

VITAE: RAYMOND D. DUESER

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EDUCATION

Undergraduate: B.A. (Anthropology, 1967), The University of Texas at Austin
Graduate: M.A. (Zoology, 1970), The University of Texas at Austin
Ph.D. (Wildlife Ecology, 1975), University of Michigan

PROFESSIONAL EXPERIENCE

- 2015 - Visiting Scholar, Department of Environmental Sciences, University of Virginia
- 2009 - Professor Emeritus, Department of Wildland Resources, Utah State University
- 2003 - 2009 Professor of Wildlife Ecology, Department of Wildland Resources, Utah State University
- 1999 - 2003 Professor and Associate Dean, College of Natural Resources, Utah State University
- 1996 - 1998 Professor and Director, Watershed Science Program, Utah State University
- 1990 - 1999 Professor and Department Head, Department of Fisheries and Wildlife, Utah State University
- 1986 - 1990 Principal Investigator, Virginia Coast Reserve Long-Term Ecological Research Program, University of Virginia
- 1974 - 1990 Assistant Professor, Associate Professor, Department of Environmental Sciences, University of Virginia

MEMBERSHIPS

American Association for the Advancement of Science
Ecological Society of America
The Wildlife Society

SCHOLARSHIPS

Undergraduate Academic Scholarship, The University of Texas at Austin (1963 - 1967)
NDEA Title IV Fellowship (Zoology), The University of Texas at Austin (1967 - 1970)
NSF Summer Research Fellowship (Zoology), The University of Texas at Austin (1969)
NIH Pre-Doctoral Fellowship in Biomedical Science (Wildlife Management), University
of Michigan (1970 - 1972)
Institute for Environmental Quality Fellowship, University of Michigan (1972 - 1974)

RECENT HONORS

President's Stewardship Award, The Nature Conservancy
Elected Research Associate, Virginia Museum of Natural History
U. S. Fish and Wildlife Service "Recovery Champion" for work with the recently-delisted
Delmarva Fox Squirrel
Henry S. Mosby Award of the Virginia Chapter of The Wildlife Society, for contributions
to Wildlife Science

SERVICE

Community: Board of Directors, Ivy Creek Natural Area (1986 – 1990)
Cooperative Extension Outreach Programming (1990 – 2003)
National: Member, LTER Coordinating Committee (1987 – 1990)
Delmarva Fox Squirrel Recovery Team (Leader 1988 – 1991, Member 2000 – 2017)
Chair, Research Committee, National Association of University Fish and Wildlife
Programs (1991 – 1994)
Member: Nominations Committee, Ecological Society of America (1988)
Member, Research Committee, The Wildlife Society (1992 – 1998)
Member, Western Regional Aquaculture Council (1994 – 2002)
Chair, Western Chapter, Ecological Society of America (1998 – 2002)
Chair, Section on Fish and Wildlife, National Association of State Universities and Land
Grant Colleges (2001 – 2002)
Instructor, Eastern Shore of Virginia Master Naturalist Program (2011 – 2017)
Chair-elect, Wildlife and Habitat Restoration Working Group, The Wildlife Society (2018)
Advisory: U.S.D.I. Bureau of Land Management, U.S. National Park Service, The
Nature Conservancy, U.S.D.I. Fish and Wildlife Service, U.S.D.I. U.S. Geological
Survey (Cooperative Research), Virginia Department of Game and Inland Fisheries,
Virginia State Department of Health, Virginia Coastal Resources Management Program,
U.S.D.A. Animal and Plant Health Inspection Service, U.S.D.A. Forest Service
U.S.D.A. Competitive Grants, Utah Division of Wildlife Resources, Wistar Institute of
Philadelphia, Maryland Forest, Park and Wildlife Service, National Science Foundation
(DEB)

TEACHING

Undergraduate: Inventory and Monitoring in Natural Resources Management

Conservation Ecology
Fundamentals of Ecology (with laboratory)

TEACHING (continued)

Undergraduate: Inventory and Monitoring in Natural Resources Management
Conservation Ecology
Fundamentals of Ecology (with laboratory)
Population Ecology (with laboratory)
Fisheries and Wildlife Orientation
Case Studies in Fisheries and Wildlife
Terrestrial Ecology Laboratory
Principles of Wildlife Management
Natural Resources and Environmental Management
Graduate: Terrestrial Ecology (with laboratory)
Conservation Ecology
Community Ecology
Analysis of Model Ecosystems
Theoretical Ecology
Advanced Quantitative Methods

PUBLICATIONS AND REPORTS

1) Refereed Journal Articles

Dueser, R.D. and H.H. Shugart, Jr. 1978. Microhabitats in a forest-floor small mammal fauna. *Ecology* 59:89-98.

