273. Khybri, M.L., Bhardwaj, S.P., Prasad, S.N. and Sewa Ram. 1983. Effect of minimum tillage and mulch on erosion losses in maize on 8% slope. Paper Summaries, Internl. Conf. "Soil Erosion and Conservation", Honolulu (Hawaii) USA, Jan. 16-22, 1983: 47.

A study was conducted in standard size runoff plots 1/247th ha area on 8% slope at Dehradun (India) to find out the effect of minimum tillage and mulch on maize in checking erosion. Based on rainfall amounts for 3 years (1978-80), an average of 1325.6 mm fell during the crop season. Under normal tillage, 49.4% of rainfall was lost as runoff which was reduced to 22.3% under mulch. Strip tillage did not reduce runoff. Soil loss under normal tillage was 36.5 tonnes/ha, 29.2 tonnes/ha under strip tillage and 6.2 tonnes/ha under mulch. Loss of total nutrients without mulch was 37 kg N, 60 kg P2O5 and 949 kg K2O/ha which were reduced under mulch treatment to 11 kg N, 13 kg P,O, and 161 kg K,O/ha. Loss of available

nutrients was 17 kg P,O, and 30 kg K,O/ha without mulch and only 4 kg P O, and 12 kg