



JOHN A. BISSONETTE
Curriculum Vitae

Updated 1/25/09

ADDRESS

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Faculty Web Site: <http://www.cnr.usu.edu/htm/facstaff/memberID=764>
Wildlife and Roads Web Site: www.wildlifeandroads.org
American Association of State Highway and Transportation Officials (AASHTO) site for our national decision tool protocol: http://environment.transportation.org/environmental_issues/wildlife_roads/decision_guide/manual
Home page: www.wildlifeandroads.org/john
Cooperative Research Units Site: <http://coopunits.org/cooptor/coopunits.html>

EDUCATION

B.A. **University of Vermont**
M.F.S. **Yale University**
Ph.D. **University of Michigan**

CERTIFICATIONS

Certified Wildlife Biologist®, The Wildlife Society, 1983

PROFESSIONAL POSITIONS

1985-present Utah State University

Leader, **US Geological Survey, Utah Cooperative Fish and Wildlife Research Unit**
Professor, Department of Wildland Resources, College of Natural Resources, Utah State University, Logan UT (6/85 - present)

1981-1985 University of Maine

Acting Leader, **USFWS Maine Cooperative Fish and Wildlife Research Unit** (6/83-6/85)
Assistant Leader (2/81-6/83)
Associate Professor, Dept. Wildlife Ecology, College of Natural Resources, Forestry & Agriculture, University of Maine, Orono ME (2/81-6/85)

1977-1981 Oklahoma State University

Acting Leader, **USFWS Oklahoma Cooperative Wildlife Research Unit** (12/79-5/80)
Assistant Leader (8/77-1/81)
Assoc. Professor, Department of Wildlife, Oklahoma State University, Stillwater OK (8/77-1/81)

1975-1977 Arizona State University

Assistant Professor, Dept. Vertebrate Zoology, Arizona State University, Tempe AZ (9/75-7/77)

FELLOWSHIPS, HONORS, and AWARDS

- 1971 Elected Member, Sigma Xi, 3/71
- 1972 Fellow of the Welder Wildlife Foundation
- 1975 Howard M. Wight Award, School of Natural Resources and Environment, U. Michigan.
- 1976 Samuel A. Graham Award, School of Natural Resources and Environment, U. Michigan.
- 1983 Certified Wildlife Biologist
- 1992 American Institute of Fishery Research Biologists Outstand Group Achievement Award
- 1996 Award of Merit, Utah Chapter of the Wildlife Society
- 1996 USDI- U.S. Geological Survey Star Award, for book: *Integrating People and Wildlife for a Sustainable Future 1995* (Allen Press)
- 1997 Award of Excellence, Utah Chapter of the Wildlife Society
- 1997 USDI- U.S. Geological Survey Star Award for book: *Wildlife & Landscape Ecology: Effects of Pattern and Scale 1997* (Springer-Verlag)
- 1997 USDI- U.S. Geological Survey Cooperative Research Units Chief's Award presented to the Utah Cooperative Fish and Wildlife Research Unit for Unit Research, 6/97
- 1998 Distinguished Lecturer, German American Academic Council Foundation, Universität München, Munich Germany, 6/25-7/6 (see below for topics)
- 2002 Senior Fulbright Scholar, Technische Universität München, Freising Germany. 1/16-5/15
- 2002 Visiting Professor, VT CFWRU, University of Vermont, 8/1-11/15/02
- 2002 USDI- U.S. Geological Survey Star Award for book *Landscape Ecology and Resource Management: Linking Theory with Practice 2003* (Island Press)
- 2003 USDI- U.S. Geological Survey Star Award for book *Road Ecology: Science and Solutions 2003* (Island Press)
- 2004 Elected Fellow of the Wildlife Society
- 2005 Deutsche Forschungsgemeinschaft Mercator Visiting Professor at Albert-Ludwigs-Universitaet Freiburg, 15 September-15 December 2005. Landscape Ecology Short Course, 2 weeks, Albert-Ludwigs-Universitaet, Freiburg Germany 29 Nov. - 9 Dec. 2005.
- 2006 USDI-U.S. Geological Survey Star Award, for FY 2006 Performance
- 2007 USDI-U.S. Geological Survey Star Award, for FY 2007 Performance
- 2008 USDI-U.S. Geological Survey Star Award, for FY 2008 Performance

INVITED SEMINARS, PRESENTATIONS, and WORKSHOPS

- U.S. -

- 1977 Bissonette, J. A. 1977. The importance of habitat to wildlife. Invited talk presented at the Corps of Engineers National Hunting and Fishing Day Festivities, Keystone Dam, Oklahoma.
- 1983 Bissonette, J. A. 1983. The units of selection: Individual vs. group selection. Invited Seminar presented at the *Lecture Series in Evolution* held at Unity College, ME.
- 1987 Bissonette, J. A. 1987. Landscape change and its effect on endangered pine marten: Paradigms from Newfoundland. Invited paper delivered in the **Distinguished Lecture Series**, University of Arizona, Tucson. April.

- 1989 Bissonette, J. A. 1989. Solving resource problems: The effect of scale--or, does methodology help or hinder? Invited lecture delivered as the **11th Glenn Allen Paur Memorial Lecture**, University of North Dakota, Grand Forks, 13 April.
- 1990 Bissonette, J. A. 1990. Earth Day 1970 and 1990: Implications for the 1990's. Presented at a panel discussion at the School of Natural Resources, University of Michigan, Ann Arbor, 4 April.
- 1990 Bissonette, J. A. 1990. Landscape level approaches to solve endangered species problems. Invited seminar presented to the Biology Department, University of Utah, Salt Lake City, 20 April.
- 1991 Bissonette, J. A. 1991. Landscape perspectives: The meaning of chaos theory and fractal geometry to forest biologists. Invited presentation at a short course "Silviculture for non-silviculturists." Forest Resources Department, Utah State University, Logan, 3 April.
- 1991 Bissonette, J. A. 1991. Core area species, fragmentation, and landscape approaches: Appropriate for refuge management? Invited presentation to the Nongame Wildlife Workshop (USFWS Reg. 6 Refuges), Golden CO, 30 April.
- 1991 Bissonette, J. A. 1991. Regression in forest succession stages and its implication for core sensitive species: A global look at marten habitat futures. Invited talk presented at the Symposium on the biology and management of martens and fishers at the University of Wyoming Laramie, 30 May.
- 1992 Bissonette, J. A. 1992. Landscape ecology: Fundamental concepts for wildlife and forest biologists. Invited presentation at a short course: Silviculture for Non-silviculturists. Forest Resources Department, Utah State University, Logan, 1 April.
- 1992 Bissonette, J. A. 1992. Theory of landscape ecology and ecosystem management. Invited presentation at a Wildlife Habitat Management Short Course, Fish and Wildlife Department, Utah State University, Logan, UT. 7 April.
- 1994 Bissonette, J. A. 1994. Change is the defining characteristic of ecological systems. Invited lecture to the Applied Biodiversity Conservation Workshop (Course no. 1730-4) sponsored by the Bureau of Land Management and held in Vernal, UT 31 October
- 1995 Bissonette, J. A. 1995. Landscape ecology: Concepts that resource managers need to know. Invited lecture to the Applied Biodiversity Conservation workshop (Course no. 1730-4c) Sponsored by the Bureau of Land Management and held in Riverside CA. 6 February, and in Worland, WY. 12 March.
- 1996 Bissonette, J. A. 1996. Scale-sensitive properties influence marten demographics. Invited lecture presented at the University of Arizona, Tucson Arizona, 14 November.
- 1997 Bissonette, J. A. 1997 Scale-sensitive ecological properties: Historical context, current meaning. Invited seminars presented at: a) University of Georgia, Athens GA, 14 February; b) Oklahoma State University, Stillwater OK, 17 February; c) University of Alaska-Fairbanks, Fairbanks AK 27 March; d) Kansas State University, Manhattan KS, 17 April; e) University of Vermont, Burlington VT 24 April; f) Memorial University of Newfoundland, St. John's NFLD, Colloquium on 2 May; g) U. Wyoming NPS Research Center, Grand Teton Natl. Park, Moran WY, 3 July

- 1997 Bissonette, J. A. 1997. Scale-sensitive properties influence marten demographics. Invited lecture presented at Oklahoma State University, 18 February, University of Vermont 25 April.
- 1998 Bissonette, J. A. 1998. Belief systems in ecology: Understanding at multiple scales. Invited seminar presented at the University of Nevada-Las Vegas (Biology Dept.), 16 April.
- 2000 Bissonette, J. A. 2000. Ecosystem health and surface transportation: Reducing the virtual footprint. Invited presentation to National Academy of Science (National Research Council) for the Ecosystem Health Panel: Research Priorities for the Transportation Environment, Washington D. C., 26 September.
- 2002 Bissonette, J. A. 2002. Wildlife Populations: Effects of the roaded landscape. Invited presentation to National Academy of Science (National Research Council) Transportation Research Board, Washington, D. C., 14 January.
- 2002 Bissonette, J. A. 2002. Land fragmentation: Mismatched philosophical and analytical approaches in ecology. Invited Seminar presented at the University of Vermont, Burlington, VT, 19 September.
- 2002 Bissonette, J. A. 2002. Early antecedents of conservation in the United States. Invited Seminar presented to undergraduate honors class at the University of Vermont, 23 September.
- 2002 Bissonette, J. A. 2002. Patterned landscapes and complicated population: Curbing excessive generality. Invited Seminar presented at the University of Massachusetts December 4, and at Harvard University December 6.
- 2004 Bissonette, J. A. 2004. Scale Sensitive Properties: Differentiating causality in landscape ecology. Invited lecture to landscape ecology class at Auburn University, Alabama, 29 January.
- 2004 Bissonette, J. A. 2004. Time: The forgotten dimension in landscape ecology. Invited Weaver lecture, Auburn University, Auburn AL, 30 January.
- 2005 Cramer, P. and J. A. Bissonette 2005. Wildlife and roads: The state of the science and practice. Invited presentation from the Southern Rockies Ecosystem Project to present the paper at the Rockies Wildlife Crossing Field Course, Payson Arizona, 11 April.
- 2006 Cramer, P. C. and J. A. Bissonette. 2006. Invited. The use and effectiveness of wildlife crossings. Invited presentation to the Natural Resources Law Forum at the Wallace Stegner Center for Land, Resources and the Environment, S. J. Quinney College of Law, University of Utah, Salt Lake City, UT. 7 February 2006.
- 2007 Bissonette, J. A. Invited Seminar. 2007. Landscape permeability in roaded landscapes: the role of allometrically spaced wildlife crossings, Brigham Young University, 21 September.
- 2008 Bissonette, J. A. Invited Seminar. 2008. Restoring landscape permeability to the roaded landscape: Finding the distance. Idaho State University, 8 May 2008.

-INTERNATIONAL-

- 1993 Bissonette, J. A., and S. M. Broekhuizen. 1993. Effects of habitat spatial patterns on Martes population in Europe and North America: A multi-scale approach. Invited paper presented at the Symposium: Landscape Approaches in Mammalian Ecology: Effects of

- Habitat Spatial Configuration, Sixth International Theriological Congress, Sydney Australia, 9 July.
- 1996 Bissonette, J. A. 1996. Arches, the hot hand, and belief systems in wildlife ecology. Invited seminar presented at: a) School of Renewable Natural Resources, University of Arizona, Tucson, Arizona. 15 November; b) Universität München (Lehrbereich für Wildbiologie und Wildtiermanagement), Munich Germany, 26 November; c) International School of Ethology 12th Workshop: Research Techniques in Ethology and Animal Ecology: Uses and Misuses, Ettore Majorana Centre for Scientific Culture, Erice, Sicily 2 December
- 1998 Bissonette, J. A. 1998. Presented at Universität München, (Lehrbereich für Wildbiologie und Wildtiermanagement) Munich Germany, 6/25-7/6: a) Understanding natural phenomena: Traditional beliefs, heresy, and truth in science (public lecture); b) Marten habitat choice; Realistic answers at different scales (research lecture); c) Wildlife research and management in the USA and Germany: Differences, similarities, opportunities (round-table discussion); d) Analyzing landscape-scale wildlife-habitat relationships using FRAGSTATS and computer generated maps (workshop)
- 1998 Bissonette, J. A. 1998. Linking ecological processes across spatial scales and hierarchical levels: Do we really understand the effects of land-use changes? Invited seminar presented in Bologna, Italy at the invitation of the General Director of the Italian National Institute for Wildlife, 23 July
- 1999 Bissonette, J. A. 1999. Thinking differently at larger scales: The essence of Escher-almost. Invited keynote address presented at the 12 Annual Meeting of the Australasian Wildlife Management Society, Darwin Australia, 2 December.
- 1999 Bissonette, J. A. 1999. Summary remarks: Indigenous wildlife management: A global perspective for the Symposium titled: Indigenous wildlife management: Old ways, new ways, held at the 12 Annual Meeting of the Australasian Wildlife Management Society, Darwin Australia, 2 December.
- 1999 Bissonette, J. A. 1999. Connecting pattern and process at larger scales. Invited seminar presented at the Manaaki Whenua Landcare Research, Lincoln, New Zealand, 25 November.
- 1999 Bissonette, J. A. 1999. Larger-scale ecology: What is the conceptual framework? Invited seminar presented at the Grimsö Wildlife Research Station, Department of Conservation Biology, Swedish University of Agricultural Sciences, Riddarhyttan Sweden, 9 December.
- 2000 Bissonette, J. A. 2000. Invited by Martes 2000 Program Committee for the 3rd International Martes Symposium to participate in a panel discussion "Habitat Requirements of Martes" in Corner Brook, Newfoundland. 16 August.
- 2000 Bissonette, J. A. 2000. Concluding remarks. Invited presentation for the III International Martes Symposium: Martes in Managed Landscapes. Corner Brook, Newfoundland, Canada. 16 August.
- 2001 Bissonette, J. A. 2001. Wildlife of the Northern Rockies. Invited presentation from the American Embassy in Lisbon to the American International School of Lisbon (Portugal), in Sintra Portugal, 30 October.
- 2001 Bissonette, J. A. 2001. The fragmentation of nature and the nature of fragmentation, Invited Keynote Address for the 6th Annual Meeting of the Portuguese Ecological Society, Lisbon, 1-3 November.

