

## JOANNA ENDTER-WADA

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### EDUCATION

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- Ph.D. Program in Comparative Culture, School of Social Sciences, University of California at Irvine, 1987  
(Emphasis Areas: political economy; cultural anthropology; rural sociology; U.S. History)
- M.A. Program in Comparative Culture, School of Social Sciences, University of California at Irvine, 1979
- B.A. Comparative Culture and Mathematics, University of California, Irvine, 1977 (*summa cum laude*)  
(Music and Mathematics, Wittenberg University, Springfield, Ohio, 1972-1975, transferred)

### PROFESSIONAL EXPERIENCE

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#### **Faculty Member and Program Director**, Utah State University, 1991-present

##### Current Positions and Affiliations:

Director, National Environmental Policy Act Graduate Certificate Program (2002-present)  
Professor (2015- ) and Associate Professor (2002-2014), Dept. of Environment & Society  
Adjunct Professor, Department of Watershed Sciences (2002-present)  
Faculty Researcher, Center for Water Efficient Landscaping (2000-present)  
Affiliated Faculty Member, Ecology Center (2008-present)

##### Past Positions and Affiliations:

Faculty Researcher and Member of Management Team, iUTAH (2012-2017)  
Affiliated Faculty Member, Institute for Outdoor Recreation and Tourism (2002-2012)  
Director, Natural Resource and Environmental Policy Program (1991-2005)  
Associate Professor (1997-2002) and Assistant Professor (1991-1997), Dept. of Forest Resources  
Adjunct Faculty Member, Watershed Science Unit (1991-2002)  
Adjunct Faculty Member, Dept. of Sociology, Social Work and Anthropology (1991-2006)

#### **Research Consultant**, 1987-1992

Social Science Research Associates, Irvine, California (1990-1992)  
John Muir Institute for Environmental Studies, Inc. (1989-1991)  
Human Relations Area Files, Inc., Yale University (1989-1991)  
Rocky Mountain Social Science (1987-1988)  
Institute for Social Science Research on Natural Resources, Utah State University (1984)

#### **Post-Doctoral Fellow**, American Indian Studies Center, University of CA at Los Angeles, 1989-1990

#### **Teaching Assistant/Associate and Research Associate**, University of CA at Irvine, 1980-1985

### AREAS OF EXPERTISE

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- ♦ Water Policy
  - urban landscape water use efficiency and conservation
  - human dimensions of drought management and climate change
  - wetland policy and management
- ♦ Natural Resource and Environmental Policy
  - public land and common property resources
  - National Environmental Policy Act (NEPA)
- ♦ Human Dimensions of Ecosystem Science and Management
  - interdisciplinary perspectives on human-environment linkages
  - human ecology and human hydrology

## PROFESSIONAL ACTIVITIES AND AFFILIATIONS

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### Editorial Boards of Peer-Reviewed Journals

- Associate Editor (Water Policy & Planning), *Journal of American Water Resources Association*, 2016-
- Associate Editor, *Society and Natural Resources*, 1994-1997

### Appointed Positions on External Committees and Boards

- Co-Chair, Policy Committee, American Water Resources Association (2020-present)
- Member, Water Strategy Advisory Team, State of Utah, 2013-2017
- Chairperson, Utah Fish Health Policy Board, State of Utah, 1998-2006 (two 4-year appointed terms)
- Member, Enlibra Toolkit Board of Advisors, Oquirrh Institute, 2001-2003
- Chairperson, Utah Forest Practices Task Force, State of Utah, 1996
- Chairperson, Outer Continental Shelf Advisory Board Scientific Committee, Minerals Management Service, Department of Interior, United States Government, 1996-1998
- Member, Outer Continental Shelf Advisory Board Scientific Committee, Minerals Management Service, Department of Interior, United States Government, 1993-1999
- Member, Division of Forestry, Fire and State Lands Advisory Council, State of Utah, 1995-1998

### Current Professional Affiliations

- American Water Resources Association (AWRA)
- American Water Works Association (AWWA)
- Environmental Law Institute (ELI)
- National Association of Environmental Professionals (NAEP)
- Universities Council on Water Resources (UCOWR)

## PROFESSIONAL AWARDS AND HONORS

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- 2021 Quinney College of Natural Resources Faculty University Service Award
- 2018 Award for Outstanding Service in the Academic Sector, Utah Section of the American Water Resources Association
- 2016 AWRA Boggess Award, Best Paper of 2015 in the *Journal of the American Water Resources Association* (awarded at the Annual AWRA Conference, Orlando, FL, Nov. 16, 2016)
- 2014 Western Extension Directors Association Award of Excellence for faculty team of the Center for Water Efficient Landscaping (awarded at WEDA Annual Meeting, Lake Tahoe, CA)
- 2012 ESRI Award for Best Scientific Paper in Geographic Information Systems (awarded at Annual Conference of American Society for Photogrammetry and Remote Sensing, Sacramento, CA, 2012)
- 2009 Editors' Picks, *Environment: Science and Policy for Sustainable Development*, May/June Issue
- 1997 Society of American Foresters Certificate of Appreciation
- 1996 Utah Forest Stewardship Achievement Award

## CURRENT MAJOR PROGRAMS

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### WaterMAPS™ - Water Management Analysis and Planning Software (Program Lead)

WaterMAPS™ is a custom software application for promoting urban landscape water use efficiency. It was developed by a USU research team led by Dr. Joanna Endter-Wada. The software enables users to visualize and interpret the appropriateness of water use on managed urban landscapes. It was developed as an analytic, management, and public information tool for urban water systems. WaterMAPS™ helps urban water providers identify and monitor locations with the greatest capacity to conserve water used outdoors in order to more effectively direct and tailor landscape water conservation programs. The WaterMAPS™ team works with some of the largest water providers in Utah and has received several awards for excellence.

WEBSITE: <https://watermaps.usu.edu/>

## National Environmental Policy Act (NEPA) Graduate Certificate Program (Director)

This 12-unit graduate certificate program trains natural resource professionals in implementation of the National Environmental Policy Act (NEPA). NEPA is the U.S. environmental law that requires analysis of impacts, alternatives, and mitigation measures for all major federal actions affecting the environment, both within the territorial boundaries of the U.S. and at foreign military installations. Dr. Endter-Wada led the university effort to develop this program. Approved by the Utah Board of Regents in 2002, this highly successful program has become the premier nation-wide university graduate in this area of specialty. The program has 258 enrolled students and 157 graduates as of January 1, 2020.

WEBSITE: <https://qcnr.usu.edu/nepa/>

## SCHOLARLY PRODUCTS

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### ARTICLES

#### Peer-Reviewed and Professional Journals

- Endter-Wada, J., K.M. Kettenring, and A. Sutton-Grier. 2020. Protecting wetlands for people: Strategic policy action can help wetlands mitigate risks and enhance resilience. *Environmental Science and Policy* 108:37-44. <https://doi.org/10.1016/j.envsci.2020.01.016>
- Barnett, M.J., D. Jackson-Smith, J. Endter-Wada, M. Haeffner. 2020. A Multilevel Analysis of the Drivers of Household Water Consumption in a Semi-Arid Region. *Science of the Total Environment* 712:136489. <https://doi.org/10.1016/j.scitotenv.2019.136489>.
- Li, E., J. Endter-Wada, and S. Li. 2019. Dynamics of Utah's agricultural landscapes in response to urbanization: A comparison between irrigated and non-irrigated agricultural lands. *Applied Geography* 105:58-72. DOI: <https://doi.org/10.1016/j.apgeog.2019.02.006>
- Barnett, M.J., D. Jackson-Smith, and J. Endter-Wada. 2019. Implications of Nontraditional Housing Arrangements for Urban Water Management in the United States Intermountain West. *Society & Natural Resources*. DOI: <https://doi.org/10.1080/08941920.2018.1539200>
- Endter-Wada, J., K.M. Kettenring, and A.E. Sutton-Grier. 2018. Sustaining wetlands to mitigate disasters and protect people. Guest Editorial. *Frontiers in Ecology and the Environment* 16(8):431. DOI:10.1002/fee.1959
- Hale, R.L., C.G. Flint, D. Jackson-Smith, and J. Endter-Wada. 2018. Social Dimensions of Urban Flood Experience, Exposure, and Concern. *Journal of the American Water Resources Association* 54(5):1137-1150. DOI: 10.1111/1752-1688.12676
- Avolio, M., T. Trammel, D. Pataki and J. Endter-Wada. 2018. Biodiverse Cities: the Nursery Industry, Homeowners, and Neighborhood Differences Drive Urban Tree Composition. *Ecological Monographs* 88(2):259-276. DOI: 10.1002/ecm.1290.
- Welsh, L.W. and J. Endter-Wada. 2017. Policy Debates over the Southern Nevada Water Authority Groundwater Development Project: Beneficial Uses of Water in a Desert. *Journal of the Southwest* 59(1-2):302-337. [Part of a special double issue entitled "Ways of Knowing: Helen Ingram and Water Scholarship," with Guest Editor Margaret O. Wilder] DOI: 10.1353/jsw.2017.0014
- Welsh, L.W. and J. Endter-Wada. 2017. Piping Water from Rural Counties to Fuel Growth in Las Vegas, Nevada: Water Transfer Risks in the Arid USA West. *Water Alternatives* 10(2):420-436. [Part of a special issue entitled "The (Re)turn to Infrastructure for Water Management," with Guest Editors Britt Crow-Miller, Michael Webber and François Molle.] Article available at:

- <http://www.water-alternatives.org/index.php/alldoc/articles/vol10/v10issue2/362-a10-2-12/file>
- Flint, C.G., X. Dai, D. Jackson-Smith, J. Endter-Wada, S.K. Yeo, R. Hale, M.K. Dolan. 2017. Social and Geographic Contexts of Water Concerns in Utah. *Society and Natural Resources* 30(8):885-902. DOI: 10.1080/08941920.2016.1264653
- Li, E., S. Li, J. Endter-Wada. 2016. Water-Smart Growth Planning: Linking Water and Land in the Arid Urbanizing American West. *Journal of Environmental Planning and Management* 60(6):1056-1072. DOI: 10.1080/09640568.2016.1197106
- Jackson-Smith, D.B., P.A. Stoker, M. Buchert, J. Endter-Wada, C.V. Licon, M.S. Cannon, S. Li. 2016. Differentiating Urban Forms: A Neighborhood Typology for Understanding Urban Water Systems. *Cities and the Environment (CATE)* 9(1): Article 5. Article available at: <http://digitalcommons.lmu.edu/cate/vol9/iss1/5/>
- Burnham, M., Z. Ma, J. Endter-Wada, T. Bardsley. 2016. Water Management Decision Making in the Face of Multiple Forms of Uncertainty and Risk. *Journal of the American Water Resources Association (JAWRA)* 52(6):1366-1384. DOI: 10.1111/1752-1688.12459
- Li, E., J. Endter-Wada, S. Li. 2015. Characterizing and Contextualizing the Water Challenges of Megacities. *JAWRA Journal of American Water Resources Association* 51(3): 589-613. [This paper received the 2016 Boggess Award for Best Paper of 2015 in *JAWRA*]. DOI: 10.1111/1752-1688.12310
- Glenn, D.T., J. Endter-Wada, R.K. Kjelgren, C.M.U. Neale. 2015. Tools for Evaluating and Monitoring Effectiveness of Urban Landscape Water Conservation Interventions and Programs. *Landscape and Urban Planning* 139:82-93. DOI: 10.1016/j.landurbplan.2015.03.002
- Hale, R.L., A. Armstrong, M.A. Baker, S. Bedingfield, D. Betts, C. Buahin, M. Buchert, T. Crowl, R.R. Dupont, J.R. Ehleringer, J. Endter-Wada, C. Flint, J. Grant, S. Hanners, J.S. Horsburgh, D. Jackson-Smith, A.S. Jones, C. Licon, S.E. Null, A. Odame, D.E. Pataki, D. Rosenberg, M. Runburg, P. Stoker, C. Strong. 2015. iSAW: Integrating Structure, Actors, and Water to Study Socio-Hydro-Ecological Systems. *Earth's Future*, 3, DOI:10.1002/2014EF000295
- Li, E., J. Endter-Wada, and S. Li. 2015. Linkages Between Water Challenges and Land Use Planning in Megacities. *Water Resources Impact* 17(1):9-12. Available at: <http://www.awra.org/impact/>
- Downard, R., J. Endter-Wada, and K. Kettenring. 2014. Adaptive Wetland Management in an Uncertain and Changing Arid Environment. *Ecology & Society* 19(2): Article 23. DOI: 10.5751/ES-06412-190223
- Madsen, J., C. Radel, J. Endter-Wada. 2014. Justice and Immigrant Latino Recreation Geography in Cache Valley, Utah. *Journal of Leisure Research* 46(3):291-312. [Special issue on Social and Environmental Justice.] Available at: [http://digitalcommons.usu.edu/envs\\_facpub/899/](http://digitalcommons.usu.edu/envs_facpub/899/)
- Downard, R. and J. Endter-Wada. 2013. Keeping Wetlands Wet in the Western United States: Adaptations to Drought in Agriculture-Dominated Human-Natural Systems. *Journal of Environmental Management* 131:394-406. DOI: 10.1016/j.jenvman.2013.10.008
- Welsh, L.W., J. Endter-Wada, R. Downard, and K.M. Kettenring. 2013. Developing Adaptive Capacity to Droughts: The Rationality of Locality. *Ecology & Society* 18(2): Article 7. DOI: 10.5751/ES-05484-180207
- Endter-Wada, J., and D.J. Blahna. 2011. Linkages to Public Land Framework: Toward embedding humans in ecosystem analyses by using "inside-out social assessment." *Ecological Applications* 21(8):3254-3271. DOI: 10.1890/10-2392.1
- Farag, F.A., C.M.U. Neale, R. Kjelgren, and J. Endter-Wada. 2011. Quantifying Urban Landscape Water Conservation Potential Using High Resolution Remote Sensing and GIS. *Photogrammetric Engineering*

