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Curriculum Vita
George W. Norton

ADDRESS:

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EDUCATION:

Ph.D., Agricultural Economics, University of Minnesota, 1979
M.S., Agricultural Economics, University of Minnesota, 1975
B.S., Agricultural Economics, Cornell University, 1971

PROFESSIONAL EXPERIENCE:

Professor (1991-present), Associate Professor (1986-91), Assistant Professor (1980-86), Department of
Agricultural and Applied Economics, Virginia Polytechnic Institute and State University

Visiting Scientist, Economic Research Service of the U.S. Department of Agriculture, Washington DC, August
1999 – July 2000

Visiting Associate Professor, Department of Agricultural and Applied Economics, Cornell University, September
1987-May 1988

Research Fellow (1988-1991) and Senior Fellow (1991-1994), International Service for National Agricultural
Research (ISNAR) (adjunct appointment)

Research Associate, Department of Agricultural and Applied Economics, University of Minnesota, St. Paul,
Minnesota, January 1979-August 1980

Consultant to Winrock International, Morrilton, Arkansas, assigned to the Sisseton-Wahpeton Sioux Indian
Reservation, Sisseton, South Dakota, April 1977-December 1978

Graduate Research Assistant, Department of Agricultural and Applied Economics, University of Minnesota, St.
Paul, Minnesota, January 1974-March 1977

Peace Corps Volunteer, Colombia, July 1971-October 1973

LANGUAGE:

Spanish -	<i>Read</i>	<i>Write</i>	<i>Speak</i>
	Good	Fair	Good

HONORS AND AWARDS:

Publication of *Enduring Quality*, 2015, from the American Agricultural Economics Association for book co-authored with Julian Alston and Philip Pardey, *Science Under Scarcity: Principles and Practice for Agricultural Research Evaluation and Priority Setting* (Ithaca, New York: Cornell University Press, 1995).

Latin America Section Outstanding Selected Poster Award, 2015, from the American Agricultural Economics Association for poster co-authored with Vanessa Carrión, Jeff Alwang, and Victor Barrera, RCTs for Agriculture: Exploring the Impact of a Text Message-based Intervention on Adoption of Blackberry Integrated Crop Management in Ecuador.

International Plant Protection Award of Distinction, presented as a group award to the Virginia Tech-led Integrated Pest Management Innovation Laboratory at the XVIII International Plant Protection Congress in Berlin, 2015.

Lifetime Achievement Award, presented at the 8th International IPM Symposium, St Lake City, UT, 2015.

Quality of Communication Award, Honorable mention, 2012 from the Agricultural and Applied Economics Association for report co-authored with Wallace Huffman and Luther Tweeten, *Investing in a Better Future Through Public Agricultural Research*, CAST Commentary QTA2011-1.

Alumni Award for Excellence in Graduate Academic Advising, Virginia Tech, 2011.

Certificate of Excellence for Educational Materials, Council for Agricultural Science and Technology, 2011

International IPM Excellence Award, group award for IPM CRSP presented at the 6th International IPM Symposium, Portland OR, 2009.

Alumni Award for Excellence in International Outreach and Research, Virginia Tech, 2001.

First place, essay competition sponsored by the International Food Policy Research Institute, co-authored essay with Jeffrey Alwang, *Policy for Plenty: Measuring the Benefits of Policy-Oriented Social Science Research*. 1996.

Committee Chair for the thesis *Estimating Environmental and Human Health Benefits of Reducing Pesticide Use Through Integrated pest Management Programs*, by Jeffrey D. Mullen, which received an American Agricultural Economics Association Outstanding M.S. Thesis Award, 1996.

Quality of Research Discovery, Honorable Mention, 1996 from the American Agricultural Economics Association for book co-authored with Julian Alston and Philip Pardey, *Science Under Scarcity: Principles and Practice for Agricultural Research Evaluation and Priority Setting* (Ithaca, New York: Cornell University Press, 1995).

Quality of Communication Award for 1994 from the American Agricultural Economics Association for book co-authored with Jeffrey Alwang, *Introduction to Economics of Agricultural Development* (New York: McGraw Hill, 1993).

Committee Chair for the dissertation *Pesticide Regulatory Actions and the Development of Pest Resistance: A Dynamic Bioeconomic Model*, by Richard F. Kazmierczak Jr., which received an American Agricultural Economics Association Outstanding Ph.D. Dissertation Award, 1992.

Committee co-chair for the dissertation *An Analysis of the Sources of Growth in French Agriculture, 1960-1984*, by Frederic C. Bouchet, which received an American Agricultural Economics Association Outstanding Ph.D. Dissertation Award, 1988.

Gamma Sigma Delta (Agricultural Honorary)
Alpha Zeta (Agricultural Honorary)
Sigma Xi (Scientific Honorary)

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:

American Agricultural Economics Association
American Economic Association
Southern Agricultural Economics Association
International Association of Agricultural Economists
American Association for the Advancement of Science

CURRENT TEACHING:

AAEC 3204 International Agricultural Development and Trade
AAEC 5154 International Agricultural Development and Trade
AAEC 5174 International Agricultural Development and Trade (on-line course)

ADVISING:

Advisor or co-advisor to 21 PhD students and 54 MS students.
Advisor to Alpha Zeta, agricultural honorary and service fraternity, 2003-2007
Advisor to more than 35 undergraduate interns.

PUBLICATIONS:

a. *Journal Articles* (* indicates graduate student)

Zeng, Di,* Jeffrey Alwang, George W. Norton, Bekele Shiferaw, Moti Jaleta, and Chilot Yirga, Agricultural Technology Adoption and Child Nutrition Enhancement: Improved Maize Varieties in Rural Ethiopia, *Agricultural Economics*, in press.

B. Paudel, C. Chan, J. Halbrecht, S.E. Crow, T.J.K. Radovich, and G. Norton, Bioeconomic optimization of conservation agriculture production systems (CAPS) for smallholder tribal farmers in the hill region of Nepal, *Journal of Soil and Water Conservation*, 71 (2) (March-April 2016): 103-117.

