DESCRIPTION

Population ecology has matured to a sophisticated science with astonishing potential for contributing solutions to wildlife conservation and management challenges. And yet, much of the applied power of wildlife population ecology remains untapped because its broad sweep across disparate subfields has been isolated in specialized texts. In this book, L. Scott Mills covers the full spectrum of applied wildlife population ecology, including genomic tools for non-invasive genetic sampling, predation, population projections, climate change and invasive species, harvest modeling, viability analysis, focal species concepts, and analyses of connectivity in fragmented landscapes. With a readable style, analytical rigor, and hundreds of examples drawn from around the world, Conservation of Wildlife Populations (2nd ed) provides the conceptual basis for applying population ecology to wildlife conservation decision-making. Although targeting primarily undergraduates and beginning graduate students with some basic training in basic ecology and statistics (in majors that could include wildlife biology, conservation biology, ecology, environmental studies, and biology), the book will also be useful for practitioners in the field who want to find - in one place and with plenty of applied examples - the latest advances in the genetic and demographic aspects of population ecology.

Additional resources for this book can be found at: www.wiley.com/go/mills/wildlifepopulations.
ABOUT THE AUTHOR

L. SCOTT MILLS is a Professor in the Wildlife Biology Program at The University of Montana. He was a 2009 John Simon Guggenheim Fellow, has received multiple NSF Awards, served on the Board of Governors for the North American Section of the Society for Conservation Biology, and has testified to Congress about the role of ethics in wildlife population biology research. Mills was an invited contributor to the 2007 *Intergovernmental Panel on Climate Change Report* (IPCC) report, and to the Western Governors’ Association *Climate Change Working Group*. His research and teaching integrates field studies with population models and genetic analyses to understand effects of human perturbations on wildlife populations. Mills’ research on wildlife around the world—from snowshoe hares to marmots, mice to coyotes, bighorn sheep to snow leopards and tigers—has been covered in media outlets including *Newsweek, National Geographic, The New York Times, Discovery Channel Canada, Science News, National Public Radio, Nature, Science,* and *The Nature of Things with David Suzuki*.

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