

# Climate Change and Agricultural Productivity

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## Abstract

Assessment of impact on agricultural crops productivity change is important to minimize the crop yield damage caused by climate change for agriculture countries in the world. The global scale crop model such as GAEZ can be used to estimate crops productivity of the whole world.

Uncertainty due to the difference of GCM climate projections and RCP scenarios is included in the results of crops productivity estimated from crop model. Grasping the vulnerability of crop productivity and assessing the future shifts in crop suitability by climate change are necessary.

In this study, impact of climate change on rice productivity for agricultural countries in the Asia-Pacific region can be quantitatively assessed in consideration of the uncertainty of the climate projections.

Key Words: Climate Change, Crop Productivity, Uncertainty, RCP Scenario

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