



Agromonics Review | Calendar Schedule | Management Reports

“We want the best tools for our teams. We were able to improve the crop yield uniformity and manage a tight water budget during the drought.”

Accuracy Last Updated: 9/10/2021 9:24 AM and Precision Last Updated: 10/29/2021 9:28 AM

Branch	Management Block	Crop	Forecast Field	Grower Plan ETo (in.)	Applied (in.)	Recent Accuracy (in.)	Crop Alert
Alpha							
Alpha	Field 2						
Alpha	Field 5						
Alpha	Fields 4&5	Almonds	Field 4	2	0.54	-0.73	

RESULTS

- ✓ Ability to track variability across fields with calibrated images & pressure sensors
- ✓ Weekly crop alerts to track implementation of schedule from CCA within +/-0.2 inch
- ✓ Optimized irrigation hours across fields leveraging VFD
- ✓ Pump alerts to impact of clogging based on real-time data from Smart Meter
- ✓ Constant improvement in yield until maturity and all fields achieved water use efficiency of 0.5 Ton/ Ac-Ft



CUSTOMER CASE STUDY

Bowles reduced yield variability from 25% down to less than 5% for their processor partner RPAC.

The Challenge

RPAC is a family operated huller-sheller and almond processor near Los Banos. They are the processor of choice for local farms like Bowles Farming who owns an orchard close to RPAC’s processing facility. The irrigation and fertigation schedule is set by a certified agronomist who visits the orchard every two weeks and sends his recommendations. The orchard suffered from some variability in yield across several fields due to soil differences that they thought had been managed.

The Solution

Cannon Michael (Bowles) and David Parreira (RPAC) decided to use **CropMonitor™**. It leverages historical images to identify that one field was over irrigated and that one field was under irrigated. They also integrated the data from the agronomist into the decision-support tool to quantify the water stress in the spring. The agronomist plan was followed within 90% the first week but only 70% the second week, causing a slow reduction in moisture.

The team quickly corrected the stress in the first year by watering more in May to stay on ET schedule and avoided water stress when the pest spray is applied in June. They tracked water use with **PumpMonitor™** and leveraged a newly installed VFD controller. They irrigated more frequently on one field with sandy soil and less frequently on another. Over 2 years, all the fields achieved 3,500 lbs/acre in yield with less than 5% variability while it was over 25% when the project started according RPAC. Bowles Farming achieved a high level of water use efficiency even during drought years.