PUBLICATIONS AND REPORTS (continued)

Dueser, R.D., W.C. Brown, G.S. Hogue, C. McCaffrey, S.A. McCuskey and G.J. Hennessey. 1979. Mammals on the Virginia barrier islands. *Journal of Mammalogy* 60:425-429.

Dueser, R.D. and H.H. Shugart, Jr. 1979. Niche pattern in a forest-floor small mammal fauna. *Ecology* 60:108-118.

Leavitt, S.W., R.D. Dueser and H.G. Goodell. 1979. Plant regulation of nonessential metals relative to chemically similar micronutrients. *Journal of Applied Ecology* 16:203-212.

Dueser, R.D. and W.C. Brown. 1980. Ecological correlates of insular rodent diversity. *Ecology* 61:50-56.

Dueser, R.D. and J.G. Hallett. 1980. Competition and habitat selection in a forest-floor small mammal fauna. *Oikos* 35:293-297.

PUBLICATIONS AND REPORTS (continued)

Rose, R.K. and R.D. Dueser. 1980. Lifespan of Virginia meadow voles. *Journal of Mammalogy* 61:760-763.

Dueser, R.D., M.L. Wilson and R.K. Rose. 1981. Attributes of dispersing meadow voles in open-grid populations. *Acta Theriologica* 26:139-162.

Porter, J.H. and R.D. Dueser. 1982. Niche overlap and competition in an insular small mammal fauna: a test of the niche overlap hypothesis. *Oikos* 39:228-236.

Dueser, R.D. and H.H. Shugart, Jr. 1982. Reply to comments by Van Horne and Ford and by Carnes and Slade. *Ecology* 63:1174-1175.

Wolff, J.O., M.H. Freeberg and R.D. Dueser. 1983. Interspecific territoriality in two sympatric species of *Peromyscus* (Rodentia: Cricetidae). *Behavioral Ecology and Sociobiology* 12:237-242.

Dueser, R.D., R.K. Rose and J.H. Porter. 1984. A body-weight criterion to identify dispersing small mammals. *Journal of Mammalogy* 65:727-729.

Wolff, J.O., R.D. Dueser and K.S. Berry. 1985. Food habits of sympatric *Peromyscus leucopus* and *Peromyscus maniculatus*. *Journal of Mammalogy* 66:795-798.

Porter, J.H. and R.D. Dueser. 1986. A test for suppression of body growth and sexual maturity in small male meadow voles (*Microtus pennsylvanicus*) in field enclosures. *American Midland Naturalist* 115:181-190.

Dueser, R.D. and J.H. Porter. 1986. Habitat use by insular small mammals: relative effects of competition and habitat selection. *Ecology* 67:195-201.

Wolff, J.O. and R.D. Dueser. 1986. Noncompetitive coexistence between *Peromyscus* species and *Clethrionomys gapperi*. *Canadian Field Naturalist* 100:186-191.

Harney, B.A. and R.D. Dueser. 1987. Vertical stratification of activity of two *Peromyscus* species: an experimental analysis. *Ecology* 68:1084-1091.

Porter, J.H. and R.D. Dueser. 1989. A comparison of methods for measuring small mammal dispersal by use of a Monte-Carlo simulation model. *Journal of Mammalogy* 70:783-793.

Harrison, E.A., B.M. McIntyre and R.D. Dueser. 1989. Community dynamics and topographic controls on forest pattern in Shenandoah National Park, Virginia. *Bulletin of the Torrey Botanical Club* 116:1-14.

PUBLICATIONS AND REPORTS (continued)

