

## *Curriculum Vitae*

### **GEORGE B. FRISVOLD**

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#### **Education**

Ph.D., 1989    University of California, Berkeley, Agricultural and Resource Economics  
B.S., 1983    University of California, Berkeley, Political Economy of Natural Resources

#### **Professional Experience**

2002-2020    **Professor and Extension Specialist**, Department of Agricultural & Resource Economics, The University of Arizona, Tucson, AZ  
1997-2002    **Associate Professor and Extension Specialist**, Department of Agricultural & Resource Economics, The University of Arizona, Tucson, AZ  
1996-97      **Branch Chief**, Resource and Environmental Policy Branch, Natural Resources & Environment Division, Economic Research Service, USDA, Washington, DC  
1995-96      **Senior Economist**, President's Council of Economic Advisers, Executive Office of the President, Washington, DC  
1994          **Lecturer**, Department of Geography and Environmental Engineering, G.W.C. Whiting School of Engineering, The Johns Hopkins University, Baltimore, MD  
1989-95      **Agricultural Economist**, Resources and Technology Division, Economic Research Service, USDA, Washington, DC  
1986-87      **Visiting Research Scholar**, Department of Extension and Technology Transfer, National Institute of Rural Development, Hyderabad, India

#### **Affiliations**

- Climate Assessment for the Southwest
- University of Arizona, Institute for Energy Solutions
- University of Arizona, Global Change Interdisciplinary Program
- University of Arizona, Center for Latin American Studies

## Honors / Awards

- 2019 Fellow, Udall Center for Studies in Public Policy, University of Arizona
- 2017 Cactus and Pine Golf Superintendents Association Service Award (with A. Bickel and D. Duval) for report *Contribution of the Golf Industry to the Arizona Economy*
- 2015 University of Arizona, College of Agriculture & Life Sciences, Extension Team Award (with A Kerna & D Duval), Economic Impact Assessment Team.
- 2007 Award presented by the Intergovernmental Panel on Climate Change for contributing to its award of the 2007 Nobel Peace Prize
- 1997 Society for Technical Communication, Technical Communication Award for Scholarly / Professional Articles for Day, K. and G. Frisvold. Cooperative Research Bolsters War on Cancer. *Forum for Applied Research and Public Policy* 11(1996), 60-64.
- 1996 Letter of appreciation from President William Jefferson Clinton for economic analysis of Everglades restoration policies
- 1992 USDA Economic Research Service Administrator's Special Merit Award for Superior Service for Outstanding Publications on Public Research Investment
- 1992 USDA Certificate of Appreciation for Sustained Superior Performance and Contributions to the Resources and Technology Division
- 1991 USDA Certificate of Merit Award for Extraordinary and Exemplary Performance in the Program of the Resources and Technology Division
- 1991 USDA Certificate of Merit Award for Mentoring Minority Employees
- 1991 USDA Certificate of Merit Award for Staff Analysis

## Service to Professional Organizations

- Associate Editor, *Pest Management Sciences* 2016-present
- Associate Editor, *Water Economics & Policy* 2015-present
- Editorial Board Member, *AgBioForum*, 2004-present
- Weed Science Society of America, Education Committee Member, 2016-present
- President, USDA Multi-State Research Project, NC-1034: Impact Analyses and Decision Strategies for Agricultural Research, 2011-2019
- Grant Panel Manager, USDA AFRI CARE Program, 2017
- Chairperson of the Cotton and Economics Marketing Technical Conference of the Beltwide Cotton Conferences, 2010-11
- Vice-Chair of the Cotton and Economics Marketing Technical Conference of the Beltwide Cotton Conferences, 2009-10
- Co-Editor, *Review of Agricultural Economics*, 2004-9
- American Agricultural Economics (AAEA) membership committee, 2005-8
- Co-Editor, *Journal of Agricultural and Resource Economics*, 2001-3
- Associate Editor, *American Journal of Agricultural Economics*, 2000-2
- Editorial Board Member, *Choices*, 1998-2000
- AAEA selection committee for Quality of Communications Award. Member. 1999

