

2023 No-Till Corn Trial in Kentucky with Free Phos 24

In this no-till trial in Bardwell, Kentucky, a field received an application of 6 gallons per acre of 10-34-0, along with 100 pounds per acre of DAP broadcast. On May 23rd, Free Phos 24 was applied foliarly at a rate of 1 gallon per acre, mixed with 10 gallons of water, over 20 acres.

The entire field then received a 37-gallon per acre nitrogen application on June 7th. After harvesting on September 16th and cleaning the yield data to remove anomalies, the average yield was found to be 223 bushels per acre in untreated areas, and 231 bushels per acre where Free Phos 24 was applied.

The corn price of \$5 per bushel, the addition of Free Phos 24 resulted in an enhanced gross return of **\$40 more per acre**. This equates to \$1,155 per acre for the treated areas, compared to \$1,115 for the untreated.



Yield Map of Whole Field

TRIAL DETAILS

Crop: Corn
Location: Bardwell, Kentucky
Planting Date: 5/4/2023
Harvest Date: 9/16/2023
Tillage method: No tillage
Varieties: DKC 6270, DKC 68

CHECK

6 gal/acre - 10-34-0 (2x2)
100# of DAP
37 gal/acre - Nitrogen - 6/7

TREATED

6 gal/acre - 10-34-0 (2x2)
100# of DAP
1 gal/acre - Free Phos 24 (Foliar) - 5/23
37 gal/acre - Nitrogen - 6/7

AVERAGE YIELD

Check Average Yield: 223 bu/acre
Free Phos 24 Average Yield: 231 bu/acre

Gross Return Check v. Free Phos 24



GROSS RETURN

Corn Price: \$5
Check Gross Return: \$1,115/acre
Free Phos 24 Gross Return: \$1,155/acre



Yield Map of Free Phos 24 Treatment