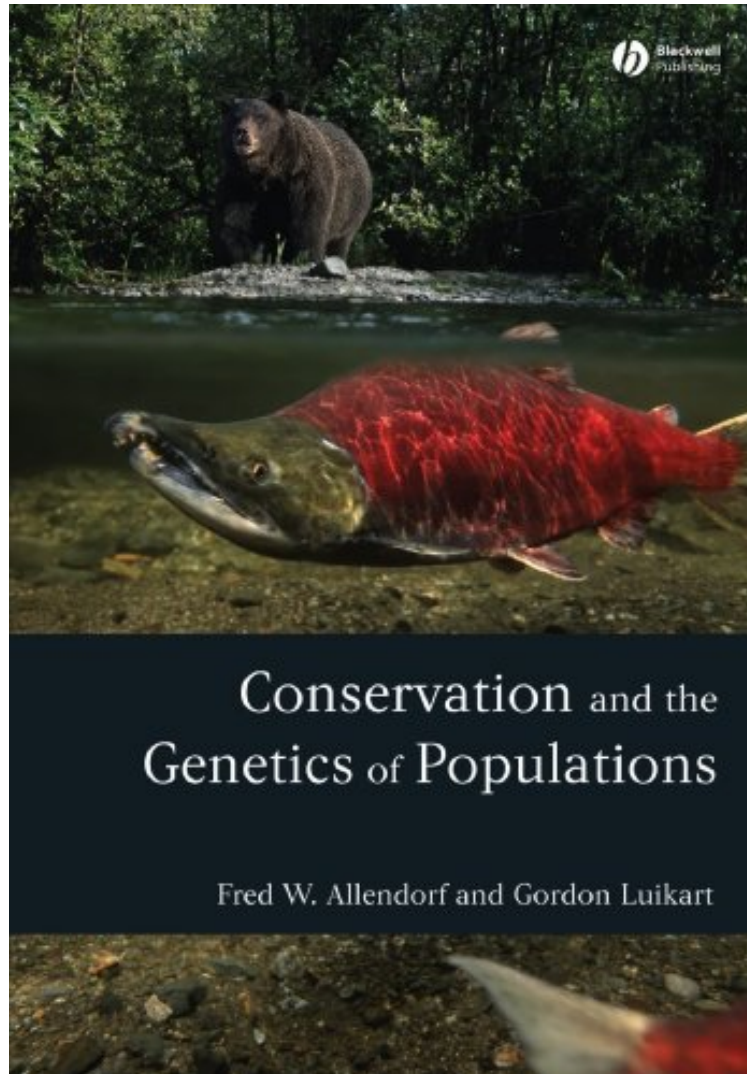


Conservation and the Genetics of Populations

Fred W. Allendorf, Gordon Luikart
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Conservation and the Genetics of Populations gives a comprehensive overview of the essential background, concepts, and tools needed to understand how genetic information can be used to develop conservation plans for species threatened with extinction. Provides a thorough understanding of the genetic basis of biological problems in conservation. Uses a balance of data and theory, and basic and applied research, with examples taken from both the animal and plant kingdoms. An associated website contains example data sets and software programs to illustrate population genetic processes and methods of data analysis. Discussion questions and problems are included at the end of each chapter to aid understanding. Features Guest Boxes written by leading people in the field including James F. Crow, Nancy FitzSimmons, Robert C. Lacy, Michael W. Nachman, Michael E. Soule, Andrea Taylor, Loren H. Rieseberg, R.C. Vrijenhoek, Lisette Waits, Robin S. Waples and Andrew Young. Supplementary information designed to support Conservation and the Genetics of Populations including: Downloadable sample chapter Answers to questions and problems Data sets illustrating problems from the book Data analysis software programs Website links An Instructor manual CD-ROM for this title is available. Please contact our Higher Education team at HigherEducation@wiley.com for more information.

"I have much enjoyed reading this text and recommend it highly to anybody who may be interested in general issues of conservation of animals or plants. It belongs into all zoo libraries and should be read by all who are responsible for any aspect of conservation." *Journal of Heredity* Conservation and the Genetics of Populations is an advanced undergraduate - introductory graduate text on conservation genetics, including introductions and examples of many of the new genetic developments Allendorf and Luikart have produced a worthwhile text that shows how a conservation genetics and evolution framework can be used to understand important forces in conservation. *TRENDS in Ecology and Evolution* "This important book provides a thorough understanding of the genetic basis of biological problems in conservation... essential reading for advanced undergraduate and graduate students of conservation genetics, natural resource management and conservation biology." *Biotechnology, Agronomy, Society and Environment* "An excellent, authoritative and scholarly book." *Environmental Conservation* From the Back Cover This important book provides a thorough understanding of the genetic basis of biological problems in conservation. Conservation and the Genetics of Populations gives a comprehensive overview of the essential background, concepts, and tools needed to understand how genetic information can be used to develop conservation plans for species threatened with extinction. Loss of biodiversity is among the greatest problems facing the world today, but thanks to new molecular technologies, statistical methods, and computer programs, genetic theories and methods are becoming increasingly useful in the conservation of biological diversity. Using a balance of data and theory, and basic and applied research, Conservation and the Genetics of Populations examines genetic and phenotypic variation in natural populations, the principles and mechanisms of evolutionary change, the interpretation of genetic data from natural populations, and how this may be applied to conservation. The book includes examples from both plants and animals, as well as from natural and captive populations. Written in an accessible style, each chapter includes discussion questions and problems to aid understanding, and also features a "Guest Box" authored by leading people in the field. An associated website (www.blackwellpublishing.com/allendorf) contains solutions to questions, example data sets, and software programs to illustrate population genetic processes and methods of data analysis. This book is essential reading for advanced undergraduate and graduate students of conservation genetics, natural resource management, and conservation biology, as well as professional conservation biologists working for wildlife and habitat management agencies. About the Author Fred W. Allendorf is a Regents Professor at the University of Montana and a Professorial Research Fellow at Victoria University of Wellington in New Zealand. His primary research interests are conservation and population genetics. He has published over 200 articles on the population genetics and conservation of fish, amphibians, mammals, invertebrates, and plants. He is a past President of the American Genetic Association, served as Director of the Population Biology Program of the National Science Foundation, and has served on the editorial boards of *Conservation Biology*, *Molecular Ecology*, *Evolution*, *Conservation Genetics*, *Molecular Biology and Evolution*, and the *Journal of Heredity*. He has taught conservation genetics at the University of Montana, University of Oregon, University of Minnesota, and Victoria University of Wellington. Gordon Luikart is a Research Associate Professor at the University of Montana and a Visiting Professor in the Center for Investigation of Biodiversity and Genetic Resources at the University of Porto, Portugal. He was a Research Scientist with the Centre National de la Recherche Scientifique (CNRS) at the University Joseph Fourier in Grenoble, France. His research focuses on the conservation and genetics of wild and domestic animals, and includes nearly 50 publications in the field. He was a Fulbright Scholar at La Trobe University, Melbourne, Australia, is a member of the IUCN specialists group for Caprinae (mountain

ungulate) conservation, and has served on the editorial boards of *Conservation Biology* and *Molecular Ecology Notes*.