

Quad County On Farm Research Group

Years: 2005-2006

Title: Soybean Inoculation Study

Crop: Irrigated Soybeans

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Objective: Test new generation soybean inoculants for yield effect on fields with a history of soybean production.

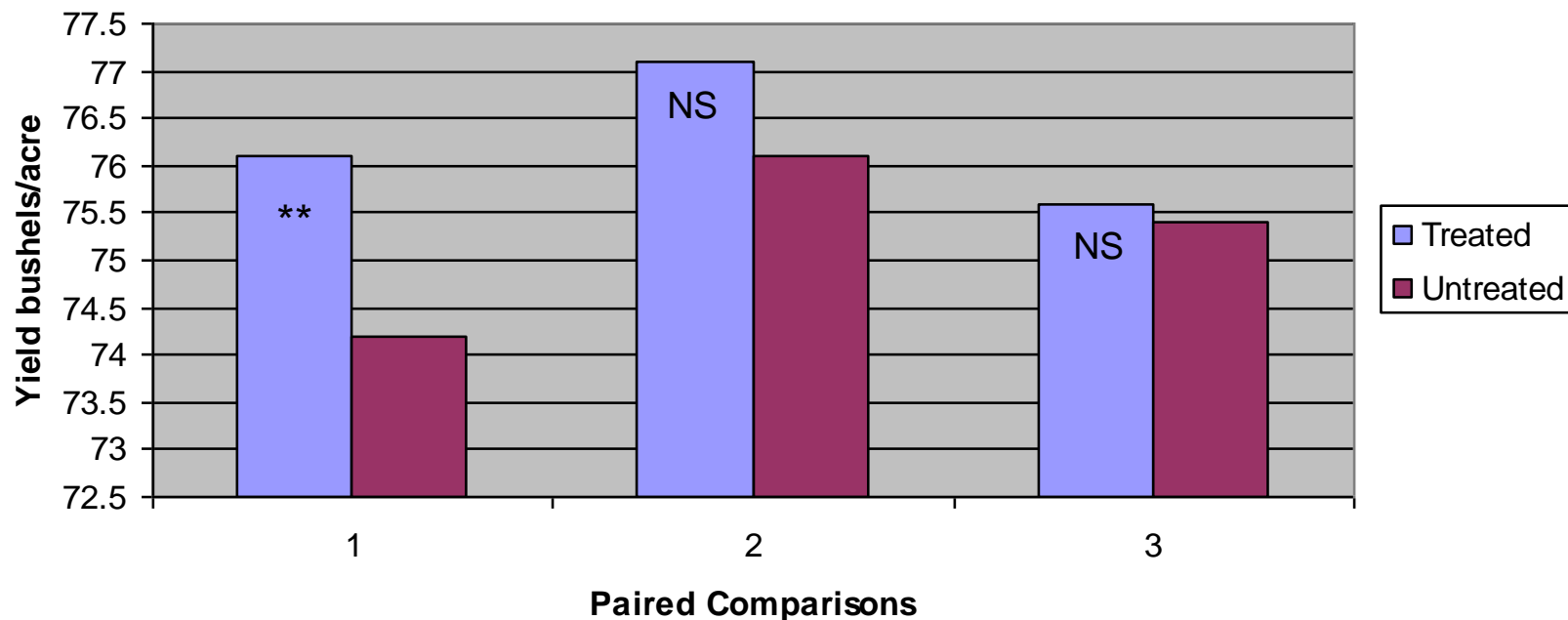
Treatments: SoySuperb, Vault and Cell Tech.

Products Tested

- SoySuperb – peat based inoculant of *Rhizobia* bacteria – experimental, unpriced
- Vault – liquid seed treatment includes a “biofungicide” and “plant activator” - \$2.70/unit of seed plus seed treatment cost ~\$.50/unit.
- Cell Tech 2000 – liquid inoculant - \$1.27/unit plus seed treatment cost ~\$.50/unit

2005 Data

Inoculant and Growth Promoter Study



SoyExcel
19 reps

Vault
11 reps

Cell Tech
4 reps

** = significant at 99%, NS = not statistically different

2005 Summary

- The SoySuperb and Vault treatments are promoted as being effective even in fields with soybean history. All but one location of these studies had a history of soybeans.
- Only SoySuperb produced a consistent yield advantage.
- UNL recommendation remains: expect benefit only in fields without recent (3-5 years) history of soybeans.

2006 Results

Results of 12 replications in irrigated soybean fields:

SoySuperb 72.7 bu/acre ns

Vault 73.5 bu/acre ns

Untreated 72.9 bu/acre

Summary: No significant yield advantage by using Vault or SoySuperb compared to the untreated plots this year.