

928. **Ram Babu and Dhruva Narayana, V.V. 1982.** Analysis of hydrological data of small watersheds in Doon Valley. Internl. Symp. on "Hydrological Aspects of Mountainous Watersheds", Roorkee, Nov. 04-06, 1982, Manglik Prakashan, Saharanpur. VII: 46-52.

This paper presents the rainfall-runoff relationships developed by statistical analysis for the watersheds in Doon Valley. The statistical analysis was done with the data from five experimental watersheds of varying sizes (4.4 to 83.4 ha) and land uses (agriculture, forest and combination of both). The analysis has shown that linear mathematical model is good if not better than the logarithmic one in predicting runoff volume and peak. Analysis of variance showed that the runoff peak is more influenced by the watershed characteristics (area and length of the main channel) than rainfall parameters while runoff volume seems to be more dependent on rainfall factors (total rainfall and duration of storm) of the region.