

Improved Almond Yield & Grower Returns with Soltellus™

California Almond 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. Soltellus™ is a sustainable solution for improving soil health and crop yields.

Performance Proven on California Almonds

6% Increased Yield and Quality Gains

Soltellus™ was tested in Terra Bella, CA against an untreated check in a mature almond orchard (Independence variety). The trial was conducted by Sawtooth Ag Research under a randomized complete block design with six replications of five trees per treatment.

Soltellus™ 2000L was applied at 2qt/acre via drip irrigation on three occasions: petal fall (March 10), nut retention (April 16), and nut sizing (May 26).

Tree vigor, nut set, nut weight, and yield were assessed through harvest.

Measurement	Untreated	Soltellus-Treated	Soltellus Advantage
Tree Vigor (0—5 scale)	3.5	3.6	+0.1
Nuts per Tree	8,914	9,653	+8%
Average Nut Weight (g)	86	85	Maintained
Yield (lb/2 trees)	120	122	+6% (+150 lb/ac)
Turnout (Meat %)	28.3%	29.6%	+1.3 pts
Estimated ROI*	—	+\$380/ac	—

*Assuming \$2.60/lb almond price minus \$10/ac/application product cost.

GROWER OBSERVATIONS

Observations from the trial indicated healthy tree vigor and good nut fill across all replications.

INTERPRETATION

Soltellus™ increased nut count per tree while maintaining kernel weight, **resulting in a 6% yield gain** and an estimated **\$380 per acre increase** in grower returns.

Treated trees also exhibited slightly better vigor and higher kernel turnout, supporting the potential of Soltellus™ to enhance yield and quality in California almond production.