Carrion Yaguana, Vanessa,* Jeffrey Alwang, George Norton, and Victor Barrera, Does IPM Have Staying Power? Revisiting a Potato-producing Area Years After, *Journal of Agricultural Economics*, doi: 10.1111/1477-9552.12140.

Zeng, Di,* Jeffrey Alwang, George W. Norton, Bekele Shiferaw, Moti Jaleta, and Chilot Yirga, Ex-Post Impacts of Improved Maize Varieties on Poverty in Rural Ethiopia, *Agricultural Economics*, 46 (2015): 515-526.

Vaiknoras, K., G.W. Norton, and J. Alwang, Farmer Preferences for Attributes of Conservation Agriculture in Eastern Uganda. *African Journal of Agricultural and Resource Economics*, June 2015, 158-173.

Schwartz, H., D. Alston, J. Alwang, M. Bartolo, T. Blunt, C. O. Boateng, B. Bunn, C. S. Cramer, W. Cranshaw, J. Davidson, M. Derie, J. Doran, K. Douce, D. Drost, L. J. du Toit, J. Gao, T. Gourde, B. Gugino, B. Hammon, J. Hardin, M. Hausbeck, G. Jibilian, J. Lafferty, J. LaForest, M. S. McMillan, S. K. Mohan, J. Morrice, B. A. Nault, C. Nischwitz, G. Norton, K. Otto, H. R. Pappu, M. Petersen, R. Sampangi, B. Schroeder, W. Secor, S. Szostek, N. Tisserat, M. E. Uchanski, J. VanKirk, T. Waters, P. Wiriyajitsomboon, and C. Wohleb, Onion ipmPIPE: A Coordinated Effort to Improve the

Management of Onion Thrips and Iris Yellow Spot Virus for the U.S. Onion Industry, *Plant Health Review*, 154 (November 2014): 172-183.

Bonabona-Wabbi, Jackline,* Daniel B. Taylor, and George W. Norton, Willingness to Pay to Avoid Consumption of Pesticide Residues in Uganda: An Experimental Approach, *African Journal of Agricultural and Resource Economics*, 9 (3): (2014): 226-238.

Myrick, Stephanie,* George W. Norton, K.N. Selvaraj, Kiruthika Natarajan, and R. Muniappan, Economic Impact of Classical Biological Control of Papaya Mealybug in India, *Journal of Crop Protection*, 56 (February 2014): 82-86.

Harris, Leah,* George W. Norton, A.N.M. Rezaul Karim, Jeffrey Alwang, and Daniel B. Taylor, Bridging the Information Gap with Cost-Effective Dissemination Strategies: The Case of Integrated Pest Management in Bangladesh, *Journal of Agricultural and Applied Economics*, 45 (4) (2013): 639-654.

Dinakaran, D.; Gajendran, G.; Mohankumar, S.; Karthikeyan, G.; Thiruvudainambi, S.; Jonathan, E. I.; Samiyappan, R.; Pfeiffer, D. G.; Rajotte, E. G.; Norton, G. W.; Miller, S.; Muniappan, R., Evaluation of Integrated Pest and Disease Management Module for Shallots in Tamil Nadu, India: a Farmer's Participatory Approach, *Journal of Integrated Pest Management*. 4(2) (June 2013): 1-9

Sparger, J. Adam,* George W. Norton, Paul W. Heisey, and Jeffrey Alwang, Is the Share of Maintenance Research Rising in the United States?, *Food Policy*, 38 (February 2013): 126-135.

Nguema, Abigail,* George W. Norton, Jeffrey Alwang, Daniel B. Taylor, Victor Barrera, and Michael Bertelsen, Farm Level Impacts of Conservation Agriculture in Ecuador, *Experimental Agriculture*, 49 (1) (January 2013): 134-147.

Sparger, J. Adam,* Jeffrey Alwang, George W. Norton, Mauricio Rivera, and Donald Breazeale, Designing an IPM Research Strategy to Benefit Poor Producers and Consumers in Honduras, *Journal of Integrated Pest Management*, 2(3)(December 2011):1-9.

Chala, Zelalem*, George Norton and Jason Grant. "Economic Significance of Selective Export promotion for Poverty Reduction and Inter-Industry Growth of Ethiopia: Policy Analysis Based on a case Study of Cut-flower and Coffee Industries", *Ethiopian Journal of Business and Economics*, 2(1) (2011): 34-59.

Nguema, Abigail*, George W. Norton, Martin Fregene, Richard Sayre, and Mark Manary, Expected economic benefits of meeting nutritional needs through bio-fortified cassava in Nigeria and Kenya, *African Journal of Agricultural and Resource Economics*, 6(1)(2011): 70-86.

Atanu Rakshit*, A.N.M. Rezaul Karim, Tatjana Hristovska, and George W. Norton, Impact Assessment of Pheromone Traps to Manage Fruit Fly on Sweet Gourd Cultivation, *Bangladesh Journal of Agricultural Research*, 36 (2) (2011): 197-203.

Alwang, Jeffrey and George W. Norton, "What Types of Safety Nets Would be Most Efficient and Effective for Protecting Small Farmers and the poor Against Volatile Food Prices?" *Journal of Food Security*: 3 (Suppl 1) (2011): S139- S148.

Bayer, Jessica*, George W. Norton, and Jose Falck-Zepeda, "Cost Compliance with Biotechnology Regulation in the Philippines: Implications for Developing Countries," *AgBioForum*: 13 (1) (2010): 53-62

Rudi, Nderim,* George W. Norton, Jeffrey Alwang, and Godwin Asumugha, "Economic Impact Analysis of Marker-Assisted Breeding for Resistance to Pests and Post Harvest Deterioration in Cassava," *African Journal of Agricultural and Resource Economics*, 4 (2010) (2): 110-122.

Alpuerto, Vida-Lina Esperanza B*, George W. Norton, Jeffrey Alwang, and Abdelbagi M. Ismail, "Economic Impact Analysis of Marker-Assisted Breeding for Tolerance to Salinity and Phosphorous Deficiency in Rice," *Review of Agricultural Economics*, 31 (2009): 779-792.

