

## Assessing the Impact of Climate Change and Global Warming on Crop Yields and Socio-Economic Conditions in Odisha

Climate change and global warming threaten agricultural productivity and socio-economic stability in Odisha. This study aims to analyze the effects of climate change on crop yields and assess the socio-economic impacts on farming communities in Odisha. Using historical climate data and agricultural yield records, we employ regression analysis and ANOVA through SPSS to evaluate trends and relationships. The findings indicate a strong correlation between rising temperatures, altered precipitation patterns, and reduced crop yields in Odisha. The study concludes that climate change adversely affects the region's agricultural productivity and socio-economic conditions. It recommends adopting sustainable farming practices and policies to mitigate these impacts.

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