

CPB Exh 23

Curriculum Vitae for
Bruce A. Roundy, Ph.D.

CPB Exh 23

Curriculum Vitae January 2017
BRUCE A. ROUNDY

EDUCATION

- Ph.D. Range Management, Utah State University, 1984
Dissertation director: Dr. C. M. McKell
Dissertation title: Establishment of Tall Wheatgrass and Basin Wildrye in
Relation to Soil Water and Salinity
- M.S. Range Management, University of Nevada, Reno, 1977
Thesis director: Dr. W. H. Blackburn
Thesis title: Influence of Prescribed Burning on Infiltration and Sediment
Production in the Pinyon-Juniper Woodland
- B.A. Social Services, University of Nevada, Reno, 1973

Major Fields: Revegetation, restoration of semiarid lands, plant and soil responses to
management practices, soil and plant water relations.

EMPLOYMENT

- 1996- 2001 Chair, Department of Botany and Range Science, Brigham Young University,
Provo, Utah.
- 1994-Present Professor, Department of Botany and Range Science, Department of Integrative
Biology, Department of Plant and Wildlife Science, Brigham Young University,
Provo, Utah.
- Teaching includes undergraduate and graduate courses in rangeland management
and improvement, restoration ecology, and watershed management. Research
involves range ecology with a focus on improvement of disturbed lands.
- 1989-1994 Associate Professor, Range Management Program, School of Renewable Natural
Resources, University of Arizona, Tucson
- Teaching included undergraduate rangeland improvement and ecology courses
and graduate courses in rangeland improvement and revegetation ecology.
Research involves rangeland plant establishment ecology.
- 1985-1989 Assistant Professor, Range Management Program, School of Renewable Natural
Resources, University of Arizona, Tucson

Teaching included an undergraduate rangeland improvement course, a graduate course in research techniques, and graduate seminars in natural resource management. Research included rangeland revegetation and plant response to herbivory.

1984-1985 Assistant Research Scientist, Range Management Program, School of Renewable Natural Resources, University of Arizona, Tucson

Teaching included an undergraduate rangeland improvement course. Research included rangeland revegetation and plant response to herbivory.

1977-1984 Range Scientist, U.S. Department of Agriculture, Agricultural Research Service, Weed Control and Range and Pasture Management Project, Reno, Nevada

Research included rangeland weed control, revegetation, water relations and salinity tolerance of grasses.

HONORS AND AWARDS

Outstanding thesis advisor 1991, 1994-1995 School of Renewable Natural Resources, University of Arizona, Tucson

Outstanding scholarly achievement, 1992, School of Renewable Natural Resources, University of Arizona, Tucson

Award for outstanding mentor of nontraditional students, 1994, University of Arizona, Tucson

Outstanding Undergraduate Teacher 2000, Range Science Education Council and Society for Range Management

Outstanding Citizenship Award 2002, College of Biology and Agriculture, Brigham Young University

John A. Widstoe Fellowship, 2002-2004, with Phil Allen, Brigham Young University.

Thomas Martin Professorship, 2006, College of Biology and Agriculture, Brigham Young University.

Range Manager of the Year, Utah Section, Society for Range Management, 2008.

Outstanding Achievement in rangeland Ecology and Management. Wildland Resources Department, Utah State University, February 2009.

Outstanding Achievement Award-Research/Academia. Society for Range Management, 2010.

Outstanding Research Award, College of Life Sciences, Brigham Young University 2012.

Faculty Distinguished Service Award, College of Life Sciences, Brigham Young University 2016.

INTRAMURAL SERVICE

School of Renewable Natural Resources, University of Arizona

Dryland Forestry Committee, 1989-1990

Participant in Graduate Career Day, September 25, 1990

Faculty Status Committee, 1990-1992; Chair, 1992

Invited member of Faculty Status Committee for review of Guy McPherson, 1993

School Awards Sub-committee, 1992

Adhoc Committee to develop undergraduate natural resource ecology course, RNR316, 1990-1994

School Reorganization Committee, 1993-1994

SRNR Lecture Series Committee, 1993-1994

Facilities and Equipment Committee, 1993-1994:
developed proposal for range laboratory and teaching room improvement

College of Agriculture, University of Arizona

Strategic Plan Oversight Committee, 1990

Member of various employee selection committees for Agricultural Economics, Range Management and joint University of Arizona/Mexican Rural Development Foundation goat project.

Agricultural Experiment Station Proposal Review Committee "Development of Specialized Sire and Dam Lines of Beef Cattle to Optimize Production Efficiency in Hot Arid Climates," August 1988.

Agricultural Experiment Station Proposal Review Committee "Soil-Plant-Nutrient Relations of the Ponderosa Pine Forest of Arizona", February 1991.

Agricultural Experiment Station Proposal Review Committee "Cow and Calf Weight Gains as Affected by Amount and Pattern of Standing Dead Herbage of Lehmann Lovegrass," May 1991.

Participant in Young Scholar's Program June 1991; hosted a high school student in our research program for 1 week

Represented the College in place of Dr. James Klemmedson at the meeting of the Research Affairs Committee of the International Arid Lands Consortium, August 9-13, 1993, Manitou Experimental Forest, Colorado: Helped write 1993-1994 request for research proposals and plan an Arid Lands Workshop to be held in Israel in June 1994. Invited to officially serve on the committee starting July 1994.

University, University of Arizona

Graduate College representative, 1991-1998

Grading of writing proficiency exam -- 3 sessions

Participant in Honors Center Faculty-Student Dialogue Program, Fall 1991.

Department of Botany and Range Science, later Integrative Biology, Plant and Animal Science, Plant and Wildlife Sciences, Brigham Young University

Curriculum Committee (Range and Wildlife, Wildlife and Wildlands) 1994-present

Conservation Biology Committee 1994-2001

Graduate Committee 1995-1996

Library Committee (Chair) 1995-1996

Represented Department working with AgHort in purchase of walk-in growth chamber 1995

Drafted two sections of Department Self Study Report 1995

New Faculty recommendation Committee 1995-1996

Vice-Harper selection committee 1995-1996

Department Chair, July 1996 to August 2001

Chair Leigh Johnson mentoring committee- 1999-2001

Member Loreen Woolstenhulm mentoring committee- 1997-2002

Member Department Leadership Council, Department of Integrative Biology, 2001-2006.

Member Russell Rader mentoring committee, 2001-2006

Member department committee on new building space needs, 2003-2006.

Member Landscape Ecologist Search Committee and hosted candidate Steven Petersen 15, 16 May 2006.

Member Plant Physiologist Search Committee and hosted candidate Jack Donaldson 23, 24 October 2006.

Professional Development Committee Chair, Department of Integrative Biology, 2001-2006; drafted and completed Department Professional Development document.

Professional Development Committee Chair, Department of Plant and Animal Science, then Plant and Wildlife Science September 2006 to June 2007; **2014 to present.**

Chair Focal Area Committee on Wildlife and Wildland Conservation program, 2001- 2010.

Member Department Leadership Council Plant and Wildlife Sciences Department June 2007-2010.

Member Department Graduate Committee, 2007-present.

Chair Search Committee for Upland and Wetland Wildlife Habitat Biologist positions September 2007.

Chair Steve Petersen Mentoring Committee, August 2007-2013.

Chair Brock McMillan Mentoring Committee, 2008-2013.

Judge Department graduate student presentation contest 2007-2015.

College of Biology and Agriculture, College of Life Sciences, Brigham Young University

Presented report on research activities, 1994 College Conference

College Symposium Committee, 1995-1996

Reviewed student paper for *BYU Journal of Environmental Studies*, February 1995.

Evaluator for graduate student poster competition 1995

Reviewed undergraduate student research proposal 1995

Tutored student in technical writing for Zoology 503 Fall 1995

Hosted Career Connections Seminars on “Botany and Range Science” and “Conservation Biology” Fall 1996-1999, 2001 for Women in Science Center

Presentations at High School Science Days 1996, 2001

Conducted one half-day field trip on rangeland ecology for summer internship students at the BYU Skaggs Ranch near Malta, Idaho, June 26, 1998.

Member Western North America Naturalist advisory board 1996-present, Chair 2003

Traveled to La Paz, Bolivia, for Benson Institute, 11-19 December 2001, to install weather station, assist Val Anderson to install two forage experiments, and scope out potential for additional small farm forage studies. Returned 4-13 June 2003 and 7-12 November 2006 to continue and facilitate studies.

Skaggs Ranch Approval Board 1998-2001

Member of various Spanish Fork Farm committees 2003-2006.

Chair, Robert Johnson Advisory Committee, 2003-2004

Member greenhouse and farm committee- 2004 to 2007

Member College Professional Development Committee- 2005 to Spring 2007; Fall 2011 through 2014

University, Brigham Young University

Honors Thesis reviewer for Jeff Burnham 2001

Member of Faculty Advisory Committee 2003-2006.

Presented discussion with David Kooyman at new faculty seminar on religious faith and academic excellence 11 May 2007.

University representative on professional development appeals case September-December 2007.

Represented Wildlife and Wildlands Conservation degree program at BYU Career Fair, 10 September 2007, October 2008, 2009.

Fall 2009- represented BYU in supporting and developing NSF EPSCORE proposal.

EXTRAMURAL SERVICE

Professional

Western Regional Coordinating Committee-21-Revegetation of drastically disturbed lands: Secretary 1987, Vice Chairman 1988, Chairman 1989, member 1986-present; 1990 - co-organized and published a symposium on "Perspectives and processes in revegetation science." Contributed to a committee poster presentation at ASSMR meeting, Gillette, Wyoming, 1995. Have contributed annually to a published report on University of Arizona (1987-1994) and BYU and Shrub Sciences Laboratory (1994-2008) research in revegetation as part of the published WCC-21 report.

Member Editorial Board and Associate Editor, *Journal of Range Management*, 1987-1991; supervised review and disposition of 20-25 articles per year.

Invited reviewer:

Agronomy Journal, Journal of Arid Environments, Canadian Journal of Botany, Restoration Ecology, Arid Soil Research and Rehabilitation, Great Basin Naturalist, Western North America Naturalist, Journal of Range Management, Journal of Environmental Quality, Soil Science Society of America Journal, Arid Land Research and Management, Ecosystems, Forest Ecology and Management, Ecology, Ecohydrology.

Symposium articles, research proposals, author-requested peer reviews for scientific articles, book chapters, extension bulletins

Reviewed Handbooks for plant materials selection and revegetation for U.S. Park Service, 1996

Member of review team for Bureau of Land Management and later U.S. Geological Survey Intermountain Greenstripping and Rehabilitation Project. Initial review, June 1992, and follow-up review, June 9-12, 1998.

Society for Range Management Accreditation Committee, 1992-1995; member Accreditation Review Team for Texas A&M Range Program, September, 1992. Chairman, 1994 and Accreditation Review Team leader for Colorado State University Range Program, December, 1994. Wrote report to SRM Board and presented oral report on accreditation in behalf of CSU.

Member of review team for Graduate Program, Society for Range Management Accreditation, and Cooperative State Research, Extension, and Education Service reviews for Oregon State University Department of Rangeland Resources, May 22-26, 2000.

Represented Brigham Young University in providing input for program review of USDA Forest Service, Rocky Mountain Experiment Station Shrub Sciences Laboratory; 15 November 2001 and 6-7 December 2005.

Invited discussant at Texas A&M Agricultural Experiment Station Workshop on Brush control and revegetation research: past, current, and future directions; August 5, 1993, Dallas, Texas.

Assistant tour guide, Central Utah tour, Fifth International Rangeland Congress, July 1995

Publications Development subcommittee, Society for Range Management, 1991-95.

Organized a panel and presented a report on the Society for Range Management accreditation process for the Range Science Education Council, Society for Range Management Annual meeting, 1995

Supervised poster paper section, Society for Range Management Annual meeting, 1995

Moderated technical session for Revegetation Technology Equipment Council, Society for Range Management Annual meeting, 1995.

Guest lecturer on rangeland revegetation for Utah State University range improvements class Winter 1995

Co-organized and conducted a symposium on "Using Native Seeds on Rangelands" at the Society for Range Management Annual meeting, February 16-21, 1997, Rapid City, South Dakota.

Visited semiarid research scientists and sites in Israel, May 1997, and later worked setting up equipment and training scientists in its use in Rehovot, Israel, August, 1998

Attended Society for Ecological Restoration workshop on Analytical Planning, November 11, 1997, Fort Lauderdale, Florida.