- and Remote Sensing* 77(11):1113-1122. [This paper received the 2012 award for ESRI Best Scientific Paper in Geographic Information Systems] DOI: <https://doi.org/10.14358/PERS.77.11.1113>
- Kilgren, D., J. Endter-Wada, R. Kjelgren, and P.G. Johnson. 2010. Implementing Landscape Water Conservation in Public School Institutional Settings: A Case for Situational Problem Solving. *Journal of American Water Resources Association (JAWRA)* 46(6):1205-1220. DOI: 10.1111/j.1752-1688.2010.00486.x
- Endter-Wada, J., T. Selfa, and L. Welsh. 2009. Hydrologic Interdependencies and Human Cooperation: The Process of Adapting to Droughts. *Weather, Climate and Society* 1(1):55-71. DOI: <https://doi.org/10.1175/2009WCAS1009.1>
- Endter-Wada, J., and H. Ingram. 2009. Climate Change as Environmental Mega-Crisis: Domesticated Problems, Patchwork Solutions, Inadequate Incentives. In: *Mega-crises in the 21<sup>st</sup> Century*, Special Issue of *National Safety and Security and Crisis Management*, Directorate for National Safety and Security of the Ministry of the Interior and Kingdom Relations in the Netherlands. Available at: [http://www.patricklagadec.net/fr/pdf/Magazine Special Mega-crises in the 21<sup>st</sup> century.pdf](http://www.patricklagadec.net/fr/pdf/Magazine%20Special%20Mega-crises%20in%20the%2021st%20century.pdf)
- Endter-Wada, J., J. Kurtzman, S.P. Keenan, R.K. Kjelgren, and C.M.U. Neale. 2008. Situational Waste in Landscape Watering: Residential and Business Water Use in an Urban Utah Community. *Journal of the American Water Resources Association (JAWRA)* 44(4):902-920. DOI: 10.1111/j.1752-1688.2008.00190.x
- Selfa, T., and J. Endter-Wada. 2008. The Politics of Community-Based Conservation in Natural Resource Management: A Focus for International Comparative Analysis. *Environment and Planning A* 40(4):948-965. DOI: <https://doi.org/10.1068/a39160>
- Hooper, V.H, J. Endter-Wada, and C.W. Johnson. 2008. Theory and Practice Related to Native Plants: A Case Study of Utah Landscape Professionals. *Landscape Journal* 27(1):127-141. DOI: 10.3368/lj.27.1.127
- Endter-Wada, J., and S. Keenan. 2005. Adaptations by Long-Term Commercial Fishing Families in the California Bight: Coping with Changing Coastal Ecological and Social Systems. *Human Organization* 64(3):225-239. DOI: 10.17730/humo.64.3.0c2uc20ct6mgdmjf
- Endter-Wada, J., D. Blahna, R. Krannich, and M. Brunson. 1998. A Framework for Understanding Social Science Contributions to Ecosystem Management. *Ecological Applications* 8(3): 891-904. DOI: 10.1890/1051-0761(1998)008[0891:AFFUSS]2.0.CO;2
- Endter-Wada, J., and L. Dennis-Perez. 1997. Protection or Infringement of Property Rights? Addressing Concerns Regarding Nonfederal Forest Lands in Utah. *Journal of Land, Resources, and Environmental Law* 17(1):11-44. Available at: <https://collections.lib.utah.edu/details?id=727813>
- Endter-Wada, J., and D.W. Levine. 1996. Comparison of Subsistence Activities Among Natives and Non-Natives in Bristol Bay, Alaska. *Society and Natural Resources* 9(6):595-609. DOI: 10.1080/08941929609380998
- Endter-Wada, J., L.A. Robbins, and D.W. Levine. 1992. Subsistence Practices in the Bristol Bay Region of Alaska. *Arctic Research of the United States* 6(Fall):51-56. (Publication of the Interagency Arctic Research Policy Committee, National Science Foundation) Available at: [https://storage.googleapis.com/arcticgov-static/publications/related/arotus/AROTUS 6.1992-Fall.pdf](https://storage.googleapis.com/arcticgov-static/publications/related/arotus/AROTUS_6.1992-Fall.pdf)

### Refereed Extension Publications

- Frank, M., J. Marty, C. Rohal, R. Downard, J. Endter-Wada, K. Kettenring, M. Larese-Casanova. 2016. Water Rights for Wetlands in the Bear River Delta. USU Extension Publication, Utah Master Naturalist5/2016-01pr, April 15, 2016.

## **Outreach and Popular Articles**

- Endter-Wada, J. 2015. The Untapped Potential of Water Conservation. *Utah Science* 68(2):30-31.
- Endter-Wada, J. 2009. Social Aspects of Water Delivery. *Newsletter of the Cache Valley Water Users Association and the Utah Association of Conservation Districts*. Special Edition, March 2009.
- Kurtzman, J., J. Endter-Wada, and D. Blahna. 2002. Utah's Rural Communities: Planning for the Future. Publication No. NR/RF/007 in *Utah Recreation and Tourism Matters*, Institute for Outdoor Recreation and Tourism, Utah State University.
- Endter-Wada, J. 1997. A Forest Practices Act Justified. *The Utah Watershed Review* 4(5):3.

## **BOOK CHAPTERS**

- Endter-Wada, J. 2014. Clean Water Scarcity (1950s-present). In *CQ Press Guide to U.S. Environmental Policy*, edited by Sally K. Fairfax and Edmund Russell, SAGE/CQ Press, Los Angeles, CA, USA, pp. 299-310.
- Endter-Wada, J., and H. Ingram. 2012. Global Climate Change as Environmental Mega-crisis. In *Mega-crisis: Understanding the Prospects, Nature, Characteristics and the Effects of Cataclysmic Events*, edited by Ira Helsloot, Arjen Boin, Brian Jacobs, and Louise K. Comfort, Charles C. Thomas Publisher, Ltd, Springfield, Ill, USA, pp. 300-318.
- Welsh, A.P., C.M.U. Neale, J. Endter-Wada, and R.K. Kjølgren. 2012. Custom software application for analyzing urban landscape water use. In *Remote Sensing and Hydrology* (IAHS Redbook based on proceedings of a symposium held at Jackson Hole, Wyoming, USA, Sept. 2010, edited by Christopher M.U. Neale and Michael H. Cosh), IAHS Publ. 352 (2012), Oxfordshire, United Kingdom.
- Callaway, D.G., and J. Endter-Wada. 1994. The Ute. An invited, reviewed chapter in *Native America in the Twentieth Century: An Encyclopedia*, edited by Mary B. Davis, Garland Publishing, New York and London, pp. 672-680.

## **PUBLISHED PROCEEDINGS**

### **Edited Volume**

- Endter-Wada, J., and R.J. Lillieholm, editors. 1995. *Conflicts in Natural Resources Management: Integrating Social and Ecological Concerns*. Proceedings of symposium held at Utah State University April 21-23, 1995. *Natural Resources and Environmental Issues*, Volume 3. 98 pp.

### **Chapters**

- Ingram, H. and J. Endter-Wada. 2009. Frames and ways of knowing: Key considerations for policy responses to climate risk and vulnerability. *Proceedings of the Seventh International Science Conference on the Human Dimensions of Global Environmental Change* (IHDP Open Meeting 2009), Bonn, Germany, April 26-30, 2009.
- Kjølgren, R., F.A. Farag, C.M.U. Neale, J. Endter-Wada, and J. Kurtzman. 2002. Quantifying potential urban landscape water conservation through billing data analysis in Layton, Utah. *Proceedings, American Water Works Association (AWWA) Water Sources Conference: Reuse, Resources, Conservation*, January 27-31, Las Vegas, NV.
- Endter-Wada, J., and R.S. Krannich. 1998. The Interdisciplinary Natural Resource and Environmental Policy Program at Utah State University. *Proceedings of the Second Biennial Conference on University Education in Natural Resources*. Published in *Natural Resources and Environmental Issues* VII: 57-64.

- Endter-Wada, J. 1996. Empirical Findings of the Social Indicators Project. *Proceedings of the Social Indicators Monitoring Study Peer Review Workshop*, OCS Study, MMS 96-0053, pp. 23-33.
- Endter-Wada, J., and R.J. Lilieholm. 1995. Introduction. Pgs. xiii-xv in: *Conflicts in Natural Resources Management: Integrating Social and Ecological Concerns*. Proceedings of a symposium held at Utah State University April 21-23, 1995. In *Natural Resources and Environmental Issues*, Volume 3.
- Endter-Wada, J., and L.A. Robbins. 1992. A Comparative, Subregional Analysis of Subsistence Practices in the Bristol Bay Region of Alaska. *Proceedings of the Fourth MMS-AOCS Region Information Transfer Meeting*, OCS Study, MMS 92-0046, pp. 199-204.
- Endter-Wada, J. 1992. Social, Economic, and Subsistence Effects of the Exxon Valdez Oil Spill on the Kodiak Region. *Proceedings of the Fourth MMS-AOCS Region Information Transfer Meeting*, OCS Study, MMS 92-0046, pp. 283-288.

## TECHNICAL REPORTS

### Research Reports (publicly available)

- Endter-Wada, J., D.T. Wuenschell, C. Garrard, E.L. McGinty, K. Kopp, J. Hoover. 2019. Utah State Capitol Grounds Landscape Water Use Assessment. Research Report prepared for the Utah State Legislature. March 15, 2019. 54 pp.
- Welsh, L.W. and J. Endter-Wada. Cache Water District: Risks and Opportunities. 2016. Research and Policy Analysis Report on Formation of a Water Conservancy District in Cache County, Utah. Utah State University. October 20, 2016. 26 pp.
- Endter-Wada, J., A. Hall., D. Jackson-Smith, C. Flint. 2015. Utah's Water Future: Perspectives on Water Issues in Utah's Wasatch Range Metropolitan Area. Summary Report of Overall Findings from the iUTAH 2014 Household Survey. July 2015. 75 pp.
- Endter-Wada, J., D.T. Glenn, C. Lewis, R.K. Kjelgren, and C.M.U. Neale. 2013. Water User Dimensions of Meter Implementation on Secondary Pressurized Irrigation Systems. Research Report for Weber Basin Water Conservancy District and the U.S. Bureau of Reclamation. April 2013. 75 pp.
- Hoover, J.M., D.T. Glenn, J. Endter-Wada, and R.K. Kjelgren. 2006. Water Check Report and Summary: Summer 2005. Project report prepared for Logan City, September 2006. 48 pp.
- Endter-Wada, J., D. Blahna, R. Morris, R. Peterson, and T. Selfa. 2003. Linkages to Public Land Framework and Data Analysis. Report submitted for incorporation in: *People and the Forests: Socio-Economic Assessment Tools and Data for Forest Plan Revisions*. Prepared by Utah Governor's Office of Planning and Budget, USU Natural Resource and Environmental Policy Program, Utah Division of Indian Affairs, and Rocky Mountain American Indian Economic and Education Foundation. Prepared for the United States Forest Service.
- Blahna, D., J. Endter-Wada, S. Burr, M. Butkus, D. Gibbons, C. Klien, J. Kurtzman, and D. Reiter. 2003. *Long-Range Transportation Planning in Utah: Executive Summary*. A Synthesis of Findings and Recommendations from Phase I and Phase II of the 2003 Utah Department of Transportation (UDOT) Benchmark Study. Published in Appendix B (Public Involvement Data, Research Data), *UtahTransportation 2030: State of Utah Long Range Transportation Plan*, Utah Department of Transportation. 15 pp.
- Endter-Wada, J., J. Kurtzman, M. Butkus, D. Blahna, C. Klien, S.W. Burr, D. Gibbons, and D. Reiter. 2003. *Long-Range Transportation Planning in Utah: Summary of Research Results from Interviews and Focus Groups*. Final Report from Phase II of the 2003 Utah Department of Transportation (UDOT) Benchmark

- Study. Published in Appendix B (Public Involvement Data, Research Data), Utah Transportation 2030: State of Utah Long Range Transportation Plan, Utah Department of Transportation. 74 pp.
- Reiter, D., D. Blahna, S.W. Burr, C. Klien, J. Endter-Wada, J. Kurtzman, M. Butkus, and D. Gibbons. 2003. *Long-Range Transportation Planning in Utah: Summary of Research Results from a Statewide Telephone Survey*. Final Report from Phase I of the 2003 Utah Department of Transportation (UDOT) Benchmark Study. Published in Appendix B (Public Involvement Data, Research Data), Utah Transportation 2030: State of Utah Long Range Transportation Plan, Utah Department of Transportation. 34 pp.
- Keenan, S., and J. Endter-Wada. Conserving: The Logan Lifestyle. 2002. Report on the 2001 Summer Energy Conservation Initiative. Project report prepared for Logan City Light and Power by Natural Resource and Environmental Policy Program, Utah State University. January 2002.
- Keenan, S., J. Endter-Wada, R.L. Little. 2000. Social and Economic Adaptations by Fish Harvesters in the Santa Barbara Channel-Santa Maria Basin Area, California. Project Report prepared for the Minerals Management Service, U.S. Department of the Interior. 210 pp.
- Endter-Wada, J. and D.W. Levine. 1996. Respondent Residential and Migration Histories: Historic Use of Katmai National Park and Preserve Lands for Subsistence Purposes. 39 pp.
- Endter-Wada, J. and D.W. Levine. 1996. Information Pertaining to Use of ATVs and Redfish in Study Communities. Issue report prepared for the National Park Service, Anchorage Office. 16 pp.
- Levine, D.W., and J. Endter-Wada. 1994. Code Books for Katmai Research Project Data (with accompanying data files). Technical Memorandum No. 4. 371 pp.
- Morris, J.M., S.P. Keenan, and M. Hanewald. 1994. Community Ethnographic Summaries: Igiugig, Kokhanok, Levelock, and South Naknek. Edited by J. Endter-Wada. Technical Memorandum 3. 154 pp.
- Morris, J.M., S.P. Keenan, and M. Hanewald. 1994. Revised Draft Community Histories: Igiugig, Kokhanok, Levelock, and South Naknek. Edited by J. Endter-Wada. Technical Memorandum No. 2. 173 pp.
- Endter-Wada, J., and D.W. Levine. 1994. Research Design and Work Plan for the Katmai Research Project. Technical Memorandum No. 1. 90 pp.
- Endter-Wada, J., R. Mason, J. Mulcahy, and J. Hofmeister. 1993. Kodiak Area Hub Community: Kodiak City. In *Social Indicators Study of Alaskan Coastal Communities, Postspill Key Informant Summaries, Schedule C Communities, Part 2*. OCS Study, MMS 92-0052, Technical Report No. 155. U.S. Dept. of the Interior, Minerals Management Service, Alaska OCS Regional Office, Anchorage, pp. 555-721.
- Endter-Wada, J., L.A. Robbins, D.W. Levine, D.L. Boxberger, P.D. Nohalty, J.G. Jorgensen, and S.L. McNabb. 1992. *Bristol Bay Subsistence Harvest and Sociocultural Systems Inventory*. OCS Study, MMS 92-0036, Technical Report No. 150. U.S. Department of the Interior, Minerals Management Service, Alaska OCS Regional Office, Anchorage. 426 pp.
- Endter-Wada, J., S.L. McNabb, and J. Mulcahy. 1992. The Bristol Bay Region. In *Social Indicators Study of Alaskan Coastal Communities, Key Informant Summaries, Vol. 2: Schedule B Regions*. OCS Study, MMS 92-0032, Technical Report No. 152. U.S. Department of the Interior, Minerals Management Service, Alaska OCS Regional Office, Anchorage, pp. 557-663.
- Endter-Wada, J., R. Mason, J. Mulcahy, and J. Hofmeister. 1992. The Kodiak Region. In *Social Indicators Study of Alaskan Coastal Communities, Key Informant Summaries, Vol. 2: Schedule B Regions*. OCS Study, MMS 92-0032, Technical Report No. 152. U.S. Department of the Interior, Minerals Management Service, Alaska OCS Regional Office, Anchorage, pp. 667-882.



