117. Pratap Narain, Verma, B. and Singhal, A.K. 1986. Soil and water loss under different vegetative covers at 1% slope on Kota clay soils. In: Soil Conservation India. Eds. R.K.Gupta & M.L.Khybri, IAS&WC, Dehradun: 91-96.

Runoff, soil and nutrient losses were studied from 1976 to 1979 in runoff plots 22 13 length x 1.83 m (1/247 ha) at 1% slope on Kota clay soils. Two replications of four cases covers namely urd, soybean, cowpea and jowar, arhar, arhar and Dichanthium annual grass were grown maintaining two plots as cultivated fallow. Maximum runoff 28%) and soil loss (10 to 13.3 tonnes/ha/year) was recorded on cultivated fallow minimum (4.5% runoff and 0.12 tonnes/ha/year soil loss) under the grass cover Dichanthium annulatum. Amongst kharif legumes cowpea provided more effective protection as compared to blackgram and soybean. On an average, loss of available numbers in runoff was 7 to 11 kg N/ha, 3 to 8 kg K/ha and < 1 kg P/ha/year. The loss of available nutrients from grass plot was negligible.