

Center for Global Trade Analysis Newsletter

GTAP 8 Data Base

The GTAP 8 Data Base contains complete bilateral trade information, transport and protection linkages among 128 regions for all 57 GTAP commodities for the years 2004 and 2007.

Notable Features and Additions

- Dual reference years: 2004 and 2007
- Additional regional disaggregation: 128 regions and 57 sectors
 - Newly added regions:
Bahrain, Cote d'Ivoire, El Salvador, Ghana, Honduras, Israel, Kenya, Kuwait, Mongolia, Namibia, Nepal, Oman, Qatar, Saudi Arabia and United Arab Emirates
 - Updated/Improved regions:
Australia, Bolivia, Brazil, China, Ethiopia, India, Malaysia, Mexico, Norway, Philippines, Switzerland, Thailand, Uganda, Venezuela and Zimbabwe
- New macro-economic data for 2004 and 2007
- New trade data for 2004 and 2007
- New protection data for 2007
- Improved bilateral services trade data for 2004 and 2007
- Improved energy data for 2004 and 2007
- Revised OECD domestic support for 2004 and 2007
- New export subsidies data for 2007
- Revised treatment of taxes in the agricultural and energy sectors
- Additional information on contributed I-O tables
- Decomposition of tariff components into specific, ad valorem and TRQs
- Decomposition of subsidy payments into decoupled and non-decoupled payments



Sales to begin in 2012

GTAP Events

MARK YOUR CALENDAR!

15th Annual Conference on Global Economic Analysis

"New Challenges for Global Trade and Sustainable Development"

June 27-29, 2012 | Geneva, Switzerland

2012 Short Course in Dynamic Global Trade Analysis

"Dynamic Modeling and Applications in Global Economic Analysis"

July 20-25, 2012 | Frederiksberg, Denmark

20th Annual Short Course in Global Trade Analysis

"Introduction to Applied General Equilibrium Analysis in a Multi-Region Framework"

August 19-25, 2012 | Arlington, Virginia, USA

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GTAP Awards

2011 GTAP Research Fellow Hall of Fame Inductee

In 2007, the GTAP Advisory Board selected five outstanding individuals to be inducted into the GTAP Research Fellow Hall of Fame for their significant and continuous contributions to the GTAP Data Base, models, research and network.



This year, **Dominique van der Mensbrugghe** was inducted into to this prestigious group in recognition of his sustained contributions to the GTAP Data Base and for advancing economy-wide analysis of developing country policies with the Linkage model.

2011 Alan A. Powell Award Recipient

In recognition of his outstanding contributions to the establishment and early development of GTAP, the Center for Global Trade Analysis established the Alan A. Powell Award in 1995. Each year, this award is presented to recognize the outstanding service of a representative currently serving on the GTAP Advisory Board.



This year's Alan A. Powell Award recipient was **Hsin Huang**, who embodies the spirit of GTAP through his support of the GTAP Data Base and improved agricultural policy analysis. Hsin has been a member of the GTAP Network since attending the short course in 2003. In 2004, he was selected as a GTAP Research Fellow for his important contributions to the agricultural support database used in the GTAP Data Base. He continues to supervise the process of generating the agriculture Producer Support Estimate (PSE) database for OECD member countries. In 2009, he oversaw updates to the classification that permitted better representation of policy developments, as support payments were increasingly based on criteria other than commodity specific production. Due to the importance of agricultural support in policy analysis, this aspect of the GTAP Data Base is often the first to be scrutinized by the advisory board and network members, particularly in Europe and North America. Huang continues to work closely with GTAP staff to ensure that these data accurately reflect what is known about agricultural support. Hsin is the GTAP Advisory Board representative for the OECD and is currently working on climate change analysis in the OECD's Trade and Agriculture Directorate. His research is mainly focused on the role of agricultural policies in facilitating (or impeding) the mitigation of GHGs from agriculture, and in adaptation of agriculture to climate change.

