

**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: 1.74

PROJECT TITLE: How do regenerating burns influence moose populations and harvest in Interior Alaska?

PROJECT DURATION: 1 July 2012–30 June 2016

REPORT DUE DATE: 1 September 2013

PARTNER: None

PRINCIPAL INVESTIGATOR: Kalin A. Kellie Seaton, ADF&G

COOPERATORS: Dr. Todd Brinkman (UAF/SNAP), Liz Neipert (University of Colorado/U.S. Army), and Casey Brown (Ph.D. Candidate/UAF).

WORK LOCATION: Game Management Unit 20D

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

OBJECTIVE 1: Document the effect of the Hajdukovich burn on individual moose.

JOB/ACTIVITY 1A: Obtain fine-scale data on the movements and activity of adult male moose.

In October 2012 I deployed 25 GPS radio collars on adult male moose in GMU 20D. Contracts with CLS America (ARGOS satellite system) and ABR (GPS data download and database maintenance) were formed to process and archive incoming data from the collars. The fieldwork was summarized and presented to the Delta Advisory Committee in April 2013.

JOB/ACTIVITY 1B: Develop GIS products for use in habitat selection models.

Salcha-Delta Soil and Water Conservation District was contracted to complete a 5 m vegetation classification for the Hajdukovich burn. The classification already existed for about half of the burn that overlapped with military land (the Gerstle River Training Area). This contract completed the classification for the rest of the burn and seamed the 2 classifications into a single GIS layer for analysis.

OBJECTIVE 3: Measure the impact of burn-level dynamics on population-level abundance and harvest.

JOB/ACTIVITY 3B: Compare moose harvest in the burn relative to the rest of southwest GMU 20D.

I reviewed and classified as burn/no burn the harvest reports for moose killed in GMU 20D south of the Tanana River from 2001 to 2011.

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: Kalin A. Kellie Seaton, ADF&G

DATE: 15 August 2013