- 2002 Bissonette, J. A. 2002. Wagon trains and fur trappers: Early conservation in the United States. Invited seminar given to the faculty of the Wissenschaftszentrum Weihenstephan Fachgebiet fuer Wildbiologie und Wildtiermanagement at the Technische Universität München, Freising Germany, 28 June.
- 2002 Bissonette, J. A. 2002. Invited Protected Areas Workshop conducted at the Technische Universität München, Freising, Germany, 25 May.
- 2003 Bissonette, J. A. 2003. Invited Landscape Ecology Workshop, 2 weeks, University of Lisbon, Portugal 16-27 June 2003. 18 M.S. and Ph.D. students.
- 2005 Bissonette, J. A. 2005. Taking the road less traveled: The importance of scaling road effects allometrically. Invited presentation for the Symposium titled "Reducing habitat fragmentation by roads: A comparison of measures and scales", INTECOL-ESA 2005 Joint Meeting, Montreal Canada, 7-12 August.
- 2005 Bissonette, J. A. 2005. Time: The neglected dimension in landscape ecology. Invited seminar to the Central Science Laboratory, Department for Environment, Food, and Rural Affairs, York, Great Britain, 24 August 2005.
- 2005 Bissonette, J. A. 2005. Restoring habitat networks: The role of allometrically-scaled wildlife crossings. Invited Plenary Lecture for the Symposium titled: Habitat Networks for Large Wildlife and Habitat Fragmentation, 27th Congress of the International Union of Game Biologists, Hannover, Germany, 31 August 2005.
- 2005 Bissonette, J. A. 2005. Biodiversity issues: Is the world getting better. Class with I. Storch presented at the University of Freiburg, 7 November 2005.
- 2005 Bissonette, J. A. 2005. Scaling wildlife crossings: Getting the distance right. Invited Presentation given at the University of Freiburg, Freiburg, Germany, 16 November 2005.
- 2007 Visiting Professor at Albert-Ludwigs-Universitaet Freiburg, three week short course in landscape ecology, 3 Nov. - 1 Dec. 2007
- 2009 Bissonette, J. A. 2009. Decision-making in road ecology: Developing the framework. Invited Presentation for the 4TH Australian Road Engineering & Maintenance Conference 2009 titled 'Breaking the Barriers: Engineering Solutions to Ecological Problems', Brisbane, Australia, 6-8 May 2009.
- 2009 Bissonette, J. A. 2009. Road Networks and biodiversity: A framework for understanding effects. Invited Presentation for the Symposium in Road Ecology in Latin America as part of the 2008 Latin American International Association for Landscape Ecology to be held in Campos do Jordão, Brazil October 4-7, 2009

INVITED EXTERNAL THESIS AND DISSERTATION EXAMINER

- McCallum, I. 1993. M.Sc.F. Long-term Effects of Timber Management on Marten Habitat Potential in an Ontario Boreal Forest. MScF thesis, Faculty of Forestry, **Lakehead University**, Thunder Bay Ontario (supervisor: Peter Duinker).
- Forsey, E. S. 1998. M.S. A study of mammalian activity in riparian habitats prior to and immediately following forest harvesting in the Copper Lake Watershed, Newfoundland. M.S. Thesis, **Memorial University**, St. John's Newfoundland Canada (supervisor: Bill Montevecchi).

- Devine, D. 1998. Ph.D. Habitat Patch Dynamics of Desert Bighorn Sheep *Ovis canadensis nelsoni* in the Eastern Mojave Desert. Ph. D. Thesis, **University of Nevada**, Las Vegas NV (Supervisor: Charles Douglas).
- Jansson, G. 1999. Ph.D. External opponent to conduct defense of Ph.D. dissertation "Landscape composition and birds in managed boreal forest. Ph.D. Dissertation, **Swedish Agricultural University**, Upsalla Sweden (supervisor: Hendrik Andren).
- Bowman, J. 2000. Ph.D. The spatial structure of small-mammal populations in a managed forest. Ph.D. Dissertation, **University of New Brunswick**, New Brunswick Canada (Supervisor: Graham Forbes).
- Kaufmann, Cynthia K. 2000. M.Sc. F. Analysis of Spatial Harvest Constraints on Ecological (Wildlife Habitat) versus Economic (Timber Harvest) Objectives. M.Sc.F. Thesis, **Lakehead University**, Thunder Bay Ontario Canada (Supervisor: Rob Remple).
- Pechacek, P., Ph.D. 2005. External Reviewer to the Evaluation Committee for the Postdoctoral Habilitation Thesis: How do animals use their habitat. Behavioral studies as the basis for conservation biology. **Albert Ludwigs Universität** (Universität Freiburg), Freiburg Germany (Supervisor: I. Storch).
- Ludwig, Tobias, Ph.D. 2008. External reviewer or Ph.D. Thesis: "Landscape change and extinction processes: The case of black grouse in lowland central Europe. **Albert Ludwigs Universität** (Universität Freiburg), Freiburg Germany (Supervisor: I. Storch).
- Spasikova, Sofce, M.S. student. 2009. External advisor on landscape corridor report. **Albert Ludwigs Universität** (Universität Freiburg), Freiburg Germany (Supervisor: I. Storch).

VISITING SCHOLARS HOSTED

- Dr. Peter Robertson**, Central Science Laboratory, Sand Hutton, York, YO41 1LZ, **England**.
 A) Visiting Quinney Scholar, January-May 1993
 B) Organization for Economic Co-Operation and Development Scholarship, August-December 2003. (Habitat Composition and Spatial Arrangement: Separating the Attributes of Landscape Character)
- Dr. Ilse Storch**, Department of Wildlife Ecology and Management, **University of Freiburg**, Freiburg, Germany. June- October 1997, September-October 1998 (Scale Dependency and the Indicator Concept)
- Dr. H. Gray Merriam**, Department of Biology, **Carleton University**, Ottawa Canada, Visiting Quinney Scholar, January - March 1997. (seminar on Scale Effects and Landscape Processes)
- Dr. Dan Keppie**, Faculty of Forestry and Environmental Management, University of New Brunswick, St. John, New Brunswick, Canada. Visiting Quinney Scholar, September 1995-August 1996.
- Dr. Peter Pechacek**, Albert Ludwigs Universität (Universität Freiburg), Freiburg Germany, 21 March - 3 April 2006.

GRADUATE STUDENTS --Completed Theses

- 1980 An assessment of damage to pecans by wildlife in central Oklahoma, R.R. Leppla, M.S. (Co-advisor)

- 1980 Habitat requirements of white-tailed deer in the post oak-blackjack oak habitat type, R. A. Ockenfels, M.S.
- 1980 The ecology and behavior of blue jays in Oklahoma pecan orchards, G. R. Batcheller, M.S.
- 1982 Foods of migrating coots *Fulica Americana* and sympatric ducks during fall and spring in northeastern Oklahoma, C. T. Patterson, M.S.
- 1982 Beaver-cottonwood interactions and beaver ecology in Big Bend National Park, P. I. V. Strong, M.S.
- 1982 A quantitative assessment of barn owl nesting habitat quality, J. W. Ault III, M.S.
- 1984 Winter habitat use and ecology of red fox in eastern Maine and the history of red fox in Maine, M. A. Halpin, M.S.
- 1984 Factors influencing harvest levels of fisher in south central and southeastern Maine, P. W. Rego, M.S.
- 1984 Bobcat movements in relation to prey density, J. A. Litvaitis, Ph.D. (Co-advisor)
- 1984 Marten use of clearcuts and residual forest in western Newfoundland, J. E. Snyder, M.S.
- 1985 Habitat selection by common loons, P.I.V. Strong, Ph.D.
- 1986 Fox-coyote interactions in western Maine, D. Engelhardt, M.S.
- 1986 Coyote dispersal, mortality, and spatial interactions with red foxes in Maine. D. J. Harrison, Ph.D. (Co-advisor)
- 1988 The effects of forest harvesting on small mammals in western Newfoundland and its significance to marten, B. J. Tucker, M.S.
- 1988 The feasibility of river otter reintroduction in northern Utah, J. P. Bich, M.S.
- 1990 The effects of disease, prey fluctuation, and clear-cutting on American marten in Newfoundland, Canada, R. J. Fredrickson, M.S.
- 1990 The effect of seasonal cattle grazing on California bighorn sheep habitat use, M. J. Steinkamp, M.S.
- 1992 Marten use of subnivean access points in Yellowstone National Park, WY. S. S. Sherburne, M.S.
- 1994 Assessing mourning dove population declines: changes in nesting dynamics and the role of perch sites. P. M. Meyers, M.S. (Co-advisor)
- 1994 Disease and habitat change as factors associated with mourning dove population decline. W. D. Ostrand, M.S.
- 1994 Factors associated with the highway mortality of mule deer at Jordanelle Reservoir, Utah. L. A. Romin, M.S.
- 1995 Winter habitat selection by American marten *Martes americana* in Newfoundland: Why old growth? G. S. Drew, Ph.D.
- 1996 Second growth forest as potential marten habitat in western Newfoundland: An examination of forest habitat structure and microtine abundance. B. R. Sturtevant, M.S.
- 1996 The influence of forest fragmentation and landscape pattern on American martens and their prey, C. D. Hargis, Ph.D.
- 1996 Mule deer-highway mortality in northeastern Utah: An analysis of population level impacts and a new mitigative system, M. E. Lehnert, M.S.
- 1998 Limitations on Canada goose production at Fish Springs National Wildlife Refuge, Utah. D. S. Stolley, M.S.

- 1999 Investigation of the determinants of African savanna vegetation distribution: A case study from the Lower Omo Basin, Ethiopia. C. A. Schloeder, Ph.D.
- 2001 Energy, fractal movement patterns, and scale-dependent habitat relationships of urban and rural mule deer. M. F. McClure, Ph.D.
- 2001 Early life state ecology of the desert tortoise (*Gopherus agassizii*) in the south-central Mojave desert. C. D. Bjurlin, M.S.
- 2001 Development of a bird-avoidance model for Naval Air Facility El Centro, California. E. J. Zakrajsek, M.S.
- 2001 Effectiveness of earthen escape ramps in reducing big game mortality in Utah, M. L. Hammer, M.S.
- 2002 Coyote foraging ecology, vigilance, and behavioral cascades in response to gray wolf reintroduction in Yellowstone National Park, T. A. Switalski, M.S.
- 2003 Modeling habitat quality for American martens in western Newfoundland, Canada, W. A. Adair, Ph.D.
- 2003 Breeding bird communities of major mainland rivers of southeastern Alaska, J. A. Johnson, M.S.
- 2005 Wildlife vehicle collisions in Utah: An analysis of wildlife road mortality hotspots, economic impacts, and implications for mitigation and management, C. A. Kassar, M.S.
- 2005 Bird and small mammal communities of sagebrush-dominated mountain meadows: An examination of meadow characteristics as part of a hierarchical, multi-level study of the Wasatch-Cache National Forest, E. Johnson, M.S.
- 2005 Landscape dynamics of bird and small mammal communities in sagebrush-dominated mountain meadows in the Wasatch-Cache National Forest: Part of a hierarchical, multi-level study, Tammy Wilson, M.S.
- 2006 Tapirs and rhinoceroses in captivity: An examination of the North American captive populations and their husbandry, Lisa Nordstrom, Ph.D.
- 2006 Highway effects on small mammal communities and effectiveness of a deer-vehicle collision mitigation strategy, Silvia Rosa, M.S. (Dec. 2006)
- 2008 The role of mammals in the structure, function, and sustainability of 'Montado' woodlands, a Mediterranean habitat. Dr. Miguel Rosalino, Ph.D. Post-Doctoral student (with Dr. Margarida Santos Reis, University of Lisbon).
- 2008 A conceptual framework for understanding effects of wildlife water developments in the American southwest, Randy Larsen, Ph.D. (November 21, 2008-accepted position at BYU Jan. 2009)
- 2008 Terrestrial small mammals from the Gamba complex in Gabon: Sampling techniques, distribution patterns, and landscape factors. Carrie O'Brien, M.S. (December 12, 2008)

GRADUATE STUDENTS -ongoing

- Modeling habitat selection behavior in territorial birds: towards a behavioral ecology of landscapes. Andreas Leidolf, Ph.D. (expected July 2009)
- Developing Riparian Bird Habitat Association Models and Management Guidelines, Hillary White, M.S. (expected December 2009)

Causes and Consequences of Lead-pellet Ingestion by Chukars (*Alectoris chukar*) in Western Utah: Examining Soil, Search Images, and Toxicology, Justin Bingham, M.S. (expected December 2009)

Modeling population effects of deer vehicle collisions, Dan Olson, Ph.D. (September 2008-December 2012)

Niche breadth and patterns of distribution and abundance of Eurasian otters in Southern Portugal: conservation implications, Teresa Sales Luís, Ph.D. (with Dr. Margarida Santos Reis, University of Lisbon, expected December 2009)

Modelling Habitat Connectivity for Carnivores: Implications for conservation planning, Clara Bentes Grilo Ph.D. (with Dr. Margarida Santos Reis, University of Lisbon, expected 2009)

GRADUATE RESEARCH COMMITTEES

From 1975 to May 2008, I served on >165 graduate committees

COURSES TAUGHT

Arizona State University:

Wildlife Management (4 hrs) Senior/Graduate, 1975-76

Biology for non-majors (4 hrs) Freshman/Sophomore, 1975-76

Animal Ecology (3 hrs) Senior, 1976

Non-Game Management (2 hrs) Graduate, 1977

Oklahoma State University:

Ecology of Ungulate Systems (3 hrs) Graduate, 1978-80

University of Maine:

Seminar on Ungulate Ecology (3 hrs) Graduate, 1982-83

Utah State University:

Wildlife Management Techniques (5 hrs), Graduate/Senior, 1985-89

Landscape Level Patterns & Processes. Graduate Seminar (2 hrs) 1990, Grad class 1991 (3 hrs)

Scale Effects and Landscape Processes--with H. Gray Merriam--Seminar 2 credits, Winter 1997

Wildlife Seminar (coordinator) Academic Year 1996-97

Landscape Ecology (3 hrs) Graduate, 1992-present.