## **Intramural Service**

- Chair, Advisory Board, The Jimmie S. & Helen F. Hillman Endowment for the Exchange of Scholars, University of Arizona (current)
- Director of Graduate Studies, Department of Agricultural & Resource Economics, University of Arizona (current)
- Member, Committee on Global Change. The Committee administers the University of Arizona's Ph.D. minor on Global Change (current)
- Acting Department Head, Department of Agricultural and Resource Economics, University of Arizona, Fall Semester 2013

## **Publications**

### Books

- [2] Colby, B & **G Frisvold** (eds.) (2011) *Adaptation and Resilience: The Economics of Climate-Water-Energy Challenges in the Arid Southwest*. Washington, DC: Resources for the Future Press. Volume co-editor and co-author of eight chapters.
- [1] **Frisvold, G** & B Kuhn. (eds.) (1999) *Global Environmental Change and Agriculture*. Northampton, MA: Edward Elgar. 1999.

### Journal Articles

- [78] Jørgensen; P, C Folke, P Henriksson, K Malmros, M Troell, A Zorzet, A Aktipis, Z Brown, Y Carrière, S Downes, R Dunn, G Epstein, **G Frisvold**, Y Gröhn, G Gujar, D Hawthorne, D Jasovsky, E Klein, F Klein, G Lhermie, D Mota-Sanchez, C Omoto, H Scott, D Wernli, S Carroll, (2020) Coevolutionary governance of antibiotic and pesticide resistance. *Trends in Ecology & Evolution*, 35, 484-494.
- [77] **Frisvold, G**, J Albright, D Ervin, M Owen, J Norsworthy, K Dentzman, T Hurley, R Jussaume, J Gunsolus, and W Everman (2020) Do farmers manage weeds on owned and rented land differently? Evidence from US corn and soybean farms. *Pest Management Science* 76, 2030-2039.
- [76] Bickel, AK, D Duval, **G Frisvold** (2019) Simple approaches to examine economic impacts of water reallocations from agriculture. *Journal of Contemporary Water Research & Education* 168, 29-48.
- [75] **Frisvold G** (2019) How low can you go? Measuring impacts of reduced pesticide use. *Pest Management Science* 75(5), 1223-1233.
- [74] Ervin, D, E Breshears, **G Frisvold**, T Hurley, K Dentzman, J. Gunsolus, R Jussaume, M Owen, J Norsworthy, M Al Mamun , W Everman (2019) Farmer attitudes toward cooperative approaches to herbicide resistance management: A common pool ecosystem service challenge.” *Ecological Economics* 157, 237-245.

- [73] Jørgensen, P, A Aktipis, Z Brown, Y Carrière, Sharon Downes, R Dunn, G Epstein, **G Frisvold**, D Hawthorne, Y Gröhn, G Gujar, D Jasovský, E Klein, F Klein, G Lhermie, D Mota-Sanchez, C Omoto, M Schlüter, H Scott, D Wernli, S Carroll (2018) Dynamics of antibiotic and pesticide susceptibility and the Anthropocene operating space. *Nature Sustainability* 1(11), 632-641.
- [72] Duval, D, A Bickel, **G Frisvold** (2018) Farm to school programs' local foods activity in Southern Arizona: A case study. *Journal of Agriculture, Food Systems, and Community Development* 8(Suppl. 3), 53-72.
- [71] **Frisvold, G**, C Sanchez, N Gollehon, S Megdal, P Brown (2018) Evaluating gravity flow irrigation, with lessons from Yuma, Arizona, USA. *Sustainability* 10(5), 1548; <https://doi.org/10.3390/su10051548>.
- [70] **Frisvold, G** (2018). A weed management game: A teaching tool. *Pest Management Science* 74 (10), 2376-2382.
- [69] Davis, A & **G Frisvold** (2017). Are herbicides a once in a century method of weed control? *Pest Management Science* 73(11), 2209-2220.
- [68] Duval, D, A Kerna, **G Frisvold**, K Umeda (2017) Water conservation and Cooperative Extension turfgrass programs in the Desert Southwest. *Golf Course Management*, August 2017, 74-77.
- [67] Barrett, M, D Ervin, **G Frisvold**, R Jussaume, D Shaw, S Ward (2017). A wicked view. *Weed Science* 65(4), 441-443.
- [66] **Frisvold, G**, M Bagavathiannan, J Norsworthy (2017) Positive and normative modeling for Palmer amaranth control and herbicide resistance management. *Pest Management Science* 73 (6), 1110-1120.
- [65] Ervin, D, **G Frisvold** (2016) Are community-based approaches to manage herbicide resistance wisdom or folly? *Choices* 4<sup>th</sup> Quarter, 31(4), 1- 4.
- [64] Ervin, D, **G Frisvold, G**, D Ervin (2016) Theme Overview: Herbicide Resistance Management, *Choices* 4<sup>th</sup> Quarter, 31(4), 1- 8.
- [63] Ervin, D, **G Frisvold** (2016) Community-based approaches to herbicide resistant weed management: Lessons from science and practice. *Weed Science* 64 (Sp 1), 609-626.
- [62] **Frisvold, G**, T Bai (2016) Irrigation technology choice as adaptation to climate change in the western U.S. *Journal of Contemporary Water Research & Education* 158. 62-77.
- [61] Hurley, T, **G Frisvold** (2016) Economic barriers to herbicide resistance management. *Weed Science* 64 (Sp 1), 585-594.
- [60] Livingston, M, J Fernandez-Cornejo & **G Frisvold** (2016) Economic returns to herbicide resistance management in the short and long run: The role of neighbor effects. *Weed Science* 64 (Sp 1), 595-608.

