



Combined spray of potassium nitrate and boron in cotton gave the greatest yield increase with 13%

The yield response in cotton to foliar K was obtained in three experiments which included various K sources, pH buffering of the K solution, and the addition of boron to the soil or the foliar K sprays. Out of the four K sources tested, KNO_3 gave the greatest yield increase with 13% compared to the control, while other K sources showed yield increases of 8 to 9% with four applications of 4,1 kg K/ha.

All boron treatments improved lint yield, but best result was found for the foliar applied B plus K application (Table 1). Foliar B and K-nitrate were applied in 93,5 liter of water/hectare at early flower or 2 weeks after, and repeated at 9-14 day interval between the four applications.

Table 1. Effect of boron applied to the soil and via foliar (average of 3 years) on the lint yield in cotton.

Treatment	Dose per application kg B/ha	Total applied kg B/ha	Lint yield kg/ha	Relative yield %
Control	-	-	1093	100
B foliar	0,11	0,45	1176	108
B foliar	0,22	0,90	1110	102
B soil	0,56	0,56	1164	106
B foliar + 11,2 kg K nitrate/ha	0,11	0,45	1237	113