SEMINARS, LECTURES, ABSTRACTS, AND PAPERS PRESENTED

(note: some presentations resulted in publications—given below under proceedings and symposia)

Bissonette, J. A. 1974. The status of biological research in Big Bend Natl. Park, Texas, with special reference to mammals. Presented at the Symposium on the Biological Resources of the Chihuahuan Desert Region, U.S. and Mexico. Sul Ross State University, Alpine TX.

Bissonette, J. A. 1975. The Michigan approach to wildlife ecology. Presented at Univ. Calif., Berkeley CA.

Bissonette, J. A. 1975. Relationship of behavior and ecology in collared peccaries. Presented at Univ. of Calif., Berkeley CA.

Bissonette, J. A. 1975. A population model for exploited species. Presented at Arizona State University, Tempe AZ.

Bissonette, J. A. 1976. Ecological determinants of group size in peccaries. Presented at:

- a) Univ. of New Hampshire, Durham; b) Arizona St. Univ., Tempe AZ; c) Arizona Acad. Sci. Meetings, Tucson AZ.
- Bissonette, J. A. 1976. Group territoriality in peccaries. Paper presented at the 55th Annual Meeting of the Amer. Soc. Mammal. Texas Tech University, Lubbock TX.
- Bissonette, J. A. 1977. Social organization and behavior and its relation to the ecology of peccaries. Presented at Oklahoma State University, Stillwater OK.
- Bissonette, J. A. 1977. Javelina, behavior and ecology. Presented at the Oklahoma Chapter of the Wildlife Society meeting at Fort Sill, OK.
- Bissonette, J. A. 1978. Javelina density dependency and habitat. Presented at Colorado State University, Fort Collins CO.
- Bissonette, J. A. 1979. Javelina densities and forage characteristics. Presented at the New Mexico-Arizona Subsection Meetings, TWS, Western New Mexico Univ., Silver City, N.M.
- Bissonette, J. A. 1979. Ecological determinants of javelina densities. Presented at the 59th Annual Meeting of the American Soc. of Mammal. Oregon State University, Corvallis OR.
- Bissonette, J. A. 1980. Estimate of total U.S. peccary populations. Presented at the New Mexico-Arizona Subsection Meetings, TWS, Eastern Arizona College, Thatcher, AZ.
- Bissonette, J. A., and R. A. Ockenfels, 1980. Differential use of cross timbers habitat by white-tailed deer. Presented at 3rd Annual Meeting of the S.E. Deer Study Group at Stephen F. Austin State Univ., Nacogdoches, TX.
- Bissonette, J. A. 1980. New revision of an old method to assess density effects. Presented at the School of Natural Resources, Univ. Vermont, Burlington VT.
- Bissonette, J. A., and G. R. Batcheller. 1980. Ecology and management of blue jays in Oklahoma pecan orchards. Presented at the 64th Annual Meeting, the Oklahoma Acad. Sci., Norman, OK.
- Bissonette, J. A., and C. Patterson. 1980. Feeding ecology of migrating American coots and sympatric ducks in northeastern Oklahoma. Presented at the 64th Annual Meeting of the Oklahoma Acad. Sci., Norman, OK.
- Bissonette, J. A. 1980. Differential determination of javelina densities in Sonoran and Chihuahuan habitats. Presented at the School of Forest Resources, University of Maine, Orono ME.
- Bissonette, J. A., and R. A. Ockenfels. 1981. A track-plot system to monitor habitat use. Presented at New Mexico-Arizona Wildlife Soc. Meeting, Gallup, NM.
- Bissonette, J. A., and R. A. Ockenfels. 1981. Activity levels of white-tailed deer in cross timbers habitat. Presented at 4th Annual Meeting of the S.E. Deer Study Group, Panama City Beach, FL.
- Bissonette, J. A. 1981. Behavioral consequences of density dependency. Presented at the Environmental Series Seminar, Unity College, ME.
- Bissonette, J. A. 1982. Peccary behavior and its relation to ecology. Presented at the University of Vermont, Burlington, VT.
- Bissonette, J. A. 1982. Wildlife and forest practices: A Maine perspective. Presented at the University of Vermont, Burlington, VT.
- Bissonette, J. A. 1983. Determinants of density in Chihuahuan desert peccaries. Presented at the University of Massachusetts, Amherst MA.

- Bissonette, J. A., and P. I. V. Strong. 1983. Ecological implications of living in desert riparian habitats. Presented at the 2nd Chihuahuan Desert Symposium, Sul Ross State University, Alpine, TX.
- Bissonette, J. A., and P. I. V. Strong. 1984. Making room for loons on New England's Golden Ponds. Presented to National Audubon Society Northeastern Regional Conference, Bowdoin College, ME.
- Bissonette, J. A., and F. DiBello. 1984. Seasonal food habits of coyotes in Maine with reference to deer. Presented at the 1984 meeting of the Northeast Deer Technical Committee, Greenville, ME.
- Bissonette, J. A., and M. Miller. 1984. Coyote predation of whitetails in winter deer yarding areas. Presented at the 1984 meeting of the Northeast Deer Technical Committee, Greenville, ME.
- Bissonette, J. A. 1984. Density dependence in deer: How northern extremes influence mortality. Presented at the University of Arizona, Tucson AZ.
- Bissonette, J. A. 1985. Life history characteristics and their relationship to peccary population density. Presented at Peccary Workshop, Univ. Arizona, Tucson AZ.
- Bissonette, J. A. 1985. Peccary social behavior: Key to density determinations. Presented at Utah State University, Logan UT.
- Strong, P. I. V., and J. A. Bissonette. 1987. Activity patterns of common loons in Maine (abstract). North American conference and workshop on loon research and management. Cornell Univ. Lab. of Ornithology, Ithaca NY, 18-19 Sept.
- Bissonette, J. A. 1989. American marten: A case for landscape management. 54th North American Wildlife and Natural Resources Conference, Wash., D.C., 20 March.
- Bissonette, J. A. 1989. Marten in Newfoundland: A core sensitive species in a patchy environment-- or, can interior species survive into the 21st Century? Invited seminar presented at the Noon Seminar Series of the Biology Department, University of North Dakota, Grand Forks ND.
- Bissonette, J. A. 1989. The future of wildlife management agencies in a changing society. Invited talk to the annual meeting of the Big Game Section of the Utah Division of Wildlife Resources. Given at the Pack Creek Ranch, Moab, UT, 5 September.
- Fredrickson, R. J., and J. A. Bissonette. 1991. Differential survival of American marten in Newfoundland, Canada. Poster presented at the Symposium on the biology and management of martens and fishers at the University of Wyoming, Laramie, 30 May.
- Sherburne, S. S., and J. A. Bissonette. 1991. Relationships of red squirrel middens to marten subnivean access points. Poster presented at the Symposium on the biology and management of martens and fishers at the University of Wyoming, Laramie WY, 30 May.
- Bissonette, J. A. 1992. Emerging values in wildlife management: Predator management in Utah. Presentation given as part of panel participation at the conference "Emerging values of wildlife," sponsored by the Utah Wilderness Association, Salt Lake City, UT. 8 Feb.
- Drew, G. S., and J. A. Bissonette. 1992. Conservation and the role of reductionism: From pattern to process. Paper presented at the Sixth Annual Meeting of the Society for Conservation Biology, Virginia Polytechnical Institute, Blacksburg, VA. 30 June.

- Drew, G. S., and J. A. Bissonette. 1992. Habitat selection of American marten (Martes americana): Resource access or avoidance of predation risk. Paper presented at the Annual Meeting of the Ecological Society of America, Honolulu HI, 11 August.
- Sherburne, S. S., and J. A. Bissonette. 1992. Subnivean access point choice by American marten (Martes americana): Homeothermic considerations or prey driven? Paper presented at the Annual Meeting of the Ecological Society of America, Honolulu HI, 11 August.
- Hargis, C. D., and J. A. Bissonette. 1993. Fractal geometry as a tool for quantifying forest fragmentation. Paper presented at the Annual Meeting of the Utah Chapter of The Wildlife Society, St. George UT, 2 February.
- Ostrand, W. D., and J. A. Bissonette. 1993. Causes of population decline in mourning doves in Utah. Paper presented at the Annual Meeting of the Utah chapter of The Wildlife Society, St. George UT, 2 February.
- Adair, W., and J. A. Bissonette. 1993. An energetics-based habitat model for marten in Newfoundland. Presented at the Technical Workshop for the Integration of Research Projects of the Western Newfoundland Model Forest Management Corporation, Corner Brook, Newfoundland Canada, 26 May.
- Sturtevant, B. R., and J. A. Bissonette. 1993. Secondary growth forest as potential marten habitat in Newfoundland. Presented at the Technical Workshop for the Integration of Research Projects of the Western Newfoundland Model Forest Management Corporation, Corner Brook, Newfoundland Canada, 26 May.
- Bissonette, J. A., and S. S. Sherburne. 1993. Relationship between subnivean access point use and subnivean prey. Paper presented at Forest Carnivore Populations and Habitat Symposium, 21st International Union of Game Biologists, Halifax, Nova Scotia Canada., 19 August.
- Bissonette, J. A., and C. D. Hargis. 1993. Linking landscape and smaller scale responses: A multi-scale model. Paper presented at the First International Wildlife Management Congress, San Jose, Costa Rica. 22 Sept.
- Bissonette, J. A., S. S. Sherburne, and R. D. Ramsey. 1993. GIS management of telemetry data. Paper presented at the First International Wildlife Management Congress, San Jose, Costa Rica., 25 Sept.
- Bissonette, J. A., and M. J. Steinkamp. 1994. California bighorn sheep response to ephemeral habitat fragmentation by cattle. Presented at First Ann. Conf. of The Wildlife Society: Excellence in wildlife stewardship through science and education, Albuquerque, NM, 24 Sept. 1994.
- Adair, W. A., and J. A. Bissonette. 1995. Individual-based modeling as a forest management tool: The Newfoundland marten as a case study. Special Session 4 Conservation Potpourri, 60th North American Wildlife & Natural Resources Conference, 28 March, 1995, Minneapolis MN.
- Hargis, C. D., J. A. Bissonette, and J. L. David. 1995. The effectiveness of various landscape measures in differentiating landscape pattern. Poster presented at the Tenth Annual U. S. Landscape Ecology Symposium, Univ. Minnesota, 22-26 April, 1995. Program Abstract p.85.
- Hargis, C. D., and J. A. Bissonette. 1995. The influence of forest fragmentation and prey availability on American marten populations: A multi-scale analysis. Presented at the Second International Martes Symposium, Univ. Alberta, Edmonton Alberta, Canada 12-16 August.

- Sturtevant, B. R., and J. A. Bissonette. 1995. Habitat associations of Microtus pennsylvanicus within forests of western Newfoundland as a factor influencing marten habitat quality. Presented at the Second International Martes Symposium, Univ. Alberta, Edmonton Alberta Canada, 12-16 August.
- Adair, W. A., and J. A. Bissonette. 1995. An individual-based habitat model for the Newfoundland marten. Presented at the Second International Martes Symposium, Univ. Alberta, Edmonton Alberta, Canada, 12-16 August.
- Hargis, C. D., J. A. Bissonette, and J. L. David. 1995. Behavior of landscape metrics within simulated random maps and anthropogenic landscapes. Presented as part of the symposium: A primer in Landscape Ecology held at the Second Annual Meeting of The Wildlife Society, Portland OR, 12-17 Sept.
- Bissonette, J. A. 1995. Scale issues, emergent properties, and transmutability of data. Presented as part of the symposium: A primer in Landscape Ecology held at the Second Annual Meeting of The Wildlife Society, Portland OR, 12-17 Sept.
- Machalek, M. J., T. L. Steel (deceased), J. A. Bissonette, and W. G. Workman. 1995. GIS analysis of second order habitat selection of a reintroduced population of desert bighorn sheep at Capitol Reef National Park. Presented at the Second Annual Meeting of The Wildlife Society, Portland OR, 12-17 Sept.
- Sturtevant, B. R., and J. A. Bissonette. 1995. Coarse woody debris dynamics and spatial heterogeneity within a boreal forest environment: implications for marten habitat management. Presented at the Second Annual Meeting of The Wildlife Society, Portland OR, 12-17 Sept.
- Bissonette, J. A. 1995. American marten habitat choice: Scaled multiple hypotheses provide some answers. Presented at the Third Biennial Conference on the Greater Yellowstone Ecosystem: Greater Yellowstone predators: ecology and conservation in a changing landscape, 26 Sept.
- Lehnert, M. E., and J. A. Bissonette. 1996. Effectiveness of an experimental crossing structure at reducing deer-vehicle collisions near Park City, Utah. Presented at the 19th Ann. Meeting of the Southeast Deer Study Group, Feb. 25-28, Orlando, FL.
- Lehnert, M. E., and J. A. Bissonette. 1996. Do experimental crossing structures reduce deer-vehicle collisions? Presented at the Ann. Meeting of the Utah Chapter of The Wildlife Society, Logan UT, 1 March.
- McClure, M., and J. A. Bissonette. 1996. Valley deer in Cache County: A search for management solutions. Presented at the Ann. Meeting of the Utah Chapter of The Wildlife Society, Logan UT, 1 March.
- McIvor, D. E., and J. A. Bissonette. 1996. Assessing subspecies status: A holistic approach to evaluating the Yuma Puma. Presented at the Fifth Mountain Lion Workshop, San Diego CA, 28 Feb-1 March,
- Bissonette, J. A. 1996. Linking temporal and spatial scales in wildlife research. Presented at the 61st North American Wildlife and Natural Resources Conference, Tulsa OK, 26 March.
- Lehnert, M., and J. A. Bissonette. 1996. Mule deer highway mortality in northeastern Utah: Causes, patterns, and a new mitigative technique. Presented at the Proceedings of the Transportation-Related Wildlife Mortality Seminar (Florida Dept. Transportation), Orlando FL, 1 May.