Co Chair, Program Committee, 2004 Society for Range Management Meeting. Had major responsibility for organizing most of the program, including 420 presentations. The meeting had record attendance and funds made for the society.

Member of Bureau of Land Management State Resource Advisory Board, September 2000 to August 2003; attended meetings in Salt Lake City, Price, and Vernal. Organized a major input meeting and drafted response to BLM Sustaining Working Landscapes Initiative, August-September 2003.

Led field discussion for field trip for Utah Partners for Conservation on Joint Fire Sciences research in Utah, Onaqui field site, 28 April 2006.

Research information meeting with Salt Lake Field Office Bureau of Land Management and new BLM State Director, 12 May 2007, Vernon, Utah.

Represented BYU at SageSTEP/Managers Workshop, SageSTEP and NEON (National Ecological Observatory Network) led field tour, 25 April 2006 Salt Lake City and Onaqui field site.

Led tour of Onaqui SageSTEP site for USGS Great Basin Landscape Monitoring group 6 September 2007.

Represented BYU at Great Basin Cooperative Ecosystem Study Unit meeting 18 October 2007 in Salt Lake City and displayed 5 posters of Great Basin research work being conducted by BYU professors and students.

Member of newly organized Revegetation Assessment team for Natural Resources Conservation Service CEAP (Conservation Evaluation and Assessment Program) to evaluate rangeland seeding as a conservation practice, 2008-2011.

Hosted SageSTEP summer field tour at Stansbury site for scientists and managers
16 July 2008.

Hosted summer 2009 Utah Section Society for Range Management tour visits to
Crested wheatgrass and SageSTEP research sites.

Represented BYU on the Domain Science and Education Coordinating Committee
(DSECC) for the Great Basin Domain of the National Ecological Observatory Network
(NEON). Attended the domain meeting at the University of Utah 13 January 2010 and
participated in the DSECC webinar 27 September 2010.

Co-hosted SageSTEP manager/scientist field tour in Utah 26 May 2010 and again 27
October 2010.

Represented BYU at Great Basin Cooperative Ecosystem Study Unit meeting 24 August
2010 in Reno, Nevada.

Represented BYU at Great Basin Cooperative Ecosystem Study Unit meeting 24 October
2011 in Reno, Nevada. **I continue as the BYU technical representative to the Great
Basin CESU.**

Community

Member, Board of Trustees, Appleton-Whittell, Audubon Society Research Ranch
Foundation, 1991-1994.

Member, Science Advisory Panel, Rincon Institute, 1991-1994.

Videotaped interview on exotic range grasses with KUAT, August 27, 1993.

Participated in 1 half-day service project for Orem City, summers 1997, 1998.

Participated in 1 half-day service project for Utah County Parks, summer 1997.

Merit badge counselor for Environmental Science and other environmental merit badges,
1977 to present.

Participated with Val Anderson and Phil Allen in discussion of invasive plants hosted by
Marcus Smith for *Thinking Aloud* for Classical 89.1 KBYU-FM, 9 November 2006,
aired 20 November 11 am.

Appeared in video aired multiple times on BYU TV and BYU Weekly (webpage) 24 February to 2 March 2007 explaining BYU's role and student involvement in fire-related research and the SageSTEP project.

Church

Boy Scouts of America - Scoutmaster 1987-1990, 1994-1996; merit badge counselor, 1982-present; adult advisor for 2-week trek for 11 boys at Philmont Scout Ranch, June-July 1993. Merit badge counselor, Park Stake merit badge Pow-Wow, February 1995, 1996 and Scofield Boy Scout Camp, August 1995, Big Foot Camp Boy Scout Camp 2000.

Callings: Bishop- 1983, Reno, Nevada; 1992-1994 - Tucson, Arizona; 1997-2001- Park 3rd ward Orem, Utah. Second counselor, Stake Presidency, Orem Utah Park Stake, 2001-2008. Branch presidency counselor at the Missionary Training Center March 2008; Branch President May 2009 to 2012. Other callings include: primary teacher, counselor and young men's president, elder's quorum president and counselor, bishopric counselor, Sunday School teacher, high council, stake young men's counselor. **Currently serving as ward mission leader.**

Fall 2011. Provided expert witness information to Corporation of Presiding Bishopric Attorneys for Nevada State Water Engineer hearing on effects of ground water withdrawal on Spring Valley, Nevada and the Cleve Ranch.

State, Arizona

Member, Soil Conservation Service, Tucson, Plant Materials Center Advisory Committee, 1986-1994.

Chairman, Land Use Committee, Arizona Riparian Council, 1987-1989: Prepared report on ongoing riparian research in Arizona and represented the Council at Arizona Branch Holistic Resource Management meeting, March 16, 1988, Punkin Center, Arizona.

Member, Desert Restoration Workgroup, 1990-1994. Hosted annual meeting and field tour, May 1992.

State -Utah/Nation/World

Helped prepare Bureau of Land Management western rangelands vegetation treatment environmental impact statement, 1988-1989.

Spent one month in African Sahel assessing needs for training of natural resource professionals, October 1990.

Member Shrub Research Consortium, 1993- present; Program Co-Chairman for Eighth Wildland Shrub and Arid Land Restoration Symposium held October 19-21, 1993, Las Vegas, Nevada.

Attended Global Climate Change Conference, February 16-18, 1998 in Salt Lake City, Utah. Invited as chair of breakout session on Consequences to the Livestock Industry, facilitated discussion, summarized ideas, and helped prepare report.

NEON/IRON- Attended initial two meetings to help organize IRON (Intermountain Region Ecological Observation Network). Invited to lead discussion group on global climate change 12-14 July 2004, Salt Lake City; attended follow-up meeting 2 March 2006 at University of Utah and field tour to select a Great Basin site 25 April 2007. Participated in NEON review at the University of Utah and Great Basin site visit 3, 4 June 2008 at the Onaqui Mountains potential site. 2009-present-representing BYU as a member of the Domain Science and Education Coordinating Committee (DSECC) for the Great Basin Domain of the National Ecological Observatory Network (NEON). Attended the domain meeting at the University of Utah 13 January 2010 and participated in the DSECC webinar 27 September 2010. **Domain committee member of the Domain 15 committee.**

PUBLICATIONS

Book reviews

Roundy, B.A. Review of *Halophytes as a Resource for Livestock and Rehabilitation of Degraded Lands*. 1996. *Global Ecology and Biogeography Letters* 5: 103-104.

Chapters in Scholarly Books

Roundy, B.A. and C.A. Call. 1988. Revegetation of arid and semiarid rangelands. p. 607-635. *In*: P.T. Tueller (ed.), *Vegetation science applications to rangeland analysis and management*. Kluwer Academic Publishers, Boston.

Ruyle, G.B. and B.A. Roundy. 1990. Effects of vegetation manipulation on wildlife on semidesert rangelands. p. 230-238 *In*: P.R. Krausman and N.S. Smith (eds.) *Managing wildlife in the southwest*. Ariz. Chap., The Wildl. Soc., Phoenix, Arizona. (ed.) *Rangeland Wildlife*. Society for Range Management, Denver, Colorado.

- Roundy, B.A. and S. Biedenbender. 1995. Revegetation in the desert grassland. p.265-303. *In*: M.P. McClaran and T.R. Van Devender (eds.) Desert grasslands. Univ. of Arizona Press, Tucson.
- Roundy, B.A. 1996. Revegetation for wildlife. p. 355-368. *In*: P.R. Krausman (ed.) Rangeland wildlife. Society for Range Management, Denver, Colorado.
- Hardegree, Stuart P., Thomas A. Jones, Bruce A. Roundy, Nancy L. Shaw, and Thomas A. Monaco. 2011. Assessment of range planting as a conservation practice. Chapter 4, p 171-212 *In*: David D. Briske, editor. Conservation benefits of rangeland practices. Assessment, recommendations, and knowledge gaps. US Department of Agriculture, Natural Resources Conservation Service, Washington, D.C.

Refereed Articles

- Evans, R.A., J.A. Young and B.A. Roundy. 1977. Seedbed requirements for germination of Sandberg bluegrass. *Agronomy J.* 69:817-820.
- Roundy, B.A., W.H. Blackburn and R.E. Eckert, Jr. 1978. Influence of prescribed burning on infiltration and sediment production in the pinyon-juniper woodland, Nevada. *J. Range Manage.* 31:250-253.
- Roundy, B.A., R.E. Eckert, Jr. and R.A. Evans. 1979. Soil moisture and grass growth in northern Nevada in a drought year. *Rangelands* 1:112-113.
- Roundy, B.A., J.A. Young and R.A. Evans. 1981. Phenology of salt rabbitbrush (*Chrysothamnus nauseosus* ssp. *consimilis*) and greasewood (*Sarcobatus vermiculatus*). *Weed Sci.* 29:448-454.
- Cluff, G.J., B.A. Roundy, R.A. Evans and J.A. Young. 1983. Herbicidal control of grease wood (*Sarcobatus vermiculatus*) and salt rabbitbrush (*Chrysothamnus nauseosus* ssp. *consimilis*). *Weed Sci.* 31:275-279.
- McAdoo, J.K., C.C. Evans, B.A. Roundy, J.A. Young and R.A. Evans. 1983. Influence of heteromyid rodents on *Oryzopsis hymenoides* germination. *J. Range Manage.* 36:61-64.
- Roundy, B.A. 1983. Response of basin wildrye and tall wheatgrass seedlings to salination. *Agron. J.* 75:67-71.
- Young, J.A., R.A. Evans and B.A. Roundy. 1983. Quantity and germinability of *Oryzopsis hymenoides* seed in Lahontan sands. *J. Range Manage.* 36:82-86.

- Roundy, B.A. 1984. Estimation of water potential components of saline soils of Great Basin rangelands. *Soil Sci. Soc. Amer. J.* 48:645-650.
- Roundy, B.A. 1985. Emergence and establishment of basin wildrye and tall wheatgrass in relation to moisture and salinity. *J. Range Manage.* 38:126-131.
- Roundy, B.A. 1985. Root and shoot elongation of tall wheatgrass and basin wildrye in relation to salinity. *Canadian J. Plant Sci.* 65:335-343.
- Roundy, B.A. 1985. Germination and seedling growth of tall wheatgrass and basin wildrye in relation to boron. *J. Range Manage.* 38:266-270.
- Roundy, B.A., G.J. Cluff, J.K. McAdoo and R.A. Evans. 1985. Effects of jackrabbit grazing, clipping, and drought on crested wheatgrass seedlings. *J. Range Manage.* 38:551-555.
- Roundy, B.A., J.A. Young and R.A. Evans. 1985. Germination of basin wildrye and tall wheatgrass in relation to osmotic and matric potential. *Agron. J.* 77:129-135.
- Young, J.A., R.A. Evans, B.A. Roundy and J.A. Brown. 1986. Dynamic land forms and plant communities in a pluvial lake basin. *Great Basin Naturalist* 46:1-21.
- Cluff, G.J. and B.A. Roundy. 1988. Germination responses of desert saltgrass to temperature and osmotic potential. *J. Range Manage.* 41:150-153.
- Floyd, D., P. Ogden, B. Roundy, G. Ruyle, and D. Stewart 1988. Improving riparian habitats. *Rangelands* 10:132-134.
- Roundy, B.A. and G.L. Jordan. 1988. Vegetation changes in relation to livestock exclusion and root plowing in southeastern Arizona. *The Southwestern Naturalist* 33:425-436.
- Ruyle, G.B., B.A. Roundy and J.R. Cox. 1988. Effects of burning on germinability of Lehmann lovegrass. *J. Range Manage.* 41:404-406.
- Roundy, B.A., G.B. Ruyle and J. Ard. 1989. Estimating production and utilization of jojoba. *J. Range Manage.* 42:75-78.
- Roundy, B.A. and A.K. Dobrenz. 1989. Herbivory and water status of jojoba (*Simmondsia chinensis*) in the Sonoran Desert in Arizona. *J. Arid Environments* 16:283-291.

