

IDAHO DEPARTMENT OF FISH AND GAME

Cal Groen, Director

Project W-170-R-34

Progress Report



MOUNTAIN GOAT

Study I, Job 5

July 1, 2009 to June 30, 2010

Prepared by:

Jim Hayden, Dave Spicer..... Panhandle Region
Jay Crenshaw, Tom Schrempp Clearwater Region
Steve Nadeau, Jennifer Struthers Southwest (Nampa) Region
Jeff Rohlman.....Southwest (McCall) Region
Randy Smith, Regan Berkley..... Magic Valley Region
Daryl Meints, Russell Knight Upper Snake Region
Tom Keegan, Laura Wolf Salmon Region
David SmithWildlife Bureau

Compiled and edited by: Dale Toweill, Wildlife Program Coordinator

July 2010
Boise, Idaho



Findings in this report are preliminary in nature and not for publication without permission of the Director of the Idaho Department of Fish and Game.

The Idaho Department of Fish and Game adheres to all applicable state and federal laws and regulations related to discrimination on the basis of race, color, national origin, age, gender, or handicap. If you feel you have been discriminated against in any program, activity, or facility of the Idaho Department of Fish and Game, or if you desire further information, please write to: Idaho Department of Fish and Game, PO Box 25, Boise, ID 83707; or the Office of Human Resources, U.S. Fish and Wildlife Service, Department of the Interior, Washington, DC 20240.

This publication will be made available in alternative formats upon request. Please contact the Idaho Department of Fish and Game for assistance.

TABLE OF CONTENTS

| | |
|---|----|
| STATEWIDE..... | 1 |
| PANHANDLE REGION | 2 |
| GMUS 1, 4A, 9..... | 2 |
| Abstract..... | 2 |
| Management Direction..... | 2 |
| Background..... | 2 |
| Population Surveys | 3 |
| Management Implications..... | 3 |
| LITERATURE CITED | 4 |
| SOUTHWEST (NAMPA) REGION | 23 |
| GMUS 33, 34, 35, 39 | 23 |
| Abstract..... | 23 |
| Management Direction..... | 23 |
| Background..... | 23 |
| Population Surveys | 23 |
| Harvest Characteristics | 24 |
| Management Implications..... | 24 |
| SOUTHWEST (MCCALL) REGION..... | 27 |
| GMUS 19A, 20A, 22, 23, 24, 25, 26 | 27 |
| Abstract..... | 27 |
| Management Direction..... | 27 |
| Background..... | 27 |
| Population Surveys | 28 |
| Harvest Characteristics | 28 |
| Management Implications..... | 28 |
| MAGIC VALLEY REGION | 30 |
| GMUS 36, 43, 48..... | 30 |
| Abstract..... | 30 |
| Management Direction..... | 30 |
| Background..... | 30 |
| Population Surveys | 30 |

TABLE OF CONTENTS (Continued)

| | |
|---|----|
| Harvest Characteristics | 31 |
| Capture and Translocation | 31 |
| Management Implications..... | 31 |
| UPPER SNAKE REGION..... | 35 |
| Abstract..... | 35 |
| Climatic Conditions | 35 |
| GMUS 49, 50..... | 35 |
| Background..... | 35 |
| Population Surveys | 36 |
| Harvest Characteristics | 36 |
| Habitat Conditions | 36 |
| Capture and Translocation | 36 |
| Management Implications..... | 36 |
| GMUS 51, 58, 59, 59A | 37 |
| Background..... | 37 |
| Population Surveys | 37 |
| Harvest Characteristics | 38 |
| Habitat Conditions | 38 |
| Capture and Translocation | 38 |
| Management Implications..... | 38 |
| GMU 67 | 39 |
| Background..... | 39 |
| Population Surveys | 39 |
| Harvest Characteristics | 40 |
| Habitat Conditions | 40 |
| Capture and Translocation | 41 |
| Management Implications..... | 41 |
| LITERATURE CITED | 41 |
| SALMON REGION..... | 47 |
| GMUS 21, 21A, 27, 28, 29, 30, 30A, 36, 36A, 36B, 37, 37A..... | 47 |
| Abstract..... | 47 |

TABLE OF CONTENTS (Continued)

Management Direction.....47
Climatic Conditions47
Background.....48
Population Surveys48
Harvest Characteristics49
Habitat Conditions49
Capture and Translocation50
Management Implications.....50
APPENDIX A.....59

TABLE OF CONTENTS (Continued)

LIST OF TABLES

PANHANDLE REGION

| | |
|--|---|
| Table 1. Mountain goat surveys, GMU 1, Panhandle Region, 1955-2001..... | 5 |
| Table 2. Mountain goat surveys, GMU 4A, Panhandle Region, 1973-2001..... | 7 |
| Table 3. Mountain goat surveys, GMU 9, Panhandle Region, 1957-2001..... | 8 |

CLEARWATER REGION

| | |
|---|----|
| Table 1. Mountain goat surveys, GMUs 10, 12, and 17, Clearwater Region, 1981-present. | 16 |
| Table 2. Mountain Goat harvest and drawing odds, Clearwater Region, 1983-present. | 18 |
| Table 3. Mountain goat harvest and drawing odds by hunt area, Clearwater Region, 1997-present. | 19 |
| Table 4. Mountain goat translocation, Clearwater Region, 1962-2003..... | 20 |
| Table 5. Mountain goat surveys, GMUs 18, 19, and 20, Clearwater Region, 1981-2002..... | 21 |

SOUTHWEST REGION

| | |
|--|----|
| Table 1. Mountain goat surveys, Southwest (Nampa) Region, 1976-2009..... | 25 |
| Table 2. Mountain goat harvest and drawing odds, Southwest Region, 2005-present..... | 26 |

McCALL REGION

| | |
|--|----|
| Table 1. Mountain goat surveys, Southwest (McCall) Region, 1982-2007..... | 29 |
| Table 2. Mountain goat harvest and drawing odds, Southwest (McCall) Region, 2003-present. | 29 |

MAGIC VALLEY REGION

| | |
|--|----|
| Table 1. Mountain goat surveys, Magic Valley Region, 1981-2004..... | 32 |
| Table 2. Mountain goat harvest and drawing odds by hunt area, Magic Valley Region, 1983-present..... | 33 |

UPPERSNAKE REGION

| | |
|---|----|
| Table 1. Mountain goat harvest and drawing odds, Upper Snake Region, 1981-present..... | 42 |
| Table 2. Mountain goat surveys, Upper Snake Region, 1982-present..... | 43 |
| Table 3. Mountain goat harvest and drawing odds by hunt area, Upper Snake Region, 1997-present..... | 45 |
| Table 4. Mountain goat translocation, Upper Snake Region, 1969-1997..... | 46 |

TABLE OF CONTENTS (Continued)

SALMON REGION

| | |
|---|----|
| Table 1. Mountain goat surveys by hunt area, Salmon Region, 1988-present. | 51 |
| Table 2. Mountain goat harvest and drawing odds, Salmon Region, 1979-present. | 54 |
| Table 3. Mountain goat harvest and drawing odds by hunt area, Salmon Region, 1997-present. | 55 |
| Table 4. Approved mountain goat release sites, Salmon Region. | 58 |
| Table 5. Mountain goat translocation, Salmon Region, 1982-1997. | 58 |

LIST OF FIGURES

| | |
|--|----|
| Figure 1. Comparison of aerial surveys for mountain goats, Panhandle Region, 1961-2001. | 10 |
|--|----|

**PROGRESS REPORT
SURVEYS AND INVENTORY**

| | | | |
|---|-------------------|--------------------|------------------------------------|
| STATE: | <u>Idaho</u> | JOB TITLE: | <u>Mountain Goat Surveys and</u> |
| PROJECT: | <u>W-170-R-34</u> | | <u>Inventories</u> |
| SUBPROJECT: | <u>1-7</u> | STUDY NAME: | <u>Big Game Population Status,</u> |
| STUDY: | <u>I</u> | | <u>Trends, Use, and Associated</u> |
| JOB: | <u>5</u> | | <u>Habitat Studies</u> |
| PERIOD COVERED: <u>July 1, 2009 to June 30, 2010</u> | | | |

STATEWIDE

Mountain goat populations are small and fragmented, with animals scattered throughout central Idaho Wilderness as well as in the Panhandle, Hells Canyon, and the Snake River Range. Populations appear to be declining slightly, although data are limited.

A total of 46 tags for mountain goats of either sex for the fall 2009 hunting season resulted in reported harvest of 42 animals, for a harvest success rate of 91%. The majority of the mountain goats harvested (28 or 67%) were males (Table 12). Age of mountain goats harvested averaged 5.7 years (based on reported counts of horn annuli), and length of the longest horn averaged 8.5 inches. Most (20) mountain goats were harvested in the Salmon Region; 6 mountain goats were harvested in the Clearwater Region, 6 in the Southwest Region, 2 in Magic Valley, and 8 in the Upper Snake Region. Hunter check of harvested mountain goats is mandatory in Idaho.

