

Herbicide performance in corn at Morris, MN - 1997. Gunsolus, Jeffrey L. and George Nelson.

The experimental site was located in E19 5C. The previous crop was wheat. Spring 1997 soil test was pH 8.0, O.M. 4.2, 14 ppm P, and 145 ppm K. A broadcast application of 130-46-60 was applied in October 1996 and incorporated via fall chisel plowing. The site was field cultivated, 1 pass, on May 15. The seedbed for the entire corn study was prepared and the PPI treatments were applied and incorporated with one pass of a field cultivator on May 20. During herbicide application the winds were out of the north at 10-15 mph, with temperatures at 40-60F. The study was seeded to P-3751 at 30,100 seeds per acre on May 21 with a Hiniker planter in 30 inch rows. Pre-Emergence herbicides were applied on May 21, after seeding. Winds were out of the south at 10-15 mph, with temperatures at 50-65F. Post-emergence applications were applied on June 10 with grasses 3 inches in height, broadleaves 1/2-3 inches in height, and thistles 6-8 inches in height. Winds were out of the south at 5-20 mph, with a high temperature of 82F. Corn was 3-4 leaf stage. Post-Emergence applications at 2 collar corn were applied on June 16. The wind was out of the NW at 5-9 mph, temperature of 63F at application with a high of 80F. Designated treatments were cultivated as per plan on June 20. The study was harvested with an Almaco combine on October 22, grain yield and moisture were recorded. A sample was collected for test weight determination. Grain yield was calculated on a harvest area of 5 feet by 27.5 feet for reps 1, 2, and 3, and 5 feet by 29.0 feet for rep 4.

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