisture, stand count, or stalk rot difference between the standard starter fertilizer treatment and the starter fertilizer plus Xanthion™

In Partnership with: