

Center for Global Trade Analysis Newsletter

Climate Volatility Deepens Poverty Vulnerability in Developing Countries



Ahmed



Diffenbaugh



Hertel

Syud A. Ahmed, Noah S. Diffenbaugh and Thomas W. Hertel

Extreme climate events could influence poverty by affecting agricultural productivity and raising prices of staple foods that are important to poor households in developing countries. With the frequency and intensity of extreme climate events predicted to change in the future, informed policy design and analysis requires an understanding of which countries and groups are going to be most vulnerable to increasing poverty. Using a novel economic-climate analysis framework, we assess the poverty impacts of climate volatility for seven socio-economic groups in 16 developing countries. We find that extremes under present climate volatility increase poverty across our developing country sample - particularly in Bangladesh, Mexico, Indonesia, and Africa -with urban wage-earners the most vulnerable group. We also find that global warming exacerbates poverty vulnerability in many nations. To read more on this topic, please visit: <http://www.purdue.edu/uns/x/2009b/090820DiffenbaughHertel.html#>.

James and Lois Ackerman Professor of Agricultural Economics

The Purdue University Board of Trustees voted unanimously to name Wallace Tyner the James and Lois Ackerman Professor of Agricultural Economics.

This is a well-deserved honor recognizing Wally's broad contribution to Purdue's Department of Agricultural Economics as well as his devotion to the full-breadth of the Land Grant ideal.

Wally serves as the Senior Policy Advisor for the Center for Global Trade Analysis.

Congratulations, Wally, on this honor!



Tyner



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Visitor to Center assisting with GTAP 8 Data Base

Nico van Leeuwen, a Data Analyst at the Netherlands Bureau for Economic Policy Analysis, is visiting the Center for Global Trade Analysis to help improve the commodity tax data for the GTAP 8 Data Base.

Nico has been a very active member of the GTAP Network since 1995 when he attended the first European Short Course. Since then, he has made significant contributions to the GTAP Data Base, for which, he was named a GTAP Research Fellow in 2007.

We look forward to working with Nico over the next few months.



Van Leeuwen

GTAP Live Forum: GTAP Africa Data Base



As an outcome of a project funded by Bank Netherlands Partnership Program (BNPP) via the World Bank and the European Commission, the GTAP Africa Data Base was released to the public, free of cost, in December 2008. It includes data for 39 regions (30 African regions and 9 other aggregated regions) and the 57 sectors of the GTAP 6 Data Base.

On November 11, 2009 from 10:00-11:30am (GMT-5:00), the Center for Global Trade Analysis will hold an online forum about the GTAP Africa Data Base. GTAP Live Forums are free of charge and are conducted online via Adobe Connect; however, registration is limited to 30 participants on a first-come, first-serve basis. Anyone interested in learning more about the GTAP Africa Data Base is welcome to participate in this event.

For further information on the GTAP Africa Data Base, please visit: www.gtap.agecon.purdue.edu/databases/Africa/.

For further information on the GTAP Live Forum on the GTAP Africa Data Base, please visit: www.gtap.agecon.purdue.edu/events/Forums/GTAPAfricaDB_111109/.

GTAP Annual Events

The Center for Global Trade Analysis will hold the following events in 2010.

Thirteenth Annual Conference on Global Economic Analysis *"Sustainable and Inclusive Trade for Growth and Development"*

The Thirteenth Annual Conference on Global Economic Analysis will be held from June 9-11, 2010 and be hosted by the United Nations Economic and Social Commission for Asia and the Pacific in Bangkok, Thailand.

Abstracts, organized session and roundtable discussion session proposals will be accepted from November 2, 2009 through January 15, 2010.

Registrations will be accepted January 4 - April 30, 2010.

For further information on this event, please visit: www.gtap.agecon.purdue.edu/events/conferences/2010/.



United Nations Conference Centre
Bangkok, Thailand

Eighteenth Annual Short Course in Global Trade Analysis *"Introduction to Applied General Equilibrium Analysis in a Multi-Region Framework"*

The Eighteenth Annual Short Course in Global Trade Analysis will be held from August 7-13, 2010 on the campus of Purdue University in West Lafayette, Indiana, United States.

Applications for this course will be accepted from November 2, 2009 through February 21, 2010. Individuals accepted into the course will receive notification in mid March.

Previous courses have been over-booked; therefore, we encourage early application.

For further information on this event, please visit: www.gtap.agecon.purdue.edu/events/Short_Courses/2010/.



Purdue University
West Lafayette, USA

GTAP Network Research Highlights

GTAP Resource Center

The following have been added to the GTAP Technical, Working, and/or Research Memoranda Series since the last newsletter.

GTAP Working Paper No. 55

“Global Land Use and Greenhouse Gas Emissions Impacts of U.S. Maize Ethanol: The Role of Market-Mediated Responses”

by Hertel, Thomas, Alla Golub, Andrew Jones, Michael O'Hare, Richard Plevin and Daniel Kammen

GTAP Working Paper No. 56

“Disaggregated Data and Trade Policy Analysis: The Value of Linking Partial and General Equilibrium Models”

by Narayanan, Badri, Thomas Hertel and Mark Horridge

GTAP Working Paper No. 57

“Predicting Expenditure Patterns across the Income Spectrum using International Cross-Section Estimates”

by Verma, Monika, Thomas Hertel and Paul Preckel

For further information or to search the GTAP Resource Center, please visit: www.gtap.agecon.purdue.edu/resources/.