- Roundy, B.A. and G.B. Ruyle. 1989. Effects of herbivory on twig dynamics of a Sonoran Desert shrub *Simmondsia chinensis*. *J. Applied Ecology* 26:701-710.
- Roundy, B.A., J.A. Young and R.A. Evans. 1989. Seedling growth of three Great Basin wildrye collections at reduced osmotic potential. *Agriculture, Ecosystems and Environment* 25:245-251.
- Cox, J.R., G.B. Ruyle and B.A. Roundy. 1990. Lehmann lovegrass in southeastern Arizona: biomass production and disappearance. *J. Range Manage.* 43:367-372.
- Roundy, B.A., R.N. Keys and V.K. Winkel. 1990. Soil response to cattle trampling and mechanical seedbed preparation. *Arid Soil Research and Rehabilitation* 4:233-242.
- Sumrall, L.B., B.A. Roundy, J.R. Cox and V.K. Winkel. 1991. Influence of canopy removal by burning or clipping on emergence of *Eragrostis lehmanniana* seedlings. *Int. J. Wildland Fire* 1:35-40.
- Winkel, V.K. and B.A. Roundy. 1991. A technique to determine seed location in relation to seedbed preparation treatments. *J. Range Manage.* 44:91-92.
- Winkel, V.K. and B.A. Roundy. 1991. Effects of cattle trampling and mechanical seedbed preparation on grass seedling emergence. *J. Range Manage.* 44:176-180.
- Winkel, V.K., B.A. Roundy and D.K. Blough. 1991. Effects of seedbed preparation and cattle trampling on burial of grass seeds. *J. Range Manage.* 44:171-175.
- Winkel, V.K., B.A. Roundy and J.R. Cox. 1991. Influence of seedbed microsite characteristics on grass seedling emergence. *J. Range Manage.* 44:210-214.
- Call, C.A. and B.A. Roundy. 1991. Perspectives and processes in revegetation of arid and semiarid rangelands. *J. Range Manage.* 44:543-549.
- Jackson, L.L., J.R. McAuliffe, and B.A. Roundy. 1992. Desert restoration-revegetation trials on abandoned farmland in the Sonoran desert lowlands. *Restoration and Management Notes* 9:71-80.
- Roundy, B.A., R.B. Taylorson and L.B. Sumrall. 1992. Germination responses of Lehmann lovegrass to light. *J. Range Manage.* 45:81-84.
- Roundy, B.A., V.K. Winkel, H. Khalifa and A.D. Matthias. 1992. Soil water availability and temperature dynamics after one-time heavy cattle trampling and land imprinting. *Arid Soil Research and Rehabilitation* 6:53-69.

- Roundy, B.A., J.A. Young, L.B. Sumrall and M. Livingston. 1992. Laboratory germination responses of 3 lovegrasses to temperature in relation to seedbed temperatures. *J. Range Manage.* 45:306-311.
- Plume, C.A., D.A. Palzkill, and B.A. Roundy 1993. Propagation of Arizona sycamore (*Platanus wrightii* Wats.) by stem cuttings. *Arizona-Nevada Academy Sci.* 27:125-128.
- Roundy, B.A., V.K. Winkel, J.R. Cox, A.K. Dobrenz, and H. Tewolde. 1993. Sowing depth and soil water effects on seedling emergence and root morphology of three warm-season grasses. *Agron. J.* 85:975-982.
- Briggs, M.A., B.A. Roundy, and W. Shaw. 1994. Trial and error. Assessing the effectiveness of riparian revegetation in Arizona. *Restoration and Management Notes* 12:160-167.
- Biedenbender, S.H. and B.A. Roundy. 1996. Establishment of native semidesert grasses into existing stands of *Eragrostis lehmanniana* in southeastern Arizona. *Restoration Ecology* 4:155-162.
- Roundy, B.A. and S.H. Biedenbender. 1996. Germination of warm-season grasses under constant and dynamic temperatures. *J. Range Manage.* 49:425-431.
- Livingston, M., B.A. Roundy, and S. Smith. 1997. Association of overstory plant canopies and native grasses in southern Arizona. *Journal of Arid Environments* 35: 441-449.
- Roundy, B.A., L.B. Abbott, and M. Livingston. 1997. Surface soil water loss after summer rainfall in a semidesert grassland. *Arid Soil Research and Rehabilitation* 11:145-158.
- Roundy, B.A., H. Heydari, C. Watson, S.E. Smith, B. Munda, and M. Pater. 2001. Summer establishment of Sonoran Desert species for revegetation of abandoned farmland using line source sprinkler irrigation. *Arid Land Research and Management* 15: 23-39.
- Abbott, L.B. and B.A. Roundy. 2003. Available water influences field germination and recruitment of seeded grasses. *Journal of Range Management* 56:56-64.
- George, D.B., B.A. Roundy, L.L. St. Clair, J.R. Johansen, G.B. Schaalje, and B.L. Webb. 2003. The effects of microbiotic crusts on soil moisture loss. *Arid Land Research and Management* 17:113-125.

- Korfmacher, J. L., J. C. Chambers, R. J. Tausch, B. A. Roundy, S. E. Meyer, and S. Kitchen. 2003. Technical Note: A technique for conducting small-plot burn treatments. *Journal of Range Management* 56:251-254.
- Ott, J.E., E.D. McArthur, and B.A. Roundy. 2003. Vegetation of chained and non-chained rangelands following wildfire and rehabilitation in west-central Utah. *Journal of Range Management* 56:81-91.
- Turley, Deborah, Bruce A. Roundy, and Scott C. Walker. 2003. Growth and reproductive responses of true mountain mahogany to browsing. *Journal of Range Management* 56:591-599.
- Turley, Deborah, Bruce A. Roundy, and Scott C. Walker. 2003. Community and shrub size responses of true mountain mahogany to browsing. *Journal of Range Management* 56:600-607.
- Petersen, Steven L., Bruce A. Roundy, and R. M. Bryant. 2004. Revegetation methods for high elevation roadsides at Bryce Canyon National Park, Utah. *Restoration Ecology* 12:248-257.
- Jones, K.L., B.A. Roundy, N.L. Shaw, and J.L. Taylor. 2004. Environmental effects on germination of *Carex utriculata* and *Carex nebrascensis* relative to riparian restoration. *Wetlands* 24: 467-479.
- Roundy, B. A. and R. J. Norman. 2005. "All things denote there is a God": Seeing Christ in the creation. *The Religious Educator* 6: 51-61.
- Thompson, T. W., B. A. Roundy, E. D. McArthur, B. D. Jessop, B. Waldron, and J. N. Davis. 2006. Fire rehabilitation using native and introduced species: a landscape trial. *Rangeland Ecology and Management*: 59:237-248.
- Blank, R. R., J. Chambers, B. Roundy, and A. Whittaker. 2007. Nutrient availability in rangeland soils: influence of prescribed burning, herbaceous vegetation removal, overseeding with *Bromus tectorum*, season, and elevation. *Rangeland Ecology and Management* 60:544-655.
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In: C.A. Call and B.A. Roundy (compilers) Proceedings of symposium "Perspectives and processes in rangeland revegetation." Soc. Range Manage., Denver, CO.
- Roundy, B.A. 1991. Perspectives on the revegetation of semi-arid land in the Western U.S. Presented to Desert Restoration Task Force, the Desert Botanical Garden, Phoenix, Arizona, Feb. 1, 1991.
- Roundy, B.A. 1991. Seedbed ecology contributions to rangeland revegetation. December 1991, Oregon State University, Corvallis.
- Roundy, B.A. 1992. Relating seedbed environmental conditions to seedling establishment. In: Intermountain Annual Rangelands Symposium, May 18-21, Boise, Idaho.

- Roundy, B.A. and S. Biedenbender. 1992. Revegetation and restoration in the desert grassland. Desert grassland symposium, Sept. 26, 1992, Sonoran Desert Museum, Tucson, Arizona.
- Roundy, B.A. 1993. Seedbed ecology of the desert grassland. National Park Service Revegetation and Reclamation Workshop, April 26-27, 1993, Palm Springs, California.
- Roundy, B.A. 1993. Seedbed ecology contributions to revegetation. July 30, 1993. USDA Agricultural Research Service National Seed Storage Laboratory, Fort Collins, Colorado.
- Roundy, B.A. 1993. Current rangeland revegetation research. Presentation-discussion leader, and white paper report to Texas Agricultural Experiment Station Workshop: Past, current, and future directions in brush control and revegetation on rangelands. August 5, 1993, Dallas, Texas.
- Roundy, B.A. 1993. Revegetation and biodiversity, USDA Soil Conservation Service, Western U.S. Plant Materials Workshop. November 2, 1993, Portland, Oregon.
- Roundy, B.A. 1995. Use and research of native species for wildland revegetation in the western United States. American Society of Agronomy annual meeting, October 29-November 3, 1995, St. Louis, Missouri.
- Roundy, B.A. 1997. Lessons from historical rangeland revegetation for today's restoration. Invited paper presented at symposium on Revegetation with Native Species, International Conference of the Society for Ecological Restoration November 12-15, 1997, Fort Lauderdale, Florida.
- Roundy, B.A., N. L. Shaw, and D. T. Booth. 1997. Using native seeds on rangelands. Invited presentation for the symposium: Using seeds of native species on rangelands. Society for Range Management annual meeting, February 16-21, 1997, Rapid City, South Dakota.
- Roundy, B. A. and Jason Vernon. 1997. Watershed values and conditions associated with pinyon-juniper communities. Invited presentation for the symposium: Ecology and Management of Pinyon-Juniper Communities in the Interior West, September 15-18, 1997, Provo, Utah.
- Roundy, B. A. 1998. Watershed values and controversy of pinyon-juniper communities. Presentation to graduate seminar and faculty, Department of Botany and Range Science, Brigham Young University, January 29, 1998, Provo, Utah.

- Roundy, B.A. 2000. Sagebrush steppe systems: Past and future. Symposium: Sagebrush steppe communities: origin, ecology, impacts, and resources- resources and management implications. Society for Range Management annual meeting, February 13-18, 2000, Boise, Idaho.
- Thompson, T., B.A. Roundy, E.D. McArthur, P.A. Fosse, H.D. Gates, J.N. Davis, and B. Waldron. 2001. Project-scale comparisons of seed mixes for fire rehabilitation in the Great Basin. 54th Annual Meeting Society for Range Management, February 17-23, Kailua-Kona, Hawaii.
- Roundy, B.A. 2001. Principles of plant community restoration. Sage grouse habitat restoration symposium, June 4-7, 2001. Boise State University, Boise, Idaho.
- Roundy, B.A. 2001. Site characterization for restoration. Bureau of Land Management Course on Restoration of Disturbed Lands. April 16-20, 2001, Phoenix, Arizona.
- Roundy, B.A. 2001. Site characterization for restoration. Bureau of Land Management Course on Restoration of Disturbed Lands. December 10, 2001, Phoenix, Arizona.
- Roundy, B.A. 2001. Aridland restoration: Theory and Practice. Keynote presentation for Arthur Carhart National Wilderness Training Center Course on Arid Wilderness Site Restoration, April 30- May 4, 2001, St. George, Utah.
- Roundy, B.A. 2001. Challenges to restoration in the Great Basin. Second Great Basin Biological Research Conference. Great Basin Biological Research Consortium. October 11-2, 2001. Monte L. Bean Life Science Museum, Brigham Young University, Provo, Utah.
- Roundy, B. A. 2002. Revegetation methods and technologies. Invasive Plants and Restoration in the West: A Partnership Workshop. December 9-11, 2002. Salt Lake City, Utah. Center for Invasive Plant Management, Montana State University, Bozeman, Montana.
- Roundy, B. A. 2003. Lessons for restoration from studies of plant establishment and soil water availability in the Sonoran Desert. Arid Southwest Lands Habitat Restoration Conference, March 3-7, 2003, Palm Springs, California.
- Roundy, B. A. 2003. The realities of large-scale restoration. Repairing Pacific Northwest Rangelands, April 1-2, 2003. Spokane, Washington.
- Roundy, B. A. 2003. From seedbeds to landscapes- science and practice of restoration. Invited seminar, April 15, 2003. Department of Rangeland Ecology and Management, Texas A&M University, College Station, Texas.