Ricker-Gilbert, Jacob*, George W. Norton, Jeffrey Alwang, Monayem Miah, and Gershon Feder, "Cost Effectiveness of Alternative IPM Extension Methods: An Example from Bangladesh," *Review of Agricultural Economics*, 30 (2008): 252-269.

Gregory, Peter, Robert H. Potter, Frank A. Shotkoski, Desiree Hautea, K.V. Raman, Vijay Vijayaraghavan, William H. Lesser, George Norton, and W. Ronnie Coffman, "Bioengineered Crops as Tools for International Development: Opportunities and Strategic Considerations," *Experimental Agriculture*, volume 44, 2 (April 2008): 277-299.

Mauceri, Maria*, Jeffrey Alwang, George W. Norton, and Victor Barrera, "Adoption of Integrated Pest Management Technologies: A Case Study of Potato Farmers in Carchi, Ecuador," *Journal of Agricultural and Applied Economics*, 30 (December 2007): 765-780.

Moyo, Sibusiso*, George W. Norton, Jeffrey Alwang, Ingrid Rhinehart, and C. Michael Deom, "Peanut Research and Poverty Reduction: Impacts of Variety Improvement to Control Peanut Viruses in Uganda," *American Journal of Agricultural Economics*, 89, 2(May 2007):448-460.

Huffman, Wallace, George W. Norton, Gregory Traxler, George Frisvold, and Jeremy Foltz, "Winners and Losers: Formula Versus Competitive Funding of Agricultural Research," *Choices*, 21, 4 (2006): 269-274.

Nevitt, J., Mills, B.F., Reaves, D.W., & Norton, G.W., "Public perceptions of tobacco biopharming," *AgBioForum*, 9(2)(2006): 104-110. Available on the World Wide Web: <http://www.agbioforum.org>.

Kostandini, Genti*, Bradford Mills, and George W. Norton, "Potential Impact of Tobacco Bio-Pharming: The Case of Human Serum Albumin," *American Journal of Agricultural Economics*, 88 3(2006): 671-679.

Hareau, Guy G*, Bradford Mills, and George W. Norton, "The Potential Benefits of Herbicide Resistant Transgenic Rice in Uruguay: Lessons for Small Developing Countries," *Food Policy*, 31 (2006): 162-179.

Mamaril, Cezar B*. and George W. Norton, "Economic Evaluation of Transgenic Pest-Resistant Rice in the Philippines and Vietnam," *Quarterly Journal of International Agriculture*, 45, 2(2006): 127-144.

Schimmelpfennig, David E., Christopher J. O'Donnell, and George W. Norton, "Efficiency Effects of Agricultural Research in the United States," *Agricultural Economics*, 34 3 (2006): 273-280.

Daku, Lefter,* George W. Norton, Daniel B. Taylor, and Eivis Qenani-Petrela, "Agricultural Extension in South-Eastern Europe: Issues of Transition and Sustainability." *Journal of Agricultural Education and Extension*, 11:2 (2005): 49-62.

Schimmelpfennig, David E. and George W. Norton, "Assessing the Value of Economics Research: The Case of the Bias in the Consumer Price Index," *Contemporary Economic Policy*, 23,4 (2005): 625-635.

Hareau, Guy,* George E. Norton, Bradford F. Mills, Everett Peterson, Potential Benefits of Transgenic Rice in Asia: a General Equilibrium Analysis, *Quarterly Journal of International Agriculture*, 44 (2005):229-246.

Bergtold, Jason,* George Norton, and Charlene Brewster, Lomé to Contonou Conventions: Trade Policy Alternatives for the Senegalese Groundnut Sector. *Agricultural Economics*. 33(2005): 315-323.

Ebere Akobundu,* Jeffrey Alwang, Albert Essel, George W. Norton, and Abebayehu Tegene. "Does Extension Work? Impacts of a Program to assist Limited-Resource Farmers in Virginia." *Review of Agricultural Economics*. 26:3(Fall 2004): 361-372.

Victor Barrera, Luis Escudero,* Jeff Alwang, and George Norton, "Encontrado Salida para Reducir los Costos y la Exposition a Plaguicidas: Experiencias con ECAs en el Norte de Ecuador," *LEISA Revista de Agroecologia*, 19, 1 (Junio 2003): 46-48.

Schimmelpfennig, David E. and George W. Norton, "What is the Value of Agricultural Economics Research?" *American Journal of Agricultural Economics*, Volume 85 (1)(February 2003): 81-94.

Schimmelpfennig, David E. and George W. Norton, 2003, Measuring the Benefits of International Agricultural Economics Research, *Quarterly Journal of International Agriculture*, 42 (2)(2003): 207-222.

Cuyno, Leah C.M.,* George W. Norton, and Agnes Rola, "Economic Analysis of Environmental Benefits of Integrated Pest Management: A Philippines Case Study", *Agricultural Economics*, 25 (September 2001): 227-234.

Liu, Binzhang,* Shukla Kshirsagar,* Thomas Johnson, Craig Thatcher, and George W. Norton, "Evaluating the Short and Long Run Economic Impacts of the Virginia-Maryland Regional College of Veterinary Medicine", *Journal of Agricultural and Applied Economics*, 33,1(April 2001): 49-57.

Norton, George W., Edwin G. Rajotte, and Victor Gapud, "Participatory Research in Integrated Pest Management: Lessons from the IPM CRSP", *Agriculture and Human Values*, 16(1999): 431-439.

Mutangadura, Gladys* and George W. Norton, "Agricultural Research Priority Setting Under Multiple Objectives: An Example from Zimbabwe", *Agricultural Economics*, 20(1999): 277-286.

Trupo, Paul,* Luke A. Colavito,* Dixie W. Reaves, Charles W. Coale, Jr., and George W. Norton, "Agricultural Cooperation and Produce Marketing in Southwest Virginia", *Journal of Food Distribution Research*, 29 (July 1998): 45-58.

Ahearn, Mary C., Henry M. Bahn, Peter J. Barry, Sam M. Cordes, Tracy I. Hewitt, George W. Norton, Katherine Smith, and Amy M. Thurow, "Doing Good by Choosing Well: Priorities For Agricultural Economics", *Review of Agricultural Economics*, 20 (Fall/Winter 1998): 332-346.

