

Department of Agricultural Economics and Agricultural Business

New Mexico State University

Gerald Thomas Hall #382

940 College St., MSC 3169, Box 30003

Las Cruces, NM 88003-8003

575-646-2674 / bhurd@nmsu.edu / <http://agecon.nmsu.edu/bhurd>**WORK HISTORY**

- 2013-Present Professor, Department of Agricultural Economics and Agricultural Business, New Mexico State University, Las Cruces, NM
- 2007-2013 Associate Professor, Department of Agricultural Economics and Agricultural Business, New Mexico State University, Las Cruces, NM
- 2001-2007 Assistant Professor, Department of Agricultural Economics and Agricultural Business, New Mexico State University, Las Cruces, NM
- 1993-2001 Senior Associate, Stratus Consulting Inc., Boulder, CO
- 1992-1993 Visiting Lecturer, Department of Agricultural Economics, University of New England, Armidale, New South Wales, Australia
- 1990-1992 Post-Graduate Research Agricultural Economist, Department of Agricultural Economics, University of California, Davis, CA
- 1986-1990 Teaching and Research Assistant, Dept. of Agricultural Economics, UC Davis
- 1985-1986 Resource Economist, Energy and Resource Consultants, Inc., Boulder, CO
Research Associate, Center for Economic Analysis, Univ. of Colorado, Boulder

EDUCATION

- Ph.D. 1992 University of California, Davis. Agricultural Economics
Dissertation: *An Economic Evaluation of Integrated Pest Management and Pesticide Use in San Joaquin Valley Cotton*
Dissertation Committee: Julian Alston (chair), Richard Howitt, David Zilberman
- M.S. 1990 University of California, Davis, Agricultural Economics
- B.A. 1985 University of Colorado, Boulder. *Magna cum laude* and *Phi Beta Kappa*
Majors: Economics; and Environmental Conservation

PROFESSIONAL SERVICE AND AFFILIATIONS

- Universities Council on Water Resources (UCOWR)
Board of Directors (2007-2015), Board President (2013-2014), Conference Chair (2011-2012, "Managing Water, Energy & Food in an Uncertain World")
- Journal of Natural Resources Policy Research (JNRPR)
Associate Editor (2009-2011)
- USDA Regional Project: "Water Policy and Management Challenges in the West"
Co-PI (2001-present), Project Chair, Vice-Chair, Secretary (2002-2005)
- Membership American Water Resources Association (AWRA), American Agricultural Economics Association (AAEA), Western Agricultural Economics Association (WAEA), Association of Environmental and Resource Economists (AERE)

RESEARCH AREAS

Economics of climate change in water, food and agricultural systems
 Modeling of watersheds and hydro-economic-environmental systems

AWARDS AND HONORS

Mobley Family Endowed Distinguished Research Award, NMSU College of Agricultural, Consumer and Environmental Sciences, 2014
 Mentor in the “Service Learning for Women” program
 Asimenye Nthakomwa - a native of Malawi with a focus on enhancing food security through small container gardens, 2012
 Invited testimony before the United States Senate, Committee on Energy and Natural Resources: “Strengthening Adaptive Capacity and Community Preparedness for Adverse Climate Events, Variability and Changes,” 2011
 Graduate Regent-Intern Fellowship in Agricultural Economics, 1986-1988
 UC Davis, Distinguished Scholar Research Award, 1987
 CU Boulder, Val B. Fischer Award for Outstanding Achievement in the Social Sciences, 1985
 CU Boulder, Kim Wickholm Scholarship in Environmental Conservation, 1984
 Phi Beta Kappa Honor Society, 1984; Golden Key Honor Society, 1985
 CU Boulder Dean’s Scholarship, 1982-1985; CU Student Union Scholarship, 1984

Scholarship, Teaching, and Service

I. Publications

Summary of Publications and Professional Communications	
Type	Total
a. Refereed Journal Articles	30
b. Book Chapters	12
c. Peer-Reviewed Published Reports	13
d. Conference Proceedings	12
Total Publications	67
e. Technical Reports	29
f. Presentations and Posters	98

a. Refereed Journal Articles

30. Benjamin Turner, Vincent Tidwell, Alexander Fernald, José Rivera, Sylvia Rodriguez, Steven Guldan, Carlos Ochoa, Brian Hurd, Kenneth Boykin, and Andres Cibils. (2016). “Modeling Acequia Irrigation Systems Using System Dynamics: Model Development, Evaluation, and Sensitivity Analyses to Investigate Effects of Socio-Economic and Biophysical Feedbacks,” *Sustainability* 2016, 8, 1019; doi:10.3390/su8101019.
29. Fernald, A., Guldan, S., Boykin, K., Cibils, A., Gonzales, M., Hurd, B. H., Lopez, S., Ochoa, C. G., Ortiz, M., Rivera, J., Rodriguez, S., and Steele, C. M. (2015). Linked hydrologic and social systems that support resilience of traditional irrigation communities, *Hydrol. Earth Syst. Sci.* 19, 293-307, 2015. doi:10.5194/hess-19-293-2015.
28. Hurd, Brian and Christopher Lant (2013). Managing Water, Energy and Food in an Uncertain World. *Journal of Contemporary Research and Education*. Aug (151:1-2).
27. Rango, A., Fernald, A., Steele, C. M., Hurd, B. H., Ochoa, C. (2013). Acequias and the effects of climate change. *Journal of Contemporary Research and Education*. Aug (151:84-94).