- Roundy, B. A. 2003. Vegetation history of Utah. Utah Archaeology Society. May, 2003. Salt Lake City, Utah.
- Roundy, B. A. 2003. Site characterization for restoration. Bureau of Land Management Restoration Course, December 8, 2003, Phoenix, Arizona.
- Roundy, B.A. 2004. Panel discussant in symposium: Federal fire rehabilitation: Policy, practices, and project results. Society for Range Management 57th Annual meeting, January 24-30, 2004, Salt Lake City, Utah.
- Roundy, B.A. 2004. Site characterization for restoration. Bureau of Land Management Course on Restoration of Sagebrush Systems. December 13, 2006, Phoenix, Arizona.
- Roundy, B. A. 2005. Challenges and progress in rangeland restoration. Symposium: Increasing the relevancy of rangeland research and development. Society for Range Management 58th Annual meeting, February 5-11, 2005, Fort Worth, Texas. Abstract # 294.
- Roundy, B.A. 2005. Site characterization for restoration. Bureau of Land Management Course on Restoration of Sagebrush Systems. December 5, 2006, Phoenix, Arizona.
- Johnson, R., V. Anderson, and B. Roundy. 2005. Investigations into cultural practices to raise native forbs. Symposium: Selecting and increasing native plant materials for the Great Basin. Society for Range Management 58th Annual meeting, February 5-11, 2005, Fort Worth, Texas. Abstract # 182.
- Madsen, M. and B. A. Roundy. 2006. Brigham Young University current research in the Great Basin. Invited poster. Workshop on collaborative Watershed Management & Research in the Great Basin-Building Partnerships across Institutions, Scales and Disciplines. November 28-30, 2006, Reno, Nevada.
- Roundy, B. A. 2006. The cheatgrass challenge in Utah and the West. Utah Farm Bureau biennial meeting. February 1, 2006. St. George, Utah.
- Roundy, B. A. 2006. Brief presentation and member of panel discussion on “What are the constraints to collaboration and how do we overcome them?” Workshop on Collaborative Watershed Management & Research in the Great Basin-Building Partnerships across Institutions, Scales and Disciplines. November 28-30, 2006, Reno, Nevada.

- Roundy, B.A. 2006. Site characterization for restoration. Bureau of Land Management Course on Restoration of Sagebrush Systems. December 11, 2006, Phoenix, Arizona.
- Roundy, B. A. and K. Young. 2007. Fire and restoration: Challenges and opportunities. Symposium: Fire ecology in semi-arid lands. Society for Range Management 60th annual meeting, February 10-16, 2007, Reno, Nevada. Abstract # 373.
- Roundy, Bruce A. 2007. Principles and objectives of restoration. Plant Community Restoration Conference, September 4-6, 2007, Grand Junction Colorado.
- Roundy, Bruce A. 2007. Sagebrush steppe restoration situations and techniques. Restoring the West Conference, September 18-20, 2007, Utah State University, Logan, Utah.
<http://extension.usu.edu/forestry/UtahForests/RTW2007/BruceRoundy.html>
- Roundy, Bruce, and Brad Jessop. 2007. SageSTEP update for Utah. Utah Section Society for Range Management meeting, November 1-2 2007, Price, Utah.
- Roundy, B. A. Fire rehabilitation challenges and successes in Utah. Society for Range Management 61st annual meeting, January 26-31, 2008, Louisville, Kentucky.
- Roundy, B. A. and N. L. Cline. 2008. Best practices close to the ineffective margins of successful seeding. Conference on wildfires and invasive plants in North American deserts. December 9-11, 2008, Reno, Nevada.
- Hardegree, S. P, Bruce A. Roundy, Nancy L. Shaw, Corey A. Moffet, Thomas A. Monaco, Thomas A. Jones, Edward F. Redente. 2009. Assessment of range planting as a conservation practice. Society for Range Management 62nd Annual Meeting, 8-12 February 2009, Albuquerque, New Mexico.
- Roundy, B. A. and April Hulet. 2009. SageSTEP woodland research update. Utah Bureau of Land Management Prescribed Fire and Fuels Workshop. Salt Lake City, Utah. 3 April 2009.
- Roundy, B. A. 2009. Wooded shrublands. SageSTEP Learning Together Workshop, USDI, Bureau of Land Management, Winnemucca, Nevada. 10-11 June 2009.
- Roundy, B. A. 2009. Sagebrush steppe restoration. Natural Resource Conservation Service Sagebrush Identification, Ecology, and Management Workshop, Park City, Utah. 14-18 September 2009.

- Roundy, B. 2010. Managing sagebrush with disturbance. Symposium on alternative management strategies in big sagebrush steppe: Perspectives, opportunities and supporting evidence. Society for Range Management Idaho Section annual symposium and winter meeting, 10-12 November 2010, Idaho Falls, Idaho.
- Roundy, B.A. 2010. Site characterization for restoration. Bureau of Land Management Course on Restoration of Sagebrush Systems. 6 December 2010, Phoenix, Arizona.
- Tausch, R., N.O. Frakes, R.F. Miller and B. Roundy. 2010. Geographic variation in crown structure and foliage biomass of woodland trees across the Great Basin. USDA Forest Service Rocky Mountain Research Station All Scientist Meeting, March 24, 2010, Fort Collins, Colorado.
- Roundy, Bruce, Rick Miller, Robin Tausch, and Jeanne Chambers. 2011. Soil water availability and vegetation response to pinyon and juniper woodland fuel control treatments. Great Basin Consortium First Annual Conference, November 7-9, 2011. Reno, Nevada.
- Roundy, B.A. 2011. Site characterization for restoration. Bureau of Land Management Course on Restoration of Sagebrush Systems. 5 December 2011, Phoenix, Arizona.
- Roundy, B.A. 2012. Site characterization for restoration. Bureau of Land Management Course on Restoration of Sagebrush Systems. 15 October 2012, Boise, Idaho.
- Roundy, B. A. 2013. Does tree cover matter when we treat pinyon-juniper to control fuels? Factors in cost-effective restoration of sagegrouse habitat in northern Nevada. 10 January 2013. Nevada Society for Range Management Winter Meeting, Elko, Nevada.
- Roundy, B. A. and A. Hulet. 2013. Fire rehabilitation and native species: A context for selecting plant materials. 2-8 February 2013. Society for Range management 66th annual meeting. Oklahoma City, OK.
- Roundy, B. 2014. SageSTEP update. Utah Bureau of Land Management prescribed fire and fuels workshop. 7 May 2014. Bear River Refuge, Utah.
- Roundy, B., J. Bybee, W. Shakespear, K. Young, A. Hulet, D. Roundy, Z. Aanderud, D. Rigby, and T. Campbell. 2014. What happens when you shred pinyon and juniper trees? Utah Bureau of Land Management prescribed fire and fuels workshop. 7 May 2014. Bear River Refuge, Utah.

- Roundy, B. A. 2014. Benefits/tradeoffs of fuel control treatments. International Sage-grouse forum. 13-14 November 2014. Salt Lake City, Utah.
- Roundy, B.A., J. Bybee, K. Young, A. Hulet, Z. Aanderud, N. Cline, R. Miller, R. Tausch, and J. Chambers. 2015. Vegetation restoration from piñon-juniper control treatments. Managing pinyon-juniper expansion in sagebrush ecosystems: Next steppe for the bi-state. 25-26 February 2015. Minden, Nevada.
- Roundy, B.A. 2015. Vegetation restoration in response to piñon-juniper control treatments. 5 March 2015. Webinar for Great Basin Consortium.
- Roundy, B.A., J. Bybee, K. Young, A. Hulet, Z. Aanderud, N. Cline, R. Miller, R. Tausch, and J. Chambers. 2015. Vegetation restoration from piñon-juniper control treatments. 20 July 2015. Western Association of Fish and Wildlife Agencies summer meeting. Reno, Nevada.
- Roundy, B. A. 2015. Vegetation restoration. Bureau of Land Management Restoration Forum. 18-19 August 2015. Kanab, Utah.
- Roundy, B. A. 2016. Relating environmental conditions to seeding outcomes: Challenges and opportunities for better rangeland restoration decision-making. 31 January-4 February 2016. Society for Range Management 69th annual meeting. Corpus Christi, TX.**

Contributed

- McAdoo, J.K., B.A. Roundy, J.A. Young and R.A. Evans. 1978. Ecology of barbwire Russian thistle. Proc. Western Soc. Weed Sci., Sparks, NV.
- Roundy, B.A., R.E. Eckert, Jr. and R.A. Evans. 1978. Effects of drought on vegetation in sagebrush rangelands. Proc. Weed Sci. Soc. Amer., Dallas, TX.
- Roundy, B.A., R.A. Evans and J.A. Young. 1978. Phenology of salt rabbitbrush. Proc. Western Soc. Weed Sci., Sparks, NV. p. 72.
- McAdoo, J.K., B.A. Roundy and J.A. Young. 1979. Rodent-range plant interactions in a salt desert shrub community. Proc. 32nd Annual Mtg., Soc. Range Manage., Casper, WY. p. 41.
- Roundy, B.A., J.A. Young and R.A. Evans. 1979. Phenology of salt rabbitbrush (*Chrysothamnus nauseosus* subsp. *consimilis* (Greene) Hall and Clem) and

- greasewood (*Sarcobatus vermiculatus* (Hook. and Toor.). Proc. Weed Sci. Soc. Amer., San Francisco, CA. p. 59.
- Roundy, B.A., J.A. Young and R.A. Evans. 1979. Range improvements in greasewood-salt rabbitbrush-Great Basin wildrye communities in central Nevada. Proc. 32nd Annual Mtg., Soc. Range Manage., Casper, WY. p. 28.
- Roundy, B.A., J.A. Young and R.A. Evans. 1979. Analysis of wildfires in western juniper communities. Proc. 32nd Annual Mtg., Soc. Range Manage., Casper, WY. p. 51.
- Roundy, B.A., R.A. Evans and D.N. Book. 1979. Establishing soil-vegetation relations using discriminant analysis. Proc. 32nd Annual Mtg., Soc. Range Manage., Casper, WY. p. 53.
- Evans, R.A., B.A. Roundy, J.A. Young and G.J. Cluff. 1980. Comparison of foliar and soil applied herbicides for control of greasewood and salt rabbitbrush. Proc. Western Soc. Weed Sci., Salt Lake City, UT. 33:118-119.
- Cluff, G.J., R.A. Evans, J.A. Young and B.A. Roundy. 1981. Pilot testing of technologies for big sagebrush (*Artemisia tridentata* Nutt.) range improvement. 21st Mtg., Weed Sci. Soc. Amer., Las Vegas, NV. p. 43.
- Roundy, B.A., G.J. Cluff, D. Lancaster, R.A. Evans and J.A. Young. 1981. Optimizing control of salt rabbitbrush and greasewood. 21st Mtg., Weed Sci. Soc. Amer., Las Vegas, NV. p. 43.
- McAdoo, J.K., J.A. Young and B.A. Roundy. 1982. Germination enhancement of Indian ricegrass by heteromyid rodents. Assoc. for Arid Land Studies and Western Soc. Sci. Assoc., Lubbock, TX. p. 26
- Roundy, B.A. 1982. Distribution of Great Basin wildrye (*Elymus cinereus*) in Grass Valley, Nevada. 18th Great Basin Anthropological Conference. Reno, NV. p. 38.
- Roundy, B.A., J.A. Young and R.A. Evans. 1982. Germination of basin wildrye and tall wheatgrass under reduced osmotic and matric potentials. Agronomy Abstracts. Ann. Mtg., Amer. Soc. of Agronomy, Anaheim, CA. p. 127.
- Cluff, G.J., B.A. Roundy, R.A. Evans and J.A. Young. 1983. Potential for herbicidal brush control in salt-desert plant communities. Wildland Shrub Symp., BYU, Provo, UT.

