

936. **Samraj, P., Chinnamani, S., Haldorai, B. and Henry, C. 1986.** Preliminary studies on runoff, soil loss and crop production in different canopy conditions under tea plantations in the Nilgiris. In: Soil Conservation in India (Eds) R.K. Gupta & M.L.Khybri, 1986, IASWC, Dehradun: 97-99.

Presents results of a seven years study conducted at Ootacamund in the Nilgiri hills. It has been indicated that the runoff and soil loss were least (0.101%, 32 kg/ha) under excellent canopy cover followed by fair (0.154%, 83 kg/ha) and poor canopy cover (1.093%, 711 kg/ha). In the newly established tea plantations with the usual soil conservation measures the runoff and soil loss were comparatively much less i.e. 0.171%, 5 kg/ha in mulch and 0.401%, 159 kg/ha in drains, than similar plantations where no soil conservation measures were adopted (15.786%, 16,357 kg/ha). The crop productivity studies also indicated the increase in yield adopted under soil conservation measures (1271 kg, 1567 kg and 1385 kg) under mulch and drains, mulch only and drains only, respectively over control.