BIO SEED INOCULANT APPLICATION ON CANOLA YIELD AND NET REVENUES, TN 2020-21

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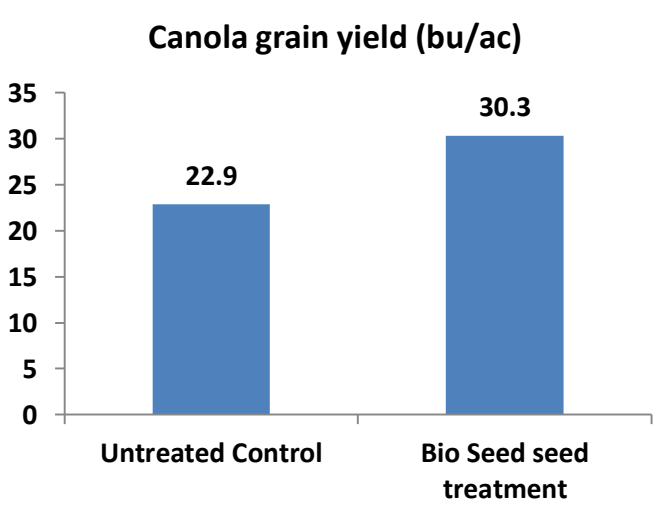
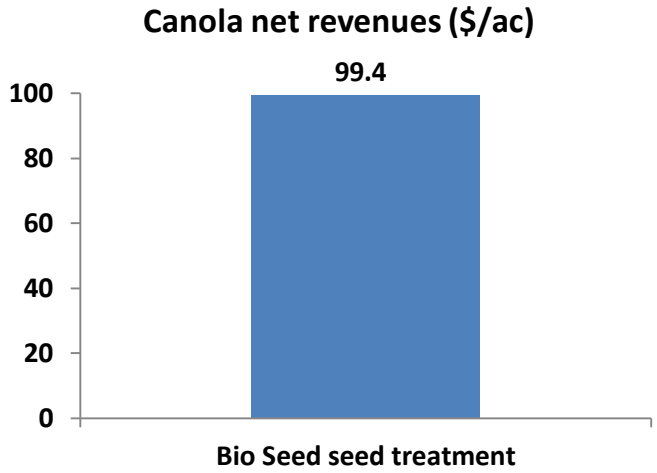
A 10 x 30 ft. plot, four replicate, completely randomized trial was carried out in Wichita cv canola, planted October 27th, 2020, and harvested July 8th, 2021, at Agricenter International, in Memphis, TN, on a good fertility (% OM 4.5) and drainage, pH 7.2, Falaya silty loam soil.

Bio Seed microbial inoculant, was applied in seed treatment, at planting, at rate of 50 g/ac.

Bio Seed seed treatment yielded 7.4 bu/ac (or 32%) significantly higher than the untreated control, with $ 99.40 /ac net added revenues and a cost/benefit ratio of 10 (table & figs.).

Treatment	canola grain yield (bu/ac)	canola yield increase		Added income	Added cost	Net revenue	Cost/ benefit ratio
		bu/ac	%	US $/ac			
Untreated Control	22.9 c	-	-	-	-	-	-
Bio Seed seed treatment	30.3 b	7.4	32	109.15	9.75	99.40	10
LSD (P=0.05)	3.22						

*Means followed by different letters differ significantly at P= 0.05.