

2023 Western Kansas Corn Free Phos 24 Comparison Trial

On this Western Kansas farm, NH₃ was applied to the field during the spring using a Strip-till bar. Planting took place on May 6th, 2023, covering 20 acres with 3 gallons of Free Phos 24 per acre in-furrow. Half of these Free Phos 24 acres also received the seed treatment Tune Up+. An additional 20 acres were planted with 2 gallons of Lumen and 3 gallons of 10-34-0 fertilizer per acre, with half of them also receiving Tune Up+. Throughout the season, all other pre and post-plant nutrition applications remained consistent across treatments. The harvest on October 6th, 2023, revealed intriguing yield results: the field with Free Phos 24 and Tune Up+ yielded 215 bushels per acre, while the acres with just Free Phos 24 yielded 213 bushels

The acres treated with 2 gallons of Lumen and 3 gallons of 10-34-0 fertilizer averaged 190 bushels per acre. In comparison, the acres with 2 gallons of Lumen and 3 gallons of 10-34-0 fertilizer combined with Tune Up+ yielded 187 bushels per acre. Gross returns per acre for Free Phos treatments were \$1075 and \$1065, while for Lumen treatments, they were \$950 and \$935, respectively. These results shed light on the intriguing impact of different treatments on yield and returns.

TRIAL DETAILS

Crop: Corn
Location: Colby, Kansas
Plant Date: 05/06/2023
Harvest Date: 10/06/2023
Tillage: Strip Till
Variety: 1366Q

CHECK 1

2 gal/acre - Lumen
3 gal/acre - 10-34-0

CHECK 2

2 gal/acre - Lumen
3 gal/acre - 10-34-0
Seed Treatment - Tune Up +



Left 3 gal/acre Free Phos 24 | Right - 2 gal/acre Lumen +
3 gal/acre of 10-34-0

GROSS RETURN

Corn Price: \$5

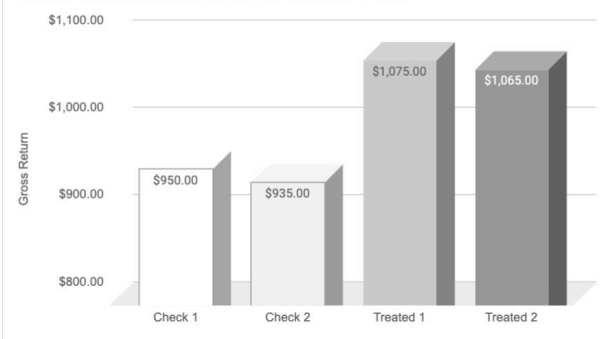
Gross Return Check 1: \$950/acre

Gross Return Check 2: \$935/acre

Gross Return Treated 1: \$1,075/acre

Gross Return Treated 2: \$1,065/acre

Gross Return Check 1 & 2 v. Treated 1 & 2



TREATED 1

3 gal/acre - Free Phos 24 in-furrow at planting

TREATED 2

3 gal/acre - Free Phos 24 in-furrow at planting
Seed Treatment - Tune Up +

AVERAGE YIELD

Check 1 Average Yield: 190 bu/acre

Check 2 Average Yield: 187 bu/acre

Treated 1 Yield: 213 bu/acre

Treated 2 Yield: 215 bu/acre