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A REVIEW ON EFFECTS OF CLIMATE CHANGE ON PLANT DISEASES

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ABSTRACT

Increasing greenhouse gas emission to the atmosphere are causing global warming. The observed climate changes on the world during the last 50 years are mostly due to human activities. As the atmosphere's temperature and carbon dioxide levels increase, plants' physiological responses change, and crop disease severity worsens. As a consequence of host plant migration to new places, warming may promote agroclimatic zone alterations, leading in the establishment of novel disease complexes. Global temperatures have increased by around 0.9°C in the previous century, but by 2100, they are expected to climb by 0.8 to 3.6°C. Not only would such changes have an influence on crop growth as well as cultivation, but they will also have had an impact on the reproduction, distribution, or severity of a variety of plant diseases. To include more detailed climatic forecasts at different levels, several plant disease models have been created. Plant or pathogen population adaptation capacity may out to be one of most significant indicator of extents of weather change impacts at the population level. With appropriate examples, this paper emphasizes different impacts of weather changes on plants diseases or their consequences.

KEYWORDS:*Climate Changes, CO_2 GHG, Plants Diseases, Plant Pathogen, Temperature*.

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