

Wallace E. Tyner

KEY QUALIFICATIONS:

Tyner is the James and Lois Ackerman Professor in the Department of Agricultural Economics, Purdue University. He received his B.S. degree in chemistry (1966) from Texas Christian University, and his M.A. (1972) and Ph.D. (1977) degrees in economics from the University of Maryland. Professor Tyner's research interests are in the area of energy, agriculture, and natural resource policy analysis and structural and sectoral adjustment in developing economies. He has over 325 professional papers in these areas including three books and 110+ journal papers, published abstracts, and book chapters that have been cited about 5,000 times. His past work in energy economics has encompassed oil, natural gas, coal, oil shale, biomass, ethanol from agricultural sources, and solar energy. His current research focuses on renewable energy policy issues. He was Co-chair of the National Academy of Science Committee on the Economic and Environmental Impacts of Biofuels. He teaches a graduate course in benefit-cost analysis, which incorporates risk into the economic and financial analysis of investment projects.

In 2005, he received the "Distinguished Policy Contribution" award from his professional association. In June 2007, Senator Richard G. Lugar of Indiana named Tyner an "Energy Patriot" for his work on energy policy analysis. In 2009 he received the Purdue College of Agriculture Outstanding Graduate Educator award. In 2013, he received the AAEA Distinguished Graduate Teaching Award. In the past 3 years, he has published papers with 22 different graduate students. In 2015, he received the Purdue Morrill award for career accomplishments that have had impact on society and the Honorary Life Member award (their highest honor and equivalent to fellow) from the International Association of Agricultural Economists. In 2016, he was elected as a fellow of the American Association for the Advancement of Science.

He has 39 years of professional work experience including extensive long term and short term experience in developing countries. He spent three years (1985-88) in Morocco working as Senior Agricultural Economist and Deputy Team Leader for a project on planning, economics, and statistics for agriculture. Dr. Tyner has short-term experience in Senegal, Mali, Niger, the Gambia, Ghana, Burkina Faso, India, Bangladesh, China, Brazil, Morocco, Tunisia, Algeria, Egypt, Lebanon, Jordan, Kazakhstan, Estonia, Latvia, Lithuania, and Malaysia. He is fluent in French.

PERSONAL DATA:

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WORK EXPERIENCE:

current	James and Lois Ackerman Professor of Agricultural Economics
2008-present	Co-Director, Purdue Center for Research on Energy Systems and Policy
1984-10/2009	Professor of Agricultural Economics, Purdue University
2002/03	Visiting Professor at IAMM (Institute for Mediterranean Agriculture), INRA (National Agricultural Research Institute), and the University of Montpellier in Montpellier, France
1989-2002	Professor and Department Head, Department of Agricultural Economics, Purdue University, West Lafayette, Indiana
1985-1988	Senior Agricultural Economist and Deputy Team Leader, USAID project on Planning, Economics, and Statistics in Agriculture, Morocco
1977-Present	Assistant Professor, Associate Professor (1980), and Professor (1984), Department of Agricultural Economics, Purdue University

AWARDS:

2016	Fellow, American Association for the Advancement of Science
2015	Honorary Life Member, International Association of Agricultural Economists, their highest award (equivalent to fellow in other associations)
2015	Morrill Award, Purdue University for outstanding career achievements that have had impact on society
2013	Agricultural and Applied Economics Association – Distinguished Graduate Teaching Award
2009	American Association of Agricultural Economics – Quality of Communication award for <i>What's Driving Food Prices?</i>
2009	Team award for multidisciplinary biofuels research, Purdue College of Agriculture
2009	Outstanding Graduate Educator, Purdue College of Agriculture
2009	Best Economics Paper, AAEA Food Safety and Nutrition section.
2007	Senator Richard G. Lugar – “Energy Patriot” award for contributions to energy policy analysis
2005	American Association of Agricultural Economics – Distinguished Policy Contribution Award for policy work in Morocco
2002	Governor Frank O'Bannon – “Sagamore of the Wabash,” highest award given by the State of Indiana for service to Indiana
1999	American Association of Agricultural Economics – Outstanding Group Extension Program, Purdue University
1990-91	Committee on Institutional Cooperation Academic Leadership Fellow
1984	Purdue University School of Agriculture, Outstanding Researcher Award

