

**Extent of savings in water and the extent of yield improvement due to some of the improved management practices**

Name of practice	Crop	Soil and water conservation		Reference
		Extent of water saving (%)	Extent of crop yield advantage (%)	
Ridge and furrow method	Soybean	Average water saving 27%	8 to 23	Basediya, A. L., Sunita Mishra., Rajesh Gupta., Kumar, P., and Basediya, S. S., 2018. Performance of Ridge and Furrow System on the Growth and Yield Attribution of Soybean in Barwani District of M.P. India. <i>Int.J.Curr.Microbiol.App.Sci</i> 7(8): 499-505 TNAU Agritech portal
	Cotton		15	
	Maize		15	
	Soybean		22.6	
	Cowpea		24.0	
	Colocassia		23.3	
Broad bed furrow	Soybean		81.0	Improved planting methods for <i>in-situ</i> moisture conservation measures in different rainfall regions (NICRA)
Sowing across the slope	Soybean		33.0	
Compartmental bunding	Sorghum		51.8	
Conservation furrow	Cotton		8.3	
	Pigeon pea		60.0	
Sub soiling	Groundnut		10.8	
Laser levelling	Rice-wheat (Meerut) Rice (Ludhiana)	25% savings in water 24% savings in energy	2-5	Jat, M.L.; Gathala, M.K.; Ladha, J.K.; Saharawat, Y.S.; Jat, A.S.; Vipin Kumar, A.S.; Sharma, S.K.; Kumar, V.; Gupta, R.K. Evaluation of precision land leveling and double zero-till systems in the rice-wheat rotation: Water use, productivity, profitability and soil physical properties. <i>Soil Tillage Res.</i> 2009, 105, 112–121. Baljinder Kaur, Satwinder Singh, B.R. Garg, J.M. Singh and Jasdev Singh (2012) Enhancing Water Productivity through On-farm Resource Conservation Technology in Punjab Agriculture. <i>Agricultural Economics Research Review</i> Vol.

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Plastic mulching	General	4.7 to 12.5 % saving	7.5 to 22.0	Raju Lal Bhardwaj., 2013. Effect of mulching on crop production under rainfed condition - a review. Agri. Reviews, 34(3): 188-197.
Plastic mulching		45% saving		Chaudhry, M. R., Aziz. A., Malik and M. Sidhu., 2004. Mulching Impact on Moisture Conservation-Soil Properties and Plant Growth. Pakistan Journal of Water Resources, 8(2):1-8
Rice straw		30% saving		
Mechanical Loosening of soil treatment		15% saving		
Trench cum bunding	General	15% saving		Rajkumar, R. H., and Satishkumar, U., 2014. Effect of soil and water conservation measures (field bunds) on soil moisture content in Beeralagudda micro watershed. An Asian Journal of Soil Science, 9(1): 149-151.