

## BIO SEED ALONE AND WITH BIO SHOT ON TOMATO YIELD, MEMPHIS, TN, 2018

Dr. K. Bruce Kirksey. Agricenter International. Memphis, TN. [bkirksey@agricenter.org](mailto:bkirksey@agricenter.org)

A small-plot replicated trial in transplanted Mountain Merit tomato, was conducted by Dr. K. Bruce Kirksey, at Agricenter International, in Memphis, TN, in 2018, on a pH 6.3, good fertility & drainage, Falaya silty loam soil. There were a total of 6 pickings. all based on maturity, by looking for the star on the bottom of the fruit and or if there was a slight tinge of red. The following was concluded:

- Bio Seed 50 g/ac. in drench at planting and as drip at 30 DAP, showed greater fruit number and weight, 0.63 tons/ac in 6 pickings or 29% yield increase and \$572/ac. added net profits compared to the untreated control, with a cost/benefit ratio of 29 (Table & Figs.).
- Bio Seed 50 g/ac. + Bio Shot 40 ml/ac. in drench at planting, followed by Bio Shot 40 ml/ac. sprays at early bloom, fruit set and 1<sup>st</sup>.picking, showed significantly higher fruit number and weight, a much higher yield increase (1.90 tons/ac in 6 pickings or 89%), \$1756 /ac. added net profit, compared to the untreated control, with a cost/benefit ratio of 56 (Table & Figs.).

Programs	# fruits /ac. x 1000	fruit wt. (lb.)	yield	Yield Incr.	Inc. %	added income	added costs	net profit	Cost-benef. ratio
			tons / acre			US \$/ac.			
Untreated Control	7.5	0.570	2.13 b	-	-	-	-	-	
Bio Seed 50 g/ac. drench & drip 30 DAP	8.5	0.652	2.76 b	0.63	29	591	19.5	572	29
Bio Seed 50 g/ac. + Bio Shot 40 ml/ac. drench, & Bio Shot 40 ml/ac. sprays at early bloom, fruit set & 1 <sup>st</sup> picking	12.1	0.667	4.03 a	1.90	89	1787	31.35	1756	56
LSD			0.72						

Means followed by a common letter do not differ significantly (LSD 0.05).

