

Jessica L. Lowrey

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EDUCATION

J.D. Candidate, expected 2012. University of Colorado, Boulder, CO.

M.S. Environmental Studies, 2004. University of Colorado, Boulder, CO.

B.S. Natural Resource Management, 1999. University of Maryland, College Park, MD.

PROFESSIONAL EXPERIENCE

July 2004 – July 2009 Professional Research Assistant, Western Water Assessment, NOAA/Univ. of Colorado

Policy and Scientific Analysis

- Analyze the annual and long-term policies, and the potential use of climate information forecasts of municipal water providers in Colorado.
- Liaison between scientists and state and local governmental agencies by reviewing scientific research and communicating complex information in the *Intermountain West Climate Summary* and Western Water Assessment's websites and brochures.
- Provide guidance to regional water managers on impacts of and adaptation to climate change
- Analyzed the impact of weather and climate variables on residential outdoor water demand, which is now being used in annual water management plans by the city of Aurora, Colorado.
- Develop and present talks about Western Water Assessment and NOAA research to state and local decision makers, scientists, and students.

Project Management and Organization

- Project manager, editor, and writer of the monthly publication: *Intermountain West Climate Summary*.
- Plan and implement meetings and workshops that facilitate communication and education between scientists and decision makers.
- Organized presenters in a "Climate Change Education Workshop" for Front Range water managers (February 2008).
- Organized a series of seminars for multidisciplinary scientists about current climate and water resources-related research.

Publications

Lowrey, J.L., A.J. Ray, and R.S. Webb, accepted 2009. "Factors Influencing the use of Climate Information by Colorado Municipal Water Managers." *Journal of Climate Research*.

Kenney, D.S., C. Goemans, R.Klein, **J. Lowrey**, and K. Reidy, 2008. "Residential Water Demand Management: Lessons from Aurora, Colorado." *Journal of the American Water Resources Association* 44(1): 192-207.

Kenney, D.S., C. Goemans, R.Klein, **J. Lowrey**, and K. Reidy, 2007. "Residential Water Demand Management: Learning from the Drought Crisis." *Colorado Water*. Feb/Mar: 14-16.

May 2003 – August 2003 Summer Intern, Water Resources and Treatment Division, City of Westminster, CO.

- Proposed internship and developed the research plan.
- Analyzed the complex economic, political and scientific water quality and hydrology issues surrounding the continued protection of Standley Lake, the water supply reservoir of Westminster, Thornton and Northglenn.
- Developed a series of policy questions that the above three cities ranked and answered before making decisions regarding their drinking water source.
- Researched and analyzed data on tap fees and rate structures for several metro Denver cities and prepared graphic results using Excel.

August 200 – May 2004 Graduate Research Assistant, Center for Science and Technology Policy Research, Univ. of Colorado

Completed coursework requirements for a Master's Degree including a thesis and six term papers involving research on water resources policy issues facing Colorado water managers in the 21st century.

- Water resources policy development and evaluation.
- Identification of goals and needs assessment of municipal water managers in Colorado.
- Knowledge and understanding complex environmental issues and the need for water conservation and drought planning across the state.
- Excellent written, oral communication and interpersonal skills from participating in group projects and presenting research findings to the class.
- Proficiency in self-motivation and time management.

GRADUATE RESEARCH PROJECTS

A New Idea for Water Storage in Northern Colorado: Case Study of the Proposed Seaman Reservoir Expansion, Team Research Project.

Established a set of economic, engineering and environmental policy evaluation criteria for the expansion of the Seaman Reservoir by the Northern Colorado Water Conservancy District.

Analysis of Seven Qualities that Affect the Reliability, Resiliency and Vulnerability of Water Supply Systems of Cities in the Colorado Front Range, Individual Research Project.

Created a quantitative vulnerability assessment framework useful to Colorado water managers in assessing the ability of their city's current or future water supply system to withstand a meteorological drought.

Land Use Planning As a Water Demand Management Tool in Colorado Springs, Team Research Project.

Assessed current water management policy issues in Colorado Springs.

Developed a conservation policy to enforce outdoor water use restrictions for new single-family residences.

Westminster Water Use Restrictions 2003: An Evaluation of the Intelligence Decision Process, Individual Research Project.

Researched and evaluated Westminster Water Resources Department's process of selecting and utilizing information as they developed a conservation policy proposal for water use restrictions.

PROFESSIONAL ORGANIZATIONS

Board of Directors for the Colorado Section of American Water Resources Association (April 2006 – present, Secretary of this board from January 2007- April 2009).

OTHER WORK EXPERIENCE

Interpretive Park Ranger, Wind Cave National Park, SD.

Education Director, ECO Recycling Yard, University of Maryland.

Biological Technician, Joshua Tree National Park, CA.

Volunteer Research Assistant, Patuxent Wildlife Research Refuge, MD.

Environmental Day Camp Counselor, Stonybrook-Millstone Watershed Association, NJ.