Boron in Cotton

Study Details

Date: 1994

Location: University of Tennessee AgResearch site

Soil: Collins silt loam

Crop variety: DPL 50, 38 inch rows

Fertilizers: 80-30-30

Trial design: Randomized complete block, 7 treatments, 5 replications, B applied as *Solubor*® at 0.1 and 0.2 lbs B/ac foliar, 0.5 lbs B/ac soil applied

Results

All treatments increased yield over the control

Two treatments had a significant increase in yield over the control:

1) 0.1 lbs B/ac + 4.4 lbs K2O/ac
2) 0.1 lbs B/ac + surfactant

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Evaluation of Foliar Boron and Potassium of Uptake and Yield of Cotton in 1994

Soil (lbs/ac)		Foliar (lbs/ac)			Yield (lbs/ac)	
Boron	Lime	Boron	K2O	Surfactant	First	Total
		0.1			874	1213 b
		0.1	**4.4**		**913**	**1303 a**
		0.1	4.4	Yes	871	1244 b
		0.1		**Yes**	**945**	**1329 a**
		0.2		Yes	924	1290 b
	1000	0.1		Yes	924	1290 b
0.5					922	1237 b
Check					853	1197 b
LSD (0.065)					NS	98