



STUDY ON THE IMPACT OF CLIMATE CHANGES ON AGRICULTURE

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Abstract: *This study represents a scientific literature review on the impact of climate changes on agriculture worldwide. The impact of climate change on agriculture worldwide is profound and multidimensional, affecting productivity, crop quality and global food security. The aspects addressed in this paper are: decreased yields of staple crops, extreme weather phenomena, changes in pest and disease dynamics and food security. In conclusion, adaptation, through technological innovation and diversification, is crucial to ensure the sustainability of future food production.*

• Introduction

Current climate change represents a long-term transformation of temperatures and weather patterns, caused mainly by human activities. The impact of climate change on agriculture worldwide is profound and multidimensional, affecting productivity, crop quality and global food security.

• Material and method

Scientific papers and public reports of organizations whose object of activity is linked to climatic changes and food security were used in our study.

• Results and discussions

The most important aspects addressed in this paper are: decreased yields of staple crops (among the most affected crops we mention corn, wheat and soybeans), extreme weather phenomena (drought and heatwave, floods), changes in pest and disease dynamics and food security (strategies such as crop diversification, advanced irrigation and resilient varieties).

• Conclusions

Adaptation, through technological innovation and diversification, is crucial to ensure the sustainability of future food production.