

The GTAP Advisory Board Meeting, June 2005

Economic Research Service, United States Department of Agriculture GTAP related activities: 2004-2005

The Economic Research Service (ERS) of the U.S. Department of Agriculture has contributed to and utilized the products of the Global Trade Analysis Project since its inception. This provides a short summary of recent and forthcoming activities.

CONTRIBUTIONS TO GTAP PRODUCTS

Trade data. Mark Gehlhar provided a revision of the merchandise trade data for the version 6 database in September 2004. In this version he adopted the sector level totals for imports and exports (absent of re-exports) that were agreed upon by the Agricultural Economics Research Institute (LEI) and Netherlands Bureau for Economic Policy Analysis (CPB). Using these targets he constructed revised bilateral flows for imports and exports.

Concordances: In addition he adopted an updated version of the Central Product Classification and HS concordances provided by the U.N. Statistical Division. This is incorporated into the HS GTAP sector concordance. As a result certain HS categories in textiles (GSC 26) are moved to clothing and wearing apparel (GSC 27).

Export subsidy data. Aziz Elbehri, created a global export subsidy dataset for GTAP database; completed a new data set based export subsidy submissions; submitted the new data set to the GTAP Center in April 2003 (update to the first submission is pending). *Agricultural Export Subsidies*,” in Documentation for GTAP Database version 6. (Submitted March 2005).

PUBLICATIONS

1. Articles

Darwin, R.F. 2004. “Effects of Greenhouse Gas Emissions on World Agriculture, Food Consumption, and Economic Welfare.” *Climatic Change* 66(1/2):191-238.

Elbehri, A. and S. MacDonald, “Estimating the Impact of Transgenic Bt Cotton on West and Central Africa: A General Equilibrium Approach,” *World Development*, Vol. 32(2004), No. 12, pp 2049-2064.

Elbehri A. “Estimating the impact of MFA removal on global cotton and textile: A CGE quantitative assessment” (paper submitted to *World Trade Review*).

Burfisher, Mary E., Sherman Robinson and Karen Thierfelder (2004). “The FTAA and Agriculture in the Western Hemisphere,” Mary E. Burfisher, editor, (2004). U.S. Agriculture and

the FTAA. Economic Research Service, U.S. Department of Agriculture, Agricultural Economic Report.

Burfisher, Mary E., Kenneth Hanson, Jeffrey Hopkins, and Agapi Somwaru (forthcoming). *Agricultural Adjustment Capacity: A Macro Micro Simulation*, David Blandford and Barkeley Hill, ed. ,Agricultural Policy Adjustment in Wealthy Countries.

Burfisher, Mary, Sherman Robinson and Karen Thierfelder. "Trade and Welfare Effects of the FTAA," in *U.S. Agriculture and the Free Trade Area of the Americas*. AER-827, U.S. Department of Agriculture, Economic Research Service, March 2004.

Roe, T., A. Somwaru and X. Diao. "The Global Impact of Agricultural Liberalization and Links to Economic Growth," forthcoming (book chapter, House Academia publications).

Darwin, R.F., K. Ingram, and V. Breneman. 2005. A Global Land and Water Resources Database for Economic Models. U.S. Department of Agriculture, Economic Research Service, Washington, DC.

Darwin, R.F., J. Sullivan, and K. Ingram. 2005. Linking Land and Water Resources with World Economic Production. U.S. Department of Agriculture, Economic Research Service, Washington, DC.

Darwin, R.F. 2005. A Global Economic Database with Water and Heterogeneous Land Resources. U.S. Department of Agriculture, Economic Research Service, Washington, DC.

R.F. Darwin, 2004. "A fourth publication, Creating Global Economic Models with Water and Heterogeneous Land Resources," U.S. Department of Agriculture, Economic Research Service, Washington, DC. (documentation of a generic version of FARM2).