International Experience of Wallace E. Tyner

Dates	Organization	Country	Topic
2011-14	World Bank	Morocco	Energy and climate change issues
2009/10	World Bank	Morocco	Analysis of economic distortions in agriculture and the <i>Maroc Plan Vert</i>
2008	World Bank	Malaysia	Food crisis policy response
2007	World Bank	Morocco	Analysis of domestic and trade policy issues
2007	USAID	Morocco	Teach benefit cost analysis
2006	USAID	Morocco	Agricultural policy analysis
2004	World Bank	Tunisia	Issues paper for agricultural sector review
2003/06	USAID (MEPI)	Morocco	Agricultural strategy development
2003/04	World ank/FAO	Morocco	Analysis for Morocco-US free trade agreement
2002/03	World Bank	Middle East	Review of Regional Initiative for Dryland Management (Working Group on the Environment of the Middle East Peace Process)
2002	USAID	Ghana	Present paper on the role of agribusiness in regional integration in West Africa
2002	World Bank	Morocco	Synthesis of Cereals Policy Reform Issues
2002	USAID	Egypt	Ag. Sector planning and analysis
2001/02	USAID	Mali	Ag. Sector planning and analysis
2001/02	World Bank	Global	Contributor to WB rural development strategy
2001	World Bank	MENA Region	Principal author of the Rural Development Strategy for the WB MENA region, <i>Reaching the Rural Poor in the Middle East and North Africa Region</i>
2000	US Grains Council	Morocco	Evaluation of Morocco poultry programs
2000/01	World Bank	Lebanon	Wheat and sugar policy analysis, and strategic planning for the agricultural sector
1997-99	USAID	Egypt	Teach a course in benefit-cost analysis, evaluation of wheat/flour policy options, analysis of trade and domestic policy reforms
1996	USAID	Mali	Work planning activity for INSAH
1996-00	World Bank	Morocco	Trade policy and protection analysis, sectoral reform, and impact evaluation methods
1995	USDA	Egypt	Analysis of U.S.-Egyptian competition in agricultural exports
1994	USDA	Kazakhstan	Review of USDA policy analysis project
1994	U. S. Grains Council	Morocco	Analysis of the impacts of reduction of maize protection on the poultry sector
1993	Abt Associates (USAID)	Morocco	Evaluation of study on the impacts of structural adjustment measures in agriculture
1992/93	World Bank	Latvia	Agriculture sector review and project identification
1988-95	USDA-PASA & DAI (USAID)	Morocco	15 trips dealing with topics related to structural adjustment, market reform, trade liberalization, and ag policy analysis
1991	Hudson Institute	Estonia, Latvia, and Lithuania	Transformation of the agricultural sector from a controlled to a market economy (structural adjustment)
1990/91	Abt Associates (USAID)	Tunisia	Liberalization of trade and decontrolling domestic markets in animal feed ingredients
1990	WPI, Inc.	Algeria	Seminar and paper on the functioning of U.S. agriculture and lessons to be learned for Algerian re-structuring
1985-88	USDA-PASA (USAID)	Morocco	Long term resident as agricultural economist and deputy team leader in project designed to improve economics and statistics in agriculture

SELECTED PUBLICATIONS:Books

Tyner, Wallace E. *Energy Resources and Economic Development in India*, Leiden, Netherlands: Martinus Nijhoff Press, 1978

Tyner, Wallace E.; and Kalter, Robert J. *Western Coal: Promise or Problem*, Lexington, MA: Lexington Books, 1978.

McKinzie, Lance; Baker, Timothy G.; and Tyner, Wallace E. *A Perspective on U.S. Farm Problems and Agricultural Policy*, Boulder, CO: Westview Press, 1987.

