

**Wildlife Restoration OPERATING GRANT  
FINAL 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  
Wildlife Restoration Grant**

**GRANT NUMBER:** AKW-B-R3-2020

**PROJECT NUMBER:** P1.77

**PROJECT TITLE:** Moose Demography in Game Management Unit 20

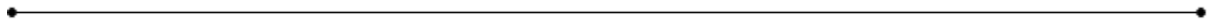
**PERIOD OF PERFORMANCE:** July 1, 2019 - June 30, 2021

**PERFORMANCE YEAR:** July 1, 2020 - June 30, 2021; year 2 of a 2-year grant

**REPORT DUE DATE:**

**PRINCIPAL INVESTIGATOR:** Graham Frye, Wildlife Research Biologist, ADF&G

**COOPERATORS:** Tony Hollis, Mark Nelson



**I. PROGRESS ON PROJECT OBJECTIVES DURING PERFORMANCE YEAR**

**OBJECTIVE 1:** Measure age-specific moose reproduction and survival in GMU 20.

**ACCOMPLISHMENTS:** Reproduction (parturition and twinning rates) of known-age radio-collared female moose was measured in GMU 20A over the course of 24 telemetry flights between 11 May 2021 and 26 June 2021. Survival status was monitored during 7 additional telemetry flights between 01 July 2020 and 30 June 2021.

**OBJECTIVE 2:** Analyze new and historic data on moose demography in GMU 20 to refine the current understanding of age-specific demographic characteristics relative to density.

**ACCOMPLISHMENTS:** Historic data on abundance, adult survival, short-yearling weights, and twinning rates from across Interior Alaska were compiled. These data will be analyzed with the intention of refining the current understanding of age-specific demographic characteristics relative to density.

**II. SUMMARY OF WORK COMPLETED ON PROJECT TO DATE.**

During the first two years of the study, reproductive and survival metrics were measured regularly, as planned. Additionally, historic reproductive and survival data from Interior Alaska were compiled for comparison and analysis.

**III. SIGNIFICANT DEVELOPMENT REPORTS AND/OR AMENDMENTS.**

NA

**IV. PUBLICATIONS**

NA

**V. RECOMMENDATIONS FOR THIS PROJECT**

This project should continue, as originally planned, through FY26.

**Prepared by:** Graham Frye

**Date:** 23 Aug 2021