

PENERGETIC RESULTS WITH COTTON

Bahia, Brazil – 2015-16

TRIAL

Description of Treatments

Treatment	Fertilizer	Penergetic Used [Yes/No]	Planting	V5/V8	B3/B5	F3/F5
	08-40-00 (lb/ac)		Penergetic k	Penergetic p		
Treatment 1	220 lb/ac	No	0	0	0	0
Treatment 2	176 lb/ac	Yes	8.4 oz/ac	2.8 oz/ac	2.8 oz/ac	2.8 oz/ac
Treatment 3	see note (*)	No	0	0	0	0
Treatment 4	–	Yes	8.4 oz/ac	2.8 oz/ac	2.8 oz/ac	2.8 oz/ac

* In Treatment 3 fertilizer used was “Super Simple” a granular fertilizer. Composition: $\text{Ca}_2\text{H}_2\text{SO}_4$ [sulfuric acid] + $\text{Ca}(\text{H}_2\text{PO}_4)_2$ [monocalcium phosphate] + 2CaSO_4 [gypsum]

Results

Yield in Cotton Seed (lbs. per acre)	
Treatment 1	1,326.6
Treatment 2	1,445.4
Treatment 3	1,386.0
Treatment 4	1,415.7

Treatment 2 (80% of full fertilizer rate and Penergetic k and p) produced 9.1% more cotton seed than Treatment 1 (full fertilizer rate and no Penergetic).

Treatment 4 (Penergetic k and p, no fertilizer) produced the second highest yield of cotton seed and 2.1% more cotton seed than Treatment 3 (Super Simple fertilizer application, no Penergetic).

Yield in Cotton Fiber (lbs. per acre)	
Treatment 1	508.2
Treatment 2	603.9
Treatment 3	567.6
Treatment 4	594.0

Treatment 2 (80% of full fertilizer rate and Penergetic k and p) produced 18.8% more cotton fiber than Treatment 1 (full fertilizer rate and no Penergetic).

Treatment 4 (Penergetic k and p, no fertilizer) produced the second highest yield, just 1.6% less than Treatment 2 (80% of full fertilizer rate and Penergetic k and p) and 4.7% more cotton fiber than Treatment 4 (Super Simple fertilizer application, no Penergetic).

Note: This trial work was carried out at the Alvorada experimental station, in Fazenda Alvorada, municipality of Luís Eduardo Magalhães – BA (Brazil), during the period from December 2015 to July 2016, related to the 2015/16 cotton crop.

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