

Research Article

Effect of application of Ferrous sulphate on the performances of black gram genotypes in calcareous soil

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Summary

Ten blackgram genotypes were evaluated with and without iron for their tolerance to iron deficiency in terms of chlorophyll content, plant growth and seed yield under field conditions in black calcareous soil. Among the genotypes, COBG 6 was found efficient which registered higher plant growth and yield and chlorophyll and followed by ADT 3, TMV 1, CTU 17- 4 and COBG 703. The T.K Local showed poor performance by registering low chlorophyll content and low yield. Soil application of Ferrous sulphate @ 50 kg ha⁻¹ (+Fe) resulted in higher plant growth and yield in all the genotypes as compared to control (-Fe).

Key words : Blackgram genotypes, Plant height, Shoot dry weight, Yield, Total chlorophyll content

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