Tjornhom, Jessica D.,* George W. Norton, and Victor Gapud, "Impacts of Price and Exchange Rate Policies on Pesticide Use in the Philippines", *Agricultural Economics*, 18 (March 1998): 167-175.

Mullen, Jeffrey D.* George W. Norton, and Dixie W. Reaves, "Economic Analysis of Environmental Benefits of Integrated Pest Management," *Journal of Agricultural and Applied Economics*, 29 (December 1997):243-253.

Norton, George W. and Jeffrey Alwang "Measuring the Benefits of Policy Research," *American Journal of Agricultural Economics*, 79 (December 1997): 1534-1538.

Tjornhom, Jessica D.,* George W. Norton, K.L. Heong, N.S. Talekar, and Victor Gapud, "Determinants of Pesticide Misuse in Philippine Onion Production," *The Philippine Entomologist*, (October 1997): 139-149.

Ortiz, Jaime,* Jeffrey Alwang, and George W. Norton, "Beneficios Sociales de la Investigacion Agropecuaria en Chile, en un Contexto de Politicas Distorsionadoras de Precios," *Agricultura Tecnica (Chile)*, SS (Julio-Diciembre, 1995): 189-203.

Ortiz, Jaime,* Jeffrey Alwang, and George W. Norton, "Interacciones Entre Politicas y Gastos en Investigacion Agropecuaria," *Cuadernos de Economia*, 32 (1995): 199-215.

Carcamo, Julio A.,* Jeffrey Alwang, and George W. Norton, "On-site Economic Evaluation of Soil Conservation Practices in Honduras," *Agricultural Economics*, 11 (1994): 257-269.

- Hwang, Sang,* Jeffrey Alwang, and George W. Norton, "Soil Conservation Practices and Farm Income in the Dominican Republic," *Agricultural Systems*, 46 (1994): 59-77.
- Pena, Pedro,* and George W. Norton, "Effects of Sectoral and Economy-Wide Policies on Tobacco Production in the Dominican Republic," *Journal of Agricultural and Applied Economics*, 25:1 (July 1993): 151-164.
- Kazmierczak, Richard F.* and George W. Norton, "Economic Effects of Resistance and Withdrawal of Organophosphate Pesticides on an Apple Production System," *Journal of Economic Entomology*, 86:3 (June 1993): 684-696.
- Norton, George W.,* Philip G. Pardey, and Julian M. Alston, "Economic Issues in Agricultural Research Priority Setting," *American Journal of Agricultural Economics*, 74:5 (December 1992): 1089-1094.
- Dey, Madan M. and George W. Norton, "Rice Research Priorities in Bangladesh: A Quantitative Analysis," *Bangladesh Journal of Agricultural Economics*, 15:2 (December 1992): 1-17.
- Norton, George W. and Jaime Ortiz, "Reaping the Returns to Research," *Journal of Production Agriculture*, 5:2 (April-June 1992): 203-209.
- Norton, George W., Jaime A. Ortiz, and Philip G. Pardey, "The Impact of Foreign Assistance on Agricultural Growth," *Economic Development and Cultural Change*, 40 (July 1992): 775-786.
- Adusei, Edward O.,* and George W. Norton, "The Magnitude of Agricultural Maintenance Research in the United States," *Journal of Production Agriculture*, 3:1 (January-March 1990): 1-6.
- Bezuneh, Mesfin,* Brady J. Deaton, and George W. Norton, "Farm Level Impacts of Food-For-Work in a Semi-Arid Region of Kenya," *Eastern Africa Economic Review*, 5:1(June 1989):1-8.
- Knight, Alan L., and George W. Norton, "Economics of Agricultural Pesticide Resistance in Arthropods," *Annual Review of Entomology*, 34(1989): 293-313.
- Bouchet, Frederic C.,* David R. Orden, and George W. Norton, "Sources of Growth in French Agriculture," *American Journal of Agricultural Economics*, 71:2 (May 1989): 280-293.
- Walters, Edward B.,* and George W. Norton, "Impacts of New Technologies in Two Regions of Peru," *Agricultural Systems*, 27:4 (1988): 241-249.
- Bezuneh, Mesfin,* Brady J. Deaton, and George W. Norton, "Food Aid Impacts in Rural Kenya," *American Journal of Agricultural Economics*, 70:1 (February 1988): 181-191.
- Napit, Krishna B.,* George W. Norton, Richard F. Kazmierczak, Jr., and Edwin G. Rajotte, "Economic Impacts of Extension Integrated Pest Management Programs in Several States," *Journal of Economic Entomology*, 81:1(February 1988): 251-256.
- Norton, George W., Victor G. Ganoza, and Carlos Pomareda, "Potential Benefits of Agricultural Research and Extension in Peru," *American Journal of Agricultural Economics*, 69:2 (May 1987): 247-257.
- Martinez, Stephen W.,* George W. Norton, Oral B. Capps, and William D. Weaver, "A Demand Model for the United States Broiler Industry," *Poultry Science*, 65 (November 1986): 2071-2075.
- Martinez, Stephen W.,* and George W. Norton, "Evaluating Privately Funded Public Research: An Example with Poultry and Eggs," *Southern Journal of Agricultural Economics*, 18:1 (July 1986): 129-140.

Greene, Catherine R.,* Randall A. Kramer, George W. Norton, Edwin G. Rajotte, and Robert M. McPherson, "An Economic Analysis of Soybean Integrated Pest Management," *American Journal of Agricultural Economics*, 67:2 (August 1985): 567-572.

Greene, Catherine R.,* Edwin G. Rajotte, George W. Norton, Randall A. Kramer, and Robert M. McPherson, "Revenue and Risk Analysis of Soybean Pest Management Options in Virginia," *Journal of Economic Entomology*, 78:1 (February 1985): 10-18.

Norton, George W., Joseph D. Coffey, and E. Berrier Frye, "Estimating the Returns to Agricultural Research, Extension, and Teaching at the State Level," *Southern Journal of Agricultural Economics*, 16:1 (July 1984): 121-128.

Bernat, Jr., G. Andrew,* and George W. Norton, "Estimating the Effects of Pesticide Use on Burley and Flue-cured Tobacco," *Southern Journal of Agricultural Economics*, 15:2 (December 1983): 93-98.

