CURRICULUM VITAE - RICK A. SWEITZER

Department of Biology
University of North Dakota
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EDUCATION

Ph.D. Ecology, Evolution & Conservation Biology, University of Nevada, Reno, December 1995
M.S. Wildlife Ecology, University of Nevada, Reno, December 1990
B.S. Biology & Environmental Science, Northern Arizona University, May 1985

ACADEMIC POSITIONS

Employer	***Title or Rank***	***Period***
University of North Dakota	Associate Professor	August 1998 to present
University of California, Davis	Postgraduate Research/Adj. Research	1994 - 1998
Institute of Arctic Biology, Fairbanks	Research Associate	1996 - 1998
University of Alaska, Fairbanks	Visiting Assistant Professor	1996 - 1997
University of Nevada, Reno	Research & Teaching Assistant	1988 - 1993

CURRENT AND ONGOING RESEARCH

Population biology and effects of mule deer on endemic oak woodlands on Santa Catalina Island, California
Economic and ecological risk assessment of expanding wild pigs
Ecological effects of wild pigs on oak woodland ecosystems
Influence of fire and large mammal herbivory on the population ecology of black-tailed prairie dogs
Predator-prey relations of mountain lions, wild pigs, and deer
Movements and population ecology of Rocky Mountain Elk in western North Dakota
Population ecology of white-tailed deer in the prairie-coteau of North Dakota
Ecological implications and population ecology of bison on Santa Catalina Island, California
Terrestrial vertebrate diversity in mixed- and tallgrass prairies of North Dakota (two different projects)
Population and disease ecology of moose in the northern Great Plains
Carrying capacity of bison, elk, and white-tailed deer at Sullys Hill National Game Preserve
Climate change and land use effects on small mammal communities in the northern Great Plains

My previous research background includes studies of bison (Badlands National Park, South Dakota), bighorn sheep (Grand Canyon National Park, Arizona), peregrine falcons (Grand Canyon National Park, Arizona), bald eagles (central Arizona) and black bears (Sierra Nevada range, Nevada)

PUBLICATIONS

Milne-Laux, S., and R. A. Sweitzer. 2006. Experimentally-induced colony expansion by black-tailed prairie dogs (*Cynomys ludovicianus*) and implications for conservation. Journal of Mammalogy 87:296-303.

Long, E. S., R. A. Sweitzer, D. R. Diefenbach, and M. Ben-David. 2005. Controlling for anthropogenically induced atmospheric variation in stable carbon isotope studies. Oecologia 146:148-156.

Constible, J. M., R. A. Sweitzer, D. H. Van Vuren. P.T. Schuyler, and D.A. Knapp. 2005. Differential dispersal of non-native plants by introduced bison in an island ecosystem. Biological Invasions 7:699-709.

Sweitzer, R.A., J.M. Constible, D.H. Van Vuren, P.T. Schuyler, and F.R. Starkey. 2005. History, habitat use and management of bison on Catalina Island, California. Pp. 231-24 *in* Proceedings of the 6th California Islands Symposium *(peer-reviewed)* (D. K Garcelon and C. A. Schwemm, editors), Ventura, California.

Long, E.S., D. M. Fecske, R. A. Sweitzer, J. A. Jenks, B. M. Pierce, and V. C. Bleich. 2003. Efficacy of photographic scent stations to detect mountain lions. Western North American Naturalist 63(4):529-532.

Sweitzer, R.A.. 2003. Breeding movements and reproductive activities of porcupines in the Great Basin Desert. Western North American Naturalist 63(1): 1-10.

Loggins, R.E., J. T. Wilcox, D. H. Van Vuren, and R.A. Sweitzer. 2002. Seasonal diets of wild pigs in oak woodlands of the central coast region of California. California Fish and Game Quarterly 88(1):28-34.

Sweitzer, R.A., and D. Van Vuren. 2002. Rooting and foraging effects of wild pigs on tree regeneration and acorn survival in California's oak woodland ecosystems. Proceedings of the 5th symposium on oak woodlands: oaks in California's changing landscape (peer-reviewed). General Technical Report PSW-GTR-184. Albany California: Pacific Southwest Research Station, Forest Service, U.S. Department of Agriculture. Pp. 218-231.

Long, E.S., and R.A. Sweitzer. 2001. Museum collection records of mountain lions in California. California Fish and Game Quarterly 87(4):153-167.

