

901. **Juyal, G.P., Katiyar, V.S. and Arya, R.K. 1995.** Trapezoidal flume for gauging of hilly watersheds. In: *Torrent Menace: Challenges and Opportunities* (Eds.) G.Sastry, V.N.Sharda, G.P.Juyal and J.S.Samra, CSWCRTI, Dehradun: 164-185.

The paper deals with trapezoidal flumes which have been found suitable for gauging of hilly watersheds in Himalayas with heavy sediment laden flows. They have an added advantage over the weirs that they can be used in streams with low gradients and also at steep channel slopes. Such flumes have been constructed to gauge watersheds with different landuses viz. agriculture, forest and mined. Watershed areas varying from 25 to 328 ha with peak discharge of 7-48 cumecs have been gauged. Design, planning and construction of trapezoidal flumes are discussed in greater details.