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Role of agricultural technology on socio-economic development in Hathras district, Uttar Pradesh

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Abstract

Agriculture in India has experienced a significant transformation in the past fifty years, with agriculture being more and more oriented to a productivist form of socio-economic production. Introduction of new agricultural technologies, high yielding varieties of seeds, improve access to irrigation, education, efficient use of fertilizers and extension services are capable of enhanced productivity per unit of land. Increased production further reflects on socio-economic transformation in rural communities. The study uses secondary data from various sources published by the Government of India and the Government of Uttar Pradesh. The study covers the period between 2000-01 and 2014-15 to analyze the role of agricultural technologies on socio-economic transformation in Hathras district. The methodology adopted for the present study are Data Interpolation or Extrapolation, Yang's Crop Yield Index, Dayal's Labour Productivity, Data Standardisation technique Z- score, and Composite Z score. The study concludes that the district has experienced tremendous technological changes in agricultural practices, agriculture induced better productivity and productivity further leads to overall socio-economic transformation.

Keywords: Agriculture, technology, productivity, socio-economic development

Introduction

productivity. The country like India has 2017; Singh, 2019). two sources to increase in agricultural

The agriculture sector is the single uses and the already high share of arable largest employer in the world (Seidel et al., land in the total geographical area of the 2017). Even in India, the agriculture sector country, further expansion in area under employs more than 50 per cent people. The cultivation is not feasible. Hence to ensure application of high yielding varieties of the economic well being of the farmers, the (HYV) seeds (1966-67) and technological only viable option is to continue to enhance development have given a quick response productivity per unit of land through the in the form of farm production and modern means of agriculture (Chand,

Despite the diminishing share of GDP output viz. area and productivity. Due to the from agriculture over the decades, the rising demand for land for non-agricultural economy as a whole continues to depend on