



A STUDY OF IMPACTS OF CLIMATIC CHANGE ON SUSTAINABLE AGRICULTURE

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ABSTRACT

Agriculture is a human activity that is intimately associated with climate. It is well known that the broad patterns of agricultural growth over long time scales can be explained by a combination of climatic, ecological and economics factors. Sustainable agriculture can be broken into three components: economic, environmental, and social. A major concern in the understanding of the impacts of climate change is the extent to which agriculture will be affected. Global climate change has become an important area of investigation in natural sciences and engineering, and irrigation has often been

cited as an area in which climate change may be particularly important for decision-making. Climate change has many effects on the hydrological cycle and thus, on water resources systems. The planning and design process needs to be sufficiently flexible to incorporate consideration of and responses to many possible climate impacts. The main factors that will influence the worth of incorporating climate change into the process are the level of planning, the reliability of the forecasting.

KEY WORDS

Warming, Climate change, Sustainable agriculture, Forecasting