

ESTIMATING GROWTH RATES AND DECOMPOSITION ANALYSIS OF MAJOR PULSES IN GUJARAT

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Received-02.12.2018, Revised-22.12.2018

Abstract: India is known for the world's largest pulses sector, producing and consuming diversity of pulses. This paper explores the trend in area, production and productivity of major pulse crops *i.e.* chickpea and pigeon pea grown in Gujarat as well as India. The results showed that the CGRs of area, production and yield over sixteen years (2001-02 to 2016-17) were positive and significant for total pulses in India while, in Gujarat production and yield was increased significantly. Further it was observed that the CGR of area, production and yield of chickpea was positive and significant, whereas in case of pigeon pea the CGR of production and yield was positive and significant in Gujarat. The decomposition analysis concluded that increasing area of chickpea, pigeon pea and total pulse play an important role in increasing production of these crops in India but in Gujarat increasing in yield was increased total production of pulses. Import of total pulses was higher than export of total pulses with 10.48 per cent CGR in India during last twelve years. Whereas, chickpea contribute higher proportion for both total export and import in India. To meet the growing requirement, the country has to produce an adequate amount of pulses as well as remain competitive to keep the domestic production. Overall performance of pulse crops was quite impressive which can be seen by positive growth rate and reduced instability, which is good sign for sustainable agriculture and regional food security.

Keyword: Pulses, Compound growth rate, Instability index, Decomposition analysis, Export, Import

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