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## Climate Impacts on Global Agriculture and Land Use Change: Insights from the Agricultural Model Intercomparison and Improvement Projekt (AgMIP)

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### Abstract

In order to understand the impacts of climate change on agriculture and land use, research in AgMIP strives to integrate biophysical crop models with economic models on agricultural production, consumption, and trade. Climate change will, on average across the globe, lead to reduced yields, changes in production patterns and higher food prices. By comparing various models in the different domains, the uncertainty ranges in future projections can be better understood. Moreover, global model results provide valuable inputs for regional and local studies on climate change adaptation in agricultural resource use.

**Keywords:** Climate change, crop models