- Endter-Wada, J., L.A. Robbins, D.W. Levine, D.L. Boxberger, P.D. Nohalty, J.G. Jorgensen, and S.L. McNabb. 1991. Subregional Data Integration and Analysis and Community Profiles. U.S. Department of the Interior, Minerals Management Service, Alaska OCS Regional Office, Anchorage. 252 pp.
- Endter-Wada, J., D.W. Levine, P.D. Nohalty, and J.G. Jorgensen. 1990. Subregional Data Review and Statistical Analysis. U.S. Department of the Interior, Minerals Management Service, Alaska OCS Regional Office, Anchorage. 227 pp.
- Endter-Wada, J., D.W. Levine, and P.D. Nohalty. 1990. Alaska Department of Fish and Game Data Set Review. U.S. Department of the Interior, Minerals Management Service, Alaska OCS Regional Office, Anchorage. 95 pp.
- Endter, J.L., R.L. Little, and R.S. Krannich. 1988. Summary Ethnographic Report for Eastern Lincoln County. Yucca Mountain Socioeconomic Research Project, Nevada Nuclear Waste Project Office, Carson City, Nevada. 110 pp.
- Endter, J.L., R.L. Little, and R.S. Krannich. 1988. Summary Ethnographic Report for Pahrnagat Valley. Yucca Mountain Socioeconomic Research Project, Nevada Nuclear Waste Project Office, Carson City, Nevada. 80 pp.
- Endter, J.L., R.L. Little, and R.S. Krannich. 1988. Summary Ethnographic Report for Indian Springs. Yucca Mountain Socioeconomic Research Project, Nevada Nuclear Waste Project Office, Carson City, Nevada. 112 pp.
- Endter, J.L. 1987. Cultural Ideologies and the Political Economy of Water in the United States West: Northern Ute Indians and Rural Mormons in the Uintah Basin, Utah. Unpublished Ph.D. dissertation. University of California, Irvine. 434 pp.

### **State of Utah Task Force Report**

- Endter-Wada, J., et al. 1996. *Stewardship of Utah's Forests*. A Report of the Utah Forest Practices Task Force prepared for the Energy, Natural Resources, and Agriculture Committee of the Utah Legislature.

## **REVIEWS**

### **Invited Book Reviews Published in Journals**

- Endter-Wada, J. 2003. Book review of "Take My Land, Take My Life: The Story of Congress's Historic Settlement of Alaska Native Land Claims, 1960-1971," by Donald Craig Mitchell. *Western Historical Quarterly* 34(3):377-378.
- Endter-Wada, J. 1997. Book review of "Waters in Zion: The Politics of Water in Utah," edited by Daniel C. McCool. *Social Science Journal* 34(1):98-101.
- Endter, J. 1990. Book review of "Indian Agriculture in America: Prehistory to the Present," by R. Douglas Hurt. *American Indian Culture and Research Journal* 14(1): 151-154.
- Endter, J. 1989. Book review of "A Stranger in Her Native Land: Alice Fletcher and the American Indians" by Joan Mark. *American Indian Culture and Research Journal* 13(2): 107-111.

## **VIDEOS**

- Consumer Attitudes Toward Water-Efficient Landscapes* - Stephanie Duer, Kelly Kopp, Joanna Endter-Wada USEPA WaterSense Webinar Series. Co-sponsored by EPA WaterSense and the Alliance for Water Efficiency. Presented Nov. 5, 2015. Published on You Tube, Nov. 20, 2015:  
<https://www.youtube.com/watch?v=6bUi9Mq-dDk>

*Water Demand for Urban Areas* - Joanna Endter-Wada

Guest lecture for “Water in the Western US”, a MOOC co-sponsored by the Western Water Assessment and CIRES (Cooperative Institute for Research in Environmental Sciences), University of Colorado at Boulder). Delivered in April 2015. Published on YouTube on Dec. 10, 2015:

<https://www.youtube.com/watch?v=ky9vKE2JxpU>

*TEDxUSU 2013: Water Needs and Wants* - Joanna Endter-Wada

Presented November 5, 2013. Video available at:

<http://rgs.usu.edu/tedxusu/htm/tedx-usu-2013>

*Paradoxes in Adapting to Droughts: The Rationality of Locality* - Joanna Endter-Wada, Lisa Welsh, Rebekah Downard, and Karin Kettenring (2009)

Case study video selected for presentation at the Ecological Society of America’s (ESA) First Emerging Issues in Ecology Conference entitled *Water Ecosystem Services, Drought, and Environmental Justice*, Athens, Georgia, November 9-12, 2009. Available as part of ESAVideos on YouTube:

Part 1: <http://www.youtube.com/watch?v=MsRcSHJdodo>

Part 2: <http://www.youtube.com/watch?v=0KtNR3FtXOc>

## CONTRACTS AND GRANTS

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### Utah State University

#### USU: PI or co-PI; Externally Funded

- *Weather Stations to Support Water Conservation in Salt Lake City*. USU Extension Water Initiative and Salt Lake City Department of Public Utilities. April 2020-May 2022. Amount: \$46,400.00. [Joanna Endter-Wada (PI), Kelly Kopp (co-PI), Rob Gillies (co-PI) with CWEL, Utah Climate Center and SLCDPU Project Team.]
- *Identifying and Meeting Salt Lake City’s Landscape Water Conservation Potential: Phase II*. USU Extension Water Initiative and Salt Lake City Department of Public Utilities. April 2020-May 2022. Amount: \$150,000. [Joanna Endter-Wada (PI), Kelly Kopp (co-PI), with CWEL, RS/GIS Laboratory, and SLCDPU Project Team.]
- *Implementing Water Conservation Strategies in Eagle Mountain City, Phase II*. USU Extension Water Initiative and Eagle Mountain City, Feb. 2018–June 2021. Amount: TBD. [Joanna Endter-Wada (PI), Kelly Kopp (co-PI), Larry Rupp (co-PI)].
- *Water Banking in Cache County*. USU Extension Water Initiative, Cache Water District, Utah Division of Water Resources, and Utah Division of Water Rights. Dec. 2017–May 2019. Amount: \$84,000. [Joanna Endter-Wada (PI), Niel Allen (co-PI), Lisa Welsh (co-PI)].
- *Identifying and Meeting Salt Lake City’s Landscape Water Conservation Potential*. USU Extension Water Initiative and Salt Lake City Department of Public Utilities. Feb. 2018–July 2019. Amount: \$96,120. [Joanna Endter-Wada (PI), Kelly Kopp (co-PI), Larry Rupp (co-PI)].
- *Landscape Water Use Analytics for Institutional and Corporate Properties, Phase I and Phase II*. USU Extension Water Initiative and External Partner, Sept. 2016–Dec. 2018. Amount: \$140,831. [Joanna Endter-Wada (PI), Larry Rupp (co-PI)].
- *Implementing Water Conservation Strategies in Eagle Mountain City*. USU Extension Water Initiative and Eagle Mountain City, Sept. 2016–Feb. 2018. Amount: \$96,663. [Larry Rupp (PI); Joanna Endter-Wada (co-PI), Kelly Kopp (co-PI)].
- *WaterMAPS for Promoting Urban Landscape Water Use Efficiency*. Funded by USGS, Subaward of State Water Resources Research. [Endter-Wada (PI on subaward); Roger Kjelgren (co-PI)] Amount: \$80,929.

- *Evaluation of Governance Structures and Processes Applicable to Water Management in Cache County, Utah.* Funded by Cache County, Utah, 2016. [Endter-Wada (PI), Lisa Welsh (co-PI)] Amount: \$22,754.
- *Testing Experimental Irrigation System Intervention in the Salt Lake City Department of Public Utilities Service Area.* Funding from Salt Lake City Department of Public Utilities, 2014–2015. [Endter-Wada (Co-PI); Kelly Kopp (PI); Diana Glenn (Co-PI)] Amount: \$9,999
- *Outdoor Water Savings Research Initiative, Phase 1: Analysis of Published Research.* Funding from Alliance for Water Efficiency, 2014. [Endter-Wada (PI); Diana Glenn (Co-PI)] Amount: \$5,000
- *Water Check Program.* Funding from the Metropolitan Water District of Salt Lake and Sandy, 2013. [Endter-Wada (Co-PI); Kelly Kopp (PI)] Amount: \$50,947
- *Software for Analyzing Metered Secondary Water Use.* Funding from the Weber Basin Water Conservancy District, 2012–2013. [Endter-Wada (PI); Roger Kjellgren (Co-PI); Christopher Neale (Co-PI)] Amount: \$26,901
- *Water User Dimensions of Meter Implementation on Secondary Pressurized Irrigation Systems.* Funding from the Weber Basin Water Conservancy District and US Bureau of Reclamation, 2011–2013. [Endter-Wada (PI); Roger Kjellgren (Co-PI); Christopher Neale (Co-PI)] Amount: \$41,492
- *Decision Support Software for Promoting Urban Landscape Water Use Efficiency.* Funding from the Western Water Assessment (NOAA) and University of Colorado at Boulder, 2011–2012. [Endter-Wada (PI); Roger Kjellgren (Co-PI); Christopher Neale (Co-PI)] Amount: \$46,460
- *Drought Management Project.* Funding from USDA CSREES and NIFA. Paul Johnson, PI (2006-2009); David Chandler, PI (2004-2005). Total Project (2004–2009): \$3,555,481. Endter-Wada (PI) for Social Science/Policy Portion of Project (2004-2009). Amount: \$314,800
- *Utah Department of Transportation Benchmark Survey: Attitudes Towards UDOT's Decision-Making Process.* Funding from the Utah Department of Transportation, 2002–2003. [Endter-Wada (Co-PI); Dale Blahna (PI); Steve Burr (Co-PI)] Amount: \$99,999
- *Social-Economic Assessment for Forest Plan Revision on the Dixie, Fishlake, and Manti-La Sal National Forests.* Funding from the Utah Governor's Office of Planning and Budget and the U.S. Forest Service, 2002–2003 [Endter-Wada (PI)] Amount: \$50,000
- *Great Basin Native Plant Marketing Study.* Sponsored by the Lone Peak Conservation Nursery, Utah Division of Forestry, Fire, and State Lands. Funding from the U.S. Forest Service Market Improvement Program, 2001–2003. [Endter-Wada (PI)] Amount: \$51,269
- *Farm and Landscape Water Allocation and Conservation at the Rural-Urban Interface.* National Research Initiative Competitive Grant, U.S. Department of Agriculture, 1997–2001 [Endter-Wada (Co-PI); Roger Kjellgren (PI), Christopher Neale (Co-PI), and Bruce Bishop (Co-PI)] Amount: \$246,357
- *Planning Grant for an Intermountain West Center for Sustainable Agriculture and Environmental Stewardship.* Funding from Fund for Rural America, USDA, 1997–1998 [Endter-Wada (PI); Michael O'Neill (Co-PI); G. Allen Rasmussen (Co-PI)] Amount: \$41,850
- *Utah Forest Practices Review.* Contract with the Utah Division of Forestry, Fire, and State Lands, 1996–1997 [Endter-Wada (Co-PI); Michael Kuhns (PI)] Amount: \$50,193
- *Sociocultural Consequences of Alaska OCS Activities - Data Analysis and Integration.* Subcontract with the Subsistence Division of the Alaska Department of Fish and Game, 1996–1999. [Endter-Wada (PI); Douglas Levine (Co-PI)] Amount: \$27,678

- *Katmai Research Project: Levelock, Igiugig, Kokhanok, and South Naknek, Alaska.* National Park Service Cooperative Agreement No. CA-1268-1-9006, 1993–1999 [Endter-Wada (Co-PI); Douglas Levine (Co-PI)] Amount: \$349,600 (with addendums)
- *Social and Economic Adaptations by Fish Harvesters in the Santa Barbara Channel-Santa Maria Basin Area, California.* Research Contract No. 14-35-0001-30707, Minerals Management Service, United States Department of Interior, 1993–1999 [Endter-Wada (Co-PI); Ronald Little (PI)] Amount: \$412,026 (with modifications)

**USU: Faculty Participant; Externally Funded** (amounts reported below are total project funds)

- *iUTAH – innovative Urban Transitions and Aridregion Hydro-sustainability.* National Science Foundation EPSCoR Project, 2012–2017. Todd Cowl, Principal Investigator. Amount for entire project: \$20,000,000. *My roles:* member of Research Team for Focus Area 2 investigating the Social and Engineered Ecohydrologic System; Management Team; Faculty Advisor for Students
- *Hydrologic and Ecological Impacts of Changes in Human Water Resource Management.* National Science Foundation, Water, Sustainability and Climate (WSC), Category 1 Grant, 2010–2011. Douglas Jackson-Smith, Principal Investigator. Amount Awarded to Interdisciplinary Team: \$149,943. *My roles:* involved in team-building activities, preliminary investigations, proposal preparation for larger grant.

**USU: USU PI and Mentor of a Ph.D. Student; Externally Funded**

- [Lisa Welsh] *Policy Designs to Address Water Reallocations During Societal Transitions.* Division of Social and Economic Sciences (SES), Directorate for Social, Behavioral & Economic Sciences (SBE), National Science Foundation (NSF), 2011–2012 (Lisa Welsh, Dissertation Improvement Grant; Endter-Wada as NSF official Principal Investigator). Amount: \$13,435
- [Lisa Welsh] *Water Policy Designs to Address Societal Transitions.* National Water Research Institute, Graduate Fellowship Program, 2010–2012. Amount: \$10,000
- [Wayne van Zwoll] *Effects of Large Herbivore Hunting Schemes on Cohabitant Ungulates.* Boone and Crockett Club, 1996–1997. Amount: \$7,100.

