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analysis of one day maximum rainfall data have been done using 60 years' records of 25 stations comprising six hill districts of U.P. Himalayas (Almora, Dehradun, Garhwal, Pithoragarh and Nainital). The three probability distribution which are widely used in hydrology viz. Gumbel distribution, Log Normal and Log Pearson's type III distribution have been compared with observed The Log Pearson's type III distribution gave the closest fit to the observed data. On see sees of Log Pearson type III distribution, one day maximum daily rainfall for various periods were worked out for all the 25 stations. Isohytel maps for three return (10, 20 and 50 years) were prepared which may be utilized in determining one day rainfall for the ungauged sites in the region.