



Stair Step Soybean Management

Trial Objective

- To determine if various agronomic inputs could reduce the impact of environmental, weed, disease, and insect stresses in soybean.

Research Site Details

Location	Soil Type	Previous Crop	Tillage Type	Planting Date	Harvest Date	Potential Yield (bu/acre)	Seeding Rate (seeds/acre)
Monmouth, IL	Silt loam	Corn	Conventional	5/21/18	10/18/18	55	130K

- Two soybean products, a 2.8 and 3.7 relative maturity, were used and planted in a 30-inch twin-row configuration.
- Treatments included:
 - RI: Rhizobium inoculant alone (Optimize®)
 - FF: Foliar fungicide alone (Delaro® 325 SC fungicide) applied at growth stage R3
 - RI + FF: Rhizobium inoculant + foliar fungicide at R3
 - FI: Foliar insecticide alone (Warrior®) at R3
 - RI + FI: Rhizobium inoculant + foliar insecticide at R3
 - FI + FF: Foliar insecticide at R3 + foliar fungicide at R3
 - RI + FI + FF: Rhizobium inoculant + foliar insecticide at R3 + foliar fungicide at R3
 - UTC: Untreated control

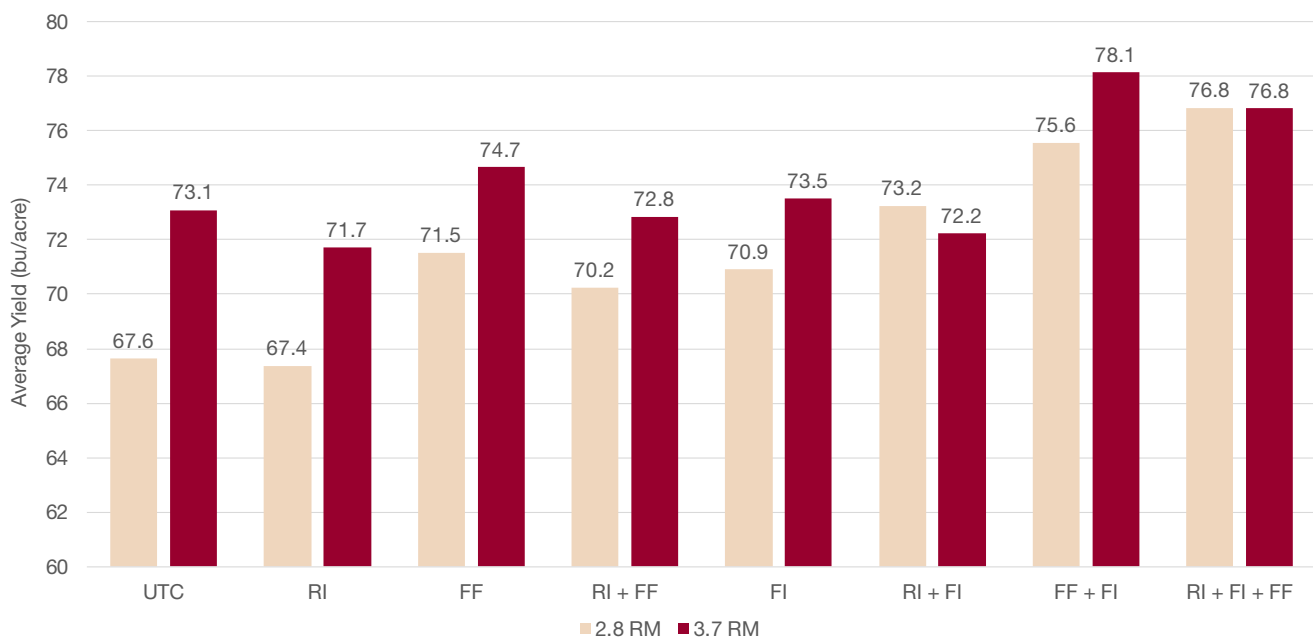


Figure 1. Average yield of the two soybean products as influenced by the various inputs.



