

**FEDERAL AID
INTERIM PERFORMANCE REPORT**

ALASKA DEPARTMENT OF FISH AND GAME
DIVISION OF WILDLIFE CONSERVATION
PO Box 115526
Juneau, AK 99811-5526

**Alaska Department of Fish and Game
State Wildlife Grant**

Grant Number: T-9 **Segment Number:** 1
Project Number: 2.0
Project Title: Population structure and conservation status of spruce grouse in southeast Alaska
Project Duration: 1 July 2008 – 30 June 2010
Report Period: 1 July 2008 – 30 June 2009
Report Due Date: September 30, 2009
Partner: University of Alaska Southeast

Project Objectives:

OBJECTIVE 1: Quantify the degree of genetic distinctiveness of spruce grouse in southeast Alaska using microsatellite genetic markers and to assess the conservation value of southeast Alaska populations for state managers.

Summary of Project Accomplishments:

OBJECTIVE 1: We generated nuclear microsatellite and mtDNA sequence data from spruce grouse samples collected in central Alaska, southeast Alaska, and Canada. More than 70 individuals were genotyped at 6 microsatellite loci and more than 40 individuals were sequenced at the COI mtDNA locus. These data were analyzed using phylogenetic and population genetic methods. All analyses suggest southeast Alaska spruce grouse are genetically distinct from other spruce grouse.

Significant Deviations:

None.

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