Hunters may harvest only 1 mountain goat in Idaho. Demand for the few (46) tags offered was high, with 595 applications received in April 2010 for the 30 August – 12 November hunting season. Drawing success statewide averaged 7.7% in April 2010. Among the 595 applicants were 477 resident hunters (80%) and 118 non-resident hunters (20%). All tags were filled in the first drawing.

Mountain Goat hunter participation and harvest between July 1, 2009 and June 30, 2010.

| Area | Hunters | Hunter Days | Total Harvest | Males | Females | % Change in Total Harvest from Previous Year |
|-------------|----------------|--------------------|----------------------|--------------|----------------|---|
| Statewide | 46 | 264 | 42 | 28 | 14 | +8% |

**PROGRESS REPORT
SURVEYS AND INVENTORY**

| | | | |
|---|-------------------|--------------------|------------------------------------|
| STATE: | <u>Idaho</u> | JOB TITLE: | <u>Mountain Goat Surveys and</u> |
| PROJECT: | <u>W-170-R-34</u> | | <u>Inventories</u> |
| SUBPROJECT: | <u>1</u> | STUDY NAME: | <u>Big Game Population Status,</u> |
| STUDY: | <u>1</u> | | <u>Trends, Use, and Associated</u> |
| JOB: | <u>5</u> | | <u>Habitat Studies</u> |
| PERIOD COVERED: <u>July 1, 2009 to June 30, 2010</u> | | | |

PANHANDLE REGION

GMUs 1, 4A, 9

Abstract

Mountain goats are not hunted in Idaho's panhandle because populations do not meet management criteria set in the current mountain goat management plan. No aerial surveys were conducted during this reporting period to assess regional mountain goat populations.

Management Direction

The statewide management policy for mountain goats is to introduce mountain goats into all suitable ranges, maintain or increase all herds, and harvest under a conservative management framework. Harvest is allowed if the total population is at least 50 mountain goats. Harvest shall not exceed 5% of the adult segment of the population except during periods of high recruitment, usually during the early phases of a newly introduced population.

The Pend Oreille population of GMU 4A is specifically identified as having non-consumptive values, with wildlife viewing as the primary focus of this population. The population in the Little North Fork of the Clearwater River is specifically identified for use as a translocation source rather than management for harvest. Selkirk and West Cabinet herds are currently below population levels established as criteria to allow hunting.

Background

Three native populations (Selkirk, West Cabinets, and Little North Fork Clearwater River) and 1 introduced population (Pend Oreille) of mountain goats inhabit Panhandle Region. All populations are small, and no hunting is currently allowed on any of these populations. The Pend Oreille population of mountain goats has a particularly high public value for watchable wildlife, with excellent access by boat to this yearlong, low-elevation range.

Anecdotal information indicates that mountain goat populations in the Panhandle had dropped substantially prior to 1950. Brandborg (1955) cites personal communications of U.S. Forest

Service (USFS) employees in the Selkirk Range who specifically noted a drop in numbers and restriction in distribution during 1928-1950.

Brandborg (1955) attributed these declines to increased access to mountain goat habitat, and implicated unregulated hunting. By 1950, general mountain goat seasons were reduced to just 11 days during September. Controlled hunts were used 1952-1955 and 1966-1976 when most mountain goat hunting was closed in the Panhandle. Since then, the allowable mountain goat harvest in Panhandle Region has ranged from 0-2 mountain goats annually. However, 57 mountain goats have been translocated out of Panhandle Region since 1961 (Hayden and Spicer 1993).

Population Surveys

No population surveys were conducted on mountain goat populations during this report period.

In 2001, observations in the Selkirk Mountains (Table 1) were similar to those of the prior (1995) flights, although numbers of adults was slightly lower, and number of kids slightly higher. There has been a near complete loss of mountain goats in the southern and eastern portions of the Selkirk Mountains. Most of the recent population increase is attributable to translocations into the Selkirk Mountains. Subsequent to a count of only 3 mountain goats in the Selkirk Mountains in 1981, a total of 28 mountain goats were translocated into this range, primarily from Snow Peak (GMU 9).

Idaho includes the minor portion of mountain goat range in the West Cabinet Mountains. Here, counts can be substantially affected by localized movements across state and drainage borders, and the main value in surveys is assessing occupancy of winter range and general recruitment trends. A decline of mountain goats in the Wiggletail/Blue Creek areas and a decline in recruitment is apparent and of concern (Table 1).

The Pend Oreille mountain goat population may be experiencing some growth despite low winter recruitment (Table 2). Numbers appear to have stabilized at about 60% of those estimated in the mid-1980s. The Green Monarchs are essentially devoid of mountain goats, with only occasional sightings. Occasionally goat are observed in Dry Creek, a tributary of the Clark Fork River, to the east of the Green Monarchs.

Mountain goat numbers in the Little North Fork Clearwater River have changed little over the past 40 years (Table 3), despite removal of 88 mountain goats since 1960. However, there has been a noticeable change in distribution, with far fewer mountain goats near the capture site (Snow Peak on Canyon Creek) and more in the nearby Foehl Creek drainage.

Management Implications

Regionally, mountain goat numbers are showing an improvement, but progress is slow (Fig 1). Current numbers are likely at least 50% lower than 40-50 years ago, and may be considerably worse when compared to the early 1900s.

Given the successful reestablishment of mountain goats in the Selkirk Mountains where translocations occurred, it may be desirable to translocate additional mountain goats into isolated areas that have been uninhabited by mountain goats for several decades. Foehl Creek should be investigated as a potential translocation source to supplement trapping on Snow Peak.

Literature Cited

Brandborg, S. M. 1955. Life history and management of the mountain goat in Idaho. Wildlife Bulletin No. 2. Idaho Department of Fish and Game, Boise, USA.

Hayden, J., and D. Spicer. 1993. Pages 3-16 *in* L. E. Oldenburg (ed.). Mountain Goat Job Progress Report W-170-R-17. Idaho Department of Fish and Game, Boise, USA.

Table 1. Mountain goat surveys, GMU 1, Panhandle Region, 1955-2001.

| Inclusive location | Year | Adults | Kids | Unknown | Total | Kids/100 adults |
|---------------------------|--------------------------|-------------------|------|---------|-------|------------------|
| Selkirk Range, GMU 1 | | | | | | |
| Smith to Parker Creek | 1955 ^a | 0 | 0 | 65 | 65 | |
| | 1963 | 15 | 3 | 0 | 18 | 20.0 |
| | 1971 | 0 | 0 | 0 | 0 | 0.0 |
| | 1981 | 0 | 0 | 0 | 0 | 0.0 |
| | 1988 | 0 | 0 | 0 | 0 | 0.0 |
| | 1991 | 2 | 1 | 0 | 3 | 50.0 |
| | 1995 | 0 | 0 | 0 | 0 | 0.0 |
| | 2001 | 0 | 0 | 0 | 0 | 0.0 |
| | Fisher to Farnham Creek | 1955 ^a | 0 | 0 | 0 | 0 |
| 1963 ^c | | 0 | 0 | 0 | 0 | 0.0 |
| 1971 | | 0 | 0 | 0 | 0 | 0.0 |
| 1981 | | 0 | 0 | 0 | 0 | 0.0 |
| 1988 | | 0 | 0 | 0 | 0 | 0.0 |
| 1991 | | 0 | 0 | 0 | 0 | 0.0 |
| 1995 | | 3 | 0 | 0 | 3 | 0.0 |
| 2001 | | 6 | 1 | 0 | 7 | 16.7 |
| Indian to Two Mouth Creek | | 1955 ^a | 0 | 0 | 50 | 50 |
| | 1963 | 5 | 1 | 0 | 6 | 20.0 |
| | 1971 | 0 | 0 | 3 | 3 | |
| | 1981 | 0 | 0 | 0 | 0 | 0.0 |
| | 1988 | 1 | 1 | 0 | 2 | 100.0 |
| | 1991 | 0 | 0 | 0 | 0 | 0.0 |
| | 1995 | 0 | 0 | 0 | 0 | 0.0 |
| | 2001 | 0 | 0 | 0 | 0 | 0.0 |
| | Lion Creek | 1955 ^a | 0 | 0 | 35 | 35 |
| 1963 | | 0 | 0 | 0 | 0 | 0.0 |
| 1971 | | 0 | 0 | 0 | 0 | 0.0 |
| 1981 | | 0 | 0 | 3 | 3 | |
| 1988 | | 4 | 2 | 0 | 6 | 50.0 |
| 1991 | | 9 | 1 | 0 | 10 | 11.1 |
| 1995 | | 13 | 0 | 0 | 13 | 0.0 |
| 2001 | | 5 | 1 | 0 | 6 | 20.0 |
| Caribou Creek | | 1955 ^a | 0 | 0 | 55 | 55 |
| | 1963 | 9 | 2 | 0 | 11 | 22.2 |
| | 1971 | 0 | 0 | 0 | 0 | 0.0 |
| | 1981 | 0 | 0 | 0 | 0 | 0.0 |
| | 1988 | 6 | 2 | 0 | 8 | 33.3 |
| | 1991 | 2 | 0 | 0 | 2 | 0.0 |
| | 1995 | 14 | 3 | 0 | 17 | 21.4 |
| | 2001 | 15 | 6 | 0 | 21 | 40.0 |
| | Total Selkirk population | 1955 ^a | 0 | 0 | 195 | 195 ^b |
| 1963 | | 29 | 6 | 0 | 35 | 20.7 |
| 1971 | | 0 | 0 | 3 | 3 | |
| 1981 | | 0 | 0 | 3 | 3 | |
| 1988 | | 11 | 5 | 0 | 16 | 45.5 |
| 1991 | | 13 | 2 | 0 | 15 | 15.4 |