Smith, Blair L.,* George W. Norton, and Joseph G. Havlicek, Jr., "Impacts of Public Research Expenditures on Agricultural Value-added in the U.S. and the Northeast," *Journal of the Northeastern Agricultural Economics Council*, 12:2 (Fall 1983): 109-114.

Norton, George W., and Jeffrey S. Davis, "Evaluating Returns to Agricultural Research: A Review," *American Journal of Agricultural Economics*, 63:4 (November 1981): 685-699.

Norton, George W., "The Productivity and Allocation of Agricultural Research," *North Central Journal of Agricultural Economics*, 3:1 (January 1981): 1-12.

Norton George W., K. William Easter, and Terry L. Roe, "American Indian Farm Planning: An Analytical Approach to Tribal Decision Making," *American Journal of Agricultural Economics*, 62:4 (November 1980): 690-699.

Easter, K. William, and George W. Norton,* "Potential Returns from Added Research Budget for the Land Grant Universities," *Agricultural Economics Research*, 29:4 (October 1977): 127-133.

Easter, K. William, Martin E. Abel, and George W. Norton,* "Regional Differences in Agricultural Productivity in Selected Areas of India," *American Journal of Agricultural Economics*, 59:2 (May 1977): 257-265.

Norton, George W.,* "Consumer Markets in a Colombian Town," *The Journal of Consumer Affairs*, 10:1 (Summer 1976): 48-61.

b. *Books*

Norton , George W., Jeffrey Alwang, and William A. Masters, *The Economics of Agricultural Development: World Food Systems and Resource Use*, 3rd Edition, Oxon, UK, Routledge Press, 2015, 466 pp.

Norton, George W, *Hunger and Hope: Escaping Poverty and Achieving Food Security in Developing Countries*, Long Grove, IL, Waveland Press, 2014, 179 pages.

Norton , George W., Jeffrey Alwang, and William A. Masters, *The Economics of Agricultural Development: World Food Systems and Resource Use*, 2nd Edition, Oxon, UK, Routledge Press, 2010, 465 pp.

Norton, George W. and Desiree M. Hautea, *Projected Impacts of Agricultural Biotechnologies for Fruits and Vegetables in the Philippines and Indonesia*, (Los Banos, Philippines: ISAAA and SEARCA, 2009).

Raitzer D., and G.W. Norton. *Prioritizing Agricultural Research for Development: Experience and Lessons*, (New York: CABI, 2009).

Ramasamy, C., K.N. Selvaraj, George W. Norton, and V.K.Vijayraghavan, *Economic and Environmental Benefits and Costs of Transgenic Crops: An Ex-Ante Assessment*, Tamil Nadu Agricultural University Press: Coimbatore, 2007, 200pp.

Norton, George W., Jeffrey Alwang, and William A. Masters, *The Economics of Agricultural Development: World Food Systems and Resource Use*, Oxon, UK, Routledge Press, 2006, 448 pp.

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Alwang J., G. NORTON, V. Barrera and L. Escudero. 2004. Encontrando Salidas para Reducir los Costos y la Exposición a Plaguicidas en los Productores de Papa. Experiencia del la Intervención en la Provincia del Carchi, Ecuador. INIAP, Quito Ecuador, 2004, 122 pp. .

Ball, V. Eldon and George W. Norton, (eds.) *Agricultural Productivity: Measurement and Sources of Growth*, Norwell, MA, Kluwer, 2002.

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c. *Chapters in Books*

Norton, George and Jeffrey Alwang. The Role of Impact Assessment in Evaluating Agricultural R&D, Chapter 11 in N. Beintema, J. Lynam, and O. Badiane (eds.), *The Future of Agricultural Research in Africa South of the Sahara: Synergizing Resources, Innovation, and Partnerships*, International Food Policy Research Institute, Washington, DC. (in press)

Norton, George, Jeffrey Alwang, and Majd Sayed Issa, Impacts of IPM on Vegetable Production in the Tropics, Chapter 14 in R. Muniappan and E. A. Heinrichs (Eds): *Integrated Pest Management of Tropical Vegetable Crops*, New York, Springer, 2016.

Zeng, Di, Jeffrey Alwang, George Norton, Bekele Shiferaw, Moti Jaleta and Chilot Yirga. Maize technologies and rural poverty reduction in Ethiopia. Chapter 15 in Thomas Walker and Jeffrey Alwang (eds.), *Crop Variety Improvement and Impacts of Agricultural Research in Africa*, (New York: CABI Publishing, 2015).

Larochelle, Catherine, Jeffrey Alwang, George Norton, Enid Katungi and Ricardo Labarta. Impacts of Improved Bean Varieties on Poverty and Food Security in Uganda and Rwanda. Chapter 16 in Thomas Walker and Jeffrey Alwang (eds.), *Crop Variety Improvement and Impacts of Agricultural Research in Africa*. (New York: CABI Publishing, 2015).

Alwang, Jeffrey, George Norton, Victor Barrera and Ruben Botello. Conservation Agriculture in the Andean Highlands: Promise and Precautions, chapter 3 in "The Future of Mountain Agriculture," (Berlin Heidelberg Springer-Verlag, 2013).

Daku, L., R. Peshin, G.W. Norton, and D.B. Taylor, Economic Impact Assessment of Oilseed IPM Programs, Chapter 7, pp. 175-207, in S.K. Gupta (ed.) *Technological Innovations in Major World Oil Crops*, Volume 2, (Berlin, Springer, 2012).

Norton, G., K. Heong, D. Johnson, S. Savary. "Rice Pest Management: Issues and Opportunities," Chapter 2.5, pp. 297-332, in S.Pandey, D. Byerlee, D. Dawes, A. Dobermann, S. Mohanty, S. Rozelle, and B. Hardy (Eds.) *Rice in the Global Economy: Strategic Research and Policy Issues for Food Security* (Los Banos: International Rice Research Institute, 2010).

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Norton G W., and S. Swinton. "Protocol for Economic Impact Evaluation of IPM Programs," Chapter 3, pp. 79-101, in Rajinder Peshin and Ashok Dhawan (eds.) *Integrated Pest Management, Volume 2: Dissemination and Impact*, Berlin: Springer-Verlag, 2008.

