

Global Agriculture and Climate Change



작성자: Dr. Emily Carter

날짜: 2023-10-15

목차

1	Summary	2
2	Climate Change and Agricultural Challenges	3
2.1	Temperature Rise	3
2.2	Water Availability	3
2.3	Crop Yields	3
2.4	Pests and Diseases	3
2.5	Adaptation Strategies	4
3	Conclusion	5



1 Summary

This report examines the growing impact of climate change on global agriculture, focusing on temperature shifts, water scarcity, and adaptive strategies. It highlights key findings from recent studies and outlines recommendations for sustainable farming practices.



2 Climate Change and Agricultural Challenges

Rising temperatures and erratic weather patterns are reshaping agricultural landscapes worldwide. This section explores five critical factors disrupting food production systems.

2.1 Temperature Rise

Average global temperatures have increased by 1.1°C since pre-industrial times, extending growing seasons in some regions while causing heat stress in staple crops like wheat and rice.

2.2 Water Availability

Droughts and shifting precipitation patterns are reducing water access for irrigation. Regions like Sub-Saharan Africa and South Asia face severe water scarcity risks.

2.3 Crop Yields

Yield losses are projected to rise by 25

2.4 Pests and Diseases

Warmer winters allow pests like the corn rootworm to thrive. Crop diseases such as wheat rust are spreading faster due to climate variability.

2.5 Adaptation Strategies

Solutions include drought-resistant seeds, precision irrigation, and agroforestry.

Governments must invest in climate-smart agriculture to protect food security.



3 Conclusion

Climate change demands urgent agricultural transformation. By adopting resilient practices and scaling innovations, the global community can mitigate risks and ensure long-term food security.