Table 1 Continued

| Inclusive location | Year | Adults | Kids | Unknown | Total | Kids/100 adults |
|---|-------------------|--------|------|---------|-------|-----------------|
| | 1995 | 30 | 3 | 0 | 33 | 10.0 |
| | 2001 | 26 | 8 | 0 | 34 | 30.8 |
| West Cabinet Range, GMU 1 | | | | | | |
| Wiggletail to W. Fk. Blue Cr. | 1971 | 0 | 0 | 0 | 0 | 0.0 |
| | 1979 ^d | 9 | 2 | 0 | 11 | 22.2 |
| | 1981 | 0 | 0 | 0 | 0 | 0.0 |
| | 1988 | 23 | 1 | 0 | 24 | 4.3 |
| | 1991 | 11 | 1 | 0 | 12 | 9.1 |
| | 1993 | 11 | 2 | 0 | 13 | 18.2 |
| | 1998 ^e | 11 | 3 | 0 | 14 | 27.3 |
| | 2001 | 3 | 0 | 0 | 3 | 0.0 |
| Regal to Sam Morris Creek | 1971 | 0 | 0 | 0 | 0 | 0.0 |
| | 1981 | 0 | 0 | 0 | 0 | 0.0 |
| | 1988 | 0 | 0 | 0 | 0 | 0.0 |
| | 1991 | 0 | 0 | 0 | 0 | 0.0 |
| | 1993 | 2 | 0 | 0 | 2 | 0.0 |
| | 1998 ^e | 5 | 0 | 0 | 5 | 0.0 |
| | 2001 | 2 | 0 | 0 | 2 | 0.0 |
| East Fork Lightning Creek (Includes Savage and Char) | 1971 | 0 | 0 | 5 | 5 | |
| | 1981 | 3 | 0 | 0 | 3 | 0.0 |
| | 1988 | 20 | 3 | 0 | 23 | 15.0 |
| | 1991 | 4 | 3 | 0 | 7 | 75.0 |
| | 1993 | 12 | 5 | 0 | 17 | 41.7 |
| | 1998 ^e | 11 | 1 | 0 | 12 | 9.1 |
| | 2001 | 9 | 1 | 0 | 10 | 11.1 |
| West Cabinet (Idaho Only) | 1971 | 0 | 0 | 5 | 5 | |
| | 1981 | 3 | 0 | 0 | 3 | 0.0 |
| | 1988 | 43 | 4 | 0 | 47 | 9.3 |
| | 1991 | 15 | 4 | 0 | 19 | 26.7 |
| | 1993 | 25 | 7 | 0 | 32 | 28.0 |
| | 1998 ^e | 27 | 4 | 0 | 31 | 14.8 |
| | 2001 | 14 | 1 | 0 | 15 | 7.1 |

^a Summer estimates from ground surveys.

^b Includes 20 mountain goats estimated in the Pack River-Myrtle Creek area and 10 mountain goats on Snowytop Mountain. Both areas were flown 1971 and 2001 winters with neither tracks nor mountain goats observed. The Pack River-Myrtle Creek area was flown winters 1963 and 1981 as well, with no tracks nor mountain goats observed.

^c Not specifically mentioned in the survey.

^d Montana Fish, Wildlife and Parks data, August survey.

^e August survey of summer range.

Table 2. Mountain goat surveys, GMU 4A, Panhandle Region, 1973-2001.

| Inclusive location | Year | Adults | Kids | Unknown | Total | Kids/100 adults |
|---------------------------------|-------------------------|--------|------|---------|-------|-----------------|
| Pend Oreille Population, GMU 4A | | | | | | |
| Buttonhook to Lakeside | 1973 | 11 | 3 | 0 | 14 | 27.3 |
| | 1975 ^a | 31 | 12 | 0 | 43 | 38.7 |
| | 1976 | 16 | 3 | 0 | 19 | 18.8 |
| | 1981 | 30 | 7 | 0 | 37 | 23.3 |
| | 1985 ^b | 42 | 10 | 0 | 52 | 23.8 |
| | 1991 | 9 | 4 | 0 | 13 | 44.4 |
| | 1991 ^c | 11 | 7 | 0 | 18 | 63.6 |
| | 1992 | 15 | 2 | 0 | 17 | 13.3 |
| | 1995 ^d | 13 | 2 | 0 | 15 | 15.4 |
| | 2001 | 27 | 4 | 0 | 31 | 14.8 |
| Green Monarchs | 1973 | 2 | 0 | 0 | 2 | 0.0 |
| | 1975 ^a | 0 | 0 | 0 | 0 | 0.0 |
| | 1976 | 4 | 0 | 0 | 4 | 0.0 |
| | 1981 | 2 | 0 | 0 | 2 | 0.0 |
| | 1991 | 2 | 0 | 0 | 2 | 0.0 |
| | 1991 ^c | 0 | 0 | 0 | 0 | 0.0 |
| | 1992 | 0 | 0 | 0 | 0 | 0.0 |
| | 1995 ^d | 0 | 0 | 0 | 0 | 0.0 |
| | 2001 | 0 | 0 | 0 | 0 | 0.0 |
| | Pend Oreille population | 1973 | 13 | 3 | 0 | 16 |
| 1975 ^a | | 31 | 12 | 0 | 43 | 38.7 |
| 1976 | | 20 | 3 | 0 | 23 | 15.0 |
| 1981 | | 32 | 7 | 0 | 39 | 21.9 |
| 1985 ^b | | 42 | 10 | 0 | 52 | 23.8 |
| 1991 | | 11 | 4 | 0 | 15 | 36.4 |
| 1991 ^c | | 11 | 7 | 0 | 18 | 63.6 |
| 1992 | | 15 | 2 | 0 | 17 | 13.3 |
| 1995 ^d | | 13 | 2 | 0 | 15 | 15.4 |
| 2001 | | 27 | 4 | 0 | 31 | 14.8 |

^a Ground survey.

^b Population estimate based on capture/recapture with ground surveys during spring.

^c Ground survey during October.

^d Helicopter survey during August.

Table 3. Mountain goat surveys, GMU 9, Panhandle Region, 1957-2001.

| Inclusive location | Year | Adults | Kids | Unknown | Total | Kids/100 adults |
|--|-------------------|--------|------|---------|-------|-----------------|
| Little North Fork of the Clearwater River, GMU 9 | | | | | | |
| Hoodoo Peak to Spotted Louis | 1957 | 2 | 0 | 0 | 2 | 0.0 |
| | 1958 | 6 | 0 | 0 | 6 | 0.0 |
| | 1961 | 0 | 0 | 0 | 0 | 0.0 |
| | 1964 | 2 | 0 | 0 | 2 | 0.0 |
| | 1965 | 0 | 0 | 3 | 3 | |
| | 1966 | 0 | 0 | 1 | 1 | |
| | 1971 | 0 | 0 | 3 | 3 | |
| | 1972 | 0 | 0 | 0 | 0 | 0.0 |
| | 1976 | 4 | 0 | 0 | 4 | 0.0 |
| | 1979 ^a | | | | | |
| | 1981 | 4 | 0 | 0 | 4 | 0.0 |
| | 1988 | 15 | 5 | 0 | 20 | 33.3 |
| | 1991 | 4 | 3 | 0 | 7 | 75.0 |
| | 1993 | 3 | 0 | 0 | 3 | 0.0 |
| | 2001 | 4 | 2 | 0 | 6 | 50.0 |
| Culdesac to Canyon Creek | 1957 | 53 | 3 | 0 | 56 | 5.7 |
| | 1958 | 27 | 6 | 0 | 33 | 22.2 |
| | 1961 | 27 | 3 | 0 | 30 | 11.1 |
| | 1964 | 41 | 4 | 0 | 45 | 9.8 |
| | 1965 | 0 | 0 | 49 | 49 | |
| | 1966 | 0 | 0 | 43 | 43 | |
| | 1971 | 0 | 0 | 29 | 29 | |
| | 1972 | 0 | 0 | 18 | 18 | |
| | 1976 | 24 | 8 | 0 | 32 | 33.3 |
| | 1979 ^a | 32 | 5 | 0 | 37 | 15.6 |
| | 1981 | 48 | 8 | 0 | 56 | 16.7 |
| | 1988 | 26 | 2 | 0 | 28 | 7.7 |
| | 1991 ^b | 13 | 3 | 0 | 16 | 23.1 |
| | 1993 | 23 | 8 | 0 | 31 | 34.8 |
| | 2001 | 18 | 6 | 0 | 24 | 33.3 |
| Sawtooth Creek | 1957 | 26 | 7 | 0 | 33 | 26.9 |
| | 1958 | 17 | 4 | 0 | 21 | 23.5 |
| | 1961 | 20 | 5 | 0 | 25 | 25.0 |
| | 1964 | 12 | 1 | 0 | 13 | 8.3 |
| | 1965 | 0 | 0 | 10 | 10 | |
| | 1966 | 0 | 0 | 13 | 13 | |
| | 1971 | 0 | 0 | 4 | 4 | |
| | 1972 | 0 | 0 | 9 | 9 | |
| | 1976 | 8 | 0 | 0 | 8 | 0.0 |
| | 1979 ^a | | | | | |
| | 1981 | 5 | 0 | 0 | 5 | 0.0 |
| | 1988 | 7 | 2 | 0 | 9 | 28.6 |
| | 1991 | 9 | 1 | 0 | 10 | 11.1 |
| | 1993 | 6 | 2 | 0 | 8 | 33.3 |
| | 2001 | 9 | 0 | 0 | 9 | 0.0 |
| Foehl Creek | 1957 | 0 | 0 | 0 | 0 | 0.0 |
| | 1958 | 0 | 0 | 0 | 0 | 0.0 |
| | 1961 | 9 | 5 | 0 | 14 | 55.6 |
| | 1964 | 17 | 0 | 0 | 17 | 0.0 |
| | 1965 | 0 | 0 | 7 | 7 | |
| | 1966 | 0 | 0 | 0 | 0 | 0.0 |

