

1010. **Chittaranjan, S., Adhikari, R.N., Rama Mohan Rao, M.S., Husenappa, V. and Chandrappa, M. 1996.** Water yield from small agricultural catchments in Vertisols of the semi-arid region of South India. *Land Husbandry*, 1(1&2): 65-80.

The paper emphasises the need of efficient management of rain water for increasing water availability to the crops during the growing season, and the collection of excess rain water by water harvesting with a view to develop water resources in the semi-arid black soil region of south India. Studies revealed that 40 mm of the annual rainfall of 500 mm could be harvested to dug out ponds for using as supplemental irrigation. Cultivation practices that maintain a rough surface reduced runoff and improved the moisture storage in the soil profile. Safflower crop reduces runoff by 61 per cent when compared to sorghum, chickpea and cotton. The runoff was reduced with increase in catchment area.