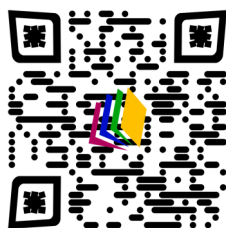


e-ISSN: 2582-502X

Asiatic Society for Social Science
Research. 2(2): Dec 2020, 106-108.

Research Article



www.asssr.org

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(Peer Reviewed)

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Received on 22.11.2020

Modified on 30.12.2020

Accepted on 08.01.2021

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Analytical Study of Growth and Instability in Cotton Production of India

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ABSTRACT:

The cotton crop in India is concentrated upto the extent of 98% in three zones of India i.e. Northern Zone, Central Zone and Southern Zone. Cotton being an important fibre crop has been focussed in the present study with respect to compound growth rate and instability in area, production and yield in the three important zones. It is found from the study that though central zone shares the maximum area and production of cotton in India, the yield is lowest in this zone. The southern zone performs better in terms of compound growth rate and instability of yield of cotton. The high instability in production of cotton in Southern India may be attributed to high instability in area under cotton. The production can be stabilised with higher growth rate only by improving the growth rate of area with stabilising effect.

KEY WORDS: Compound Growth Rate, Instability, Coefficient of Variation significant.

Introduction

Cotton is one of the important fibre crop and the most widely grown commercial crops in India. Cotton is grown mainly in three zones of India i.e. Northern Zone (Punjab, Haryana and Rajasthan), Central Zone (Gujurat, Maharastra and Madhya Pradesh) and Southern Zone (Andhra Pradesh, Telengana, Karnataka and Tamilnadu). More than 98 % of total area under cotton in India is in these three zones. The study is based on Compound Growth Rate and Instability of area, production and yield of cotton in the three zones of India (i.e. Northern Zone, Central Zone, Southern Zone) for the period from 2004-05 to 2019-20.

Materials and Methods

The study is based on the secondary source of data on area, production and yield of cotton in Northern Zone, Central Zone, Southern Zone of India and the country as a whole for the period from 2004-05 to 2019-20. The area is given in '000 ha, production in '000 bales (1 bale =