**USU: PI or co-PI; Internally Funded**

- *Stretching Limited Water Supplies in the Arid U.S. Intermountain West.* Utah Agricultural Experiment Station, UTAO1353, 2017–2022. [Endter-Wada (PI)] Amount (approximate): \$22,500.
- *Testing Experimental Irrigation System Intervention in the Salt Lake City Department of Public Utilities Service Area.* USU Extension Grant, 2014–2015. [Endter-Wada (Co-PI); Kelly Kopp (PI); Diana Glenn (Co-PI)]. Amount: \$9,926
- *Living with Aridity, Responding to Drought, and Adapting to Climate Change in Urbanizing Areas of Utah.* Utah Agricultural Experiment Station, 2013–2015. [Endter-Wada (PI)] Amount: \$19,863.
- *Designing Policies and Promoting Practices to Meet Agricultural, Urban and Environmental Water Needs in the Intermountain West.* Utah Agricultural Experiment Station, UTAO1120, 2012–2016. [Endter-Wada (PI)] Amount (approximate): \$80,000
- *Intervening to Encourage Water Conservation: developing an interdisciplinary urban water conservation research program at USU.* Seed Program to Advance Research Collaborations (SPARC), Utah State University, 2009–2010 [Endter-Wada (Co-PI); David Rosenberg (PI); Arthur Caplan (Co-PI)]. Amount: \$34,988
- *IPD Productivity Retreats.* Faculty Advancement Grant, NSF Advance at USU, 2006. (Individual Grant) Amount: \$4,500

- *Contributing to Drought Management through Understanding Factors Influencing Human Conservation Behavior*. USU Water Initiative Research Initiation Grant, 2004–2005 [Endter-Wada (PI) with Co-PIs Arthur Caplan, Peggy Petrzela, and Theresa Selfa] Amount: \$15,000
- *Integrating Human Dimensions into the Science and Management of Utah's Forest Ecosystems*. Utah Agricultural Experiment Station, McIntire-Stennis, 1996–2002 [Endter-Wada (PI)] Amount: \$38,300
- *Analysis of the United States Forest Service's Implementation of the National Environmental Policy Act: Case Studies from the United States West*. Faculty Research Grant, Utah State University, 1992–1993. [Endter-Wada (PI)] Amount: \$15,000
- *Analysis of Factors Affecting Subsistence Use of Naturally-Occurring Resources in the Bristol Bay Region of Alaska*. Faculty Research Grant, Utah State University, 1991–1992. [Endter-Wada (PI)] Amount: \$8,966

### Private Consultant

- *Bristol Bay Subsistence Study*. Research Contract No. 14-35-0001-30479, Minerals Management Service, Department of Interior, 1990–1992. [Endter-Wada (PI), with Lynn Robbins from Western Washington University (Co-PI) and Douglas Levine from the Bowman Gray Medical School (Co-PI)] Amount: \$245,000

### Other Universities

- *Historical Research on Northern Ute Water Issues*. Institute of American Cultures Research Grant, University of California, Los Angeles, 1989–1990. Amount: \$4,735
- *Cultural Comparison of Views about Water*. Regent's Dissertation Grant, University of California, Irvine, 1985. Amount: \$5,000
- *Preliminary Research Trip to Colombian Amazon Region*. Chancellor's Patent Fund Grant, University of California, Irvine, 1980. Amount: \$4,500

## PRESENTATIONS

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### Professional Meetings and Universities

#### Invited Presentations

- Duer, S. and J. Endter-Wada. WaterMAPS™ Analysis for Conservation Programming in Salt Lake City. Invited presentation for the Water Well with CWEL Webinar Series, Center for Water Efficient Landscaping, Utah State University. December 8, 2020.
- Endter-Wada, J. Water Smart Cities. Invited presentation at the joint meeting of the Salt Lake Chamber and the Utah League of Cities and Towns. Salt Lake City, UT, USA, September 13, 2019.
- Endter-Wada, J. Connecting Land and Water: Research in the Colorado River Basin. Invited presentation for panel at Universities Council on Water Resources (UCOWR) Annual Conference, Snowbird, UT, USA, June 11, 2019.
- Carney, C., L. Welsh, J. Endter-Wada, and N. Allen. Water Banking in Cache County: A Research Update. Invited presentation for the Northern Utah Water Conference, Logan, UT, USA, April 3, 2019.
- Endter-Wada, J. Conservation Behavior: What's the Potential? Invited presentation for the 2019 Central Texas Water Conservation Symposium entitled "Integrated Water: Keeping Water Conservation at the Forefront," Austin, TX, USA, January 31, 2019.
- Endter-Wada, J. Developing Water Policy to Support Resiliency. Invited presentation for Confluence 2019 sponsored by the Weber River Partnership, Ogden, UT, USA, January 15, 2019.
- Endter-Wada, J. Moving the Needle: Affecting Policy Change at the State Level Related to Water and Wetlands in the Arid West. Invited presentation for Symposium on "Sustaining Wetland Science in a Time of Political Divisiveness and Scientific Skepticism. Society of Wetland Scientists Annual Meeting, Denver, CO, USA, May 29-June 1, 2018.
- Kettenring, K., J. Endter-Wada, R. Downard, J. Vest. Linking wetlands, waterbirds, and water policy in the iconic Great

- Salt Lake ecosystem: challenges and opportunities in a heavily impacted landscape. Presented at the Society of Wetland Scientists Annual Meeting, Denver, CO, USA, May 29-June 1, 2018.
- Downard, R., K. Kettenring, J. Endter-Wada. Assessing intensively managed wetlands: linking condition, habitat goals, and wildlife functions. Presented at the Society of Wetland Scientists Annual Meeting, Denver, CO, USA, May 29-June 1, 2018.
  - Endter-Wada, J., J.I. Harvey Thomson, C. Carney. Water Conservation Motivations and Societal Outcomes. Invited presentation for the Utah Water Conservation Forum, West Jordan, UT, USA, May 17, 2018.
  - Endter-Wada, J. and K. Kettenring. Recognizing water, wet+land, and land interconnections in protecting the Great Salt Lake. Invited presentation for the Great Salt Lake Issues Forum, Salt Lake City, UT, USA, May 10, 2018.
  - Endter-Wada, J., N. Allen, L. Welsh, and C. Carney. 2018. Water Banking in Cache County. Invited presentation for the Utah Water Users Workshop, St. George, UT, USA, March 20-21, 2018.
  - Rupp, L., K. Kopp, J. Endter-Wada, J. Goodspeed, and M. Kilcrease. Landscape Water Conservation. Invited presentation for the Utah Water Users Workshop, St. George, UT, USA, March 20-21, 2018.
  - Endter-Wada, J. "Strategic Conversations about Utah's Water Future: Reflections from a Member of the Governor's Water Strategy Advisory Team." Invited seminar for Quinney College of Natural Resources Seminar Series, Nov. 29, 2017.
  - Endter-Wada, J. "Ways of Knowing Water." Invited presentation for the American Water Resources Association Utah Section, 44<sup>th</sup> Annual Water Conference. University of Utah, Salt Lake City, UT, USA, May 10, 2016.
  - Endter-Wada, J. "The Role of Understanding Human-Hydrologic Interdependencies for Living with Aridity, Responding to Drought, and Adapting to Climate Change." Invited seminar for the Hydrologic Sciences Group in the Department of Land, Air and Water Resources, University of California, Davis, CA, USA, April 2, 2015.
  - Endter-Wada, J. "Adapting to Drought in the Western U.S.: Balancing Agricultural, Wetland, and Urban Water Needs." Invited seminar for the Department of Forestry and Natural Resources at Purdue University, West Lafayette, Indiana, USA, March 11, 2014.
  - Endter-Wada, J. "Place-Based Policies and Practices: Connecting Water, Land and People to Sustain Food Systems." Invited policy seminar at the University of Nebraska, Lincoln, Nebraska, USA, October 25, 2013.
  - Endter-Wada, J. "Working with People to Promote Landscape Water Conservation." Invited plenary speaker at the 33<sup>rd</sup> Annual Florida Master Gardener Continued Training Conference, Orlando, Florida, USA, October 20-23, 2013.
  - Endter-Wada, J. "Working with People to Promote Landscape Water Conservation." Invited guest lecture for the Sociology Department, Weber State University, Ogden, UT, USA, October 9, 2013.
  - Endter-Wada, J. "Efficiency within Sufficiency: Analyzing and Promoting Landscape Water Conservation." Invited seminar presentation, co-sponsored by the Center for Landscape Conservation and Ecology and the Water Institute, University of Florida, Gainesville, Florida, USA, November 16, 2012.
  - Endter-Wada, J. "Metrics for Analyzing Appropriateness and Change in Urban Landscape Water Use." Invited Seminar Presentation, Center for Urban Environmental Research and Education, University of Maryland Baltimore County, Baltimore, Maryland, USA, September 28, 2012.
  - Endter-Wada, J., L.W. Welsh, R. Downard, K. Kettenring. "Paradoxes in Adapting to Droughts: The Rationality of Locality." Case study video selected for presentation at the Ecological Society of America's (ESA) First Emerging Issues in Ecology Conference entitled *Water Ecosystem Services, Drought, and Environmental Justice*, Athens, Georgia, USA, November 9-12, 2009. Permanently available as part of ESAVideos on YouTube.
  - Welsh, L.W. and J. Endter-Wada. "Geopolitical Influences on Human Vulnerability to Drought: Comparing the Upper and Lower Divisions of the Bear River Basin." Poster selected for presentation at the Ecological Society of America's (ESA) First Emerging Issues in Ecology Conference entitled *Water Ecosystem Services, Drought, and Environmental Justice*, Athens, Georgia, USA, November 9-12, 2009.
  - Downard, R., J. Endter-Wada, and K. Kettenring. "Keeping Wetlands Wet: Wetland Policies and Politics in the Bear River Basin." Poster selected for presentation at the Ecological Society of America's (ESA) First Emerging Issues in Ecology Conference entitled *Water Ecosystem Services, Drought, and Environmental Justice*, Athens, Georgia, USA, November 9-12, 2009.
  - Endter-Wada, J. "The Process of Adapting to Droughts." Invited presentation at the Bear River Symposium. Garden

City, Utah, USA, September 10, 2009.

- Endter-Wada, J. “Environmental Ethics and You.” Invited presentation to the Utah Environmental Symposium entitled *Building Community Partnerships*, sponsored by the Utah Society for Environmental Education, Salt Lake City, Utah, USA, November 8, 2003.
- Endter-Wada, J. “The Health of Utah’s Rivers and Streams.” Invited presentation at the Green Bag Series sponsored by the Natural Resources Law Forum and the Wallace Stegner Center for Land, Resources and the Environment, University of Utah School of Law, Salt Lake City, Utah, USA, January 31, 2001.
- Endter-Wada, J. “Natural Resource Policy in the Making: The Utah Fish Health Policy Board.” Invited presentation at the Annual Meeting of the Bonneville Chapter of the American Fisheries Society, Salt Lake City, Utah, USA, March 15, 2000.
- Endter-Wada, J. “Summary Comments and Perspectives from the MMS Scientific Committee.” Invited presentation at the Socioeconomic Workshop sponsored by the Minerals Management Service, Park City, Utah, USA, August 23-25, 1999.
- Endter-Wada, J. “Thoughts on Educational Needs of Professional Biologists, Managers, Appointed Councils and Boards about Citizen Involvement in Wildlife Management Planning and Policy Making.” Invited presentation at the Utah Wildlife Federation Conference, Salt Lake City, Utah, USA, May 1, 1999.
- Endter-Wada, J. “The Environmental Elitism of Pristine Places.” Invited presentation delivered at a special conference entitled *Environmental Justice: Burdens and Promise*, Oregon State University, Corvallis, Oregon, USA, January 20, 1995.
- Endter-Wada, J. “A Sociological Look at People’s Needs and Desires in Relation to Riparian Areas.” Invited presentation delivered at the Annual Meeting of the Society for Range Management, Albuquerque, New Mexico, USA, February 13-18, 1993.
- Endter-Wada, J. and R.L. Little. “Natural Resource Dependency and Economic Vulnerability: Rural Community Responses.” Invited presentation delivered at the Symposium on *Rural Villages in the Twenty-First Century*, Utah State University, Logan, Utah, USA, July 1990.

### Contributed Presentations

- McGinty, C., C. Garrard, E.L. McGinty, J. Endter-Wada, and S. Duer. WaterMAPS™: A Mapping Tool for Promoting Urban Landscape Water Conservation. Presented at the Utah Geographic Information Council 2020 Virtual Conference, September 2-3, 2020.
- Eveleigh, E., L. Welsh, J. Endter-Wada. Employing Geospatial Technologies to Track Wetlands Mitigation. Presented at the American Water Resources Association 2020 Virtual Geospatial Water Technology Conference on Complex Systems. August 4-13, 2020.
- Welsh, L., J. Endter-Wada, C. Carney, N. Allen. Water Banking to Access Water in Cache County, Utah. Presentation as part of a special session, “Water Markets and Water Banking – Fostering Better Water Use.” Presented at the Annual Meeting of the American Water Resources Association, Salt Lake City, UT, USA, Nov. 3-6, 2019.
- Carney, C., J. Endter-Wada, and L. Welsh. The Water Bank(ing) Experience in the Western United States and Insights from Utah’s Neighbors. Presentation as part of a special session, “Water Markets and Water Banking – Fostering Better Water Use.” Presented at the Annual Meeting of the American Water Resources Association, Salt Lake City, UT, USA, Nov. 3-6, 2019.
- Endter-Wada, J., K. Kettenring, A. Sutton-Grier. Wetlands and Disaster Risk Reduction: Protecting Wetlands to Protect People. Presented at the Annual Meeting of the American Water Resources Association, Salt Lake City, UT, USA, Nov. 3-6, 2019.
- Endter-Wada, J. WaterMAPS™. Presentation as part of a special session, “Interdisciplinary Water Optimization Using the Land-Grant Model: Science-Based Research, Teaching, and Extension at Utah State University.” Presented at the Annual Meeting of the American Water Resources Association, Salt Lake City, UT, USA, Nov. 3-6, 2019.
- Carney, C., J. Endter-Wada, L. Welsh. The Compounding Interest in Banking Water and Water Security (Case Study from Western USA). Presented at the American Water Resources Association International Specialty Conference “Water Security: New Technologies, Strategies, Policies and Institutions,” Beijing, China, Sept. 16-18, 2019.

