

## Search Terms

Database	Search terms	Results (n)
Scopus	( TITLE-ABS-KEY ( ( "climate shock" OR "climate extreme" OR "weather extreme" OR "weather shock" OR "extreme weather event" OR "climate risk" OR "weather risk" ) ) OR ( ( "adaptation" OR "adapting" OR "adaptive strategy" OR "adaptive action" OR "adaptive practice" NOT "adaptive capacity" ) ) AND ( ( farming OR farms OR agriculture OR agricultural OR farmland ) ) AND ( ( impact OR outcome OR effect OR influence ) ) )	2817
Web of Science	( TS= ( ( "climate shock" OR "climate extreme" OR "weather extreme" OR "weather shock" OR "extreme weather event" OR "climate risk" OR "weather risk" ) ) OR ( ( "adaptation" OR "adapting" OR "adaptive practice" OR "adaptive strategy" OR "adaptive action" NOT "adaptive capacity" ) ) AND ( ( "farming" OR "farms" OR "agriculture" OR "agricultural" OR "farmland" ) ) AND ( ( impact OR outcome OR effect OR influence ) ) )	9943

Total n= 12,386

Duplicates removed n= 1558

## Inclusion Criteria

Criteria	Inclusion	Exclusion
<b>Population</b>	Farms	Studies focusing on other parts of the agri-food sector (e.g. trade)
<b>Intervention</b>	Studies that analyse the impacts of weather shocks and adaptation at the farm level	Excluded from this review are: <ul style="list-style-type: none"> <li>• Theoretical papers</li> <li>• Government reports</li> <li>• Conference proceedings</li> </ul>
<b>Comparator</b>	Within subject design.	Not applicable.
<b>Outcomes</b>	<p>Primary outcomes:</p> <ul style="list-style-type: none"> <li>• Impacts at the farm level (e.g. loss of earnings, impact on yield)</li> </ul> <p>Additional outcomes:</p> <ul style="list-style-type: none"> <li>• Methods and metrics (e.g. long difference approach, climate versus weather)</li> <li>• Adaptation strategies (e.g. drought resistant crops, changes in irrigation practices)</li> </ul>	Other than listed under the inclusion criteria.
<b>General</b>	Studies will be included provided that full-texts are available in English. No date restrictions are applied: sources will be searched from inception to 2024 as applying a date restriction would limit the scope of the review.	Non-English language studies.