

Climate Change Impact Report 2024

Executive Summary

The **Climate Change Impact Report 2024** offers a comprehensive analysis of the effects of climate change on Afghanistan's agriculture and water resources. As a landlocked country characterized by diverse climates and geographical features, Afghanistan is particularly vulnerable to climate variability, which threatens food security and water availability.

Introduction

This report aims to assess the current state of climate change in Afghanistan and its implications for agriculture and water resources. Given that approximately 80% of the population relies on agriculture for their livelihood, understanding these impacts is crucial for developing effective strategies for adaptation and mitigation.

Key Findings

- **Temperature Increases:** Average temperatures in Afghanistan have risen by 1.8°C over the last century, with projections indicating further increases.
- **Precipitation Changes:** Shifts in precipitation patterns have led to both increased flooding and prolonged droughts, disrupting traditional farming cycles.
- **Crop Yields:** Major crops such as wheat and maize are experiencing reduced yields due to climate stress, leading to increased food insecurity.
- **Water Scarcity:** The depletion of water resources, exacerbated by melting glaciers and changing precipitation patterns, threatens irrigation systems and drinking water supplies.

Implications

- **Policy Recommendations:** The government should invest in climate-resilient agricultural practices, improve water management systems, and enhance community awareness and training on climate adaptation techniques.
- **Future Research:** Ongoing research is essential to monitor climate impacts and develop adaptive strategies tailored to local conditions.

Conclusion

The report underscores the urgent need for coordinated efforts to address climate change in Afghanistan. Implementing effective policies and practices can help safeguard food security and water resources for future generations.