

Economic Value of Weather and Climate Forecasts



Edited by
Richard W. Katz and Allan H. Murphy

Economic Value Of Weather And Climate Forecasts

Richard W. Katz, Allan H. Murphy



Economic Value Of Weather And Climate Forecasts:

Economic Value of Weather and Climate Forecasts Richard W. Katz, Allan H. Murphy, 1997 Weather and climate extremes can significantly impact the economics of a region This book examines how weather and climate forecasts can be used to mitigate the impact of the weather on the economy Interdisciplinary in scope it explores the meteorological economic psychological and statistical aspects to weather prediction The contributors encompass forecasts over a wide range of temporal scales from weather over the next few hours to the climate months or seasons ahead and address the impact of these forecasts on human behaviour *Economic Value of Weather and Climate Forecasts* seeks to determine the economic benefits of existing weather forecasting systems and the incremental benefits of improving these systems and will be an interesting and essential reference for economists statisticians and meteorologists *Economic Value of Weather and Climate Forecasts* Richard W. Katz (ed), Allan H. Murphy, 1997-06-13 Weather and climate extremes can significantly impact the economics of a region This book examines how weather and climate forecasts can be used to mitigate the impact of the weather on the economy Interdisciplinary in scope it explores the meteorological economic psychological and statistical aspects to weather prediction The contributors encompass forecasts over a wide range of temporal scales from weather over the next few hours to the climate months or seasons ahead and address the impact of these forecasts on human behaviour *Economic Value of Weather and Climate Forecasts* seeks to determine the economic benefits of existing weather forecasting systems and the incremental benefits of improving these systems and will be an interesting and essential reference for economists statisticians and meteorologists *The Oxford Handbook of Economic Forecasting* Michael P. Clements, David F. Hendry, 2011-06-29 This Handbook provides up to date coverage of both new and well established fields in the sphere of economic forecasting The chapters are written by world experts in their respective fields and provide authoritative yet accessible accounts of the key concepts subject matter and techniques in a number of diverse but related areas It covers the ways in which the availability of ever more plentiful data and computational power have been used in forecasting in terms of the frequency of observations the number of variables and the use of multiple data vintages Greater data availability has been coupled with developments in statistical theory and economic analysis to allow more elaborate and complicated models to be entertained the volume provides explanations and critiques of these developments These include factor models DSGE models restricted vector autoregressions and non linear models as well as models for handling data observed at mixed frequencies high frequency data multiple data vintages methods for forecasting when there are structural breaks and how breaks might be forecast Also covered are areas which are less commonly associated with economic forecasting such as climate change health economics long horizon growth forecasting and political elections Econometric forecasting has important contributions to make in these areas along with how their developments inform the mainstream **Statistical Methods in the Atmospheric Sciences** Daniel S. Wilks, 2011-05-20 This revised and expanded text explains the latest

statistical methods that are being used to describe analyze test and forecast atmospheric data It features numerous worked examples illustrations equations and exercises with separate solutions The book will help advanced students and professionals understand and communicate what their data sets have to say and make sense of the scientific literature in meteorology climatology and related disciplines *Handbook on climate information for farming communities - What farmers need and what is available* Food and Agriculture Organization of the United Nations,2019-05-31 The content of this guide is twofold to describe the most important weather and agroclimatic products that are available by the National Meteorological Service NMS and to identify the most important needs of farmers concerning climate information Special consideration will be given to the local knowledge used by rural farmers too often neglected but a key factor to their ability to cope with climate variability and change An additional objective of this guide is to improve communication among the NMS staff in particular meteorologists and agrometeorologists and to encourage Agro Pastoral Field School APFS trainers and facilitators to be more aware of their respective availability Furthermore one of the most important aims is the exchange of agroclimatic information that corresponds to the needs of all concerned thus facilitating the assessment of the existing climatic risks in farming activities The integration of the Response Farming in Rainfed Agriculture RF approach into Farmer Field School FFS is feasibly an effective way to reconcile NMS products with the needs of farmers RF is a method used for identifying and quantifying rainfall variability at a local level to assess the climatic risks of farming communities The Climate Responsive Farming Management CRFM approach is an enhanced version of RF that uses modern and digital technologies such as specific computer software automatic weather stations real time telecommunication and smartphone applications This approach can be implemented at a minimum cost at the farming level The integration of the Response Farming in Rainfed Agriculture RF approach into FFS is feasibly an effective way to reconcile NMS products with the needs of farmers RF is a method used for identifying and quantifying rainfall variability at a local level to assess the climatic risks of farming communities The Climate Responsive Farming Management CRFM approach is an enhanced version of RF that uses modern and digital technologies such as specific computer software automatic weather stations real time telecommunication and smartphone applications This approach can be implemented at a minimum cost at the farming level

