

279. **Khybri, M.L. 1990.** Effect of dose and duration of mulch on soil and water losses in maize. Abstracts, National Seminar on "Conservation of Land and Water Resources for Food and Environmental Security", New Delhi, Jan. 18-20, 1990: 09.

A study was undertaken at Dehradun on Dhulkot silty loam soil to find out the effect of dose and duration of grass mulch on soil and water losses and yield of crops. Maize was grown on 8% slope in standard size runoff plots. Mulch doses of 4 t/ha and 2 t/ha were tried for 3 years. Mulch applied @ 4 t/ha reduced runoff from 39% of rainfall to 15% of rainfall and soil loss from 22.4 t/ha to 5.1 t/ha; whereas mulch @ 2 t/ha reduced runoff to 17% of rainfall and soil loss to 6.9 t/ha which are close to mulch dose of 4 t/ha. Erosion control practice factor, 'P' in USLE is 0.23 for mulch @ 4 t/ha and 0.31 for mulch @ 2 t/ha.