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Influence of water soluble water soluble fertilizers on yield maximization of pulses of Southern transitional zone of Karnataka

Narayana S Mavarkar, Madhu G and Umesha C
University of Agricultural and Horticultural Sciences, India

A field experiment entitled influence of water soluble water soluble fertilizers on yield maximization of pulses of southern transitional zone of Karnataka" was conducted at Zonal Agricultural and Horticultural Research Station, Shivamogga, during *kharif* season of 2017-18 on sandy loamy soil having acidic in pH (5.2), low in organic carbon (0.38 %), poor in nitrogen (165.2 kg ha^{-1}), rich in phosphorus (58.45 kg ha^{-1}) and medium with respect to potassium (239.41kg ha^{-1}). The experiment was laid out in a randomized complete block design with 15 treatment combinations replicated thrice. The results of the experiment shown that significantly higher seed yield of green gram and black gram (950 and 1154.3 kg ha^{-1}, respectively), straw yield (1643.5 and 2259.9 kg ha^{-1}, respectively), number of pods (43.4 and 45.7, respectively) and pod length (12.5 and 12.2 cm, respectively) was recorded with treatment receiving recommended dose of fertilizers and foliar nutrition of MPP and 19:19:19 each at 1% at 30 and 45 DAS and it was on par with the treatment combinations of RDF+MPP and 19:19:19 each at 1% at 30 DAS (937 and 1136.2 kg ha^{-1}, respectively), straw yield (1621 and 2224.6 kg ha^{-1}, respectively), number of pods (42.3 and 45.5, respectively) and pod length (12.3 and 12.0 cm, respectively).

Biography

Narayana S Mavarkar has completed his PhD from University of Agricultural Sciences, GKVK, Bangalore. He is currently working as a Professor and Head, Department of Agronomy, Navile, Shimoga. He has published more than 50 papers in reputed journals and has been serving as a Program Coordinator NSS, Cell UAHS, Naile Shivamogga.

nsmavarkar@gmail.com

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