- Dooley, J.L., Jr., and R.D. Dueser. 1990. Nest site selection by sympatric *Peromyscus* species. *Ecology* 71:788-796.
- Porter, J.H. and R.D. Dueser. 1990. Selecting a body-mass criterion for measuring dispersal. *Journal of Mammalogy* 71:470-473.
- Dueser, R.D. 1990. Biota of the Virginia barrier islands. *Virginia Journal of Science* 41:257-258.
- McCaffrey, C.A. and R.D. Dueser. 1990. Preliminary vascular floras for the Virginia barrier islands. *Virginia Journal of Science* 41:259-281.
- McCaffrey, C.A. and R.D. Dueser. 1990. Plant associations on the Virginia barrier islands. *Virginia Journal of Science* 41:282-299.
- Hayden, B.P., R.D. Dueser, J.T. Callahan and H.H. Shugart. 1991. Long-Term Research at the Virginia Coast Reserve. *BioScience* 41:310-318.
- Scott, D.E. and R.D. Dueser. 1992. Habitat use by insular populations of *Mus* and *Peromyscus*: What is the role of competition? *Journal of Animal Ecology* 61:329-338.
- Forys E.A. and R.D. Dueser. 1993. Inter-island movements of rice rats (*Oryzomys palustris*). *American Midland Naturalist* 130:408-412.
- Halama, K.J. and R.D. Dueser. 1994. Of mice and habitats: tests for density Dependent habitat selection. *Oikos* 69:107-114.
- Belovsky, G.E., J.A. Bissonette, R.D. Dueser, T.C. Edwards, C.M. Luecke, M.E. Ritchie, J.B. Slade, and F.H. Wagner. 1994. Management of small populations: concepts affecting the recovery of endangered species. *Wildlife Society Bulletin* 22:307-316.
- Dooley, J.L., Jr., and R.D. Dueser. 1996. Experimental tests of nest-site competition between two *Peromyscus* species. *Oecologia* 105:81-86.
- Lancia, R.A., C.E. Braun, M.W. Collopy, R.D. Dueser, J.G. Kie, C.J. Martinka, J.D. Nichols, T.W. Nudds, W.R. Porath and N.G. Tilghman. 1996. ARM! for the future: Adaptive resource management in the wildlife profession. *Wildlife Society Bulletin* 24:436-442.
- Moncrief, N.D., N.E. Cockett, A.D. Neff, W.L. Thomas and R.D. Dueser. 1997. Polymorphic microsatellites in the meadow vole, *Microtus pennsylvanicus*: conservation of loci across species. *Journal of Molecular Ecology* 6:299-301.

PUBLICATIONS AND REPORTS (continued)

- Loxterman, J.L., N.D. Moncrief, R.D. Dueser, C.R. Carlson and J.F. Pagels. 1998. Dispersal abilities and genetic population structure of insular and mainland *Oryzomys palustris* and *Peromyscus leucopus*. *Journal of Mammalogy* 79: 66-77.
- Moncrief, N.D. and R.D. Dueser. 2001. Allozymic variation in the endangered Delmarva fox squirrel (*Sciurus niger cinereus*): Genetics of a translocated population. *American Midland Naturalist*. 146:37-42.
- Moncrief, N.D., N.E. Cockett, W.L. Thomas and R.D. Dueser. In press. Microsatellite markers distinguish between the Delmarva fox squirrel (*Sciurus niger cinereus*) and the grey squirrel (*Sciurus carolinensis*). *Journal of Wildlife Management*.
- Jiménez, J.E., M.R. Conover, R.D. Dueser and T.A. Messmer. 2007. Influence of habitat patch characteristics on the success of upland duck nests. *Human-Wildlife Conflicts* 1:244-256.
- Moncrief, N. D., R. A. Van den Bussche, R. D. Dueser, D. Loftis, N. E. Cockett and M. Culver. 2008. Diagnostic genetic marker that differentiates eastern fox squirrels from eastern gray squirrels. *Journal of Wildlife Management* 72:320-323.
- Martin, J. D., R. D. Dueser and N. D. Moncrief. 2010. Method for casting large numbers of clay eggs for use in studies of artificial nests. *Southwestern Naturalist* 55:595-600.
- Dueser, R. D., N. D. Moncrief, O. Keiss, J. D. Martin, J. H. Porter and B. R. Truitt. 2013. Overwater movement of raccoons (*Procyon lotor*) in a naturally fragmented coastal landscape. *Northeastern Naturalist* 20:511-528.
- Porter, J. H., R. D. Dueser and N. D. Moncrief. 2015. Cost-distance analysis of mesopredators as a tool for avian habitat restoration on a naturally fragmented landscape. *Journal of Wildlife Management* 79:229-234.
- Moncrief, N. D., J. H. Roberts, E. H. Hallerman, R. A. Van Den Bussche, J. H. Porter and R. D. Dueser. 2017. Landscape genetics of a raccoon (*Procyon lotor*) metapopulation in an undeveloped coastal island system. *Journal of Mammalogy* 98:1137-1155.
- Dueser, R. D., J. D. Martin and N. D. Moncrief. 2018. Pen trial of estrogen-induced conditioned food aversion to eggs in raccoons (*Procyon lotor*). *Applied Animal Behaviour Science* 201:93-101.

PUBLICATIONS AND REPORTS (continued)

Dueser, R. D., J. D. Martin and N. D. Moncrief. *In review*. Successes and limitations of estrogen-induced conditioned food aversion to eggs in free-ranging raccoons (*Procyon lotor*). Ecological Applications.