Table 3 Continued

| Inclusive location | Year | Adults | Kids | Unknown | Total | Kids/100 adults |
|---|-------------------|--------|------|---------|-------|-----------------|
| Larkin to Devil's Club Creek | 1971 | 0 | 0 | 0 | 0 | 0.0 |
| | 1972 | 0 | 0 | 2 | 2 | |
| | 1976 | 0 | 0 | 0 | 0 | 0.0 |
| | 1979 ^a | | | | | |
| | 1981 | 3 | 1 | 0 | 4 | 33.3 |
| | 1988 | 5 | 0 | 0 | 5 | 0.0 |
| | 1991 | 8 | 2 | 0 | 10 | 25.0 |
| | 1993 | 12 | 4 | 0 | 16 | 33.3 |
| | 2001 | 16 | 5 | 0 | 21 | 31.3 |
| | 1957 | 2 | 0 | 0 | 2 | 0.0 |
| | 1958 | 0 | 0 | 0 | 0 | 0.0 |
| | 1961 | 0 | 0 | 0 | 0 | 0.0 |
| | 1964 | 0 | 0 | 0 | 0 | 0.0 |
| | 1965 | 0 | 0 | 0 | 0 | 0.0 |
| | 1966 | 0 | 0 | 0 | 0 | 0.0 |
| | 1971 | 0 | 0 | 0 | 0 | 0.0 |
| | 1972 | 0 | 0 | 0 | 0 | 0.0 |
| | 1976 | 0 | 0 | 0 | 0 | 0.0 |
| | 1979 ^a | | | | | |
| | 1981 | 0 | 0 | 0 | 0 | 0.0 |
| 1988 | 1 | 0 | 0 | 1 | 0.0 | |
| 1991 | 0 | 0 | 0 | 0 | 0.0 | |
| 1993 | 1 | 1 | 0 | 2 | 100.0 | |
| 2001 | 0 | 0 | 0 | 0 | 0.0 | |
| Little North Fork Clearwater population | | | | | | |
| 1957 | 83 | 10 | 0 | 93 | 12.0 | |
| 1958 | 50 | 10 | 0 | 60 | 20.0 | |
| 1961 | 56 | 13 | 0 | 69 | 23.2 | |
| 1964 | 72 | 5 | 0 | 77 | 6.9 | |
| 1965 | 0 | 0 | 69 | 69 | | |
| 1966 | 0 | 0 | 57 | 57 | | |
| 1971 | 0 | 0 | 36 | 36 | | |
| 1972 | 0 | 0 | 29 | 29 | | |
| 1976 | 36 | 8 | 0 | 44 | 22.2 | |
| 1979 ^a | 32 | 5 | 0 | 37 | 15.6 | |
| 1981 | 60 | 9 | 0 | 69 | 15.0 | |
| 1988 | 54 | 9 | 0 | 63 | 16.7 | |
| 1991 ^b | 34 | 9 | 0 | 43 | 26.5 | |
| 1993 | 45 | 15 | 0 | 60 | 33.3 | |
| 2001 | 47 | 13 | 0 | 60 | 27.7 | |

^a Area flown only identified as "Snow Peak." It is unknown what area was actually flown.

^b Weather conditions precluded complete coverage of the Canyon Creek portion of the flight.

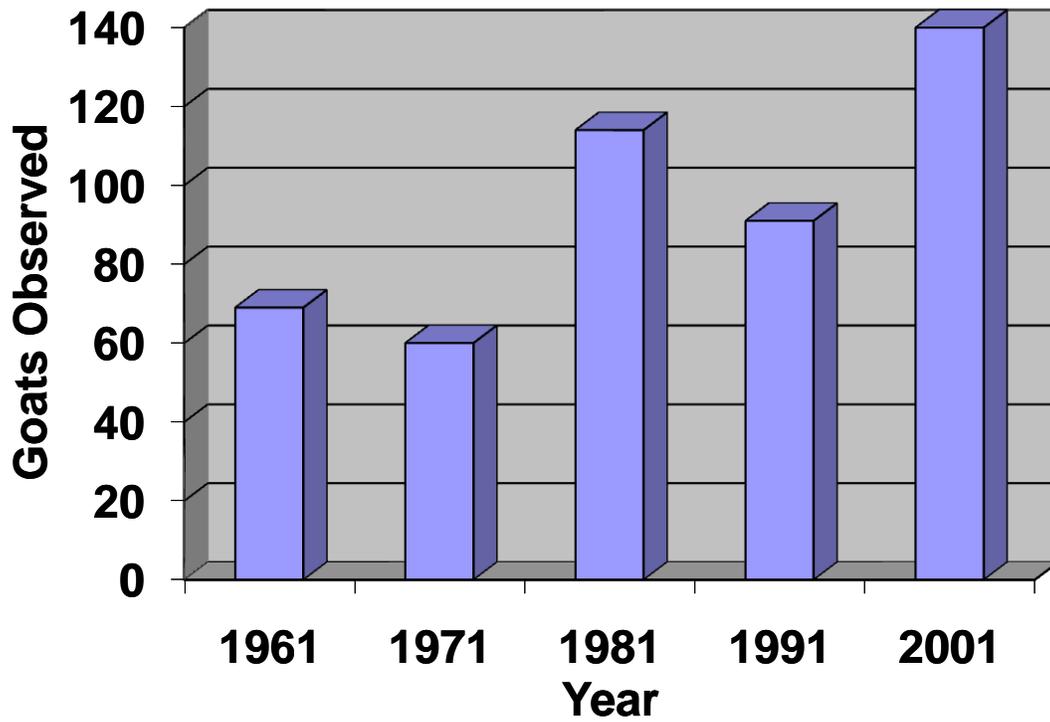


Figure 1. Comparison of aerial surveys for mountain goats, Panhandle Region, 1961-2001. Note: data from 1991 includes only a partial survey of Canyon Creek.

**PROGRESS REPORT
SURVEYS AND INVENTORY**

| | | | |
|---|-------------------|--------------------|------------------------------------|
| STATE: | <u>Idaho</u> | JOB TITLE: | <u>Mountain Goat Surveys and</u> |
| PROJECT: | <u>W-170-R-34</u> | | <u>Inventories</u> |
| SUBPROJECT: | <u>2</u> | STUDY NAME: | <u>Big Game Population Status,</u> |
| STUDY: | <u>1</u> | | <u>Trends, Use, and Associated</u> |
| JOB: | <u>5</u> | | <u>Habitat Studies</u> |
| PERIOD COVERED: <u>July 1, 2009 to June 30, 2010</u> | | | |

CLEARWATER REGION

Abstract

Current management direction allows for limited-entry hunting of mountain goats with conservative permit levels. Many of the mountain goat hunt areas in Clearwater Region remain closed because of low population levels or loss of mountain goats entirely from previously occupied range. Translocation to reestablish or augment populations in these areas continues to be a high priority. During March 2003, 16 mountain goats were captured in GMU 18 and translocated into GMU 20 (Sheep Hill). During controlled hunts in 2009, 6 permittees harvested 6 mountain goats. The most recent paintball mark-resight survey revealed population estimates of 100 ± 7 adult mountain goats in Hunt Area 10. A previous mark-resight survey in April 2005 revealed 85 ± 17 adult mountain goats in Hunt Area 10.

Management Direction

Goals for managing mountain goats in GMUs 10, 12, 14, 15, 16, 16A, 17, 18, 19, and 20 include increasing populations through conservative hunting seasons, capturing and translocation into vacant habitat or to augment existing populations, maintaining harvest and recreational opportunity, emphasizing non-consumptive values, inventorying all mountain goat populations at a maximum interval of 5 years, and collecting information on mountain goat diseases.