- Roundy, B.A. 1983. Establishment of basin wildrye and tall wheatgrass in relation to moisture and salinity. 36th Ann. Mtg. Soc. Range Mgmt., Albuquerque, NM.
- Roundy, B.A., R.A. Evans and J.A. Young. 1983. Surface soil and seedbed ecology in salt desert plant communities. Wildland Shrub Symp., BYU, Provo, UT.
- Roundy, B.A., J.A. Young and R.A. Evans. 1983. Response of native stands of basin wildrye to brush control and grazing management. 36th Ann. Mtg. Soc. Range Manage., Albuquerque, NM.
- Young, J.A., R.A. Evans, B.A. Roundy and G.J. Cluff. 1983. Ecology of seed germination in representative members of the Chenopodiaceae. Wildland Shrub Symp., BYU, Provo, UT.
- Roundy, B.A. 1984. Survival of crested wheatgrass seedlings in relation to drought and grazing by jackrabbits. 37th Ann. Mtg. Soc. Range Manage. Rapid City, South Dakota.
- Roundy, B.A. 1984. Root and shoot growth of basin wildrye and tall wheatgrass in relation to salinity and drought. 37th Ann. Mtg. Soc. Range Manage. Rapid City, South Dakota.
- Cox, J., G.B. Ruyle, D. Post and B.A. Roundy. 1985. The annual above-ground production of Lehmann lovegrass (*Eragrostis lehmanniana* Nees) in southeastern Arizona. 38th Ann. Mtg. Soc. Range Manage. Salt Lake City, Utah.
- Roundy, B.A., G.B. Ruyle and A.K. Dobrenz. 1985. Responses of jojoba (*Simmondsia chinensis*) to livestock grazing. Symposium on plant-herbivore interactions. Aug. 7-9. Snowbird, Utah.
- Roundy, B.A., G.B. Ruyle and A.K. Dobrenz. 1985. Responses of jojoba to livestock grazing. USDA Soil Conservation Service, Plant Materials Center Interagency Meeting, Dec. 12. Tucson, Arizona.
- Ruyle, G.B. and B.A. Roundy. 1985. The effects of long-term cattle grazing on jojoba (*Simmondsia chinensis*) in central Arizona. 38th Ann. Mtg. Soc. Range Manage. Salt Lake City, Utah.
- Floyd, D., B.A. Roundy, P. Ogden, G.B. Ruyle and D. Stewart. 1986. Managing rangeland riparian zones on public land for multiple use. First Annual Conference, Arizona Riparian Council. Oct. 3-4. Flagstaff, Arizona.

- Nascimento, M.S., B.A. Roundy and P. Ogden. 1987. Germination characteristics of three Brazilian legumes at reduced water potential. 40th Ann. Mtg. Soc. Range Manage., Boise, Idaho.
- Roundy, B.A., A.K. Dobrenz and G.B. Ruyle. 1987. Growth and water relations of jojoba (*Simmondsia chinensis*) as affected by livestock grazing. 40th Ann. Mtg. Soc. Range Manage., Boise, Idaho.
- Winkel, V.K. and B.A. Roundy. 1987. Effects of seedbed modification on seed placement and seedling emergence of southwest grasses. USDA Soil Conservation Service, Plant Materials Interagency Meeting, Dec. 17. Tucson, AZ.
- Khalifa, H., V. Winkel, B.A. Roundy and A.D. Matthias. 1988. Thermal and moisture conditions within a rangeland soil as affected by surface modifications. Agronomy Abstracts. Ann. Mtg. Amer. Soc. of Agronomy Nov. 1988, Anaheim, CA.
- Sumrall, L.B., B.A. Roundy, J.R. Cox and V.K. Winkel. 1988. Burning effects on seedbed ecology and germination of Lehmann lovegrass. Effects of Fire in Management of Southwestern Natural Resources Conference. Nov. 15-17, School of Renewable Natural Resources, Univ. of Arizona, Tucson, Arizona.
- Winkel, V.K. and B.A. Roundy. 1988. Effects of cattle trampling on emergence of southwest grasses. 41st Ann. Mtg. Soc. Range Manage. Corpus Christi, Texas.
- Roundy, B.A., H. Khalifa, A.D. Matthias and V.K. Winkel. 1989. Soil water and temperature dynamics in a southwestern seedbed as affected by cattle trampling and land imprinting. 42nd Ann. Mtg. Soc. Range Manage., Feb. 1989, Billings, Montana.
- Sumrall, L.B., B.A. Roundy, J.R. Cox and V.K. Winkel. 1989. Burning effects on seedbed ecology of Lehmann lovegrass. 42nd Ann. Mtg. Soc. Range Manage., Feb. 1989, Billings, Montana.
- Winkel, V.K. and B.A. Roundy. 1989. Effects of cattle trampling and mechanical seedbed preparation on seed placement of southwest grasses 42nd Ann. Mtg. Soc. Range Manage., Feb. 1989, Billings, Montana.
- Plume, C.A., D.A. Palzkill and B.A. Roundy. 1990. Vegetative propagation by cuttings of Arizona sycamore (*Platanus wrightii*) in southwestern riparian zones. 43rd Ann. Mtg. Soc. Range Manage., Reno, Nevada.

- Sumrall, L.B., B.A. Roundy, J.R. Cox and V.K. Winkel. 1990. Seedbed ecology and germination of Lehmann lovegrass as influenced by burning. 43rd Ann. Mtg. Soc. Range Manage., Reno, Nevada.
- Winkel, W.K., B.A. Roundy and J.R. Cox. 1990. Response of grass seedling emergence to rangeland seedbed microsites in relation to soil water. 43rd Ann. Mtg., Soc. Range Manage., Reno, Nevada.
- Livingston, M. and B.A. Roundy. 1991. Seedling emergence of warm-season native grasses in relation to soil cover. 44th Ann. Mtg. Soc. Range Manage., Washington, D.C.
- Roundy, B.A., R. Keys and V.K. Winkel. 1991. Effects of trampling and seedbed preparation on soil physical properties and water availability. 44th Ann. Mtg. Soc. Range Manage., Washington, D.C.
- Roundy, B.A. and V.K. Winkel. 1991. Seed depth and root morphology of warm-season grasses. USDA Soil Conservation Service Plant Materials Symposium. Dec. 18, 1991. Plant Materials Center, Tucson, Arizona.
- Abbott, L., S. Biedenbender, and B.A. Roundy. 1992. Evaluating seed germination/seedling establishment of native grasses in stands of Lehmann lovegrass. USDA Soil Conservation Service Plant Materials Symposium. Dec. 17, 1992. Plant Materials Center, Tucson, Arizona.
- Dobrenz, A.K., H. Heydari, B.A. Roundy, S. Smith, and C. Watson. 1992. Establishment of desert plants under line source sprinkler irrigation gradient system (LSSIGS) in southern Arizona. USDA Soil Conservation Service Plant Materials Symposium. Dec. 17, 1992. Plant Materials Center, Tucson, Arizona.
- Livingston, M. and B.A. Roundy, 1992. Association of native grasses with overstory plants in southern Arizona. 45th Ann. Mtg. Soc. Range Manage., Spokane, Washington.
- Roundy, B.A. and V.K. Winkel. 1992. Seedling emergence and root development of warm-season grasses in relation to sowing depth and soil water. 45th Ann. Mtg. Soc. Range Manage., Spokane, Washington.
- Abbott, L.B. and B.A. Roundy. 1993. Seedling establishment of native grasses in southern Arizona. 46th Ann. Mtg. Soc. Range Manage., Albuquerque, New Mexico.

- Abbott, L.A., B.A. Roundy, and S. Biedenbender. 1993. Seed fate of warm-season grasses. Wildland Shrub and Arid Land Restoration Symposium, October 19-21, Las Vegas, Nevada.
- Biedenbender, S. and B.A. Roundy. 1993. Replacing Lehmann lovegrass with native grasses. 46th Ann. Mtg. Soc. Range Manage., Albuquerque, New Mexico.
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- Heydari, H., C. Watson, A.K. Dobrenz, B.A. Roundy, S.E. Smith, M. Pater, and B. Munda. 1993. Establishment and ecophysiological responses of desert plants under line source sprinkler irrigation gradient system in southern Arizona. Arizona-Nevada Academy of Sciences, May 1993, Las Vegas, Nevada.
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- Roundy, B.A. 1993. Lessons from the past -- Gilbert Jordan's decade of revegetation research in the Chihuahuan and Sonoran Deserts. Wildland Shrub and Arid Land Restoration Symposium, October 19-21, Las Vegas, Nevada.
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- Heydari, H., B.A. Roundy, C. Watson, S.E. Smith, B. Munda, and M. Pater. 1995. Summer establishment of four Sonoran desert shrubs using line source sprinkler irrigation. Ninth wildland shrub symposium, May 23-25, 1995, Las Cruces, New Mexico.
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- Hulet, A., B. Roundy, S. L. Petersen, and S.C. Bunting. 2010. Applying remote sensing (RS) and geographic information system (GIS) technology to estimate tree, shrub, and intercanopy vegetation density and cover of pinyon-juniper woodlands in the Great Basin. Society for Range Management and Weed Science Society of America annual meeting, February 7-11, 2010, Denver, Colorado. Abstract PC-42.
- Madsen, M. B., S. L. Petersen, and B. A. Roundy. 2010. Seed coating application of wetting agents on native grass seeds for improving post-fire restoration: Greenhouse evaluation. Society for Range Management and Weed Science Society of America annual meeting, February 7-11, 2010, Denver, Colorado. Abstract PC-73.
- Roundy, B. 2010. Using soil water availability to guide successional timing for pinyon-juniper control treatments. SageSTEP Managers Workshop, 25 May 2010, Tooele, Utah.
- Roundy, B. 2010. SageSTEP woodland update. SageSTEP annual meeting, 26 October 2010, Salt Lake City, Utah.
- Roundy, B., N. Cline, and A. Hulet. 2010. Using the fluctuating resource hypothesis and soil water availability to guide successional timing for pinyon-juniper control treatments. Society for Range Management and Weed Science Society of America annual meeting, February 7-11, 2010, Denver, Colorado. Abstract O-176.

- Roundy, B. and K. Young. 2010. Modeling seedling root growth of Great Basin species. Annual meeting of the Great Basin Native Plant Selection and Increase Project. 26 January 2010, Salt Lake City, Utah.
- Young, Kert and Bruce Roundy. 2010. Effects of mechanically shredding Utah juniper on fuel characteristics. Rocky Mountain Area Fuels and Fire Use workshop and Prescribed Fire Burn Boss Refresher, January 26-28, 2010, Golden, Colorado.
- Young, Kert and Bruce Roundy. 2010. Mechanically shredding Utah juniper changes fuel characteristics. Society of American Foresters Annual Meeting, October 27-31, 2010, Albuquerque, New Mexico.
- Young, K. and B. Roundy. 2010. Effect of fire on soil seedbanks in woodlands of *Juniperus osteosperma* (Utah juniper). Society for Range Management and Weed Science Society of America annual meeting, February 7-11, 2010, Denver, Colorado. Abstract O-163.
- Zvirzdin, D., M. Madsen, S. Petersen, B. Roundy. 2010. Spatial distribution of post-fire water repellency: Assessment of the Milford Flat fire. Society for Range Management and Weed Science Society of America annual meeting, February 7-11, 2010, Denver, Colorado. Abstract UG-2.
- Cline, Nathan, Bruce Roundy, and Stuart Hardegree. 2011. Germination prediction from soil moisture and temperature data across the Great Basin. Abstract 283. Society for Range Management 64th annual meeting, February 6-10, 2011, Billings, Montana.
- Cline, N. L., B. Roundy, S. Hardegree. 2011. Germination prediction from soil moisture and temperature in the Great Basin. Interior West Fire Ecology Conference. November 14-17, Snowbird, UT.
- Hardegree, Stuart, Jaepil Cho, Bruce Roundy, Corey Moffet, Thomas Jones, Jeremy James, Nancy Shaw, and Robert Cox. 2011. Hydrothermal indices for classification of seedbed microclimate. Abstract 276. Society for Range Management 64th annual meeting, February 6-10, 2011, Billings, Montana.
- Hulet, April, Bruce Roundy, Brad Jessop, and Jennifer Rawlins. 2011. Crested wheatgrass control and native plant establishment in Utah. Abstract 34. Society for Range Management 64th annual meeting, February 6-10, 2011, Billings, Montana.