Sweitzer, R.A., I.A.Gardner, D. Van Vuren, W.M. Boyce, and J.D. Waithman. 2000. Estimating sizes of wild pig populations in the North and Central Coast regions of California. The Journal of Wildlife Management 64 (2):531-543.

Waithman, J.D., R.A. Sweitzer, A.J. Brinkhaus, I.A. Gardner, D. Van Vuren, and W.M. Boyce. 1999. Range expansion, population sizes, and management of wild pigs in California. Journal of Wildlife Management 63:298-308.

Sweitzer, R.A. 1998. Conservation implications of feral pigs in island and mainland ecosystems and a case study of feral pig expansion in California. Proceedings 18th Vertebrate Pest Conference 18:26-34. (not peer-reviewed).

Sweitzer, R.A., and J. Berger. 1998. Evidence for female-biased dispersal in North American porcupines. Journal of Zoology, London 244:159-166.

Sweitzer, R.A., S.H. Jenkins, and J. Berger. 1997. The near-extinction of porcupines by mountain lions and consequences of ecosystem change in the Great Basin Desert. Conservation Biology 11:1407-1417.

Sweitzer, R.A., B.J. Gonzales, I.A. Gardner, D. Van Vuren, W.M. Boyce, and J.D. Waithman. 1997. A modified panel trap and immobilization technique for capturing multiple wild pigs. 25:699-705.

Sweitzer, R.A., and J. Berger. 1997. Sexual dimorphism & evidence for intrasexual selection from quill-impalements, injuries, & mate guarding associations in porcupines. Canadian Journal Zoology 75:847-854.

Atwill, E.R., R.A. Sweitzer, M.G. Pereira, I.A. Gardner, D. Van Vuren, and W.M. Boyce. 1997 Prevalence of and associated risk factors for shedding *Cryptosporidium parvum* and *Giardia* cysts within feral pig populations in California. Applied and Environmental Microbiology 63:3946-3949.

Sweitzer, R.A., G.S. Ghneim, B.J. Gonzales, I.A. Gardner, D. Van Vuren, and W.M. Boyce. 1997. Immobilization and physiological parameters associated with chemical restraint of wild pigs with Telazol and xylazine hydrochloride. The Journal of Wildlife Diseases 33:198-205.

Sweitzer, R.A., B.J. Gonzales, I.A. Gardner, D. Van Vuren, and W.M. Boyce. 1996. Population densities and disease surveys of wild pigs in the coast mountains of western California. Proceedings of the 17th Vertebrate Pest Conference 17:75-82.

Sweitzer, R.A. 1996. Predation or starvation: Consequences of foraging decisions by porcupines. Journal of Mammalogy 77:1068-1077.

Sweitzer, R.A., and D. Holcombe. 1993. Serum progesterone levels and pregnancy rates in Great Basin porcupines. Journal of Mammalogy 77:769-776.

Sweitzer, R.A., and J. Berger. 1993. Seasonal mass dynamics and body condition in Great Basin porcupines. Journal of Mammalogy 74:198-203.

Sweitzer, R.A., and J. Berger. 1992. Size-related effects of predation on habitat use and behavior in porcupines (*Erethizon dorsatum*). Ecology 73(3):867-875. Effects of Wild Pigs on Seedling Survival in California Oak Woodlands.

MANUSCRIPTS IN REVIEW

Constible, J. M., R.A. Sweitzer, D.H. Van Vuren, and P. T. Schuyler. *In review*. American bison in a mismatched environment: implications for species reintroductions. Biological Conservation.

Milne-Laux, S A. R. A. Sweitzer, and B. Rundquist. *In review*. Habitat suitability modeling as a tool for managing black-tailed prairie dogs (*Cynomys ludovicianus*). Journal of Wildlife Management.

Smith, J. R., R. A. Sweitzer, and W. F. Jenson. *In review*. Population ecology of white-tailed deer in the drift prairie-coteau of north Dakota. Submitted to Journal of Wildlife Management.

Heeg, E. R., D. Updike, R. A. Sweitzer, B. May, and H. B. Ernest . *In review*. Landscape Genetic Structure of Feral Pigs in the Central Coast Region of California. Submitted to Journal of Mammalogy

Manuwal, T., and R. A. Sweitzer. *In review*. Browse Impacts of Introduced Mule Deer to Island Scrub Oak Habitats on Santa Catalina Island. Proceedings of the 6th California oak symposium: today's challenges, tomorrow's opportunities (peer-reviewed). General Technical Report PSW-XXX-XXX. Albany California: Pacific Southwest Research Station, Forest Service, U.S. Department of Agriculture.