Climatic Conditions

The Clearwater Region experienced below average snowfall for the 2009-2010 water year. According to the United States Department of Agriculture Natural Resources Conservation Service, the snow water content for the Clearwater basin was 55% of normal as of 1 April. Data from SNOTEL sites indicates that snowpack varied from 53-59% of normal for the North Fork Clearwater, Lochsa, and Selway River watersheds. The dry trend of previous months continued through March until the end of the month when high elevations received 1-3 inches of precipitation and up to 2 feet of snow. Streamflow forecasts were correspondingly low, ranging from 50-61% of normal. The Lochsa and Selway rivers received the highest stream flow forecasts while the North Fork Clearwater River was forecast at only 50% of normal. Dworshak reservoir was 67% full, at 103% of average for March.

April and May received 123% of normal precipitation, bolstering snowpack at higher elevations and delaying snowmelt. As of 1 June, the snowpack in the Clearwater basin was 62% of average with precipitation at 74% of average, indicating just how dry this winter was. Dworshak reservoir was 90% full as of 1 June. Streamflow forecasts for the North Fork Clearwater, Lochsa, and Selway rivers were still low, estimated to be about 60% of normal levels.

Background

Historically, mountain goats were hunted on a general-hunt basis in Idaho north of Salmon River. As a result, some of the easily accessible herds were over-hunted or eliminated. From 1966 to present, all mountain goat hunts have been offered as controlled hunts. Hunt areas were originally quite large, often including several discrete populations of mountain goats. In general, the more accessible populations still received the brunt of the harvest. In 1972, hunts were divided into smaller, more easily manageable controlled hunts to control and more evenly distribute hunting pressure.

Permit numbers were reduced from 20 hunts with 51 permits in 1977 to 3 hunts with 6 permits in 1984, then increased to 4 hunts with 12 permits in 1989. In 2003, this was reduced to 3 hunts with 8 permits. Beginning in 2007, only 2 hunts with 6 permits were offered in the region (Appendix A).

GMUs 10, 12, 15, 16, 16A, 17

Controlled Hunt Area 10

Population Surveys

GMUs 12 and 17 have not been surveyed since 1994 and 1996, respectively (Table 1). During April and May 2010, a paintball, mark-resight survey of the Black Mountain (GMU 10) goat population was conducted. Data suggest a slight increase since the last survey in 2005 (Table 1). At that time, 85 ± 17 mountain goats were observed over both hunt areas compared to 100 ± 7 in 2010. Additionally, a survey was conducted in the old Blacklead hunt area [S.F. Kelly Creek to Williams Creek (GMU 10) and Boulder Creek/Crooked Fork (GMU 12)] where 47 goats were observed. In 1996, 136 mountain goats were observed over both hunt areas prompting the decision to suspend future translocation removals.

Harvest Characteristics

Harvest levels have changed little during the last 10-year period (Table 2). For the 2007 season, Hunt Areas 10-1 and 10-2 were combined into 1 hunt area (Hunt Area 10) and permits reduced from 4 to 2. During 2009, 2 of 2 permittees were successful in Hunt Area 10 (Table 3). Drawing odds for the GMU 10 hunt were 1:27 in 2008 and 1:21 in 2009. GMU 12 was closed to mountain goat hunting in 1997 due to the decline in mountain goat numbers revealed by the 1996 survey.

Habitat Conditions

Mountain goat habitat in GMUs 10, 12, 15, 16, 16A, and 17 is located mainly along the Idaho-Montana border and in rocky cliffs of North Fork Clearwater, Lochsa, and Selway river drainages. Nearly all of the areas that support mountain goats are under U.S. Forest Service (USFS) ownership and management. Some commercial timberlands are located near mountain goat habitat; however, the majority of mountain goat habitat is in designated wilderness.

Capture and Translocation

Since 1962, mountain goats have been captured on several occasions on Black Mountain (Clearwater Region) and Snow Peak (Panhandle Region) to provide stock for translocation within the state. Clearwater Region began capturing mountain goats in the Seven Devils range in 1999 with helicopter darting. From 1962 to 2003, 102 mountain goats were translocated in Clearwater Region (Table 4). Plans to capture mountain goats at Black Mountain in 2000 were canceled because of the population decline revealed by the 2000 survey.

Management Implications

Lack of population growth in Hunt Area 10 will lead to more conservative and cautious management of exploitation. Current harvest levels (5-year average = 3.0 mountain goats/year) are below the maximum Mountain Goat Management Plan level of 5% (5 mountain goats). However, it is unlikely that removal of additional mountain goats for translocation would be practical or prudent. Trapping will be suspended until future surveys reveal a positive growth trend and sufficient numbers to sustain removals. Permit levels in Hunt Area 10 will remain conservative to avoid over-exploitation.

In other areas where populations have been severely reduced, hunts will not be offered until those populations recover to satisfactory levels and exhibit an acceptable level of population growth. Translocation into areas where mountain goats are absent or severely reduced in numbers will continue as mountain goats become available.

GMUs 14, 18, 19, 20

Controlled Hunt Area 18

Population Surveys

A paintball mark-resight survey was conducted in Hunt Area 18 (GMUs 18 and 22) in April and May 2007. An estimate of 194 ± 29 (90% bound) goats was obtained. Using the same technique in 2002 generated an estimate of 196 ± 22 (90% bound) goats in Hunt Area 18, suggesting a potential increase in abundance from the 1999 estimate of 171 ± 48 (Table 5). However, the 1999 estimate was imprecise, and there was concern over potential bias caused by questionable ability to identify marks. The trend in Hunt Area 18 appears to be stable.

GMUs 19 and 20 have not been surveyed since 1993 (Table 5).

Harvest Characteristics

Five permits were offered each year in Hunt Area 18 from 1983 to 2002. In 2003, permit numbers were reduced to 4 (Appendix A). Many of the mountain goat hunts remained closed in 2010 because of low population levels or absence of mountain goats (see Clearwater Region portion of the Department's 1986-1991 Mountain Goat Management Plan). Drawing odds for Hunt Area 18 were 1:18 in 2008, and 1:24 in 2009. In 2009, the 4 permittees harvested 4 mountain goats (Table 3).

Habitat Conditions

The deep, rugged canyons of the Snake and Salmon rivers dominate the topography of GMUs 14, 18, 19, and 20. Mountain goat populations in this area are found almost exclusively in habitat designated as wilderness and managed by USFS. Mountain goats in GMU 18 are found in the Seven Devils area, while those in GMUs 19 and 20 are found on the breaks of the Salmon River in the Gospel Hump and Frank Church River-of-No-Return wilderness areas. Habitats in both areas are generally drier and more open than mountain goat habitat found in GMUs 10 and 17.

Capture and Translocation

Twenty-five mountain goats captured at Snow Peak, GMU 9, and at Olympic National Park, Washington, have been translocated into GMU 18 since 1962 (Table 4). With growth in the mountain goat population in the Seven Devils area, the Dry Diggins lookout was evaluated as a potential capture site for mountain goats as early as 1987. Subsequent efforts with clover traps in 1991 and 1993 resulted in the capture of only 1 mountain goat.

Mountain goats were captured in GMU 18 with darts fired from a helicopter in 1999, 2001, and 2003. Capture efforts were patterned after the protocol at Olympic National Park where over 300 mountain goats had been captured and removed via darting with the drug Carfentanil. Given the mark-resight estimates of population size and a reasonably conservative approach to exploitation rates, it was determined that up to 12 mountain goats (6 nannies) could be removed every other year for translocation.

Eighteen goats were captured and subsequently released along Big Mallard Creek in GMU 20 in 1999 and 2001. Ten of the goats were collared with radio transmitters. Of these, 8 have died since release while the remaining 2 radio transmitters have gone inactive. Sixteen goats were captured and translocated in 2003 to Sheep Hill in GMU 20. Six were released with radio transmitters that are no longer active.

Management Implications

Given the Mountain Goat Management Plan guidelines and the 2002 Hunt Area 18 mark-resight population estimate, with continued harvest, up to 12 mountain goats (6 nannies) could be

available for removal for translocation every other year. The total exploitation level would be at 5%.

In other areas where populations have been severely reduced, no hunts will be offered until those populations recover to satisfactory levels. Translocation to reestablish or augment populations will continue as mountain goats become available.