26. Hurd, Brian (2012). "Climate Vulnerability and Adaptive Strategies along the Rio Grande/Rio Bravo Border of Mexico and the United States," *J. of Cont. Water Research and Education*. Dec (149:56-63).
25. Fernald, Alexander, Vincent Tidwell, Jose Rivera, Sylvia Rodriguez, Steven Guldán, Brian Hurd, Carlos Ochoa, Catriana Steele, Marquita Ortiz, Kenneth Boykin, Andres Cibils (2012), "Modeling Water, Environment, Livelihood, and Culture in Traditional Irrigation Communities and Their Linked Watersheds," *Journal of Sustainability*, ISSN 2071-1050, doi:10.3390/su40x000x.
24. Hurd, Brian, and Mani Rouhi-Rad (2012). "Estimating economic effects of changes in climate and water availability," *Climatic Change*, DOI:10.1007/s10584-012-0636-9.
23. Hurd, B. and J. Coonrod. 2012. "Hydrological and economic consequences of climate change in the Upper Rio Grande region," *Climate Research*, 53:103-118. doi: 10.3354/cr01092.
22. Mayagoitia, L., B. Hurd, J. Rivera, S. Guldán. 2012. "Rural Community Perspectives on Preparedness and Adaptation to Climate-Change and Demographic Pressure," *Journal of Contemporary Water Research and Education*. March (147:49-62).
21. Hurd, B. 2010. "Water-Conserving Attitudes and Landscape Choices in New Mexico," *Choices*. Fall 2010, 3rd Quarter, 25(3), pp: 1-6, <http://purl.umn.edu/95759>.
20. Hurd, B. 2009. Review of the book, *Water and Disasters* by Chennat Gopalakrishnan and Norio Okada (eds.), *Journal of Natural Resources Policy Research*, 1(1):120-122.
19. Hurd, B. 2008. "Coping and adapting to a changing climate: Concepts, issues and challenges," *Annals of Arid Zone*, 47(3&4): 221-231.
18. St. Hilaire, R., M. A. Arnold, D. A. Devitt, B. H. Hurd, B. J. Lesiker, V. I. Lohr, C. A. Martin, G. V. McDonald, R. L. Morris, D. R. Pittenger, D. A. Shaw, D. C. Wilkerson, and D. F. Zoldoske, 2008. "Efficient Water Use in Urban Landscapes," *HortScience*, 43(7):2081-2092.
17. Hurd and Coonrod, 2008. "Climate Change Risks New Mexico's Waterways: Its Byways and Its Flyways". *Water Resources Impact*, 10(4), pp 5-11.
16. Hurd, B. 2008. "Challenges of Adapting to a Changing Climate." *UCLA Journal of Environmental Policy*, 26, 77-92.
15. Alimova, N., Lillywhite, J., B.H. Hurd, E. Hadjigeorgalis. 2008. "High Desert Wine: A Discrete Choice Analysis of Consumer Preferences for New Mexican Wine," *Journal of Food Products Marketing*, 14(1), pp. 1-10.
14. Hurd, B.H. 2006. "Water Conservation and Residential Landscapes: Household Preferences, Household Choices," *Journal of Agricultural and Resource Economics*, Vol. 31, No. 2, pp. 173-192.
13. Hurd, B.H., C. Brown, J. Greenlee, A. Granados, and M. Hendrie, 2006. "Assessing Water Resource Vulnerability for Arid Watersheds: GIS-based Research in the Paso del Norte Region." *New Mexico Journal of Science*, Vol. 44 (Aug), pp. 39-61.
12. Granados-Olivas, A., C. Brown, J. Greenlee, B. Creel, J. Hawley, J. Kennedy, O. Dena-Ornelas, and B. Hurd. 2006. "Geographic Information Systems At the Paso Del Norte Region: The Academic Accomplishments and Challenges for a Transboundary Water GIS Cooperation," *New Mexico Journal of Science*, Vol. 44 (Aug), pp. 59-70.
11. Hurd, B.H., R. St-Hilaire, and J. White. 2006. "Residential Landscapes, Homeowner Attitudes and Water-Wise Choices in New Mexico," *HortTechnology*, 16(2): pp. 241-246.
10. Ward, F.A., B.H. Hurd, T. Rahmani, and N. Gollehon. 2006. "Economic impacts of federal policy responses to drought in the Rio Grande Basin," *Water Resources Research*, VOL. 42, W03420, doi:10.1029/2005WR004427, pp. 1-13.
9. Hurd, B.H. and J.M. Callaway with J.B. Smith and P.Kirshen. 2004. "Climatic Change and U.S. Water Resources: From Modeled Watershed Impacts to National Estimates," *Journal of the American Water Resources Association*. 40(1): 129-148.

8. Hurd, B.H. 2002. "Valuing Superfund Site Cleanup: Evidence of Recovering Stigmatized Property Values," *The Appraisal Journal*, 70(4): 426-437.
7. Hurd, B.H., N. Leary, R. Jones, and J.B. Smith. 1999. "Relative Regional Vulnerability of Water Resources to Climate Change." *Journal of the American Water Resources Association*, December, 35(6): 1399-1410.
Article twice reprinted:
(7a) United Nations, Economic and Social Commission for Asia and the Pacific, *Water Resources Journal*, March 2000, n. 204, pp. 17-28; and
(7b) *Water Resources and Climate Change*, Chapter 12, Ken Frederick (ed.), 2002, Edward Elgar Publishing, pp. 209-219.
6. Adams, R.M. and B.H. Hurd. 1999. "Climate Change and Agriculture: Some Regional Implications," *Choices*, American Agricultural Economics Association, Spring, pp. 22-23.
5. Adams, R.M., B.H. Hurd, S. Lenhart, and N. Leary. 1998. "Effects of Global Climate Change on Agriculture: An Interpretive Review." *Climate Research*, December, 11:19-30.
4. Raucher, R.S., J. Schramm, and B.H. Hurd. 1997. "Case Studies Using Economic and Institutional Analysis in Urban Environmental Management," *Hanyang Journal of Economic Studies*, November 18(2):199-228.
3. Hurd, B.H. 1994. "Yield Response and Production Risk: An Analysis of Integrated Pest Management in Cotton," *Journal of Agricultural and Resource Economics*, December 19(2):313-26.
2. Alston, J. and B.H. Hurd. 1992. "Some Neglected Social Costs of Government Spending in Farm Programs," *American Journal of Agricultural Economics*, 72 (1):149-56.
1. McClelland, G., W.D. Schulze, and B.H. Hurd. 1990. "The Effect of Risk Beliefs on Property Values: A Case Study of a Hazardous Waste Site," *Risk Analysis*, 10 (4):485-497.

