

Crop Corn

Location Arise Research
Martinsville, IL - 2007

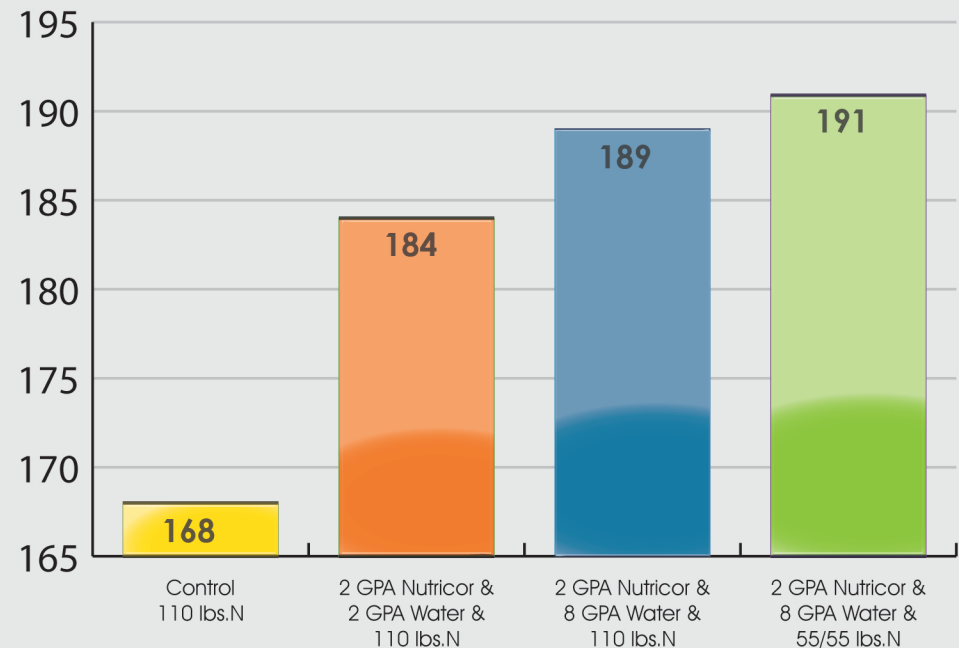
Objective Evaluate the benefit of Nutricor™ dilution rates on corn yield.

Methodology Corn was planted in a Piasa silty clay loam on May 15, 2007 at Arise Research Center, Martinsville, Illinois using a randomized complete block design with 3 replications. Corn rows were planted on 30 inch centers. Liming, insecticide and fungicide programs were employed as is recommended and customary for the crop and location. Nutricor was applied in-furrow at 2 gallons per acre (GPA) using either 1:1 or 1:4 product to water dilution. The corn crop was harvested on October 12, 2007 and moisture, test weight and yield were measured and recorded.

Treatment Applications Nutricor 5-4-4-3(S) was applied in furrow at two (2) gallons per acre (GPA) using either 1:1 or 1:4 product to water dilution. The field used for this experiment was soil tested and limed to adjust soil pH and fertilized with 11-52-0 and 0-0-60 in the prior fall. Specific treatments are:

1. **Grower Standard Control** - 110 lbs./A nitrogen (N) pre-plant.
2. **2 GPA Nutricor diluted with 2 GPA water** in-furrow at planting with 110 lbs./A of N pre-plant.
3. **2 GPA Nutricor diluted with 8 GPA water** in-furrow at planting with 110 lbs./A of N pre-plant.
4. **2 GPA Nutricor diluted with 8 GPA water** in-furrow at planting with **55 lbs./A of N pre-plant and 55 lbs./A as a side-dress** four (4) weeks after planting.

Corn Yield (bu/A) with Nutricor™ Applied In-furrow



Results Nutricor™ applied in-furrow at the 2 GPA rate generated 16 bu/A (+10%) more than the control. Diluting each gallon of Nutricor with 4 gallons of water produced 21 bu/A (+13%) more than the control. Splitting the N application further improved yield.