

**FEDERAL AID
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
State Wildlife Grant**

Grant Number: T-1 **Segment Number:** 16
Project Number: 5
Project Title: Detecting trends in marbled murrelet populations in Southeast Alaska
Project Duration: May 25, 2006 – December 31, 2007
Report Period: May 25, 2006 – May 24, 2007
Report Due Date: August 20, 2007
Partner: University of Washington

Project Objective: Develop a statistically reliable survey protocol for estimating marbled murrelet population trends in Southeast Alaska based on an assessment of available data and existing survey protocols.

1. Collect existing datasets and summarize methodological details on each.
2. Collect additional marbled murrelet at-sea protocols from British Columbia, Washington, and Oregon and summarize methods.
3. Determine the statistical power of existing survey data to detect significant trends
4. Prepare final reports and publications.

Summary of Accomplishments

Objective 1: COMPLETED. All the original at-sea data for SE Alaska, including where necessary raw data sheets, maps (including GIS data), and notes have been collected, collated, and cleaned for use in data analysis. These include 12 unique datasets from several different sources, including the FWS surveys of SEAK by Agler in 1994, Hodges in 1997-2001, and Lindell in SEAK, Glacier Bay and Icy Strait in 1993-1999; the USGS surveys in Glacier Bay and Icy Strait in 1999-2003; the USFS surveys of 7 different forest districts of SEAK; and finally surveys from four different sites in British Columbia in 1994-2006. Methodological details on each of these surveys have also been compiled.

Objective 2: COMPLETED. Sampling protocols from British Columbia, Washington, Oregon and California have been compiled and summarized.

Objective 3: IN PROGRESS. All data have been compiled and turned over to a statistical consultant (WEST Inc.) for the power analysis and evaluation of different sampling protocols. This work is delayed, and will be completed during August-November.

Objective 4: NOT COMPLETED. With concurrence of ADF&G (Mary Rabe), the deadline for completion of the final report has been changed to December 2007.

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Significant Deviations: We were unable to complete the project by the deadline of May 31, 2007 owing to difficulty in staffing; the need to complete an urgent Status Assessment on the marbled murrelet last winter; consecutive illnesses of the PIs during spring; and delay in establishing a contract with the statistical consultant. The final report due date has therefore been revised to December 31, 2007 (see above).

Project Leaders

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