b. Book Chapters

12. Hurd, Brian, and Laura Mayagoitia. Under development. "Acequia Perceptions of Vulnerability, Preparedness, and Adaptation Possibilities," Chapter 11, Guldan and Rosenberg.
11. Hurd, Brian. 2015. Concepts and Methods for Assessing Economic Impacts from Climate Change on Water Resources. In *The Handbook of Water Economics*, Ariel Dinar and Kurt Schwabe (eds.), Edward Elgar Publishers. DOI 10.4337/9781782549666. 515p.
10. Chebil, Ali, Brian H. Hurd, Nadhem Mtimet, Boubaker Dhehibi, Weslati Bilel. (2014). Economic Impact of Climate Change on Tunisian Agriculture: The Case of Wheat. In *Vulnerability of Agriculture, Water and Fisheries to Climate Change, Toward Sustainable Adaptation Strategies*, eds Mohamed Behnassi, Margaret Syomiti Muteng'e, Gopichandran Ramachandran, Kirit N. Shelat. Springer Netherlands. pp 119-130. DOI 10.1007/978-94-017-8962-2_8.
9. Frija, Aymen, Chebil, Ali, Hurd, Brian. 2012. "What Can the Tunisian Revolution Bring to Agricultural Water Sector Management in Tunisia?" in *Tunisia: Economic, Political and Social Issues*, eds. Matheux Pusatieri and Jihed Cannamela, ISBN 978-1-61942-157-8, Nova Science Publishers, Inc., New York. pp: 119-140.
8. McCarl, Bruce A., Brian H. Hurd, Siyi J. Feng, Amy D. Hagerman, Jian H. Mu, and Wei W. Wang. 2011. "Climate Change and Its Impact on Agriculture: Challenges for the 21st Century," Chapter 1 in (ed.) Cossia, Juliann M., *Global Warming in the 21st Century*, ISBN 978-1-61728-980-4, Nova Science Publishers, Inc., New York, pp: 1-40.
7. Loomis, J.B., J. Koteen, B.H. Hurd. 2003. "Economic and Institutional Strategies for Adapting to Water-Resource Effects of Climate Change," Chapter 15 in *Water and Climate in the Western United States*, W. Lewis Jr. (ed.), Univ. of Colorado Press, Boulder, CO, pp. 235-249.
6. Smith, J.B., J. Lazo, and B.H. Hurd. 2003. "The Difficulties of Estimating Global Non-Market Damages From Climate Change," Chapter 6 in *Global Climate Change: The Science, Economics, and Politics*, ed. James Griffin, Edward Elgar Publishing, pp: 114-139.

5. Adams, R.M. and B.H. Hurd. 2002. "Climate Change and Agriculture," in *Natural Resource System Challenge: Climate Change, Human Systems and Policy*, Antoaneta Yotova (ed.), in Encyclopedia of Life Support Systems (EOLSS), Developed under the auspices of the UNESCO, EOLSS Publishers, Oxford, UK, [<http://www.eolss.net>].
4. Hurd, B.H. and M. Harrod. 2001. "Water Resources: Economic Analysis," Chapter 5 in *Global Warming and the American Economy: A Regional Assessment of Climate Change Impacts*, Robert Mendelsohn (ed.), Edward Elgar Publishing, pp: 106-131.
3. Adams, R.M., B.H. Hurd, and J. Reilly. 2001. "Impacts on the U.S. Agricultural Sector," Chapter 3 in *Climate Change: Science, Strategies, and Solutions*, Eileen Claussen, Vicki Arroyo Cochran, Debra Davis, (eds.), Pew Center on Global Climate Change, Arlington, VA, pp. 25-42.
2. Hurd, B.H., J.M. Callaway, J.B. Smith, and P. Kirshen. 1999. "Economic Effects of Climate Change on U.S. Water Resources," Chapter 6 in *The Impact of Climate Change on the United States Economy*, Robert Mendelsohn and James E. Neumann (eds.), Cambridge University Press, Cambridge, pp:133-177.

Chapter also appears in:

(2a) *Water Resources and Climate Change*, Chapter 17, Ken Frederick (ed.), 2002, Edward Elgar Publishing, pp. 303-347.

1. Hurd, B.H. and R. Howitt. 1990. "California Agriculture in Transition: Technological Response to Environmental Regulation," Chapter 4 in *Economic Perspectives on Pesticide Use in California*, David Zilberman and Jerome Siebert (eds.), Univ. of California, Berkeley, CA, pp: 62-77.

c. Peer-Reviewed Published Reports

13. Hurd, Brian H., Christopher Goemans, George Frisvold, and Janine Stone. 2011. *Estimated Impacts of Climate Change Legislation on New Mexico Agriculture*, New Mexico State University, Agricultural Experiment Station, Bulletin 801, Las Cruces, NM. 12 p.
12. Hurd, Brian H., Christopher Goemans, George Frisvold, and Janine Stone. 2010. *Impacts of Climate Change Legislation on Agriculture in the Rocky Mountain States: Arizona, Colorado and New Mexico*, White Paper published by the American Farmland Trust, 43 p.
11. Hurd, B.H. and J. Coonrod. 2008. *Climate Change and Its Implications for New Mexico's Water Resources and Economic Opportunities*, New Mexico State University, Agricultural Experiment Station, Technical Report 45, Las Cruces, NM. 28 p.
10. Hurd, B.H. and J. Coonrod. 2007. *Climate Change and Its Implications for New Mexico's Water Resources and Economic Opportunities*. Prepared for the National Commission on Energy Policy, New Mexico State University, Las Cruces, NM. 46 p.
9. Hurd, B. H., A. Torell, and K. C. McDaniel. 2007. *Perspectives on Rangeland Management: Stocking Rates, Seasonal Forecasts, and the Value of Weather Information to New Mexico Ranchers*. New Mexico State University. Agr. Exp. Sta. Research Report Research Report 759. 8 p. Available at: http://aces.nmsu.edu/pubs/research/livestock_range/RR-759.pdf.
8. Hurd, B.H. and J. Smith. 2005. *Landscape Attitudes and Choices: A Survey of New Mexico Homeowners*. Water Task Force Report 5, College of Agriculture and Home Economics, New Mexico State University, Las Cruces, NM. 60 p.
7. Raucher, R., R. Linsky, E. Means, B. Hurd, J. Goldstein, A. Huber-Lee, M. Renwick et al. 2005. *The Value of Water: Concepts, Estimates, and Applications for Water Managers*. AWWA Research Foundation, Denver, CO.
6. Malone, Elizabeth L. Joel B. Smith, Antoinette. L. Brenkert, Brian H. Hurd, Richard H. Moss, and Daniel Bouille. 2004. *Developing Socioeconomic Scenarios: For Use in Vulnerability and Adaptation Assessments*. United Nations Development Program (UNDP), Global Environment Facility, NY. 48 p.
5. Easterling, W.E., B.H. Hurd, and J.B. Smith. 2004. *Coping With Climatic Change: The Role of Adaptation in*

the United States, Pew Center on Global Climate Change, Arlington, VA. 40 p.

