Boron in Alfalfa

Study Details

Date: 1971

Location: Orange, Virginia, United States

Soil: Tatum silt loam, 1000 lbs/ac 5-10-10 broadcast, lime added to pH 7.5

Crop variety: Williamsburge at 40 lbs seed per acre, planted in April

Trial design: Randomized complete block, 4 blocks plot area of 15’ x 18’. Boron added as *Fertibor*® 0.3 lbs B/ac

Results

Yield was significantly effected from 1366 lbs/ac to 2883 lbs/ac

Boron content in the soil was improved from 0.07 ppm B to 1.17 ppm B

Boron content in the tissue was increased from 10.5 ppm B in the control to 33.3 ppm B

Nitrogen content in the tissue was not affected by boron treatment

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Effect of B application on yield and B and N concentration of alfalfa grown on Tatum silt loam

Treatment	Nutrient Concentrations		Yield (lbs/ac)
	N (%)	B (ppm)	
Check	3.92 a	10.5 b	1366 a
3 lbs B/ac	3.32 a	33.3 a	2883 b
LSD = 5%			