- Sutton-Grier, A., J. Endter-Wada, K. Kettenring. Wetlands and Disaster Risk Reduction: Protecting Wetlands to Protect People. Presented at the Annual Meeting of the Society of Wetland Scientists, Baltimore, MD, May 28-31, 2019.
- Endter-Wada, J. and K. Kettenring. Recognizing water, wet+land, and land interconnections in protecting the Great Salt Lake. Presented at the American Water Resources Association Annual Meeting, Baltimore, MD, USA, Nov. 5-8, 2018.
- Endter-Wada, J. C. Carney, I. Thomson, D. Wuenschell, L. Welsh. Role of Water Demand Management Infrastructure: Tapping New Potential and Assessing Tradeoffs. Presented at 2017 American Water Resources Association Annual Meeting, Portland, OR, USA, Nov. 6-9, 2017.
- Endter-Wada, J. Conservation Behavior Panel: What's the Potential? Learning from Behavior Practitioners. Presented at 2018 Water Smart Innovations Conference, Las Vegas, NV, USA, Oct. 2-5, 2018.
- Carney, C. and J. Endter-Wada. Confounding Conservation in Utah? Strong Citizen Support for Government Involvement to Confront Water-Related Stresses in a Red State. Presented at 2017 American Water Resources Association Annual Meeting, Portland, OR, USA, Nov. 6-9, 2017.
- Wuenschell, D., J. Endter-Wada, K. Kopp, and S. Duer. Irrigation System Maintenance: Enhancing Homeowner Skills. Presented at 2017 American Water Resources Association Annual Meeting, Portland, OR, USA, Nov. 6-9, 2017.
- Endter-Wada, J., D. Rice, D. Wuenschell, and C. Garrard. Metering Non-Potable Water: 5-Year Study of Urban Irrigation Efficiency. Presented at 2017 Water Smart Innovations Conference, Las Vegas, NV, USA, Oct. 3-6, 2017.
- Endter-Wada, J., D. Wuenschell, K. Kopp, and S. Duer. "Enhancing Homeowner Skills for Improving Landscape Irrigation Efficiency." Presented at 2016 Water Smart Innovations Conference, Las Vegas, NV, USA, Oct. 5-7, 2016.
- Rupp, L., K. Kopp, J. Endter-Wada, P.G. Johnson, R. Kjelgren. "Are Utah's Landscapes Worth the Water?" Presentation at the Salt Lake County Watershed Conference, Salt Lake City, Utah, Nov. 18, 2015.
- Endter-Wada, J., A. Hall, D. Jackson-Smith, C. Flint, E. Li, P. Stoker, T. Carothers, S. Yeo. "Characterizing Residential Water Customers for Promoting Urban Water Demand Management: Results from iUTAH 2014 Household Survey." Presentation at meeting of the Intermountain Region Section, American Water Works Association, Logan, Utah, Sept. 16, 2015.
- Li, E., S. Li, and J. Endter-Wada. "Spatiotemporal Dynamics of Water-Related Agricultural Land Use during Rapid Urbanization Process." Presentation at the Association of American Geographers 2015 Annual Meeting, Chicago, Illinois, USA, April 24, 2015.
- Endter-Wada, J., M. Burnham, Z. Ma, T. Bardsley. "Water Policy Challenges and Dilemmas of Urbanization Processes in Utah." Presentation at the American Water Resources Association (AWRA) 2015 Spring Specialty Conference: *Water for Urban Areas – Managing Risks and Building Resiliency*, Los Angeles, CA, USA, March 30-April 1, 2015.
- Endter-Wada, J., D. Glenn, R. Kjelgren, C. Lewis, C.M.U. Neale. "Meter Implementation and Information Feedback: Tools for Promoting Urban Water Conservation." Presentation at the American Water Resources Association (AWRA) 2015 Spring Specialty Conference: *Water for Urban Areas – Managing Risks and Building Resiliency*, Los Angeles, CA, USA, March 30-April 1, 2015.
- Endter-Wada, J., A. Hall, D. Jackson-Smith, C. Flint, E. Li, P. Stoker, T. Carothers, S. Yeo. "Characterizing Residential Water Customers for Promoting Urban Water Demand Management: Results from iUTAH 2014 Household Survey." Presentation at the American Water Resources Association (AWRA) 2015 Spring Specialty Conference: *Water for Urban Areas – Managing Risks and Building Resiliency*, Los Angeles, CA, USA, March 30-April 1, 2015.
- Kopp, K. and J. Endter-Wada, with P. Johnson, R. Kjelgren, and L. Rupp. "Conserving Water without Reducing Quality of Life." Presentation at the 8<sup>th</sup> Annual Salt Lake County Watershed Symposium, Salt Lake City, Utah, USA, November 20, 2014.
- Burnham, M., Z. Ma, J. Endter-Wada, T. Bardsley. "Creating Utah's water future: the politics of water management adaptation to climate change." Presentation at the Association of American Geographers 2014 Annual Meeting, Tampa, Florida, USA, April 11, 2014.
- Jackson-Smith, D., P. Stoker, M. Buchert, Z. Bjerregaard, S. Li, C. Licon, M. Cannon, S. Hinnert, J. Endter-Wada, L. Bell. "Neighborhood Socio-Ecology along a Gradient of Urbanization." Presentation at the American Geophysical Union, San Francisco, CA, USA, November 2013.
- Li, E., S. Li, and J. Endter-Wada. "Learning, Modeling, Envisioning: An Application of Integrated Water and Land Use Planning." Presentation at the American Water Resources Association (AWRA) Annual Water Resources



Conference, Portland, Oregon, USA, November 4-7, 2013.

- Li, E., J. Endter-Wada, and S. Li. "Coupling Water and Land Use Planning in Mega Cities: A Review of Theoretical, Political and Technical Integration Needs." Presentation at the American Water Resources Association (AWRA) 2013 International Specialty Conference: *Water for Mega Cities: Challenges and Solutions*, Beijing, China, September 16-18, 2013.
- Jackson-Smith, D., M. Buchert, M. Cannon, P. Stoker, J. Endter-Wada, E. Li, S. Li, S. Hinnners, C. Licon, Z. Ma. The Impact of Urban Form on Water Use and Management in the Intermountain West. Presentation at the International Symposium on Society and Resource Management, Estes Park, CO, USA, June 4-8, 2013.
- Endter-Wada, J., D. Glenn, C. Lewis, C.M.U Neale, R. Kjelgren. "Promoting Urban Water Use Accountability and Conservation through Providing Site-Specific Information Feedback on Appropriateness and Change in Landscape Irrigation." Presentation at the 19<sup>th</sup> International Symposium for Society and Resource Management, Estes Park, Colorado, USA, June 4-8, 2013.
- Welsh, L.W. and J. Endter-Wada. "Policy Debates over the Southern Nevada Water Authority Pipeline Project." Presentation at the 19<sup>th</sup> International Symposium for Society and Resource Management, Estes Park, Colorado, USA, June 4-8, 2013.
- Welsh, L.W. and J. Endter-Wada. "Policy Debates over the Southern Nevada Authority Pipeline Project." Presentation at the American Water Resources Association (AWRA) Annual Water Resources Conference, Jacksonville, Florida, USA, November 12-15, 2012.
- Endter-Wada, J., L.W. Welsh, and H. Ingram. "Principles for Allocating Scarce Water Resources: Deliberating Water Policy Designs in Changing Societal Contexts." Presentation at the American Water Resources Association (AWRA) Annual Water Resources Conference, Jacksonville, Florida, USA, November 12-15, 2012.
- Endter-Wada, J., R.K. Kjelgren, C.M.U. Neale, D.T. Glenn, and C. Lewis. "Metrics for Analyzing Appropriateness and Change in Urban Landscape Water Use." Presentation at the American Water Resources Association (AWRA) Annual Water Resources Conference, Jacksonville, Florida, USA, November 12-15, 2012.
- Endter-Wada, J., R.K. Kjelgren, C.M.U. Neale, D.T. Glenn, C. Lewis. "Metrics for Analyzing Appropriateness and Change in Urban Landscape Water Use." Presentation at the 18<sup>th</sup> International Symposium for Society & Resource Management, University of Alberta, Edmonton, Canada, June 17-21, 2012.
- Henderson, K.D., and J. Endter-Wada. "Using Analysis of a Triggering Event to Reveal Water Policy Challenges in Urbanizing Landscapes of the American West." Presentation at the 18<sup>th</sup> International Symposium for Society and Resource Management, University of Alberta, Edmonton, Canada, June 17-21, 2012.
- Rosenberg, D.E., J. Endter-Wada, A.J. Caplan, D.T. Glenn, G. Ballard, and K.D. Henderson. "Building an Interdisciplinary Research Program in Water Conservation: Approach, Preliminary Findings, and Next Steps." Presentation at the Sixth International Water Association (IWA) Efficient Conference entitled *Water Demand Management Challenge & Opportunities*. Amman, Jordan, March 29-April 2, 2011.
- Welsh, A., C.M.U. Neale, J. Endter-Wada, and R.K. Kjelgren. "Utilizing Remote Sensing Data to Analyze Urban Landscape Water Use." Presentation at Remote Sensing and Hydrology Symposium, Jackson Hole, Wyoming, USA, September 28, 2010.
- Endter-Wada, J., L.W. Welsh, R. Downard, and K. Kettenring. "Paradoxes in Adapting to Droughts: The Rationality of Locality." Poster presented at Great Salt Lake Issues Forum, Salt Lake City, Utah, USA, April 29, 2010.
- Welsh, A., J. Endter-Wada, C.M.U. Neale, and R.K. Kjelgren. "Software for Analyzing Municipal Water Data to Design Water Conservation Strategies." Poster presented at Great Plains – Rocky Mountain Division of Association of American Geographers Conference, Logan, Utah, USA, September 25-26, 2009.
- Welsh, L.W., J. Endter-Wada, and T. Selfa. "The Process of Adapting to Droughts: Humans Connected Through Hydrology and History in the Bear River Basin of Idaho, Utah and Wyoming." Presentation at American Water Resources Association 2009 Summer Specialty Conference entitled *Adaptive Management of Water Resources II*, Snowbird, Utah, USA, June 29, 2009.
- Welsh, A., J. Endter-Wada, C.M.U. Neale, and R.K. Kjelgren. "Software for Analyzing Municipal Water Data to Design Water Conservation Strategies." Poster presented at Utah Geographic Information Council Conference, Midway, Utah, USA, April 15-17, 2009.

- Endter-Wada, J. “Linking Development to Water Resources: Utah Case Studies.” Presentation at the Annual Meeting of the American Planning Association, Las Vegas, Nevada, USA, May 2008.
- Endter-Wada, J., D. Blahna, and L.E. Kruger. “Indicator and Measurement Needs for Describing the Social Environment of Public Lands.” Presentation at the 13<sup>th</sup> International Symposium on Society and Resource Management, Park City, Utah, USA, June 2007.
- Guenter, M., J. Endter-Wada, and R. Kjelgren. “Knowledge as a Niche: Independent Retail Garden Centers and the Market for Waterwise Plants and Landscaping.” Presentation at the 13<sup>th</sup> International Symposium on Society and Resource Management, Park City, Utah, USA, June 2007.
- Glenn, D., J. Endter-Wada, R. Kjelgren, and J. Hoover. “Residential Landscape Water Checks - Interventions to Promote Water Conservation Behavior.” Presentation at the 12<sup>th</sup> International Symposium on Society and Resource Management, Vancouver, British Columbia. June 2006.
- Kopp, K., R. Kjelgren, J. Endter-Wada, J. Hoover, D.T. Glenn, and E. Jackson. “A Landscape Water Conservation Program for Utah Homeowners.” Presentation at the annual meeting of the Association of Natural Resource and Environmental Professionals, Park City, Utah, USA, May 2006.
- Kilgren, D., R. Kjelgren, P. Johnson, and J. Endter-Wada. “A Case Study of Implementing Water Conservation in an Institutional Setting.” Presentation at the 10<sup>th</sup> International Turfgrass Research Conference, Llandudno, Wales, July 2005.
- Chandler, D., D. Jackson-Smith, J. Endter-Wada, T. Selfa, and W. Graham. “Long-term Hydrologic Observatories and Water Resource Sustainability: Opportunities for Integrated Water Management Research.” Poster presented at American Geophysical Union, San Francisco, California, USA, December 2004.
- Hooper, V.H., J. Endter-Wada, and C.W. Johnson. “Conservation Behavior and Native Plant Use in Utah.” Presentation at the 10<sup>th</sup> International Symposium on Society and Resource Management, Keystone, Colorado, USA, June 2004.
- Klien, C., J. Endter-Wada, J. Kurtzman, and R. Kjelgren. “Green Lawns and Wise Water Use.” Presentation at the 10<sup>th</sup> International Symposium on Society and Resource Management, Keystone, Colorado, USA, June 2004.
- Selfa, T. and J. Endter-Wada, “Community Participation in Natural Resource Management Projects: A Focus for International Comparative Analysis.” Presentation at the 10<sup>th</sup> International Symposium on Society and Resource Management, Keystone, Colorado, USA, June 2004.
- Endter-Wada, J. and D. Blahna. “Linkages to the Land: A Framework for Social Assessment and Impact Analysis on Public Lands.” Presentation at the 10<sup>th</sup> International Symposium on Society and Resource Management, Keystone, Colorado, USA, June 2004.
- Blahna, D., J. Endter-Wada, C. Klien, and J. Kurtzman, “Agency and Public Perceptions of Public Involvement Needs in Transportation Planning in Utah: Implications for Procedural Justice and Shared Learning.” Presentation at the 10<sup>th</sup> International Symposium on Society and Resource Management, Keystone, Colorado, USA, June 2004.
- Endter-Wada, J., D. Blahna, J. Kurtzman, C. Klien and M. Butkus. “Challenges Involved in Comprehensive and Innovative Transportation Planning.” Presentation at the 10<sup>th</sup> International Symposium on Society and Resource Management, Keystone, Colorado, USA, June 2004.
- Hooper, V.H., J. Endter-Wada, and C.W. Johnson. “Water Conservation and Native Plant Use in Utah.” Presentation at the Meeting of the Utah Chapter of the American Association of Landscape Architects (ASLA), Salt Lake City, Utah, USA, March 31, 2004.
- Endter-Wada, J. and J. Kurtzman. “Transportation Planning Challenges (A Utah Case Study).” Part of the session entitled: Transportation Planning for a New Generation: The Role of Public Involvement and Partnerships. Presentation at the national conference *Joint Ventures: Partners in Stewardship*, Los Angeles, California, USA, November 18, 2003.
- Erickson, M., W. Curtis, K. Duffy, and J. Endter-Wada. “Social-Economic Assessment: Dixie, Fishlake, and Manti-La Sal National Forests.” Panel presentation at the 16<sup>th</sup> Annual Utah Rural Summit entitled *Collaborative Land Use Planning in the Intermountain West*, Cedar City, Utah, USA, August 7, 2003.

