

103. **Agnihotri, Y. 1984.** Fitting of probability distribution functions to annual maxima of daily rainfall for Chandigarh. *J. Ind. Soc. Agri. Stat.*, XXXVI(3):147.

Four distributions viz. normal, log normal, gumbel extreme value and log pearson type III have been fitted to the observed values of annual maxima of daily rainfall at various percent chances. Daily rainfall data for 26 years (1958-1983) recorded at Chandigarh have been used for the analysis. The study shows log pearson type III distribution to give the best fit to the observed values. Log normal, normal and gumbel extreme values distributions do not provide overall fit to the observed data as confirmed by  $\chi$  test. The later 3 distributions, however, show divergence of the probable values with the observed ones only at 80% chances and above.