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Methods to Analyse Agricultural Commodity Price Volatility

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Ramesh Chandra Das

Methods To Analyse Agricultural Commodity Price Volatility:

Methods to Analyse Agricultural Commodity Price Volatility Isabelle Piot-Lepetit, Robert M'Barek, 2011-06-10 This book examines the issue of price volatility in agricultural commodities markets and how this phenomenon has evolved in recent years. The factors underlying the price spike of 2007-08 appear to be global and macroeconomic in nature, including the rapid growth in demand by developing countries, the international financial crisis, and exchange rate movements. Some of these factors are new, appearing as influences on price volatility only in the last decade. Although volatility has always been a feature of agricultural commodity markets, the evidence suggests that volatility has increased in certain commodity markets. A growing problem is that agricultural price shocks and volatility disrupt agricultural markets, economic incentives, and incomes. With increased globalization and integration of financial and energy markets with agricultural commodity markets, the relationships between markets are expanding and becoming more complex. When a crisis such as a regional drought, food safety scare, or a financial crisis hits a particular market, policy makers often do not know the extent to which it will impact on other markets and affect producer, consumer, and trader decisions. Including contributions from experts at the World Bank, the Food and Agriculture Organization of the United Nations, the USDA, and the European Commission, the research developed throughout the chapters of this book is based on current methodologies that can be used to analyze price volatility and provide directions for understanding this volatility and the development of new agricultural policies. The book highlights the challenges facing policy makers in dealing with the changing nature of agricultural commodities markets and offers recommendations for anticipating price movements and managing their consequences. It will be a practical guide for both present and future policy makers in deciding on potential price stabilizing interventions and will also serve as a useful resource for researchers and students in agricultural economics.

Food Price Volatility and Its Implications for Food Security and Policy Matthias Kalkuhl, Joachim von Braun, Maximo Torero, 2016-04-12

This book provides fresh insights into concepts, methods, and new research findings on the causes of excessive food price volatility. It also discusses the implications for food security and policy responses to mitigate excessive volatility. The approaches applied by the contributors range from on-the-ground surveys to panel econometrics and innovative high-frequency time series analysis, as well as computational economics methods. It offers policy analysts and decision makers guidance on dealing with extreme volatility.

Agricultural Commodity Price Volatility, 2011

The Handbook of Global Agricultural Markets L. Nijs, 2014-06-23 This book is a one-stop reference for practitioners and academics in finance, business, and economics, providing a holistic reference to the international agriculture business. It takes a multidisciplinary approach, looking at the issues, opportunities, and investable themes in the global agricultural space, combining research and practical tools.

Sustainable Agricultural Practices Ramesh Chandra Das, 2024-11-28

This comprehensive collection presents a comprehensive exploration of contemporary challenges and innovative solutions in agriculture.