- Bedel, M., W. Curtis, K. Utley, S. Kerr, and J. Endter-Wada. "Impacting Public Lands Decisions Through Local Planning - Opportunities for County Land Planning in FLPMA." Presentation at the Rural Summit held at Southern Utah University, Cedar City, Utah, USA, September 4-5, 2002.
- Hooper, V.H., J. Endter-Wada, C. Johnson, and J. Kurtzman. "Growing with Natives: The Changing Utah Native Plant Market." Poster presented at the 9<sup>th</sup> International Symposium on Society and Resource Management (ISSRM), Indiana University, Bloomington, Indiana, USA, June 2-6, 2002.
- Endter-Wada, J., R. Kjelgren, and J. Kurtzman. "Landscape Water Conservation: Behaviors, Perceptions and Motivations." Presentation at the 9<sup>th</sup> International Symposium on Society and Resource Management (ISSRM), Indiana University, Bloomington, Indiana, USA, June 2-6, 2002.
- Keenan, S. and J. Endter-Wada. "Promoting Conservation Behavior in a Municipally-Owned Electric Utility: Should We Change Behavior or Change the System?" Presentation at the 9<sup>th</sup> International Symposium on Society and Resource Management (ISSRM), Indiana University, Bloomington, Indiana, USA, June 2-6, 2002.
- Kjelgren, R.K., K. Kopp, F. Farag, C.M.U. Neale, and J. Endter-Wada. "Landscape water demand analysis." Presentation at the Annual Meeting of the Intermountain Section of the American Water Works Association, Mesquite, NV, USA, September 10-14, 2001.
- Endter-Wada, J. "Natural Resource Policy in the Making: The Utah Fish Health Policy Board." Presentation at the 8<sup>th</sup> International Symposium for Society and Resource Management (ISSRM), Western Washington University, Bellingham, Washington, USA, June 17-22, 2000.
- Endter-Wada, J. and J. Kurtzman. "Factors Affecting Water Use on Residential Landscapes in an Urban Utah Community." Presentation at the 8<sup>th</sup> International Symposium for Society and Resource Management (ISSRM), Western Washington University, Bellingham, Washington, USA, June 17-22, 2000.
- Kurtzman, J., J. Endter-Wada, and D. Blahna. "Utah's Rural Communities: Planning for the Future." Presentation at the 8<sup>th</sup> International Symposium for Society and Resource Management (ISSRM), Western Washington University, Bellingham, Washington, USA, June 17-22, 2000.
- Kjelgren, D. and J. Endter-Wada. "Implementing Landscape Water Conservation in an Institutional Setting." Presentation at the 8<sup>th</sup> International Symposium for Society and Resource Management (ISSRM), Western Washington University, Bellingham, Washington, USA, June 17-22, 2000.
- Keenan, S., R. Little, and J. Endter-Wada. "Commercial Harvesters' Perceptions of Resource Management in the California Bight." Presentation at the 7<sup>th</sup> International Symposium on Society and Resource Management (ISSRM), University of Missouri-Columbia, Columbia, Missouri, USA, May 27-31, 1998.
- Endter-Wada, J., L. Hunter, and J. Kurtzman. "Exploring the Use of Typologies to Enhance Rural Community Planning." Presentation at the 7<sup>th</sup> International Symposium on Society and Resource Management (ISSRM), University of Missouri-Columbia, Columbia, Missouri, USA, May 27-31, 1998.
- McCann, B. and J. Endter-Wada. "Sport Hunting and Fishing and the Alaska Subsistence Priority." Presentation at the 7<sup>th</sup> International Symposium on Society and Resource Management (ISSRM), University of Missouri-Columbia, Columbia, Missouri, USA, May 27-31, 1998.
- McCann, B., J. Endter-Wada, and S. Keenan. "Technology in Alaskan Subsistence Practices: Implications of the Customary and Traditional Determinations." Presentation at the 7<sup>th</sup> International Symposium on Society and Resource Management (ISSRM), University of Missouri-Columbia, Columbia, Missouri, USA, May 27-31, 1998.
- Keenan, S.P., J. Endter-Wada, R. Little, and B. McCann. "Adaptive Changes by Commercial Fish Harvesters from Central California Ports." Presentation at the 7<sup>th</sup> International Symposium on Society and Resource Management (ISSRM), University of Missouri-Columbia, Columbia, Missouri, USA, May 27-31, 1998.
- van Zwoll, W. and J. Endter-Wada. "Effects of Post-War Changes in Hunting Motive and Method on Hunting's Public Image and on Big Game Management." Presentation at the 7<sup>th</sup> International Symposium on Society and Resource Management (ISSRM), University of Missouri-Columbia, Columbia, Missouri, USA, May 27-31, 1998.
- Endter-Wada, J. and R.S. Krannich. "The Interdisciplinary Natural Resource and Environmental Policy Program at Utah State University." Presentation at the Second Biennial Conference on University Education in Natural Resources, Utah State University, Logan, Utah, USA, March 7-10, 1998.

- Endter-Wada, J. “Empirical Findings of the Social Indicators Project.” Presentation at the Social Indicators Monitoring Study Peer Review Workshop, Anchorage, Alaska, USA, June 18-19, 1996.
- Endter-Wada, J., D. Blahna, R. Krannich, and M. Brunson. “A Framework for Understanding Social Science Contributions to Ecosystem Management.” Presentation at the 6<sup>th</sup> International Symposium on Society and Resource Management (ISSRM), Pennsylvania State University, State College, Pennsylvania, USA, May 18-23, 1996.
- Keenan, S.P., J. Endter-Wada, and R.L. Little. “The Social-Structural Context of Fish Harvesting in the Santa Barbara Channel-Santa Maria Basin Area, California: Toward an Institutional Analysis of Resource Management.” Presentation at the 6<sup>th</sup> International Symposium on Society and Resource Management (ISSRM), Pennsylvania State University, State College, Pennsylvania, USA, May 18-23, 1996.
- Endter-Wada, J. “Integrating Human Activities into Ecosystem Management and Science.” Presentation at the International Studies Association 37th Annual Convention, San Diego, California, USA, April 18-22, 1996.
- Endter-Wada, J. and D.W. Levine. “Social Structure of Subsistence in Bristol Bay, Alaska.” Presentation at the 5<sup>th</sup> International Symposium on Society and Resource Management (ISSRM), Colorado State University, Ft. Collins, Colorado, USA, June 7-10, 1994.
- Endter-Wada, J. “Resource Management and Subsistence in Alaska.” Presentation at the Annual Meeting of the American Anthropological Association, Washington D.C., USA, November 16-20, 1993.
- Endter-Wada, J. “A Comparison of Community Responses to Nuclear Testing and the Exxon Valdez Oil Spill.” Presentation at the Annual Meeting of the American Anthropological Association, San Francisco, California, USA, December 2-6, 1992.
- Endter-Wada, J. “Changing Subsistence Roles in Bristol Bay, Alaska.” Presentation at the Annual Meeting of the Rural Sociological Society, Pennsylvania State University, State College, Pennsylvania, USA, August 16-19, 1992.
- Endter-Wada, J. and R.L. Little. “Rural Responses to Natural Resource Dependency.” Presentation at the Annual Meeting of the Rural Sociological Society, Pennsylvania State University, State College, Pennsylvania, USA, August 16-19, 1992.
- Endter-Wada, J. “Cross-Cultural Comparisons of Local Expectations about Water Development.” Presentation at the Joint Meetings of the Western Social Science Association and the Association of Arid Lands Studies, Denver, Colorado, USA, April 22-25, 1992.
- Endter-Wada, J. “Policy Implications of Findings from the Bristol Bay Subsistence Study.” Presentation at the Annual Meeting of the Society for Applied Anthropology, Memphis, Tennessee, USA, March 25-29, 1992.
- Endter-Wada, J. and R. Mason. “The Social and Economic Impacts of the Exxon Valdez Oil Spill on Kodiak, Alaska.” Presentation at the Annual Meeting of the Society for Applied Anthropology, Memphis, Tennessee, USA, March 25-29, 1992.
- Endter-Wada, J. and L.A. Robbins. “A Comparative, Subregional Analysis of Subsistence Practices in the Bristol Bay Region of Alaska.” Presentation at the Fourth Minerals Management Service-AOCS Region Information Transfer Meeting, Anchorage, Alaska, USA, January 28-30, 1992.
- Endter-Wada, J. “Social, Economic, and Subsistence Effects of the Exxon Valdez Oil Spill on the Kodiak Region.” Presentation at the Fourth Minerals Management Service-AOCS Region Information Transfer Meeting, Anchorage, Alaska, USA, January 28-30, 1992.
- Endter, J.L. “Negotiating Over Indian Water Rights: The Case of the Northern Ute.” Presentation at the Annual Meeting of the Southwest Anthropological Association, Long Beach, California, USA, April 1990.
- Endter, J.L. “Nuclear Policy in Nevada: Nuclear Testing and Storage of Nuclear Waste.” Presentation at the Annual Meeting of the Society for Applied Anthropology, Santa Fe, New Mexico, USA, April 1989.
- Little, R.L., R.S. Krannich, and J.L. Endter. “The Continuing Saga of Caliente: The Persistence of Community Following Death by Dieselization.” Presentation at the annual meeting of the Rural Sociological Society, Athens, Georgia, USA, August 1988.
- Endter, J.L. “Cultural Differences and the Political Economy of Water in Utah.” Presentation at the Annual Meeting of the Western Social Science Association, El Paso, Texas, USA, April 1987.

- Endter, J.L. “Water and Culture in the United States West.” Presentation at the Annual Meeting of the Southern Sociological Society, Atlanta, Georgia, USA, April 1987.
- Endter, J.L. “Water and Culture in the United States West: A Comparative Analysis of Values and Beliefs about Water Held by Northern Ute Indians and Rural Mormons.” Presentation at the Annual Meeting of the Southwestern Anthropological Association, Bakersfield, California, USA, March 1987.
- Endter, J.L. “A History of Cultural Conflicts Over Water Use in Rural Eastern Utah.” Presentation at the Annual Meeting of the Southwestern Social Science Association held in conjunction with the Southwestern Historical Association, Dallas, Texas, USA, March 1987.
- Endter, J.L. “Water and Culture in the United States West.” Presentation at the Annual Meeting of the National Association for Ethnic Studies, San Diego, California, USA, February 1987.

### **Invited Public and Policy-Related Presentations**

- Endter-Wada, J. Water Efficient Landscaping. Invited presentation for the Wasatch Front Land & Water Integration Webinar Series. Sponsored by Western Resource Advocates. Online. October 9, 2020.
- McGinty, C., C. Garrard, E.L. McGinty, and J. Endter-Wada. WaterMAPS™: Insights into Urban Landscape Water Use Patterns. Presented as part of the Utah State University Center for Water-Efficient Landscaping Virtual Field Day. June 18, 2020.
- Endter-Wada, J. “Promoting Urban Landscape Water Conservation.” Invited presentation for the Utah League of Women Voters. April 29, 2016.
- Endter-Wada, J. Testimony on Universal Metering, Conservation Pricing, Infrastructure Repair & Replacement. For the Natural Resources, Agriculture and the Environment Interim Committee of the Utah Legislature. June 17, 2015.
- Endter-Wada, J. “Metrics, Mechanisms and Messages for Promoting Urban Landscape Water Conservation.” Invited presentation for the Utah Water Conservation Forum, held at the Jordan Valley Water Conservancy District Education Center, West Jordan, Utah, USA, May 8, 2015.
- Endter-Wada, J. “Using New Technologies to Facilitate Human Cooperation in Managing Scarce Water.” Invited presentation at the Rural Water Technology Alliance Annual Training and Water Management Technologies Conference, Provo, UT, USA, March 5, 2015.
- Endter-Wada, J. “Information Technologies to Support Water Conservation.” Invited presentation at the 21<sup>st</sup> Annual Utah Water Summit, Utah Valley Convention Center, Provo, Utah, USA, October 28, 2014.
- Endter-Wada, J. “Ways of Knowing: Humans Connected through Hydrology and History in the Bear River Basin.” Invited presentation to staff of the Utah Division of Water Rights, Garden City, Utah, USA, October 2, 2013.
- Paxman, S. and J. Endter-Wada. “Weber Basin Secondary System Metering Project: Information Provision for Urban Water Use Accountability.” Invited presentation, Utah Water Users Workshop, St. George, Utah, USA, March 18-20, 2013.
- Endter-Wada, J., C.M.U. Neale, R. Kjelgren. “WaterMAPS: Update on USU Software Tool for Evaluating Urban Landscape Water Use Efficiency.” Invited presentation for meeting of water conservancy districts and conservation coordinators from Utah and Colorado, held at the offices of the Central Valley Water Conservancy District, Orem, Utah, USA, Dec. 12, 2012.
- Endter-Wada, J., R.K. Kjelgren, C.M.U. Neale, C. Lewis, D.T. Glenn. “Landscape Water Use Software: Demonstration and Discussion.” Invited webinar hosted by the Western Water Assessment, Boulder, Colorado, USA, June 29, 2013.
- Endter-Wada, J., C.M.U. Neale, R. Kjelgren, A. Welsh, and D.T. Glenn. “Tools for Assessing Urban Landscape Water Use Efficiency.” Invited presentation for meeting of water conservancy districts and conservation coordinators from Utah and Colorado, held at the offices of the Jordan Valley Water Conservancy District, West Jordan, Utah, USA, September 28, 2011.
- Endter-Wada, J., C. M.U. Neale, R. Kjelgren, A. Welsh, and D.T. Glenn. “Tools for Assessing Urban Landscape Water Use Efficiency.” Invited presentation for meeting of water conservancy districts and conservation coordinators from Utah and Colorado, held at the offices of the Northern Colorado Water Conservancy District. Berthoud, Colorado, USA, Sept. 16, 2010.

- Endter-Wada, J. “Cooperation Over Water in the Bear River Basin.” Invited presentation for the Utah-Idaho Legislative Rendezvous at Bear Lake. Fishlake, Utah, USA, June 27, 2009.
- Endter-Wada, J. “Social Aspects of Water Delivery: Responding to the 2004 Drought in the Bear River Basin.” Invited presentation at the Northern Utah Mini Water Conference, Logan, Utah, USA, March 31, 2009.
- Kopp, K., J. Hoover, and J. Endter-Wada. “Detailed Analyses of Residential Water Check Program.” Invited presentation to the Conservation Board of the Jordan Valley Water Conservancy District, West Jordan, Utah, USA, January 2007.
- Endter-Wada, J. “Adopting Positive Water Policies.” Invited presentation at the Southwest Marketing Network, Flagstaff, Arizona, USA, March 15, 2004.
- Endter-Wada, J. Radio Interview with Lee Austin at KUSU-FM for Access Utah concerning the new National Environmental Policy Act (NEPA) Certificate Program, Logan, Utah, USA, May 2002.
- Endter-Wada, J. “Humans as Components of Ecosystems.” Invited presentation for the U.S. Forest Service Region 4 Timber Staff Officers Workshop, Salt Lake City, Utah, USA, December 1994.
- Endter-Wada, J. “Subsistence Issues in Alaska's National Parks.” Invited presentation to the Bridgerland Audubon Society, Logan, Utah, USA, May 1994.

**Presentations about the Utah Forest Practices Task Force (8)**

- Endter-Wada, J. Testimony on proposed Utah forest practices legislation presented in hearings held by the Energy, Natural Resources, and Agriculture Subcommittee of the Utah Legislature, Salt Lake City, Utah, USA, February 1997.
- Endter-Wada, J. “Findings and Recommendations of the Utah Forest Practices Task Force.” Invited presentation to the Wasatch Front Chapter Meeting of Society of American Foresters, Ogden, Utah, USA, November 1996.
- Endter-Wada, J. Radio Interview with Lee Austin at KUSU-FM for Access Utah concerning the work of the Utah Forest Practices Task Force, Logan, Utah, USA, October 1996.
- Endter-Wada, J. “Findings and Recommendations of the Utah Forest Practices Task Force.” Invited presentation to the Blacksmith Fork Soil Conservation District, Logan, Utah, USA, October 1996.
- Endter-Wada, J. “Overview of Findings and Recommendations by the Utah Forest Practices Task Force.” Requested Presentation to the Energy, Natural Resources, and Agriculture Interim Committee of the Utah Legislature, Salt Lake City, Utah, USA, September 1996.
- Endter-Wada, J. “Utah Forest Practices Task Force Report.” Invited presentation to the Semi-Annual Meeting of the Natural Resources Coordinating Council for the State of Utah, Salt Lake City, Utah, USA, September 1996.
- Endter-Wada, J. “Findings and Recommendations of the Utah Forest Practices Task Force.” Invited presentation to the Division of Forestry, Fire, and State Lands Advisory Council, Salt Lake City, Utah, USA, September 1996.
- Endter-Wada, J. “The Work of the Utah Forest Practices Task Force.” Invited presentation to the Utah Forest Stewardship Coordinating Committee, Cedar City, Utah, USA, September 1996.

