

1008. Arora, Y.K. and Mohan, S.C. 1994. Water harvesting and *in situ* moisture conservation practices for fruit crops in Doon Valley. *Indian J. Soil Conserv.* 22(1-2):63-71.

Various moisture conservation treatments and their effects on growth parameters, fruit yield quality characteristics and soil moisture have been discussed in the context of Doon Valley where moisture stress during post monsoon and summer period is a major constraint for economic yield of fruit crops. Lemon, sweet orange and plum orchards through land shaping and *in situ* moisture conservation through water harvesting have been discussed. V-shaped micro-catchments with runoff surfaces mulched with grass have been found effective for yield increase upto two to two and a half times with better fruit quality. Such techniques are suited to degraded rainfed lands, where irrigation facilities are not available and supplemental irrigation is also uneconomic.