

1242. **Samra, J.S. and Singh, Shiv Charan. 1994.** Floristic diversity due to time differential in imposition of integrated watershed measures. Proc. Vol. II, 8th Intl. Soil Conservation Conference, Dec. 4-8, 1994, New Delhi, India (1997): 1526-1534.

Bioengineering measures were adopted for rehabilitation of two degraded watersheds at Bunga village in Haryana State in 1984 and 1989. Biotic interference in the watershed area of 155 ha in Bunga 1 and 101 ha in Bunga 2 was regulated by constructing earthfill dam at the entry points. Other measures like trenching for *in situ* moisture conservation, gully plugs, gabions, grade stabilizers, etc. were also adopted. Thirtytwo samples of vegetation were sampled from each of topographic positions (top, mid and toe) in both the watersheds. Results revealed that Bunga 1 which was treated five years in advance to Bunga 2 had more number of species with more evenness in the distribution of individuals. Number of very abundant species was also higher in Bunga 1. Importance Value Indices (IVI) of trees were higher in all the three topographic positions of Bunga 1 and reverse was true for the shrubs. Trees as compared to grasses and shrubs were found to be relatively better discriminators of the top and toe positions of the two watersheds.