Table 1. Mountain goat surveys, GMUs 10, 12, and 17, Clearwater Region, 1981-present.

| GMU | Year | Inclusive location | Adults | Kids | Total | Kids/100 adults |
|----------------------|-------------------|------------------------------------|--------|--------|-------|-----------------|
| 10 | 1991 | Flat Mtn to Elizabeth Mtn | 14 | 3 | 17 | 21.4 |
| | | Pot Mountain | 2 | 0 | 2 | 0.0 |
| | | Moose Mountain | 27 | 1 | 28 | 3.7 |
| | | S.F. Kelly Creek to Williams Creek | 34 | 6 | 40 | 17.6 |
| | | Isabella Creek (10-1) | 50 | 13 | 63 | 26.0 |
| | | Collins to Quartz Creek (10-2) | 73 | 15 | 88 | 20.5 |
| | | 1991 Total | 200 | 38 | 238 | 19.0 |
| | 1996 | Flat Mtn to Elizabeth Mtn | 12 | 1 | 13 | 8.3 |
| | | Pot Mountain | 4 | 0 | 4 | 0.0 |
| | | Moose Mountain | 24 | 3 | 27 | 12.5 |
| | | S.F. Kelly Creek to Williams Creek | 14 | 0 | 14 | 0.0 |
| | | Isabella Creek (10-1) | 48 | 13 | 61 | 27.1 |
| | | Collins to Quartz Creek (10-2) | 61 | 14 | 75 | 23.0 |
| | | 1996 Total | 163 | 31 | 194 | 19.0 |
| | 2002 ^a | Isabella Creek (10-1) | 54±12 | | 54±12 | |
| | | Collins to Quartz Creek (10-2) | 44±5 | | 44±5 | |
| | 2005 ^a | Isabella Creek (10-1) | 38±6 | | 38±6 | |
| | 2010 | Collins to Quartz Creek (10-2) | 47±18 | | 47±18 | |
| | | Pot Mountain ^c | 6 | 2 | 8 | 33.3 |
| | | S.F. Kelly Creek to Williams Ck | 39 | 8 | 47 | 20.5 |
| | | Isabella to Quartz Creek (10) | 101±7 | | 101±7 | |
| 2010 Total | | 193±12 | 10 | 203±12 | 26.9 | |
| 12 | 1981 | Old Man Creek | 18 | 3 | 21 | 16.7 |
| | | Boulder Creek | 9 | 3 | 12 | 33.3 |
| | | Noseeum Creek | 6 | 2 | 8 | 33.3 |
| | | Skookum Creek | 2 | 0 | 2 | 0.0 |
| | | Grave Butte | 2 | 0 | 2 | 0.0 |
| | | Stanley Creek | 5 | 1 | 6 | 20.0 |
| | | Lone Knob | 1 | 0 | 1 | 0.0 |
| | | Squaw Creek | 2 | 0 | 2 | 0.0 |
| | | Fish Creek ^b | | | | |
| | | Boulder/Crooked Fork | 4 | 1 | 5 | 25.0 |
| | 1981 Total | 49 | 10 | 59 | 20.4 | |
| | 1987 | Old Man Creek | 18 | 4 | 22 | 22.2 |
| | | Boulder Creek | 9 | 1 | 10 | 11.1 |
| | | Noseeum Creek | 11 | 3 | 14 | 27.3 |
| | | Skookum Creek | 6 | 0 | 6 | 0.0 |
| | | Grave Butte | 0 | 0 | 0 | 0.0 |
| | | Stanley Creek | 5 | 0 | 5 | 0.0 |
| | | Lone Knob ^b | | | | |
| | | Squaw Creek | 8 | 6 | 14 | 75.0 |
| | | Fish Creek | 1 | 0 | 1 | 0.0 |
| Boulder/Crooked Fork | | 10 | 3 | 13 | 30.0 | |

Table 1. Continued.

| GMU | Year | Inclusive location | Adults | Kids | Total | Kids/100 adults |
|-----|------|--|--------|------|-------|-----------------|
| | | 1987 Total | 68 | 17 | 85 | 25.0 |
| | 1996 | Old Man Creek | 21 | 3 | 24 | 14.3 |
| | | Boulder Creek | 0 | 0 | 0 | 0.0 |
| | | Noseeum Creek | 3 | 0 | 3 | 0.0 |
| | | Skookum Creek | 2 | 1 | 3 | 50.0 |
| | | Grave Butte | 0 | 0 | 0 | 0.0 |
| | | Stanley Creek | 4 | 0 | 4 | 0.0 |
| | | Lone Knob | 0 | 0 | 0 | 0.0 |
| | | Squaw Creek | 11 | 0 | 11 | 0.0 |
| | | Fish Creek | 0 | 0 | 0 | 0.0 |
| | | Boulder/Crooked Fork | 2 | 1 | 3 | 50.0 |
| | | 1996 Total | 43 | 5 | 48 | 11.6 |
| 17 | 1991 | E.F. Moose Creek | 25 | 7 | 32 | 28.0 |
| | | White Cap Creek | 23 | 6 | 29 | 26.1 |
| | | Canyon Creek | 21 | 12 | 33 | 57.1 |
| | | Copper Creek | 3 | 0 | 3 | 0.0 |
| | | Paradise Creek | 8 | 0 | 8 | 0.0 |
| | | Cub Creek | 10 | 5 | 15 | 50.0 |
| | | Brushy Fork Creek | 10 | 5 | 15 | 50.0 |
| | | Bear Creek | 4 | 3 | 7 | 75.0 |
| | | Upper Selway (above Magruder Crossing) | 14 | 5 | 19 | 35.7 |
| | | Little Clearwater R to Echo Creek | 4 | 1 | 5 | 25.0 |
| | | Snake Creek | 0 | 0 | 0 | 0.0 |
| | | Goat Creek ^b | | | | |
| | | Grouse Creek/Running Creek | 0 | 0 | 0 | 0.0 |
| | | Stewart Creek | 0 | 0 | 0 | 0.0 |
| | | 1991 Total | 122 | 44 | 166 | 36.1 |
| | 1994 | E.F. Moose Creek | 25 | 5 | 30 | 20.0 |
| | | White Cap Creek | 25 | 2 | 27 | 8.0 |
| | | Canyon Creek | 14 | 6 | 20 | 42.9 |
| | | Copper Creek | 0 | 0 | 0 | 0.0 |
| | | Paradise Creek | 4 | 0 | 4 | 0.0 |
| | | Cub Creek | 3 | 0 | 3 | 0.0 |
| | | Brushy Fork Creek | 12 | 4 | 16 | 33.3 |
| | | Bear Creek | 9 | 2 | 11 | 22.2 |
| | | Upper Selway (above Magruder Crossing) | 16 | 2 | 18 | 12.5 |
| | | Little Clearwater R to Echo Creek | 6 | 0 | 6 | 0.0 |
| | | Snake Creek | 1 | 0 | 1 | 0.0 |
| | | Goat Creek | 11 | 3 | 14 | 27.3 |
| | | Grouse Creek/Running Creek | 0 | 0 | 0 | 0.0 |
| | | Stewart Creek | 1 | 0 | 1 | 0.0 |
| | | 1994 Total | 127 | 24 | 151 | 18.9 |

^a Paintball mark-resight survey (Apr-May).

^b Drainage not included in survey.

Table 2. Mountain goat harvest and drawing odds, Clearwater Region, 1983-present.

| Year | Permits | Harvest | | | Hunter success (%) | First-choice applicants | Drawing odds |
|------|---------|---------|---|-------|--------------------|-------------------------|--------------|
| | | M | F | Total | | | |
| 1983 | 11 | 8 | 3 | 11 | 100 | 207 | 1:18.8 |
| 1984 | 11 | 5 | 2 | 7 | 64 | 265 | 1:24.1 |
| 1985 | 11 | 6 | 4 | 10 | 91 | 288 | 1:26.2 |
| 1986 | 11 | 6 | 4 | 10 | 91 | 129 | 1:11.7 |
| 1987 | 11 | 6 | 5 | 11 | 100 | 102 | 1:9.3 |
| 1988 | 11 | 8 | 3 | 11 | 100 | 135 | 1:12.3 |
| 1989 | 12 | 6 | 4 | 10 | 83 | 104 | 1:8.7 |
| 1990 | 12 | 7 | 3 | 10 | 83 | 119 | 1:9.9 |
| 1991 | 12 | 6 | 4 | 10 | 83 | 117 | 1:9.8 |
| 1992 | 12 | 5 | 3 | 8 | 67 | 103 | 1:8.6 |
| 1993 | 12 | 5 | 7 | 12 | 100 | 125 | 1:10.4 |
| 1994 | 12 | 5 | 5 | 10 | 83 | 112 | 1:9.3 |
| 1995 | 12 | 6 | 4 | 10 | 83 | 130 | 1:10.8 |
| 1996 | 12 | 5 | 4 | 9 | 75 | 119 | 1:9.9 |
| 1997 | 9 | 5 | 4 | 9 | 100 | 132 | 1:14.7 |
| 1998 | 9 | 4 | 4 | 8 | 89 | 140 | 1:15.6 |
| 1999 | 9 | 5 | 4 | 9 | 100 | 121 | 1:13.4 |
| 2000 | 9 | 5 | 2 | 7 | 78 | 104 | 1:11.6 |
| 2001 | 9 | 6 | 2 | 8 | 89 | 108 | 1:12.0 |
| 2002 | 9 | 3 | 4 | 7 | 78 | 140 | 1:15.6 |
| 2003 | 8 | 3 | 2 | 5 | 63 | 125 | 1:15.6 |
| 2004 | 8 | 3 | 3 | 6 | 75 | 118 | 1:14.8 |
| 2005 | 8 | 6 | 0 | 6 | 75 | 129 | 1:16.1 |
| 2006 | 8 | 6 | 0 | 6 | 75 | 134 | 1:16.8 |
| 2007 | 6 | 4 | 1 | 5 | 83 | 118 | 1:19.7 |
| 2008 | 6 | 1 | 4 | 5 | 83 | 127 | 1:21.2 |
| 2009 | 6 | 5 | 1 | 6 | 100 | 139 | 1:23.2 |