Commodity Market Review Food and Agriculture Organization (FAO), 2010-07-15

This biennial publication analyses important agricultural commodity market developments likely to have significant implications for FAO member countries both developed and developing. It is devoted to exploring a variety of issues relevant to the recent price surge. It focuses on a number of key topics that feature highly in discussions among analysts and policy makers and discusses a number of policy options both international and domestic. Safeguarding Food Security in Volatile Global Markets Adam Prakash, 2011. A timely publication as world leaders deliberate the causes of the latest bouts of food price volatility and search for solutions that address the recent velocity of financial economic political demographic and climatic change. As a collection compiled from a diverse group of economists analysts traders institutions and policy formulators comprising multiple methodologies and viewpoints the book exposes the impact of volatility on global food security with particular focus on the world's most vulnerable. *Macroeconomic Determinants of the Coffee Price Volatility in Ethiopia. Application of the Garch-Midas Model* Tekle Bobo, Tesfaye Abera, Jema Haji, 2020-10-20. Master's Thesis from the year 2020 in the subject Economics Statistics and Methods grade 24. Haramaya University language English abstract. Application of GARCH type model is a key for modeling and forecasting volatility for high frequency data such as daily commodity price. Following the same framework the objective of the present study is to apply the multiplicative GARCH MIDAS model for daily exported coffee price as proxy of daily total coffee price of Ethiopia over the period of 1/1/2008 to 7/17/2018 with the purpose of fitting and forecasting coffee price returns volatility. The GARCH MIDAS model decomposes the conditional variance as short term component of GARCH 1/1 process and long term component with monthly frequencies of macroeconomic variables. In this study exchange rate nominal exchange rate inflation rate general inflation interest rate lending interest rate fuel oil price price of imported petroleum and petroleum production total consumption and money supply broad money macroeconomic variables were employed through MIDAS specification using beta weighting scheme to analyze impact of the variables on the long term volatility component. For fitted ARMA 1/1 of coffee price return ARCH effect test on the residual from the mean model revealed the existence of time varying conditional variance for the selected mean model. A conditional variance model GARCH 1/1 was selected and used to model the conditional variance of coffee price return with Quasi Maximum Likelihood along with Bayesian estimation methods and both estimation procedures indicated the persistence of conditional variance observed even for small sample under Bayesian estimation framework. Asymmetry test show the insignificance of the asymmetric term while Lundbergh and Terasvirta Lagrange Multiplier and the Li Mak portmanteau test for the residual of GARCH model show the existence of time varying unconditional variance and made call for GARCH MIDAS model. From the result of estimated GARCH MIDAS model exchange rate and inflation rate were found to be the best drivers of coffee price volatility in Ethiopia and used for in and out of sample forecast. Finally the Mean Absolute Error Root Mean Square Error and Diebold Mariano test were used for evaluating and comparing the forecasting ability of GARCH MIDAS component model against standard GARCH 1/1 model which indicated that including exchange rate and

inflation rate make efficient forecasting of coffee price volatility in Ethiopia *Agricultural Marketing* James Vercammen,2012-01-11 The price of food has become very volatile in recent years for a variety of reasons including a strengthened connection between the prices of agricultural commodities and other commodities such as oil and metals more volatile production due to more frequent droughts and floods and a rising demand for biofuels Understanding the determinants of agricultural commodity prices and the connections between prices has become a high priority for academics and applied economists who are interested in agricultural marketing and trade policy analysis and international rural development This book builds on the various theories of commodity price relationships in competitive markets over space time and form It also builds on the various theories of commodity price relationships in markets that are non competitive because processing firms exploit market power private information distorts commodity bidding and bargaining is required to establish prices when the marketing transaction involves a single seller and buyer Each chapter features a spreadsheet model to analyze a particular real world case study or plausible scenario and issues considered include the reasons for commodity price differences across regions the connection between the release of information and the rapid adjustment in a network of commodity prices the specific linkage between energy and food prices bidding strategies by large exporters who compete in import tenders The simulation results that are obtained from the spreadsheet models reveal many important features of commodity prices The models are also well suited for additional what if analysis such as examining how the pattern of trade in agricultural commodities may change if shipping becomes more expensive because of substantial increase in the world price of oil Model building and the analysis of the simulation results is a highly effective way to develop critical thinking skills and to view agricultural commodity prices in a rigorous and unique way This is an ideal resource for economics students looking to gain develop skills in the areas of Agricultural Marketing Commodity Price Analysis Models of Commodity Markets Quantitative Methods and Commodity Futures Markets *Agricultural Markets Instability* Alberto Garrido,Bernhard Brümmer,Robert M'Barek,Miranda Meuwissen,Cristian Morales-Opazo,2016-01-08 Since the financial and food price crises of 2007 market instability has been a topic of major concern to agricultural economists and policy professionals This volume provides an overview of the key issues surrounding food prices volatility focusing primarily on drivers long term implications of volatility and its impacts on food chains and consumers The book explores which factors and drivers are volatility increasing and which others are price level increasing and whether these two distinctive effects can be identified and measured It considers the extent to which increasing instability affects agents in the value chain as well as the actual impacts on the most vulnerable households in the EU and in selected developing countries It also analyses which policies are more effective to avert and mitigate the effects of instability Developed from the work of the European based ULYSSES project the book synthesises the most recent literature on the topic and presents the views of practitioners businesses NGOs and farmers organizations It draws policy responses and recommendations for policy makers at both

