Enhancement in the productivity of *Rabi* sorghum (*Sorghum bicolor* L.) under dryland condition by adopting *in situ* moisture conservation practices on farmers field

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**ABSTRACT**

The Operational Research project is functioning at Zonal Agricultural Research Station, Solapur with one of the objective to demonstrate the impact of *in situ* moisture conservation techniques viz., ridges and furrow and compartmental bunds under farmers management condition and secondly to popularize the productive technology amongst farmers in the Sarole watershed, Tal. Mohol, Dist. Solapur during the period 2002-03 to 2005-2006. The *in situ* moisture conservation techniques were adopted on 15 farmers field having plot size 0.20 ha. each treatments during *Kharif* and *Rabi* sorghum (M-35-1) was grown as test crop following all recommended practices. The results revealed that, the average grain yield of sorghum was highest in ridges and furrow (9.64 q ha\(^{-1}\)) as compared to farmers practice i.e., two harrowing. The per cent increase in grain yield was 17 per cent in ridges and furrow over compartmental bunding and 54 per cent over farmers practice. Similar trend was also noticed in case of fodder yield of *Rabi* sorghum.

**Key words**: *In situ* moisture conservation, *Rabi* sorghum