Dueser, R.D., J.D. Martin and N.D. Moncrief. *In preparation*. A critical review of the use of conditioned aversion as a tool for reducing the impact of mammalian predators on threatened and endangered ground-nesting species. Mammalian Biology.

2) Symposium Volumes (Invited)

Shugart, H.H., Jr., R.D. Dueser and S.H. Anderson. 1974. Influence of habitat alteration on wildlife populations. In: Symposium on Timber-Wildlife Management -- A Common Opportunity. Missouri Academy of Sciences Occasional Paper 3:92-96.

Dueser, R.D., H.H. Shugart, Jr., and E.F. Connor. 1986. The dynamic landscape approach to habitat management: 106-113. In: D.L. Kulhavy and R.N. Conner (eds.). Wilderness and Natural Areas in the Eastern United States. A Management Challenge.

Dueser, R.D., J.L. Dooley, Jr., and G.J. Taylor. 1988. Habitat structure, forest composition and landscape dimensions as components of habitat suitability for the Delmarva fox squirrel (*Sciurus niger cinereus*): 414-421. In: R.C. Szaro, K.E. Severson and D.R. Patton (eds.). Management of Amphibians, Reptiles and Small Mammals in North America. U.S. For. Serv. Tech. Rept. RM 166.

Dueser, R.D., J.H. Porter and J.L. Dooley, Jr. 1989. Direct tests for competition in North American rodent communities: synthesis and prognosis: 105-125. In: D.W. Morris, Z. Abramsky, B.J. Fox and M.R. Willig (eds.). Patterns in the Structure of Mammalian Communities. Spec. Publ. Mus., Texas Tech. Univ. 29.

Dueser, R.D. (ed.). 1990. Biota of the Virginia barrier islands. Virginia Academy of Science 41. 204 pp.

Dueser, R.D. and C.O. Handley, Jr. 1991. Fox squirrels: *Sciurus niger cinereus*:585-587. In K. Terwilliger (ed.). Virginia's Endangered Species. McDonald and Woodward Publ. Co., Blacksburg, VA 672 pp.

Dueser, R.D. and C.O. Handley, Jr. 1991. Fox squirrels: *Sciurus niger niger*: 587-589. In: K. Terwilliger (ed.). Virginia's Endangered Species. McDonald and Woodward Publ. Co., Blacksburg, VA. 672 pp.

PUBLICATIONS AND REPORTS (continued)

Schmidt, R.H., M.R. Conover, R.D. Dueser, F.K. Knowlton and T.A. Messmer. 1992. Training tomorrow's specialists in wildlife damage management. Proceedings Eastern Wildlife Damage Control Conference 5:216-217.

3) Book Chapters

Rose, R.K. and R.D. Dueser. 1999. Species account of *Oryzomys palustris*: 554-555. In: D.E. Wilson (ed.). Complete Book of North American Mammals. Smithsonian Inst. Press, Washington, D.C.

4) Monographs and Technical Reports

Dueser, R.D., M.A. Graham, G.J. Hennessey, C. McCaffrey, A.W. Niederoda, T.W. Rice and B. Williams. 1976. Virginia Coast Reserve Study: Ecosystem Description. The Nature Conservancy. Arlington, Virginia. 568 pp.

Dueser, R.D., H.H. Shugart, Jr., and J.C. Randolph. 1976. Structural niches in a forest floor small mammal community. Oak Ridge National Laboratory TM 5004. 116 pp.

5) Workshops

Modern Approaches to the Study of Community Ecology. Three-day workshop on multivariate statistical models and multivariate experiments in community ecology. Department of Biology, Bowling Green State University (1988).

Threatened and Endangered Species of Virginia. Moderator for two-day workshop. Virginia Polytechnic Institute and State University (1989).

Forest Management for Wildlife Habitat and Biodiversity. Ten-day shortcourse for mid-career wildlife biologists with the U.S.D.A. Forest Service. Department of Fisheries and Wildlife, Utah State University (1991, 1992, 1993).

INVITED SEMINARS AND PRESENTATIONS

University of Michigan, Arizona State University, Clemson University, Old Dominion University, East Tennessee State University, University of Richmond, Mountain Lake Biological Station, College of William and Mary, U.S. National Zoo, Oak Ridge National Laboratory, Oregon State University, Bowling Green State University, Texas A&M University, Virginia Institute of Marine Science, Humboldt State University, Virginia Tech University, University of California at Riverside, Emory University, University of North Texas, Virginia Commonwealth University, San Diego State University