

# **Growth and Instability of Maize Production in Andhra Pradesh: an Inter-District Analysis**

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## **ABSTRACT**

In order to assess the performance of area, production and productivity of maize in Andhra Pradesh, the present study was taken up by estimating the patterns of growth and magnitude of instability, and assessing the explanatory variables' affects on production during last two decades. Time series data for the period 1990-91 to 2014-15. on area, production and productivity were collected. Compound growth rates (CGR), Coppock's Instability Index (CII), Decomposition of change in average production were employed for the inter-district analysis of the maize production in Andhra Pradesh. The result revealed that growth rate in area (26.64 per cent per annum), production (33.64 per cent per annum) and productivity (5.99 per cent per annum) were higher in srikakulam district whereas it was least in area (-0.68 per cent per annum) and production (3.08 per cent per annum) in Visakhapatnam district and yield (1 per cent per annum) in Vizianagaram district. The instability in production was mainly due to fluctuations in yield rather than area changes. Decomposition analysis revealed that mean area effect was higher than the mean yield effect on the production differential. So, growth in production should mainly come from area rather than yield.

Key words: *Coppocks instability index, Decomposition analysis, Growth rate and Maize.*