- Cooper, S. J., W. A. Adair, and J. A. Bissonette. 1996. Seasonal variation in the metabolism and insulation of the American marten (*Martes americana*). Physiological Ecology Meeting, Bishop, CA, 8-9 June, 1996
- Sturtevant, B. R., and J. A. Bissonette. 1996. Relative density index as a tool for examining forest habitat relationships: An example using the Newfoundland meadow vole. Poster presented at the 81st Annual Meeting of the Ecological Society of America, 11-14 August, Providence, R. I.
- Bissonette, J. A. 1997. Scale-sensitive properties and ecological understanding--are mechanistic explanations sufficient: The second challenge for landscape ecology. Poster presented at 12th Annual Symposium of the U.S. Regional Association of the International Association for Landscape Ecology: The Pace and Pattern of Landscape Change, Duke University, Durham, N.C., 16-19 March.
- Stolley, D. S., and J. A. Bissonette. 1997. The effects of saline drinking water on Canada goose gosling survival, growth, and feather development. Poster Session 1: Restoration, applied, and agro-ecology. Ecological Society of America Annual Meeting, Albuquerque N.M. 10-14 August.
- Lehnert, M. E., J. A. Bissonette, and J. W. Haefner 1997. Do road crossing structures for ungulates reduce mortality: Simulation modeling results from Utah, USA. Presented in Workshop A.5a "Influence of human disturbance on wildlife: Impact of Infrastructures" Game Management and Land Use in Open Landscapes Symposium at the International Union Of Game Biologists XXIII Congress at Ecole National Veterinaire de Lyon in Lyon France, 2 September.
- McClure, M. F., J. A. Bissonette, M. E. Ritchie, and M. R. Conover. 1997. A scale-dependent approach for studying wildlife habitat relationships. The Wildlife Society Fourth Annual Conference (Session 24), Snowmass Village CO, 21-27 September.
- Bissonette, J. A., and I. Storch. 1997. Scale, the tyranny of the story, and carnivore assessment. The Wildlife Society Fourth Annual Conference (Session 33), Snowmass Village CO, 21-27 September.
- Stolley, D. S., and J. A. Bissonette. 1997. The effect of saline drinking water, predation, and nutrition on Canada goose gosling survival, growth and feather development. The Wildlife Society Fourth Annual Conference (Session 31), Snowmass Village CO, 21-27 September.
- Bissonette, J. A. 1997 Biological effects of landscape scale: Tools for the practioner. Presented to the USFW Wildlife Habitat and Plant Management Shortcourse at Utah State University, Logan UT, 5 November.
- Schloeder, C. A., M. J. Jacobs, and J. A. Bissonette. 1998. Variability of soil properties in Omo National Park, Ethiopia. Presented at the Annual Meeting of the Society for Range Management, Guadalajara Mexico, 8-12 February.
- Bissonette, J. A. 1998. Linking ecological processes across spatial scales and hierarchical levels: Do we really understand the effects of land-use changes? VII International Congress of Ecology: 3.1.7 Perspectives in Landscape Ecology, Symposium on Land-use changes in mountain areas. **Florence Italy**, 22 July.
- Hargis, C. D., and J. A. Bissonette. 1998. The influence of forest fragmentation on American marten habitat use. Session 3 Contributed Papers Landscape Wildlife Ecology, Fifth Annual Conf. of The Wildlife Society, Buffalo NY, 22 September.

- McClure, M. F., J. A. Bissonette, and M. R. Conover. 1998. Movements and site fidelity patterns of urban mule deer in Utah. Session 13 Contributed Papers Conservation of Wide-ranging Mammals, Fifth Ann. Conf. of The Wildlife Society, Buffalo NY, 24 September.
- Bjurlin, C. & J. A. Bissonette. 1999. A look at the reproductive ecology of the desert tortoise at the Marine Corps Air Ground Combat Center. 24th Annual Symposium of the Desert Tortoise Council, St. George UT, 5-7 March.
- Bjurlin, C. & J. A. Bissonette 1999. Following the lifecycle of the desert tortoise: Telemetry, radiography, and thread-trailers. 64th North American Wildlife and Natural Resources Conference, San Francisco CA, 31 March.
- McClure, M. F., J. A. Bissonette, and M. R. Conover 1999. Behaviors and population characteristics of mule deer using urban winter ranges: Are urban habitats ecological traps? Presented at the Western Association of Fish and Wildlife Agencies Deer and Elk Workshop, Salt Lake City UT, 4 March.
- Bissonette, J. A. 1999. Do at-grade highway crossing structures reduce big game mortalities? Presented at the Utah Transportation Research Advisory Council Workshop, University of Utah, Salt Lake City UT, 17 March.
- Bissonette J. A. 1999. The mismatch between pattern and process: Lessons from ignoring theory. Presented at the Second International Wildlife Management Congress, Gödöllő Hungary, 29 June.
- Bissonette, J. A. 1999. Habitat pattern and ecological processes: The need for a conceptual foundation. International Association for Landscape Ecology 5th World Congress, Snowmass Village CO, 29 July-3 August.
- McClure, M., J. A. Bissonette, M. Ritchie, and M. Conover. 1999. Fractal analysis of animal movements: A revisited methodology and new insights. International Association for Landscape Ecology 5th World Congress, Snowmass Village CO, 29 July- 3 August.
- Bissonette, J. A. 2000. Dead on the road: Mule deer in a hostile environment. 2000 National Convention Mule Deer Foundation, Salt Lake City UT, 17-18 March.
- Bjurlin, C. D., J. A. Bissonette, and T. L. Cutler. 2000. Desert tortoise survivorship: Absence of evidence does not mean evidence of absence. (Poster - NMFWA Session) 65th North American Wildlife and Natural Resources Conference, Rosemont IL, 29 March.
- Radeloff, V., W. Schroeder, and J. A. Bissonette. 2000. GIS and remote sensing analysis for the Large Herbivore Initiative. Presented in Poland, March.
- E. Zakrajsek, J. A. Bissonette and T. Cutler. 2000. Development of a bird avoidance model for Naval Air Facility, El Centro, CA. Second Joint Annual Meeting of the Bird Strike Committee USA/ Bird Strike Committee Canada, Minneapolis MN, 8-10 August.
- Bjurlin, C. D., and J. A. Bissonette. 2000. Desert tortoise reproduction & survivorship: The influence of female size and abiotic factors on fecundity. Annual Meeting ESA, Snowbird Utah, 6 August.
- Adair, W. A., and J. A. Bissonette. 2000. Forecasting American marten habitat dynamics in western Newfoundland: A matter of finding the right crystal ball. III International Martes Symposium: Martes in Managed Landscapes. Corner Brook, Newfoundland, Canada. 13-16 August.

- Adair, W. A., J. A. Bissonette, and B. Hearn. 2000. American marten den and resting-site characteristics in western Newfoundland. III International Martes Symposium: Martes in Managed Landscapes. Corner Brook, Newfoundland, Canada. 13-16 August.
- Bissonette, J. A., M. E. Lehnert and J. W. Haefner. 2000. Dead on the road: Mitigative models to address deer highway mortality. Symposium: Wildlife and Highways: Seeking solutions to an ecological and socio-economic dilemma. 7th Annual Conference TWS, Nashville TN, 12-16 Sept.
- Bissonette, J. A., M. E. Lehnert, and M. Harrison. 2000. Lanes of destruction: Effectiveness of highway right-of-way escape structures for mule deer. Symposium: Wildlife and Highways: Seeking solutions to an ecological and socio-economic dilemma. 7th Annual Conference TWS, Nashville TN, 12-16 Sept.
- Bissonette, J. A. 2001. Mule deer movement dynamics and roads: A crippled hierarchy. UT Chapter TWS/AFS Ann. Meeting, St. George UT, 21-23 February.
- Curtis Bjurlin, and J. A. Bissonette. 2001. Predation and survival during early life history stages of the desert tortoise in the south-central Mojave Desert. Desert Tortoise Council Annual Symposium, Tucson AZ, March 15-18.
- Adair, W. A., and J. A. Bissonette. 2001. Quantifying the effects of spatial configuration on habitat quality: A case study with the endangered Newfoundland marten (*Martes americana atrata*). Annual Meeting ESA, Madison WI, 9 August.
- Adair, William A., and J. A. Bissonette. 2001. Spatially explicit models and landscape planning: A case study with the endangered Newfoundland marten (*Martes americana atrata*). Presented at: a) International Association for Landscape Ecology, Phoenix AZ, April; b) Third N. A. Forest Ecology Workshop, Duluth MN, June; c) Annual Meeting of The Wildlife Society, Reno NV. September.
- Zakrajsek E. J. & J. A. Bissonette. 2001. Nocturnal bird-avoidance modeling with mobile-marine radar. Bird Strike Committee Conference, Calgary, Alberta 27-30 August.
- Bissonette, J. A. 2001. Scaling roads and wildlife: The Cinderella Principle. 25th International Union of Game Biologists Congress, Lemesos Cyprus, 1-5 September.
- Bjurlin, C. D., and J. A. Bissonette. 2002. Desert tortoise nest site selection and embryogenesis in a changing environment. Wildlife Society Annual Western Section Meeting, Visalia CA. 7-9 March.
- Switalski, A., J. A. Bissonette, T. H. Deluca, C. H. Luce, and M. A. Madej. 2003. Watershed benefits from road removal. 17th Annual Meeting of the Society for Conservation Biology, Duluth Minnesota, 28 June-2 July.
- Switalski, A., J. A. Bissonette, T. H. Deluca, C. H. Luce, and M. A. Madej. 2003. Wildland road removal: Research needs. International Conference on Ecology and Transportation, Lake Placid New York, 24-29 August.
- Bissonette, J. A. 2003. Fragmentation: Spatial arrangement or habitat amount - how can we decide relative importance for wildlife species. 26th International Union of Game Biologists Congress, Braga, Portugal, 1 September.
- Bissonette, J. A. 2003. Importance of distinguishing between spatial arrangement and habitat loss in fragmentation studies of wildlife species. Tenth Annual Conference of the Wildlife Society, Burlington, VT, 8 September.

- Bissonette, J. A. 2003. Understanding fragmentation: Getting to 42. Third International Wildlife Management Congress, Christchurch New Zealand, 3 December.
- Wilson, T. L., E. J. Johnson, and J. A. Bissonette. 2005. Supplementation and sagebrush habitat specialists in patchy mountainous landscapes. Presentation US-IALE, Syracuse N.Y. 2005 meeting, 14 March.
- Kassar, C., and J. A. Bissonette. 2005. Identifying and describing road mortality hotspots: When is it necessary to be spatially explicit? Presentation US-IALE, Syracuse N.Y. 2005 meeting, 14 March.
- Cramer, P.C., and J. A. Bissonette. 2005. Restoring permeability in the roaded landscape: Priorities for research. International Association of Landscape Ecology Annual Symposium. March 2005. Syracuse, NY.
- Cramer, P. C., and J. A. Bissonette. 2005. Wildlife and Roads: the State of the Science and Practice. 2005. Co-Keynote Address presented at the Rockies Wildlife Crossing Field Course, Payson Arizona, 11 April 2005. http://itrc.ncsu.edu/CTE/gateway/rockies_classroom.asp#Cramer
- Bissonette, J. A., P. C. Cramer, N. Newhouse, T. Kinley, K. Knap, B. Persaud, C. Lyon, A. Clevenger, and S. Jacobson. A decision tool for mitigating roads for Wildlife: The NCHRP 25-27 Project. Poster presented at the International Conference on Ecology and Transportation (ICOET), San Diego, 1 September 2005.
- Bissonette, J. A., and P. C. Cramer. 2005. Wildlife and roads: Priorities for research and practice. Abstract submitted to the International Conference on Ecology and Transportation (ICOET), San Diego, 29 August-2 September 2005.
- Cramer, P. C., and J. A. Bissonette. Wildlife crossings in North America: The state of the science and practice. Presented at the International Conference on Ecology and Transportation (ICOET), San Diego, 29 August-2 September 2005. Center for Transportation and the Environment, North Carolina State University, NC. url: http://www.icoet.net/ICOET_2005/proceedings/06IPCh9-442-460.pdf
- Rosa, S. and J. Bissonette. 2005. How to teach a mule deer to safely cross an interstate highway: Preliminary results of a wildlife mortality mitigation strategy on Interstate 15 in Utah, USA. Poster Abstract submitted to the International Conference on Ecology and Transportation (ICOET), San Diego, 29 August-2 September 2005.
- Cramer, P.C., and J. A. Bissonette. 2005. NCHRP 25-27 update: Wildlife crossings in North America. Deer-Vehicle Crash Reductions: Setting a Strategic Agenda Workshop. University of Wisconsin, Madison, Wisconsin, October, 2005.
- Cramer, P. C. and J. A. Bissonette. 2006. NCHRP 25-27 Update: Evaluation of the Use and Effectiveness of Wildlife Crossings in North America. Transportation Research Board Wildlife and Highways Workshop. Washington, D.C. January, 2006.
- Cramer, P. C. and J. A. Bissonette. 2006. Priorities for research related to wildlife and roads. Transportation Research Board Wildlife and Highways Workshop. Washington, D.C. January, 2006.
- Cramer, P. C. and J. A. Bissonette. 2006. Wildlife crossings in North America. Invited Presentation to Transportation Research Board Wildlife and Highways Workshop. Washington, D.C. January, 2006. url: <http://refugedata.fws.gov/trb/2006Workshop/index.html>.