**Professional Short Course Presentations (J. Endter-Wada, presenter)**

- “Human Dimensions for Ecosystem Management.” Three full days of presentations for Module I of Continuing Education in Ecosystem Management (CEEM), delivered to federal and state resource managers. Logan, Utah, USA: Fall 2007; Fall 2008; Fall 2009.
- “Social Impact Analysis for NEPA Specialists.” Two-day course presented as part of the NEPA Certificate Program, Utah State University. Logan, Utah: 12/2003. Salt Lake City, Utah, USA: 05/2005.
- “Conceptual Aspects of Human Dimensions of Ecosystem Management.” Two-day presentation for Module I of Continuing Education in Ecosystem Management (CEEM), delivered to federal and state resource managers. Logan, Utah, USA: 1/1995, 11/1995, 11/1996, 11/1997, 10/1998, 11/1999, 10/2000, 10/2001, 10/2002, 11/2003, 10/2004, 10/2005, 11/2006. (The first three presented with R.S. Krannich).
- “Contextual Aspects of Human Dimensions of Ecosystem Management.” Two-day presentation for Module II of Continuing Education in Ecosystem Management (CEEM), delivered to federal and state resource managers. Flagstaff, Arizona, USA: 2/1995, 2/1996, 2/1997. (The first two presented with R.S. Krannich).

- “Understanding People: Interview Procedures and Techniques.” One-day presentation for Module III of Continuing Education in Ecosystem Management (CEEM), delivered to federal and state resource managers. Ft. Collins, Colorado, USA: 4/2003, 4/2004, 4/2005, 4/2006, 4/2007.

### **Utah State University Research Presentations** (12 invited; 16 contributed)

- Duer, S., J. Endter-Wada, and S. Yeo. “How Collaboration Connects University Research and Water Conservation Program Impacts.” Contributed presentation at USU Spring Run-Off Conference, Logan, UT, March 28-29, 2017.
- Endter-Wada, J. “Social and Policy Science Contributions to Promoting Urban Landscape Water Conservation.” Invited presentation for the Department of Plants, Soils, and Climate, Logan, UT, January 27, 2014.
- Welsh, L.W. and J. Endter-Wada. “Policy Debates over the Southern Nevada Water Authority Pipeline Project.” Contributed presentation at USU Spring Run-Off Conference, Logan, UT, April 9-10, 2013.
- Li, E., S. Li, and J. Endter-Wada. “Water-smart growth: Integrating water management and land use planning.” Contributed presentation at USU Spring Run-Off Conference, Logan, UT, April 9, 2013.
- Endter-Wada, J. “Approaches for Promoting Urban Landscape Water Use Accountability and Conservation.” Invited presentation for Department of Environment and Society seminar series, Logan, UT, March 5, 2013.
- Endter-Wada, J., R.K. Kjelgren, C.M.U. Neale, D.T. Glenn, C. Lewis. “Metrics for Analyzing Appropriateness and Change in Urban Landscape Water Use.” Contributed presentation, USU Spring Run-Off Conference, Logan, UT, April 3, 2012.
- Endter-Wada, J. “Conceptualizing and Analyzing Human Hydrologic Interdependencies.” Invited presentation for USU’s NSF Water Sustainability and Climate Workshop Series, Logan, UT, January 10, 2011.
- Endter-Wada, J., L.W. Welsh, R. Downard, and K. Kettenring. “Paradoxes in Adapting to Droughts: The Rationality of Locality.” Contributed case study video showing, USU Spring Run-Off Conference, Logan, UT, April 21, 2010.
- Welsh, L.W. and J. Endter-Wada. “Geopolitical Influences on Human Vulnerability to Drought: Comparing the Upper and Lower Divisions of the Bear River Basin.” Contributed poster, USU Spring Run-Off Conference, Logan, UT, April 20, 2010.
- Downard, R., J. Endter-Wada, and K. Kettenring. “Keeping Wetlands Wet: Adapting to Uncertain Water Conditions at Bear River Migratory Bird Refuge.” Contributed poster, USU Spring Run-Off Conference, Logan, UT, April 20, 2010.
- Downard, R., J. Endter-Wada, and K. Kettenring. “Keeping Wetlands Wet: Wetland Policies and Politics in the Bear River Basin.” Contributed poster, USU Spring Runoff Conference, Logan, UT, April 2-3, 2009.
- Welsh, A., J. Endter-Wada, C.M.U. Neale, and R.K. Kjelgren. “Software for Analyzing Municipal Water Data to Design Water Conservation Strategies.” Contributed poster, USU Spring Runoff Conference, Logan, UT, April 2-3, 2009.
- Endter-Wada, J. “Landscape Water Use Efficiency as Contextualized Systems Thinking.” Invited presentation for the College of Natural Resources Research Seminar Series. Logan, UT, September 24, 2008.
- Endter-Wada, J., D.T. Glenn, C.M.U. Neale, and R.K. Kjelgren. “Demand Management for Growth in Drought-Prone Regions: Outcomes from Logan Landscape Water Check Interventions.” Contributed presentation, USU Spring Run-off Conference, Logan, UT, April 2008.
- Endter-Wada, J., and T. Selfa. “Responding to Drought in the Bear River Basin of Idaho, Utah, and Wyoming.” Contributed presentation at the Bear River Symposium, Utah State University, Logan, UT, September 2007.
- Guenter, M., J. Endter-Wada, and R. Kjelgren. “Knowledge as a Niche: Independent Retail Garden Centers and the Market for Waterwise Plants and Landscaping.” Contributed presentation at the Bear River Symposium, Utah State University, Logan, UT, September 2007.
- Glenn, D.T., J. Endter-Wada, R. Kjelgren, and C. Neale. “Residential Landscape Water Checks: Building Water Conservation Skills.” Contributed presentation at USU Spring Run-off Conference, Logan, UT, April 2007.
- Endter-Wada, J. and J. Kurtzman. “Landscape Water Conservation.” Invited presentation at Old Main Society Dinner, Utah State University, Logan, UT, April 1, 2004.
- Endter-Wada, J., J. Kurtzman, R. Kjelgren, and D. Kilgren. “Understanding Water Conservation.” Contributed presentation, USU Spring Runoff Conference, Logan, UT, March 25, 2004.

- Hooper, V.H., J. Endter-Wada, and C.W. Johnson. “Conservation Behavior and Native Plant Use in Utah.” Contributed presentation, USU Spring Runoff Conference, Logan, UT, March 26, 2004.
- Klien, C., J. Endter-Wada, J. Kurtzman, and R. Kjelgren. “Green Lawns and Wise Water Use.” Contributed presentation, USU Spring Runoff Conference, Logan, UT, March 26, 2004.
- Endter-Wada, J. “Managing the Bear River: Drought, Water Quality, and Growing Demand.” Invited panel member discussant, USU Spring Runoff Conference, Logan, UT, March 26, 2004.
- Endter-Wada, J. “Policy Aspects of Maintaining Healthy Fish Populations in Utah.” Invited presentation for the Division of Environmental Engineering Seminar Series, Logan, UT, February 7, 2001.
- Endter-Wada, J. “Fish Health Administration in Utah: Experiences in Chairing Utah’s Fish Health Policy Board.” Invited presentation for the Fisheries and Wildlife Departmental Seminar Series, Logan, UT, April 2000.
- Endter-Wada, J. “Social Science Dimensions of Natural Resource Policy.” Invited presentation for the Plant, Soils, and Biometeorology Departmental Seminar Series, Logan, UT, March 1997.
- Endter-Wada, J. “A New State Forest Practices Act for Utah.” Invited joint presentation for the Department of Forest Resources Graduate Seminar Series and the Natural Resource and Environmental Policy Program Seminar Series, Logan, UT, October 1996.
- Endter-Wada, J. “Social Science Contributions to Ecosystem Management.” Invited presentation for the Forest Resources Departmental Seminar Series, Logan, UT, December 1994.
- Endter-Wada, J. “A Natural Resources Policy Center.” Invited presentation for the Forest Resources Departmental Seminar Series, Logan, UT, Oct. 1991.

## **ACADEMIC PROGRAM DEVELOPMENT AND ADMINISTRATION (Utah State University)**

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### **Academic Programs Developed and Administered:**

#### **National Environmental Policy Act (NEPA) Graduate Certificate, 2002-present (Director)**

A 12-unit graduate certificate program that trains natural resource professionals in implementation of the National Environmental Policy Act (NEPA). [More information above under “Major Programs”]

#### **Natural Resource and Environmental Policy Program, 1991-2005 (Director)**

This campus-wide academic program sponsored policy-related interdisciplinary activities. It provided students with perspectives and skills for dealing with challenges related to allocating scarce resources, protecting and restoring critical lands, and ensuring future environmental quality that underpins vibrant economies and lifestyles. Activities included the following:

- Interdisciplinary Graduate Certificate in Natural Resource and Environmental Policy, 1994-2004  
A 12-unit, academic graduate certificate that required students to complete interdisciplinary coursework and culminate their training by giving a public presentation on the policy dimensions of their thesis or dissertation research.
- Natural Resource and Environmental Policy Seminar Series, 1992-2003  
This well-attended campus seminar series brought 164 prominent speakers from government, NGOs, the private sector, policy think tanks, and academia to campus to give policy-related presentations and interact with students and faculty.
- Partners in Science Graduate Student Internship and Fellowship Program, 2003-2005  
An internship and scholarship program sponsored by the Bureau of Land Management (BLM) where students conducted policy-related research for land management agencies and produced reports on their findings.
- A regional symposium in 1993 entitled “Conflicts in Natural Resources Management: Integrating Social and Ecological Concerns” (with published proceedings).



### **Academic Program Grants: (total of \$401,100 from 1991-2003)**

- Program Enhancement Grant for the Natural Resource and Environmental Policy Program from the S. J. and Jessie E. Quinney Foundation, Salt Lake City, Utah, 1998-2003. Amount: \$250,000.
- Partners in Science Student Internship and Fellowship Program Grant from the United States Bureau of Land Management, Utah State Office, 1998-2002 with matching funds from the S. J. and Jessie E. Quinney Foundation, Salt Lake City, Utah. Amount: \$50,100.
- Seminar Series Funding for the Natural Resource and Environmental Policy Program Seminar Series from the College of Humanities, Arts, and Social Sciences at USU, 1995-2003. Amount: \$4,000 annually for a total of \$36,000 over nine years.
- Seminar Series Funding for the Natural Resource and Environmental Policy Program Seminar Series from the College of Natural Resources, 1993-2003. Amount: \$8,000 annually from July 1993-June 1995 and \$4,000 annually from July 1995-June 2003 for a total of \$48,000 over ten years.
- Natural Resources and Environmental Policy Academic Program Development Project. Academic Program Enhancement Fund, Utah State University, 1992. Amount: \$12,000.
- Natural Resources Policy Seminar Series. Quinney Visiting Scholars Fund, College of Natural Resources, Utah State University, 1992. Amount: \$5,000.

## **UNIVERSITY TEACHING and ADVISING**

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### **Utah State University**

#### **Courses Taught:**

- Research Approaches in Human Dimensions of Ecosystem Science & Management (graduate course, 3 units): 2007-2016
- Water Law and Policy (undergraduate and graduate, 3-4 units): 1993-present
- Professional Orientation for Environment and Society (undergraduate, 2 units): 2004, 2007, 2009
- Natural Resource Policy Cornerstone Seminar (graduate, 3 units): 1995-2003
- Natural Resource Policy (undergraduate, 4 units): 1992-2002
- Social Impact Assessment for NEPA Specialists (graduate, 1 unit): 2003, 2005
- Diversity Issues in Natural Resource Management (graduate & undergraduate, 1 unit): 1995
- Natural Resource Management Conflicts (graduate, 1 unit): 1993

#### **Courses Facilitated:**

- Natural Resource Policy Seminar Series (graduate and undergraduate, every term, 1 unit): 1994-2003
- Wallace Stegner Symposium Seminar (graduate and undergraduate, 1 unit): 2000-2002
- Sustainable Landscapes Seminar (graduate and undergraduate, 1 unit): 2000
- Natural Resource Policy Student Presentations (graduate, every term, 1 unit): 1995-1999

#### **Major Professor and Chair of Graduate Student Committees:**

##### **Current Students:**

###### *Environment and Society:*

- Clint Carney (PhD)

###### *Ecology:*

- Christopher McGinty (PhD)

###### *Master of Natural Resources (MNR):*

- Chair (2 students)      - Committee Member (6 students)

**Completed PhD and M.S. Students:**

*Doctor of Philosophy (Ph.D. degrees)*

- Li, Enjie. (Ph.D. in Human Dimensions of Ecosystem Science and Management, 2016). Dissertation: “Land Use Dynamics and Implications for Water Management in the Urbanizing Wasatch Range Metropolitan Area of Utah.”
- Welsh, Lisa W. (Ph.D. in Human Dimensions of Ecosystem Science and Management, 2014). Dissertation: “Policy Designs to Address Water Allocations During Societal Transitions: The Southern Nevada Water Authority’s Groundwater Development Project”
- van Zwoll, Wayne (Ph.D. in Forestry, 2000). Dissertation: “Post-World War II Changes in Big Game Hunting Motive and Method in the United States and Implications for Wildlife Policy”

*Master of Science (M.S. degrees)*

- J. Ivy Harvey Thomson. (M.S. in Environment and Society, 2020). Thesis: “Evaluation of Best Practices for Urban Water Conservation and Water-Smart Growth Implementation in Utah.”
- Roos, Bonnie. (M.S. in Human Dimensions of Ecosystem Science and Management, 2016). Thesis: “Balancing Agricultural and Urban Water Needs in Transitioning Arid Landscapes.”
- Henderson, Kathryn Davis (M.S. in Human Dimensions of Ecosystem Science and Management, 2012). Thesis: “Water Infrastructure Challenges in Urbanizing Environments: A Case Study of the 2009 Logan Canal Landslide”
- Welsh, Adrian. (M.S. in Human Dimensions of Ecosystem Science and Management, 2011). Project: “Software for Analyzing Municipal Water Data to Design Water Conservation Strategies”
- Downard, Rebekah (M.S. in Human Dimensions of Ecosystem Science and Management, 2010). Thesis: “Keeping Wetlands Wet: The Human Hydrology of Wetlands in the Bear River Basin”
- Glenn, Diana (M.S. in Human Dimensions of Ecosystem Science and Management, 2010). Thesis: “Residential Landscape Water Check Programs: Exploring a Conservation Tool”
- Guenter, Megan (M.S. in Horticulture, 2006). Thesis: “The Role of Utah Garden Centers in Furthering Public Knowledge about Waterwise Plants and Landscaping” [Co-major professor with Roger Kjelgren, Plants, Soils and Biometeorology]
- Klien, Christina (M.S. in Human Dimensions of Ecosystem Science and Management, 2004). Thesis: “Understanding Household Water Conservation”
- Hooper, Virginia Harding (Master of Landscape Architecture, 2003). Thesis: “Understanding Utah’s Native Plant Market: Coordinating Public and Private Interest” [Co-major professor with Craig Johnson, Landscape Architecture and Environmental Planning]
- Cottam, Brian L. (M.S. in Forestry, 1999). Thesis: “An Examination of Community-Based Natural Resource Use Cooperatives and Implications for the Southern Utah Forest Products Association”
- Kurtzman, Judith A. (M.S. in Forestry, 1999). Thesis: “Utah’s Rural Communities: Planning for the Future”
- McCann, Bridget A. (M.S. in Forestry, 1999). Thesis: “Effects of Hunting and Fishing on Alaskan Subsistence Practices: Constraints and Opportunities”
- Brennan, Amy E. (M.S. in Forestry, 1998). Thesis: “Grassroots of the Desert: An Analysis of the Roles of the Utah Wilderness Association and the Southern Utah Wilderness Alliance in the Debate over Wilderness Designation of Bureau of Land Management Lands in Southern Utah”
- Dennis-Perez, Lisa (M.S. in Forestry, 1997). Thesis: “Interactive Effects of Hydrology, Geomorphology, and Land Use on Regeneration of Cottonwoods in Chalk Creek, Utah”
- Roloff, Michael O. (M.S. in Forestry, 1995). Thesis: “Integrating Social Assessment into Forest Ecosystem Management”

