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## Climate-Driven Crop Yield and Yield Variability and Climate Change Impacts on the U.S. Great Plains Agricultural Production

Meetpal S. Kukal & Suat Irmak

Climate variability and trends affect global crop yields and are characterized as highly dependent on location, crop type, and irrigation. U.S. Great Plains, due to its significance in national food production, evident climate variability, and extensive irrigation is an ideal region of investigation for climate impacts on food production. This paper evaluates climate impacts on maize, sorghum, and soybean yields and effect of irrigation for individual counties in this region by employing extensive crop yield and climate datasets from 1968–2013. Variability in crop yields was a quarter of the regional average yields, with a quarter of this variability explained by climate variability, and temperature and precipitation explained these in singularity or combination at different locations. Observed temperature trend was beneficial for maize yields, but detrimental for sorghum and soybean yields, whereas observed precipitation trend was beneficial for all three crops. Irrigated yields demonstrated increased robustness and an effective mitigation strategy against climate impacts than their non-irrigated counterparts by a considerable fraction. The information, data, and maps provided can serve as an assessment guide for planners, managers, and policy- and decision makers to prioritize agricultural resilience efforts and resource allocation or re-allocation in the regions that exhibit risk from climate variability.

The global drivers of agricultural production and their variability include technology, genetics, climate, soil, field management practices and associated decisions such as fertilizer applications, tillage and crop hybrid selection, irrigation management, row spacing, planting date and depth, population density, etc. A significant portion of the advances in agricultural production is a result of technological advances in genetics, agronomic and resource use practices<sup>1–3</sup>. For example, the sharp yield improvements in the cereal grain yields in the U.S. Great Plains region (Fig. 1) are attributed to the development and adoption of such technologies<sup>4</sup> and management practices such as earlier planting dates that allow adoption of longer-maturity crop hybrids<sup>5</sup> that generally yield greater than short-season hybrids.

Amongst these factors, weather and climate are prominent drivers or influencers of agricultural production systems and it has been shown that recent trends in change of climate variables may be responsible for substantially affecting crop yield trends despite advances in technology and other fronts. The Fifth Assessment Report<sup>6</sup> stated that the last century experienced an increase of 0.74 °C globally in air temperatures due to increased greenhouse gas emission concentrations and the period of 1983–2012 was the warmest 30-year span over the last 800 years for the Northern Hemisphere. Also, it reports evidence of increasing precipitation, especially in mid latitudes of the Northern Hemisphere with medium confidence since 1901, but high confidence after 1951. These changes have had considerable and spatially variable effects on crop production at the global scale<sup>7–14</sup>, resulting in significant yield and economic losses as well as associated challenges in terms of meeting the feed, fiber, and food production of growing human population. On the contrary, there are studies<sup>15</sup> that have shown that negative trends in growing season air temperatures from 1982 to 1998 that caused up to 20% yield increase in maize and soybean yields.

The aforementioned contrasting natures and magnitudes of the impacts of the climate trends are anticipated, owing to the large scale agro-climatic variations (climatological growing period length, growing degree days, rainfall patterns, and prevalence of different crop varieties) that occur in different regions. The complexity of these

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# Symposium On The Impacts Of Climatic Change And Variability On The Great Plains

**Canadian Climate Centre, Canada.  
Inland Waters Directorate**



## **Symposium On The Impacts Of Climatic Change And Variability On The Great Plains:**

Symposium on the Impacts of Climatic Change and Variability on the Great Plains Geoffrey Wall, Canadian Climate Centre, 1991 *Report of the First U.S.-Canada Symposium on Impacts of Climate Change on the Great Lakes Basin*, 1989 The symposium concluded that there is a high likelihood of a major climatic change in the Great Lakes Basin and recommended that the U S and Canada establish a joint planning group to develop an integrated study of the Great Lakes Basin as a regional pilot project Report of the First U.S.-Canada Symposium on Impacts of Climate Change on the Great Lakes Basin Canadian Climate Centre, 1989 *Ecological Consequences of Climate Change* Erik A. Beever, Jerrold L.

Belant, 2016-04-19 Contemporary climate change is a crucial management challenge for wildlife scientists conservation biologists and ecologists of the 21st century Climate fingerprints are being detected and documented in the responses of hundreds of wildlife species and numerous ecosystems around the world To mitigate and accommodate the influences of climate ch **Modeling the Impact of Climate Change on Rice Production in Asia** Robin B. Matthews, C.A.B. International, International Rice Research Institute, 1995 Although recent rapid industrialization has contributed greatly to improved living standards it has also resulted in an increase in concentration of greenhouse gases leading to global warming The relationship between climatic change and agriculture is particularly important as world food production is under pressure from a growing population Rice is the second most important crop in the world after wheat with more than 90% currently grown in Asia where it is the main item of the diet It has been estimated that rice production needs to increase by 70% over the coming decades to meet the demands of population growth Hence it is vital to understand the effect of climate change on rice growth development and production This book is the outcome of a collaborative study between the United States Environmental Protection Agency's EPA Environmental Research Laboratory and the International Rice Research Institute It quantifies the impact of climate change on rice production using crop simulation models and integrates existing knowledge of the effects of increased levels of carbon dioxide and temperature Detailed scenarios are provided for selected major rice producing countries in Asia Japan India Malaysia South Korea China and the Philippines The book represents a major addition to the literature **Impacts of Climatic Change and Variability on the Great Plains** Canadian Climate

