2021 University of Nebraska Corn Trial with Free Phos 24

FREE HOS24

The 2021 University of Nebraska Corn Trial, conducted in York County, Nebraska, compared the efficacy of two starter fertilizers: Free Phos 24 (8-24-0-0.25 Zn) and 10-34-0, applied at a rate of 3 gallons per acre.

Planted on May 3rd and harvested on September 23rd, the trial revealed a slight yield advantage for Free Phos 24, producing 276 bushels per acre, while 10-34-0 yielded 272 bushels per acre. This statistically significant difference at a 90% confidence level suggests a modest improvement with Free Phos 24 at a comparative rate.

TRIAL DETAILS

Crop: Pioneer® Corn Location: York County, Nebraska Plant Date: 4/29/2021 Harvest Date: 10/14/2023 Tillage: Spring tillage, Row cultivation Variety: P1185Q

Free Phos 24 is a unique blend that contains 100% orthophosphate, making it immediately available for plant uptake. This feature is particularly beneficial for early plant growth stages, ensuring a robust start. Additionally, the product is designed to enhance soil biology, which aids in the long-term release of soil nutrients that are otherwise inaccessible to plants. It's suitable for use in a wide range of pH soils and can be applied as a pop-up or foliar fertilizer.

Soil Tests: (October 2020)

				Ammonium Acetate (ppm)				CEC	%	% Base Saturation			ion
рН	BpH OM LOI %	Nitrate – N ppm N	Mehlich P-III ppm P	К	Ca	Mg	Na	me/100g	Н	Κ	Са	Mg	Na
6.6	3.4	5.7	22	390	2023	306	41	13.8	0	7	73	18	1
6.8	3.2	6.2	14	355	2193	317	46	14.7	0	6	74	18	1

CHECK

3 gal/acre - 10-34-0 in-furrow at planting

190 lbs/acre of Nitrogen as anhydrous ammonia 200 lbs/acre of MESZ® 2 qt/acre - Medal® II ATZ at planting (herbicide) 5 oz/acre - Cavallo™ at planting (herbicide) 8 oz/acre - Lorsban™ (foliar insecticide) 15.2 oz/acre - XYWAY™ in furrow (foliar fungicide)

TREATED

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

190 lbs/acre of NItrogen as anhydrous ammonia
200 lbs/acre of MESZ®
2 qt/acre - Medal® II ATZ at planting (herbicide)
5 oz/acre - Cavallo[™] at planting (herbicide)
8 oz/acre - Lorsban[™] (foliar insecticide)
15.2 oz/acre - XYWAY[™] in furrow (foliar fungicide)
4 oz/acre - Ethos® XB (seed treatment)
4 oz/acre - Battalion[™] in furrow (seed treatment)

AVERAGE YIELD

Check Average Yield: 272 bu/acre Free Phos 24 Yield: 276 bu/acre