Sweitzer, R. A., and D. H. Van Vuren. *In review*. Proceedings of the 6th California oak symposium: today's challenges, tomorrow's opportunities (peer-reviewed). General Technical Report PSW-XXX-XXX. Albany California: Pacific Southwest Research Station, Forest Service, U.S. Department of Agriculture.

Murphy, R. K., J. D. Alberson, and R. A. Sweitzer. *In review*. Occurences of small mammal species in a mixed-grass prairie in northwestern North Dakota. Submitted to Prairie Naturalist

MANUSCRIPTS IN PREP

Grinde, A. R., and R. A. Sweitzer. *In prep.* Are wild pigs ecologically equivalent to the extinct California grizzly? Intended Ecology.

Sweitzer, R. A., and D. H. Van Vuren. *In prep*. Experimental test of the impacts of nonnative wild pigs on small mammals in California oak woodlands. Intended Conservation Biology

Sweitzer, R.A., E.S. Long, H.B. Ernest, B.M. Pierce, V.C. Bleich, and M. Ben-David. *In prep*. Influence of geographic and temporal variation in prey availability on the diet of an apex predator. Oecologia

Maskey, J. J., and R. A. Sweitzer. *In prep*. Increased transmission of meningeal worm (*Parelaphostrongylus tenuis*) in a confined ungulate population. Intended Journal of Wildlife Diseases.

Sweitzer, R. A., J. M. Constible, and Dirk Van Vuren. *In prep.* Population ecology, ecological effects, and carrying capacity of introduced bison on Santa Catalina Island, California, USA. Intended Journal of Wildlife Management

Kadrmas, N, J., and R. A. Sweitzer. *In prep.* Small mammal community dynamics and microhabitat affinities in aspen parklands at J. Clark Salyer National Wildlife Refuge. Intended Journal of Mammalogy

MAJOR RESEARCH REPORTS

Sweitzer, R. A. 2003. Wild pig management plan for Pacheco State Park, California. Contract report submitted to Four Rivers District California Department of Parks and Recreation. Gustine, California. 50 pp.

Sweitzer, R. A., J. M. Constible, and D. H. Van Vuren. 2003 (January). Population ecology and ecological effects of bison on Santa Catalina Island, California. Final Report submitted to the Department of Ecological Restoration, Santa Catalina Conservancy, Avalon, California. 113 pp.

Sweitzer, R. A., and D.H. Van Vuren. 2001 (March). Effects of wild pigs on oak woodland ecosystems in the north and central coast regions of California. Final Report submitted to Wildlife Management Division, California Department of Fish and Game, Sacramento, California. 120 pp.

Sweitzer, R. A., and R. E. Loggins. 2001 (August). Wild pig management plan for Henry W. Coe State Park, California. Contracted report submitted to Four Rivers District California Department of Parks and Recreation, Morgan Hill, California. 45 pp.

Sweitzer, R. A. 2001. Small mammals of Lostwood, Des Lacs, and J. Clark Salyer National Wildlife Refuges, North Dakota. Final Report submitted to U.S. Fish and Wildlife Service. Documents and tables 144 pp.

OTHER RESEARCH REPORTS

Sweitzer, R. A. 2003 (January, addendum in February). Terrestrial Vertebrate Communities of the Sheyenne National Grasslands. Annual Report submitted to Dakota Prairie Grasslands (USDA Forest Service), Bismarck, North Dakota. 34 pp.

Sweitzer, R. A. 2002 (January). Terrestrial Vertebrate Communities of the Sheyenne National Grasslands, North Dakota. Annual Report submitted to Dakota Prairie Grasslands (USDA Forest Service), Bismarck, North Dakota. 28 pp.

Sweitzer, R. A. 2001. Analysis of predator control programs at Kelly's Slough and Lake Alice National Wildlife Refuges. Final Report submitted to U. S. Fish and Wildlife Service 17 pp.

Sweitzer, R. A., and J. Smith. 2002 (October). Population Ecology of white-tailed deer at Lonetree Wildlife Management Area, North Dakota. Annual Report submitted to USDI Bureau of Reclamation, Bismarck, North Dakota. 13 pp.