- [59] Pannell, D, P Tillie, E Rodriguez-Cerezo, D Ervin, **G Frisvold** (2016) Herbicide resistance: Economic and environmental challenges *AgBioForum* 19, 136-155.
- [58] Dong, F, P Mitchell, T Hurley, **G Frisvold** (2016) Quantifying adoption intensity for weed resistance management practices and its determinants among U.S. soybean, corn, and cotton farmers. *Journal of Agricultural and Resource Economics* 41, 42-61.
- [57] **Frisvold, G** (2015) Water, agriculture, and drought in the West under changing climate and policy regimes. *Natural Resources Journal* 55, 293-328.
- [56] **Frisvold, G, J Reeves** (2015) Genetically Modified Crops: International Trade and Trade Policy Effects. *International Journal of Food and Agricultural Economics* 3, 1-13.
- [55] Ashley Kerna, A, **G Frisvold**, L Jacobs, V Farrell, L Houtkoope, S Misner (2015) Application of IMPLAN to extension programs: Economic impacts of the University of Arizona Cooperative Extension SNAP-Ed spending. *Journal of Extension* 53, 1-4, Article # 6TOT4.
- [54] Naranjo, S, P Ellsworth, **G Frisvold** (2015) Economic value of biological control in integrated pest management of managed plant systems. *Annual Review of Entomology* 60, 621-645.
- [53] Bark, R, **G Frisvold**, K Flessa (2014) The role of economics in transboundary restoration water management in the Colorado River Delta. *Water Resources and Economics* 8, 43-56.
- [52] **Frisvold, G** (2014) Overview of the special issue in honor of Jimmie S. Hillman. *AgBioForum* 17, 1-3.
- [51] Büyüktaktin, İE, Z Feng, AD Olsson, **G Frisvold**, & Ferenc Szidarovszky (2014) Invasive species control optimization as a dynamic spatial process: An application to buffelgrass (*Pennisetum ciliare*) in Arizona. *Invasive Plant Science and Management* 7, 132-146.
- [50] Büyüktaktin, İE, Z Feng, **G Frisvold**, & F Szidarovszky (2013) Invasive species control based on a cooperative game. *Applied Mathematics* 4, 54-59.
- [49] **Frisvold, G & S Deva** (2013) Climate and choice of irrigation technology: implications for climate adaptation. *Journal of Natural Resources Policy Research* 5, 107-127.
- [48] **Frisvold, G & K Konyar** (2013) Climate change mitigation policies: Implications for agriculture and water resources. *Journal of Contemporary Water Research and Education* 150, 27-42.
- [47] **Frisvold, G & T Marquez** (2013) Water requirements for large-scale solar energy projects in the West. *Journal of Contemporary Water Research and Education*, 150, 106-116.
- [46] **Frisvold, G & A Murugesan** (2013) Use of weather information for agricultural decision making. *Weather, Climate & Society* 5, 55-69.
- [45] Norman, L, M Villarreal, R Niraula, T Meixner, **G Frisvold**, W Labiosa (2013) Framing scenarios of binational water policy with a tool to visualize, quantify and value changes in ecosystem services. *Water* 5, 852-874.