- Cramer, P. and J. A. Bissonette. 2006. Wildlife passages: How does Utah compare to the rest of North America. Presented at the Utah Chapter of the Wildlife Society, Moab Utah, 1-3 March 2006
- Rosa, S., and J. A. Bissonette. 2006. Preliminary Results of a Wildlife Mortality Mitigation Strategy on Interstate 15 in Utah. Presented at the Utah Chapter of the Wildlife Society, Moab Utah, 1-3 March 2006
- Cramer, P. C. and J. A. Bissonette. 2006. Wildlife and roads: The state of the science and practice. Invited presentation to the 2006 MNDOT Environmental Stewardship and Streamlining Workshop. Minneapolis, MN, March 2006.
- Adair, W. A., and J. A. Bissonette. 2006. Modeling spatial constraints limiting resource acquisition: A case study with the Newfoundland marten (*Martes Americana atrata*). 21st Annual Symposium US-IALE, San Diego, CA, 31 March.
- Wilson, T., and J. A. Bissonette. 2006. Moving beyond area-density relationships- a challenge for conservation planning. US-IALE, San Diego, CA, 31 March.
- Grilo, C., M. Cruz, J. A. Bissonette, and M. Santos-reis. 2006. The role of patch size and isolation to carnivore relative abundance in an oak woodland landscape. Presented at the 1st European Congress of Conservation Biology, 22-26 August, Eger, Hungary.
- Santos, M. J., J. M. Matos, J. A. Bissonette, and M. Santos-Reis. 2006. Riparian areas in the fragmented landscape of southern Portugal: Applications for conservation Planning. Presented at the 1st European Congress of Conservation Biology, 22-26 August, Eger, Hungary.
- F. Loureiro, F., J. A. Bissonette, D. W. Macdonald and M. Santos-Reis. 2006. Pulsed resources in a Mediterranean Landscape and their importance to Eurasian badgers conservation . Poster presented at the 1st European Congress of Conservation Biology, 22-26 August, Eger, Hungary.
- Cramer, P. and J. A. Bissonette. 2006. Wildlife crossings and transportation planning in the United States. Invited presentation to the Transportation Conference, U.S. Fish and Wildlife Service, West Virginia. August 2006.
- Cramer, P. C. and J. A. Bissonette. 2006. Transportation Ecology: Current and Future Directions of the Science of Wildlife and Roads. Invited Seminar, College of Natural Resources, Utah State University, Nov. 2006.
- Cramer, P. C., and J. A. Bissonette. 2006. Carnivore crossings and roads in North America: How are we doing? Carnivores 2006, St. Petersburg, Florida, 12-15 November 2006.
- Cramer, P. C., J. A. Bissonette, N. Newhouse, T. Kinley, S. Jacobson, K. Knapp, B. Persaud, C. Lyon and A. Clevenger. 2007. A wildlife crossing decision tool to mitigate transportation corridors for wildlife. Presentation to the Transportation Research Board Annual Meeting, Washington, D.C. January, 2007.
- Cramer, P. C., and J. A. Bissonette. 2007. Overview of NCHRP Project 25-27: Evaluation of the use and effectiveness of wildlife crossings. Invited presentation to the Transportation Research Board Annual Meeting, Washington, D.C. January, 2007.
- Cramer, P. C., and J. A. Bissonette. 2007. Priorities for safely accommodating wildlife movement within transportation systems. Invited presentation to the Transportation Research Board Annual Meeting, Washington, D.C. January, 2007.

- Cramer, P. C., J. A. Bissonette. 2007. The state of the science and practice for mitigating roads for wildlife in North America. Keynote speaker at Caltrans Road Ecology Meeting, University of California, Davis. February 2007.
- Cramer, P. C., J. A. Bissonette. 2007. Wildlife crossings: Current and future directions. Invited speaker at Caltrans Road Ecology Meeting, University of California, Davis. February 2007.
- Cramer, P. C., J. A. Bissonette. 2007. Wildlife crossings and transportation planning in the United States. Invited seminar speaker to Utah State University Department of Landscape Architecture. February, 2007.
- Cramer, P. C., J. A. Bissonette. 2007. Wildlife crossings and transportation planning in the U.S. Invited keynote speaker. Toronto Zoo Roads and Ecopassages Forum, Toronto, Ontario, Canada. March 2007.
- Cramer, P. C., J. A. Bissonette. 2007. The state of the practice of wildlife crossings. Invited keynote speaker. Toronto Zoo Roads and Ecopassages Forum, Toronto, Ontario, Canada. March 2007.
- Bissonette, J. A., and P. C. Cramer. 2007. Mule deer mortalities in SE Idaho. Invited talk presented at the Symposium on Big-Game Highway Mortality, Idaho State University, 24 March 2007.
- Cramer, P. C., and J. A. Bissonette. NCHRP 25-27 Update: Evaluation of the use and effectiveness of Wildlife Crossings in North America. Presented at the AASHTO Standing Committee on Highways Technical Meeting, Phoenix AZ, 4 May 2007
- Grilo, C., C. Silva, C. Baltazar, L. Gomes, J. Bissonette, & M. Santos-Reis. 2007. Patterns of carnivore road casualties in southern Portugal. ICOET meeting, Little Rock, AR, 20-25 May 2007.
- Bissonette, J. A., and P. C. Cramer. 2007. North American Decision Guidelines for mitigating roads for wildlife. ICOET meeting, Little Rock, AR, 20-25 May 2007.
- Cramer, P. C. and J. A. Bissonette. Integrating Wildlife Crossings into Transportation Plans in Projects in North America. ICOET meeting, Little Rock, AR, 20-25 May 2007.
- Rosa, S., and J. A. Bissonette. 2007. Roads and desert small mammal communities: Positive interactions? ICOET meeting, Little Rock, AR, 20-25 May 2007.
- Grilo, C., J. A. Bissonette, and M. Santos-Reis. 2007. Effects of road mortality on mustelids in southern Portugal: Sensitivities and management implications. Presented at the 25th Mustelid Colloquium, Prague Czech Republic, 4-7 October.
- Cramer, P. C., and J. A. Bissonette. 2007. How do we make the roaded landscape more permeable for wildlife? Presented at the Annual Meeting of TWS, Tucson AZ, 23 Sept.
- Grilo, C., M. Cruz, J. A. Bissonette, and M. Santos-Reis. 2008. Sensitivity of carnivores to habitat fragmentation from a multi-scale perspective. Poster presented at the 23rd Annual Landscape Ecology Symposium, Madison Wisconsin, 6-10 April 2008.
- Ascensao, F., C. Grilo, J. A. Bissonette, and M. Santos-Reis. 2008. The role of landscape permeability for stone marten conservation: Patch occupancy and road mortality risk. Presented at the 23rd Annual Landscape Ecology Symposium, Madison Wisconsin, 6-10 April 2008.

PUBLICATIONS

Dissertation

Bissonette, J. A. 1976. Relationship of social organization in collared peccaries to resource

utilization. PhD thesis, Univ. Michigan, Ann Arbor. 134 pp.

Books and Edited Volumes

- Bissonette, J. A., ed. 1982. Deer winter habitat management., University of Maine Agricultural Experiment Station Misc. Pub. 679, Orono Maine, 93pp.
- Bissonette, J. A., and J. W. Ault III. 1985. Big Bend National Park Biosphere Reserve: A history of scientific study. Maine Cooperative Wildlife Research Unit Publ. 949pp.
- Bissonette, J. A., ed. 1986. Is good forestry good wildlife management? University of Maine Agricultural Experiment Station Misc. Publ. 689, Orono ME, 377 pp.
- Bissonette, J. A., and P. R. Krausman, eds. 1995. Integrating People and Wildlife for a Sustainable Future. Allen Press, Lawrence KS. 697pp.
- Bissonette, J. A., ed. 1997. Wildlife and Landscape Ecology: Effects of Pattern and Scale. Springer-Verlag, New York. 410pp.
- Bissonette, J. A., and I. Storch, eds. 2003. Landscape theory and Resource Management: Linking Theory to Management. Island Press, Covelo, CA. 463pp.
- Forman, R. T.T., D. Sperling, J. A. Bissonette, A. P. Clevenger, C. D. Cutshall, V. H. Dale, L. Fahrig, R. France, C. R. Goldman, K. Heanue, J. A. Jones, F. J. Swanson, T. Turrentine, & T. C. Winter. 2003. Road Ecology: Science and Solutions. Island Press, Covelo, CA.
- Bissonette, J. A., and I. Storch, eds. 2007. Temporal dimensions of Landscape Ecology: Wildlife Responses to Variable Resources. Springer-Verlag, New York and Heidelberg.
- Bissonette, J. A. Textbook In Prep. Tentative title: Landscape Ecology for Wildlife Biologists: Concepts underlying effective management.

Monographs or Chapters in Books

- Bissonette, J. A. 1982. Social behavior and ecology of the collared peccary in Big Bend Natl. Park. N.P.S. Sci. Mono. Ser. 16, Washington, DC. 85 pp.
- Bissonette, J. A. 1982. Collared peccary (*Dicotyles tajacu*) (Chapter 42). Pages 841-850. in J. A. Chapman and G. A. Feldhamer, eds. Wild mammals of North America. Johns Hopkins University Press, Baltimore, MD. 1147pp.
- Bissonette, J. A., R. J. Fredrickson, and B. J. Tucker. 1991. American marten: a case for landscape management. Pages 115-134 in J. E. Rodiek and E. G. Bolen. eds. Wildlife and habitats in managed landscapes. Island Press, Washington D.C., 216 pp.
- Bissonette, J. A., and S. Broekhuizen. 1995. Martes populations as indicators of habitat spatial patterns: the need for a multiscale approach. Pages 95-121 in W. Z. Lidicker, Jr., ed., Landscape approaches in mammalian ecology and conservation. Univ. Minnesota Press, Mpls. 215pp.
- Krausman, P. R., R. Valdez, and J. A. Bissonette. 1996. Chapter 15 Bighorn Sheep and Livestock. Pages 237-243 in P. R. Krausman, ed., Rangeland Wildlife. Soc. for Range Manage. Denver, CO.
- Hargis, C. D., J. A. Bissonette, and J. L. David 1997. Understanding measures of landscape pattern. Chapter 9, Pages 231-261 in J. A. Bissonette, ed. Wildlife and landscape ecology: effects of pattern and scale. Springer-Verlag, New York.

- Bissonette, J. A. 1997. Scale-sensitive properties: historical context, current meaning. Chapter 1, Pages 3-31 in J. A. Bissonette, ed. *Wildlife and landscape ecology: effects of pattern and scale*. Springer-Verlag, New York.
- Bissonette, J. A., D. J. Harrison, C. D. Hargis, and T. G. Chapin. 1997. Scale-sensitive properties influence marten demographics. Chapter 15, Page 368-385 in J. A. Bissonette, ed. *Wildlife and landscape ecology: effects of pattern and scale*. Springer-Verlag, New York.
- Bissonette, J. A. 1999. Collared Peccary *Pecari tajacu*. Pp. 325-326, in D.E. Wilson and S. Ruff, eds., *The Smithsonian Book of North American Mammals*. Smithsonian Institution Press, Washington D.C. 733 pp.
- Storch, I. and J. A. Bissonette. 2003 The problem of linking scales in the use of indicator species in conservation biology. Pages 73-92 in Bissonette, J. A. and I Storch, eds., *Landscape Theory and Resource Management: Linking Theory to Practice*. Island Press, Covelo, California.
- Bissonette, J. A. 2003. Linking landscape patterns to biological reality. Pages 15-34 in J. A. Bissonette and I. Storch, eds., *Landscape Theory and Resource Management: Linking Theory to Practice*. Island Press, Covelo, California.
- Hellgren, E. C., and J. A. Bissonette. 2003. Collared peccary. Chapter 41, Pages 867-876 in G. A. Feldhamer and B. Thompson, eds., *Wild mammals of North America: biology, management, and economics*. Second edition. The Johns Hopkins University Press, Baltimore, MD, USA.
- Bissonette, J. A. 2007. Resource acquisition and animal response in dynamic landscapes: Keeping the books. Pages 13-29 in: J. A. Bissonette, and I. Storch, eds. 2007 *Temporal Dimensions of Landscape Ecology: Wildlife Responses to Variable Resources*. Springer-Verlag, New York and Heidelberg.

Proceedings And Symposia

- Lish, J. W., J. W. Ault III, and J. A. Bissonette. 1979. Recent changes in bald eagle wintering patterns in Oklahoma. *Proc. Ann. Meeting Eagle Valley Environ.*, St. Louis, MO.
- Batcheller, G.R., J. A. Bissonette, and M. W. Smith. 1979. The ecology and behavior of blue jays in pecan orchards in central Oklahoma. in M. W. Smith, ed., *Proc. Okla. Pecan Grow. Assoc.* 49:51-54.
- Leppla, R. R., J. A. Bissonette, J.S. Barclay, and M. W. Smith. 1979. Wildlife damage to Okla. pecans. in M. W. Smith, ed. *Proc. Okla. Pecan Grow. Assoc.* 49:47-50.
- Ockenfels, R. A., and J. A. Bissonette. 1982. Estimates of white-tailed deer activity levels in Oklahoma. *Proc. Annual Conf. Southeast. Assoc. Fish and Wildl. Agencies* 36:445-453.
- Ockenfels, R. A., and J. A. Bissonette. 1983. A track plot system to monitor habitat use. *Proc. Annual Conf. Southeast. Assoc. Fish and Wildl. Agencies* 37:173-181.
- Ockenfels, R. A., and J. A. Bissonette. 1984. Temperature-related responses in north-central Oklahoma white-tailed deer. Pages 64-67 in P.R. Krausman and N.S. Smith, eds. *Deer in the Southwest: a workshop*. School of Renewable Nat. Resour., Univ. Arizona, Tucson, AZ.
- Bissonette, J. A. 1985. Life history characteristics and their relationship to peccary population density. Page 54. in R. A. Ockenfels, G. I. Day, and V. C. Supplee, eds., *Proc. of the Peccary Workshop*. Arizona Ch. TWS and Arizona Game and Fish Dept. 82 pp.