EXTERNAL GRANTS

North Dakota Department of Game and Fish (*small vertebrates*) $103,717 (2005-07)
Exotic/Invasive Pests and Diseases-UC Integrated Pest Management *(wild pigs*) $138,440 (2004-07)
Santa Catalina Island Conservancy (*mule deer*) $106,807 (2004-07)
U.S.D.I Bureau of Reclamation (*moose*) $81,755 (2004-2006)
U.S. Fish & Wildlife Service, Sully's Hill National Wildlife Preserve (*large ungulates – bison, white-tailed deer, elk*): $9,970 (2002-03), $24,000 (2003-05)
National Park Service, Pinnacles National Monument, California (*wild pigs*): $71,143 (2002-2005)
U.S. Fish & Wildlife Service, J. Clark Salyer, DesLacs, Lostwood NWR (*small mammals*): $18,349 (2002-05)
Integrated Hardwood & Range Management Program, U.C. Berkeley (*wild pigs*): $90,000 (2000-2005)
National Park Service, Theodore Roosevelt National Park (*prairie dogs*): $22,000 (2001-2004)
U.S.D.A.: Dakota Prairie Grasslands-Forest Service (*terrestrial vertebrates, prairie dogs*): $46,400 (2001-05)
U.S.D.I.: Bureau of Reclamation (*white-tailed deer*): $109,000 (2000-2004)
Santa Catalina Island Conservancy (*bison*): $80,190 (2000-2003)
Rocky Mountain Elk Foundation: $7,000 (2001-2002), $5,750 (2000-2001)
National Park Service, Theodore Roosevelt National Park (*elk*): $27,000 (2000-2002)
U.S.Fish & Wildlife Service: Lake Alice & Kelly's Slough National Wildlife Refuges (*small carnivores*): $2,700 (2001-2002)
U.S. Geological Survey, Biological Resources Division (*elk, Co-PI with Glen Sargeant*): $68,000 (2000-2002)
U.S.Fish & Wildlife Service: Lostwood National Wildlife Refuge (*small mammals*): $4,000 (2000-2001)
California Department of Fish & Game (*wild pigs*): $192,193 (1998-2000)
National Geographic Society (*wild pigs, mountain lions*): $19,458 (1998-1999)
University of California Agriculture & Natural Resources Grant Program (*wild pigs*): $16,000 (1996-1997)
U.S.D.A., APHIS - Veterinary Services (*wild pigs*): $39,000 (1995)

PROFESSIONAL PAPER PRESENTATIONS

2007 Santa Catalina Island Oak Workshop Meeting (February 2007 (*invited paper)*
Annual Conference Western Section The Wildlife Society, Monterey, California, January 2007 *(invited paper)*
6th Symposium on California's Oak Woodlands, Rohnert Park, California, October 2006 (*2 abstracts, 2 peer-reviewed papers*)
5th Exotic/Invasive Pests and Diseases Research Program, Riverside, CA, October 2006
13th Annual Conference of The Wildlife Society, Anchorage, Alaska, September 2006 (*4 abstracts*)
86th American Society of Mammalogists conference, Amherst, Massachusetts, June 2006 (*1 abstract*)

