

## ERS Contributions to GTAP: Activity Report for 2014

### A. Presentations Using GTAP

Beckman, J., S. Arita, L. Mitchell, “The Transatlantic Trade and Investment Partnership: Effects on U.S., EU, and World Agriculture,” Selected paper, IATRC Conference, San Diego, December 7-9, 2014.

Beckman, J., “The Transatlantic Trade and Investment Partnership: Effects on U.S., EU, and World Agriculture,” Selected paper, EAAE Congress, Slovenia, September 3-7, 2014.

### B. ERS Publications

Burfisher, M., J. Dyck, B. Meade, L. Mitchell, J. Wainio, S. Zahniser, S. Arita, and J. Beckman, October 2014, “Agriculture in the Trans-Pacific Partnership,” Economic Research Report No. 176, U.S. Department of Agriculture.

Sands, R., December 2014, “With Adequate Productivity Growth, Global Agriculture is Resilient to Future Population and Economic Growth,” *Amber Waves (Feature)*, Vol. 12, Issue 5, Economic Research Service, U.S. Department of Agriculture.

Sands, R., December 2014, “Economic Responses Offset Potential Climate Change Impacts on Global Agriculture,” *Amber Waves (Finding)*, Vol. 12, Issue 5, Economic Research Service, U.S. Department of Agriculture.

Sands, R., C. Jones, and E. Marshall, September 2014, “Global Drivers of Agricultural Demand and Supply,” Economic Research Report No. 174, Economic Research Service, U.S. Department of Agriculture.

### C. Peer-Reviewed Journal Articles

Suttles, S.A., W.E. Tyner, G. Shively, R.D. Sands and B. Sohngen, 2014, “Economic effects of bioenergy policy in the United States and Europe: A general equilibrium approach focusing on forest biomass,” *Renewable Energy* 69: 428-436.

Sands, R.D., K. Schumacher and H. Förster, 2014, “U.S. CO<sub>2</sub> Mitigation in a Global Context: Welfare, Trade and Land Use,” *The Energy Journal* 35 (special issue 1): 181-197.

Sands, R.D., H. Förster, C.A. Jones and K. Schumacher, 2014, “Bio-electricity and Land Use in the Future Agricultural Resources Model (FARM),” in *The EMF27 Study on Global Technology and Climate Policy Strategies*, J. Weyant, E. Kriegler, G. Blanford, V. Krey, J. Edmonds, K. Riahi, R. Richels and M. Tavoni, eds. *Climatic Change* (special issue) 123(3-4): 719-730.

Nelson, G.C., H. Valin, R.D. Sands, P. Havlik, H. Ahammad, D. Deryng, J. Elliott, S. Fujimori, T. Hasegawa, E. Heyhoe, P. Kyle, M. von Lampe, H. Lotze-Campen, D. Mason d’Croz, H. van Meijl, D. van der Mensbrugghe, C. Müller, A. Popp, R. Robertson, S. Robinson, E. Schmid, C. Schmitz, A. Tabeau, and D. Willenbockel, 4 March 2014, “Climate change effects on agriculture: Economic responses to biophysical shocks,” *Proceedings of the National Academy of Sciences* (special feature) 111(9): 3274-3279.

von Lampe, M., D. Willenbockel, E. Blanc, Y. Cai., K. Calvin, S. Fujimori, T. Hasegawa, P. Havlik, P. Kyle, H. Lotz-Campen, D. Mason d’Croz, G. Nelson, R.D. Sands, C. Schmitz, A. Tabeau, H. Valin, D. van der Mensbrugghe and H. van Meijl, 2014, “Why Do Global Long-term Scenarios for Agriculture Differ? An Overview of the AgMIP Global Economic Model Inter-comparison,” *Agricultural Economics* (special issue) 45:3-20.

Nelson, G.C., D. van der Mensbrugghe, H. Ahammad, E. Blanc, K. Calvin, T. Hasagawa, P. Havlik, E. Heyhoe, P. Kyle, H. Lotze-Campen, M. von Lampe, D. Mason d’Croz, H. van Meijl, C. Müller, J. Reilly, R. Robertson, R.D. Sands, K. Takahashi, H. Valin, C. Schmitz and A. Tabeau, 2014, “Agriculture and Climate Change in Global Scenarios: Why Don’t the Models Agree?” *Agricultural Economics* (special issue) 45:85-101.

Valin, H., R.D. Sands, D. van der Mensbrugghe, G.C. Nelson, H. Ahammad, E. Blanc, B. Bodirsky, S. Fujimori, T. Hasegawa, P. Havlik, E. Heyhoe, P. Kyle, D. Mason d’Croz, S. Paltsev, S. Rolinski, A. Tabeau, H. van Meijl and D. Willenbockel, 2014, “The future of food demand: understanding differences in global economic models,” *Agricultural Economics* (special issue) 45:51-67.

Schmitz, C., H. van Meijl, P. Kyle, G.C. Nelson, S. Fujimori, A. Gurgel, P. Havlik, E. Heyhoe, D. Mason d’Croz, A. Popp, R.D. Sands, A. Tabeau, D. van der Mensbrugghe, M. von Lampe, M. Wise, E. Blanc, T. Hasegawa, A. Kavallari and H. Valin, 2014, “Land-use change trajectories up to 2050: insights from a global agro-economic model comparison,” *Agricultural Economics* (special issue) 45:69-84.

Robinson, S., H. van Meijl, D. Willenbockel, H. Valin, S. Fujimori, T. Masui, R.D. Sands, M. Wise, K. Calvin, P. Havlik, D. Mason d’Croz, A. Tabeau, A. Kavallari, C. Schmitz, J. Philipp Dietrich and M. von Lampe, 2014, “Comparing supply-side specifications in models of global agriculture and the food system,” *Agricultural Economics* (special issue) 45: 21-35.