

## Almonds – Red Cliffs VIC

## Hensgen Family | Red Cliffs VIC

The adoption of a biological nutrition program three years ago has rejuvenated 2,900 almond trees that were languishing under the ill-effects of a high input management system.

Red Cliffs district almond grower, Barry Hensgen, began applying a high-input fertiliser program across his two blocks on the advice of a consultant several years ago. "This program aimed to achieve a yield of about 3.1 tonnes kernel per ha, which was about 30 percent higher yields than the industry average," he said.

"The basic idea was that the more we fed our trees, the higher our yield. This seemed logical to us, and sheep-like, we put on more and more fertiliser, far more than we had ever used in our lives.

> Those trees were only half-way through their productive life yet they looked like they had reached their use-by date

"We never got the extra yield but we could see our trees declining–in fact, they were dying, particularly the mature trees on our second block. Those trees were only half-way through



Red Cliffs almond grower, Barry Hensgen, and BioAg Horticulturalist, Marco Retamoza.

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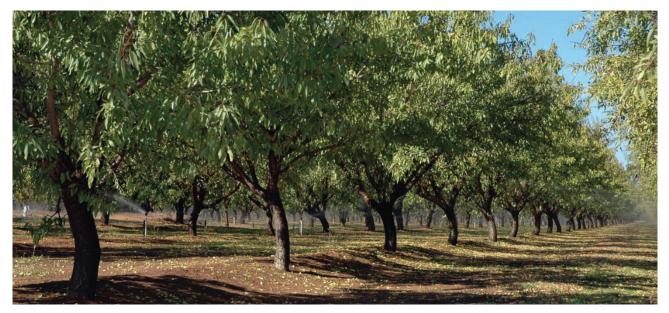
"The leaves were burnt at the tips, the branches were defoliated and they generally looked sick. I didn't know what to do but I knew I had to find an alternative."

Barry contacted a local agronomist who had a well-developed interest in biological nutrition. He inspected the trees and concluded that they weren't dying as much as being poisoned by over-fertilisation.

"Marco said we were literally killing our trees with goodness," Barry said. "We were putting on so much nitrogen and other nutrients that our soils had become toxic. His advice was to apply vitamins and microbial cultures to restore the microbial activity in the soil.



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The adoption of a BioAg fertility program has restored the vitality of Barry Hensgen's almond grove.

"This seemed like a strange solution to us, but we knew if we stayed on the path we were on, we weren't going to have any trees to worry about. We decided to bite the bullet, stopped the old program and started a biological approach."

The following year, Barry began implementing a year-round fertility program incorporating a range of biologically active solid nutrients and fermented liquid cultures produced by BioAg.

Typically, each block receives an annual application of 350-500kg per ha\* *BioAgPhos*<sup>®</sup> and 350-500kg per ha\* sulphate of ammonia during spring.

The solid nutrients are applied using a belt spreader between the tree rows.

In addition, 1-1.5L per ha<sup>\*</sup> of BioAg *Soil* & *Seed*<sup>TM</sup> and 15-25kg per ha<sup>\*</sup> of calcium nitrate (a rich source of calcium and nitrogen) is applied at 21-day intervals throughout the growing season via the fertigation system.

During early flowering and fruiting, 1.5-2.5L per ha\* of BioAg *Balance & Grow*<sup>®</sup> mixed with small amounts of calcium nitrate and micronutrients as needed, is applied as a foliar spray at 21-day intervals.

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