

CODY L. KNUTSON

PERSONAL DATA

Work Address: National Drought Mitigation Center
820 Hardin Hall
University of Nebraska-Lincoln
Lincoln, Nebraska 68583-0988
Telephone: (402) 472-6718 Fax: (402) 472-2946
E-mail: cknutson1@unl.edu

EDUCATION

Ph.D. 2004 University of Nebraska-Lincoln, Geography, applied human/environmental emphasis
2001 University of Nebraska-Lincoln, Certificate in Public Policy Analysis and Program Evaluation, Political Science Department
M.A. 1997 University of Nebraska-Lincoln, Anthropology, applied cultural/development emphasis; Master's Minor, Geography
M.S. 1996 South Dakota School of Mines and Technology, Geological Engineering, water resources and environmental quality emphasis
B.S. 1993 South Dakota School of Mines and Technology, Geological Engineering, ground water emphasis

PRIMARY RESEARCH INTERESTS

Drought monitoring and planning, water and natural resources policy, rural water development, Native Americans, environmental perceptions, public participation, collaborative planning, capacity building, environmental justice, and international development

PRESENT POSITION

12/04 - present Research Assistant Professor/Water Resources Scientist, National Drought Mitigation Center, School of Natural Resources, University of Nebraska-Lincoln (UNL)
Supervise staff and graduate students, write grants, and publish; monitor and research drought occurrence in the U.S.; conduct research on drought impacts, vulnerability, and mitigation strategies; research public perceptions and foster public participation; work with state, tribal, and local stakeholders to develop drought preparedness and response plans; and perform outreach activities related to drought.

PREVIOUS EXPERIENCE AND TRAINING

12/02 - 12/04 Water Resources Specialist, National Drought Mitigation Center, UNL
8/01 - 12/03 Lecturer and Teaching Assistant, Anthropology and Geography Department, UNL, Lincoln, NE

- GEOG 181: Quality of the Environment
- GEOG 334: Historical Geography of the Great Plains

8/01 - 7/02 Applied Anthropologist, Development Systems and Applications International, Lincoln, NE
5/01 - 8/01 Research Fellow, Human Rights and Human Diversity Initiative, UNL, Lincoln, NE
5/00 - 5/01 Doctoral Research Fellow, Endowed Fellowship, UNL, Lincoln, NE
6/97 - 4/00 Water Resources Specialist, National Drought Mitigation Center, UNL, Lincoln, NE
9/96 - 3/97 Technical Assistant (Work Study), United States Geological Survey, Lincoln, NE
6/94 - 8/96 Hydrologic Technician (Summers), Black Hills National Forest, Custer, SD
1/94 - 12/94 Research/Teaching Assistant, SD School of Mines and Technology, Rapid City, SD
9/93 - 3/94 Project Manager, American Technical Services, Sioux Falls, SD
5/91 - 8/92 Geologist (Summers), Independence Mining Company, Elko, NV

MEMBERSHIPS

Association of American Geographers
International Water Resources Association
National Rural Water Association
Gamma Theta Upsilon International Geographic Honor Society
Tau Beta Pi National Engineering Honor Society

PROFESSIONAL SERVICE

- Member, 2006-present, United Nations International Strategy for Disaster Reduction, Ad Hoc Discussion Group on Drought
- Member, 1998-present, Municipal Water Supply, Health, and Energy Subcommittee, Nebraska Climate Assessment and Response Committee
- Member, 1999-00, Environmental Issues Working Group, National Drought Policy Commission
- Member, 1999-00, Municipal and Industrial Water Supply Working Group, National Drought Policy Commission
- Member, 1997-99, Drought Preparedness and Mitigation Committee, Western Drought Coordination Council
- Member, 1997-99, Drought Response Committee, Western Drought Coordination Council

RECENT PUBLICATIONS (2004-Current)

Journal Articles

- Knutson, C.L., M.J. Hayes, and M.D. Svoboda, Tribal Drought Planning in the United States: With a Case Study of the Hualapai Tribe of Arizona, *Journal of Natural Hazards Review*, Submitted
- Cooter, E., B. Eder, C. Rosenzweig, B. Lynn, R. Goldberg, C. Knutson, M. Hayes, D. Wilhite, J. DeCarolus, and T. Barnett. Effects of Climate Change on Weather and Water. 2005. *Environmental Management*, Special Issue on Climate Change and Air Quality, pp, 32-35, October.
- Hayes, M.J., C.L. Knutson, and Q. Hu. 2005. Multiple-Year Droughts in Nebraska. *NebGuide*. University of Nebraska Cooperative Extension Service, Lincoln, NE
- Hayes, M.J., O. Wilhelmi, and C.L. Knutson. 2004. Reducing Drought Risk: Bridging Theory and Practice. *Journal of Natural Hazards Review*, 5(2): 106-113