- Hulet, A., B. Roundy, S. Petersen, and S. Bunting. 2011. Characterizing pinyon-juniper woodlands using high-resolution imagery. SageSTEP 2011 Land Manager Workshop, Boise, ID, May 2011.
- Hulet, A., B. Roundy, S. Petersen, and S. Bunting. 2011. Characterizing pinyon-juniper woodlands post fuel-reduction treatments using high-resolution imagery. AFE Interior West Fire Ecology Conference, Snowbird, UT November 2011.
- Hulet, April, Bruce Roundy, Steven Petersen, Stephen Bunting, and Ryan Jensen. 2011. Object-oriented segmentation and classification of high resolution imagery evaluating fire-carrying fuel variables of pinyon-juniper woodlands in the Great Basin. Abstract 310. Society for Range Management 64th annual meeting, February 6-10, 2011, Billings, Montana.
- Hulet, A., B. Roundy, S. Petersen, S. Bunting, and R. Jensen. 2011. Object-oriented segmentation and classification of high resolution imagery evaluating fire-carrying fuel variables of pinyon-juniper woodlands in the Great Basin. American Society of Photogrammetry and Remote Sensing 2011 Annual Conference, Milwaukee, WI, May 2011.
- Roundy, Bruce. 2011. Management implications for fuel control in wooded shrublands. SageSTEP 2011 Land Manager Workshop, May 17-18, 2011, Boise, Idaho.
- Roundy, Bruce, April Hulet, Nathan Cline, Leann Crook, Kert Young, and Matthew Madsen. 2011. Fire rehabilitation decision making. Abstract 189. Society for Range Management 64th annual meeting, February 6-10, 2011, Billings, Montana.
- Roundy, Bruce and Kert Young. 2011. Effects of fire and fuel treatments on soil water availability in sagebrush communities. Interior West Fire Ecology Conference. November 14-17, 2011, Snowbird, Utah.
- Roundy, Darrell, Kert Young, and Bruce Roundy. 2011. Modeling seedling root growth in relation to temperature for fire rehabilitation species. Abstract 455. Society for Range Management 64th annual meeting, February 6-10, 2011, Billings, Montana.
- Tausch, Robin, Neil Frakes, Richard Miller, and Bruce Roundy. 2011. Geographic variation in crown structure and foliage biomass of woodland trees across the Great Basin. Abstract 374. Society for Range Management 64th annual meeting, February 6-10, 2011, Billings, Montana.

- Young, Kert and Bruce Roundy. 2011. Mechanically shredding Utah juniper. Abstract 230. Society for Range Management 64th annual meeting, February 6-10, 2011, Billings, Montana.
- Young, Kert and Bruce Roundy. 2011. Mechanically shredding Utah juniper and soil characteristics. 15-19 Oct 2011. Soil, Crop, and Environmental Sciences international annual conference. San Antonio, TX.
- Young, Kert and Bruce Roundy. 2011. Modeling seedling root growth of Great Basin species. 22-23 Feb 2011. Great Basin Native Plant Selection and Increase Project annual conference. Salt Lake City, UT.
- Young, Kert and Bruce Roundy. 2011. Modeling seedling root growth of Great Basin species. 08-12 Aug 2011. Ecological Society of America annual conference. Austin, TX.
- Young, Kert and Bruce Roundy. 2011. Mechanically shredding Utah juniper and soil characteristics. 14-17 Nov 2011. Interior West Fire Ecology conference. Salt Lake City, UT.
- Zvirzden, Daniel, Matthew Madsen, and Bruce Roundy. 2011. Post-fire soil water repellency, a preliminary report: Extent and characteristics within the pinyon-juniper woodlands of the eastern Great Basin. Abstract 313. Society for Range Management 64th annual meeting, February 6-10, 2011, Billings, Montana.
- Bybee, J., B. Roundy, and L. Crook. 2012. Piñon-juniper tree mastication effects in the Great Basin and Colorado Plateau. Society for Range Management 65th Annual Meeting, 8 January-3 February 2012, Spokane, Washington.
- Bybee, J., B. Roundy, K. Young, A. Hulet, and D. Roundy. 2012. Mechanical shredding as a fire surrogate in restoring sagebrush grasslands. Fifth International Fire Ecology and Management Congress, 3-7 December 2012, Portland, Oregon.
- Cline, N. and B. Roundy. 2012. Soil temperature and available soil water characterization of sagebrush steppe seedbeds in the Great Basin. Society for Range Management 65th Annual Meeting, 8 January-3 February 2012, Spokane, Washington.
- Cline, N.L., B. A. Roundy, and S. P. Hardegree. 2012. Germination prediction from soil moisture and temperature in the Great Basin. Society for Range Management 65th Annual Meeting, 8 January-3 February 2012, Spokane, Washington.

- Hulet, A., B. Roundy, S. L. Petersen, S. Bunting, and R. Jensen. 2012. Assessing the relationship between remotely-sensed variables and field-based vegetation variables at multiple scales. Society for Range Management 65th Annual Meeting, 8 January-3 February 2012, Spokane, Washington.
- Hulet, A. and B. Roundy. 2012. Assessing the relationship between ground measurements and aerial image analysis of land cover classes in pinyon and juniper woodlands. Webinar presented 29 February 2012.
<http://www.gbfiresci.org/webinars-and-workshops/>
- Miller, R., J. Ratchford, B. Roundy, R. Tausch, A. Hulet, and N. Frakes. 2012. Soil-moisture-temperature regimes: Influence on ecological resilience, resistance, and site response following piñon-juniper removal. Society for Range Management 65th Annual Meeting, 8 January-3 February 2012, Spokane, Washington.
- Roundy, B. 2012. Does tree cover matter when we treat pinyon-juniper to control fuels? Webinar presented 28 March 2012.
<http://www.gbfiresci.org/webinars-and-workshops/>
- Roundy, B., A. Hulet, and K. Young. 2012. Effects of fuel treatment disturbances on soil water availability and potential resilience and resistance to weed invasion of sagebrush communities. Society for Range Management 65th Annual Meeting, 8 January-3 February 2012, Spokane, Washington.
- Roundy, B., K. Young, N. Cline, S. Hardegree, and J. Rawlins. 2012. Environmental effects on seedling establishment. Great Basin Native Plant Selection and Increase Project Annual meeting, February 21-22, 2012, Salt Lake City, Utah.
- Roundy, B., K. Young, A. Hulet, R. Miller, R. Tausch, and J. Chambers. 2012. Relating woodland fuel treatments to resilience across an invasion gradient. Utah Section Society for Range Management Meeting. 2 Dec 2012, Utah Valley University, Orem, UT.
- Roundy, B., K. Young, A. Hulet, R. Miller, R. Tausch, and J. Chambers. 2012. Effects of fuel control treatments on vegetation responses across a pinyon-juniper tree invasion gradient. Fifth International Fire Ecology and Management Congress, 3-7 December 2012, Portland, Oregon.
- Rigby, D., Z. Aanderud, and B. Roundy. 2012. Investigating the potential for piñon

- and juniper mastication to influence soil health and invasibility. Society for Range Management 65th Annual Meeting, 8 January-3 February 2012, Spokane, Washington.
- Young, K and B. Roundy. 2012. Mechanically shredding Utah juniper and soil characteristics. Society for Range Management 65th Annual Meeting, 8 January-3 February 2012, Spokane, Washington.
- Zvirzden, D., M. Madsen, and B. Roundy. 2012. Ecological site characteristics related to the formation of post-fire soil water repellency within piñon-juniper woodland. Society for Range Management 65th Annual Meeting, 8 January-3 February 2012, Spokane, Washington.
- Bybee, J., B. Roundy, A. Hulet, D. Roundy, K. Young. 2013. Mechanical shredding as a fire surrogate in restoring sagebrush grasslands. Society for Range Management 66th Annual Meeting, 2-8 February 2013, Oklahoma City, Oklahoma.
- Bybee, J., B. Roundy, A. Hulet, K. Young, and D. Roundy. 2013. Understory vegetation response to mechanical mastication of pinyon and juniper woodlands. Utah Section Society for Range Management meeting. November 1, 2013, Cedar City, Utah.
- Cline, N. and B. Roundy. 2013. Soil temperature and available soil water characterization of sagebrush steppe seedbeds in the Great Basin. Society for Range Management 66th Annual Meeting, 2-8 February 2013, Oklahoma City, Oklahoma.
- Hulet, A., B. Roundy, S. Petersen, and S. Bunting. 2013. Utilizing NAIP imagery to estimate tree cover and biomass in pinyon and juniper woodlands. Society for Range Management 66th Annual Meeting, 2-8 February 2013, Oklahoma City, Oklahoma.
- Madsen, M., D. Zvirzden, K. Fernelius, and B. Roundy. 2013. Improving rangeland seeding success in post-fire water repellent soil using surfactant seed coating technology. Society for Range Management 66th Annual Meeting, 2-8 February 2013, Oklahoma City, Oklahoma.
- Roundy, B., R. Miller, R. Tausch, J. Chambers, A. Hulet, and K. Young. 2013. Effects of fuel control treatments on vegetation responses across a pinyon-juniper tree invasion gradient. Society for Range Management 66th Annual Meeting, 2-8 February 2013, Oklahoma City, Oklahoma.

- Roundy, D., A. Hulet, and B. Roundy. 2013. Estimating pinyon and juniper tree cover using NAIP imagery across Utah. Society for Range Management 66th Annual Meeting, 2-8 February 2013, Oklahoma City, Oklahoma.
- Shakespear, W. and B. Roundy. 2013. Soil water availability in pinyon-juniper communities. Society for Range Management 66th Annual Meeting, 2-8 February 2013, Oklahoma City, Oklahoma.
- Young, K. and B. Roundy. 2013. Plant establishment and soil microenvironments in Utah juniper masticated woodlands. Society for Range Management 66th Annual Meeting, 2-8 February 2013, Oklahoma City, Oklahoma.
- Zvirzden, D., M. Madsen, and B. Roundy. 2013. Post-fire soil water repellency: persistence within pinyon-juniper woodlands. Society for Range Management 66th Annual Meeting, 2-8 February 2013, Oklahoma City, Oklahoma.
- Ott, J. E., N. Shaw, R. D. Cox, M. Pellant, and B. A. Roundy. 2014. Comparison of native plant seeding techniques on burned Wyoming big sagebrush sites. Society for Range Management 67th Annual Meeting, 8-13 February 2014, Orlando, Florida.
- Aanderud, Z. T., D. Rigby, and B. A. Roundy. 2014. Tree-islands of fertility and masticated debris decrease metabolic efficiency of soil microorganisms in cold deserts. Society for Range Management 67th Annual Meeting, 8-13 February 2014, Orlando, Florida.
- Bybee, J., B. A. Roundy, A. Hulet, K. Young, and D. Roundy. 2014. Understory vegetation response to mechanical mastication of piñon-juniper forests. Society for Range Management 67th Annual Meeting, 8-13 February 2014, Orlando, Florida.
- Campbell, T., D. Rigby, J. Bybee, B. A. Roundy, and Z. Aanderud. 2014. Piñon and juniper shredded debris influences nutrients and grasses in cold deserts. Society for Range Management 67th Annual Meeting, 8-13 February 2014, Orlando, Florida.
- Cline, N. L. B. A. Roundy, and K. Young. 2014. Spring drying and wetting for seedling root zones in the Great Basin. Society for Range Management 67th Annual Meeting, 8-13 February 2014, Orlando, Florida.
- Cline, N. and B. Roundy. 2014. Using geospatial environmental characteristics to determine plant community resilience to fire and fire surrogate treatments.

Society for Range Management Utah Section meeting, 6-7 November 2014, Logan, Utah.

Roundy, B., J. Bybee, K. Young, A. Hulet, Z. Aanderud, N. Cline, R. Miller, R. Tausch, and J. Chambers. 2014. Vegetation restoration from piñon-juniper control treatments. Society for Ecological Restoration Northwest & Great Basin Regional Conference, 6-8 October 2014. Redmond, Oregon.

Roundy, D. B., A. Hulet, J. Bybee, B. A. Roundy, and S. L. Petersen. 2014. Estimating pinyon and juniper tree cover and biomass using NAIP imagery across Utah. Society for Range Management 67th Annual Meeting, 8-13 February 2014, Orlando, Florida.

Roundy, B. and J. McIver. 2014. Benefits/tradeoffs of fuel control treatments. What we have learned from SageSTEP so far. Society for Range Management Utah Section meeting, 6-7 November 2014, Logan, Utah.

Roundy, B. A., K. Young, J. Bybee, D. Rigby, and Z. Aanderud. 2014. Piñon-and juniper mastication: What we have learned from process and survey studies in Utah. Society for Range Management 67th Annual Meeting, 8-13 February 2014, Orlando, Florida.

Shakespear, W., K. Young, B.A. Roundy, D. Roundy, and A. Hulet. 2014. Fuel response to mechanical shredding of pinyon-juniper trees in Utah. Society for Range Management 67th Annual Meeting, 8-13 February 2014, Orlando, Florida.

Badrakh, T., M. D. Madsen, and B. A. Roundy. 2015. Improving rangeland seeding effectiveness by delaying seed germination with abscisic acid (ABA). 31 January- 6 February 2015. Society for Range Management 68th annual meeting. Sacramento, California.

