

**Wildlife Restoration MULTI-YEAR GRANT  
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  
Wildlife Restoration Grant**

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

**PROJECT NUMBER:** 1.77

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

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

**PERFORMANCE YEAR:** July 1, 2019 - June 30, 2020

**REPORT DUE DATE:** Submit to FAC August 28, 2020

**PRINCIPAL INVESTIGATOR:** Graham Frye

**COOPERATORS:** Tony Hollis, Mark Nelson

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Authorities: 2 CFR 200.328  
2 CFR 200.301  
50 CFR 80.90

**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 26 telemetry flights between 10 May 2020 and 20 June 2020. Survival status was monitored during 7 additional telemetry flights between 01 July 2019 and 30 June 2020.

**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 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 this first year of the study, reproductive and survival metrics were measured. Additionally, historic reproductive data were compiled for subsequent analysis. At present, it is too early for formal analyses of moose demographic data in GMU 20.

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

1) Travel was to a wildlife statistics conference in Anchorage to aid in analyses for the project. Travel was prior to COVID. The conference was not scheduled at the time of the budget request.

2) Supplies were purchased when the need arose after the time of the budget request; specifically:

- Statistics books were purchased to aid in analyses
- 2 bags were purchased for capture/telemetry supplies
- AVgas was purchased to conduct telemetry flights
- New VHF radio-collars were purchased for the moose being monitored

**IV. PUBLICATIONS**

NA

**V. RECOMMENDATIONS FOR THIS PROJECT**

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

**Prepared by:** Graham Frye

**Date:** 10 Aug 2020