

JRC Dataset

AgMIP - Food insecurity and global climate change mitigation policy

Description:

Dataset produced in a study (2018) that presents a multiple model assessment on the combined effects of climate change and climate mitigation efforts on agricultural commodity prices, dietary energy availability, and the population at risk of hunger. A robust finding is that by 2050, stringent climate mitigation policy, if implemented evenly across all sectors and regions, could have a greater negative impact on global hunger and food consumption than the direct impacts of climate change. The negative impacts would be most prevalent in vulnerable low-income regions such as Sub-Saharan Africa and South Asia, where food security problems are already acute.

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Keywords:

AGMIP, CLIMATE CHANGE, CLIMATE CHANGE MITIGATION, FOOD AND NUTRITION SECURITY, FOOD INSECURITY, FOOD SECURITY, GLOBAL CLIMATE CHANGE

Related resources:

Data access

AGMIP – Food insecurity and global climate change mitigation policy

Dataset - Interactive download - CSV format

<https://datam.jrc.ec.europa.eu/datam/perm/od/b6722b2e-483b-4f2e-ab45-4eb518939134>

AGMIP – Food insecurity and global climate change mitigation policy

Dataset - bulk download - zip file with CSV inside

<https://datam.jrc.ec.europa.eu/datam/perm/od/b6722b2e-483b-4f2e-ab45-4eb518939134/download/dataset.zip>

Publications

Risk of increased food insecurity under stringent global climate change mitigation policy

Hasegawa, T., Fujimori, S., Havlik, P., Valin, H., Bodirsky, B., Doelman, J., Fellmann, T., Kyle, P., Koopman, J., Lotze-Campen, H., Mason-D'croz, D., Ochi, Y., Perez Dominguez, I., Stehfest, E., Sulser, T., Tabeau, A., Takahashi, K., Takakura, J., Van Meijl, H., Van Zeist, W., Wiebe, K. and Witzke, H., Risk of increased food insecurity under stringent global climate change mitigation policy, NATURE CLIMATE CHANGE, ISSN 1758-678X, 8, 2018, p. 699-703, JRC110841.

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