

## BIO SEED ON GROWTH OF NEW ALMOND PLANTINGS, IN SAC, CA, 2019

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A trial was established in Camusi Arbuckle Ranch, in Sacramento, California, in order to evaluate the effects of the organically-approved microbial inoculant Bio Seed (<http://agbioinc.com/wp-content/uploads/2019/02/Bio-Seed-OMRI-2020.pdf>), developed by Ag Biotech Inc., of Lakeville, NY (<http://agbioinc.com/bio-seed2/>) on growth of new almond plantings. The almond variety was Nonpareil, on Viking rootstock. Soil present had high Mg, low Ca, low S, and lowish P. Planting of potted trees took place on January 26, 2019, and were spaced 22'x15', for a 132 trees per acre density. Fertilization included 5-5-5 @ 5gpa, 2.5gpa, 2.5 gpa, 1 gpa & UN32, 2 week spacing between each application, and spot treatment of poorly growing trees with 1/2 lb of 15-15-15. Minimal insect pressure resulted in only one spray for mites on July 27<sup>th</sup>. Heavy rains were experienced in March through May, with good conditions from June 1<sup>st</sup>. Trunk diameter was measured and Trunk Cross-Sectional Area (TSCA) calculated, in 84 trees (0.64 ac.) of each treatment in late July, 2019 (6 months after planting of potted trees).

In the Bio Seed area, before planting, potted almond trees (with large root ball) were dunk in a solution of 50 g Bio Seed in 5 gallons of water per acre until the whole root ball was saturated.

Bio Seed showed a marked 8.3% increase in trunk diameter and a very marked 17.3% increase in Trunk Cross-Sectional Area (TSCA) compared to the untreated Control (Table & Fig.).

	Trunk diameter (mm)	Difference (mm)	% increase	Trunk Cross-Sectional Area (TSCA) (mm <sup>2</sup> )	Difference (mm)	% increase
Bio Seed	23.1	1.8	<b>8.3</b>	417.4	61.6	<b>17.3</b>
Control	21.3			355.8		