Selected Papers

Abbott, Philip C.; Tyner, Wallace E.; Roth, Michael J.; and Rafsnider, Giles F. "The Economics of Wheat Production in Morocco," *Journal of Agricultural Economics*, 42, No. 1 (January 1991): 23-32.

Stucky, Donna J.; and Tyner, Wallace E. "Economic Analysis of a Municipal Recycling Program." *American Journal of Agricultural Economics* 73, No. 5 (December 1991): 1534.

Kristjansson, Patricia; and Tyner, Wallace E. "Impacts of Feed Ingredient Subsidy Removal and Concurrent Trade Liberalization in Tunisia." *Agricultural Economics* 7 (1992): 331-39.

Tyner, Wallace E. "Corn-Derived Ethanol as a Liquid Fuel." In *The New Global Oil Market: Understanding Energy Issues in the World Economy*, pp.195-200. Edited by Siamack Shojai. Westport, CT: Praeger Publishers, 1995.

Arndt, Channing; Serghini, Hassan; and Tyner, Wallace E. "Analysis of the Impacts of Reducing Maize Protection Levels on the Moroccan Poultry Sector." *American Journal of Agricultural Economics* 77, No. 5 (December 1995): 1378.

Tyner, Wallace E. "World Food Needs Toward 2020: Discussion." *American Journal of Agricultural Economics* 79 (1997): 1485-86.

Tyner, Wallace (principal author). *Rural Development Strategy: Reaching the Rural Poor in the Middle East and North Africa Region*. World Bank, July 2002, 79 pages.

Tyner, Wallace (with the Cereals Reform Task Force). *Cereals Reform Synthesis Report*. Prepared for the World Bank and the Moroccan Ministry of Agriculture, July 2002.

Tyner, Wallace E. "Constraints and Opportunities for Regional Integration of Agribusiness and Related Industries in West Africa." Paper presented at the Private Sector Forum on West African Regional Integration, Accra, Ghana, October 23-24, 2002.

Tyner, Wallace E. "Le Farm Bill Américain – Quel Conséquence pour l'agriculture Américain et du Monde ?" Paper presented at the French Academy of Agriculture, November 2002, and published in *Compte Rendus de l'Académie d'Agriculture de France* No. 8/2002, pp. 21-30.

Arndt, Channing; and Tyner, Wallace E. "Policy and Progress in Moroccan Agriculture: A Retrospective and Perspective." Chapter (pp. 231-56) in *Food, Agriculture, and Economic Policy in the Middle East and North Africa*, edited by Hans Lofgren. Elsevier, 2003, 337 pages.

Tyner, Wallace; and Gray, Allan. "US Farm Program Implications for a Moroccan – US FTA." May 2003, 23 pages.

Tyner, Wallace E. "How Can Morocco Take Advantage of Its Climate and Resource Endowment to Increase Economic Growth and Development?" Paper presented at the Moroccan Association of Agricultural Economics (AMAEco) conference, May 20-21, 2004.

Jacquet, Florence; Tyner, Wallace E.; and Gray, Allan W. "La stabilisation du revenu des agriculteurs : un objectif central dans les politiques agricoles des Etats - Unis et de l'Union Européenne." *Economie Rurale* 281 (May-June 2004), pp. 9-27.

Ait El Mekki, Akka; and Tyner, Wallace E. "The Moroccan-American FTA Effects on the Agricultural and Food Sectors in Morocco." Paper presented at the 7th Annual Conference on Global Economic Analysis, Trade, Poverty, and the Environment, June 17-19, 2004, Washington, D.C. <https://www.gtap.agecon.purdue.edu/resources/download/1712.pdf>

He, Lixia; Tyner, Wallace E.; and Siam, Gamal. "Improving Irrigation Water Allocation Efficiency Using Alternative Policy Options in Egypt." Paper presented at the American Agricultural Economics Association meetings, August 1-4, 2004.