- [44] **Frisvold, G** & S Deva (2012) Farm size, irrigation practices, and conservation program participation in the US Southwest. *Irrigation and Drainage* 61, 569–582.
- [43] **Frisvold, G** & K Konyar (2012) Less water: How will agriculture in southern Mountain states adapt? *Water Resources Research* 48, W05534, doi:10.1029/2011WR011057.
- [42] Norsworthy, J, S Ward, D Shaw, R Llewellyn, R Nichols, T Webster, K Bradley, **G Frisvold**, S. Powles, N Burgos, W Witt, M Barrett (2012) Reducing the risks of herbicide resistance: Best management practices and recommendations. *Weed Science* 60, 31–62.
- [41] Büyüktaktın, İE, Z Feng, **G Frisvold**, F Szidarovszky, A Olsson (2011) A dynamic model of controlling invasive species. *Computers & Mathematics with Applications* 62, 326–3333.
- [40] **Frisvold, G**, & J Reeves (2010) Resistance management and sustainable use of agricultural biotechnology. *AgBioForum* 13, 343–359.
- [39] Thompson, G, S Aradhyula, **G Frisvold**, R Tronstad (2010) Does paying referees expedite reviews? Results of a natural experiment. *Southern Economic Journal* 76, 678–692.
- [38] **Frisvold, G**, A. Boor, J Reeves (2009) Simultaneous diffusion of herbicide resistant cotton and conservation tillage. *AgBioForum* 12, 249-257.
- [37] **Frisvold, G.**, T Hurley, P Mitchell (2009) Adoption of best management practices to control weed resistance by corn, cotton, and soybean growers. *AgBioForum* 12, 370-381.
- [36] **Frisvold, G**, T Hurley, P Mitchell (2009). Overview: Herbicide resistant crops—diffusion, benefits, pricing, and resistance management. *AgBioForum* 12, 244-248.
- [35] Hurley, T, P Mitchell, **G Frisvold** (2009) Characteristics of herbicides and weed-management programs most important to corn, cotton, and soybean growers. *AgBioForum* 12, 269-280.
- [34] Hurley, T, P Mitchell, **G Frisvold** (2009) Effects of weed resistance concerns and resistance management practices on the value of Roundup Ready® crops. *AgBioForum* 12, 291-302.
- [33] Innes, R & **G Frisvold** (2009) The Economics of endangered species. *Annual Review of Resource Economics* 1, 485-512.
- [32] **Frisvold, G** & K Day-Rubenstein (2008) Bioprospecting and biodiversity conservation: What happens when discoveries are made? *Arizona Law Review* 50, 545-576.
- [31] **Frisvold, G** & J Reeves (2008) The costs and benefits of refuge requirements: The case of Bt cotton. *Ecological Economics* 65, 87-97.
- [30] **Frisvold, G**, J Reeves, R Tronstad (2006) Bt cotton adoption in the United States and China: International trade and welfare effects. *AgBioForum* 9, 69-78.
- [29] Huffman, W, G Norton, G. Traxler, **G. Frisvold**, J Foltz (2006) Winners and losers: Formula versus competitive funding of agricultural research. *Choices* 24, 269-274.
- [28] **Frisvold, G**, J Reeves, R Tronstad (2006) Bt Cotton Adoption in the United States and China: International Trade and Welfare Effects. *AgBioForum* 9, 69-78.