Norton, G.W., C. Ramasamy, and K.N. Selvaraj, Introduction and Methods, Chapter 1 in Ramasamy, C., K.N. Selvaraj, George W. Norton, and V.K.Vijayraghavan, *Economic and Environmental Benefits and Costs of Transgenic Crops: An Ex-Ante Assessment*, Tamil Nadu Agricultural University Press: Coimbatore, 2007.

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Norton, George W., "New Technologies and the Agricultural Treadmill," *Fertilizer Progress Review*, 18:3 (May-June 1987): 40-43.

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State University (November-December 1982).

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Norton, George W., and G. Andrew Bernat, Jr., "Why Should a State Fund Agricultural Research and Extension?" *Southern Journal of Agricultural Economics* 17:1 (July 1985): 201.

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Bernat, Jr., G. Andrew, and George W. Norton, "Estimating the Effects of Pesticide Use on Burley and Flue-cured Tobacco," *Southern Journal of Agricultural Economics* 15:1 (July 1983): 171.

Norton, George W., Joseph D. Coffey, and E. Berrier Frye, "Estimating the Returns to Agricultural Research, Extension, and Education at the State Level," *Southern Journal of Agricultural Economics* 14:1 (July 1982): 167.

Norton, George W., and W. B. Sundquist, "The Use of Genetics Principles in Research Evaluation: An Example with Soybeans," *American Journal of Agricultural Economics* 63:5 (December 1981): 1049.

j. *Other*

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Kazmierczak, Jr., Richard F., George W. Norton, and Alan L. Knight, "Determining Optimal Pesticide Use and Resistance Management Resource Policies in a Simulation Environment: A Preliminary Report," Staff Paper 90-24, Department of Agricultural and Applied Economics, Virginia Polytechnic Institute and State University (October 1990): 1-29. (Paper presented by Mr. Kazmierczak at the 1990 Interdisciplinary Natural Resource Modeling Conference, Cornell University, October 13, 1990.)

Norton, "Analysis of Agricultural Research Priorities in Tanzania," Chapter 2 in the National Agricultural Research Management Plan for Tanzania, Dar Es Salaam, Tanzania (July 1990): 1-52.

Norton, George W., and Larry A. Nielsen, "Rationale for Adjusting the Land Grant Model to Meet Emerging Research Needs of Virginia Agriculture," Appendix I in *The Future of Agriculture, Forestry, Food Industries, and Rural Communities in Virginia*, Supplementary Report, College of Agriculture and Life Sciences, Virginia Polytechnic Institute and State University (January 1987): 66-70.

Norton, George W., and Brent M. Swallow, "Evaluating Depreciation and Maintenance of Agricultural Research," *American Journal of Agricultural Economics* 67:5 (December 1985): 1277.

Norton, George W., and Victor G. Ganoza, "The Benefits of Agricultural Research and Extension in Peru," paper prepared for North Carolina State University and USAID/Lima, Lima, Peru (June 1985): 1-101.

Norton, George W., "Economic Impact of an Agricultural Research Foundation in Honduras." A paper prepared for Winrock International Livestock Research and Training Center, Morrilton, Arkansas, and USAID, Washington, D.C. (July 1984): 1-30.

Whitaker, Morris D., Dan C. Galvan, David W. James, George W. Norton, and Jose Valle-Riestra, "Mid-term Evaluation of the USAID Research, Education, and Extension Project in Peru," Experience Incorporated and USAID, Washington, D.C. (March 1984): 1-150.

Pradhanang, A., K. Rajbansi, G. W. Norton, C. Peet, J. Wyatt-Smith, K. AwYong, R. Raturi, and H. Groenewold, "Nepal Agriculture Research Review Mission Report," FAO/World Bank Cooperative Programme Investment Centre, Report No. 92/83 CP, FAO of the United Nations, Rome (August 1983): 1-177.

External Grants Received

\$70.2 million in grant proposals funded, \$68.1 million as sole or lead proposal writer.

INTERNATIONAL EXPERIENCE:

Asia and Australia

Cambodia -- Participated in design and implementation of an integrated pest management research project for Cambodia on vegetable integrated pest management under the auspices of the USAID-funded IPM Innovation Lab (IL) and a separate project on rice IPM. Visited in January and April 2016 for planning and

in June 2016 to initiate a baseline survey in rice IPM.

India – Reviewed progress on eggplant biotechnology research, and made invited presentation at Tamil Nadu Agricultural University, February 2003

Presentation on measuring impacts of biotechnology to Indian and U.S. (Cornell) students and discussed impact assessment under Cornell's Agricultural Biotechnology Support Project II (ABSPII), Hyderabad, January, 2005.

Participated in design and implementation of an integrated pest management research project in India under the auspices of the USAID-funded IPM CRSP, (visited February, 2009, 2010, 2011, 2012, 2013, 2014).

The Philippines – Conducted impact assessment research on Challenge Grant Program at IRRI in March 2007.

Participated in design and implementation of an integrated pest management research project for the Philippines under the auspices of the USAID-funded IPM CRSP, including various seminars and workshops (visited each year from 1994 to 2008).

Presented seminar at SEARCA on measuring impacts of biotechnology and designed impact assessment for ABSPII in the Philippines and Indonesia, January, 2005; reviewed ABSPII project progress, May 2005, May 2006, and March 2007

Presented a paper, and participated as a discussant in Rice Research Prioritization Workshops at the International Rice Research Institute (IRRI), Los Banos, (August and February, 1994).

Bangladesh - Participated in the design and implementation of an integrated pest management research project for Bangladesh under the auspices of the USAID-funded IPM CRSP/IL, (visited 1-3 times per year from 1998 to 2016).

Assisted the Bangladesh Agricultural Research Council in conducting a study of agricultural research priorities (visited July and September 1989, January, 1990, and May, 1992).

Participated in a workshop on biotechnology impact assessment, organized under the auspices of the USAID-funded ABSPII project and the Bangladesh Agricultural Research Council, August 2005.

