

## **Influence of potassium and sulfur fertilizer on disease management and fibre productivity in Sunnhemp (*Crotalaria juncea* L.)**

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Field experiment on effect of potassium (K) and sulfur (S) fertilizer on management of vascular wilt (*Fusarium udum* f.sp *crotalariae*), interveinal chlorosis and fibre productivity of sunnhemp (*Crotalaria juncea*) was carried out in calcareous soil at Sunnhemp Research Station, Pratapgarh, Uttar Pradesh. The result indicated that the interaction of potassium and sulfur (@ 40 kg K/ha and 60 kg S/ha) resulted in 26% reduction of wilt incidence over the control. Combined application of potassium @20 kg/ha and sulfur 40 kg/ha reduced the interveinal chlorosis to the tune of 22.5%. The highest fibre yield (7.81q/ha) was achieved with combined application of 40 kg potash and 40 kg sulfur/ha which was 40% higher than the control – 5.53q/ha. Application of potassium @ 20kg/ha or 40kg/ha increased the nodulation to the tune of 37% and 31 % respectively.

**Key words:** Potassium, sulfur, *crotalaria juncea*, vascular wilt, interveinal chlorosis, nodulation

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