- [27] **Frisvold G** (2004) How federal farm programs affect water use, quality, and allocation among sectors. *Water Resources Research* 40, W12S05.
- [26] Day-Rubenstein, K, P Heisey, C Klotz-Ingram, **G Frisvold** (2003) Competitive grants and the funding of agricultural research in the U.S. *Review of Agricultural Economics* 25, 352-368.
- [25] **Frisvold, G**, J Sullivan, A Ranases (2003) Genetic improvements in major U.S. crops: The size and distribution of benefits. *Agricultural Economics* 28, 109-199.
- [24] **Frisvold, G** & D Osgood (2002) Ambos Nogales: A tale of two cities and water management on the U.S.-Mexico Border. *Journal of Law and Border Studies* 2, 7-36.
- [23] Day-Rubenstein, K & **G Frisvold** (2001) Genetic prospecting and biodiversity development agreements. *Land Use Policy* 18, 205-219.
- [22] **Frisvold, G**, K Fernicola, M Langworthy (2001) Market returns, infrastructure and the supply and demand for extension services. *American Journal of Agricultural Economics* 83, 758-763.
- [21] **Frisvold, G** & D Osgood (2001) Financing wastewater collection and treatment on the U.S.-Mexico border. *Water Resources Update* 121, 40-49.
- [20] Day-Rubenstein, K, M Stuart, **G Frisvold** (2000) Agricultural land use in tropical countries: Patterns, determinants, and implications for biodiversity loss. *World Resources Review* 12, 621-650.
- [19] **Frisvold, G** (2000) Data, information, and rural environmental policy: What will the next ten years bring? *Review of Agricultural Economics* 22, 238-45.
- [18] **Frisvold, G** & M Caswell (2000) Transboundary water management: Game-theoretic lessons for projects on the U.S.-Mexico border. *Agricultural Economics* 24, 101-111.
- [17] **Frisvold, G**, J Sullivan, A Ranases (1999) Who benefits from genetic improvements in U.S. crops? *AgBioForum* 2, 226-35.
- [16] **Frisvold, G** & P Condon (1998) The Convention on Biological Diversity and agriculture: Implications and unresolved debates. *World Development* 26, 551-70.
- [15] Winters, P, R Murgai, A de Janvry, E Sadoulet, **G Frisvold** (1998) Economic and welfare impacts of climate change on developing countries. *Environmental and Resource Economics* 12, 1-12.
- [14] **Frisvold, G**, K Fuglie, C Klotz-Ingram (1998) Growth of private agricultural research. *Choices* 13, 22-3.
- [13] Day, K & **G Frisvold** (1996) Cooperative research bolsters war on cancer. *Forum for Applied Research & Public Policy* 11, 60-64.
- [12] Larson, B & **G Frisvold** (1996) Fertilizer use in Sub-Saharan Africa: What is needed and why. *Food Policy* 21, 509-525.
- [11] Larson, B & **G Frisvold** (1996) Uncertainty over future environmental taxes: Impacts on current investment in resource conservation. *Environmental & Resource Economics* 8, 461-471.

- [10] **Frisvold, G** & P Condon (1995) The Convention on Biological Diversity: Implications for agriculture. *Technological Forecasting & Social Change* 50, 41-54.
- [9] **Frisvold, G** & K Ingram (1995) Sources of agricultural productivity growth and stagnation in Sub-Saharan Africa. *Agricultural Economics* 13, 51-61.
- [8] Westenbarger, D & **G Frisvold** (1995) Air pollution and farm-level crop yields: An empirical analysis of corn and soybeans. *Agricultural & Resource Economics Review* 24, 156-165.
- [7] **Frisvold, G** (1994) Does supervision matter? Some hypothesis tests using Indian farm-level data. *Journal of Development Economics* 43, 217-238.
- [6] **Frisvold, G** & P Condon (1994) Biodiversity conservation and biotechnology development agreements. *Contemporary Economic Policy* 12, 1-9.
- [5] Westenbarger, D & G Frisvold (1994) Agricultural exposure to ozone and acid precipitation. *Atmospheric Environment* 28, 2895-2907.
- [4] Day, K & **G Frisvold** (1993) Medical research and genetic resources management: The case of taxol. *Contemporary Policy Issues* 11, 1-11.
- [3] Day, K & **G Frisvold** (1993) What happened to natural resources and environmental research in the US? *Evolutionary Trends in Plants* 1, 1-4.
- [2] **Frisvold, G** (1991) Emerging issues in the allocation of public agricultural research funds. *American Journal of Agricultural Economics* 73, 876-881.
- [1] **Frisvold, G**, R Mines & J Perloff (1988) Effects of job site sanitation and living conditions on the health and welfare of agricultural workers. *American Journal of Agricultural Economics* 70, 873-885.