A Companion to Economic Forecasting Michael P. Clements,David F. Hendry,2008-04-15 A Companion to Economic Forecasting provides an accessible and comprehensive account of recent developments in economic forecasting Each of the chapters has been specially written by an expert in the field bringing together in a single volume a range of contrasting approaches and views Uniquely surveying forecasting in a single volume the Companion provides a comprehensive account of the leading approaches and modeling strategies that are routinely employed

The economic value of seasonal forecasts stochastic economywide analysis for East Africa Rodrigues, Joao,Thurlow, James,Landman, Willem,Ringler, Claudia,Robertson, Richard D.,Zhu, Tingju,2016-08-05 There is growing interest within the climate change and development

community in using seasonal forecast information to reduce the losses to agriculture resulting from climate variability especially within food insecure countries. However, forecast systems are expensive to establish and maintain and therefore gauging the potential economic return to investments in forecast systems is crucial. Most studies that evaluate seasonal forecasts focus on developed countries and/or overlook agriculture's economywide linkages. Yet forecasts may be more valuable in developing regions such as East Africa where climate is variable and agriculture has macroeconomic importance. We use computable general equilibrium and process-based crop models to estimate the potential economywide value of national seasonal forecast systems in Kenya, Malawi, Mozambique, Tanzania, and Zambia. Stochastic seasonal simulations produce value distributions for forecasts of varying accuracy and varying levels of farm coverage. A timely and accurate forecast adopted by all farmers generates average regional income gains of US \$113 million per year. Gains are much higher during extreme climate events and are generally pro-poor. The forecast value falls when forecast skill and farm coverage decline. National economic and trading structures, including the importance of agricultural exports, are found to be major determinants of forecast value. Economywide approaches are therefore needed to complement farm-level analysis when evaluating forecast systems in low-income agrarian economies.

Environment, Ethics, and Behavior Max H. Bazerman, 1997. In this collection of essays, leading social cognitive and decision psychologists offer psychological theory and contemporary environmental and ethical issues.

Coping with Climate Variability Karen O'Brien, Colleen Vogel, 2017-11-22. This title was first published in 2003. Recent food shortages in Southern Africa, induced by rainfall variability but compounded by problems of governance and rising food prices, have resulted in massive relief efforts. A recent scientific innovation—supplying farmers with seasonal climate forecasts—has been touted as a way to increase preparedness for such situations. This book examines how climate forecasts are used by the agricultural community in Southern Africa. Based on a workshop funded by the World Bank, it covers a broad set of issues related to the use of seasonal forecasts, including factors that constrain users' capacities to respond. Case studies presented in the book explore how forecasts can potentially increase production and food security among a population highly dependent on agriculture and vulnerable to climate variability. The book reflects on how the production, delivery, and uptake of seasonal forecasts might be improved, as well as the limitations to their usefulness, and it should catalyze future thinking and research in this field.

Forecasting David Hendry, Jennifer Castle, Michael Clements, 2019-06-11. Concise, engaging, and highly intuitive, this accessible guide equips you with an understanding of all the basic principles of forecasting. Making accurate predictions about the economy has always been difficult, as F. A. Hayek noted when accepting his Nobel Prize in economics, but today forecasters have to contend with increasing complexity and unpredictable feedback loops. In this accessible and engaging guide, David Hendry, Michael Clements, and Jennifer Castle provide a concise and highly intuitive overview of the process and problems of forecasting. They explain forecasting concepts, including how to evaluate forecasts, how to respond to forecast failures, and the challenges of

