

PREDICTIVE MODELS FOR THE AREA, PRODUCTION AND PRODUCTIVITY OF THE MAJOR PULSE CROPS IN DIFFERENT DISTRICTS OF NORTHERN HILLS OF CHHATTISGARH

A. SAHU, M. L. LAKHERA & K. K. PANDEY

Department of Agriculture, Statistics, Indira Gandhi Krishi Vishwavidhyalaya, Raipur, Chhattisgarh, India

ABSTRACT

Three models has been used for the study of trend analysis of the Tur and Gram for the three district (Sarguja, Koria and Jaspur). Linear and Quadratic Models has been used for Sarjuja and Koria and used for Sarguja, Koria and Jaspur district. Present study period was 1979-80 to 2012-13, which divided into three group i.e. period- I (Pre-establishment of IGKV, Raipur: 1979-80 to 1986-87), period-II (Post-establishment of IGKV, Raipur and pre-period of M.P. and C.G. partition: 1987-88 to 1997-98), and period-III (Post-period of M.P. and C.G. partition: 1998-99 to 2012-13). CGR (%), CV (%) and Instability Index have been calculated for the respective periods and all three models. The studies is very necessary not only for understanding the growth trends and magnitude of fluctuations in crop production, but are also useful for scientific planning and effective implementation of agricultural developmental at different levels.

KEYWORDS: CGR, CV, Exponential, Linear and Quadratic Models and Instability Index, *etc*