#### Chapters in Books and Monographs

- [35] **Frisvold, G** (2019) Economic assessment of IPM implementation. In *Integrated Management of Insect Pests: Current and Future Developments*. M Kogan, EA Heinrichs (eds.) Cambridge: Burley Dodds.
- [34] Naranjo, S, **G Frisvold**, P Ellsworth (2019) Economic value of arthropod biological control. In *The Economics of Integrated Pest Management of Insects*. D Onstad, P Crain (eds.) Wallingford, UK: CABI.
- [33] Konyar, K, **G Frisvold** (2019). Climate policies as water policies. In *Applied Methods for Agriculture and Natural Resource Management: A Festschrift in Honor of Richard Howitt*. S Msangi, D MacEwan (ed). New York: Springer Verlag.
- [32] **Frisvold, G** & M Caswell (2018). Transboundary water management: Game-theoretic lessons for projects on the U.S- Mexico border. In *Economics of Water Resources: Institutions, Instruments and Policies for Managing Scarcity*. M Renwick (ed.) London: Routledge.

- [31] **Frisvold, G** & S Deva (2016) Climate and choice of irrigation technology: implications for climate adaptation. In *Climate Variability and Water Dependent Sectors: Impacts and Potential Adaptations*. D Peck, J Peterson (eds.) London: Routledge.
- [30] Colby, B, **G Frisvold** & M Mealy (2015) Reallocating climate risks through water trading. In *Routledge Handbook of Water Economics and Institutions*. K Burnett, R Howitt, J Roumasset, C Wada (eds.) London: Routledge.
- [29] **Frisvold, G** (2014) Herbicide resistant crops. In *Encyclopedia of Food and Agricultural Ethics*. P Thompson & D Kaplan (eds.) Dordrecht, The Netherlands: Springer.
- [28] **Frisvold, G** & J Reeves (2014) Aggregate effects: Adopters and non-adopters, consumers, and investors. In *Handbook on Agriculture, Biotechnology and Development*. S Smyth, P Phillips, & D Castle (eds.) Cheltenham, UK: Edward Elgar Publishing.
- [27] **Frisvold, G** & J Reeves (2014) Herbicide resistant crops and weeds: Implications for herbicide use and weed management. In *Integrated Pest Management: Pesticide Problems, Vol. 3*. D Pimentel & R Peshin (eds.) Dordrecht, The Netherlands: Springer.
- [26] **Frisvold, G** & J Reeves (2014) IPM, Bt crops, and insecticide use: The U.S. experience. In *Integrated Pest Management: Experiences with Implementation, Vol. 4*. R Peshin & D Pimentel (eds.) Dordrecht, The Netherlands: Springer.
- [25] **Frisvold, G**, L Jackson, J Pritchett, & J Ritten (2013) Agriculture and ranching. In *Assessment of Climate Change in the Southwest United States: A Report Prepared for the National Climate Assessment*, G Garfin, A Jardine, R Merideth, M Black, & S LeRoy (eds.) Report by the Southwest Climate Alliance. Washington, DC: Island Press.
- [24] **Frisvold, G** (2012) A social science perspective on weed management practices. In *National Summit on Strategies to Manage Herbicide-Resistant Weeds: Proceedings of a Symposium*. National Research Council (ed.) Washington, DC: National Academies Press.
- [23] Büyüktaktakin, IE, Z Feng, F Szidarovszky, & **G Frisvold** (2011) A game theoretical approach to invasive species management. In *Proceedings of the 2011 Industrial Engineering Research Conference*, T Doolen & E Van Ake (eds.) Norcross, GA: Institute of Industrial and Systems Engineers (IISE).
- [22] **Frisvold, G** (2009) Can transgenic crops and IPM be compatible? In *Dissemination of IPM technology: Theory and Practice*. R Peshin (ed.) New York: Springer-Verlag.
- [21] **Frisvold, G** (2008) Strategic behaviour in transboundary water and environmental management. In *Game Theory and Policy Making in Natural Resources and the Environment*. A Dinar, J Albiac, J Sánchez-Soriano (eds.) London: Routledge.
- [20] **Frisvold, G** & K Emerick (2008) Rural-urban water transfers with applications to the U.S.-Mexico border region. In *Game Theory and Policy Making in Natural Resources and the Environment*. A Dinar, J Albiac, & J Sanchez-Soriano (eds.) New York: Routledge Press.

