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International Journal of Agricultural Sciences Volume **15** | Issue 2 | June, 2019 | 288-296

■ ISSN : 0973-130X

© DOI:10.15740/HAS/IJAS/15.2/288-296 Visit us : www.researchjournal.co.in

RESEARCH PAPER

Trend analysis and future projections in maize crop in three disrticts of Northern Telangana Zone

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Abstract : A study on "growth rates, growth models and future projections of maize crop in three districts of Northern Telangana Zone " has been undertaken to estimate the growth rates of maize crop in three districts of Northern Telangana Zone and fitted the adequate trend equation for the future projections by 2020 AD. Attempts have been made to examine the trends and forecasting in area, production and productivity of maize crop in three districts of Northern Telangana Zone. Linear and compound growth rates were calculated for this purpose. Ten growth models were fitted to the area, production and productivity of maize crop and best-fitted model for future projection was chosen based upon least residual mean square (RMS) and significant Adj R². Besides, the important assumption of randomness of residuals was tested using one sample run test. The reference period of study was from 1979-80 to 2012-13 and it was carried out in three districts of Northern Telangana Zone.

Key Words : Rice, Energy Input, Energy output, Specific energy

View Point Article : Sreenivas, A. and Chary, Srinivasa (2019). Trend analysis and future projections in maize crop in three disrticts of Northern Telangana Zone. *Internat.J.agric.Sci.*, **15** (2) : 288-296, **DOI:10.15740/HAS/IJAS/15.2/288-296.** Copyright@2019: Hind Agri-Horticultural Society.

Article History : Received : 27.04.2019; Revised : 13.05.2019; Accepted : 22.05.2019