



Global Agriculture Development

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CLIMATE RESILIENCE & SUSTAINABLE AGRICULTURE REPORT 2026

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Global Agriculture Development (GAD)

Executive Summary

Climate change is reshaping agricultural systems worldwide. Rising temperatures, changing rainfall patterns, droughts, floods, and extreme weather events present significant challenges to food production and rural livelihoods.

Climate-resilient agriculture provides practical solutions that help farmers adapt to changing conditions while maintaining productivity and protecting natural resources.

This report examines key climate risks affecting agriculture and outlines sustainable approaches that improve resilience, productivity, and environmental stewardship.

Key Challenges

Water Scarcity

Increasing pressure on water resources threatens agricultural productivity and food security.

Soil Degradation

Unsustainable farming practices reduce soil fertility and long-term productivity.

Extreme Weather Events

Floods, droughts, heatwaves, and storms create significant risks for farming communities.

Recommended Solutions

- Climate-Smart Agriculture

- Conservation Agriculture
- Efficient Irrigation Systems
- Agroforestry Practices
- Drought-Resistant Crop Varieties
- Watershed Protection Programs

Strategic Recommendations

Governments, development organizations, and private sector stakeholders should increase investments in climate adaptation, agricultural innovation, and sustainable resource management.

Conclusion

Building climate resilience is essential for ensuring future food security, economic stability, and environmental sustainability.

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