



Fertilizer Program Evaluations in Almonds: 2 years

Bisabri Ag Research and Consulting. Westley, CA. 2019

Experiment Info:	
Planted:	06/06/20
Harvest:	8/21/201
Yield Goal:	3000
Target Fert.	180-150
Variety:	Nonpariel
Population:	148
Row Width:	21 ft
Prev. Crop:	almond
Plot Size:	1470 sq
Replications:	6
Trees/Rep	5

Soil Test Values (ppm):	
pH:	7.2
CEC:	30
%OM:	2
Bray P1:	
Bicarb P:	22
K:	302
S:	12
%K:	2.5
%Mg:	30
%Ca:	66.5
%H:	
Zn:	0.9
Mn:	5
B:	

Objective:

Prove that AgroLiquid Fertilizers applied at rates that are considerably lower than those of conventional fertilizers are as effective as conventional fertilizers in production of almonds.

This is the second year of a planned 3-year replicated plot experiment comparing different applications of AgroLiquid fertilizers compared to conventional fertilizers: 10-34-0, Structure, potassium thiosulfate and zinc. AgroLiquid fertilizers PrG, Kalibrate and Micro 500 were successively substituted into the conventional programs. Structure (7-21-0) is a fertilizer that has properties seen as a more specialty type fertilizer compared to 10-34-0. Treatments were banded under the trees and then watered in with

Fertilizer Evaluations in <i>Nonpariel</i> Almonds. Westley, CA 2019									
2019 Application Dates (fertilizer rates per field acre)									
	8-Oct-18	6-Mar	2-Apr	16-May	6-Jun	total gal/A	6 rep avg		Avg
							2018	2019	
1	32% UAN: 10 gal 10-34-0: 7.5 gal KTS: 5 gal	32% UAN: 10 gal 10-34-0: 15 gal KTS: 10 gal Zinc EDTA: 0.5 gal	32% UAN: 15 gal 10-34-0: 15 gal KTS: 10 gal Zinc EDTA: 0.5 gal	32% UAN: 15 gal KTS: 10 gal Zinc EDTA: 0.5 gal	10-34-0: 7.5 gal KTS: 10 gal Zinc EDTA: 0.5 gal	50 45 45 2	2841	2391	2616
2	32% UAN: 10 gal Structure: 5 gal KTS: 5 gal	32% UAN: 10 gal Structure: 10 gal KTS: 10 gal Zinc EDTA: 0.5 gal	32% UAN: 15 gal Structure: 10 gal KTS: 10 gal Zinc EDTA: 0.5 gal	32% UAN: 15 gal KTS: 10 gal Zinc EDTA: 0.5 gal	Structure: 5 gal KTS: 10 gal Zinc EDTA: 0.5 gal	50 30 45 2	3199	2451	2825
3	32% UAN: 10 gal PrG: 3 gal KTS: 5 gal	32% UAN: 10 gal PrG: 6 gal KTS: 10 gal Zinc EDTA: 0.5 gal	32% UAN: 15 gal PrG: 6 gal KTS: 10 gal Zinc EDTA: 0.5 gal	32% UAN: 15 gal KTS: 10 gal Zinc EDTA: 0.5 gal	PrG: 3 gal KTS: 10 gal Zinc EDTA: 0.5 gal	50 18 45 2	3223	2456	2839.5
4	32% UAN: 10 gal PrG: 3 gal Kalibrate: 3.3 gal	32% UAN: 10 gal PrG: 6 gal Kalibrate: 3.3 gal Zinc EDTA: 0.5 gal	32% UAN: 15 gal PrG: 6 gal Kalibrate: 3.3 gal Zinc EDTA: 0.5 gal	32% UAN: 15 gal Kalibrate: 3.3 gal Zinc EDTA: 0.5 gal	PrG: 3 gal Kalibrate: 3.3 gal Zinc EDTA: 0.5 gal	50 18 16.5 2	3206	2452	2829
5	32% UAN: 10 gal PrG: 3 gal Kalibrate: 3.3 gal	32% UAN: 10 gal PrG: 6 gal Kalibrate: 3.3 gal Micro 500: 0.5 gal	32% UAN: 15 gal PrG: 6 gal Kalibrate: 3.3 gal Micro 500: 0.5 gal	32% UAN: 15 gal Kalibrate: 3.3 gal Micro 500: 0.5 gal	PrG: 6 gal Kalibrate: 3.3 gal Micro 500: 0.5 gal	50 18 16.5 2	3084	2489	2786.5

LSD(0.05): 2 yr: 207.5; 2018: 300; 2019: no signif. diff.

Conclusions:

- Over the two years, both PrG and Structure produced yields that were significantly higher than with 10-34-0.
- PrG applied only 18 gallons per acre (gpa) over the season compared to 45 gpa with 10-34-0 and 30 gpa with Structure.
- The yield with PrG and 16.5 gpa of Kalibrate over the season was the same as with 45 gpa of potassium thiosulfate. This proves equal yield with only one-third the volume.
- These results should alleviate any concerns about lack of performance at