



Efficacy Test of Huma Gro® Super Phos® on Corn

Field Trial

Location: Corn Field in Marshall, Minnesota

Objective

This field trial assessed the Phosphorus (P) efficacy of Huma Gro® Super Phos® on corn yield in comparison with the standard 10-34-0.

Materials and Methods

The corn field was located in Marshall, Minn.; the soil was a clay loam with 3.8% organic matter and a pH equal to 7.6. The design was a randomized complete block with two replicates per treatment. Each plot size was 4 rows x 60 feet. The treatment included (1) 100% P supplied with 1.23 GPA Super Phos®, (2) 100% P supplied by 18.38 GPA 10-34-0, and (3) 50% P supplied by 0.613 GPA Super Phos® plus 50% P supplied by 9.19 GPA 10-34-0. The fertilizers were broadcasted using a tractor-mounted plot sprayer.

Results

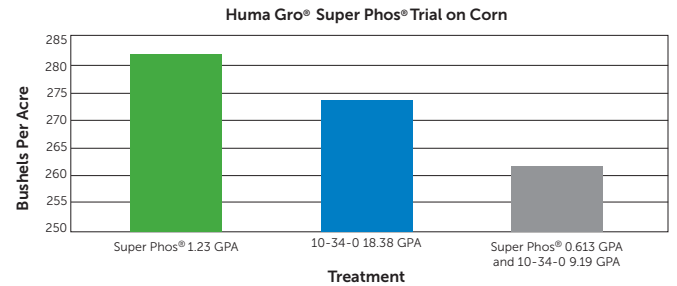


Figure 1. Corn yield assessment in bushels per acre.

Conclusions

Huma Gro® Super Phos® at 1.23 GPA increased the yield by 19.96 bu/ac in comparison to 10-34-0 at 18.38 GPA. This demonstrates Super Phos® efficiency over 10-34-0 at nearly 1 gallon Super Phos® delivering the same equivalent of phosphorus as 15 gallons of 10-34-0. The combination of Super Phos® and 10-34-0 appears to have kept the plant in a vegetative state, thus affecting final yield.

