

## **International Food Policy Research Institute:**

Report to the GTAP advisory board 2005

**Contact:** Xinshen Diao, Sr. Research Fellow

Telephone: 202-862-8113; email: x.diao@cgiar.org

IFPRI renewed its board member in last year and hence the current report includes information in both 2003 and 2004.

IFPRI went through structural adjustment in early 2003 and Macroeconomic and Trade Division was merged into Market, Trade and Institution Division and Development Strategy and Governance Division. For this reason, research involving CGE modeling in general and GTAP in specific has been conducted in the two divisions. The following projects are related to the use of CGE modeling or GTAP data:

### 1. WTO and trade issues

- a. Research on WTO and its effect on developing countries: (1) the wrap-up workshop of the IFPRI/FOI WTO project; (2) IFPRI Director General, Joachim von Braun addressed to WTO Public Symposium at Geneva and his address heavily cited the research results of an IFPRI global CGE model using GTAP data; and (3) a MTID discussion paper to be published. IFPRI research results on the developing countries' effect of WTO are widely cited or mentioned in both developed and developing countries and IFPRI communication division recorded 67 such citations.
- b. IFPRI finalized a three-year Bangladesh and WTO project in late 2003. This project was jointly conducted with Bangladesh Institute of Development Studies and Agricultural Economics Research Institute, Netherlands and financially supported by Ministry of Foreign Affairs, the Netherlands and DIFD, UK. The project involves both single country and global CGE modeling and use of GTAP data. Two workshops were held in Bangladesh and capacity building and training were part of the project too.
- c. China regional and national perspectives on integration into WTO. The project involves CGE analysis at the regional level. Two journal papers were published from this project. The paper published by *Journal of Comparative Economics* ranked at top 3 in 2004 according to the download record.
- d. Impacts of U.S. cotton policy on Africa. The project is conducted by using a global CGE model based on GTAP data.
- e. Market opportunities for Southern African agriculture in the new trade agenda. As a World Bank funded project, it uses a global CGE model based on GTAP data.

### 2. Development, growth and poverty reduction issues

- a. Regional dynamics of agricultural market in Sub-Saharan Africa. Part of the project uses a global CGE model based on GTAP data.
- b. Market opportunities for small holder agriculture in Africa. Part of the project uses a global CGE model based on GTAP data.

- c. Impact of high dam in Aswan in Egypt. Part of the project uses a single country CGE model.
- d. Policies for pro-poor agricultural growth in India, Malawi and Zimbabwe. Part of the project uses CGE modeling.
- e. 16 Latin American and the Caribbean countries were included in a project “the effects of export-led economic strategies on poverty, inequality, and growth.” A CGE model and SAM were developed for each country.
- f. A “research capacity strengthening for economy-wide policy analysis in Kuwait and the Arab region” started in 2003 and CGE modeling and SAM development are part of the project.
- g. The country level CGE or other economy-wide models are spatially disaggregated and link to household data for growth and poverty linkages analysis. Such methodology has been used for a few African country studies, including Uganda, Kenya, Zambia, Ethiopia, and Ghana.

### 3. Publications using CGE or other economy-wide models during 2003-04

“Scenarios for Trade Integration in the Americas,” *Economie Internationale* 94-95:33-52, 2003 (France) and *Integration and trade* No. 17, 2004 (U.S., Inter-American Development Bank). (X. Diao, E. Diaz-Bonilla and S. Robinson)

“The Impact of Domestic and Global Trade Liberalization on Five Southern African Countries.” *The Journal of Development Studies* 40(2):70-92, December 2003. (Peter Wobst)

“HIV/AIDS and Labor Force Upgrading in Tanzania.” *World Development* 32(11):1831-1847, 2004 (P. Wobst and C. Arndt)

“Trade Policies and Development of Less-favored Areas: Evidence from the Literature.” *Food Policy* 29(4):445-466, 2004. (Oskam, A.J., M.H.C. Komen, P. Wobst, and A. Yalew)

“Institutions and Policies for Pro-poor Agricultural Growth.” *Development Policy Review* 22(6):611-622, 2004. (Dorward, A., S. Fan, J. Kydd, H. Lofgren, J. Morrison, C. Poulton, N. Rao, L. Smith, H. Tchale, S. Thorat, I. Urey, and P. Wobst)

“Rethinking Agricultural Policies for Pro-poor Growth.” ODI Natural Resource Perspectives Number 94, August 2004. London: The Overseas Development Institute, 2004. (Dorward, A., S. Fan, J. Kydd, H. Lofgren, J. Morrison, C. Poulton, N. Rao, L. Smith, H. Tchale, S. Thorat, I. Urey, and P. Wobst)

