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 ""Chapter 8. Behavior of White-tailed Ptarmigan during the Breeding Season"" ""8.1 Introduction""; ""8.2 Study areas""; ""8.3 Methods""; ""8.4 Early territorial behavior""; ""8.5 Territories and territorial maintenance""; ""8.6 Pair bonds""; ""8.7 The brood period""; ""8.8 Male postbreeding flocks""; ""8.9 Summary""; ""Chapter 9. Cyclic Population Changes and Some Related Events in Rock Ptarmigan in Iceland""; ""9.1 Introduction""; ""9.2 Study areas""; ""9.3 Methods""; ""9.4 Results and Discussion""; ""9.5 Summary""; ""Chapter 10. Winter Survival and Breeding Strategies of Willow Ptarmigan""
 ""10.1 Introduction"" ""10.2 Study area""; ""10.3 Methods""; ""10.4 Numbers, breeding success, and mortality""; ""10.5 The winter environment""; ""10.6 Ptarmigan survival strategies for the winter environment""; ""10.7 Spring spacing behavior and its effect on the population""; ""10.8 Conclusions""; ""10.9 Summary""; ""Chapter 11. Demography of an Island Population of Willow Ptarmigan in Northern Norway""; ""11.1 Introduction""; ""11.2 Study area""; ""11.3 Materials and methods""; ""11.4 General features of population variations""; ""11.5 Annual variations in production""; ""11.6 Hypotheses to explain changes in production""

Sommario/riassunto

"Adaptive Strategies and Population Ecology of Northern Grouse" was first published in 1988. Minnesota Archive Editions uses digital technology to make long-unavailable books once again accessible, and are published unaltered from the original University of Minnesota Press editions. This book is at once a major reference to the species of grouse that inhabit North America and the Holarctic and a synthesis of all the available data on their ecology, sociobiology, population dynamics, and management. The book undertakes to answer two long-standing questions in population ecology: what actually regulates the numbers within a population, and what are the breeding and survival strategies evolved in this northern environment? For Volume I, editors Arthur T. Bergerud and Michael W. Gratson have drawn together their own work and that of colleagues in North America, Iceland, and Norway--in all, eleven research studies, averaging six years' duration, on eight species of grouse. These studies deal with the blue and ruffed grouse of the forest habitat; the sharp-tailed grouse, prairie chicken, and sage grouse of the prairie or steppe; and the white-tailed, rick, and willow ptarmigan found in alpine and arctic tundras. The authors describe the rich repertoire of behavior patterns developed by the hen and the cock to achieve their two primary objectives--first, to stay alive, and then to breed. Volume II, primarily the work of Bergerud, synthesizes the evidence in Volume I and in the grouse research literature from a theoretical perspective. Several potentially controversial sociobiological hypotheses are advanced to account for flocking behavior, migration, dispersal, roosting and feeding behavior, mate choice and mating systems. The demographic analysis provides new insights into cycles of abundance, the limitation of numbers, and the demographic factors that determine densities. The contributors, besides Bergerud and Gratson: R.C. Davies, A. Gardarson, J.E. Hartzler, R.A. Huempfner, D.A. Jenni, D.H. Mossop, S. Myrberget, R.E. Page, R.K. Schmidt, W.D. Svedarsky, and J.R. Tester.
