



Research Paper

Spatio-temporal regional trend and instability of fertilizer consumption gap in Gujarat state

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ABSTRACT : The present study was undertaken with a view to assess the growth and instability of fertilizers consumption gap by using district wise fertilizer consumption data and actual recommended requirement of fertilizers for crops grown in the districts for the period 1960-61 to 2009-10 and analyzed by exponential growth function. The compound growth rates (CGR) of gap for N were found negative and significant for most regions and periods along with Gujarat as a whole. The CGRs of gap for P were found negative and significant in all regions and periods except one or two periods. The CGRs of gap for K was found negative and statistically significant in one or two periods for almost all regions and state as a whole. The CGRs of gap for total (NPK) fertilizers in all regions were found negative and significant in utmost three periods, while for Gujarat as a whole the CGRs was found negative and significant in all periods except period-II. Thus, the trend and instability of different fertilizer consumption gap over periods of time in all regions of Gujarat showed variability and instability.

KEY WORDS : Growth rate, Instability, Fertilizer consumption gap

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