

**FEDERAL AID ANNUAL
RESEARCH 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: W-33

SEGMENT NUMBER: 11

PROJECT NUMBER: 1.65

PROJECT TITLE: Age-specific natural mortality rates of male vs. female moose

PROJECT DURATION: 1 July 2006–30 June 2014

REPORT DUE DATE: 1 September 2013

PRINCIPAL INVESTIGATOR: Vacant, ADF&G

COOPERATORS: Layne G. Adams (USGS) and Brad Griffith (University of Alaska Fairbanks)

WORK LOCATION: Fairbanks

**I. SUMMARY OF WORK COMPLETED THIS SEGMENT ON JOBS IDENTIFIED
IN ANNUAL WORK PLAN**

JOB/ACTIVITY 1: Literature review.

Not conducted during the report period.

JOB/ACTIVITY 2: Estimate reproductive/condition parameters.

To determine reproductive rates, we radiotracked 26 adult females on alternate days from 11 May to 13 June 2013. We observed a birth rate of 18/26 or 69% and a twinning rate of 4/18 or 22% among adult females 8 to 16 years of age. Reproductive rates indicated continued low moose condition relative to other moose populations in Alaska.

JOB/ACTIVITY 3: Assess causes and rate of mortality of moose.

To assess causes and rates of moose mortality, we radiotracked moose at least monthly and used a helicopter to examine mortality sites. We began 1 July 2010 with 79 moose (48 females and 31 males) and ended on 30 June 2013 with 40 moose (26 females and 14 males).

All 5 males were shot. Of the 8 females that died, 4 died from wolves, 1 was shot, 2 died from nonpredation, and 1 was killed by a grizzly bear.

JOB/ACTIVITY 4: Write reports and publications.

We wrote no other summaries of data during this reporting period.

II. SIGNIFICANT DEVIATIONS AND/OR ADDITIONAL FEDERAL AID-FUNDED WORK NOT DESCRIBED ABOVE THAT WAS ACCOMPLISHED ON THIS PROJECT DURING THIS SEGMENT PERIOD

None.

III. PUBLICATIONS

None.

IV. RECOMMENDATIONS FOR THIS PROJECT

None.

PREPARED BY: Scott M. Brainerd, ADF&G

DATE: 22 August 2013