China - Presented a paper to, and participated in, The International Symposium on the Future of Agricultural Education at Beijing Agricultural University, October, 1990.

Australia - Collaborated with researchers on methods for setting agricultural research priorities at the Australian Center for International Agricultural Research (ACIAR), Canberra, February 1988.

Participated in and made 3 presentations at the 26th Conference of the International Association of Agricultural Economists, Gold Coast, August 12-18, 2006

Indonesia - Assisted ISNAR and host country researchers on methods for setting agricultural research priorities, Bogor, February 1988.

Assisted economists at the Indonesian Vegetable Research Center in Bandung with evaluations of tomato and potato biotechnology research, supported by USAID ABSPII project and the International Potato Center, March 2006.

Nepal – Visited field site and reviewed progress on IPM CRSP/IL in Nepal, May, 2008, 2009, Feb 2010, 2011. 2012, 2013, 2014, April 2015, Feb 2016.

Participated in a workshop on integrated pest management at the National Agricultural Research Council and met with officials at USAID to discuss funding possibilities for future IPM research, Katmandu, February, 1996.

Member of FAO-World Bank-USAID-ODA mission to review the Nepal agricultural research system, May-June 1983.

Vietnam – Participated in a stakeholders meeting to establish an IPM program in Vietnam under the auspices of the USAID-funded IPM CRSP, May 2005

Thailand – Participated in the annual meeting of the Generation Challenge Program Annual Research Conference, September 16-20, 2008.

Africa

Ethiopia -- Participated in the design and implementation of an integrated pest management research project for vegetables under the auspices of the USAID-funded IPM Innovation Lab (IL), visiting in April 2016.

Niger – Collaborated with Scientists at ICRISAT and INRAN on a study to design a sustainable mechanism for biological control of millet head minor, June 2014 and May-June 2015.

Uganda – Conducted initiated collaborative research to assess farmers' views on conservation agriculture in eastern Uganda, June, 2013 and potential poverty reducing impacts of conservation agriculture in July 2014.

Nigeria – Collaborated with scientists at the National Root Crops Research Institute on an evaluation of marker assisted breeding program on cassava, January 27- February 2, 2008.

Zimbabwe - Assisted the Department of Research and Specialist Services to develop and apply a procedure for setting agricultural research priorities (1995-1997), (visited July – August 1995, April - May 1996, and April, 1997).

Participated in and made two presentations at the World Bank/EDI Sponsored Program Development Workshop in Harare, February, 1995.

Participated in workshop to discuss the Land Tenure Commission Agricultural Services papers, March, 1995.

Participated in and led parts of a workshop in Bulawayo to develop a national agricultural research plan February -March 1991.

Senegal – Conducted collaborative research project on groundnut policy with ISRA/Kaolack (1997-2001), visited March, 1997.

Kenya – Participated in the design and implementation of an integrated pest management research project for vegetables under the auspices of the USAID-funded IPM Innovation Lab (IL), visiting in April 2016 to plan and in June 2016 to initiate a baseline survey.

Assisted the International Livestock Research Institute in developing a procedure for evaluating its programs, Nairobi: January, February, and May, 1996.

Participated in and led parts of a workshop on methods for setting agricultural research priorities, Nairobi, February, 1991.

Malawi - Participated in and led parts of a "Workshop on Managing Change" in the Department of Agricultural Research, Lilongwe, May, 1990.

Tanzania – Participated in the design and implementation of an integrated pest management research project for vegetables under the auspices of the USAID-funded IPM Innovation Lab (IL), visiting in April 2016.

Assisted the Department of Agricultural Research and Training and ISNAR in preparing a National Agricultural Research Plan for Tanzania (visiting several research stations, April - June, 1990).

The Gambia - Assisted the national agricultural research system in conducting a study of agricultural research priorities, March, 1989.

Ghana –Worked with an economist from the Crops research Institute in Kumasi on the evaluation of the Peanut IPM program with support from the Peanut CRSP, May 2006.

Mali – Worked with IER, AVRDC, and IITA to initiate a survey and design an evaluation of the program to control tomato viruses funded by the USAID-funded IPM CRSP and ABSPII projects, May 27-June 2, 2006.

Latin America and the Caribbean

Ecuador – Participated in implementation of the sustainable agriculture project for Ecuador under the auspicious of the USAID - Funded SANREM project, June, 2006. Led groups of 5-8 students conducting research in Ecuador in June 2007, 2009, 2011, 2013.

Participated in the design and implementation of an integrated pest management project for Ecuador under the auspicious of the USAID - Funded IPM-CRSP, Visited yearly 1997 – 2003, 2011, 2013.

Assisted the national agricultural research institution in studies of its agricultural research priorities and with an evaluation of their maize program (January 28-February 2 and April 17-27, 1991, February 8-18 and November 22-25, 1992).

Assisted in developing and applying a method for determining agricultural research priorities for the national agricultural research institution (August – November 1986, January and February 1991, February and November 1992).

Mexico – Participated in symposium on intellectual property rights and agricultural research impacts at CIMMYT (March, 1998) and as an advisory board member to a CIMMYT led research project, Mexico City, June, 1998

Guatemala - Participated in annual symposium and planned workshop for the IPM-CRSP, May, 1997, June 2012.

Jamaica - Participated in annual symposium and planning workshop for the IPM-CRSP, May, 1996.

Costa Rica - Participated in a workshop at the International Institute of Agricultural Cooperation on strengthening the capacity for agricultural research priority setting in Latin America and the Caribbean.

Attended advisory board meeting for CIMMYT research project, August 1999.

Venezuela - Assisted FONAIAP, the national agricultural research institution, with a study of their agricultural research priorities (traveled there July, August, and November, 1992, and March, 1993).

Eastern Caribbean - Assisted the United States Agency for International Development (USAID) to conduct an economic assessment of the impacts of additional USAID support for the Caribbean Agricultural Research and Development Institution (CARDI), Barbados and St Lucia, December, 1989.

Argentina - Presented a paper to, and participated in, a conference for the directors of the National Agricultural Research Systems in Argentina, Brazil, Bolivia, Chile, and Uruguay on the topic of procedures for setting agricultural research priorities, December, 1987.

