T-22 Biological Fungicide for Corn
Steve D. Ruhl, Agriculture and Natural Resources Extension Agent

Objective
To evaluate the effect of the biological fungicide T-22 on corn yield.

Background
T-22 Planter Box is a recently available agricultural product containing the fungus *Trichoderma harzianum* which is stated to actively colonize and enhance plant roots. It is stated to help corn plants deal with drought stress.

Cooperator: Tom Weiler  
Fertilizer: 206-70-99 lb/A actual N-P₂O₅-K₂O  
County: Morrow  
Herbicide: PRE: Dual II Magnum (1 qt/A), Atrazine (1.5 lb/A), Balance (1.0 oz/A)  
Nearest Town: Chesterville  
Soil Type: Chili  
Herbicide: POST: Clarity (1 pt/A)  
Drainage: Naturally well-drained  
Tillage: Conventional  
Variety: Golden Harvest 2547  
Soil Test: pH 6.5, P 104 ppm, K 208 ppm  
Planting Date: May 1, 2000  
Row Width: 30 inches  
Planting Rate: 30,100 seeds/A  
Harvest Date: October 23, 2000

Methods
A split planter box treatment of 1 oz. per acre of T-22 vs. no treatment was used in this study. The planter used was a six-row machine. The experimental design was a split-planter side-by-side strip trial with three replications. Three rows had T-22 applied and three rows had no treatment. Individual treatment strips were six rows (15 ft.) wide, and lengths ranged from 277 feet to 455 feet. All six rows of each treatment were harvested and weighed with a weigh wagon.

Results

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Yield (bu/A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-22</td>
<td>149.9</td>
</tr>
<tr>
<td>No treatment</td>
<td>145.5</td>
</tr>
</tbody>
</table>

LSD (P =0.05) = NS

F<1, CV (< 4%)
Summary

The use of T-22 did not have a statistically significant effect on corn yield in this trial. Seed treatments often produce small changes in yield, thus more replications should have been added. The literature on T-22 advocates its real benefit as occurring during a drought year. The 2000 crop year was somewhat dry during periods of the season, but it certainly was not a drought year.

Acknowledgment

The collaborators on this trial express their thanks to Golden Harvest Seed Company for furnishing the seed corn and weighing the plots. Also, thanks are owed to Todd Swetland, Pioneer Seed dealer, for providing the T-22 product.

For additional information, contact Steve Ruhl
The Ohio State University Extension
ruhl.1@osu.edu