Centre, Canada. Inland Waters Directorate, 1991 **Impacts of Climate Change and Climate Variability on Hydrological Regimes** Jan C. van Dam, 2003-10-16 Examines the implications of possible climate changes and variability on both global and regional water resources Droughts Donald A. Wilhite, 2016-09-17 Drought draws together contributions from over 75 leading international researchers in the field to present the most comprehensive body of research on the physical and social dimensions of drought to date Including an extensive range of case studies covering the most drought prone and most affected countries the contributors examine new technology planning methodologies and mitigation actions from recent drought experiences worldwide Following a discussion of the critical concepts of drought the work is divided into

the following additional parts causes and predictability monitoring and early warning techniques impacts and assessment methodologies links between drought and other global issues conclusions and future challenges **Climate Change Impacts On The United States, The Potential Consequences Of Climate Variability And Change, Foundation, 2001**,2001 Global Climate Negotiations United States. Congress. House. Committee on International Relations,1998

Canadian Agriculture in the 21st Century Dr. Marvin S. Anderson, The Canadian Farming Community is facing numerous ongoing challenges including rapidly changing technologies the gradual erosion of the rural lifestyle growing consumer concerns about the healthiness of food and growing environmental concerns including climate change This book begins with an historic overview of agriculture in Canada followed by a statistical profile of the contemporary Canadian farm ranch supporting agri industrial complex and the innumerable farm organizations in Canada The vital role of international trade and government support in the evolution of Canadian agriculture is also highlighted Resource management issues and related hot button issues e g climate change GMO s are also addressed in considerable detail In addition Dr Anderson identifies the likely trends in Canadian agriculture in the immediate years ahead Emphasizing the diversity complexity strength and vitality of the agricultural sector Canadian Agriculture in the 21st Century ultimately highlights how it effectively molds and remains integral to the socioeconomic fabric of both rural and urban Canada An underlying theme is the importance of having Canadian agriculture become increasingly ecofriendly in the challenging years ahead particularly the need to gradually adopt more sustainable regenerative organic technologies and the need to more pro actively serve as a vital CO<sub>2</sub> sink in climate change mitigation Dr Anderson also suggests that the public should financially compensate farmers ranchers for protecting environmental amenities that accrue to everyone A complimentary theme is the need for Canadian agriculture to become increasingly sensitive to consumer concerns particularly with respect to rigorous health standards animal welfare and sustainable resource management *Fire, Climate Change, and Carbon Cycling in the Boreal Forest* Eric S. Kasischke,Brian J. Stocks,2012-08-22 In boreal forests which contain large amounts of the world s terrestrial organic carbon fire is a natural and fundamental disturbance regime essential in controlling many ecosystem processes As a result of predicted climate change in the future the fire regime and consequently the forest cover and carbon storage of boreal regions will undergo dramatic alterations This volume discusses the direct and indirect mechanisms by which fire and climate interact to influence carbon cycling in North American boreal forests The first section summarizes the information needed to understand and manage fire s effects on the ecology of boreal forests and its influence on global climate change issues Following chapters discuss in detail the role of fire in the ecology of boreal forests Subsequent sections present data sets on fire and the distribution of carbon discuss the use of satellite imagery in monitoring these regions and discuss approaches to modeling the relevant processes The book offers the following new results improved estimates of carbon released during fires at a variety of scales from individual sites to the entire North American boreal forest region direct

evidence of enhanced soil respiration after fire in Alaskan boreal forests studies of the influence of fire on long term forest succession patterns modeling results of the effects of climate warming on the fire regime examples of the use of satellite imagery to monitor surface characteristics important in carbon cycling modeling results of how climate change will interact with the fire regime to influence carbon storage      *Northern Great Plains Regional Workshop on Climate Variability and Climate Change* ,1998      *Responding to Global Climate Change in the Prairies* R. Herrington, Brian N. Johnson, Fraser Hunter, Canada. Adaptation and Impacts Section, 1997 This study examines the impacts on the Prairie Provinces of climatic changes and the possible adaptations or responses to those changes It focuses on eight key climate sensitive areas or sectors selected for analysis agriculture forestry energy resources insurance recreation tourism water supply and demand aquatic ecosystems and wildlife biodiversity The first two chapters set out the regional context with information on geography population economics and climate The next three chapters review regional climate sensitivities impacts of climate change and adaptation to climate for each of the areas or sectors The final chapter suggests opportunities for further research The appendix includes a summary of knowledge of proxy records of post glacial climate in the Prairie Provinces      **Selected Readings in Applied Climatology** Robert V. Rohli, 2015-11-25 Over the last 40 years applied climatologists have been producing increasingly sophisticated and insightful research which has led to the current level of recognition that climate and particularly climatic changes have important environmental economic and recreational impacts Furthermore as societal needs for optimizing the use of resources increase applied climatology will continue to grow in importance Selected Readings in Applied Climatology is a collection of academic style vignettes of research over the past 40 years that represents the evolution of this important subfield and therefore provides a framework for appreciating the impacts of climate on society After an introductory editorial chapter placing the development of applied climatology in its historical context the book is divided into topical sections on applied climatological research in atmospheric circulation variability the biosphere water and energy resources agriculture and human health comfort and behavior The final section includes a collection of essays on communicating climatic information to the public Selected Readings in Applied Climatology will be beneficial to those whose field of interest affects and is affected by climate such as meteorologists ecologists water resource planners energy demand forecasters commodities brokers agriculturalists sociologists and media consultants      **Browsing Science Research at the Federal Level in Canada** Brian B. Wilks, 2004-01-01 Wilks provides a historical background list of publications and description of activities for most of the major science initiatives undertaken at the federal level He surveys a wide range of government documents and monographic and serial science collections used by both faculty and students      Impactos de Variações Climáticas E Desenvolvimento Sustentável Em Regiões Semi-áridas ,1993      **Canadian Books in Print. Author and Title Index** ,1975      **Climatological Bulletin** ,1989      Index of Conference Proceedings British Library. Document Supply Centre, 1991

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