4. Jorgenson, D. Goettle, R., B.H. Hurd, J. Smith, L. Chestnut, D. Mills. 2004. *Market Consequences and Climate Change: A U.S. Perspective*, Pew Center on Global Climate Change, Arlington, VA. 67 p.
3. Adams, R.M., B.H. Hurd, and J. Reilly. 1999. *Agriculture and Global Climate Change: A Review of Impacts to U.S. Agricultural Resources*. Pew Center on Global Climate Change, Arlington, VA. 36 p.
2. Archibald, S., B.H. Hurd, and R. Marsh. 1988. "Perspectives of Chemical Manufacturers," in *Regulating Chemicals: A Public Policy Quandary. Report of the 1987-88 Study Group on Chemicals in the Human Food Chain: Sources, Options and Public Policy*. Univ. of California Agricultural Issues Center. 174p.
1. Dowling, N., S. Archibald, B.H. Hurd, and A. Fan. 1988. "Perspectives of the Risk Assessment Community," in *Regulating Chemicals: A Public Policy Quandary. Report of the 1987-88 Study Group on Chemicals in the Human Food Chain: Sources, Options, and Public Policy*. Univ. of CA Agricultural Issues Center. 174p.

d. Conference Proceedings (articles and abstracts)

12. Alexander Fernald, Jose Rivera, Sylvia Rodriguez, Vince Tidwell, Andres Cibils, Ken Boykin, Brian Hurd, Carlos Ochoa, Quita Ortiz, and Steve Guldán. "Connectivity as the basis for quantifying resilience of coupled hydrologic and human systems in traditional irrigation communities," Irrigation conference, Valencia, Spain, Sept 2014.
11. Torell, L. A., McDaniel, K. C., Hurd, B. H. (2012). The Potential Effect of Climate Change on Forage Production in the Southwest (vol. 0009). Denver, CO: Abstracts of the 65th Annual Meeting of the Society for Range Management, 2012, Spokane, WA.
10. Hurd, B. and P. Ghosh. 2008. Valuing Groundwater Resources in Arid Watersheds under Climate Change: A Framework and Estimates for the Upper Rio Grande, Proceedings of the Western Agricultural Economics Association Annual Meeting, Big Sky, MT, June.
9. L. Allen Torell, Kirk C. McDaniel, Brian H. Hurd, and Shad Cox. 2008. Using Soil Moisture to Estimate the Economic Value of Rainfall Events for Range Forage Production, Proceedings, Corona Range and Livestock Research Center – 2008 Field Day. Pp 5.
8. Torell, L.A., K.C. McDaniel, and B.H. Hurd. 2008. Using Soil Moisture to Estimate the Economic Value of Rainfall Events for Range Forage Production. 2008 Society for Range Management Meetings, Louisville, KY, January 30. Abstr. No. 1790.
7. Hurd, B.H. and J. Coonrod. 2007. Climate Change and Its Implications for New Mexico's Water Resources and Economic Opportunities, New Mexico Water Resources Research Institute, 52nd Annual New Mexico Water Conference, p. 33.
6. Rango, A., E. Vivoni, D. Gutzler, B. Hurd, and S. Bestelmeyer. 2007. Future Climate Change Impacts on New Mexico's Mountain Sources of Water, New Mexico Water Resources Research Institute, 52nd Annual New Mexico Water Conference, p. 11.
5. Brown, C.B., A. Granados, J. Greenlee, M. Hendrie, and B. Hurd. 2004. "Vulnerability of Borderland Water Resources: Developing Indicators for Selected Watersheds on the U.S. Mexico Border – The Paso del Norte Region," Annual Meeting of the Universities Council on Water Resources (UCOWR), Portland, Oregon, 20-24 July 2004.
4. Hurd, B.H., J.A. Diemer and R.C. Alvarez. 2003. "Enhancing the Nation's Response to Public Water Supply Catastrophes," Proceedings of Water Security in the 21st Century, jointly sponsored by the Universities Council on Water Resources (UCOWR), National Institute of Water Resources (NIWR), and Environmental and Water Resource Institute (EWRI), Washington D.C. July 30-August 1, 2003.
3. Hurd, B.H., Frank A. Ward, and Leeann DeMouche. 2002. "Some Perspectives on the Economics of Surface- and Ground-Water Adjudication," in *Ground Water/Surface Water Interactions*. AWRA 2002, Kenny, Jerry F. (ed.), American Water Resources Association, Middleburg, VA, TPS-02-2, pp: 91-96.
2. Booker, J.F., B.H. Hurd, J.M. Callaway, and J.B. Smith. 1997. "Basin Modeling to Estimate Economic

Impacts of Climate Change,” American Water Resources Association Annual Proceedings. June.

