

# Field Trial Report

## 2011 SEAREC Plant Stress Study

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### FIELD INFORMATION

Field Name: X	Acres: 5	2010 Crop: Winter Wheat/Soy double crop	2011 Crop: Soybeans
Soil type: Duffield	Field Length: 167	Tillage: No till	Planting Date: 5/10/11
Soybean Variety: 93M11	Seed Treatment: Trilex plus Gaucho	Inoculants: Various by treatment	Planting Depth: 1 inch
Planter/Drill and width: 10 foot 7 inch JD1250 drill		Herbicide: Glyphosate+ Canopy f/b Glyphosate	
Sprayer/width: 20	Combine/width: 15	Design: Randomized Complete Block	3 replications

### TREATMENTS EVALUATED

- 1 Untreated (Trilex plus Gaucho Seed Treatment)
- 2 Optimize 400 on seed
- 3 Bio Forge ST 2 oz/100lb of seed
- 4 Bio Forge 1 pint/acre R3
- 5 Optimize 400 2.5 oz/100lb of seed f/b Ratchet
- 6 Ratchet 4 Oz/acre V6-late R1

### RESULTS

This study was established to evaluate several alternative products designed to reduce stress in soybeans. None of the products had a significant impact on soybean yields in this trial.

Treatment	Yield	Moisture	Test Wt.
	Bu/ac	%	Lb/bu
1 Untreated (Trilex base)	45.5	16.0	47.5
2 Optimize 400 on seed	46.2	16.2	46.9
3 Bio Forge ST 2 oz/100lb of	49.9	16.2	48.6
4 Bio Forge 1 pint/acre R3	46.3	16.0	48.4
5 Optimize 400 f/b Ratchet	49.9	16.2	48.8
6 Ratchet 4 Oz/acre V6-late R1	47.2	16.0	48.6
Significant	NS	NS	NS
CV	6.5	1.0	2.4

Notes: Conditions were dry in Late July and August. Excessive September rain promoted seedborne diseases.