

2. **Adhikari, R.N., Bhaskar Rao, P. and Rama Mohan Rao, M.S. 1988.** Auto regressive models for drought management. National Symposium on Recent Advances in Dryland Agriculture, CRIDA, Hyderabad, Sept. 13-16, 1988. Scientific Publishers, Jodhpur, 1993: 1-12.

The water deficit analysis in the present study aimed at finding out the magnitude of moisture stress that the crop experiences in different monthly periods. Using the meteorological data on rainfall and evaporation recorded for the low rainfall tract of Bellary, water deficit values were calculated by using Thornthwaite's technique. The results revealed that on an average, no single month has recorded surplus water during a year. The water deficits were comparatively less during *rabi* season than *kharif* season. An attempt was made to predict the monthly water deficits, which is assumed to be the magnitude of drought, using Auto regressive models.