Tyner, Wallace E. "Agricultural Policy Reform in the Context of Trade Liberalization and Climatic Variability – the Case of Morocco." Paper presented at an ICARDA conference on "Obstacles to Technology Transfer for Small and Medium Sized Farmers in Arid and Semi-Arid Zones of North Africa," Algiers, Algeria, December 2004.

Serghini, Hassan, and Tyner, Wallace E. *Des Eléments de Reformes du Secteur Agricole*. Published on the CD for the December 2004 Expert Consultation led by Dr. Mohamed Ait Kadi, Rabat, Morocco, 25 pages.

Schroeter, Christiane; Lusk, Jayson; and Tyner, Wallace E. "The Impact of Taxes and Subsidies on Obesity." Paper presented at AAEA Annual Meeting in Providence, RI. July 2005. http://agecon.lib.umn.edu/cgi-bin/pdf_view.pl?paperid=16440&ftype=.pdf

He, Lixia; Tyner, Wallace E.; Doukkali, Rachid; and Siam, Gamal. "Strategic Policy Options to Improve Water allocation Efficiency: Analysis on Egypt and Morocco." Paper presented at AAEA Annual Meeting in Providence, RI. July 2005. http://agecon.lib.umn.edu/cgi-bin/pdf_view.pl?paperid=16141&ftype=.pdf

Tanner Ehmke, Mariah; Lusk, Jayson; and Tyner, Wallace E. "A Multidimensional Homo Economicus: Cultural Dimensions of Economic Behavior in Four Countries." Paper presented at AAEA Annual Meeting in Providence, RI. July 2005. http://agecon.lib.umn.edu/cgi-bin/pdf_view.pl?paperid=16291&ftype=.pdf

Tyner, Wallace E.; Jacquet, Florence; and Gray, Allan. Farm Income Stabilization: A Central Goal for American and European Policies. Paper presented at the 11th Congress of the European Association of Agricultural Economists, August 24-27, 2005, Copenhagen, Denmark. http://agecon.lib.umn.edu/cgi-bin/pdf_view.pl?paperid=17954&ftype=.pdf

Tyner, Wallace E. "The Choice of Quantitative Analysis Tools for Policy Analysis." in *Doctoral Research in Agricultural, Agro-food, and Rural Economics and Management*," proceedings of a doctoral meeting in Montpellier, France, June 2003, published in September 2005, pp. 23-26.

Dale, Rhys T., and Tyner, Wallace E. *Economic and Technical Analysis of Ethanol Dry-Milling: Model Description*. Department of Agricultural Economics Staff Paper 06-04, Purdue University, April 2006.

Dale, Rhys T., and Tyner, Wallace E. *Economic and Technical Analysis of Ethanol Dry-Milling: Model Users Manual*. Department of Agricultural Economics Staff Paper 06-05, Purdue University, April 2006.

Ait El Mekki, A. Jaafari, S., and Tyner, Wallace E. "Economic Competitiveness of the Meat Sub-sector in Morocco: The Case of Beef and Poultry." Paper presented at the 9th Annual Conference on Global Economic Analysis, GTAP/UNECA, Addis Ababa, Ethiopia, June 15-17, 2006. <https://www.gtap.agecon.purdue.edu/resources/download/2563.pdf>

Tyner, Wallace E. and Quear, Justin. "Making the Ethanol Subsidy More Efficient and Cost Effective." *Dialogue*, the newsletter of the U.S. Association for Energy Economics, August, 2006, pp.6-7. <http://www.usaee.org/pdf/Aug06.pdf#6d>.

He, Lixia; Tyner, Wallace E.; Doukkai, Rachid; and Siam, Gamal. "Policy Options to Improve Water Allocation Efficiency: Analysis on Egypt and Morocco." *Water International* 31-3 (2006), pp.320-337.