- Strong, P. I. V., and J. A. Bissonette. 1988. Territorial activity of common loons on multiple pair lakes. Pages 19-24. *in* P.I.V. Strong, ed., Papers from the 1987 conference on common loon research and management. No. Amer. Loon Fund Misc. Pub., Meredith, NH.
- Strong, P. I. V., and J. A. Bissonette. 1988. Ecological implications of living in desert riparian habitats: Beaver. Contributed Paper of the Second Symposium on Resources of the Chihuahuan Desert Region: U.S. and Mex., No. 17. Chihuahuan Desert Res. Inst., Alpine, TX. 7 pp.
- Adair, W. and J. A. Bissonette. 1993. An energetics-based habitat model for marten in Newfoundland. Proceedings of Technical Workshop for the Integration of Research Projects of the Western Newfoundland Model Forest Management Corporation. pp. 6., 26 May.
- Sturtevant, B. R. and J. A. Bissonette. 1993. Secondary growth forest as potential marten habitat in Newfoundland. Proceedings of Technical Workshop for the Integration of Research Projects of the Western Newfoundland Model Forest Management Corporation. pp. 7., 26 May.
- Bissonette, J. A., and S. S. Sherburne. 1993. Subnivean access: the prey connection. Pages 225-228 *in* I. Thompson, ed., Proc. XXI IUGB Cong., Int. Union Game Biol., Halifax, N. S. (publ. Dec. 1994)
- Bissonette, J. A., S. S. Sherburne, and R. D. Ramsey. 1995. GIS management of telemetry data. Pages 570-573. *in* J. A. Bissonette, & P. R. Krausman, eds., Integrating people and wildlife for a sustainable future. Allen Press, Lawrence, KS. 697pp.
- Bissonette, J. A. and C. D. Hargis. 1995. Linking landscape and smaller scale responses: a multiscale model. Pages 432-435 *in* J. A. Bissonette, & P. R. Krausman, eds., Integrating people and wildlife for a sustainable future. Allen Press, Lawrence KS. 697pp.
- Adair, W. A., and J. A. Bissonette. 1995. Individual-based models as a forest management tool: the Newfoundland marten as a case study. Trans. 60th North American Wildlife & Natural Resources Conference, 60:251-257.
- Bissonette, J. A. 1995. American marten habitat choice: scaled multiple hypotheses provide some answers. Abstract: Page 4 *in* Agenda & abstracts, greater Yellowstone predators: ecology and conservation in a changing landscape. National Park Service, Yellowstone National Park, WY.
- Lehnert, M. E., L. A. Romin, and J. A. Bissonette. 1996. Mule deer-highway mortality in northeastern Utah: causes, patterns, and a new mitigative technique. (9 pages) *in* G. L. Evink, P. Garrett, D. Zeigler, and J. Berry, eds., Trends in Addressing Transportation Related Wildlife Mortality. Proc. Transport. Related Wildlife Mortality Seminar, June 1996, Fla. Dept. Transport. Publ. No. FL-ER-58-96 Tallahassee Fla. (unpaginated).
- McIvor, D. E., J. A. Bissonette, and G. S. Drew. 1996. Assessing subspecies status: a holistic evaluation of the Yuma mountain lion. Pages 62-68 *in* W. D. Padley, ed., Proceedings of the Fifth Mountain Lion Workshop, San Diego CA.
- Hargis, C. D., and J. A. Bissonette. 1997. Effects of forest fragmentation on populations of American marten in the intermountain west. Pages 437-451 *in* G. Proulx, H. N. Bryant, and P. M. Woodard, eds. Martes: taxonomy, ecology, techniques, and management. Provincial Mus. Alberta, Edmonton.

- Sturtevant, B. R., and J. A. Bissonette. 1997. Stand structure on microtine abundance in Newfoundland: implications for marten. Pages 182-198 *in* G. Proulx, H. N. Bryant, and P. M. Woodard, eds. *Martes: taxonomy, ecology, techniques, and management*. Provincial Mus. Alberta, Edmondton.
- Lehnert, M. E., J. A. Bissonette, and J. W. Haefner 1998. Deer (*Cervidae*) highway mortality: using models to tailor mitigative efforts. *Proceedings of the International Union of Game Biologists 23rd Congress: Game Management and Land Use in Open Landscapes*. *Gibier Faune Sauvage, Game Wildl.* Vol 15 (Hors serie Tome 3) 15:835-841.
- Bissonette, J.A., M. E. Lehnert, and J. W. Haefner. 2000. Dead on the road: mitigative models to address deer highway mortality. Abstract P. 52. *in* *Proceedings of the symposium: Wildlife and Highways: Seeking solutions to an ecological and socio-economic dilemma*. 7th Ann. Meeting of the Wildlife Society, Nashville TN.
- Bissonette, J. A., M. E. Lehnert, and M. Harrison. 2000. Lanes of destruction: effectiveness of highway right-of-way escape structures for mule deer. Abstract P. 124. *in* *Proceedings of the symposium: Wildlife and Highways: Seeking solutions to an ecological and socio-economic dilemma*. 7th Ann. Meeting of the Wildlife Society, Nashville TN.
- Bissonette, J. A. 2000. Thinking differently at larger ecological scales: developing the strategy. *Proc. 12th Ann. Meeting Australasian Wildl. Manage. Soc., Darwin, Australia*.
- Zakrajsek, E. J., and J. A. Bissonette. 2001. Nocturnal bird-avoidance modeling with mobil-marine radar. *Bird Strike 2001* 185-194.
- Switalski, T. A., J. A. Bissonette, T. H. DeLuca, C. H. Luce, and M.A. Madej. 2003. Wildland road removal: research needs. Pages 642-646 *in* C. L. Irwin, P. Garrett, and K.P. McDermott, eds., *Proceedings of the International Conference on Ecology and Transportation*, Raleigh, N.C.
- Cramer, P.C., and J. A. Bissonette. 2005. Wildlife crossings in North America: The state of the science and practice. Pages 442-460 *in*: *International Conference On Ecology and transportation 2005 Proceedings*, San Diego, California, U.S.A.
- Bissonette, J. A. 2005. Thinking differently at larger ecological scales: Developing a workable strategy. Pages 66-81 *in* *Proceedings of the 12th Annual Conference of the Australasian Wildlife Management Society, "Old Ways, New Ways; Wildlife Management in Northern Australia"*. ISBN: 0 9757614 71.
- Grilo, C., C. Silva, C. Baltazar, L. Gomes, J. A. Bissonette & M. Santos-Reis 2007. Patterns of carnivore road casualties in southern Portugal. . Page 556-561 *in* *Proceedings of the 2007 International Conference on Ecology and Transportation (ICOET)*, C. L. Irwin, D. Nelson, and K. P. McDermott. Raleigh N.C.: Center for Transportation and the Environment, North Carolina State University, 2007. Little Rock, AR. 21 May 2007.
- Rosa, S., and J. A. Bissonette. 2007. Roads and desert small mammal communities: Positive interaction? Pages 562-566 *in* *Proceedings of the 2007 International Conference on Ecology and Transportation (ICOET)*, C. L. Irwin, D. Nelson, and K. P. McDermott. Raleigh NC.: Center for Transportation and the Environment, North Carolina State University, 2007. Little Rock, AR.
- Bissonette, J. A., and P. C. Cramer. 2007. Abstract: North American Decision Guidelines for mitigating roads for wildlife. Page 422 *in* *Proceedings of the 2007 International Conference on Ecology and Transportation (ICOET)*, C. L. Irwin, D. Nelson, and K. P. McDermott. Raleigh

N.C.: Center for Transportation and the Environment, North Carolina State University, 2007. Little Rock, AR. 21 May 2007.

Cramer, P. C. and J. A. Bissonette. 2007. Integrating Wildlife Crossings into Transportation Plans in Projects in North America. Pages 328-334 *in* Proceedings of the 2007 International Conference on Ecology and Transportation (ICOET), C. L. Irwin, D. Nelson, and K. P. McDermott. Raleigh N.C.: Center for Transportation and the Environment, North Carolina State University, 2007.

Sales-Louis, T., J. A. Bissonette, and M. Santos-Reis. 2008. Importance of pre-classifying river stretches for otter abundance sampling. Tenth International Otter Colloquium Proceedings. <http://www.otterspecialistgroup.org/Bulletin/IUCNOSGBull.html>

Reviews

Bissonette, J. A. 1972. (Review) *Innocent Killers*, Hugo and Jane van Lawick-Goodall. *J. Wildlife Management* 36(4):1375-1376.

Bissonette, J. A. 1979. (Review) *Mountain Monarchs--Wild Sheep and Goats of the Himalaya*, G. B. Schaller (Univ. Chicago Press, Chicago, IL. 1977. 425pp.). *J. Wildlife Management* 43(1):277-278.

Bissonette, J. A. 1986. (Review) *The Peccaries*, L. K. SOWLS. *J. Mammalogy* 67(3):616-617.

Bissonette, J. A. 1994. (Review for U. Texas Press) *The Peccaries* by L. K. SOWLS.

Bissonette, J. A. 2008. Book Review of *Habitat Fragmentation and Landscape Change: An Ecological and Conservation Synthesis* by D. B. Lindenmayer and J. Fischer, 2006. *Ecological Restoration* 26(2):162-164.

Peer Reviewed Journal Articles

Krausman, P. R., and J. A. Bissonette. 1977. Bone chewing behavior of the desert mule deer. *Southwestern Naturalist* 22(1):149-150.

Bissonette, J. A. 1978. The influence of extremes of temperature on activity patterns of peccaries. *Southwestern Naturalist* 23(3):339-346

Batcheller, G., J. A. Bissonette, and M. N. Smith. 1982. Blue jay depredations in Oklahoma pecan orchards. *The Pecan Quarterly* 16(2):19-22.

Batcheller, G., J. A. Bissonette, and M.W. Smith. 1984. Towards reducing pecan losses to blue jays in Oklahoma. *Wildlife Society Bulletin* 12:51-55.

Litvaitis, J. A., J. A. Sherburne, and J. A. Bissonette. 1985. Influence of understory characteristics on snowshoe hare habitat use and density. *J. Wildlife Management* 49(4):866-873.

Litvaitis, J. A., J. A. Sherburne, and J. A. Bissonette. 1985. A comparison of methods used to examine snowshoe hare habitat use. *J. Wildlife Management* 49(3):693-695.

Litvaitis, J. A., J. A. Sherburne, and J. A. Bissonette. 1986. Bobcat habitat use and home range size in relation to prey density. *J. Wildlife Management* 50(1):110-117.

Strong, P. I. V., J. A. Bissonette, and R. Souza 1986. A case of brood mixing by common loons. *Wilson Bulletin* 98:478-479.

- Halpin, M., and J. A. Bissonette. 1986. The history of occurrence of red fox in Maine: Presettlement to 1984. Misc Publ. 683. Univ. Maine Agric. Exp. Sta., Orono. 45 pp.
- Snyder, J. E., and J. A. Bissonette. 1987. Marten use of clearcuts and residual stands in western Newfoundland. *Canadian Journal of Zoology* 65(1):123-127.
- Strong, P. I. V., J. A. Bissonette, and J. S. Fair. 1987. Reuse of nesting and nursery areas by common loons. *J. Wildlife Management* 51(1):123-127.
- Strong, P. I. V., and J. A. Bissonette. 1987. Effects of nest site loss on common loons. *Can. Field-Nat.* 101:581-583.
- Halpin, M., and J. A. Bissonette. 1988. Influence of snow depth on prey availability and habitat use by red fox. *Canadian Journal of Zoology* 66:587-592.
- Bissonette, J. A. 1988. Peer review: some suggestions from other disciplines. *Wildlife Society Bulletin* 16:458-462.
- Tucker, B. J., J. A. Bissonette, and J. F. Brazil. 1988. Deer mouse, *Peromyscus maniculatus*, in insular Newfoundland. *Canadian Field-Naturalist* 102:722-723.
- Harrison, D. J., J. A. Bissonette, and J. A. Sherburne. 1989. Spatial relationships between coyotes and red foxes in eastern Maine. *J. Wildlife Management* 53:181-185.
- Strong, P. I. V., and J. A. Bissonette. 1989. Feeding and chick rearing areas of common loons. *J. Wildlife Management* 53:72-76
- Strong, P. I. V., and J. A. Bissonette. 1989. Common loons, *Gavia immer*, nesting in dead water streams. *Canadian Field-Naturalist* 102:722-723.
- Bissonette, J. A., R. J. Fredrickson, and B. J. Tucker. 1989. American marten: a case for landscape management. *Transactions of the 54th North American Wildlife and Natural Resources Conference* 54:89-101. (also published as a book chapter)
- Sherburne, S. S., and J. A. Bissonette. 1993. Squirrel middens influence marten use of subnivean access points. *American Midland Naturalist* 129:204-207
- Bissonette, J. A. 1993. A simple algorithm to calculate total interaction rate. *Animal Behavior* 46:606-608.
- Sherburne, S. S., and J. A. Bissonette. 1994. Marten subnivean access point use: response to subnivean prey levels. *J. Wildlife Management* 58:400-405.
- Belovsky, G. E., J. A. Bissonette, R. D. Dueser, T. C. Edwards, C. M. Luecke, M. E. Ritchie, J. B. Slade, & F. H. Wagner. 1994. Management of small populations: concepts affecting the recovery of endangered species. *Wildlife Society Bulletin* 22:307-316.
- Bissonette, J. A., S. S. Sherburne, and R. D. Ramsey. 1994. Analyzing telemetry data by a GIS-based vector structure. *International Journal of Geographical Information Systems*. 8(6):533-543.
- Ostrand, W. D., J. A. Bissonette, and M. R. Conover. 1995. Trichomoniasis as a factor in mourning dove population decline in Fillmore, UT. *J. Wildlife Diseases* 31 (1): 87-89.
- McIvor, D. E., J. A. Bissonette, and G. S. Drew. 1995. Reconsidering the Yuma mountain lion: Taxonomic and Conservation Status. *Conservation Biology* 9:1033-1040.
- Romin, L. A., and J. A. Bissonette. 1996. Temporal and spatial distribution of highway mortality of mule deer on newly constructed roads at Jordanelle Reservoir, Utah. *Great Basin Naturalist* 56:1-11.