Valenzuela



Anderson

Distortions to Agricultural Incentives

This World Bank project covers 75 countries from 1955 to 2007 and is available at www.worldbank.org/agdistortions. The database provides policy intervention indicators in agriculture, with coverage of more than 70% of the world agricultural value. The documentation and resources for implementation into the GTAP 7 Data Base are available on the GTAP website as GTAP Research Memorandum No. 13, “**Alternative Agricultural Price Distortions for CGE Analysis of Developing Countries, 2004 and 1980-84**” by Valenzuela, Ernesto and Kym Anderson.

GTAP Advisory Board Updates



Rose



Horridge

The Center for Global Trade Analysis would like to welcome the following as new members to the GTAP Advisory Board.

Steve Rose, a senior economist in the Global Climate Change Research Group, will represent the Electric Power Research Institute (EPRI) on the GTAP Advisory Board.

Steve has been involved in GTAP-related research on climate change mitigation and land use for a number of years and will be able to provide key direction in this area.

Mark Horridge, Professor and Director of GEMPACK software at the Centre of Policy Studies at Monash University, will serve as a member at large on the GTAP Advisory Board.

Mark has been an important advocate of GTAP since its inception. The list of contributions he has made to the network is remarkable and he will be able to provide great insight into many areas of interest.

We look forward to working with EPRI and Mark on the GTAP Advisory Board!

Center News

The Center for Global Trade Analysis staff and graduate students have been very busy presenting and publishing the following:

Presentations

Villoria, Nelson. "China's growth, world food prices, and developing countries' exports" at the ETSG Eleventh Annual Conference in Rome, 10-12 September 2009.

Golub, Alla. "Global Land Use and Greenhouse Gas Emissions Impacts of U.S. Corn Ethanol: The Role of Market-Mediated Responses", seminars presented at Massey University and Ohio State University. Based on work with Thomas Hertel, Andrew Jones, Michael O'Hare, Richard Plevin and Daniel Kammen.

Hertel, Thomas W. "Climate Volatility and Poverty Vulnerability", presented the Inter-American Development Bank, Washington, DC, September 15, 2009.

Hertel, Thomas W. "Analysis of Global Land Use Impacts of Corn Ethanol: Future Research Needs", presented to the USDA-USDOE Technical Advisory Committee on Biofuels, Washington, DC, September 15, 2009.

Hertel, Thomas W. "Key Issues in Analyzing the Global Poverty Impacts of Biofuel Mandates", presented in a Mini-Symposium on Biofuels and the Poor, IAAE meetings, Beijing, August 18, 2009.

Hertel, Thomas W. and Farzad Taheripour. "Analyzing the Poverty Impacts of Biofuel Mandates", presented in an Invited Panel Session on Biofuels, IAAE meetings, Beijing, August 21, 2009.

Hertel, T.W. "Alan Deardorff's Contributions to Computational Analysis of International Trade", presented at the Alan Deardorff Festschrift, Ann Arbor, October 2, 2009.

Walmsley, Terrie L. "The Global Trade Analysis Project", United Nations Economic and Social Commission for Asia and the Pacific (UN ESCAP), Bangkok, Thailand, August 13, 2009.

Walmsley, Terrie L. "The Dynamic GTAP Model and Current Research", Australian Bureau of Agricultural and Research Economics, Canberra, Australia, May 22, 2009.

Walmsley, Terrie L. "The Dynamic GTAP Model," Monash University, Melbourne, Australia, May, 2009.

Badri Narayanan gave a seminar on "Impacts of tariff liberalization on Indian auto industry: A Partial-General Equilibrium analysis" at Madras School of Economics, Chennai, India on 18th September, 2009.

Publications

Villoria, Nelson, Thomas Hertel and Alejandro Nin Pratt. "China's Growth and the Agricultural Exports of Southern Africa", IFPRI Discussion Paper No. 00891, 2009.

Ahmed, A., N. Diffenbaugh and T. Hertel, (2009) "Climate Volatility Deepens Poverty Vulnerability in Developing Countries", Environmental Research Letters (4) doi:10.1088/1748-9326/4/3/034004

Golub, A., Hertel, T. W., H. Lee, S. Rose and B. Sohngen, (2009). "The Opportunity Cost of Land Use and the Global Potential for Greenhouse Gas Mitigation in Agriculture and Forestry", Resource and Energy Economics, 31 (4):299-319.

Keeney, R. and T.W. Hertel (2009). "The Indirect Land Use Impacts of United States Biofuel Policies: The Importance of Acreage, Yield, and Bilateral Trade Responses", American Journal of Agricultural Economics 91(4):895-909.

Hertel, T. W., R. Keeney, M. Ivanic, and L. A. Winters, 2009. "Why isn't the Doha Development Agenda more Poverty Friendly?", Review of Development Economics 13(4):543-559.



Villoria



Golub



Hertel



Walmsley



Narayanan