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## Global Warming and Its Effects on Agriculture Sector

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### Introduction

The atmosphere surrounding the earth is made up of nitrogen (78%), oxygen (21%) and the remaining 1% is made up of trace gases (called so because they are present very small quantities) that include carbon dioxide, methane and nitrous oxide. These gases also called greenhouse gases cat as a blanket and trap heat radiating from the earth and make the atmosphere warm. Beginning with the industrial revolution global atmospheric concentrations of these greenhouse gases have increased markedly as a result of human activities. The global increases in carbon dioxide concentration are due primarily to fossil fuel use and land use change, while those of methane and nitrous oxide are primarily due to agriculture. As a result we are witnessing global warming.

The increasing green-house gases (GHG) resulted in global warming by 0.74°C over past 100 years and 11 of the 12 warmest years were recorded during 1995 – 2006. The Intergovernmental panel for Climate Change (IPCC) projec-

tions on temperature predicts an increase of 1.8 to 4.0°C, by the end of this century. Some changes will affect agriculture through their direct and indirect effects on crops, soils, livestock, fisheries and pests. Tropical countries are likely to be affected more compared the countries situated in temperate regions. The brunt of environmental changes is expected to be very high in India due to greater dependence on agriculture, limited natural resources, alarming increase in human and livestock population, changing pattern in land use and socio-economic factors that pose a great threat in meeting the food, fiber, fuel and fodder requirement.

There is a likelihood of a considerable impact on agricultural land-use due to snow melt, availability of irrigation, frequency and intensity of inter-and intra- seasonal droughts and floods, soil organic transformation matters, soil erosion and availability of energy as a consequence of global warming, impacting agricultural production and hence, the nations, food security global warming due to greenhouse effect is expected to impact hydrological cycle precipitation, evapo-transpiration, soil moisture etc, which would pose new challenges for agriculture.

### Meaning of Climate Change:

Climate change refers to a statistically significant radiation in either the mean state of the climate or in its variability, persisting for an extended period specifically decades or longer. Climate change may be due to natural internal processes or external forcing or to persistent