1. Hurd, B.H., P. Kirshen, and J.M. Callaway. 1996. “Modeling Climate Change Impacts on Water Resources,” North American Water and Environment Congress ’96, Proceedings. American Society of Civil Engineers. June.

e. Technical Reports

29. Hurd, Brian H., L. Allen Torell, and Kirk C. McDaniel. 2007. Ranch and Rangeland Management: Perspectives of the Rangeland Economy and its Relationship to Weather Information, Report to the National Oceanic and Atmospheric Associate (NOAA), June 5, 2007.
28. Torell, L. Allen, Kirk C. McDaniel, and Brian H. Hurd. 2007. Exploratory Case Study on the Value of Improving Soil Moisture Forecast Information for Rangeland Management, Report to the National Oceanic and Atmospheric Associate (NOAA), June 5, 2007.
27. Brown, Christopher, Alfredo Granados, Janet Greenlee, Brian Hurd. 2007. Vulnerability of Borderland Water Resources: Developing Indicators for Selected Watersheds on the U.S. Mexico Border – The Paso Del Norte Region. Technical Report prepared for the Southwest Consortium for Environmental Research and Policy (SCERP). Project Report #W-03-02, New Mexico State University.
26. Ward, F.A., B.H. Hurd, and T. Rahmani. 2004. Effects of Water Supply Adjustments on Farm Returns and Resource Use: Findings from the Rio Grande Basin in Designing Federal Insurance Programs, Report to the USDA, Economic Research Service under Cooperative Agreement 43-3AEL-2-80125, December 2004.
25. Hurd. 2002. Exploring the Concepts and Issues Concerning Water Supply Reliability, Report prepared for Dianne Hawke, Esq. and California Bay-Delta Assessment. June 7, 2002.
24. Malone, E., A. Brenkert, B.H. Hurd, J.B. Smith, and R. Moss. 2001. Developing Socioeconomic Scenarios: For Use in Vulnerability and Adaptation Assessments. National Communications Support Programme, Global Environment Facility, May 18, 2001.
23. Repetto, R. and B.H. Hurd. 2001. Climate Protection Policy with a Distorted Tax Structure, Prepared under U.S. EPA Contract #68-W6-0055, Office of Atmospheric Programs, May 10, 2001.
22. Hurd, B.H., B. Raucher, E. Strange, and M. Hagenstad. 2000. Measuring the Economic Benefits of Reduced Atmospheric Deposition of Nitrogen on U.S. Estuaries: Conceptualizing a Modeling Platform, Prepared under U.S. EPA Contract #68-W6-0055, Office of Air Quality Planning. May 26, 2000.
21. Hurd, B.H., M. Harrod, and T. Ottem. 2000. An Annotated Summary of Climate Change Related Resources, Prepared under U.S. EPA Contract #68-W6-0055, Office of Economy and Environment. EPA 236-B-00-001. Washington D.C.
20. Hurd, B.H., J.B. Smith, R. Jones, and K. Spiecker. 1999. Water and Climate Change: A National Assessment of Regional Vulnerability. Prepared under U.S. EPA Contract #68-W6-0055, Office and Economy and Environment. Final. May.
19. Hurd, B.H., K. Spiecker, and S. Lenhart. 1997. Possible Changes in Downstream Uses of the Pigeon River as a Result of Water Quality Improvement. Prepared under U.S. EPA Contract #68-C4-0060, Office of Water. May.
18. Hurd, B.H., B. Raucher, G. Pitts, T. Ottem, R. Bishop, M. Hannemann, and D. Burmaster. 1997. Analysis of Uncertain Regulatory Benefits and Costs: Assessing the Conceptual and Empirical Issues. Prepared under U.S. EPA Contract #68-W6-0055, Office of Economy and Environment. August.
17. Hurd, B.H., S. Lenhart, and S. Ragland. 1997. Impacts of Global Climate Change on World Agriculture. Prepared under U.S. EPA Contract #68-W6-0055, Office of Economy and Environment. August.
16. Raucher, R., B.H. Hurd, and J. Bakkes. 1996. The Water Use Life Cycle in Jeddah: Toward a Full Social Cost Accounting. Developed for The World Bank in cooperation with the Meteorology and Environmental Protection Administration (MEPA) of the Kingdom of Saudi Arabia. July.

15. Hurd, B.H., J.M. Callaway, P. Kirshen, and J.B. Smith. 1996. Economic Effects of Climate Change on U.S. Water Resources. Prepared for the Electric Power Research Institute. June.
14. Hurd, B.H., J.M. Callaway, B.A. McCarl, and D. Adams. 1996. A Comparative Analysis of Two Models of the U.S. Forest Sector: TAMM/ATLAS and FASOM. Prepared for ICF, Inc. and U.S. EPA, Office of Policy Analysis. May.
13. Hurd, B.H. and J.M. Callaway. 1996. Economic Impacts of Climate Change on U.S. Agriculture and Forestry: Draft Project Research Plan. Prepared for U.S. EPA, Office of Policy, Planning, and Evaluation, and ICF Inc., February.
12. Hurd, B.H., J.M. Callaway, G. Pitts, and B.A. McCarl. 1995. Analysis of Impacts of Simulated Farm Program and Biofuel Scenarios on the Forest and Agricultural Sectors, Using the Forest and Agricultural Sector Model (Dec. 1995) and Analysis of Simulated Farm Program Impacts Using the Agricultural Sector Portion of the Forest and Agricultural Sector Model (March 1996). With Mac Callaway and Bruce McCarl, prepared for ICF, Inc. and U.S. EPA, Office of Policy Analysis. December.
11. Schulze, W.D., G. McClelland, M. Doane, E. Balistreri, R. Boyce, B.H. Hurd, and R. Simenauer. 1995. An Evaluation of Public Preferences for Superfund Site Cleanup: A Preliminary Assessment. Prepared for the U.S. EPA under Cooperative Agreement #CR-21980. March.
10. Smith, J.B., S. Ragland, B.H. Hurd, D. Doyle, and S. Lenhart. 1995. Estimated Cost Savings from Land Use Designations at Office of Environmental Management Sites. Prepared for U.S. Department of Energy, Office of Environmental Management, Office of Policy. September.
9. Chestnut, L., B.H. Hurd, and C. Lang. 1993. The Health Effects and Health Costs in Melbourne Due to Motor Vehicle-Sourced Ozone and Air Toxics. RCG/Hagler Bailly report prepared for the Environmental Protection Authority (Victoria), Melbourne, Victoria, Australia. October.
8. Rutherford, T. and B.H. Hurd. 1993. Load Shifting and Carbon Emissions in the U.S. Electric Industry. Prepared for U.S. EPA Office of Policy Assessment under Cooperative Agreement #CR-815183. July.
7. Johnston, W. and B.H. Hurd. 1987. Ecological Problems Associated with Agricultural Development: Some Examples from the United States, Prepared for a conference on Ecological Research and Environmental Protection, Krakow, Poland. October.
6. McClelland, G., W. Schulze, D. Coursey, J. Irwin, B.H. Hurd, and R. Boyce. 1987. Risk Communication for Superfund Sites: An Analysis of Problems and Objectives. Prepared for U.S. EPA, cooperative agreement #CR812054-02, University of Colorado, Boulder.
5. Peterson, D., R. Rowe, W. Schulze, G. Russell, R. Boyce, B. Hurd, and S. Elliot. 1987. Improving Accuracy and Reducing Costs of Environmental Benefit Assessments: Valuation of Visual Forest Damages from Ozone (draft). Prepared for U.S. EPA, Washington D.C. by Energy and Resource Consultants, Boulder, CO, and Center for Economic Analysis, University of Colorado, Boulder. U.S. EPA Cooperative Agreement #CR812054-02.
4. Rowe, R., W. Schulze, and B.H. Hurd. 1986. A Survey of Colorado Residents' Attitudes about Cleaning Up Hazardous Waste Site Problems in Colorado. Prepared for Colorado Attorney General by Energy and Resource Consultants Inc., Boulder, CO.
3. Rowe, R., W. Schulze, D. Orr, and B.H. Hurd. 1985. Economic Assessment of Damage Related to the Eagle Mine Facility. Prepared for the State of Colorado by Energy and Resource Consultants Inc., Boulder, CO.
2. Schulze, W., G. McClelland, B.H. Hurd, and J. Smith. 1985. A Case Study of a Hazardous Waste Site: Perspectives from Economics and Psychology, In Improving Accuracy and Reducing Costs of Environmental Benefit Assessments, Volume IV. Prepared for U.S. EPA. Center of Economic Analysis, University of Colorado, Boulder, CO.
1. Hurd, B.H. 1985. Funding a State Hazardous Waste Superfund, Honors Thesis, Department of Economics, University of Colorado, Boulder. April.

