

SEED TREATMENTS, FUNIGICIDES and INSECTICIDES EFFECTS ON SOYBEAN YIELD

**Cooperative study with the Kane County Corn Growers Association
& University of Illinois Crop Sciences Department**

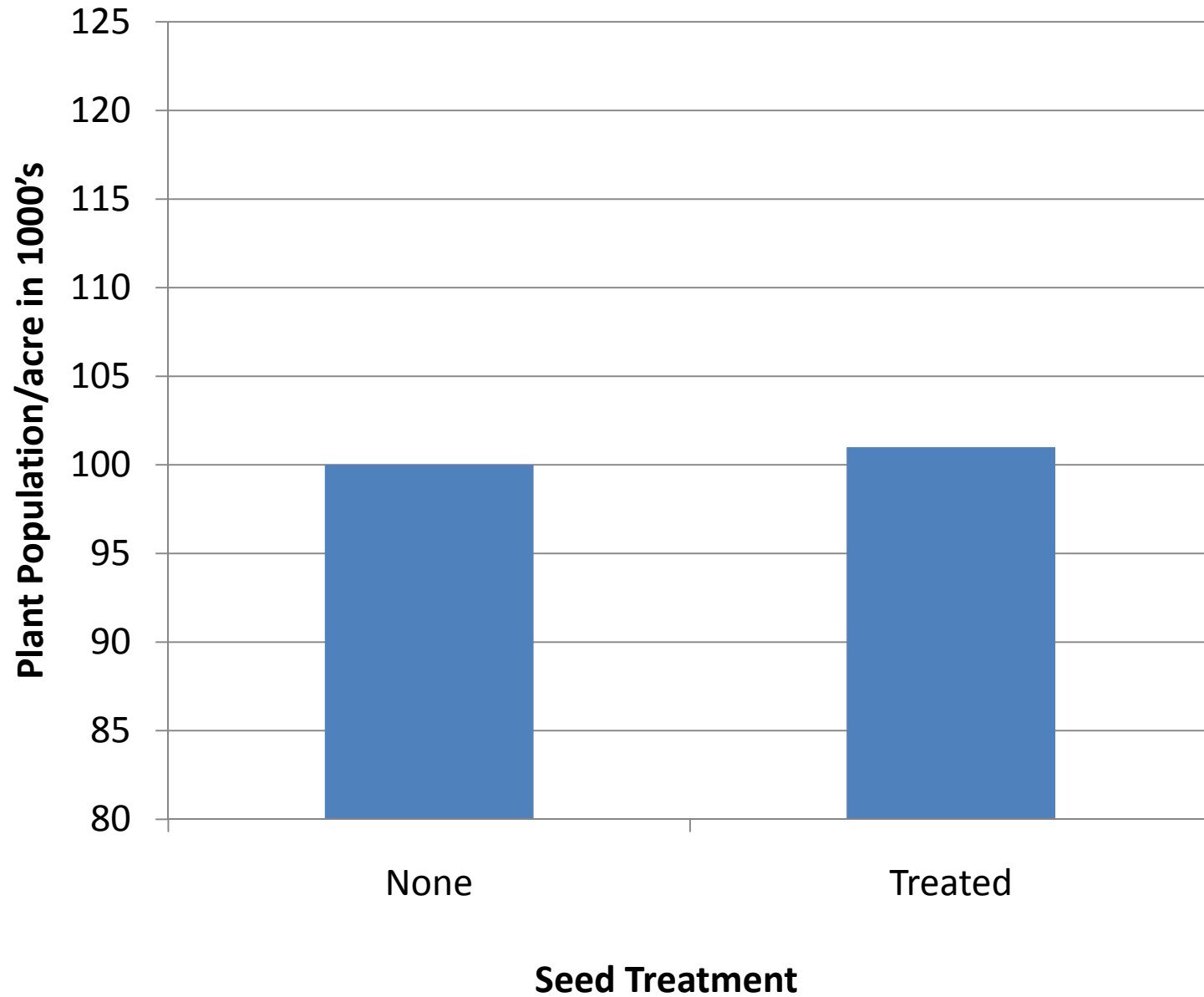
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A study of the effects of seed treatments, fungicides and insecticides on soybean yield was conducted at the Kane County Corn Growers Association variety trial area in 2009. Pioneer Brand variety 92M54 soybeans were planted on June 5, 2009 in 15" rows with a 40' wide planter. One-half of the planter had untreated seed and the other half had seed treated with Cruiser-Max seed treatments. This planting pattern gave 40' wide strips of the treated or untreated seed.

Ten foot wide strips were treated with fungicides, insecticides and/or both at the R-3 stage (beginning pod development) of plant development. One-half of the strips were on the treated seed and the other one-half were on untreated seed. Disease severity was rated in September and plant populations were taken before harvest. There were low disease levels and no significant differences in disease ratings between treatments. The population differences between the final plant stand achieved with treated and untreated seed was less than 1350 plants per acre.

To evaluate the effect of the result, the cost of treatments used were about \$10 for seed treatment, \$12 for fungicide, \$8.50 for insecticide and \$6.50 for application. In looking at the results, using just the seed treatment was beneficial. There were other treatments that also would have been economically beneficial, but they varied on the treated on untreated seed. The only treatment that was profitable on both the treated and untreated seed was the Quadris fungicide – Endigo insecticide combination. The results are shown on the following two charts. The first chart shows the harvest time plant population over all of the treated and untreated seed areas. The second chart shows the results of the individually applied treatments on the treated and untreated seed.

Kane County Corn Growers Soybean Study 2009



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