Gehlhar M., S. Shapouri, J. Wainio, 2004. "Agricultural Trade Preferences for Developing Countries: Are there still benefits from global market liberalization," forthcoming AIB report, U.S. Department of Agriculture, Economic Research Service, Washington, DC.

Regmi A. Gehlhar M., J. Wainio J. T. Vollrath, 2004. "Market Access for High Value Food Products," forthcoming AER, U.S. Department of Agriculture, Economic Research Service, Washington, DC.

Regmi, A., M. Gehlhar, J. Wainio, T. Vollrath and Nitin Kathuria Market Access for High-Value Foods, Agricultural Economic Report No. (AER840) 49 pp, February 2005

Gehlhar M. and E. Dohلمان (coordinators), Factors contributing to Changing U.S. Food and Agricultural Trade Balance. Forthcoming ERS Economics Report, 2005.

ERS-Purdue Cooperative Research Agreement for GTAP-AGR: Model and Documentation, Technical Documentation forthcoming 2005.

Gehlhar M. GTAP 6 Documentation chapters 8, 15b and 15c. Bilateral Time Series, Merchandise Trade Data, and Hong Kong and Netherlands Re-exports.

Gehlhar M. and T. Vollrath, (2004) ERS Bilateral Fiber and Textile Trade Database
<http://www.ers.usda.gov/data/fibertextiletrade/>

2. Unpublished Conference Presentations and Invited Speeches

Darwin, R.F. 2005. "Advances in Data for Global Change Research." Seminar at the Joint Global Change Research Institute, College Park, MD, March 29, 2005.

Darwin, R.F., J.P. Sullivan, K. Ingram, M. Imhoff, L. Bounoua, and V. Breneman. 2005. "Global Patterns in Human Harvests of Net Primary Production". Presented in a special session entitled The Human Ecological Footprint and Earth's Climate of the 2005 Joint Assembly Meeting sponsored by the American Geophysical Union, New Orleans, LA, May 23-27, 2005.

Aziz Elbehri and John Wainio, "Do Preferences Matter Under Trade Liberalization? The Case of the European Union Preferences for Developing Countries", paper selected, International Conference on Policy Modeling, Istanbul, Turkey, June 28-July 2, 2005.

Somwaru, A. E. Tsakiridou, and K. Mattas. "Multilateral or Regional Agreement: The Case of Mediterranean Countries," International Conference on Middle East and North African Economies, Brussels, June 2-4, 2005.

Burfisher, Mary E., Sherman Robinson, and Karen Thierfelder. "Modeling OECD Agricultural Programs For Trade Policy Analysis." Paper presented to the Empirical Trade Policy Conference on Strengthening Analytic Capabilities to Support Trade Negotiations, sponsored by the U.S. Department of Commerce with USDA Economic Research Service, Woodrow Wilson Center, Washington, DC, January 22-23, 2004.

Roe, T., A. Somwaru and X. Diao. "Agricultural Trade Barriers and the Role of Institutions in African Development," Paper prepared for the Empirical Trade Analysis Conference: Strengthening Analytical Capabilities to Support Trade Negotiations, Washington DC, January 22-23, 2004.

Ganesh Kumar, A., Manoj Panda, and Mary E. Burfisher. "Reforms in Indian Agro processing and Agriculture Sectors in the context of Unilateral and Multilateral Trade Agreements," selected paper presented to the 8th Annual Conference on Global Economic Analysis, Lübeck, Germany, June 9-11, 2005.

Roe, T., A. Somwaru and M. Shane. "The Rapid Expansion of the Modern Retail Food Marketing in Emerging Market Economies: Implications to Foreign Trade and Structural Change in Agriculture," selected paper presented to the 8th Annual Conference on Global Economic

Analysis, Lübeck, Germany, June 9-11, 2005.

Roe, T., A. Somwaru and X. Diao. "Decoupled Payments: A Dynamic, Economywide Perspective," paper presented to the 8th Annual Conference on Global Economic Analysis, Lübeck, Germany, June 9-11, 2005.