



Acadian™

The Gold Standard in Biostimulants

Acadian is a premium *Ascophyllum nodosum* biostimulant produced through a proprietary alkaline extraction process that preserves and concentrates key bioactive compounds. The result is a pure, fully soluble, and highly consistent formulation with 3+ years of shelf stability—delivering stronger abiotic stress resilience, improved nutrient use efficiency, and higher quality yields season after season.

Acadian delivers consistent, reliable performance for almond growers by offering three critical advantages:

Powerful

It strengthens stress tolerance, improves nutrient uptake, and supports stronger root development—driving healthier growth and contributing to higher yield potential even under challenging conditions.



Versatile

It integrates seamlessly into any production program with broad tankmix compatibility, supports soil health and microbial activity, and offers a sustainable solution suitable for both conventional and organic systems.



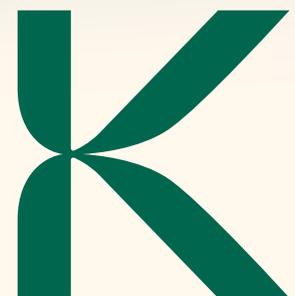
Consistent

It delivers dependable performance thanks to its pure *Ascophyllum nodosum* extract and a proprietary alkaline process that ensures high bioactive content, full solubility, and a stable 3-year shelf life without settling or clogging.



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Proven Marketable Yield Advantage

Recent independent field trials conducted in **Arbuckle and Terra Bella, California** showed that Acadian at 32 oz/acre consistently matches or outperforms competing seaweed products applied at 64 oz/acre.

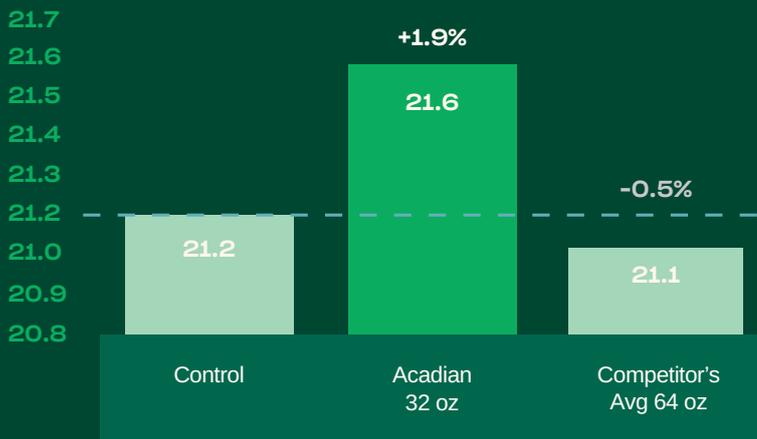
Across trials, Acadian delivered higher marketable yields, boosting production by 8.7% over the control compared with 5.3% from competing treatments. These results demonstrate that Acadian at 32 oz/acre provides almond growers with a stronger, more reliable increase in productivity per acre.

Acadian increased total pounds per acre by 8.7%. Based on average market prices at the time of picking (\$2.40 per pound), this translated into an additional US\$492 in gross revenue per acre.

Almonds: Marketable Yield (lb / acre)



Almonds: Number of Flowers



Almonds: Nut Size - Kernel Weight (in grams)



Trial Highlights

Stronger roots for early growth

Acadian accelerates root development to improve water and nutrient absorption during the most critical early stages. This stronger foundation supports better tree vigor, reduces transplant stress, and promotes more uniform orchard establishment.

Improved nutritional uptake

Acadian boosts the uptake of key nutrients such as zinc, iron, and boron, helping trees get more out of your fertility program. Its natural chelators enhance micronutrient availability and movement within the plant, supporting vigorous growth and energy for setting more nuts.

More uniform bloom and higher fruit set

Acadian supports more uniform flower bud development, leading to a more consistent bloom and stronger fruit set. This helps reduce early fruit drop and builds the foundation for higher yields and improved nut development.

Built-in protection against heat and water stress

Acadian strengthens almond trees' tolerance to heat, drought, and early-season cold, helping maintain fruit development, reduce stress-related damage, and protect overall yield potential under challenging conditions.

Why Growers Choose Acadian

Acadian provides a concentrated blend of synergistic bioactive compounds that help almond trees express their full yield potential. It supports stronger, more productive orchards by stimulating root development, enhancing nutrient uptake, and improving tolerance to challenging growing conditions.



Problem–Solution Fit

Problem Faced	Solution / Benefit	Why It Matters
Poor pollination & low nut set	Improves flower development and supports reproductive processes	Leads to better fruit set and higher yield potential
Nutrient deficiency	Acts as a natural chelator to enhance nutrient availability	Promotes healthy tree growth and optimal nut development
Low fruit quality (size/flavor)	Enhances nutrient metabolism and strengthens cell-wall integrity	Produces larger, firmer almonds and improves marketability
Water stress	Increases water use efficiency and supports root function	Helps trees maintain performance under limited irrigation and osmotic stress
Heat stress	Boosts heat tolerance and overall stress resilience	Protects flowering and fruit set, helping maintain yield and nut quality under high temperatures

Rates and Application Timings

Apply Acadian at 32 fl oz per acre (label rate: 32 to 96 fl oz):

- 1st application: Pink Bud
- 2nd application: Early Flowering
- 3rd application: Petal Fall
- 4th application: Early Fruit Growth



Acadian mixes well with nutrients and other agricultural products.

Contact & Support

For program recommendations, trial data, and local support, contact your regional representative or visit koppertus.com



Results may vary by variety, environment, and management. Always follow label directions.

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