Tyner, Wallace E. and Quear, Justin. "Comparison of A Fixed and Variable Corn Ethanol Subsidy" *Choices*, Volume 21, No. 3, 2006, pp 199-202 of pdf. <http://www.choicesmagazine.org/2006-3/grabbaq/index.htm>.

Quear, Justin, and Tyner, Wallace E. "Development of A Variable Ethanol Subsidy and Comparison with the Fixed Subsidy." Staff paper 06-16, Department of Agricultural Economics, Purdue University, December 2006.

Tyner, Wallace E. "Future Prospects for Multilateral and Bilateral Trade Negotiations." *Problems of World Agriculture*, Volume XIV 2006, Warsaw Agricultural University Press, pp. 97-101.

Hurt, Chris, Tyner, Wally, and Doering, Otto. "Economics of Ethanol." Purdue Extension Publication ID-339, December 2006. <http://www.ces.purdue.edu/bioenergy>.

Tyner, Wallace E. "U.S. Ethanol Policy – Possibilities for the Future." Purdue Extension Publication ID-342-W, January 2007. <http://www.ces.purdue.edu/bioenergy>.

Tyner, Wallace E.; and Caffé, Maxime. "US and French Biofuels Policy – Possibilities for the Future," Paper presented at the OECD Workshop on Bioenergy Policy Analysis, Umea, Sweden, 22-23 January 2007.

Tyner, Wallace E.; and Taheripour, Farzad. "Future Biofuels Policy Alternatives," paper presented at the Farm Foundation/USDA conference on, April 12-13, 2007, St. Louis, Missouri. Published in *Biofuels, Food, and Feed Tradeoffs*, pages 10 – 18. <http://www.farmfoundation.org/projects/documents/Tynerpolicyalternativesrevised4-20-07.pdf>

Tyner, Wallace E. "What We Know and What We Need to Know on Biofuels, Food, and Feed Tradeoffs." Presentation concluding the Farm foundation/USDA conference, St. Louis, MO, April 12-13, 2007. Published in *Biofuels, Food, and Feed Tradeoffs* pages 149-153.

<http://www.farmfoundation.org/projects/documents/biofuelspaper-tyner.pdf>

Taheripour, Farzad, and Tyner, Wallace E. "Ethanol Subsidies: Who Gets the Benefits," paper presented at the Farm Foundation/USDA conference, April 12-13, 2007, St. Louis, Missouri. Published in *Biofuels, Food, and Feed Tradeoffs*, pages 91 - 98.

http://www.farmfoundation.org/projects/documents/TaheripourandTyner_St_Louis.pdf

Tyner, Wallace E. "Biofuels, Energy Security, and Global Warming Policy Interactions." Paper presented at the National Agricultural Biotechnology Council conference, South Dakota State University, Brookings, SD, May 22-24, 2007. Published in *Agricultural Biofuels: Technology, Sustainability and Profitability* (NABC Report 19), edited by A. Eagleshan and R.W.F. Hardy, pp. 155-65.

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<https://www.gtap.agecon.purdue.edu/resources/download/3939.pdf>

Birur, Dileep; Hertel, Thomas; and Tyner, Wallace E.. "Impact of Biofuel Production on World Agricultural Markets: A Computable General Equilibrium Analysis." Paper presented at the 10th annual GTAP conference, June 7-9, 2007, Lafayette, IN.

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Gardner, Bruce; and Tyner, Wallace E.. "Exploration in Biofuels Economics, Policy, and History: Introduction to the Special Issue." *Journal of Agricultural and Food Industrial Organization*, Vol. 5, No. 2, article 1 (December 2007). <http://www.bepress.com/jafio/vol5/iss2/art1>

Tyner, Wallace E. "Policy Alternatives for the Future Biofuels Industry." *Journal of Agricultural and Food Industrial Organization*, Vol. 5, No. 2, article 2 (December 2007), <http://www.bepress.com/jafio/vol5/iss2/art2>

Schroeter, Christine; Lusk, Jason; and Tyner, Wallace E.. "Determining the Impact of Food Price and Income Changes on Body Weight," *Journal of Health Economics* 27 (2008), pp. 45-68.

