

## RESEARCH ARTICLE

# Efficacy and economic effect of sulphur in black spot disease (*Alternaria brassicae*) management as well as yield attribute and oil content of toria

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## ABSTRACT

Effect of soil application of eight treatments of sulphur(S) as nutrient on the severity of black spot disease(BSD) caused by *Alternaria brassicae* and yield of toria (*Brassica campestris* L.) were investigated in 2009-10 and 2010-11. The severity of BSD was significantly greater(43.68%) on plant grown in 50 kg/ha sulphur(T5) in comparison to 10 to 40 kg S/ha. It was seen that as increased the dose of sulphur also increases the incidence of disease up to 50 kg but after that reduced the incidence on the leaves. The same pattern was also found on the pod. Maximum yield (14.68q/ha) and oil content(41.69%) was obtained in the plot treated with 50 kg sulphur than all other treatments. It was at par with 40 kg S /ha which proved to be the next best treatment. The control treatment had 9.99 q yield and 36.70% oil content than T<sub>5</sub> (35 kg sulphur). Sulphur applied @ 35kg/ha (T<sub>5</sub>) gave maximum net profit than 28 kg and 21 kg.

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