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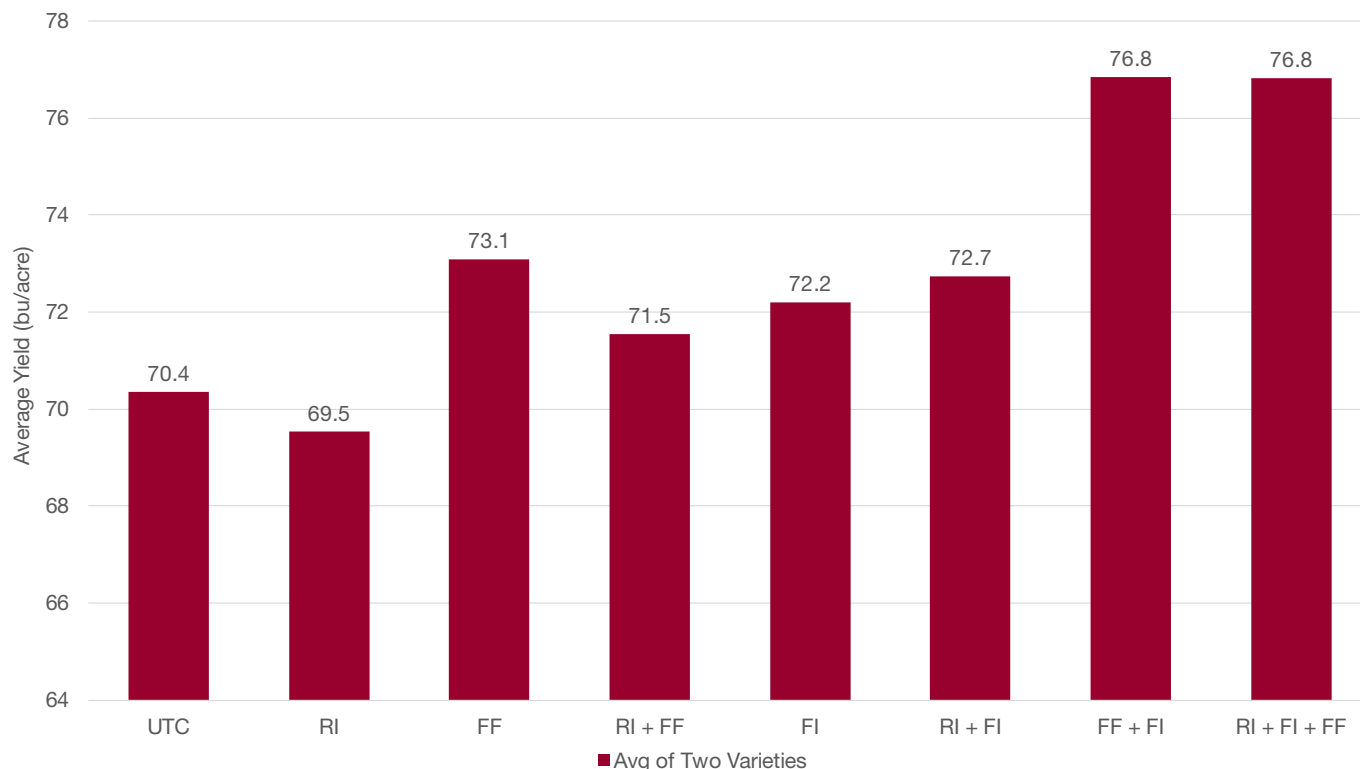


Figure 2. Average yield across both soybean products as influenced by the various inputs.

Understanding the Results

- The combination of all three inputs, rhizobium inoculant, insecticide, and fungicide (RI + FI + FF), as well as the insecticide and fungicide combination (FI + FF) provided the highest average yield for both soybean products.

What Does This Mean For Your Farm?

- Achieving maximum soybean yield potential depends on management practices that minimize plant stress and reduce the impact of environmental conditions on plant health.
- Reduction of stresses with the use of fertilizer, inoculant, fungicide, and insecticide can help achieve maximum yield potential.
- Agronomic practices, such as row spacing, proper planting date, and population, can help reduce the impact of environmental stresses.

Legal Statements

The information discussed in this report is from a single site, replicated demonstration. This information piece is designed to report the results of this demonstration and is not intended to infer any confirmed trends. Please use this information accordingly.

Performance may vary, from location to location and from year to year, as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible and should consider the impacts of these conditions on the grower's fields.

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