“Regional and National Perspectives of China’s Integration into the WTO: A CGE Inquiry with Emphasis on the Agricultural Sector,” *Review of Urban & Regional Development Studies* 15(2): 84-105 July 2003. (Xinshen Diao, Agapi Somwaru and Francis Tuan)

- “China’s WTO Accession: Impacts on Regional Agricultural Income - A Multi-Region, General Equilibrium Analysis,” *Journal of Comparative Economics* 31(2): 332-351, 2003. (Xinshen Diao, Shenggen Fan and Xiaobo Zhang)
- “Can a Water Market Avert the ‘Double Whammy’ of Trade Reform and Lead to a ‘Win-Win’ Outcome?” *Journal of Environmental Economics and Management* 45(2003): 708-723. (Xinshen Diao and Terry Roe)
- Price Irrigation Water, Principles and Cases from Developing Countries*, Yaco Tsur, Terry Roe, Rachid Doukkali, Ariel Dinar with Contributions by Enrique Auilar, Hassan Banabderrazik, Wei Bingcai, Erol Cakmak, Xinshen Diao, Robert Johansson, Vladimir Lubinski, Michael Schur, and Zhou Yaozhou, Washington DC, US: RFF Press, 2004.
- “Do Direct Payments Have Intertemporal Effects on U.S. Agriculture?” in Moss and Schmitz (eds.) *Government Policy and Farmland Markets: The Maintenance of Farmer Wealth*. Ames: Iowa State University Press, 2004 (Terry Roe, Agapi Somwaru and Xinshen Diao)
- “Thinking inside the Boxes: Protection and Investments in the Development and Food Security Boxes.” In Anania Giovanni, M. Bohman, C. Carter, and A. McCalla (eds.) *Agricultural Policy Reform and the WTO: Where Are We Heading?* Cheltenham UK: Edward Elgar Publishing Ltd, 2004. (Eugenio Diaz-Bonilla, Xinshen Diao, and Sherman Robinson)
- “La libéralisation agricole: des effets ambigus sur les pays en développement,” in L. Fontagné, *L’économie mondiale 2005*, Paris, Ed. La Découverte, 2004. (A. Bouet, JC. Bureau, and Y. Decreux)
- “Le commerce international des Organismes Génétiquement Modifiés : entre sécurité alimentaire, réglementation phytosanitaire et protectionnisme,” in C. Regnault-Roger, ed., *Enjeux phytosanitaires pour l’agriculture et l’environnement du XXIème siècle*, Tec et Doc Lavoisier, Paris, 2004. (A. Bouet)
- “The Costs of the FTAA for the European Union with and without an agreement with Mercosur,” in A. Valladao, ed., *The Costs of opting out - The EU-Mercosur Agreement and the Free Trade Area of the Americas*, Inter-American Development Bank, 2003. (A. Bouet, D. Laborde, S. Tarascou and A. Yapaudjian)
- “A bilateral and disaggregated measurement of market access in the European Union and in the Mercosur,” in S. Page and A Valladao, eds., *Agriculture and agribusiness in the EU-Mercosur negotiations-Negotiating issues II*, Paris, Inter-American Development Bank, 2003. (A. Bouet)

- “Les entreprises françaises dans la mondialisation, Introduction,” special issue, *Economie & Statistique*, edited with T. Mayer, 363-365, 2003. (A. Bouet)
- “Poorer Countries Would Gain from Open Agriculture Markets: A technical Note.” In *Agriculture in the Global Economy*, Hunger 2003, 13th Annual Report on the State of World Hunger, Bread for the World Institute, Washington DC. (Xinshen Diao, Eugenio Díaz-Bonilla and Sherman Robinson)
- “*Macroeconomic Reform and Agriculture: Towards Equitable Growth in Zimbabwe*, Research Report 128. Washington DC: IFPRI, 2003. (R. M. Bautista, M. Thomas, K. Muir-Leresche, and H. Lofgren)
- “Poverty and Inequality Analysis in General Equilibrium Framework: the Representative Household Approach.” In *The Impact of Economic Policies on Poverty and Income Distribution: Evaluation Techniques and Tools*, edited by F. Bourguignon and L. Pereira da Silva. World Bank and Oxford University Press, pp. 325-337, 2003. (H. Lofgren, So. Robinson, and M. El-Said)
- “Exploring Market Opportunities for African Smallholders,” *2020 Africa Conference Brief 6*, IFPRI, 2004 (Xinshen Diao and Peter Hazell).
- “The WTO, Trade and Domestic Policy Reforms: Implications for Household Welfare in Bangladesh,” Final report of the Bangladesh and WTO project submitted to DIFD and Netherlands’ Government, 2003. (Dorosh, Pual, at al.)
- “Agricultural trade liberalization: its ambiguous consequences on developing countries,” *La Lettre du CEPPII*, July-August, n°236, 2004. (A. Bouet, JC Bureau, Y Decreux and S Jean)
- “Exploring Regional Dynamics in Sub-Saharan African Agriculture,” DSGD Discussion Paper No. 2, International Food Policy Research Institute, September 2003. (Xinshen Diao and Ykitsugu Yanoma)
- “Market Opportunities for African Agriculture: An Examination of Demand-side Constraints on Agricultural Growth,” DSGD Discussion Paper No. 1, International Food Policy Research Institute, September 2003. (Xinshen Diao, Paul Dorosh, and Shaika Mahfuzur Rahman)
- “Learning by Exporting and Productivity-Investment Interaction: An Intertemporal General Equilibrium Analysis of the Growth Process in Thailand,” EUI Working Paper ECO No. 2002/25, European University Institute, Department of Economics, Badia Fiesolana, San Domenico, Italy (Jorn Rattso and Hildegunn Stokke).
- “Modeling the Effects of Trade on Women, at Work and at Home: A Comparative Perspective,” TMD Discussion Paper 110, IFPRI, 2003. (M. Fontana)

