

Developing a new methodology to identify global hotspots of climatic risk and food security, including a meta-analysis of four decades of climate research in agriculture

Project Title: P259 - Scaling-up Strategies for Climate Risk Management in South Asian Agriculture

Description of the innovation: This research innovation collated and analysed 157 published research articles on climate impact assessments on maize, rice and wheat published globally since 1980s. The results from meta-analysis were combined with future food security projections to identify new vulnerable hotspots. The methodology developed can help in prioritizing climate investments and streamlining risk management policies for major grains.

New Innovation: No

Stage of innovation: Stage 1: discovery/proof of concept (PC - end of research phase)

Innovation type: Biophysical Research

Geographic Scope: Global

Description of Stage reached: The methodology has already been published as a journal article. The same method can be used to identify potential hotspots at sub-national scales for policy planning.

Name of lead organization/entity to take innovation to this stage: <Not Defined>

Names of top five contributing organizations/entities to this stage:

- CIMMYT - Centro Internacional de Mejoramiento de Maíz y Trigo

Milestones: No milestones associated

Sub-IDs:

- 33 - Improved forecasting of impacts of climate change and targeted technology development

Contributing Centers/PPA partners:

- CIMMYT - Centro Internacional de Mejoramiento de Maíz y Trigo

Evidence link: <https://iopscience.iop.org/article/10.1088/1748-9326/aafa3e>

Deliverables associated: <Not Defined>

Contributing CRPs/Platforms: <Not Defined>