2011-2014 GTAP Research Fellow Recipients

The GTAP Research Fellow distinction is awarded to individuals in recognition of significant input to the development of the GTAP Data Base, models, research and network. This year, the following individuals were awarded this distinction.



Houssein Guimbard - For being a member of the CEPII-ITC team that developed the MacMAPHS6 dataset to contribute tariff data for the GTAP 7 and 8 Data Bases as well as preparing multi-sector, multi-country FDI data.



Nico van Leeuwen - In recognition of his various contributions to the GTAP Data Base including his work on bilateral services trade data and review of recent work on the labor skill splits and taxes.



Zhi Wang - In recognition of his recent work on Multi-region I-O data, and for his assistance with reconciling re-export trade data and the Chinese and Hong Kong I-O tables.



Xavier Pichot - For his sustained contributions to the protection dataset for the GTAP Data Base.

GTAP Resources

“Where on Earth is Everybody?”



This research brings together over 1,000 national censuses and population registers for 226 countries to produce a new time series database on global migration (available online at: <http://data.worldbank.org/data-catalog/global-bilateral-migration-database>). For additional background information, visit <http://www.voxeu.org/index.php?q=node%2F6833>. This database has been used to update the GMig2 database to the GTAP 7.1 Data Base. Özden, Caglar, Christopher Parsons, Maurice Schiff, and Terrie Walmsley (2011), “Where on Earth is Everybody? The Evolution of Global Bilateral Migration 1960-2000”, *The World Bank Economic Review*, No. 5709.

New Additions to the GTAP Satellite Data and Utilities Package

The Center for Global Trade Analysis is pleased to announce the following additions to the GTAP Satellite Data and Utilities package. In order to be eligible to purchase a satellite data and utilities subscription, the subscriber must be the licensee of the GTAP 7 Data Base. For further information on this package including composition, pricing and ordering, please visit: www.gtap.agecon.purdue.edu/databases/Utilities/.



GDyn 7.1 Data Base

- Program for producing data for the GDyn Model

GMig2 Data Base: FlexAgg 7.1 package

- Program for producing data for the GMig2 Model

GTAP 7 Hummels Time Costs in Trade

GTAP 7 Land Use Data Base

GTAP 7 Non-CO2 Emissions Dataset

GMig2 Data Base: FlexAgg 6 package

GDyn 7 Data Base

Baseline Data and Utilities

With increasing use of Dynamic CGE models to examine trade and environmental policy issues, the development of a good baseline scenario has become of paramount importance to many CGE modelers. The recent global financial crisis and ensuing economic crisis has also accelerated the shift in the share of global economic output accounted for by emerging countries, reinforcing the need to keep baselines up-to-date with the most recent projections.

In order to help other researchers in the construction of their own baselines, a baseline section on the GTAP website was created. It includes a list of potential sources of macroeconomic and sectoral forecasts as well as GEMPACK programs to aggregate projections. GTAP users can also upload their own data and baseline documentations.

It is the Center's hope this baseline section will evolve with the most up-to-date data and models baseline documentations contributed by GTAP users. Building baseline scenarios is a particularly hard task, especially in these times of great uncertainty. The Center's view is that sharing data and expertise will lead to more defensible baseline scenarios and better policy analysis.

For further information, please visit www.gtap.agecon.purdue.edu/models/Dynamic/Baseline/.

GTAP Resource Center

The GTAP Resource Center is a repository of GTAP-related publications, applications using the GTAP Model and/or data bases, and documentation.

For further information or to search resource listings, please visit www.gtap.agecon.purdue.edu/resources/.

Center for Global Trade Analysis Activity

Badri Narayanan Gopalakrishnan presented a paper (co-author: Terrie Walmsley) on "The Role of Labor Standards in International Trade: A CGE Approach" at the Indira Gandhi Institute of Development Research in Mumbai, India.