European and on international levels **The Economics of Food Price Volatility** Jean-Paul Chavas, David Hummels, Brian D. Wright, 2014-10-17 There has been an increase in food price instability in recent years with varied consequences for farmers market participants and consumers Before policy makers can design schemes to reduce food price uncertainty or ameliorate its effects they must first understand the factors that have contributed to recent price instability Does it arise primarily from technological or weather related supply shocks or from changes in demand like those induced by the growing use of biofuel Does financial speculation affect food price volatility The researchers who contributed to *The Economics of Food Price Volatility* address these and other questions They examine the forces driving both recent and historical patterns in food price volatility as well as the effects of various public policies in affecting this volatility The chapters include studies of the links between food and energy markets the impact of biofuel policy on the level and variability of food prices and the effects of weather related disruptions in supply The findings shed light on the way price volatility affects the welfare of farmers traders and consumers *Applied Commodity Price Analysis, Forecasting, and Market Risk Management* , 1985

An Overview of Major Sources of Data and Analyses Relating to Physical Fundamentals in International Commodity Markets Pilar Fajarnes, 2011 *Journal of Agricultural and Applied Economics* , 2006 *The Indian Journal of Agricultural Economics* , 2007 Vols include Proceedings of the conference of the Indian Society of Agricultural Economics **The**

Functioning of the Food Supply Chain and Its Effect on Food Prices in the European Union Lina Bukeviciute, Adriaan Dierx, Fabienne Ilzkovitz, 2009 The sharp fluctuations in food price inflation at a time of great uncertainty about the economic outlook have raised questions about the functioning of the European food supply chain While the observed changes in food prices in EU Member States can be linked to developments in the global demand and supply for agricultural commodities inefficiencies in the functioning of the food supply chain in terms of competition and regulation may have played an important role as well In particular an analysis of the transmission mechanisms linking agricultural commodity prices with producer and consumer prices shows that the shock caused by the upsurge in agricultural commodities and energy prices in the second half of 2007 and the first half of 2008 was absorbed differently across EU Member States Crosscountry differences in the regulatory framework appear to have contributed to this fragmentation of the European Single Market Moreover there are indications of differences in the conditions of competition across Member States Finally consolidation is taking place throughout the food supply chain While such consolidation can lead to efficiency gains it may also worsen the conditions of competition to the detriment of consumers and businesses Keywords Food regulation market structure competition pricing provided by publisher *Applied Commodity Price Analysis, Forecasting, and Market Risk Management* NCR-134 (Committee : U.S.) Conference, 1991 *Agricultural Prices and Commodity Market Analysis* John N. Ferris, 1998 This book emphasizes market and price analysis using agricultural examples The focus of the book is on the application of econometrics and will help those going into fields involving market analysis and forecasting The blend of theory and

application is unique **AG Review ,1976 The Financial and Economic Crisis of 2008-2009 and Developing Countries** United Nations Conference on Trade and Development,2010 As a response to the global financial and economic crisis that began in 2008 many developing and emerging market economies undertook resolute countercyclical monetary and fiscal actions which paralleled those of the developed countries These policy responses contributed significantly to the recovery of the world economy in 2010 and 2011 In particular the strong and fast responses of Brazil China and India helped mitigate deflationary risks and avoid a repetition of the Great Depression of the early 1930s On the other hand reforms of financial regulation and supervision are taking time to advance and little progress has been achieved so far in implementing measures to reduce global imbalances and to avoid a malfunctioning of the international exchange rate system These would contribute to greater coherence between the international trading and financial systems and to creating a more stable international economic environment for development This is a collection of papers that contribute to the debate on these topics putting the South at centre stage It examines how the countries of the South were affected by the global economic and financial crisis and how they responded to it

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