Chapters in Books and Technical Reports

- Knutson, C.L., S. Jones, M. Sittler, and M.D. Svoboda, 2006. Low Flow/Stage Related Impacts in the Upper Missouri River Basin: NDMC Contract Report to Central Region Climate Services, NOAA National Weather Service, Kansas City, MO
- Knutson, C.L., M.J. Hayes, R. K. Hitchcock, J. Peake, and M. Kleinschmit, 2006. Sustainable Adaptations to Drought and Climate Variability in Agricultural Production Systems Across Nebraska: Final Report to NOAA's Human Dimensions of Global Change Research (HDGCR) Program, Grant Number NA040AR4310080. Submitted to Nancy Bellar-Simms, Silver Spring, Maryland.
- Knutson, C.L., M.D. Svoboda, and M.J. Hayes, 2006. Analyzing Tribal Drought Management: A Case Study of the Hualapai Tribe. NDMC Grant Report to the Natural Hazards and Applications Information Center, University of Colorado, Boulder, CO, [<http://www.colorado.edu/hazards/research/qr/qr183/qr183.html>]
- Knutson, C.L., M.J. Hayes, and T. Tadesse, 2005. Stakeholder Group Discussions for Evaluation of the United States Geological Survey's Drought Monitoring Website and VegDRI Mapping Tool. *NDMC Contract Report to SAIC-USGS Eros Data Center*, Sioux Falls, SD
- Knutson, C.L., M. Higgins, and M.D. Svoboda, 2005. Low Flow/Stage Related Impacts in the North Platte River Basin. NDMC Contract Report to Central Region Climate Services, NOAA National Weather Service, Kansas City, MO
- Wilhite, D.A., M.J. Hayes, and C.L. Knutson, 2005. Drought Preparedness Planning: Building Institutional Capacity. In: D.A. Wilhite (ed.), *Drought and Water Crises: Science, Technology, and Management Issues*. CRC Press: Boca Raton, FL
- Knutson, C.L., 2004. Low Flow/Stage Related Impacts in the Upper Mississippi River Basin. NDMC Report to Central Region Climate Services, NOAA National Weather Service, Kansas City, MO
- Knutson, C.L., 2004. Pick-Sloan Plan. In: D. Wishart (ed.), *Encyclopedia of the Great Plains*, University of Nebraska Press: Lincoln, NE, pp. 858-859.

Conference Proceedings

- Kluck, D.R., C.L. Knutson, M. Higgins, and M.D. Svoboda. 2006. Enhancing the Advanced Hydrologic Prediction Service: A Pilot Program to Develop a Low/Flow Stage Database for NWS Forecast Points. *Proceedings of the 2006 NOAA Climate Prediction Applications Science Workshop*. Tucson, AZ, March 21-24
- Knutson, C.L., 2005. Enhancing the Advanced Hydrologic Prediction Service: A Pilot Program to Develop a Low/Flow Stage Database for NWS Forecast Points. *Proceedings of the 9th Annual Great Divide Weather Workshop*, Great Falls, MT, October 27, 2005
- Knutson, C.L. and D.A. Wilhite. 2005. Planning for Drought: Moving from Crisis to Risk Management. *Proceedings of the 2005 Geological Society of American Annual Meeting*, Salt Lake City, UT, October 16
- Knutson, C.L., M.D. Svoboda, and D.R. Kluck. 2005. An Early Warning System for Riverine Drought Impacts. *Proceedings of the 15th Conference on Applied Climatology*, Savannah, GA, June 24

- Knutson, C.L., D.R. Kluck, and M.D. Svoboda. 2005. A Pilot Program for a Low Flow Impacts Database for the National Weather Service. *Proceedings of the 85th American Meteorological Society Annual Meeting*, San Diego, California, January 9-13, 2005
- Buan, S., D.R. Kluck, and C. Knutson. 2004. *Abstract: Low Flow/Stage Related Impacts in the Upper Mississippi River Basin*. Second National Hydrologic Program Managers Conference. NWS Office of Climate, Water, and Weather Service, New Orleans, Louisiana, December 6-10, 2004
- Hayes, M.J., M.D. Svoboda, C.L. Knutson, and D.A. Wilhite. 2004. Estimating the Economic Impacts of Drought. *Proceedings of the 14th Conference on Applied Climatology*, Seattle, WA. January 11-15

Ph.D. Dissertation

- Knutson, C.L. 2004. *Rural Water Development for Marginal Regions: With a Case Study of South Dakota's Mni Wiconi Rural Water Project*. Ph.D. Diss. University of Nebraska Press: Lincoln, NE