

INFLUENCE OF CLIMATE CHANGE ON CROP YIELD: A CASE STUDY

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ABSTRACT

Climate is a primary determinant of agricultural productivity. Agriculture has been a major concern in the discussions on climate change. Rainfall and temperature variation are considered to be the most important and significant weather parameters in agricultural production. The present study has been taken up to find out the changes or variability in annual and monsoon seasonal rainfall, temperature and relative humidity and yield of crop over Eastern part of the state of Uttar Pradesh at Varanasi district. The results of rainfall analysis revealed that district is getting maximum amount of rainfall during southwest monsoon and its variability particularly during monsoon season is of great significance to yield of crop. To have an idea of the effect of climate change on major crop rice and wheat analysis has been done and discussed.

INDEX TERMS— Crop yield, climate parameter, rainfall, temperature