

**Alaska Department of Fish and Game  
Wildlife Restoration Grant**

**Grant Number:** W-33-8 **Segment Number: 1**

**Project Number:** 4.43

**Project Title:** Southeast brown bear data analysis and report preparation

**Project Duration:** July 1, 2009 – June 30, 2011

**Report Period:** July 1, 2009 – June 30, 2010

**Report Due Date:** September 1, 2010

**PRINCIPAL INVESTIGATORS:** Rod Flynn, Research Coordinator, ADF&G

**WORK LOCATION:** Southeast Alaska

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**I. PROBLEM OR NEED THAT PROMPTED THIS RESEARCH**

Brown bears have been studied by various department biologists for several years in Southeast Alaska. These studies generated a wealth of new information on brown bear population and habitat ecology in this part of the state. Although project reports have been completed, little of the information has entered the published literature. Because brown bears remain an important conservation issue in coastal Alaska, published information is needed to help guide management decisions.

**II. REVIEW OF PRIOR RESEARCH AND STUDIES IN PROGRESS ON THE PROBLEM OR NEED**

Several research projects on brown bears in Southeast Alaska have been completed during the last 3 decades, including studies on Admiralty and Chichagof Islands (Schoen and Beier 1990, Titus et al. 1999, Flynn et al. 2007) and the southern mainland coast (Flynn et al. 2006). Now, we have an opportunity to synthesize the information using new statistical approaches and incorporate it into several manuscripts.

**III. APPROACHES USED AND FINDINGS RELATED TO THE OBJECTIVES AND TO PROBLEM OR NEED**

We will compile and synthesize all available data on brown bear population and habitat ecology from previous studies completed in Southeast Alaska. In consultation with staff biometrician, appropriate analytical procedures will be determined and applied. Suitable publication outlets will be determined and manuscripts for publication in scientific journals prepared.

**IV. MANAGEMENT IMPLICATIONS**

Because brown bears remain an important conservation issue in coastal Alaska, published information is needed to guide management. Now, we have an opportunity to synthesize

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the information using new statistical approaches and incorporate it into several manuscripts or a monograph.

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

JOB/ACTIVITY 1: Gather and synthesize all historic data

**Accomplishments:** We gathered the location data from John Schoen's (Schoen and Beier 1990) and Kim Titus' (Titus et al. 1999) research and incorporated it into a GIS system. We also had access to recent Chichagof and southern mainland data sets.

JOB/ACTIVITY 2: Apply constant analytical procedures to the data

**Accomplishments:** We researched the analytical procedures.

JOB/ACTIVITY 3: Prepare manuscripts suitable for publication

**Accomplishments:** None yet.

**VI. PUBLICATIONS**

None.

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

None.

**VIII. RECOMMENDATIONS FOR THIS PROJECT**

None.

**Literature Cited**

- Flynn, R.W., S.B. Lewis, L. Beier, and G. Pendleton. 2006. Abundance, spatial relationships, and transboundary movements of brown bears on the Mainland Coast of Southeast Alaska. Unpublished progress report. Division of Wildlife Conservation, Alaska Department of Fish and Game, Douglas.
- Flynn, R.W., S.B. Lewis, L. Beier, and G. Pendleton. 2007. Brown bear use of riparian and beach zones on northeast Chichagof Island, Southeast Alaska. Unpublished final report. Division of Wildlife Conservation, Alaska Department of Fish and Game, Douglas.
- Flynn, R.W., S.B. Lewis, L. Beier, and G. Pendleton. 2008. Brown bear monitoring for Juneau Access Improvements Project. Unpublished progress report. Division of Wildlife Conservation, Alaska Department of Fish and Game, Douglas.

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Schoen, J.W. and L.R. Beier. 1990. Brown bear habitat preferences and brown bear logging and mining relationships in Southeast Alaska. Final Report. Alaska Department of Fish and Game. Federal Aid in Wildlife Restoration Project W-22-1, Study 4.22. Juneau.

Titus, K.T., R.W. Flynn, G.W. Pendleton, and L.R. Beier. 1999. Population and habitat ecology of brown bears on Admiralty and Chichagof islands. Final Report. Alaska Department Fish and Game. Federal Aid in Wildlife Restoration Project W-27-3, Study 4.22. Juneau.

**Prepared by: Rod Flynn**

**Date: 1/06/2011**