

Alaska Department of Fish and Game
State Wildlife Grant
ANNUAL INTERIM PERFORMANCE REPORT

Grant Number: T-1 **Segment Number:** 6
Project Number: 7
Project Title: Breeding ecology and habitat quality for arctic warbler in Interior Alaska
Project Duration: July 1, 2004 – June 30, 2007
Report Period: July 1, 2004 – June 30, 2005
Report Due Date: September 30, 2005

Objectives (*as submitted in grant project statement*):

1. Document Arctic Warbler breeding chronology, productivity, territory size, and site fidelity; and
2. Develop a hierarchical model of habitat quality for the Arctic Warbler in Interior Alaska.

Summary of Accomplishments (*Describe accomplishments related to the work that was proposed to be done during this same period in the Project Description and work schedule*):

The following accomplishments relate to Objective 1:

2004 Field Season

1. Found and monitored 24 nests; recorded number of eggs, nestlings, and fledglings to document breeding chronology and productivity. Average clutch size = 5.2 eggs (sd=1.00, range 3-7), mean brood size = 4.5 (sd= 1.2, range 2-6), productivity = 4.1 nestlings/nest (sd = 1.7, range 0-6) and nest success was 92%.
2. Banded 22 adults with USFWS bands and color bands to help determine territory size and site fidelity.
3. Banded 48 nestlings with USFWS bands to determine natal site fidelity in upcoming field seasons.

2005 Field Season

1. Recorded the first male singing on 7 June.
2. Found and monitored 27 nests (an additional 12 were found in July 2005); recorded the number of eggs and nestlings to document breeding chronology and productivity. Analysis will be completed at the end of the field season.
3. Banded 46 adults (through 22 July 2005) with USFWS bands and color bands to help determine territory size and site fidelity.

The following accomplishments relate to Objective 2:

2004 Field Season

1. Collected vegetation data within a circle (10 meter radius) with the nest at the center at 24 nest sites and within a 1 meter radius circle 7 meters southwest of the nest.
2. These data will be combined with the following field season's data to develop an Arctic Warbler habitat model.

2005 Field Season (through June 30 only)

1. Completed off-study-plot transects to survey for Arctic Warblers in various habitats.

Significant Deviations *(if any, and explain the reasons for these):*

None

Actual Costs during this Report Period *(personnel plus all operating expense totals):*

Federal (from ADF&G):	Partner (nonfederal share):
\$17,938	\$5,979.33

Project Leader *(or Report Contact Person):* Susan Sharbaugh

Additional Information: *(Not required. Add any additional detail, if desired, related to the progress of the project):*

Data for Objective 2 will be summarized and presented at the end of the project.

Data from this project has been presented in number of different venues. I gave a public presentation in November 2004 to Anchorage Audubon (a funding partner) at the Campbell Creek Science Center in Anchorage. I also presented the data at the Boreal Partners in Flight meeting in Anchorage (December 2004). A poster summarizing the 2004 season has been on display at ABO's Center for Education and Research in Fairbanks since April 2004. And the executive summary from the 2004 Progress Report is available on ABO's website: <http://www.alaskabird.org/ABOResearch/ABO-ARWAExecSummary04.pdf>