f. Recent Presentations and Posters (since 2012)

98. Xu, Pei, Phil King, John W. Hawley, Brian Hurd, KC Carroll, David Johnson, Xuesong Xu, Alfredo Rodriguez. 2018. "Assessing the Potential for Desalination of Brackish Water for Municipal and Industrial Supply." Two Nations, One Water: US-Mexico Border Water Summit. El Paso, Tx, March 1-2, 2018.
97. Hurd, Brian. Pei Xu, K.C. Carroll, Phil King. 2017. "Valuing the Potential Contribution of Desalination and Water Reuse to the Water Supply Portfolio of Southern Doña Ana County, New Mexico." Workshop on Development and Use of Alternative Water Supplies, U.S. Bureau of Reclamation and New Mexico Water Resources Research Institute, Las Cruces, NM. October 24, 2017.
96. Hurd, Brian, and Prasenjit Ghosh. 2017. "Valuing Groundwater Resources in Arid Watersheds under Climate Change: A Framework and Estimates for the Upper Rio Grande," Presented at the Universities Council on Water Resources (UCOWR) and National Institutes for Water Resources (NIWR) Annual Water Resources Conference, Ft. Collins, CO, 15-17 June 2017.
95. Hurd, Brian. 2016. "Climate Change Vulnerability and Adaptive Strategies for Water Resources Along the Mexico / U.S. Border/Vulnerabilidad al cambio climático y estrategias de adaptación de los recursos hídricos, a lo largo de la frontera entre México y Estados Unidos." New Mexico State University Extension Climate Change Training Mexico Arid Lands Areas Climate Hub. Dec 5-9, 2016, Las Cruces, NM.
94. Hurd, Brian, and Carlos Silva. 2016. "Changes in Irrigation Water-Use Efficiency and the Implication for Value-Based Water Prices." Departmental Seminar Series, Agricultural Economics and Agricultural Business, New Mexico State University, Las Cruces, NM. Nov 4, 2016.
93. Hurd, Brian. 2016. "A Spreadsheet Approach to Understanding Hydro-Economic Models," Presented at the Universities Council on Water Resources (UCOWR) and National Institutes for Water Resources (NIWR) Annual Water Resources Conference, Pensacola, FL, 21-23 June 2016.
92. Hurd, Brian. 2016. "Aspects of the Economic Impacts of Climate Change in the Paso del Norte Region," Presented at the Paso del Norte Water Task Force (PDN WTF) Workshop: "Preparing for Less Water in the Paso del Norte," University of Texas at El Paso, 20 May 2016, invited.
91. Hurd, Brian. 2016. "Climate Change Adaptation Challenges in Small Community Irrigation (Acequia) Systems," 18th Biennial Seminar on Water Resources and Environmental Management, March 15, 2016 University of Concepción, Concepción, Chile, invited.
90. Hurd, Brian. 2015. Groundwater Showdown on the Rio Grande: Summary and Perspectives on Texas v. New Mexico," Center for Environmental Management and Department of Economics, Sept. 15, El Paso, Texas. Invited.
89. Hurd, Brian. 2015. "A Global View on Climate Change and Water and Food Security Challenges," Santa Fe World Affairs Forum, April 21, Santa Fe, NM. Invited.
88. Hurd, Brian, Ari Michelsen, Tiffany Dowell, Zhuping Sheng, and Ron Lacewell. 2015. "Summary and Perspectives on Texas v. New Mexico: Groundwater Showdown on the Rio Grande." New Mexico Crop Producers Association Annual Meeting, invited, Jan. 26, 2015.
87. Michelsen, Ari M., Tiffany Dowell, Zhuping Sheng, Ronald Lacewell, and Brian Hurd. (2014). "Texas v. New Mexico Supreme Court Water Case: Issues, Process and Interpretation," Presented at the American Water Resources Association Annual Conference, Vienna, VA, Nov. 3-6, 2014.
86. Hurd, Brian H. (2014). "Concepts and Methods for Assessing and Evaluating Water System Response to Climate Change." Presented at the 3rd regional workshop Capacity Building Programme on the Economics of Climate Change Adaptation (ECCA), Siem Reap, Cambodia, Sept 17-20, 2014. <http://www.undp-alm.org/resources/programme-related-events/> . Invited.
85. Hurd, Brian H. (2014). "Concepts and Methods for Assessing Water Sector Responses to Climate Change," Presented at the European Summer School Workshop on the Economics of Adaptation to Climate Change, Venice, Italy, July 6-12, 2014. Invited.
84. Hurd, Brian H. (2014). "Texas v New Mexico: A Summary of Non-Texan (or a Non-Texan Summary)

