

588. Verma, B., Prakash, C., Prasad, S.N., Pratap Narain and Rao, D.H. 1987. Response of wheat, gram and coriander to supplemental irrigation with harvested runoff. Abst.No. 14, National Symp. on "Land and Water Management in Ravines", CSWCRTI, Research Centre, Agra, March 19-22, 1987: 12.

Success of double cropping under rainfed conditions in semi-arid tract of Kota receiving mean rainfall (790 mm) is a gamble. In order to raise assured *rabi* crops limited supplemental irrigation was provided with harvested runoff collected in 0.6 ha m polyethelene lined pond from 8 ha agricultural watershed. The data indicated that grain yields of all the crops increased with increasing levels of irrigations and maximum yield of wheat (1658 kg/ha), gram (1095 kg/ha) and coriander (1217 kg/ha) was obtained with three irrigations (each of 5 cm). The average increase was 477, 907 and 1182 kg/ha, 164, 450 and 773 kg/ha and 252, 615 and 952 kg/ha with one, two and three irrigations over control yield of wheat (476 kg/ha), gram (322 kg/ha) and coriander (281 kg/ha), respectively.