

# **WEATHER SHOCKS, CLIMATE AND AGRICULTURAL GROWTH: A CASE-STUDY OF INDIA**

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## **ABSTRACT**

This study uses district level data of temperature and rainfall variations to examine the short-run effects of weather shocks on agricultural output growth – measured as growth rate of per capita real agricultural GDP in the Indian context. The district-level panel data analysis carried out during the study period 2004-2010. To get more insights on agricultural level effects the results are represented at annual, rabi and rabi seasons. To understand the impact of weather fluctuations on the poorer and hotter regions compared to richer and colder regions dummy variable is used. From the analysis we found some unexpected results of weather variability in affecting the economy. Water Deficit and Length of growing periods also have a significant role in affecting agricultural economic growth rate.