Uruguay - Assisted in developing and applying a method for determining agricultural research priorities for their national research institution, Montevideo, November-December, 1986 and April - May, 1987.

Dominican Republic - Assisted in developing a method for determining agricultural research priorities for the national research institution, Santiago, March 1986.

Participated in a planning meeting to establish an IPM program in the DR under the auspices of the USAID-funded IPM CRSP and presented a workshop on agricultural research priority setting, May 2005. Planned and reviewed IPM CRSP progress in July 2010, May 2011.

Peru – Met with scientists at the International Potato Center to plan and discuss details of a project to evaluate impacts of CIP potato research, May 2014 and 2015.

Participated in an evaluation of the Peruvian National Agricultural Research and Extension Institution (with four trips to Peru from October 1984 - March 1986).

Participant in a team conducting a mid-term evaluation of the USAID-sponsored US Agricultural Research, Extension, and Education Project, January 1984.

Honduras - Participant in a team assembled by Winrock International to develop a plan for a national agricultural research institute near San Pedro Sula, June 1984.

Conducted IPM Impact Assessment Workshop at Zamorano, February 17-22, 2008.

Reviewed IPM CRSP progress at FHIA in May 2010.

Colombia - Peace Corps Volunteer, Agricultural extension agent with the National Federation of Coffee Growers of Colombia working with vegetables, fruits, fishponds, and small livestock in Pensilvania, Caldas, July 1971-October 1973.

Participated in a workshop on regional priority setting for agricultural research in Latin America and the Caribbean at the International Center for Tropical Agriculture (CIAT), November, 1995.

Initiated research impact assessment on Challenge Grant Program at CIAT April 15-17, 2007.

Presented seminar at CIAT and discussed impact assessment program in April 2010.

Visited field of the National Federation of Coffee Growers of Colombia in office in Pensilvania, Caldas, June 2012.

Europe and Middle East

Syria – Collaborated on research with scientists at ICARDA (the International Center for Agricultural Research in Dry Areas) and presented a seminar, Aleppo, February 1-10 2007.

Israel – Participant in a joint U.S-Israeli team to evaluate the Bi-national Agricultural Research and Development program which supports collaborative research between the two countries, Tel Aviv, January 2000.

Albania - Participant in a team that assessed the appropriate size, scope, and role of the Agricultural University of Tirana, April 1995.

The Netherlands - Presented a seminar on evaluating social science research and discussed research with scientists at ISNAR, The Hague, July, 1997.

Collaborated on research with scientists at ISNAR on agricultural research evaluation and priority setting (May – August 1988, July, 1990, July, 1991, March -April, 1992, February, June and July, 1993, and March, 1994).

Participated in, and led parts of, a workshop at ISNAR on methods for setting agricultural research priorities for directors of national agricultural research systems in developing countries, November, 1989.

Presented a paper on research priority setting at an ISNAR workshop for directors of 30 national agricultural research systems, September, 1987.

Italy - Sponsored by the Rockefeller Foundation to attend a seminar in Bellagio and present a paper on procedures for setting agricultural research priorities in national agricultural research systems, July, 1987.

Collaborated with a team of scientists at the FAO Investment Center in Rome to prepare a review report of the Nepal agricultural research system, June 1983.

Spain - Presented a paper to, and participated in, the XIX Triennial International Conference of Agricultural Economists, Malaga, August 1985.

Germany – Presented a paper and participated in the XXIV Triennial International Conference of Agricultural Economists, Berlin, August 2000.

INTERNATIONAL, NATIONAL, AND REGIONAL COMMITTEES AND ACTIVITIES:

Council on Food, Agricultural, and Resource Economics, Blue Ribbon Panel on Agricultural Development, 2011-present (Chair)

Member, National Research Council Committee on Prospective Benefits of Energy Efficiency and Fossil Fuels Research, 2004-2005

Board member, Council on Food, Agricultural, and Resource Economics (C-FARE), 2003 - 2005

Book Review Editor, *Agricultural Economics*, the Journal of the International Association of Agricultural Economists, 2000 – 2006

Member, CSREES review team for Department of Agricultural Economics, Michigan State University, June 2005

Member, CSREES review team for Department of Agricultural Economics and Management, Cornell University, May 1999

Scientific Advisory Panel, FIFRA, USEPA, October 2002

Desarrollo Rural Editorial Council, 2000-present

Program Planning Committee for Fifth National IPM Symposium, 2004-2006.

Poster Planning Committee for the Sixth International IPM Symposium, 2008-2009.

U.S. Council of the International Association of Agricultural Economists, 1996-2001(Chair)

Advisory Board, CIMMYT- led agricultural research project in Latin America, 1998-2000
IPM-CRSP, Technical Committee Chair, 1994 - present
Extension Committee on Policy (ECOP) National Integrated Pest Management (IPM) Task Force, 1992 - 1996
North Central Regional Research Committee, NC-208, 1991 - present (Chair, 1991-1996)
USDA/USEPA Integrated Pest Management Action Team for Tree Fruits, 1991
American Agricultural Economics Association, Chair of Senior Section, 2016-2017.
American Agricultural Economics Association, Awards Committee Chair, 2012-13.
American Agricultural Economics Association, Publication of Enduring Quality Awards Committee, 1998 –
2000
American Agricultural Economics Association, Outstanding Policy Contribution Awards Committee, 1993-
1996; 2002-2005, (Chair, 2003-2004)
American Agricultural Economics Association, Nominating Committee, 1989-1990
American Agricultural Economics Association, International Committee, 1986-1989
American Agricultural Economics Association, Quality of Communication Awards Committee, 1984-1987
(Chair, 1986-87)
Team member, Evaluation of the USAID Research, Education, and Extension Project in Peru, January 1984.
Team member, Nepal Agricultural Research Review Mission, May-June 1983
Member of Interregional Technical Committee, National Agricultural Research Planning and Analysis (IR-6),
1982-1991
Member, U.S.-BARD Review Panel for Agricultural Economics, 1982
Member of North Central Regional Research Committee, NC-148, 1978-1980
Member of Program Planning Committee for a Symposium on Agricultural Research Evaluation sponsored by
NC-148, May 1980