- Romin, L. A., and J. A. Bissonette. 1996. Deer-vehicle collisions: nationwide status of state monitoring activities and efforts. *Wildlife Society Bulletin* 24(2):276-283.
- Bissonette, J. A. 1996. Linking temporal with spatial scales in wildlife research. *Transactions 61st North American Wildlife and Natural Resources Conference* 61:161-168.
- Ostrand, W. D., J. A. Bissonette, & M. R. Conover. 1996. Selection of foraging habitat by mourning doves: a structural approach. *J. Field Ornithology* 67(4):691-697.
- Sturtevant, B. J., J. A. Bissonette, J. N. Long. 1996. Temporal and spatial dynamics of forest structure in western Newfoundland: silvicultural implications for marten habitat management. *Forest Ecology and Management*. 87:13-25.
- Bissonette, J. A., and M. J. Steinkamp. 1996. Bighorn sheep response to ephemeral habitat fragmentation. *Great Basin Naturalist* 56:319-325.
- Drew, G. S., and J. A. Bissonette. 1997. Winter activity patterns of American marten (*Martes americana*): rejection of the hypothesis of thermal-cost minimization. *Canadian Journal of Zoology* 75:812-816.
- Sturtevant, B. J., J. A. Bissonette, J. N. Long, and D. W. Roberts. 1997. Coarse woody debris as a function of age, stand structure, and disturbance in boreal Newfoundland. *Ecological Applications* 7(2):702-712.
- McClure, M. F., J. A. Bissonette, M. R. Conover, and D. D. Austin. 1997. Range expansion of white-tailed deer (*Odocoileus virginianus*) into urban and agricultural areas of Utah. *Great Basin Naturalist* 57(32):278-280.
- Lehnert, M. E., and J. A. Bissonette. 1997. Effectiveness of highway crosswalk structures at reducing deer-vehicle collisions. *Wildlife Society Bulletin* 25:809-818.
- Sturtevant, B. J., J. A. Bissonette, and J. N. Long. 1998. Stand density management diagram for mixed balsam fir - black spruce stands. *Northern J. Applied Forestry* 15(1):1-6.
- Hargis, C. D., J. A. Bissonette, and J. L. David. 1998. The behavior of landscape metrics commonly used in the study of habitat fragmentation. *Landscape Ecology* 13:167-186
- McIvor, D. and J. A. Bissonette. 1997. Assessing subspecies status: a holistic approach to evaluating the yuma puma. Pages 62-68 *in* W. D. Padley, ed. *Proceedings of the Fifth Mountain Lion Workshop*, 27 Feb. - 1 March 1996. San Diego, CA.
- Ostrand, W. D., J. A. Bissonette, & M. R. Conover. 1998. Changes in land use as a possible factor in mourning dove population decline in Utah. *J. Field Ornithology* 69(2):192-200.
- Stolley, D. S., J. A. Bissonette, J. A. Kadlec, and D. Coster. 1999. Effects of saline drinking water on early gosling development. *Journal of Wildlife Management* 63:990-996.
- Bissonette, J. A. 1999 Small sample size problems in wildlife ecology: a contingent analytical approach. *Wildlife Biology* 5(2):65-71.
- Hargis, C. D., J. A. Bissonette, and D. L. Turner. 1999. The influence of forest fragmentation and landscape pattern on American marten. *J. Applied Ecology* 36:157-172.
- Stolley, D. S., J. A. Bissonette, and J. A. Kadlec. 1999. Limitations on Canada goose production at Fish Springs National Wildlife Refuge *Great Basin Naturalist* 59(3):245-252.
- Stolley, D. S., J. A. Bissonette, and J. A. Kadlec. 1999. Effects of saline environments on the survival of wild goslings (*Branta canadensis*). *American Midland Naturalist* 142:181-190.
- Stolley, D. S., J. A. Bissonette, and J. A. Kadlec. 1999. Evaluation of methods to estimate gosling survival. *J. Field Ornithology* 70(3):374-379.

- Bissonette, J. A., C. S. Loftin, D. M. Leslie Jr., L. A. Nordstrom, and W. J. Fleming. 2000. The cooperative research unit program and wildlife education: historic development, future challenges. *Wildlife Society Bull*: 28:534-541.
- Bissonette, J. A. 2000. Thinking differently at larger scales. Proc. 12th Annual Meeting of the Australasian Wildlife Management Society. 12: (In Press)
- Bissonette, J. A. 1995. (publ. 2/2001) American marten habitat choice: scaled multiple hypotheses provide some answers. Proc. Third Biennial Conf. on the Greater Yellowstone Ecosystem, 24-27 Sept. 1995: 53-56.
- Bissonette, J. A. 2002. Scaling roads and Wildlife: the Cinderella Principle. *Zeitschrift für Jagdwissenschaft* 2000 supplement 48: 208-214.
- Bissonette, J. A. and I. Storch. 2002. Fragmentation: is the message clear. *Conservation Ecology* 6(2): 14. [online] URL: <http://www.consecol.org/vol6/iss2/art14> .
- Bissonette, J. A. 2002. Linking theory, data, and practice in conservation: implications for fragmentation studies. *Revista De Biologia* 20(1-4): 7-16.
- Bissonette, J. and I. Storch. 2003. Understanding Fragmentation: Getting Closer to 42. *Conservation Ecology* 7(2): r5. [online] URL: <http://www.consecol.org/vol7/iss2/resp5>
- Switalski, A., J. A. Bissonette, T. H. Deluca, C. H. Luce, and M. A. Madej. 2004. Benefits and impacts from road removal. *Frontiers in Ecology and the Environment* 2(1):21-28.
- Bjurlin, C. D., and J. A. Bissonette. 2004. Survival during early life stages of the desert tortoise (*Gopherus agassizii*) in the south-central Mojave Desert. *Journal of Herpetology* 38:527-535.
- Zakrajsek, E. J., and J. A. Bissonette. 2005. Ranking the risk of wildlife species hazardous to military aircraft. *Wildlife Society Bulletin*. 33(1):258-264.
- Meyers, P., W. D. Ostrand, M. Conover, and J. A. Bissonette. 2005. Effect of perch sites on mourning dove nest distribution. *Western North American Naturalist* 65(1):64-69.
- McClure, M. F., J. A. Bissonette, and M. R. Conover. 2005. Migratory strategies, fawn recruitment, and winter habitat use by urban and rural mule deer (*Odocoileus hemionus*). 2005. *European Journal of Wildlife Research* 51:170-177. Published Online First 11 May 2005.
- Meyers, P. M., W. D. Ostrand, M. R. Conover, and J. A. Bissonette. 2006. Assessing differences in mourning dove *Zenaida macroura marginella* nesting activity after 40 years. *Wildlife Biology* 12(2):171-178.
- Cramer, P. C., and J. A. Bissonette. 2006. Wildlife crossings in North America: The state of the science and practice. Pp. 442-447; in *Proceedings of the International Conference on Ecology and Transportation*, San Diego, California. Center for Transportation and the Environment, North Carolina State University, NC. http://www.icoet.net/ICOET_2005/proceedings/06IPCh9-442-460.pdf
- Bissonette J. A., and C. Kassar. 2008. Locations of deer-vehicle collisions are unrelated to traffic volume or posted speed limits. *Human Wildlife Conflicts* 2(1):122-130.
- Bissonette, J., C. Kassar, and L. J. Cook. 2008. Assessment of costs associated with deer-vehicle collisions: human death and injury, vehicle damage, and deer loss. *Human Wildlife Conflicts* 2(1):17-27.
- Bissonette, J. A., and W. A. Adair. 2008. Restoring habitat permeability to roaded landscapes with isometrically-scaled wildlife crossings. *Biological Conservation* 141(2):482-488. digital object identifier: <http://dx.doi.org/10.1016/j.biocon.2007.10.019>

- Wilson, T. L., E. J. Johnson, and J. A. Bissonette. 2008. Relative importance of habitat area and isolation for bird occurrence patterns in a naturally patchy landscape. *Landscape Ecology* 11/12/08 accepted- DOI 10.1007/s10980-008-9309-5)
- Grilo, C., J. A. Bissonette, and M. Santos-Reis. 2008. Response of carnivores to existing highway culverts and underpasses: Implications for road planning and mitigation. *Biodiversity and Conservation* 17:1685-1699. On-line: DOI 10.1007/s10531-008-9374-8
- Johnson, J.A., B.A. Andres, and J.A. Bissonette. 2008. Birds of the major mainland rivers of southeast Alaska. *Gen. Tech. Rep. PNW-GTR-739*. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 88 p.
- Leidolf and J. A. Bissonette. 2008. The effects of fire on avian communities: spatio-temporal attributes of the literature 1912-2003. *International Journal of Wildland Fire* (accepted 27 May 2008).
- Loureiro, F., J. A. Bissonette, D. W. Macdonald, and M. Santos-Reis 2009. Temporal variation in availability of Mediterranean food resources: Do badgers track them? Submitted to *Wildlife Biology* 15 September 2008 Accepted 6 October 2008.
- Grilo, C., J. A. Bissonette & M. Santos-Reis 2009. Spatial-temporal patterns in Mediterranean carnivore road casualties: Consequences for mitigation. *Biological Conservation* 142:301-313. (2008)doi:10.1016/j.biocon.2008.10.026.
- Cramer, P. and J. A. Bissonette 2009. Transportation ecology and wildlife passages: The state of the practice and science of making roads better for wildlife. In Press. *Transportation News Special Edition*.
- Gunson, K. E., A. P. Clevenger, A. T. Ford, J. A. Bissonette, and A. Hardy. A comparison of data sets varying in spatial accuracy used to predict the occurrence of wildlife-vehicle collisions. Submitted to *Environmental Management* 5 September, 2008, Accepted 25 Jan 2009
- Bissonette J. A. and S. Rosa, 2009. Road zone effects in small mammal communities. Submitted to *Ecology and Society* 27 May 2008. Accepted 27 January 2009.

Submitted or in Prep/Review

- Johnson, E. J., T. L. Wilson, and J. A. Bissonette. 2008. High-elevation sagebrush meadows: substitute for or supplement to low-elevation sagebrush habitat? In review by *Western North American Naturalist*, Nov. 2008.
- Grilo, C., M. Cruz, J. A. Bissonette, and M. Santos-Reis. 2008. Identifying carnivore sensitivity to fragmented landscapes: A multi-scale approach. For *Landscape and Urban Planning*. Submitted April 4, 2008
- C. Grilo, F. Ascensão, J. A. Bissonette & M. Santos-Reis (in prep) Structural connectivity in Mediterranean agricultural landscapes and its consequences for road mortality risk of stone marten.
- Larsen, R. T., J. A. Bissonette, J. T. Flinders, M. B. Hooten. (Submitted). Summer spatial patterning of chukars in relation to free water in western Utah. *Landscape Ecology* July 2008.
- Larsen, R. T., J. A. Bissonette, J. T. Flinders, and A. C. Robinson. (in USGS review) Does small-perimeter fencing inhibit antelope and mule deer use of free water? Intended for *JWM*.
- Larsen, R. T., J. A. Bissonette, J. T. Flinders, and A. C. Robinson. (in USGS review) Chukar (*Alectoris*

- chukar*) Response to Free Water. Intended for JWM.
- Larsen, R. T., J. A. Bissonette, and J. T. Flinders. (in USGS review) A Conceptual Framework for Understanding Effects of Wildlife Water Developments in the American Southwest. Intended for Ecological Applications.
- Bissonette, J. A., and S. Rosa. (in prep). A mitigation strategy for deer-vehicle collisions in southern Utah: Evaluation of effectiveness. (intended for JWM).
- Bissonette, J. A. 2009. Chapter on cumulative effects intended for P. R. Krausman & L. K. Harris (eds) Cumulative Effects in Wildlife Management, Taylor and Francis Publ.
- Johnson, E. J., T. L. Wilson, and J. A. Bissonette. 2009. Distance effects are apparent in land bird surveys, no matter how many observers are used. In USGS Review, 20 January 2009

Popular Articles

- City deer versus country deer: Impacts of urbanization on mule deer. McClure, M. F., M. R. Conover, and J. A. Bissonette. 1999. *Fair Chase* 14(1):23-27.

Reports

- Bissonette, J. A. 1976. Review of the published literature on the reptiles and amphibians, mammals and birds of the San Simon E.I.S. Area, Eastern Arizona. Report prepared for Bureau of Land Management, Phoenix. 66pp.
- Bissonette, J. A., and O. E. Maughan. 1978. Southeastern Oklahoma coal investigation; endangered species. Proj. No. 14-16-002-77-080. Report prepared for U.S. Fish and Wildlife Service, Albuquerque, NM. 95pp.
- Bissonette, J. A. 1978. Terrestrial Habitat Evaluation Criteria Handbooks: Ecoregion 2533 Bluestem-Grama Prairie, (b) Ecoregion 2521 Mesquite-Buffalo grassland, (c) Ecoregion 3211 Grama-Tobosa grassland, and (d) Ecoregion 3113 Grama-Buffalo grassland.
- Bissonette, J. A. 1981. An integrated approach for controlling blue jay depredation in pecan orchards. USFWS Res. Info. Bull. 81-18. 1 p.
- Strong, P. I. V., and J. A. Bissonette. 1981. Management Report: Beaver-cottonwood interactions in Big Bend National Park, 1980-81. 60pp. Submitted to Res. Manage. Div., BBNP, October.
- Strong, P. I. V., and J. A. Bissonette. 1982. Slide program entitled "Ecology of the Rio Grande Floodplain," including 35mm slides and written commentary prepared for Big Bend National Park, TX.
- Bissonette, J. A., et al. 1982. Cormorant depredations in Maine: A policy report. Prepared for Commissioner, Maine Dept. of Inland Fisheries and Wildlife. 20pp.
- Major, J. T., and J. A. Bissonette. 1983. Northern Maine Survey: Results from the 1983 aerial survey. Unpub. rep., Maine Coop. Fish and Wildl. Res. Unit, Orono. 18pp.
- Litvaitis, J. A., and J. A. Bissonette (eds.). 1984. Proceedings of Eastern Bobcat Symposium, Orono, ME. (unnumbered).
- DiBello, F. J., J. A. Bissonette, and J. Arbuckle. 1984. Maine statewide loon survey-1984. Unpub. rep. Maine Coop. Wildl. Res. Unit and Maine Audubon Soc. 22pp.
- Bissonette, J. A., and J. W. Ault III. 1985. Big Bend National Park biosphere reserve: a history of scientific study. U.S. MAB Rept. No. 10. 3 vol. 949 pp.