Thomas Hertel served as President of the Agricultural & Applied Economics Association. In this capacity he delivered his presidential address on the topic of "Global Supply and Demand for Land in 2050: A Perfect Storm?" and in a variety of venues, including: the Presidential Address to the AAEA meetings in Denver, the Distinguished Fellows Address at the meetings of the Australian Agricultural and Resource Economics Society, The World Bank, and a university-wide lecture at Cornell University. In addition, Professor Hertel organized the kick-off workshop for a two-year pilot project entitled GEOSHARE: Geospatial Open Source Hosting of Agriculture, Resource and Environmental Data. This workshop, hosted by Purdue University, included 70 participants from universities, international institutions, US government agencies and private sector representatives from around the world. Finally, he presented a plenary address on "Climate Change, Agriculture and Poverty" at the annual meetings of the International Agricultural Research Consortium, held on the campus of the University of Hohenheim in Germany. During the 2011/12 year, Hertel is on sabbatical at Stanford University in Palo Alto, California USA where he will be working on several projects related to climate impacts on agriculture, as well as the effects of climate mitigation policies. He will also be co-teaching a seminar for graduate students and faculty on long run determinants of global land use.

Abbot, Phillip C., Christopher Hurt and **Wallace E. Tyner**, "What's Driving Food Prices in 2011?" Farm Foundation Issue Report, July 2011.

Villoria, Nelson and Thomas Hertel (2011), "Geography Matters: International Trade Patterns and the Indirect Land Use Effects of Biofuels," American Journal of Agricultural Economics, 93(4), 919-935.

Strutt, Anna and **Terrie Walmsley**, "Implications of the Global Financial Crisis for China: A Dynamic CGE Analysis to 2020," *Economics Research International*, 2011, October, 9 pages.

The Center was well represented at the 2011 Agricultural & Applied Economics Association (AAEA) annual meeting. Posters: Global Land Use changes and consequent CO₂ Emissions due to U.S. Cellulosic Biofuel Program; **Wallace Tyner** and **Farzad Taheripour** | Bias and Scale Effects of Decoupled Farm Payments; Samiul Haque and **Roman Keeney** | Measuring the Impact of Immigration Reform on U.S. Agriculture; Amber Remble and **Roman Keeney**. Presentations: GHG Mitigation Policies in Livestock Sectors: Competitiveness, Emission Leakage, and Food Security; **Alla Golub, Thomas Hertel**, and Benjamin Henderson | Biophysical vs. Economic Uncertainty in the Analysis of Climate Change Impacts on World Agriculture; **Thomas Hertel, Monika Verma** and David Lobell | Keys to Successful Cross-institutional Research Collaboration; **Thomas Hertel** | The Role of Irrigation in Determining the Global Land Use Impacts of Biofuels; **Farzad Taheripour, Thomas Hertel** and **Jing Liu** | Cross-retaliation at the WTO: Impacts of a No Deal in the U.S.-Brazil Cotton Dispute; **Csilla Lakatos** | Does Tariff Escalation Affect the Export Shares: Evidence from the Global Trade of Cotton and Coffee?; **Badri Narayanan Gopalakrishnan** | Credibility of Trade Sanctions in Greenhouse Gas Mitigation Agreements in Agriculture and Forestry; **Zeynep Irfanoglu** and Juan Sesmero.

About GTAP



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The Global Trade Analysis Project is coordinated by the Center for Global Trade Analysis, which is housed in the Department of Agricultural Economics at Purdue University.

The Center for Global Trade Analysis' mission is to provide leadership in economic policy analysis through better data, fostering collaboration, and research.

Guidance and financial support for the project is provided by the GTAP Consortium, which consists of national and international agencies, with further support provided by sales of the GTAP Data Base.

If you are interested in learning more about GTAP and the Center for Global Trade Analysis, please visit: www.gtap.agecon.purdue.edu.

