

# QMIN<sup>®</sup> Almond Pink Bud Nutrition Solution



## Optimize absorption of the most demanded nutrients before flowering and pollination

Pink bud signifies it's time for optimal application of essential nutrients like calcium, boron, zinc, cobalt, molybdenum and copper. These nutrients are needed for pollen viability and floral development which help improve fruit set resulting in more abundant harvests.

The majority of nutrients taken up by almonds from the soil begins after flowering. Early fruit set and leaf development depend upon the nutrients stored in the buds and the tree the previous season. Soil factors such as temperature and high pH reduce uptake of most nutrients. Crop yield, tree management, irrigation and nutrition during the previous season impact the amount of nutrients stored in the buds. Nutrient deficiency early in the season can adversely impact pollination, leaf development, fruit set and yield. Soft tissue such as young leaves and flower buds absorb foliar applied nutrients easily. Nutrients applied during pink bud can rapidly enter the floral tissues and overcome deficiencies resulting in improved plant performance.

## Ensuring Your Almond Trees Absorb Needed Nutrients

One way to ensure your plants get the nutrition they need is through the foliar application of nutrients. QualiTech's QMIN<sup>®</sup> is an ideal solution as it leverages polysaccharide technology to move nutrients into the tissues that need it most, like inside the developing flowers on an almond instead of on the calyx. How does QMIN<sup>®</sup> polysaccharide technology promote nutrient absorption?

- The nutrients are complexed with polysaccharides, to enhance translocation to almond flowers and developing fruit.
- It is tank-mix compatible with fungicides, which eliminates the need for additional applications, saving time and money.
- The polysaccharide complex is derived from natural plant sources which act as a source of energy for the developing flowers.
- Polysaccharides are natural humectants, which means that they readily absorb atmospheric moisture. This property allows QMIN<sup>®</sup> to frequently re-wet on the bud – thereby prolonging uptake activity.

Another benefit of QMIN<sup>®</sup> technology is that it is a safe solution derived from plants, which mitigates phototoxicity. QMIN<sup>®</sup> Boron, QMIN<sup>®</sup> Calcium and QMIN<sup>®</sup> HeptaBoost have been safely applied at almond bloom for over a decade.

## How QMIN<sup>®</sup> Technology Works

The goal of our QMIN<sup>®</sup> products is to help your trees better utilize the nutrients you supply and deliver faster results. Since most plants store polysaccharides for energy, QMIN<sup>®</sup> complexes enter the plant through the cuticle and stomata. Once inside the plant, QMIN<sup>®</sup> technology improves translocation and metabolism.

QMIN<sup>®</sup> micronutrients applied during pink bud or bloom can improve tree productivity. Post-bloom nutrients can be applied twice a year or as needed based on tissue analysis and visual symptoms for maximum results.

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## Suggested Rates and Timing - Almond Foliar Program

When	Product	Rate
Pink Bud or Early Bloom	Maritime	1 quart/acre
	QMIN Calcium	1 quart/acre
	QMIN Boron	1 pint to 1 quart/acre
	QMIN HeptaBoost	1 quart/acre
	QMIN OptiBoost	1 pint/acre
Fully Expanded Leaf - Nut Development	QMIN Zinc	1 quart/acre
	QMIN N-Gain	2 quarts/acre
	Loveland CarboBoost 2-15-15	1 gallon/acre

## Importance of pink bud/pre-bloom foliar nutrition:

- Flowering is dependent on stored nutrients
- Good pollination = high yield
- Nutrient deficiency affects pollination and set, specifically Ca, B, Zn, Mo, Co, Cu
- The soft tissue during pink bud timing allows for easy nutrient update

### Combine Nutrient Enhancing Products with Superior Fertilizer Management Tools

Qortex<sup>™</sup>, the Agronomy Decision Engine<sup>™</sup>, helps crop advisors make fertilizer programs which improve crop productivity and reduce costs. Use Qortex to speed up fertilizer decision-making by managing the fertilizer rate, source, location, timing and price all from one place. Talk to a QualiTech agronomist to learn how crop advisors can save time, stay organized and increase ROI while improving the quality of their advice.

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