- Positions and Perspectives,” Presented at the Universities Council on Water Resources Annual Conference, Water Systems, Science, and Society Under Global Change, Tufts Univ., Medford, MA, June 18-20, 2014.
83. Hurd, Brian H. (2013). “Climate vulnerability and adaptive strategies along the Rio Grande,” Presented at the Universities Council on Water Resources Annual Conference, Sustaining Water Resources and Ecological Functions in Changing Environments, South Lake Tahoe, CA, June 12, 2013.
82. Hurd, Brian H. (2013). Lectures on Water Resources and Climate Change. Presented at the first regional workshop titled "Assessing Costs and Benefits of Adaptation: Methods and Data" for the Capacity Building Programme on the Economics of Climate Change Adaptation. Bangkok, Thailand, Mar 11-15, 2013. <http://www.undp-alm.org/resources/programme-related-events/first-regional-training-workshop-11-14-mar-2013>
81. Hurd, Brian H. (2013). “Acequia Perspectives on Climate-Change and Population Growth and the Perspectives of Preparedness and Adaptation,” Presented at the Symposium and Workshop: Acequias and the Future of Resilience in Global Perspective, Session 2: Data Integration and Modeling the Interplay of Social, Cultural, Economic, and Environmental Factors in an Acequia Community. Las Cruces, NM, Mar 2, 2013.
80. Fernald, A., Tidwell, V. C., Rivera, J., Rodriguez, S., Guldán, S. J., Steele, C. M., Ochoa, C., Hurd, B. H., Ortiz, M., Boykin, K. G., Cibils, A. F. (2012). “Modeling Water, Ecosystems, Economics and Culture in Traditional Acequia Irrigation Communities of New Mexico and Their Linked Watersheds.” Presented to the American Geophysical Union Fall Meeting H14F-03, San Francisco, Dec. 3-7, 2012.
79. Ochoa, C., Tidwell, V., Fernald, A., Guldán, S. J., Hurd, B. H., Rivera, J., Rodriguez, S., Steele, C., Wilson, J. (2012). "A System Dynamics Approach for Looking at the Human and Environmental Interactions of Community-based Irrigation Systems in New Mexico," Presented to the American Geophysical Union Fall Meeting. San Francisco, Dec. 3-7, 2012.
78. Hurd, Brian H. (2012). “Finding a Balance between Agricultural, Urban and Environmental Water Uses.” Seminar given to the Santa Fe County Extension and the Western Region Sustainable Agriculture and Education Program (WSARE), Water: The Foundation of Agricultural Sustainability Conference, Santa Fe, NM, Aug 7, 2012. Invited.
77. Guldán, S. J., Fernald, A., Tidwell, V., Rivera, J., Rodriguez, S., Steele, C. M., Ochoa, C., Hurd, B. H., Ortiz, M., Boykin, K. G., Cibils, A. F. (2012). "Multiperspective Analysis of Community Resilience To Changing Water Supplies For Traditional Irrigation Systems In Northern New Mexico." Presented at the Universities Council on Water Resources Annual Conference, Managing Water, Energy, and Food in an Uncertain World, Santa Fe, NM, July 17, 2012.
76. Rango, Albert, Alexander Fernald, Caitriana Steele, Brian Hurd, and Carlos Ochoa. (2012). “Acequias and the Effects of Climate Change.” Presented at the Universities Council on Water Resources Annual Conference, Presented at the Universities Council on Water Resources Annual Conference, Managing Water, Energy, and Food in an Uncertain World, Santa Fe, NM, July 17, 2012.
75. Rouhi-Rad, Mani and Brian Hurd. (2012). “Climate Change Impacts and Adaptation on Water Resources and Agricultural Diversity of the Upper Rio Grande Watershed.” Presented at the Universities Council on Water Resources Annual Conference, Managing Water, Energy, and Food in an Uncertain World, Santa Fe, NM, July 17, 2012.
74. Hurd, Brian H. (2012). “Assessing and Adapting Water Resource Systems to Climate Variability and Change, What Have We Learned and Where are We Going?” Seminar given to the Water Science and Policy Center, UC Riverside, March 22, 2012. Invited.
- 1-73. Descriptions of presentations available at: <https://wordpress.nmsu.edu/bhurd/>

II. International Service, Projects and Activities

Siem Reap, Cambodia (Sept 2014)

Lectures on Water Resources and Climate Change. Presented at the third regional workshop titled "Assessing Costs and Benefits of Adaptation: Methods and Data" for the Capacity Building Programme on the Economics of Climate Change Adaptation. 17-20 Sept 2014.

Venice, Italy. (July 2014)

Concepts and Methods for Assessing Water Sector Responses to Climate Change. European Association of Environmental and Resource Economists (EAERE), Fondazioni Eni Enrico Mattei (FEEM), Venice International University (VIU), European Summer School on The Economics of Adaptation to Climate Change. Venice, Italy, 6 July - 12 July 2014.

Bangkok, Thailand (March 2013).

Water Resources and Climate Change. Presented at the first regional workshop titled "Assessing Costs and Benefits of Adaptation: Methods and Data" for the Capacity Building Programme on the Economics of Climate Change Adaptation. Bangkok, Thailand, Mar 11-15, 2013. <http://www.undp-alm.org/resources/programme-related-events/first-regional-training-workshop-11-14-mar-2013>

Chihuahua, Mexico, (Aug 2011).

