



Literature Review Template: Climate Change and Agricultural Productivity

Title Page

- **Title:** Literature Review on Climate Change and Agricultural Productivity
- **Student Name**
- **Course Name / Number**
- **Instructor**
- **Date**

Introduction

- Define the focus: effects of climate change on crop yields and farming practices.
- Clarify the scope: peer-reviewed studies published between 2005–2025, with emphasis on developing and developed regions.
- State exclusions: non-academic sources, studies unrelated to agriculture.
- Summarize general findings: research shows yield variability, regional disparities, and challenges with adaptation.
- Link to research purpose: understanding how climate impacts productivity to guide policy and innovation.

Main Body



- **Approach:** Thematic (impacts, adaptation strategies, regional comparisons).
- **For each source include:**
 - Research question or aim
 - Methodology (climate models, field data, case studies)
 - Key findings
 - Strengths and contributions
 - Weaknesses or gaps
- Connect sources by showing agreements, contradictions, or complementary evidence.
- Highlight debates such as reliance on predictive modeling versus field-based data.

Analysis and Synthesis

- **Areas of agreement:** Rising temperatures and erratic rainfall reduce yields in many staple crops.
- **Areas of disagreement:** Some studies suggest productivity gains in certain temperate regions.
- **Gaps:** Limited research on long-term adaptation costs, smallholder resilience, and policy effectiveness.
- **Connection to research:** Findings will inform questions about global food security and sustainable farming.

Conclusion



- Summarize the major findings: climate change threatens productivity, but adaptation measures can reduce risks.
- Note common themes: regional differences, crop sensitivity, and innovation needs.
- Restate research aim: evaluate both risks and adaptive capacity in agriculture.
- Suggest future directions: cross-regional studies, integration of climate and economic models, focus on smallholder farms.

References

- Include accurate in-text citations.
- Provide a full reference list in the required academic style.