http://www.sciencedirect.com/science?_ob=MIimg&_imagekey=B6V8K-4NJ207C-1-2X&_cdi=5873&_user=29441&_orig=search&_coverDate=01%2F31%2F2008&_sk=999729998&_view=c&_wchp=dGLzVtz-zSkzV&_md5=a5b3509ad9bc77421b8228be4f07bd97&_ie=/sdarticle.pdf

This paper won the Food Safety and Nutrition section of the Agricultural and Applied Economics Association award for best paper at the 2009 AAEA meetings.

Tyner, Wallace E., Dooley, Frank, Hurt, Chris, and Quear, Justin. "Ethanol Pricing Issues for 2008," *Industrial Fuels and Power*, February 2008, pp.50-57.

Tyner, Wallace E. and Taheripour, Farzad. "Policy Analysis for Integrated Energy and Agricultural Markets in a Partial Equilibrium Framework." Paper presented at the Transition to a Bio-Economy Conference on February 12-13, 2008, and published in *Integration of Agricultural and Energy Systems* edited by Burton C. English, R. Jamey Menard, and Kim Jensen, pp.1-15, available at <http://farmfoundation.org/news/articlefiles/378-Atlanta%20final.pdf>.

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Perkis, David; Tyner, Wallace E.; and Dale, Rhys. "Economic Analysis of a Modified Dry Grind Ethanol Process with Recycle of Pretreated and Enzymatically Hydrolyzed Distillers' Grains." *Bioresource Technology* Vol. 99, issue 12, pp. 5243-49 (2008). <http://linkinghub.elsevier.com/retrieve/pii/S0960852407007742>

Ladisch, M., Dale, B., Tyner, W., Mosier, N., Kim, Y., Cotta, M., Dien, B., Blaschek, H., Laurenas, E., Shanks, B., Verkadeg, J., Schell, C., Petersen, G. "Cellulose conversion in dry grind ethanol plants," *Bioresource Technology* 99:5157-5159 (2008). http://www.sciencedirect.com/science?_ob=MIimg&_imagekey=B6V24-4S9NG64-1-3&_cdi=5692&_user=29441&_orig=search&_coverDate=08%2F31%2F2008&_sk=999009987&_view=c&_wchp=dGLbVlb-zSkzk&_md5=f1e110547abee0d9109868ab63acbbe4&_ie=/sdarticle.pdf

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Motamed, Mesbah; Foster, Ken; and Tyner, Wallace E.. "Applying Cointegration and Error Correction to Measure Trade Linkages: Maize Prices in the U.S. and Mexico" *Agricultural Economics*. Volume 38. Issue 4 (2008). <http://www3.interscience.wiley.com/cgi-bin/fulltext/119879536/PDFSTART>

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Brechbill, Sarah C.; Tyner, Wallace E.; and Ileleji, Klein E.. "The Economics of Biomass Collection, Transportation, and Supply to Indiana Cellulosic and Electric Utility Facilities." Transition to a Bioeconomy: Risk, Infrastructure and Industry Evolution. Farm Foundation conference. Berkeley, CA. June 24-25, 2008. <http://www.farmfoundation.org/news/articlefiles/365-Berkeley%20proceedings.pdf>

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Brechbill, Sarah, and Tyner, Wallace E. *The Economics of Renewable Energy: Corn Stover and Switchgrass*. Purdue Extension ID-404-W, June 2008. <http://www.ces.purdue.edu/extmedia/ID/ID-408-W.pdf>

Taheripour Farzad; Hertel, Thomas; and Tyner, Wallace E. (2008) "Implications of the Biofuels Boom for the Global Livestock Industry: A Computable General Equilibrium Analysis," paper for the 2009 *State of Food and Agriculture (SOFA) From the Food and Agriculture Organization of the UN (FAO)*, Center for Global Trade Analysis, Purdue University.

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