Table 3. Mountain goat harvest and drawing odds by hunt area, Clearwater Region, 1997-present.

| Hunt area | Year | Permits | Harvest | | Hunter success (%) | Days/hunter ^a | First-choice applicants | Drawing odds |
|-----------|------|---------|---------|-----|--------------------|--------------------------|-------------------------|--------------|
| | | | M | F | | | | |
| 10-1 | 1997 | 2 | 2 | 0 | 100 | 3.5 | 39 | 1:19.5 |
| | 1998 | 2 | 1 | 0 | 50 | 2.0 | 42 | 1:21.0 |
| | 1999 | 2 | 1 | 1 | 100 | 9.0 | 33 | 1:16.5 |
| | 2000 | 2 | 1 | 0 | 50 | 1.0 | 26 | 1:13.0 |
| | 2001 | 2 | 2 | 0 | 100 | 8.0 | 31 | 1:15.5 |
| | 2002 | 2 | 2 | 0 | 100 | 9.0 | 50 | 1:25.0 |
| | 2003 | 2 | 1 | 0 | 50 | 7.0 | 42 | 1:21.0 |
| | 2004 | 2 | 1 | 0 | 50 | 14.0 | 43 | 1:21.5 |
| | 2005 | 2 | 1 | 0 | 50 | 8.5 | 41 | 1:20.5 |
| | 2006 | 2 | 1 | 0 | 50 | 1.0 | 46 | 1:23.0 |
| 10-2 | 1997 | 2 | 0 | 2 | 100 | 2.5 | 29 | 1:14.5 |
| | 1998 | 2 | 2 | 0 | 100 | 1.5 | 27 | 1:13.5 |
| | 1999 | 2 | 1 | 1 | 100 | 11.0 | 24 | 1:12.0 |
| | 2000 | 2 | 1 | 1 | 100 | 5.0 | 27 | 1:13.0 |
| | 2001 | 2 | 1 | 1 | 100 | 4.5 | 17 | 1:8.5 |
| | 2002 | 2 | 0 | 1 | 50 | 20.0 | 27 | 1:13.5 |
| | 2003 | 2 | 0 | 1 | 50 | 9.0 | 28 | 1:14.0 |
| | 2004 | 2 | 1 | 1 | 100 | 5.5 | 27 | 1:13.5 |
| | 2005 | 2 | 2 | 0 | 100 | 3.0 | 34 | 1:17.0 |
| | 2006 | 2 | 2 | 0 | 100 | 12 | 35 | 1:17.5 |
| 10 | 2007 | 2 | 1 | 1 | 100 | 3.0 | 60 | 1:30.0 |
| | 2008 | 2 | 0 | 1 | 50 | 8.0 | 54 | 1:27.0 |
| | 2009 | 2 | 2 | 0 | 100 | 1.5 | 43 | 1:21.5 |
| 18 | 1997 | 5 | 3 | 2 | 100 | 4.4 | 64 | 1:12.8 |
| | 1998 | 5 | 1 | 4 | 100 | 3.0 | 71 | 1:14.2 |
| | 1999 | 5 | 3 | 2 | 100 | 1.4 | 64 | 1:12.8 |
| | 2000 | 5 | 3 | 1 | 80 | 12.0 | 51 | 1:10.2 |
| | 2001 | 5 | 3 | 1 | 80 | 1.0 | 60 | 1:12.0 |
| | 2002 | 5 | 1 | 3 | 80 | 2.5 | 63 | 1:12.6 |
| | 2003 | 4 | 2 | 1 | 75 | 2.3 | 55 | 1:13.8 |
| | 2004 | 4 | 1 | 2 | 75 | 4.0 | 48 | 1:12.0 |
| | 2005 | 4 | 3 | 0 | 75 | 9.0 | 54 | 1:13.5 |
| | 2006 | 4 | 3 | 0 | 75 | 6.7 | 53 | 1:13.2 |
| | 2007 | 4 | 3 | 0 | 75 | 2.0 | 58 | 1:14.5 |
| | 2008 | 4 | 1 | 3 | 100 | 1.75 | 73 | 1:18.0 |
| 2009 | 4 | 3 | 1 | 100 | 3.0 | 96 | 1:24.0 | |

Table 4. Mountain goat translocation, Clearwater Region, 1962-2003.

| Year | Capture site-GMU | Release site-GMU | Adults | | Kids | | Total |
|------|------------------|----------------------|--------|---|------|---|-------|
| | | | M | F | M | F | |
| 1962 | Snow Peak-9 | Seven Devils-18 | 2 | 4 | 2 | 0 | 8 |
| 1964 | Snow Peak-9 | Seven Devils-18 | 2 | 5 | 0 | 2 | 9 |
| 1966 | Snow Peak-9 | Dome Hill-15 | 3 | 1 | 0 | 0 | 4 |
| | Black Mtn-9A | Dome Hill-15 | 1 | 3 | 0 | 0 | 4 |
| 1967 | Black Mtn-9A | Dome Hill-15 | 1 | 2 | 0 | 0 | 3 |
| 1986 | Black Mtn-9A | Boulder Creek-12 | 2 | 5 | 0 | 0 | 7 |
| 1987 | Snow Peak-9 | Oregon Butte-19 | 0 | 8 | 0 | 0 | 8 |
| | Black Mtn-9A | Oregon Butte-19 | 2 | 2 | 0 | 0 | 4 |
| 1989 | Olympic NP, WA | Seven Devils-18 | 8 | 0 | 0 | 0 | 8 |
| 1991 | Black Mtn-10 | Ship Island Cr-27 | 4 | 4 | 0 | 0 | 8 |
| 1994 | Black Mtn-10 | Big Squaw Cr-20 | 4 | 4 | 0 | 0 | 8 |
| 1996 | Black Mtn-10 | Big Squaw Cr-20 | 0 | 1 | 0 | 0 | 1 |
| 1998 | Black Mtn-10 | Johns Creek-15 | 1 | 0 | 0 | 0 | 1 |
| | Black Mtn-10 | Big Squaw Cr-20 | 1 | 2 | 0 | 0 | 3 |
| 1999 | Seven Devils-18 | Big Mallard Falls-20 | 4 | 3 | 0 | 0 | 7 |
| 2001 | Seven Devils-18 | Big Mallard Falls-20 | 5 | 6 | 0 | 0 | 11 |
| 2003 | Seven Devils-18 | Sheep Hill-20 | 5 | 5 | 2 | 4 | 16 |

Table 5. Mountain goat surveys, GMUs 18, 19, and 20, Clearwater Region, 1981-present.

| GMU | Year | Inclusive location | Adults | Kids | Total | Kids/100 adults | |
|------------------------------|-------------------|----------------------------------|------------|-------|--------|-----------------|------|
| 18 | 1981 | Dry Gulch | 20 | 0 | 20 | 0.0 | |
| | | Bernard Creek | 29 | 4 | 33 | 13.8 | |
| | | Bernard Creek to Three Creek | 0 | 0 | 0 | 0.0 | |
| | | Sheep Creek | 3 | 0 | 3 | 0.0 | |
| | | Three Creek | 12 | 2 | 14 | 16.7 | |
| | | Granite Creek | 1 | 0 | 1 | 0.0 | |
| | | Three Creek to Granite Creek | 0 | 0 | 0 | 0.0 | |
| | | | 1981 Total | 65 | 6 | 71 | 9.2 |
| | 1987 | Dry Gulch | 0 | 0 | 0 | 0.0 | |
| | | Bernard Creek | 15 | 2 | 17 | 13.3 | |
| | | Bernard Creek to Three Creek | 28 | 7 | 35 | 25.0 | |
| | | Sheep Creek | 1 | 0 | 1 | 0.0 | |
| | | Three Creek | 3 | 0 | 3 | 0.0 | |
| | | Granite Creek | 19 | 3 | 22 | 15.8 | |
| | | Three Creek to Granite Creek | 4 | 0 | 4 | 0.0 | |
| | | | 1987 Total | 70 | 12 | 82 | 17.1 |
| | 1993 | Dry Gulch | 49 | 5 | 54 | 10.2 | |
| | | Bernard Creek | 3 | 2 | 5 | 66.7 | |
| | | Bernard Creek to Three Creek | 11 | 4 | 15 | 36.4 | |
| | | Sheep Creek | 1 | 0 | 1 | 0.0 | |
| | | Three Creek | 20 | 3 | 23 | 15.0 | |
| | | Granite Creek | 13 | 3 | 16 | 23.1 | |
| | | Three Creek to Granite Creek | 20 | 3 | 23 | 15.0 | |
| | | | 1993 Total | 117 | 20 | 137 | 17.1 |
| | 1996 | Dry Gulch | 0 | 0 | 0 | 0.0 | |
| | | Bernard Creek | 19 | 1 | 20 | 5.3 | |
| | | Bernard Creek to Three Creek | 12 | 1 | 13 | 8.3 | |
| Sheep Creek | | 4 | 0 | 4 | 0.0 | | |
| Three Creek | | 16 | 4 | 20 | 25.0 | | |
| Granite Creek | | 9 | 1 | 10 | 11.1 | | |
| Three Creek to Granite Creek | | 1 | 0 | 1 | 0.0 | | |
| | | 1996 Total | 61 | 7 | 68 | 11.5 | |
| | 1999 ^a | 1999 Total | 171±48 | 61±44 | 237±67 | 34.5 | |
| | 2002 | 2002 Total | 196±22 | | | | |
| | 2007 | 2007 Total | | | 194±29 | 11.9 | |
| 19 | 1982 | Wind River | 5 | 2 | 7 | 40.0 | |
| | | Crooked River | 7 | 1 | 8 | 14.3 | |
| | | Sheep Creek | 0 | 0 | 0 | 0.0 | |
| | | Elk Creek | 2 | 1 | 3 | 50.0 | |
| | | Upper Johnson Creek ^b | | | | | |
| | | | 1982 Total | 14 | 4 | 18 | 28.6 |
| | 1986 | Wind River | 1 | 0 | 1 | 0.0 | |
| | | Crooked River | 11 | 3 | 14 | 27.3 | |