Cline, N. L., B. A. Roundy, and C. Balzotti. 2015. Using Random Forest to estimate potential cheatgrass and perennial herbaceous cover from site environmental characteristics. 31 January- 6 February 2015. Society for Range Management 68th annual meeting. Sacramento, California.

Cline, N. L., B. A. Roundy, and W. Christensen. 2015. Using geospatial environmental characteristics to determine plant community resilience to fire and fire surrogate treatments. 31 January- 6 February 2015. Society for Range Management 68th annual meeting. Sacramento, California.

Cline, N. L., B. A. Roundy, and K. Young. 2015. Wet thermal time and soil water potential in the seedbeds and root zones across the sagebrush steppe ecosystem of the Great Basin. 17-19 February 2015 Great Basin Consortium Conference. Climate programs, water limitations, and geospaces in the Great Basin. Boise, Idaho.

Cline, N. L., B. A. Roundy, and C. Balzotti. 2015. Using Random Forest to estimate potential cheatgrass and perennial herbaceous cover from site environmental characteristics. 17-19 February 2015 Great Basin Consortium Conference. Climate programs, water limitations, and geospaces in the Great Basin. Boise, Idaho.

Madsen, M. D., A. Hulet, K. W. Davies, C. S. Boyd, T. Badrakh, J. Kerby, B. A. Roundy, 2015. Seed enhancement technologies for overcoming barriers to restoration. 31 January- 6 February 2015. Society for Range Management 68th annual meeting. Sacramento, California.

Roundy, B. A. 2015. Successional trends after treating piñon-juniper encroached sagebrush steppe to reduce fuels. 31 January- 6 February 2015. Society for Range Management 68th annual meeting. Sacramento, California.

Summers, D. and B. A. Roundy. 2015. Evaluating six mechanical treatments in big sagebrush 10 years post treatment in northern Utah. 31 January- 6 February 2015. Society for Range Management 68th annual meeting. Sacramento, California.

Roundy, B. A., M. D. Madsen, and T. Badrakh. 2016. Frost seedbed conditions on sagebrush steppe rangelands of the Great Basin. 31 January-4 February 2016. Society for Range Management 69th annual meeting. Corpus Christi, TX.

Roundy, B. A., R. Williams, and A. Hulet. 2016. Successional trends after treating piñon-juniper encroached sagebrush steppe to control fuels. 31 January-4 February 2016. Society for Range Management 69th annual meeting. Corpus Christi, TX.

GRANTS AND CONTRACTS

Federal

- Roundy, B.A. (P.I.) and D. Hendricks (soils-collaborator). 1987. USDA Rangeland competitive grant: Modification of surface soils by livestock to enhance revegetation of southwestern rangelands. \$79,454 total for three year project.
- Roundy, B.A. (P.I.), L. Bach (USDA/ARS-collaborator), and L. Graham (SRNR-collaborator). 1990. USDA Rangeland competitive grant: Seed and seedling fate of warm-season grasses in relation to seedbed water availability. \$75,000 total for four year project.
- Shaw, W. (P.I.) and B.A. Roundy (collaborator). 1990. U.S. Fish and Wildlife Service. Evaluation of riparian revegetation projects in Arizona. \$50,000 total.
- Smith, S.E. (Co-P.I. Plant Sciences), B.A. Roundy (Co-P.I.), and A.K. Dobrenz (Cooperator, Plant Sciences). 1992. Water Resources Research. Measuring water requirements of desert-adapted plants using line-source gradient irrigation. \$15,853 for 1992.
- Roundy, B.A. (Co-P.I.), S.E. Smith and A.K. Dobrenz (Co-P.I. and cooperator, respectively, Plant Sciences). 1993. Water Resources Research. Measuring water requirements of desert-adapted plants using line source gradient irrigation. \$15,569 for 1993.
- Roundy, B.A. (P.I.) and N. Shaw (USFS collaborator). 1996. Establishment of selected grasslike riparian species for natural and artificial seeding. \$25,000 received for 2-year project.
- Kigel, J. (Co-P.I., Hebrew University of Jerusalem), B.A. Roundy (Co-P.I.), S. Meyer (Co-P.I., USFS), and P. Allen (Co-P.I., AgHort, BYU). 1996. Role of seedbanks in the management of semiarid rangelands under grazing. \$75,000 total, \$37,500 for BYU part of 2-year project.
- Glisson, B. and B.A. Roundy. 1997. Strawberry aqueduct reduced flow study. USDA Forest Service, Ashley National Forest. Funded at \$49,015 per year for 3-year study.
- Kigel, J. (Co-P.I., Hebrew University of Jerusalem), B.A. Roundy (Co-P.I.), S. Meyer (Co-P.I., USFS), and P. Allen (Co-P.I., AgHort, BYU). 1998. Predicting seedbank germination in semiarid rangelands under grazing. \$75,000 total, \$37,500 for BYU part of 2-year continuing project.
- Glisson, B. and B.A. Roundy. 2000. Strawberry aqueduct reduced flow study. USDA Forest Service, Utah Conservation and Mitigation Commission. Extended 1.5 years funding. \$50,000.

- Chambers, J.C., E.D. McArthur, Bruce A. Roundy, and 10 other co-principal investigators. 2000. Changing fire regimes, increased fuel loads, and invasive species: effects on sagebrush steppe and pinyon-juniper ecosystems. Joint Fire Science Program of Departments of Interior and Agriculture. \$70,301 subcontract to Roundy at BYU as part of 3-year invasive weed ecology study.
- McIver, J. and 18 others. 2003-2004. Preparation of fire and fire surrogate treatments for sagebrush ecosystem restoration research proposal to Joint Fire Sciences Program. \$100,000. I was not in on original funding, but was invited to join the group to prepare the proposal and have attended 4, week-long meetings. The proposal was submitted September 2004 and asks for \$11,478,932, of which \$1,038,742 was requested for BYU and Roundy's part.
- Roundy, B.A. and V.J. Anderson. 2004. Strategies and methodologies for diversifying crested wheatgrass seedings in the Great Basin. USDA Forest Service Rocky Mountain Station and USDI Bureau of Land Management Great Basin Restoration Initiative. \$122,000 for 2-3 year project.
- Anderson, V.J., R.L. Johnson, and B.A. Roundy. 2004. Increasing seed production of native shrubs. USDA Forest Service Rocky Mountain Station and USDI Bureau of Land Management Great Basin Restoration Initiative. \$150,000 for 2-3 year project.
- Anderson, V.J., B.A. Roundy, and R.L. Johnson. 2004. Supplementary funds for increasing seed production of native forbs. USDA Forest Service Rocky Mountain Station and USDI Bureau of Land Management Great Basin Restoration Initiative. \$50,000.
- Roundy, B. A. 2004. Bulldog fire rehabilitation study. USDI Bureau of Land Management. \$10,596 for graduate student tuition and travel.
- McIver, J. D. and 18 co-investigators, including B. A. Roundy. 2005-2010. A regional experiment to evaluate effects of fire and fire surrogate treatments in the sagebrush biome. Joint fire Sciences Program, funded through USGS and Great Basin CESU. \$12.9 million for 5 year project of which \$1.45 million is allocated to Roundy at BYU.
- Roundy, B.A. and V.J. Anderson. 2005. Strategies and methodologies for diversifying crested wheatgrass seedings in the Great Basin. USDA Forest Service Rocky Mountain Station and USDI Bureau of Land Management Great Basin Restoration Initiative. \$ 30,000 additional funding for research on native species seedling establishment modelling.

- Hulet, April, B.A. Roundy, and S.L. Petersen. 2009. Aerial imagery assessment of vegetation and fuels in pinyon-juniper woodlands. SageSTEP Joint Fire Sciences Project. \$10,000 for 2-year project.
- Hulet, A. and B. A. Roundy. 2009. Remote sensing of pinyon-juniper communities. Bureau of Land Management. \$10,000 2009-2011.
- Petersen, S. L., M. D. Madsen, and B. A. Roundy. 2008. Management techniques to improve establishment of desirable species in the presence of hydrophobic soils. USDA Natural Resources Conservation Service, Conservation Innovative Grants. \$56,929.
- Roundy, B. A., M. Madsen, S. Petersen, and V. Anderson. 2009. Innovative Use of Seed-Coating Technologies for the economic Restoration of Natural Soil Hydrology and Functional Plant Communities on Burned Semi-arid Rangelands. USDA CREES. \$435,600 funded, October 2009- 2012. One year extension to Oct 2013.
- Roundy, B.A. 2009. Predicting root growth for Great Basin species using wet thermal accumulation. USDA Forest Service Rocky Mountain Station and USDI Bureau of Land Management Great Basin Restoration Initiative. \$52,000 funded for 4-year project.
- Roundy, Bruce A., Kert Young, April Hulet, Zachary Aanderud, and Steve Bunting. 2010. Piñon and juniper tree mastication effects in the Great Basin and Colorado Plateau. Joint Fire Sciences. \$506, 982 funded for 3-year project. 2010-2013. One year extension to 2014.
- Roundy, B. A. 2010. SageSTEP soil moisture station monitoring. USDA Forest Service Rocky Mountain Research Station. \$10,000-\$15,000 funded per year for ongoing project. 2010-2016. \$30,000 received in 2015 for 2015 and 2016.**
- Roundy, B.A. 2012. Predicting root growth for Great Basin species using wet thermal accumulation. USDA Forest Service Rocky Mountain Station and USDI Bureau of Land Management Great Basin Restoration Initiative. \$10,000 funded for summer PhD student project.
- Roundy, B. A. and K.R. Young. 2012. Restoration evaluation of fuel-control treatments in sagebrush-bunchgrass communities encroached by piñon-juniper. Submitted to Joint Fire Sciences Program requesting \$367,920 for 3-year project. Not funded.
- Roundy, B.A. 2012. Predicting root growth for Great Basin species using wet thermal accumulation. USDA Forest Service Rocky Mountain Station and USDI Bureau

of Land Management Great Basin Restoration Initiative. Additional \$10,000 funded for summer 2013.

Stringham, T. and many others including S.L. Petersen and Bruce A. Roundy. 2013. Development and sustainable production of biomass feedstocks from pinyon/juniper woodlands and encroached sagebrush ecosystems for hydrocarbon fuels. Requested \$9,662,986 from USDA National Institute of Food and Agriculture, Agriculture and Food Research Initiative: Sustainable Bioenergy. \$705,399 requested for BYU. Not funded.

Roundy, B., N. Cline, W. Christensen, B. Rau, and J. McIver. 2014. Using soil climate and geospatial environmental characteristics to determine plant community resilience to fire and fire surrogate treatments. U.S. Fish and Wildlife Service. Great Basin Landscape Conservation Coalition funding. Funded post-doc at \$68,649 for November 2014-November 2015.

St. Clair, S., M. D. Madsen, Bruce Roundy, Rick Gill, and Dean Pearson. 2016. Post-fire recovery of Great Basin sagebrush habitat using seed coating technology to overcome abiotic and biotic limitations to seedling establishment. Submitted to Joint Fire Sciences Program, November 2016.

State

Roundy, B.A. (P.I.). 1984. Evaluation of seedbed treatments and grass species seeded on semiarid rangelands in Arizona. \$17,500 for 3-year Hatch project.

Roundy, B.A. (Co-P.I.) and D. Despain (Co-P.I.). 1986. Management and Ecology of important Range Plants in Arizona. \$52,500 for 3-year project.

Roundy, B.A. (P.I.). 1987. The effects of natural and artificial heat treatments on germination and emergence of Lehmann lovegrass. \$24,000 for 3-year Hatch project.

Roundy, B.A. (P.I.) 1989. Management and Ecology of Important Range Plants in Arizona. \$48,500 for 3-year project.

Roundy, B.A. (Co-P.I.) and A.D. Matthias (Soils-Co-P.I.). 1990. Modelling simultaneous heat and water transport in the semidesert grassland. \$29,100 for 4-year Hatch project.

Roundy, B.A. (P.I.). 1992. Management and Ecology of Important Range Plants in Arizona. \$25,000 for 3-year project.

Roundy, B.A. (P.I.). 1992. Arizona Game and Fish Heritage Fund. Restoring native grasses to the desert grassland. \$23,600 total for 3-year project.

Roundy, B. A. 2008. Characterization and reclamation of spent oil shale. State of Utah Center of Excellence. \$15,000 for 1 year project.

