

1 CABI CLIMATE CHANGE SERIES



Climate Change & Crop Production

EDITED BY MATTHEW P. REYNOLDS



 **CIMMYT**^{MR}
International Maize and Wheat Improvement Center

 **CABI**

Climate Change and Crop Production

Edited by

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International Maize and Wheat Improvement Center (CIMMYT)

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Current trends in population growth suggest that global food production is unlikely to satisfy future demand under predicted climate change scenarios unless rates of crop improvement are accelerated. In order to maintain food security in the face of these challenges, a holistic approach that includes stress-tolerant germplasm, sustainable crop and natural resource management, and sound policy interventions will be needed.

The first volume in the CABI Climate Change Series, this book will provide an overview of the essential disciplines required for sustainable crop production in unpredictable environments. Chapters include discussions of adapting to biotic and abiotic stresses, sustainable and resource-conserving technologies and new tools for enhancing crop adaptation. Examples of successful applications as well as future prospects of how each discipline can be expected to evolve over the next 30 years are also presented. Laying out the basic concepts needed to adapt to and mitigate changes in crop environments, this will be an essential resource for researchers and students in crop and environmental science as well as policy makers.

CABI improves people's lives worldwide by providing information and applying scientific expertise to solve problems in agriculture and the environment.

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