

# INNOVATIVE AGRICULTURE

## Effective and Economical P & K Management Critical to Crop Development

Almonds love potassium (K). They require large amounts of it to remain vigorous and productive, even more so than nitrogen. Each almond orchard is a unique environment, and different soil types hold varying amounts of K and release it differently, which can make it tricky to manage K effectively.

Deficiencies develop gradually over time and visual symptoms can take years before they show up. Plants lacking in potassium often show delayed or stunted growth. Other deficiency signs include inward curling of leaves, discolored leaf tips and marginal scorching. When severe, potassium deficiencies can increase the loss of fruiting wood, which results in reduced crop loads.

During fruit bud, the trees are working below the soil surface. A new flush of feeder roots are pushing out, and having an adequate supply of phosphorus (P) and soil moisture is critical in the development of these new roots. Choosing a phosphorus fertilizer that is protected from tie-up in the soil ensures the most return on your fertilizer investment.

Continued monitoring and fertilization in the orchard helps growers build and maintain P and K at levels where deficiencies are less of a concern. Regular soil testing, taken a minimum of every three years, can help almond growers identify nutrient trends over time, additionally annual leaf samples help growers keep track of all nutrient levels.

**Sure-K®** is a clean, chloride-free potassium solution engineered for maximum plant uptake. It has a neutral pH, making it ideal for application with most crop protection products.

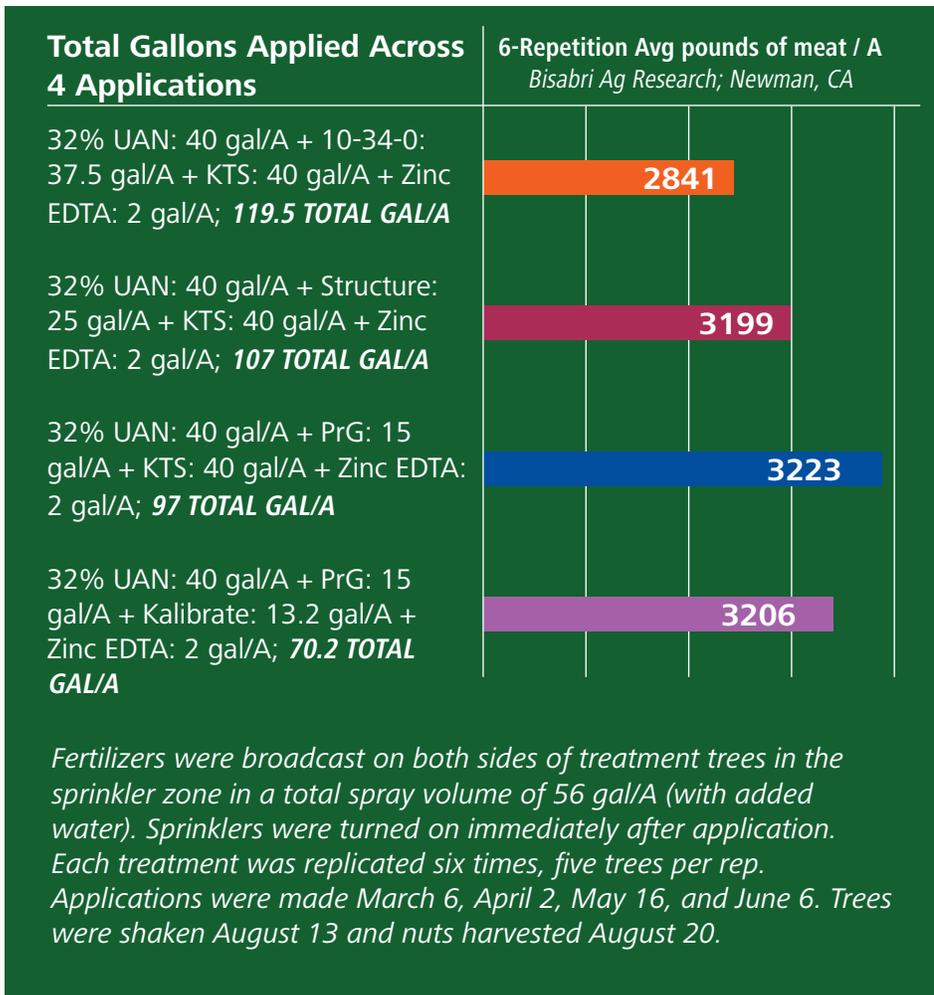
**Kalibrate™** is an enhanced-efficiency potassium fertilizer formulated with the added benefit of 6% sulfur. While nitrogen, phosphorous and potassium are generally applied to crops in the greatest quantities, including the other nutrients like sulfur are keys to optimal plant growth.

**PrG™** is used primarily for the application of phosphorus, but is partnered with nitrogen, potassium, and micronutrients for maximum performance. PrG, through proprietary manufacturing technology, contains both ortho-phosphate and carbon-protected polymer phosphate to provide readily available and controlled-release phosphorus with minimal danger of tie-up in the soil. It is formulated to be available for crop utilization during a wide window of time.

While the objective with any fertilizer application is to apply plant-available nutrition, many fertility products also contain elements that can have a negative impact on the soil and plant health. The lack of chlorine and a near neutral pH found in the AgroLiquid family of products makes them a more sustainable option in plant nutrition.

For more information on AgroLiquid potassium products and the company's full line of other great nutrient solutions for a variety of cropping situations, visit [AgroLiquid.com](http://AgroLiquid.com).

# Fertilizer Evaluations in *Non-Pariel* Almonds



**Sure-K**<sup>®</sup>

**Kalibrate**<sup>™</sup>  
Precision Potassium

**PrG**

## Leaf Tissue Samples - Collected on May 7 (after 2 applications)

Fertilizer Program	%N	%P	%K	%Ca	%Mg	%S	B	Cu	Fe	Mn	Zn	%Na	%Cl
Treatment with 10-34-0 + KTS	2.99	0.21	2.44	3.09	0.70	0.23	44	8	92	116	35	0.01	0.07
Treatment with Structure + KTS	3.01	0.21	2.42	3.16	0.71	0.23	44	8	97	118	35	0.01	0.07
Treatment with PrG + KTS	3.01	0.20	2.48	3.13	0.71	0.22	44	8	86	121	35	0.01	0.06
Treatment with PrG + Kalibrate	3.00	0.21	2.43	3.15	0.73	0.23	44	8	96	125	35	0.01	0.06

*Analysis by Dellavalle Laboratory, inc. - Fresno, CA*