- “Poverty-Focused Social Accounting Matrices for Tanzania,” TMD Discussion Paper 112, IFPRI, 2003. (J. Thurlow and P. Wobst)
- “Tell Me Where it Hurts, and I’ll Tell you Who to Call: Industrialized Countries’ Agricultural Policies and Developing Countries,” forthcoming MTID Discussion paper. (X. Diao, E. Diaz-Bonilla, S. Robinson, and D. Orden)
- “Growth Options and Market Opportunities for Zambian Agriculture.” A donor report by James Thurlow. December 2003
- “Market Opportunities for Southern African Agriculture in the New Trade Agenda: An Economy-wide Analysis from a Global CGE Model,” report submitted to the World Bank for the SADC regional integration project, 2003. (X. Diao and S. Robinson)
- “The Road to Pro-Poor Growth in Zambia—Past Lessons and Future Challenges.” Country case study under the joint DFID, World Bank, AFD, and GTZ-KfW work programme on “Operationalising Pro-Poor Growth.” Submitted as IFPRI/DSG DP and presented on October 13-15 2004 in Cape Town at the DPRU/TIPS conference on “African Development and Poverty Reduction: The Macro-Micro Linkage.” (Thurlow, J. and P. Wobst)
- “Agricultural Growth and Poverty Reduction: Assessment of the MDGs in Ethiopia and Zambia,” Chapter five in *Agriculture and Achieving the Millennium Development Goals*, an IFPRI publication under review, September 2004 (Xinshen Diao, James Thurlow, and Danielle Resnick).
- “Disaggregated Impacts of Agricultural Policy Reform on Poor Rural Households: Linking Household, Rural Economy and Economy-wide Analysis” paper prepared for the “OECD Global Forum on Agriculture: Designing and Implementing Pro-Poor Agricultural Policies” to be presented on December 2-3, 2004 at the OECD in Paris, 2004. (Dorward, A., C. Poulton, H. Tchale, and P. Wobst)
- “Modeling Pro-poor Agricultural Growth Strategies in Malawi: Lessons for Policy and Analysis.” Paper presented on October 13-15 2004 in Cape Town at the DPRU/TIPS conference on “African Development and Poverty Reduction: The Macro-Micro Linkage,” 2003. (Dorward, A., P. Wobst, H. Lofgren, H. Tchale, and J. Morrison)
- “Doha Scenarios, Trade Reforms, and Poverty in the Philippines,” in *Poverty Impacts of WTO Agreements*. Hertel T and L A Winters, eds., World Bank, 2005. (Caesar Cororaton, John Cockburn and Erwin Corong)

“Rice Reforms and Poverty in the Philippines: A CGE Analysis”. ADB Institute Research Paper No 57. Asian Development Bank Institute, Tokyo, Japan. 2005. (Caesar Cororaton)

“Trade Reform and Poverty in the Philippines: A CGE Microsimulation Analysis,” Poverty and Economic Policy Research Paper Laval University, Quebec, Canada, 2004. (Caesar Cororaton and John Cockburn)

“Trade Liberalization and Pollution: Evidence from the Philippines,” Economy and Environment Program for Southeast Asia (EEPSEA), Research Report No. 2002-RP7. (Caesar Cororaton and Rafaelita M. Aldaba)

“Trade Reforms, Income Distribution and Welfare: The Philippine Case,” Philippine Institute for Development Studies. Research Paper Series No. 2002-03. (Caesar Cororaton)