- [19] **Frisvold, G**, R Tronstad, R Nichols, M Watson, & E Hequet. (2007). Scope and economic impact of sticky cotton In *Sticky Cotton: Causes, Impacts, and Prevention*. E Hequet, T Henneberry & R Nichols (eds.) Washington, DC: USDA Agricultural Research Service.
- [18] Morehouse, B, **G Frisvold**, & Bark-Hodgins (2007). How can tourism research benefit from multi-disciplinary assessments of climate change? Lessons from the US Southwest. In *Developments in Tourism Climatology*. A Matzarakis, CR de Freitas, & D Scott (eds.) Freiburg: Commission on Climate, Tourism and Recreation, International Society of Biometeorology.
- [17] **Frisvold, G** (2006) Bt resistance management: The economics of refuges. In *Economics of Regulation of Agricultural Biotechnologies*. R Just, D Zilberman, & J Alston (eds.) Norwell, MA: Springer.
- [16] **Frisvold, G**, P Wilson, & R Needham (2006) Implications of federal farm policy and state regulation for agricultural water use. In *Arizona Water Policy: Management Innovations in an Urbanizing, Arid Region*. B Colby & K Jacobs (eds.) Washington, DC: Resources for the Future Press.
- [15] **Frisvold, G**, R Tronstad, & J Reeves (2006) International impacts of Bt cotton adoption. In *International Trade and Policies for Genetically Modified Products*. R Evenson & V Santaniello (eds.) Wallingford, Oxfordshire, UK: CABI Publishing.
- [14] **Frisvold, G** (2005) Agriculture, federal farm programs and water use in the western United States. In *Negotiating Tribal Water Rights: Fulfilling Promises in the Arid West*. B Colby, J Thorson, & S Britton (eds.) Tucson: University of Arizona Press.
- [13] **Frisvold, G** & M Caswell (2002) Planning and financing water projects on the U.S-Mexico border: The Economics of Cooperation. In *Both Sides of the Border: Transboundary Environmental Management Issues Facing Mexico and the United States*. L Fernandez & R Carson (eds.) Boston: Kluwer Academic Publishers.
- [12] **Frisvold, G** & R Tronstad (2002) Economic impacts of Bt cotton adoption in the United States. In *Economic and Environmental Impacts of Agbiotech: A Global Perspective*. N Kalaitzandonakes (ed.) New York: Kluwer-Plenum Academic Publishers.
- [11] **Frisvold, G** & J Hillman (2002) Inspection, quarantine and quality control. *Encyclopedia of Life Support Systems*. New York: UNESCO.
- [10] Erda, L, C Clemente, **G Frisvold**, K Minami, O Doering, N Sampson, P Waggoner (2000) Agricultural sector. In *Methodological and Technological Issues in Technology Transfer: A Special Report of IPCC Working Group III*. B Metz, O Davidson, J Martens, S van Rooijen, & L McGrory (eds.) Cambridge: Cambridge University Press.
- [9] **Frisvold, G** & S Vogel (2000) Financing agricultural research with prior distortionary taxes and subsidies. In *Public-Private Collaboration in Agricultural Research*. K Fuglie & D Schimmelpfennig (eds.) Ames, IA: Iowa State University Press. 2000.
- [8] Leones, J & **G Frisvold** (2000) Park planning beyond park boundaries: A Grand Canyon case study. In *National Parks and Rural Development: Practice and Policy in the United States*. G Machlis & D Field (eds.) Washington, DC: Island Press.

- [7] Winters, P, R Murgai, A de Janvry, E Sadoulet, & **G Frisvold** (1999) Climate change and agriculture: Effects on developing countries. In *Global Environmental Change and Agriculture*. Frisvold, G & B Kuhn (eds.) Northampton, MA: Edward Elgar.
- [6] **Frisvold, G** & D Schimmelpfennig (1998) Potential for sustainability and self-enforcement of trans-boundary water agreements. In *Conflict and Cooperation on Trans-Boundary Water Resources*. R. Just and S. Netanyahu (eds.) Norwell, MA: Kluwer Academic Publishers
- [5] Just, R, **G Frisvold**, V Harrison, J Oppenheimer, & D. Zilberman (1998) Using Bargaining Theory and Economic Analysis as an Aid to Trans-boundary Water Cooperation. In *Conflict and Cooperation on Transboundary Water Resources*. R. Just & S. Netanyahu (eds.) Norwell, MA: Kluwer Academic Publishers.
- [4] **Frisvold, G** (1997) Multimarket effects of agricultural research with technological spillovers. In *Global Trade Analysis*. Tom Hertel (ed.) Cambridge: Cambridge University Press.
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