



RESEARCH ARTICLE :

Optimization of production factors in *Rabi* grain sorghum under resource constraints

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SUMMARY : A field experiment was conducted during *Kharif* season 2016-17 at Sorghum Research Station, V.N.M.K.V., Parbhani. The objective of the experiment was to find out per cent loss of yield when one of the Priority inputs miss due to whatever reasons then know how much per cent reduction in yield found. The results clearly indicated that test weight, grain yield, fodder yield kg ha^{-1} , harvest index (%), GMR, NMR Rs.ha^{-1} and B:C ratio were significantly influenced by application of all priority inputs. Treatment T₂ Full package of practices (FPP) to *Rabi* sorghum recorded highest test weight, panicles / m^2 , grain yield, fodder yield kg ha^{-1} , harvest index (%), GMR, NMR Rs.ha^{-1} and B:C ratio and was found significantly superior over rest of the all treatments, however it was found at par with treatment T₇ FPP minus seed treatment with PSB and Azospirillum. Among different *Rabi* sorghum priority inputs adaptation of only improved variety without any input treatments recorded significantly lowest test weight, grain yield, fodder yield kg ha^{-1} , harvest index (%), GMR, NMR Rs.ha^{-1} and B : C ratio over all priority inputs treatments.

KEY WORDS :

Full package of practices, Priority inputs, Sorghum, GMR, NMR

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