

**FEDERAL AID
ANNUAL 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-21 **Segment Number: 1**
Project Number: 20.0
Project Title: Gyrfalcon Dispersal, Site Fidelity, and Adult Survival.
Project Duration: 16 April 2011 – 30 June, 2014
Report Period: 1 July 2012 – 30 June 2013
Report Due Date: 28 September 2013
Principle Investigator: Travis Booms, ADF&G
Project Location: Yukon Delta National Wildlife Refuge, Western Alaska

I. SUMMARY OF WORK COMPLETED ON JOBS FOR LAST SEGMENT PERIOD ONLY

Objective 1: Estimate Gyrfalcon breeding dispersal, natal dispersal, territory fidelity, and adult survival on the Yukon Delta National Wildlife Refuge and as needed, elsewhere in Western Alaska.

Job/Activity 1a: Annually survey historical breeding study areas by foot, plane, or helicopter to identify occupied nest cliffs.

Job/Activity 1b: Collect adult molted feathers from nest cliffs annually in a mark-recapture framework.

Job/Activity 1c: Collect blood samples from all nestlings present.

Job/Activity 1d: Genotype samples to identify individuals and their movements across space and time in a mark-recapture framework.

Accomplishments:

I surveyed 12 historical Gyrfalcon nest cliffs by foot on the Yukon Delta NWR to identify occupied nests in June 2013. From 7 sites occupied by Gyrfalcons, I collected 244 adult molted feathers and 10 nestling blood samples to use in a mark-recapture analysis. These samples will be shipped to a genetics lab in the fall 2013 for analysis. Samples from the previous field season were shipped to the genetics lab in January 2013. Federal Aid funds were used to support salary, shipment of samples, and field logistics.

Objective 2: Analyze, disseminate, and share information with the scientific community and the general public.

Job/Activity 2a: Write and publish articles summarizing results for scientific and general public audiences.

Job/Activity 2b: Present results at scientific conferences.

Accomplishments:

Wrote one field report in fall 2012 summarizing the field effort from the previous reporting period. Other reports and publications not completed because this task was done during the previous reporting period. Federal Aid funds were used to support salary.

II. PUBLICATIONS

None.

III. ADDITIONAL FEDERAL AID-FUNDED WORK NOT DESCRIBED ABOVE THAT WAS ACCOMPLISHED ON THIS PROJECT DURING THIS SEGMENT PERIOD

None.

IV. RECOMMENDATIONS FOR THIS PROJECT

None.

Prepared by: Travis Booms, ADF&G

Date: 8/29/2013