

49. Sastry, G., Dhruva Narayana, V.V., Rama Prasad and Sharda, V.N. 1994.  
Conservation mechanical measures for management of agricultural watersheds.

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The paper discusses the findings of an experiment designed to generate runoff and soil loss data from bench terracing, contour bunding, graded bunding, contour farming and cultivated fallow on monoclinal runoff plots laid on 2, 4 and 8% slopes, compare the crop yields of maize and wheat, hydrographs and sediment discharge graphs, and develop finite difference models and validate them using observed hydrographs and sediment discharge graphs. The predicted and observed hydrographs compared satisfactorily. The data generated from the study provide scope for the selection of conservation measures based on prevailing soil loss and anticipated reduction keeping in view of earth work requirements. The integration of crop yield and corresponding soil loss data clearly indicated the effectiveness of mechanical measures.