Invited presentation at the Expo-Agro, Internacional, Cuarto Foro de Agua. Hurd, Brian H. and Laura Mayagoitia. (2011). "Adapting Water Resources along the Upper Rio Grande and its Acequia Communities to the Challenges of Climate Change," Ciudad Chihuahua, Mexico. Aug 11, 2011.

Querétaro, Mexico, (May 2011).

Invited presentation at the conference on La Importancia de la Hidrometeorología en el entorno Económico - Social Hurd, Brian H. (2011). "Climate Change Vulnerability and Adaptive Strategies for Water Resources Along the Mexico / U.S. Border," Querétaro, MX, May 19-20, 2011.

Zaragoza, Spain (2005, 2007, 2009, 2011).

Natural Resource Economics: Renewable Resources – Water

Short-course invited to conduct course to an audience of European, Middle Eastern, African, and South American students and professionals at the Centro Internacional de Altos Estudios Agronomicos Mediterraneos (CIHEAM), Mediterranean Agronomic Institute of Zaragoza, Zaragoza, Spain, Jan. 24-Feb 5, 2005. January 17-19, 2007. February 17-19, 2009. February 9-11, 2011.

Zaragoza, Spain (Feb 2003).

Renewable Resources: Water and Land.

Short-course lecture series presented at the short-course on Economics of Natural Resources at the Centro Internacional de Altos Estudios Agronomicos Mediterraneos (CIHEAM), Instituto Agronomico Mediterraneo de Zaragoza, Zaragoza, Spain, February 17-28, 2003.

Trieste, Italy (Nov 2001).

Vulnerability and Economic Impacts of Climate Change on Mediterranean Water Resources: Lessons from U.S., Short-course for the Advanced Course on Climate Change in the Mediterranean Region: Socio-Economic Aspects and Impacts Studies at the Abdus Salam International Centre for Theoretical Physics, Trieste, Italy, November 12-16, 2001.

Dakar, Senegal (July 2000)

U.S. Agency for International Development and the U.S. Country Studies Program supported program to provide technical training, support, and training materials to representatives of West and Central African nations regarding climate change assessment methods, July 25-27, 2000.

Manila, Philippines, (Dec. 1999)

U.S. Country Studies Program and Asian Development Bank program in which I was asked to organize and chair a session on the development of climate change action plans, Dec. 7-10, 1999.

Tunis, Tunisia, (June 1999)

Stockholm Environment Institute and the Tunisian Ministry of Environment and Land Use Planning sponsored a program in which I provided technical support on the methods of climate change assessment, *June 7-11, 1999*.

Jeddah, Saudi Arabia, (June 1996)

World Bank and Meteorology and Environmental Protection Administration (MEPA) of the Kingdom of Saudi Arabia (MEPA) sponsored a program in which I provided on-site assistance in applied environmental economics, June 10-20, 1996.

Melbourne, Victoria, Australia (1993)

Department of Conservation and Natural Resources, Victoria, Australia sponsored a study in which I participated in assessing and estimating the health effects and health costs due to motor vehicle emissions.

Armidale, New South Wales, Australia, (Jan-Dec 1992)

Visiting Lecturer at the Key Centre in Agricultural Economics, University of New England, in the Department of Agricultural Economics, where I taught graduate and undergraduate course in "Advanced Agricultural Policy and Price Analysis" and "Natural Resource Economics."

III. Selected Projects and Assignments

National Commission on Energy Policy

Study on the economics effects of climate change on New Mexico's Water Resources 2006-2007.

National Oceanic and Atmospheric Association

Study on the value of improved weather forecasts for rangeland management of livestock producers, 2006-2007.

American Water Works Association Research Foundation

Value of water in agriculture and served as an expert on a Nation Water Resources Institute workshop on the Value of Water, 2003-2003.

United States Geological Survey

Issues and concepts relating to water supply reliability in the California Bay-Delta program (2002)

U.S. Environmental Protection Agency

- Land Use Change, Forestry, and Agriculture Economic Modeling Forum (2001)
 - The Economics of Alternative Revenue Recycling Options (2000-2001)
 - Measurement of Economic and Environmental Benefits from Reduced Deposition of Airborne Nitrogen to Estuaries in the Eastern U.S. (1999-2000)
 - Technical Support for Assessing Land Use, Land Use Change, and Forests under the Kyoto Protocol (1999-2000)
 - Develop a Resource Guide of Climate Change Resources (1999)
 - Develop Climate Change Discussion Series Summaries (1999)
 - Water Pollution Control Costs: Effects of Global Climate Change in Selected Watersheds (1997-1999)
 - Water and Climate Change: Regions of Vulnerability (1998-1999)
 - State Fact Sheets on Climate Change Impacts (1998)
 - Analysis of Uncertain Regulatory Benefits and Costs: Assessing the Conceptual and Empirical Issues (1997)
 - Assessment of the Impacts of Global Climate Change on International Agriculture (1997)
 - Economic Impacts of Climate Change on U.S. Agriculture and Forestry (1996)
 - Impacts Analysis of Alternative Farm Bill and Biofuel Policies Using the Forest and Agricultural Sector Model (1996)
 - Measuring Environmental Benefits: Assessing Public Preferences for Hazardous Waste Site Cleanup (1994-1995)
 - Modeling the Effect of Alternative Electricity Pricing Structures on CO₂ Emissions (1993-1994)
- U.S. Department of Energy
- Estimating the Cost Savings from Land Use Designations at Department of Energy Environmental Management Sites (1994)
- National Science Foundation (NSF) and the National Institute for Global Environmental Change (NIGEC)
- Land Use and Climate Change Impacts on Carbon Fluxes (1997-1999)
- Pew Center on Global Climate Change
- Development of Discussion Paper Series on Sector-Specific Impacts from Climate Change (1998-2003)
- Electric Power Research Institute (EPRI)
- Regional Analysis of Climate Change Effects on U.S. Water Resources (2001)
 - Analysis of Climate Change Effects on the Value of U.S. Water Resources (1996)
- United Nations Development Programme (UNDP)*
- Developing Socioeconomic Scenarios: For Use in Vulnerability and Adaptation Assessments (2001)