

## A Systematic Review on the Effect of Climate Change on Rice Farming in Nepal

**Authors :** Tulsi Ram Bhusal

**Abstract :** Global climate change is known to have a huge impact on agriculture due to changing in rainfall pattern and elevated air temperature that lead to drought and/or flooding. This systematic study has focused on agriculture in Nepal. The study has shown that the trend of current climatic change is affecting rice production, while the farmers with technological access have tried to adapt to the changing conditions at their level. There is insufficient intervention from the government side in terms of policies and schemes. The lack of sufficient funds is one of the significant reasons in terms of governance. The climatic trends and the way it is affecting the annual rice yield in Nepal has been discussed in this study thoroughly. This study has reviewed published studies and ferred important points regarding the Nepal's status on rice production. Mainly due to the increasing graph of average temperature and other physical conditions needed for the proper cultivation of rice are changing due to which there is significant drop of annual rice production. Although from corners of the country, many farmers have attempted to adapt the methods of cultivation to the changing climatic conditions, lack of access to technologies, and fund allocation from the governmental level, it is difficult for the to bring changes in rice production by the crown without any institutional help. This systematic study effectively presents the magnitude of the impact on rice cultivation due to climatic changes in recent times in Nepal. This review aims to bring the current scenario of Nepal's rice farming, and its impacts due to changing climate, which can subsequently contribute in devising plans for proper governance, formulating policies, and allocation of funds for the betterment.

**Keywords :** rice, climate change, rice production, nepal, agriculture

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