- Bissonette, J. A. and J. W. Ault III. 1984. Bibliography, summary, and recommendations for scientific research at Big Bend National Park Biosphere Reserve, Texas. 3 vols., 1199 pp. (to be publ. by NPS).
- Strong, P. I. V., and J. A. Bissonette. 1985. Management considerations for common loons in Maine. Maine Coop. Fish and Wildl. Res. Unit, Orono. 14pp.
- Bissonette, J. A., R. J. Fredrickson, and B. J. Tucker. 1988. The effects of forest harvesting on marten and small mammals in western Newfoundland. Rep. prepared for the Newfoundland and Labrador Wildlife Division and Corner Brook Pulp and Paper Ltd. (Krueger). 100 pp.
- Bissonette, J. A., and B. C. Larsen. 1991. Translocation guidelines for the spotted frog *Rana pretiosa*. Rep. prep. for UT DWR and USFWS. UT CFWRU Misc. Rep. 91(1):1-6.
- Bissonette, J. A., and B. C. Larsen. 1991. Annotated bibliography for the spotted frog (*Rana pretiosa*). UT CFWRU Misc. Rep. 91(2):1-20.
- Richards, R. T., R. S. Krannich, and J. A. Bissonette. 1991. The contemporary animal rights movement: a mail survey of activists. UT CFWRU Misc. Rep. 91(3):1-27.
- Sparrowe, R. D., J. A. Bissonette, W. M. Boyce, K. L. Risenhoover, and P. R. Krausman. 1992. A review of desert bighorn sheep in the San Andres mountains, New Mexico. Wildl. Manage. Institute review team report for New Mexico Game & Fish and USFWS, Reg. 2. 18pp.
- Bissonette, J. A., and S. S. Sherburne. 1993. Martens key in on prey beneath the snow. USFWS Res. Info. Bull. 93-88. 1 page.
- McIvor, D. E., J. A. Bissonette, and G. S. Drew. 1994. A critical review of the status of the Yuma mountain lion, *Felis concolor browni*. Utah Coop. Fish and Wildl. Res. Unit (U. S. Natl. Biol. Survey.) Rep. 94-1. 155 pp.
- Swanor, P. Y., M. Gudorf, S. Chambers, F. J. Singer, J. A. Bissonette, J. Ellenberger, T. L. Johnson, S. Petersburg, R. Schiller, and K. Symonds. 1994. Bighorn sheep habitat assessment of the greater Dinosaur National Monument area. Natl. Park Serv. and Natl. Biol. Survey report. Dinosaur Natl. Monument, Dinosaur, CO 65pp.
- Drew, G. S., and J. A. Bissonette. 1995. Habitat requirements of American marten (*Martes americana*) in Newfoundland: influences of predation risk. Final Rep. to World Wildlife Fund-Canada, Toronto, Ontario, Canada. 87pp.
- Adair, W. A., and J. A. Bissonette. 1995. Habitat suitability index model development. Pages 9-12 in Kathy Knox, ed. Proc. Wildl. Forestry Modeling Workshop, Oct. 24-26. Corner Brook, Nfld. Rep. prepared for Western Newfoundland Model Forest Management Group. Jan. 1995. 69pp. plus 2 appendices.
- Bissonette, J. A., W. D. Ostrand, and M. R. Conover. 1995. Mourning dove population decline in Utah: habitat and disease influences. UDWR Rep., Salt Lake City, UT. (2June) UTFWRU 95-2:1-8.
- Bissonette, J. A., L. J. Christiansen, and N. H. Smith. 1995. Franklin Basin (UT, ID) wolverine survey. UTCFWRU 95-4:1-5.
- Forsey, O., J. A. Bissonette, J. Brazil, K. Curnew, J. Lemon, L. Mayo, I. Thompson, L. Bateman, and L. O'Driscoll. 1995. National recovery plan for the Newfoundland marten. (Canadian) RENEW (Recovery of Nationally Endangered Wildlife) Rept. No. 14. Ottawa, Ontario, Canada. 29pp.
- Hargis, C. D., and J. A. Bissonette. 1995. The effect of forest fragmentation on American marten populations and prey availability. Final rep. to Utah Div. Wildl. Res., Wasatch-Cache Natl. For., Ashley Natl. For., and the Utah Wilderness Assoc. UTCFWRU Sci. Rep. No. 95-5:1-26.

- Bissonette, J. A. 1997. Southeastern Idaho wolverine aerial surveys -- March 1996 (Final Report). UTCFWRU 97-1:1-5.
- Stolley, D. S., J. A. Bissonette, and J. A. Kadlec. 1998. Executive Summary: Limitations on Canada goose production at Fish Springs National Wildlife Refuge, Utah. UTCFWRU 98(1):1-20.
- Bissonette, J. A., and M. W. Wolfe. 1998. Survey of the bats of Blue Lake, Utah. UTCFWRY 98-1:1-12.
- Bissonette, J. A., and M. Hammer. 2000. Effectiveness of earthen return ramps in reducing big game highway mortality in Utah. Project Report No. 1. USGS Utah Cooperative Fish and Wildlife Research Unit, Utah State University, Logan Utah. 2000:1-29.
- Bjurlin, C. D., and J. A. Bissonette. 2001. The impact of predator communities on early life history stage survival of the desert tortoise at the Marine Corps Air Ground Combat Center, Twentynine Palms, California. Project Report No. 2. USGS Utah Cooperative Fish and Wildlife Research Unit, Utah State University, Logan Utah. 2001(2):1-81.
- McClure, M. F., J. A. Bissonette, and M. R. Conover. 2001. Urban deer investigations: ecological research for management solutions. Project Report No. 3. USGS Utah Cooperative Fish and Wildlife Research Unit, Utah State University, Logan Utah. 2001(3):1-23.
- Zakrajsek, E. J., and J. A. Bissonette. 2001. Development of a bird-avoidance model for Naval Air Facility El Centro, California. Project Report No. 5. USGS Utah Cooperative Fish and Wildlife Research Unit, Utah State University, Logan Utah.
- Bunnell, K. D., J. J. Shirley, J. T. Flinders, M. L. Wolfe, and J. A. Bissonette. 2004. Forest carnivores occurrence, distribution and limiting factors: Canada Lynx and wolverine surveys in Utah. Final Report to Utah Division of Wildlife Resources, U. S. Forest Service, and U. S. Fish and Wildlife Service. 113 pp.
- Adair, W. A., and J. A. Bissonette. 2004. Vegetation exclosures: What can they tell us about long-term range trends. Final Report to Utah Division of Wildlife Resources, U.S. Forest Service, and Bureau of Land Management. 176 pages including 4 Appendices and 18 CDs (~7.5 Gb of ~14,000 scanned documents).
- Bissonette, J. A., and P. Cramer. 2005. Evaluation of the use and effectiveness of wildlife crossings. Interim Report prepared for the National Academy of Sciences (Transportation Research Board-National Cooperative Highway Research Program. 50 pages with 10 Appendices.
- Kassar, C., and J. A. Bissonette. 2005. Deer-vehicle crash hotspots in Utah: Data for effective mitigation. UTCFWRU Project Report No. 2005(1):1-128. Utah Cooperative Fish and Wildlife Research Unit, Utah State University, Logan Utah. (URL: www.wildlifeandroads.org/John)
- Cramer, P., S. Rosa, and J. A. Bissonette. 2006. Condition of Highway 91 Wildlife Underpasses, Escape Ramps, and Fencing in Sardine Canyon, Wellsville Mountains, Utah, Winter 2006. Project Report No. 1. USGS Utah Cooperative Fish and Wildlife Research Unit, Utah State University, Logan Utah. 2006(1):1-20.
- Bissonette, J. A., E. Johnson, and T. L. Wilson. 2006. Sagebrush-Dominated Mountain Meadows Bird and Small Mammal Community Dynamics. Project Report No. 4. USGS Utah Cooperative Fish and Wildlife Research Unit, Utah State University, Logan Utah. 2006(4):1-166 (theses numbered independently within report)
- Bissonette, J. A., P. C. Cramer, A. P. Clevenger, K. K. Knapp, B. Persaud, N. Newhouse, T. Kinley, C. Lyon, S. Rosa, E. Shaw Schowalter-Hay, A. Hardy, K. Gunson, J. Anderson, C. O'Brien, K. G. Wolfe, B.

- Jennings, S. Jacobson, I. Brakop. 2006. Evaluation of the use and effectiveness of wildlife crossings. Two Year Interim Report prepared for the National Cooperative Highway Research Program, Transportation Research Board, National Research Council, National Academy of Science. USGS Utah Cooperative Fish and Wildlife Research Unit, Utah State University, Logan, Utah. url: <http://www4.trb.org/trb/crp.nsf/All+Projects/NCHRP+25-27>
- Rosa, S., and J. A. Bissonette. 2007. Evaluation of underpass effectiveness on the Wildcat Highway and Salina Canyon improvement projects: Interstate highways I-15 and I-70, southern Utah. Prepared for the Bureau of Land Management, Utah Department of Transportation, and the Utah Division of Wildlife Resources. 33 pages.
- Bissonette, J. A., 2008. Evaluation of the use and effectiveness of wildlife crossings. NCHRP Report 615, Transportation Research Board, National Research Council, National Academy of Science, 161 pages. URL: http://www.trb.org/news/blurb_detail.asp?id=9369.

OUTSIDE REVIEWER

- (1) Northern Prairie Wildlife Research Center Project No 906. Classification of grassland communities in the Northern Great Plains and assessment of their value as habitats for breeding birds, 28-29 Sept. 1978 at Jamestown, ND, and 3-4 April 1979 at Fort Collins, CO. Review requested by WELUT (OBS) Fort Collins.
- (2) WELUT Project No. 46. Ecological energetics, and relationships in a mixed grass ecosystem (So. Dakota Wildlife Research Unit, Brookings, SD), 23-25 Oct. 1978 at Fort Collins, Co. Review requested by WELUT (OBS), Fort Collins.
- (3) Two week detail, 16-27 April 1979, in Office of Cooperative Research Units, USFWS, Washington, DC. Carried out various duties and assignments related to function of Central Office.
- (4) Wildlife Management Institute Review Team. San Andreas National Wildlife Refuge bighorn sheep management, New Mexico, 24-28 June 1991.
- (5) Tahoe National Forest (California) Review Team. Managing late-seral stage forests, Sacramento California, 16 October 1991.
- (6) U. S. Natl. Park Serv. (Denver, CO). Reviewed Management Plan for reintroduction of bighorn sheep in Dinosaur Natl. Park, UT & CO. 21 April, 1994.
- (7) U. S. Forest Service, Tongass National Forest, Juneau, AK, member of the marten risk assessment team, 1996-1997. (last service: 25-26 March 1997).
- (8) Invited to review proposals from the Sustainable Forest Management Network (Network of Centres of Excellence), Edmonton, Alberta, 18 January 2000.
- (9) Ecosystem Health Panel member, Surface Transportation Environmental Research Advisory Board, Hilton Washington and Tower Hotel, Washington, DC 26 September 2000.

SELECTED COMMITTEES & SERVICE

The Wildlife Society

- Member, Wildlife Publications Award Committee
- Chairman, Resolutions Committee, Maine Chapter
- Member, Leopold Award Committee 1995

Member, Program Committee, Second International Wildlife Management Congress, Budapest Hungary 1999

Chair, TWS Special Awards Committee, 1998-99

Organizer & Chair, Symposium: A primer in Landscape Ecology , Second Annual Meeting of The Wildlife Society, Portland OR, 12-17 September, 1995

Co-Organizer, Symposium: Scaling in Conservation Biology: Is there a mismatch between theory and practice and Co-Chair (with I. Storch) Landscape Linkages Session, 1999 Second International Wildlife Management Congress, Gödöllő, Hungary

Member, Site-Selection Committee, 2003 International Wildlife Management Congress, New Zealand

Member, Planning Committee for the Third International Wildlife Management Congress in Christchurch, New Zealand, 2003-2004.

Member, TWS Support of Symposia and Conferences Committee, 2000-2001.

Member, Operations Review Team, Summer 2004

Member, Honorary Membership and Special Recognition Service Awards Committee, 2007-08.

American Society of Mammalogists

Hosted (With Dr. W. Glanz) 65th Annual Meeting, American Society of Mammalogists, June 1984, University of Maine

Oklahoma Academy of Sciences

Chairman, Wildlife Conservation, 1980

State of Maine

Board of Directors, Nat. Resources Council, (TWS-Maine Chapter Rep.)

Chairman, Cormorant Depredation Policy Committee (by invitation of Commissioner of the Maine Department of Inland Fisheries and Wildlife

Team Leader, Maine Loon Survey, 1982-84

North American Loon Fund

Second Vice President, Board of Directors, Chairman, Grants Committee

University of Michigan

Member, Board of Governors, School of Natural Resources, (1985-1991), Chairman (1989-1991)

Chihuahuan Desert Research Institute

Member, Board of Scientists, 1987-1994

Utah State University

Departmental Graduate Applications Chairman 1986

Member, Committee on research and adjunct faculty appointments 1992

Senator, College of Nat. Resources 1989-1992, Executive Committee, 1990-1992

Member, Scholarships and Awards Committee-1994-96

Member, Organizing Committee, Natural Resources Week 1996 Symposium

Chair, Departmental Admissions Committee, August 2003- present

Member, Community/University Research Initiative (CURI) Grant Central Review Committee, February 2007

Utah

Organizer, Utah Ecosystem Council, Technical Advisory Team, 1994-1996

International Union of Game Biologists

Member, Scientific Committee, 27th IUGB Congress, Hannover Germany 1-6 September 2003.

Member, Scientific Committee, 29th IUGB Congress, Moscow, Russia, 17-20 August 2009

Editorships

Associate Editor, Desert Bighorn Sheep Council Proceedings, 1986-91,

Associate Editor, J. Wildlife Management, 1987-1989

Associate Editor, Western J. Applied Forestry, 1991 - 1998.

Editor, with P. R. Krausman, Proceedings from the first International Wildlife Management Congress held in Costa Rica, 19-25 Sept. 1993.

Member, Editorial Board, European Journal of Wildlife Research, 2003-present

Coordinating Editor, Editorial Board of Landscape Ecology, May 2008-

Other Selected Session Chairmanships

Chair, Oral Session: Predator-Prey Interactions: Theory and Tests. 1995 Ecological Society of America Annual Meeting, 2 August, Park City, UT.

Chair, Oral Session: Landscape Patterns and Structure: animals and insects. 1996 Ecological Society of America Annual Meeting, 13 August, Providence, R. I.

Chair, Oral Session: Landscape Ecology: Animal Distribution Pattern. 1997 Ecological society of America Annual Meeting, 12 August, Albuquerque, N.M.

U.S. International Association for Landscape Ecology

Foreign Scholar Travel Award Committee member, 2000-present

Host, 2009 annual meeting at Snowbird Utah

Reviewer of 8-10 manuscripts per year from various journals including Acta Theriologica, Ambio, American Midland Naturalist, Annales Zoologici Fennici, Australian Mammal Society, Biological Conservation, Bioscience, CSIRO Wildlife Research, Ecological Applications, Ecological Modelling, Ecological Restoration, Ecology and Society, Environmental Management, Global Ecology and Biogeography, J. Mammalogy, J. Ornithology, J. Wildlife Management, Landscape and Urban Planning, Landscape Ecology, Mammalian Biology, National Science Foundation, Science, Wildlife Biology in Practice, European Journal of Wildlife Research, and the National Sciences and Engineering Research Council of Canada.