**Member of Graduate Student Committees: (117)**

American Studies (2)	Human Dimensions - Ecosystem Science & Manage. (6)
Bioregional Planning (2)	Landscape Architecture & Environmental Planning (6)
Civil and Environmental Engineering (2)	Master of Natural Resources (35)
Climate Science (1)	Master of Professional Studies in Horticulture (25)
Forest Resources (3)	Plant, Soils and Climate (2)
Geography (1)	Political Science (1)
History (5)	Recreation Resource Management (1)
Horticulture (18)	Sociology (8)
	Watershed Sciences (2)

**Other Teaching – Faculty Teaching Advisor** (advised 57 individualized student experiences)

iUTAH Summer Fellows, co-advisor (2)  
Undergraduate Student Internships, Environmental Studies (10)  
Partners in Science Graduate Internship, Natural Resource and Environmental Policy (1)  
Senior Honors Thesis, Environmental Studies (1)  
Senior Internship; Student from Huxley College, Western Washington University (1)  
Graduate Student Independent Studies (16)  
Undergraduate Student Independent Studies (15)  
Undergraduate Research Projects (4)  
Undergraduate Internships (7)

**Guest Lectures in USU Courses (65)**

- “Perspectives on Water Issues in Cache County and Utah.” Guest lecture for Huntsman Scholars at USU Connections. Aug. 27, 2015. (1)
- Organized and conducted 2-hour field trip in Logan, Utah on urban water conservation for WILD 2000. April 20, 2015. (1)
- “Adapting to Drought in the Western U.S.: Balancing Agricultural, Wetland, and Urban Water Needs.” Graduate Student Seminar in Environment and Society, March 2, 2015. (1)
- “Overview of Research and Teaching Contributions in ENV5 and at USU.” Guest presentation in ENV5 6840/7840, Graduate Student Orientation Seminar in Environment and Society, Annually, Fall 2003-2017. (14)
- “Perspectives on Theory for Human Dimensions of Ecosystem Science and Management.” Guest lecture for ENV5 6000/7000, Theoretical Approaches in Human Dimensions of Ecosystem Science and Management, Oct. 27, 2009. (1)
- *Two guest lectures* on “Natural Resource and Environmental Policy” for ENV5 3000, Natural Resource Policy and Economics, Oct. 28 and 30, 2008. (2)
- *Series of five guest lectures* on “Qualitative Research Techniques” for ENV5 6700/7700, Research Approaches in Human Dimensions of Ecosystem Science and Management, Feb. 14, 21, 26 and March 4, 6, 2008. (5)
- “Contested Space: Water and Public Policy.” Guest Lecture for English/History 5690, American Studies Capstone Class, Feb. 13, 2008. (1)
- *Two guest lectures* for ENV5 6000/7000, Theoretical Foundations in Human Dimensions of Ecosystem Science and Management: “Perspectives on Theory for Human Dimensions of Ecosystem Science and Management” (Nov. 1, 2007); “Perspectives on Political-Economic Theory & Natural Resource Policy” (Nov. 13, 2007). (2)
- “Linkages to Public Land Framework.” Guest lecture for ENV5 6000/7000, Theoretical Foundations in Human Dimensions of Ecosystem Science and Management, Nov. 27, 2006 (1)

- *Series of three guest lectures* on Qualitative Research Techniques for ENVS 6700/7700, Research Approaches in Human Dimensions of Ecosystem Science and Management, Feb. 9, 14, 16 of 2006 and Feb. 8, 10, 15 of 2005. (6)
- “Connections between Natural Resource Policy and Social Science and the Interests of Landscape Architecture and Environmental Planning.” Guest lecture for LAEP 6860, Landscape Architecture and Environmental Planning Interdisciplinary Seminar: Nov. 17, 2004; Nov. 5, 2003; Nov. 6, 2002; Oct. 25, 2000. (4)
- “Historical Overview of Natural Resource Policy.” Guest Lectures for ENVS 3000, Natural Resource Policy and Economics: Sept. 14, 2004; Sept. 9, 2002; Sept. 5, 200; Nov. 6, 2000. (4)
- “Career Opportunities for Anthropologists in Environmental Fields.” Faculty discussant in Anthropology 3150, Fields Methods and Career Options in Anthropology, Feb. 6, 2004 and Feb. 7, 2003. (2)
- “Sustainable Global Policies and Institutions.” Guest lecture in ENVS 5550/6550, Environment, Resources, and Development Policy: An Introduction to Sustainable Development, April 21, 2003. (1)
- “Context for Understanding Native North American History.” Undergraduate lecture for NR 4000, Natural Resource Policy and Economics, Nov. 26, 2001. (1)
- “Biodiversity and Human Values.” Undergraduate lecture for FW 1200, Biodiversity: Its Conservation and Future, November 8, 2001. (1)
- “Doing Field Work: Procedures and Experiences.” Graduate lecture for Sociology 7100, Survey and Field Research, February 2000. (1)
- “Fostering Interdisciplinary Connections in Natural Resources and Environmental Education.” Graduate lecture for LAEP 687, Landscape Architecture and Environmental Planning Seminar: October 1999; February 1997; February 1995; February 1994. (4)
- “Gender Issues in the Natural Resource Professions.” Graduate lecture for FW/BIO 693, Publications, Presentations, and Grants in the Life Sciences, November 1997. (1)
- “Managing Ecological and Human Systems.” Undergraduate lecture for LS 284, General Ecology, July 1996. (1)
- “Western Water Law and Policy.” Undergraduate lecture for NR 390, Natural Resource Policy: May 1997; February 1996; May 1995; May 1994. (4)
- “Federal Reserved Water Rights and Implications for American Indian Tribes.” Graduate lecture for WS 690, Water Policy, May 1996. (1)
- “Ecological Perspectives from the Field of Human Ecology.” Undergraduate lecture for FW 284, General Ecology, July 1995. (1)
- “Interviewing Techniques and Tips.” Graduate lecture for SOC 618, Qualitative Research Methods, February 1995. (1)
- “Gender Issues in the Natural Resource Professions.” Graduate lecture for FW/BIO 693, Publications, Presentations, and Grants in the Life Sciences, November 1994. (1)
- “Human Ecology.” Undergraduate lecture for FW 284, General Ecology, July 1994. (1)

**University of California at Irvine** (Teaching Assistant and Teaching Associate)

Comparative Culture Courses (3 quarters)

Political Science Courses (3 quarters)

Economic Courses (3 quarters)

Women's Study Course (1 quarter)

Minority Study Courses (2 quarters)

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**UTAH STATE UNIVERSITY SERVICE**

**University (USU) Service**

- Tenure and Promotion Committees (1991-present):  
Chair: (1); Member: (21)
- University Search Committees, Member (outside my college and department)  
Dean (1); Department Head (1); Assistant Professors (4); University Librarian (1)

- Graduate Council, AY 2007-2008 (member)
- Institutional Review Board, 2006-2009 (member)
- Water Initiative Advisory Committee, 2003-2015 (member)
- Water Initiative Task Force, 2002-2003 (member)
- NSF Advance Advisory Committee, 2003-2005 (member)
- Women's Center Advisory Board, 1996-1997 (chair)
- Women's Center Advisory Board, 1995-1996 (vice chair)
- Women's Center Advisory Board, 1992-1995, 1997-1999 (member)
- Women and Gender Research Institute, 1991-2005 (member)
- President's Diversity Team, 1994-1998 (member)
- Mountain West Center for Regional Studies Advisory Board, 1992-1995 (member)
- Proposal Reviewer, Agricultural Experiment Station (1993, 1995, 1998, 2012, 2013, 2015-2017)
- Proposal Reviewer, USU Vice President of Research, New Faculty Research Grants (1997)
- Proposal Reviewer, Graduate Fellowships, National Security Education Program (1995)

### **Quinney College of Natural Resources (QCNR) Service**

- Master of Natural Resources Standing Committee, 2004-2016 (member)
- Search Committee Member:
  - Department Head (1)
  - Assistant Professors (3)
  - Head Librarian, Quinney College Library (1)
- Graduate Scholarship Committee, 2008-2010 (member)
- Graduation Committee, 2004 (member)
- Seminar Series Committee, 2003 (member)
- Advance Planning Committee, 2003 (member)
- Dean's Advisory Council, 1991-2002 (standing member)
- Transition Team, 2001-2002 (member)
- Educational Policies Committee, 2001-2002 (member)
- Core Curriculum Committee, CNR Strategic Planning, 2000-2001 (member)
- College Organization Committee, CNR Strategic Planning, 1999-2002 (member)
- Development and Funding Committee, CNR Strategic Planning, 1999-2000 (chair)
- Curriculum Revision Committee, CNR Strategic Planning, 1999-2000 (member)
- Undergraduate Scholarship Committee, 1999 (member)
- Core Curriculum Subcommittee on Policy and Economics, 1996-1997 (chair)
- Committee on Future Directions for CNR, 1996 (member)
- 1993 Natural Resources Week Symposium Committee, 1992-1993 (chair)

### **Departmental Service**

#### **Department of Environment and Society: 2002-present**

- Graduate Selection Committee (2020-present)
- Strategic Planning Committee, 2014-2015 (member)
- Graduate Curriculum Committee, 2008-2009 (member)
- Search Committee Member
  - Assistant Professors (2)
- Curriculum Committee, 2004-2007 (member)
- Graduate Student Affairs Committee, 2002-2004 (member)
- Environment and Society Transition Team, 2001-2002 (member)
- Graduate Curriculum Committee, 2001-2002 (member)

**Department of Forest Resources: 1991-2002**

- Personnel Committee, 2001-2002 (member)
- Society of American Foresters External Accreditation Review, 2000 (participant)
- Curriculum Committee, 1999-2001 (chair)
- Undergraduate Affairs Committee, 1997-1999 (member)
- Executive Committee, 1998-1999 (member)
- Search Committee Member  
Assistant Professor (1)
- Graduate Education and Research Committee, 1993-1996 (member)
- Seminar Committee, 1993-1997 (member)

**PROFESSIONAL SERVICE**

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**Other Committee Service:**

- Guest Associate Editor, Journal of the American Water Resources Association, Planned Featured Collection and Series associated with the AWRA 2021 Specialty Conference
- Program Committee, 2021 Specialty Conference, American Water Resources Association (2020- )
- Policy Committee Member, American Water Resources Association (2016-2019)
- Steering Committee, “Collaborative Land Use Planning in the Intermountain West - A Regional Conference on Citizen-Focused Land Use Planning,” Rural Summit, held at Southern Utah University, Cedar City, Utah, August 2003. (member)
- Steering Committee, “Metropolitan Growth: From Regional Visions to Real Results,” Annual Wallace Stegner Center Symposium, University of Utah School of Law, Salt Lake City, Utah, held February 23-24, 2001. (member)
- Program Committee, The Eighth International Symposium on Society and Resource Management, entitled “Transcending Boundaries: Natural Resource Management from Summit to Sea.” Bellingham, Washington, June 17-22, 2000. (member)
- Facilitator, Utah Great Outdoors Conference, Salt Lake City, Utah, February 17, 1999.
- Co-Chair, Session on Socioeconomic Research, Gulf of Mexico Region, Minerals Management Service, Information Transfer Meeting, New Orleans, December 1997.
- Co-Organizer (with Noel Broadbent from the Arctic Program at National Science Foundation) of session entitled “The Challenges of Circumpolar Research in the 1990s” for the American Anthropological Association Meetings, Washington D.C., November 1993.

**Program Reviewer:**

Member, External Review Team. Natural Resources Program Undergraduate Academic Program Review. Oregon State University. 2004.

**Project Advisory Committee:**

Member, PAC for the Water Research Foundation (2015-2017)

**Proposal Reviewer:**

- Great Salt Lake Advisory Council (2019)
- California Sea Grant – Delta Science Program (2019)
- National Fish and Wildlife Foundation (2012)
- AAAS Canon National Parks Science Scholars Program for the Americas. Doctoral Grant Proposals (July 2006 and July 2007)
- USDA CSREES, Watershed Processes and Water Resources peer review panel of Competitive Programs (April 10-13, 2006; panel held in Washington D.C.)
- National Science Foundation, Geography and Regional Science Program (2004)
- National Oceanic and Atmospheric Administration (NOAA), National Estuarine Research Reserve Program (2004)

- Minerals Management Service, Department of Interior, U.S. Government (1995)
- National Science Foundation, Arctic Programs (1995)
- Utah Agricultural Experiment Station (1994-1997)
- Utah State University, Office of the V.P. for Research, New Faculty Research Grants (1997)

**Peer Reviewer of Research Project Reports:**

- Minerals Management Service, Department of Interior, U.S. Government (1993)
- Book Reviewer, Taylor and Francis Book Publishers (1995, 1996, 2014)

**Manuscript Reviewer for:**

*American Indian Culture and Research Journal*  
*BioScience*  
*Cities and the Environment*  
*Conservation Biology*  
*Ecology & Society*  
*Environmental Management*  
*HortTechnology*  
*International Journal of Disaster Risk Reduction*  
*International Journal of Urban Sustainable Development*  
*Journal of the American Water Resources Association*  
*Journal of Contemporary Water Research and Education*  
*Journal of Contingencies and Crisis Management*  
*Journal of Environmental Planning and Management*  
*Journal of Environmental Management*  
*Journal of Forestry*  
*Land Use Policy*  
*Landscape and Urban Planning*  
*Rangelands*  
*Society and Natural Resources*  
*Urban Ecosystems*  
*Urban Forestry & Urban Greening*  
*Water Policy*  
*Water Resources Management*  
*Water Resources Research*  
*Western Historical Quarterly*  
*Western Journal of Applied Forestry*  
*World Development*