AgConcepts SuperHume® Increases Corn Yield by 15 bu/acre

AgZyme® with 10-34-0 Increases Corn Yield by 11 bu/acre

on normal planting date with North Dakota State University in Carrington, North Dakota

Ag Concepts® Corp worked with Dr. Mike Ostlie of North Dakota State University on a study investigating the effects of AgZyme® and Ag Concepts® Super Hume® on corn at the Carrington Research Station in North Dakota. Six treatments were examined: check, 6 gallons of 10-34-0 per acre, 16 ounces of AgZyme® per acre, 16 ounces of AgZyme® with 6 gallons of 10-34-0 per acre, 6 quarts of Ag Concepts® Super Hume® per acre, and 6 quarts of Ag Concepts® Super Hume® with 6 gallons of 10-34-0 per acre.

This trial also examined the effect of planting date on the treatments. Three planting dates were examined: early planting on April 13, normal planting on April 28, and late planting on May 12. Each treatment was included in each planting date. According to the researcher, statistically there was no interaction of planting date and treatment.

Overall results, and averages by treatment can be seen in Figure 1. The highest yielding treatment was the Ag Concepts® Super Hume®, averaging 128 bu/acre across all planting dates. The lowest yielding treatment was the check, averaging 119 bu/acre across all planting dates. The yield increase from Ag Concepts® Super Hume® treatment averaged across all planting dates was statistically significant over the check (LSD0.10 = 9.1).

Ag Concepts® products resulted in greater increases in yields versus the check and 10-34-0 applications when used on the normal plant date. Results can be seen in Figure 2. Ag Concepts® Super Hume® treatment had the highest yield of the normal plant date, at 135 bu/acre. AgZyme® with 10-34-0 and Ag Concepts® Super Hume® with 10-34-0 treatments each yielded 131 bu/acre. The check treatment yielded 120 bu, AgZyme was 119 and 10-34-0 yielded 122 bu.

The single highest yielding treatment was Ag Concepts® Super Hume® on the normal planting date at 135 bu per acre. This was a statistically significant increase over the late planting check, 116 bu, and 10-34-0, 118 bu, treatments. This treatment showed a numerical increase over the early planting date check, 122 bu, and 10-34-0, 129 bu, as well as the normal planting date check, 120 bu, and 10-34-0, 122 bu, treatments (LSD0.10=15.7).

Plant stand per acre was also measured. Treatment averaged across planting date showed that the AgZyme®, 35,574 plants/acre, and Ag Concepts® Super Hume®, 35,332 plants, treatments were statistically significantly greater than the check, 32,852 (LSD0.10=2,659). Stand for the other treatments were 33,094 plants for AgZyme® with 10-34-0, 33,820 plants for Ag Concepts® Super Hume® with 10-34-0, and 33,820 plants for the 10-34-0 treatment.

Fig 1: Corn Yield in Bushels per Acre Average by Treatment

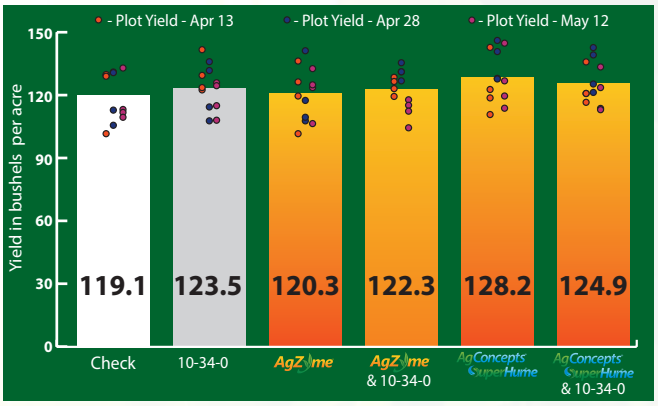
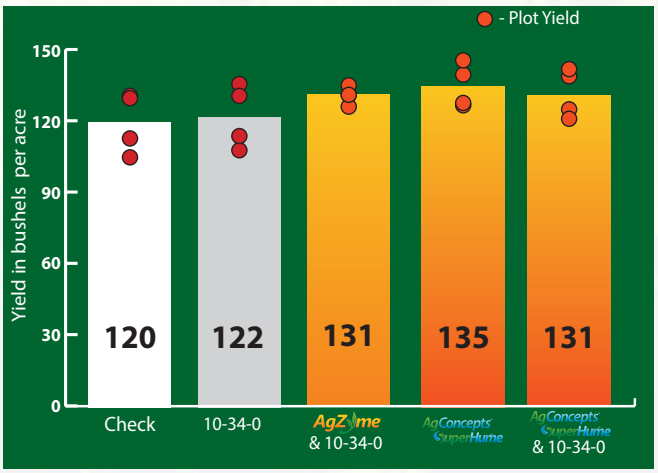


Fig 2: Corn Yield in Bushels per Acre - Normal Planting



2017 at Carrington, North Dakota by North Dakota State University, n=4