forecasting accurately in a rapidly changing world Topics covered include What is a forecast How are forecasts judged And how can forecast failure be avoided Concepts are illustrated using real world examples including financial crises the uncertainty of Brexit and the Federal Reserve s record on forecasting This is an ideal introduction for university students studying forecasting practitioners new to the field and for general readers interested in how economists forecast *Monthly Weather Review* ,1910 *Meteorology at the Millennium* Robert P. Pearce,2005-02-22 Meteorology at the Millennium details recent advances in meteorology and explores its interfaces with science technology and society Ways in which modern meteorology is contributing to the developments in other sciences are described as well as how atmospheric scientists are learning from colleagues in related disciplines Meteorology at the Millennium will serve as a point of reference for students and researchers of meteorology and climatology for many years to come The areas covered include weather prediction at the millennium climate variability and change atmosphere ocean coupling the biogeochemical system weather on other planets This book is a compilation of the best invited papers presented at a conference celebrating the 150 years of the Royal Meteorological Society RMS **Bulletin** ,2008 **R&D and Economy in Korea** Junmo Kim,2005 Technology has been thought and discussed as one of the pivotal sources of economic growth As the importance of technology and R D as its embodied form being increased of its importance a critical concern has been given on how to organize technology development The concern is not confined to developing countries but also extends to advanced nations due to a trait of knowledge intensive economies which require longer and more complex linkages from knowledge to the actual production of goods and services This book covers the issue of organizing technology development with multinational cases ranging from Korea Japan to United States and other countries with universally applicable theories that provide possibilities for application in other countries The other peculiarity of this book is that it presents not only what has happened in its analysis but also tries to describe possible future trends Changing contexts of capitalism has increased necessity to organize technology development even for advanced nations as long as they are regarded as knowledge intensive economies Against the dynamic of longer more complex linkages from knowledge to production the answer from the economy society was to increase R D to ride the dynamic of intensified technology requirements *Adaptation and Resilience* Bonnie G. Colby,George B. Frisvold,2012-06-25 In America s arid southwest climate change will occur in the context of already keen competition for water for agriculture urban growth electricity generation water based recreation and environmental protections This book explores the challenges that climate change and variability pose for water and energy managers and users communities and policy makers in the arid Southwest and demonstrates the application of economic methods to address these challenges It provides valuable tools for both those interested in resource management and climate change and those seeking to understand how economic methods can be used to analyze contemporary social problems and craft appropriate responses The book considers both adaptation to long term climate change and more immediate issues of water and electricity

management in the face of inter annual climate variability and drought Thus no matter what one s perspective on long run climate change projections the book provides useful lessons for some of the region s most pressing resource management problems **Evaluating Econometric Forecasts of Economic and Financial Variables** M. Clements,2005-01-21

Financial econometrics is one of the greatest on going success stories of recent decades as it has become one of the most active areas of research in econometrics In this book Michael Clements presents a clear and logical explanation of the key concepts and ideas of forecasts of economic and financial variables He shows that forecasts of the single most likely outcome of an economic and financial variable are of limited value Forecasts that provide more information on the expected likely ranges of outcomes are more relevant This book provides a comprehensive treatment of the evaluation of different types of forecasts and draws out the parallels between the different approaches It describes the methods of evaluating these more complex forecasts which provide a fuller description of the range of possible future outcomes Economic and Societal

Impacts of Tornadoes Kevin Simmons,Daniel Sutter,2013-01-22 For almost a decade economists Kevin M Simmons and Daniel Sutter have been studying the economic effects and social consequences of the approximately 1 200 tornadoes that touch down across the United States annually During this time they have compiled information from sources such as NOAA and the U S Census Bureau to examine the casualties caused by tornadoes and to evaluate the National Weather Service NWS s efforts to reduce these casualties Their unique database has enabled this fascinating and game changing study for meteorologists social scientists emergency managers and everyone studying severe weather policy disaster management or applied economics *Forecast Verification* Ian T. Jolliffe,David B. Stephenson,2003-08-01 This handy reference introduces

the subject of forecast verification and provides a review of the basic concepts discussing different types of data that may be forecast Each chapter covers a different type of predicted quantity predictand then looks at some of the relationships between economic value and skill scores before moving on to review the key concepts and summarise aspects of forecast verification that receive the most attention in other disciplines The book concludes with a discussion on the most important topics in the field that are the subject of current research or that would benefit from future research An easy to read guide of current techniques with real life case studies An up to date and practical introduction to the different techniques and an examination of their strengths and weaknesses Practical advice given by some of the world s leading forecasting experts Case studies and illustrations of actual verification and its interpretation Comprehensive glossary and consistent statistical and mathematical definition of commonly used terms **Economic and Social Benefits of Meteorological and**

Hydrological Services World Meteorological Organization,1990 New Trends in Civil Aviation Vladimir Socha,Lenka

Hanáková,Andrej Lališ,2018-06-27 The NTCA conference series is dedicated to publishing peer reviewed proceedings of the conference The goal is to disseminate state of the art scientific results available in the domain of civil aviation These proceedings contain a collection of scientific contributions to the NTCA 2017 conference which took place in Prague from 7 8

December 2017 and was hosted by the Department of Air Transport Czech Technical University in Prague with the cooperation of the Faculty of Aeronautics Technical University of Košice Institute of Aerospace Engineering Brno University of Technology Air Transport Department University of Ilina and the Czech Aerospace Society The NTCA conference aims to build and extend a platform for interaction between communities interested in aviation problems and applications NTCA 2017 followed this established practice and provided room for discussing and sharing views on the current issues in the field of aviation As a result these proceedings include contributions on air transport operations air traffic management and economic aspects aviation safety and security aircraft technologies unmanned aerial systems human factors and ergonomics in aviation

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