Santa Catalina Island Conservancy Board of Directors Research Workshop, Long Beach, California, June 2005
Integrated Hardwood Management Oak Woodland Conservation Annual Meeting, San Luis Obispo, California, May 2006 (*invited dinner seminar*)
1st National Wild Pig Conference, Mobile, Alabama, May 2006 (*1 abstract*)
67th Midwest Fish and Wildlife Conference, Grand Rapids, Michigan, December 2005 (*1 abstract*)
4th Exotic/Invasive Pests and Diseases Research Program, Davis, CA, October 2005
12th Annual Conference of The Wildlife Society, Madison, Wisconsin, September 2005 (*1 abstract*)
85th American Society of Mammalogists conference, Springfield, Missouri, June 2005 (2 *abstracts*)
89th Meeting Ecological Society of America, Portland, Oregon, August 2004 (*3 abstracts, 2 invited*)
84th American Society of Mammalogists conference, Arcata, California, June 2004 (*3 abstracts*)
Symposium on Biology, Management & Control of Wild Pigs, Augusta, Georgia April 2004 (*2 invited papers*)
6th California Islands Symposium, Ventura, California, December 2003 (*Abstract, reviewed paper*)
17th Annual Meeting of Society for Conservation Biology, Duluth, Minnesota, June 2003 (*3 abstracts*)
9th Annual Conference of The Wildlife Society, Bismarck, North Dakota, September 2002 (*3 abstracts*)
5th Symposium on California's Oak Woodlands, San Diego, California-October 2001(*Abstract, reviewed paper*)
8th Annual Conference of The Wildlife Society, Reno, Nevada, September 2001 (*3 abstracts*)
82nd Annual Meeting American Society of Mammalogists, Missoula, Montana, June 2001 (*2 abstracts*)
Western Section The Wildlife Society, Sacramento, California, February 2001 (*2 abstracts*)
62nd Midwest Fish and Wildlife Conference, Minneapolis, Minnesota, December 2000 (*Abstract)*
80th American Society of Mammalogists conference, Seattle, Washington, June 1999 (*Abstract*)
18th Vertebrate Pest Conference, Costa Mesa, California, March 1998 (*Abstract, non peer-reviewed paper*)
82nd Ecological Society of America, Albuquerque, New Mexico, August 1997 (*Abstract*)
77th American Society of Mammalogists conference, Stillwater, Oklahoma, June 1997 (*Abstract*)
17th Vertebrate Pest Conference, Rohnert Park, California, March 1996 (*Abstract, non peer-reviewed paper*)
75th American Society of Mammalogists conference, Washington, D.C., June 1994 (*Abstract*)
74th American Society of Mammalogists conference, Bellingham, Washington, June 1993 (*Abstract*)
73rd American Society of Mammalogists conference, Provo, Utah, June 1993 (*Abstract*)
76th Ecological Society of America, San Antonio, Texas, August 1991 (*Abstract*)
72th American Society of Mammalogists conference, Manhattan, Kansas, June 1991 (*Abstract*)
71st American Society of Mammalogists conference, Frostburg, Maryland, June 1990 (*Abstract*)

RECENT EXTERNAL SEMINAR PRESENTATIONS

Natural Resources Institute, University of Manitoba, March 2006
Department of Natural Resource Ecology & Management, Iowa State University, November 2005
Department of Biology, University of Manitoba, Winnipeg, Manitoba, February 2005
Department of Biology and Wildlife, University of Alaska, Fairbanks, November 2004
Department of Biology, University of South Dakota, Vermillion, South Dakota, Fall 2000
Zoology Department, North Dakota State University, Fargo, North Dakota, Fall 2000

COURSES AND TEACHING

At current institution:

Mammalogy
Large Mammal Ecology, Management, & Conservation (senior level/grad)
Conservation Biology (senior level/grad)
Natural Resource Policy (grad)
Graduate Seminars in: Ecology, Conservation Biology, Ecosystem Management, Ecology of Climate Change
General Biology

Other universities:

Physiological Ecology of Wildlife (University of California, Davis)
Wildlife Ecology (University of California, Davis)
Population Ecology (University of Alaska, Fairbanks)

Principles of Wildlife Management (University of Alaska, Fairbanks)
Wildlife Management Techniques (University of Alaska, Fairbanks)

EDITORIAL SERVICE

Associate Editor, American Society of Mammalogists – Journal of Mammalogy (2006-2008). Recent reviewer for Oecologia, Quarterly Review of Biology, Ecography, Journal of Wildlife Management, Conservation Biology, Ecology, Journal of Mammalogy, American Midland Naturalist, California Fish and Game Quarterly, Environmental Management, Wildlife Research

GRADUATE STUDENTS

Eric Long, MS *(December 2002)*
Allison Poff, MS *(May 2003)*
Sara Milne, MS (*May 2004*)
Jason Smith, MS (May 2005)
Neil Kadrmas, MS (August *2005*)
Alexis Grinde, MS (projected December 2006)
Ron Loggins, PhD (Projected May 2007)
Sean Bertie, MS (projected May 2007)
Jim Maskey, PhD (projected December 2007)
Thad Manuwal, MS (projected May 2007)
John Leonhart, PhD (projected December 2007)

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

I am a member of the Ecological Society of America, the American Society of Mammalogists, the Society of Conservation Biology, The Wildlife Society, American Association for Advancement of Science, Wildlife Disease Association.

University of North Dakota Representative of The Great Plains Cooperative Ecosystem Studies Unit
2002 Program Committee and Chair of the Subcommittee on Posters for The Wildlife Society

ACADEMIC HONORS AND ACTIVITIES

American Society of Mammalogists Award for outstanding student paper - 1994
Received awards in Graduate Student Paper Competitions, University of Nevada, 1990 & 1991
President Ecology, Evolution, Conservation Biology Ph.D. Students, University Nevada - 1990-91
Great Plains Cooperative Ecosystem Studies Unit University Representative