

Cotton: Soltellus™ Increases Profit by up to 8.6%

Cotton Yield Case Study



Soltellus™ is a multifunctional, water-soluble, biodegradable polymer designed to enhance nutrient retention, soil health, water quality, and crop performance. Soltellus™ helps retain and release nutrients to growing plants while fostering a thriving soil microbiome and is a sustainable solution for improving soil health and crop yields.

Proven Performance in Texas Irrigated Cotton

Trial conducted by Ripple Agricultural Research, Inc.

A trial to test the efficacy of Soltellus polymer on irrigated cotton took place near San Angelo, TX. The cotton variety selected was BASF Fibermax FM868 AXTP, planted on 6/19/25 at 38,500 seeds/A. All normal agronomic practices, including optimal fertility and crop protection programs, were followed to ensure trial integrity.

Three treatments were tested at each site: 1) Untreated Control, 2) Soltellus at 2 qt/A applied at V4 stage; and 3) Soltellus at 1 qt/A applied at V4 Stage followed by 1 qt/A at visible flower bud stage. The entire trial received 21.58 gal/A of 17-17-0-5S fertilizer as a sidedress at the V4 stage on 7/15/25; the Soltellus treatments were added to this fertilizer application. The foliar application of Soltellus at flower bud stage occurred on 8/4/25 and was made in 15 gal/A of water. Treatments were arranged in a randomized complete block trial design with each plot 13' wide x 30' in length. Treatments were replicated 6X.

At harvest (12/1/25), total cotton yield was recorded. A sample of the harvested cotton was collected from each treatment and replication and sent to the Texas Tech FBRI lab for HVI analyses. Fiber values were calculated using a loan value calculator from Cotton, Inc., and seed value was calculated using a local gin price of \$220/ton. The cost of Soltellus was subtracted from the gross income from those two treatments to calculate net income/profit per acre.

All lint quality measurements appeared to be in normal ranges with no real differences evident among treatments.

The charts on the following page encapsulate the yield and profitability results from this trial.



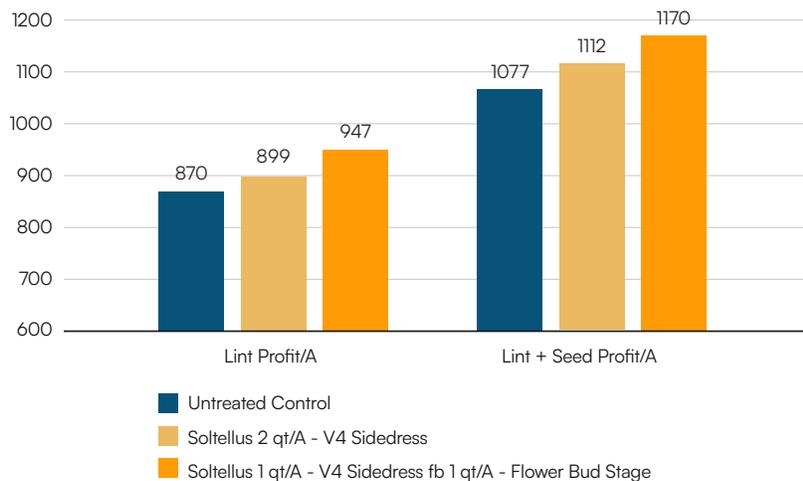
Trial Data Summary

Treatment	Total Yield	Turnout %	Lint Yield	Lint Yield Difference	Lint Loan Value	Seed Yield	Seed Yield Difference
Untreated Control	3626	41.64	1510		0.5762	1881	
Soltellus 2 qt/A - V4 Sidedress	3738	41.60	1555	45	0.5780	1940	59
Soltellus 2 qt/A - V4 Sidedress	3920	41.75	1636	126	0.5786	2029	148

Note: All yield measurements are in Lb/A

Treatment	Lint Profit/A	Lint + Seed Profit/A
Untreated Control	870	1077
Soltellus 2 qt/A - V4 Sidedress	899	1112
Soltellus 1 qt/A - V4 Sidedress fb 1 qt/A - Flower Bud Stage	947	1170

Profitability (\$/A) for Each of Three Treatments



Soltellus treatments increased total profitability per acre by 3.3 - 8.6%