

R. Douglas Ramsey

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AREAS OF SPECIALIZATION

Plant ecology; rangeland ecology; landscape ecology; digital remote sensing; geographic information systems; spectral and spatial modeling; algorithm development; ecosystem modeling; GIS database development to support resource management and research

EDUCATION

Ph.D. Geography, University of Utah, Salt Lake City, Utah. 1989. Dissertation topic: *Modeling leaf area as an input to transpiration models in aspen-conifer forest in Big Cottonwood Canyon, Utah using remotely sensed data and geographic information systems.*

M.S. Botany, Brigham Young University, Provo, Utah. 1983. Thesis topic: *Influence of tree overstory on understory production and composition in aspen forests of central Utah.*

B.S. Range Science, Brigham Young University, Provo, Utah. 1982.

PROFESSIONAL EXPERIENCE

April 1995 to Present – Professor and Director

Remote Sensing/GIS Laboratory, Utah State University, Logan, Utah

July 1989 to April 1995 – Assistant Professor

Department of Geography and Earth Resources, Utah State University, Logan, Utah

January 1989 to July 1989 – Post-Doctoral Fellow

Department of Geography and Earth Resources, Utah State University, Logan, Utah

July 1984 to December 1988 – Project Scientist and Program Manager

University of Utah Research Institute, Center for Remote Sensing and Cartography

RESEARCH TOPICS

- Development of remote sensing based change detection and monitoring algorithms for semi-arid and arid environments
- Development of regional level land cover maps at high spatial and thematic resolutions to aid in the evaluation of biodiversity

RECENT PUBLICATIONS

- Lowry, J.H. Jr, M.E. Baker, and **R.D. Ramsey**. 2012. *Determinants of urban tree canopy in residential neighborhoods: Household characteristics, urban form, and the geophysical landscape.* Urban Ecosystems 15: 247-266.
- Lowry, J.H. Jr, **R.D. Ramsey**, and R.K. Kjelgren. 2011. *Predicting urban forest growth and its impact on residential landscape water demand in a semiarid urban environment.* Urban Forestry & Urban Greening. Urban Forestry & Urban Greening 10(3): 193-204.
- DeRose, J., J.N. Long, **R.D. Ramsey**. 2011. *Combining dendrochronological data and the disturbance index to assess Engelmann spruce mortality caused by a spruce beetle outbreak in southern Utah, USA.* Remote Sensing of Environment 115(9): 2342-2349.
- Washington-Allen, R.A., N.E. West, **R.D. Ramsey**, D.H. Phillips, and H.H. Shugart. 2010. *Retrospective assessment of dryland soil stability in relation to grazing and climate change.* Environmental Monitoring and Assessment 160: 101-121.
- **Ramsey, R.D.** and N.E. West. 2009. *Vegetation of Utah.* In Rangeland Resources of Utah, 2nd edition. Eds. R.E. Banner, B.D. Baldwin, and E.I. Leydsman McGinty.