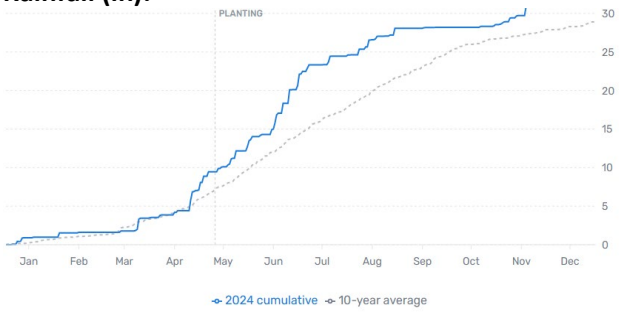
Evaluation of Xyway® LFR on Top of Furrow Application In Corn

Study ID: 1541011202401
County: Boone
Soil Type: Hall silt loam 0-1% slope
Planting Date: 5/10/24
Harvest Date: 10/09/24
Population: 34,000
Row Spacing (in): 30”
Hybrid: Pioneer™ P14830Q
Reps: 11
Previous Crop: Soybean
Tillage: No-till
Herbicides: ***Pre:*** 16 oz/ac AAtrex® 4L + 40 oz/ac Resicore® + 32 oz/ac Glyplex® + 12 oz/ac Defy® + 2,4-D LV6 ***Post:*** 16 oz/ac AAtrex 4L® + 40 oz/ac Resicore® + 32 oz/ac Glyplex™5 extra
Foliar Insecticides: 1.6 oz/ac Bifenture® 2EC on 5/15/24
Foliar Fungicides: 6 oz/ac Aproach® Prima applied through center pivot on 8/11/24

Fertilizer: Pell lime, 11-52-0, and 0-0-60 variable rate applied in March; 32-0-0/thiosulfate 95/5 blend at 10 g/ac applied on 5/25/24; 32-0-0/thiosulfate 90/10 blend at 10g/ac applied on 6/10, 7/15, /7/27, 8/1, and 8/23/24. Utrisha, 5 oz/ac on 6/20/24
Irrigation: Pivot
Rainfall (in):



Introduction: This study evaluated the impact of Xyway® LFR® fungicide on corn yield when applied at planting on top of the furrow. Xyway® LFR® contains the active ingredient flutriafol and was applied at a rate of 8 oz/ac. The grower’s goal is to see if applying Xyway® LFR® at planting can help avoid in-season aerial application. Xyway® LFR® was compared with untreated plots in a randomized complete block design and was replicated 11 times.

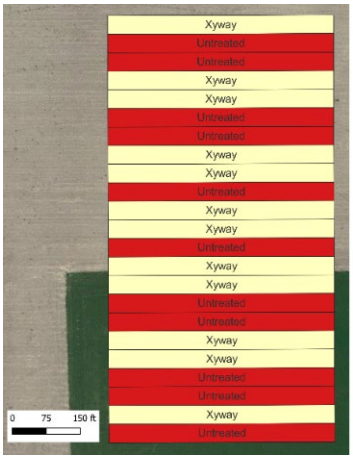


Figure 1: Project Design and Treatment Layout

Results:

	Moisture (%)	Yield (bu/ac)†	Marginal Net Return‡ ($/ac)
Check	21.6 A*	238 A	1,035 A
Xyway®LFR®	21.7 A	240 A	1,033 A
P-Value:	0.47	0.33	0.72

*Values with the same letter are not significantly different at a 90% confidence level.
†Bushels per acre corrected to 15.5% moisture
‡Marginal net return based on $4.35/bu corn, Xyway® cost $10.16/ac.

Summary:

- There was no significant difference in corn yield when applying Xyway® fungicide (238 bu/ac) against the untreated check (240 bu/ac).
- There was also no significant difference in marginal net return between the Xyway® application ($1,033/ac) and the untreated check ($1,035/ac).
- Disease pressure during the growing season can affect fungicide return on investment.