Petersen, S. L. M.D. Madsen, and B. A. Roundy. 2008. Innovative use of seed pelleting technologies for the restoration of arid and semi-arid lands. State of Utah Invasive species mitigation fund. \$66,022.

Private

Wilson, P. (Co-P.I., Agricultural Economics), D. Ray (Co-P.I., Animal Sciences), B.A. Roundy (Co-P.I.) and W. Rasmussen (Co-P.I., Agricultural Engineering). 1989. Mexican Foundation for Rural Development. Rural development project for the Altiplano of San Luis Potosi, Mexico. \$100,000 total.

Roundy, B.A. (P.I.) and C. Plume (graduate student). Appleton-Whittel/Research Ranch Foundation. Establishment of Arizona sycamore from cuttings. \$1,000.

University

Roundy, B. A. 1994-2016. Brigham Young University Professional Development Funds. \$1,000-1,600 per year.

Roundy, B.A. and Phil Allen. 2001. College of Biology and Agriculture Undergraduate Mentorship Grant. \$5,000.

Roundy, B. A. and Phil S. Allen. 2002. College of Biology and Agriculture Undergraduate Mentorship Grant. \$3,900.

Roundy, B. A. and P. S. Allen. 2002-2004. John A. Widstoe Fellowship. Measuring soil water and nutrient availability in weed-resistant plant communities. \$20,000.

Anderson, V. and B. A. Roundy_ 2002-2005. Improve forage grasses and shrub availability on saline soils of the Altiplano. Benson Institute. \$29,000.

Anderson, V., B. Roundy, and R. Johnson. 2004. Maintenance of population variability in rare plant species during seed increase for restoration. Sant award, BYU. \$6,630.

Anderson, V. and B. A. Roundy_ 2002-2004. Conservation of forage species native to the Altiplano. Benson Institute. \$12,500.

Roundy, B.A. 2003. Mentorship funds from Brigham Young University. \$13,000.

Anderson, V., and B. Roundy. 2004. Mentoring environment grant from Brigham Young University for “Native plant diversification for wildlands”. \$15,000. for 1 year.

Roundy, B. and Turmandakh Badrakh. 2014. Effects of abscisic acid seed coatings to delay seed germination and avoid seedling frost mortality in range seedlings. \$9000 awarded by Redd Center to support a graduate student.

TEACHING

Courses Taught

Research Methods for Range Scientists: Once 1985.

Range Vegetation Improvements, Wildland Vegetation Improvements: 25 times 1984 through 2014.

Range Ecology: Once 1989.

Renewable Natural Resources Ecology (team taught): 3 times- 1991 to 1993.

Revegetation Ecology: Once 1993.

Restoration Ecology: 11 times 1995 through 2015.

Range Management: 11 times 1996, 2006-2015.

Watershed Management: 11times 1996 through 2015.

Book of Mormon: 6 times 1994 through 2005.

Invited lectures to other classes and seminars include: plant tolerance to herbivory, soil and plant water relations, overview of range improvements, rangeland vegetation manipulations, plant ecophysiology, soil crusts on rangelands, panel discussion on writing, editing, and publishing scientific articles, perspectives in rangeland revegetation, plant selection for wildland plant improvement, restoration ecology, fire in American history, and habitat manipulation for wildlife.

MENTORED UNDERGRADUATE STUDENTS

Lauren Bell-2006-2007: Effects of restored plant communities and native weeds on soil nutrients. Lauren gave an oral presentation at the Society for Range Management annual meeting in Reno, Nevada, February 2007- see contributed presentations.

Jennifer Coleman- 2005-2006: heat accumulation modeling of germination rate. Jennifer gave an undergraduate presentation on her research at the Society for Range Management meeting in 2006.

Jessica Hall- 2006- microcalorimetry assessment of seed germination potential.

Jeff Taylor- 2001-2002: Soil water sensor calibration and germination modeling. Installation of community ecology, weed invasibility study. Projects funded by International Aridlands Consortium Grant, College Mentorship Funds, and Joint Fire Sciences Grant from USDA Forest Service. Jeff has given two presentations at scientific meetings, prepared one paper for publication in a symposium proceedings (accepted for publication 2004), and prepared a draft manuscript for publication in a scientific journal. **Published in 2007 in Arid Land Research and Management- see refereed articles.**

Tashina Chipman and Mahaini Fuller- 2003-2004: Native plant resistance to weed invasion; each prepared a presentation for the Society for Range Management meeting which was presented January 2004.

Luke Marchant- 2004: Water relations and growth of native species in restored plant communities.

Scott Davis- 2004 to 2006: Heat accumulation prediction of native plant seedling establishment. Scott gave a presentation on his research at the Society for Range Management meeting in 2006. He is a junior author on a graduate student-authored publication published 2011.

Five undergraduate students- with V. Anderson in 2005: Native seed and crested wheatgrass diversification studies.

Darrell Roundy- Modelling seedling root growth in response to temperature. Co-mentored with Kert Young, PhD candidate, Fall 2010. Darrell gave a presentation on his research at the Society for Range Management undergraduate paper session in February 2011.

Jordan Bybee- Vegetation and fuel responses to tree mastication. Co-mentored with April Hulet, PhD candidate summer and fall 2010.

Kate Neville Fernelius- mentored in undergraduate research project on water repellent soils 2011. Kait is currently an MS graduate student.

Darrell Roundy- Remote sensing image analysis tools for estimating tree cover and biomass. Co-mentored with April Hulet, PhD candidate, Fall 2011. Darrell gave a presentation on his research at the Society for Range Management undergraduate paper session in February 2012 and an updated version February 2013. Darrell finished his MS degree with Steven Petersen as major adviser in 2015.

Wyatt Shakespear- Soil water availability after tree control. Wyatt worked two years on our field sampling crew (2012-2013), and gave a paper in the undergraduate session of the Society for Range Management meeting on soil water availability. He has now finished his MS degree under my supervision.

GRADUATE COMMITTEES

Major advisor for MS Students completed 1986-2014: 24; Currently major advisor for 2. Major advisor for PhD students completed 1990-2014:11; **Major advisor for 1 post-doc student, Nathan Cline, in 2015.**

Member of Graduate Committees for MS students 1994-2015: 26
Member of Graduate Committees for PhD students 1994-2015: 6

GRADUATE STUDENTS

<u>MS Major Advisor (since 1986)</u>	<u>MS Committee Member (since 1994)</u>
Cathy Plume	Garrett Lowe
Brad Sumrall	Melissa Britton
Mark Briggs	Tom Monaco
Michael Winn	Maren Christensen
Sharon Biedenbender	Allison Stewart
Carl Adams	Chad Horman
Steven Petersen	Ashley Green
Kim Jones	Scott Jensen
Deborah Turley	Rob Cox
Mary Dearden	Amy Taylor
Tyler Thompson	Jason Vernon
Jeff Ott	Rachel Cosgriff
Allison Whittaker	Dyllan George
Danny Summers	Susana Mogensen
Daniel Eddington	Neil Bryan
Cristina Juran	Matt Simmons
Nathan Cline	Jason Scott
April Hulet	Necia Beck
Jennifer Coleman	Josh Voss
Daniel Zvirzden	Bracken Davis
Jordan Bybee	Ammon Boswell
Kaitlynn Neville Fernelius	Ally Searle

Wyatt Shakespear
Turmandakh Badrakh
Rachel Williams (U of Illinois)
Debbie Rigby
Katie Hawkins
Darrell Roundy
Tayte Campbell
Ryan Call
William Richardson

PhD Major Advisor (since 1990) PhD Committee Member (since 1994)

Von Winkel
Margaret Livingston
Hossein Heydari
Carolyn Watson
Laurie Abbott
Bruce Glisson
Toupta Bougena
Stan Kitchen
Kert Young
April Hulet
Nathan Cline
Allan Stevens
Danny Raymer
Matthew Madsen
Kathie Davies
Scott Jensen
Christina Call
Tara Bishop

PROFESSIONAL DEVELOPMENT ACTIVITIES (starting 2006)

Seminar on Structural Equation Modeling led by Jim Grace, Utah State 4-5 April 2006, Utah State University, Logan, Utah.

Fire Fighter FFT2 qualifications course conducted by Uinta National Forest- 12-13, 19-20 May 2006, Orem, Utah.

PC-ORD short course, 3-6 April 2011. Durham, Oregon. Three-day course on multivariate ordination statistics and software.

Structural equation modeling of sagebrush steppe communities encroached by conifers. Lafayette, Louisiana. 11-14 May 2015. Led by Jim Grace, accompanied by William Christensen, Zachary Aanderud, Nathan Cline (BYU), and Jim McIver (OSU).

Bruce Roundy Up-coming Publications Status for 2017

Published: 2

In revision: 4

Additional planned submission in 2017: 3-5

Published 2017

Bates, J. D. K. W. Davies, A. Hulet, R. F. Miller, and **B. A. Roundy**. 2017. Sage-grouse groceries; forb response to piñon-juniper treatments. Rangeland Ecology and Management 70:106-115.

Boswell, A, S. Petersen, **B. Roundy**, R. Jensen, D. Summers, and A. Hulet. 2017. Rangeland monitoring using remote sensing: comparison of cover estimates from field measurements and image analysis. *AIMS Environmental Science* 4: 1-16. DOI: 10.3934/environsci.2017.1.1

In revision

Chambers, J. C., D. I. Board, and **B. A. Roundy**. 2017. Interacting effects of perennial herbaceous species removal and fire determine ecosystem resilience in cold desert shrublands. *Journal Vegetation Science*.

Cline, N., **B. Roundy**, and William F. Christensen. Using germination prediction to inform seeding potential: I. Temperature range validation of germination prediction models for the Great Basin, USA. *Journal of Arid Environments*.

Cline, N., **B. Roundy**, S. Hardegree, and W. Christensen. 2017. Using germination prediction to inform seeding potential: II. Comparison of germination predictions for cheatgrass and potential revegetation species in the Great Basin, USA. *Journal of Arid Environments*.

Fernelius, Kaitlynn J., M.D. Madsen, B. G. Hopkins, S. Bansal, V. Anderson, D.L. Eggett, and **B. Roundy**. 2017. Post-fire interactions between soil water repellency, soil fertility, and plant growth in soil collected from a burned pinyon-juniper woodland. *Journal of Arid Environments*.

Submitted or in preparation

Hardegree, S. H., J. T. Abatzoglou, M. W. Brunson, M. J. Germino, K. C. Hegeswisch, C. A. Moffet, D. S. Pilliod, **B. A. Roundy**, A. R. Boehm, M.M. Brabec, and G. R. Meredith. 2017. Weather-centric rangeland revegetation planning. Submitted to *Rangeland Ecology and Management*.

Williams, R., **B.A. Roundy**, April Hulet, Rick F. Miller, R. J. Tausch, J. C. Chambers, J. Matthews, R. Schooley, and D. Eggett. 2017. Effects of pretreatment tree dominance and conifer removal treatments on plant succession in sagebrush communities. To be submitted to *Forest Ecology and Management*.

Roundy, B., J. C. Chambers, R. F. Miller, R.J. Tausch, and R. Williams. 2017. Soil water availability and temperatures associate with sagebrush community resistance and resilience after woody fuel control. To be submitted to *Journal of Applied Ecology*.

Summers, D., **B. A. Roundy**, and S. Davis. Long-term vegetation response to mechanical renovation of sagebrush steppe. To be submitted to *Rangeland Ecology and Management*.

Zvirzdin, D. L., M.D. Madsen, **B.A. Roundy**, S.L. Petersen, and V.J. Anderson. Post-fire soil water repellency: extent, severity and thickness relative to ecological site characteristics within piñon-juniper woodlands.

Cline, N., **B. Roundy**, and K. Young. Spring drying and wetting for seedling root zones in the Great Basin. To be submitted to *Vadose Zone Journal*.

Cline, N. and B. A. Roundy. A random forest model for predicting outcomes of conifer control in sagebrush steppe.

Cline, N., **B. A. Roundy and W. Christensen**. Environmental variables associated with resilience and resistance in sagebrush steppe communities after conifer control.

Hulet, A., B. A. **Roundy**, M. D. Madsen, and M. Brunson. Post-fire rehabilitation practices on rangelands in the Intermountain West: What Land Managers Think.

Shakespear, W., K. Young, **B. A. Roundy**, A. Hulet, and J. Bybee. Fuel responses to mastication of pinyon and juniper trees. To be submitted to Forest Ecology and Management.