Table 5. Continued.

| GMU | Year | Inclusive location | Adults | Kids | Total | Kids/100 adults |
|----------------|-------------------|----------------------------------|--------|------|-------|-----------------|
| 20 | 1993 | Sheep Creek | 24 | 9 | 33 | 37.5 |
| | | Elk Creek | 9 | 4 | 13 | 44.4 |
| | | Upper Johnson Creek ^b | | | | |
| | | 1986 Total | 45 | 16 | 61 | 35.6 |
| | | Wind River | 7 | 3 | 10 | 42.9 |
| | | Crooked River | 4 | 0 | 4 | 0.0 |
| | 1982 | Sheep Creek | 8 | 0 | 8 | 0.0 |
| | | Elk Creek | 2 | 0 | 2 | 0.0 |
| | | Upper Johnson Creek | 3 | 1 | 4 | 33.3 |
| | | 1993 Total | 24 | 4 | 28 | 16.7 |
| | | Blowout Creek | 2 | 0 | 2 | 0.0 |
| | | Rhett Creek | 10 | 4 | 14 | 40.0 |
| | 1987 | Sabe Creek | 10 | 3 | 13 | 30.0 |
| | | Rattlesnake Creek | 3 | 1 | 4 | 33.3 |
| | | Bargamin Creek | 2 | 0 | 2 | 0.0 |
| | | 1982 Total | 27 | 8 | 35 | 29.6 |
| | | Blowout Creek | 4 | 0 | 4 | 0.0 |
| | | Rhett Creek | 12 | 1 | 13 | 8.3 |
| | 1993 | Sabe Creek | 30 | 8 | 38 | 26.7 |
| | | Rattlesnake Creek | 2 | 0 | 2 | 0.0 |
| Bargamin Creek | | 2 | 0 | 2 | 0.0 | |
| 1987 Total | | 50 | 9 | 59 | 18.0 | |
| Blowout Creek | | 1 | 0 | 1 | 0.0 | |
| Rhett Creek | | 1 | 0 | 1 | 0.0 | |
| 1993 | Sabe Creek | 15 | 2 | 17 | 13.3 | |
| | Rattlesnake Creek | 2 | 0 | 2 | 0.0 | |
| | Bargamin Creek | 0 | 0 | 0 | 0.0 | |
| | 1993 Total | 19 | 2 | 21 | 10.5 | |

^a Paintball mark-resight estimates include all of Hunt Area 18 (GMUs 18 and 22).

^b Drainage not included in survey.

**PROGRESS REPORT
SURVEYS AND INVENTORY**

| | | | |
|---|-------------------|--------------------|------------------------------------|
| STATE: | <u>Idaho</u> | JOB TITLE: | <u>Mountain Goat Surveys and</u> |
| PROJECT: | <u>W-170-R-34</u> | | <u>Inventories</u> |
| SUBPROJECT: | <u>3, Nampa</u> | STUDY NAME: | <u>Big Game Population Status,</u> |
| STUDY: | <u>1</u> | | <u>Trends, Use, and Associated</u> |
| JOB: | <u>5</u> | | <u>Habitat Studies</u> |
| PERIOD COVERED: <u>July 1, 2009 to June 30, 2010</u> | | | |

SOUTHWEST (NAMPA) REGION

GMUs 33, 34, 35, 39

Controlled Hunt Area 39

Abstract

Mountain goat hunting had not been allowed in GMUs 35 or 39 from 1981 through 2004. A new hunt was created in 2005 with 2 permits in GMU 39. Both permits were filled in 2005, 2006, 2008 and 2009. One permit was filled in 2007.

Management Direction

Management will be consistent with the statewide management direction in the 1991-1995 Mountain Goat Management Plan.

Background

Historically, controlled hunts for mountain goats occurred in GMUs 35 and 39 until 1981. GMU 35 had 3 hunt areas with 15 any-weapon permits and 15 archery permits. Average annual harvest for the last 5 years of the hunt (1977-1981) was 8 mountain goats. GMU 39 had 3 hunt areas with 17 any-weapon permits. Average annual harvest for the last 5 years of the hunt was 7 mountain goats. Mountain goat seasons in both GMUs were discontinued between 1981 and 2004. A hunt with 2 permits was reopened in GMU 39 in 2005.

Population Surveys

No population surveys were conducted during this reporting period. The most recent population survey for this area was conducted from 29 January-2 February 2009, in parts of GMUs 35 and 39 (Table 1, refer to 2008 Mountain Goat PR report for location maps). We observed 103 mountain goats (82 adults, 18 kids, 3 yearlings) in GMU 35 and 130 mountain goats (104 adults, 21 kids, 5 yearlings) in GMU 39. The survey was conducted in a Bell 47 Soloy helicopter with a pilot and 2 observers. Surveys prior to 2004 in these areas were conducted during spring when

intermixed snow and green-up conditions persisted. The 2004 survey was conducted during winter following fresh snowfall when conditions were ideal. There was sufficient snow for the 2009 survey; however the lack of fresh snowfall in the previous week made tracking conditions more challenging.

Total number of mountain goats observed by area in 2009 varied widely in comparison to previous counts. Counts in the North Fork Boise River and Warm Springs Creek hunt areas were the highest in ≥ 20 years; however, populations in other hunt areas appeared to have declined or remained stable but at low levels (Atlanta, Steel Mountain, Grandjean/Head of South Fork Payette River, Tenmile Creek). During the summer 2003, wildfire burned through the forested habitat surrounding most mountain goat range in the North Fork Boise River and Steel Mountain areas. Habitat disturbance may have been responsible for the observed declines in these areas in 2004. No goats were detected in the Steel Mountain area in the 2009 survey, but goat numbers in the North Fork of the Boise River appeared to be back to historic levels.

Mountain goats were also detected in GMU 35 in areas not previously surveyed (Canyon Creek and Eightmile Creek). These areas will be included in future surveys to determine population trends.

Harvest Characteristics

A new hunt with 2 permits was established in 2005 for that portion of GMU 39 in the Middle Fork Boise River drainage upstream from, and including, Queen's River and Yuba River drainages. In 2005, 2006, 2008, and 2009, all permittees harvested males for a 100% success rate (Table 2). In 2007, only 1 male was harvested for a 50% success rate. The harvested males in 2009 were both 5.5 years old with maximum horn lengths of 8.75 and 8.9 inches. No other mountain goat hunting occurred in the Nampa portion of the Southwest Region during the reporting period.

Management Implications

We will consider providing additional mountain goat hunting opportunities in hunt areas that meet minimum requirements as defined in the next revision of the Mountain Goat Management Plan. All other areas will remain closed.

Table 1. Mountain goat surveys, Southwest (Nampa) Region, 1976-2009.

| GMU | Inclusive location | Year | Adults | Kids | Total | Kids/100 adults | |
|--------------------|------------------------------|---------|--------|------|-------|-----------------|------|
| 35 | Grandjean/Head SF Payette | 1976 | 119 | 29 | 148 | 24.4 | |
| | | 1981 | 106 | 23 | 129 | 21.7 | |
| | | 1988 | 61 | 10 | 71 | 16.4 | |
| | | 1994 | 18 | 4 | 22 | 22.2 | |
| | | 2004 | 71 | 16 | 87 | 22.5 | |
| | | 2009 | 56 | 12 | 68 | 21.4 | |
| | Warm Springs Cr. | 1980 | 23 | 10 | 33 | 43.5 | |
| | | 1988 | 32 | 14 | 46 | 43.8 | |
| | | 1994 | 2 | 1 | 3 | 50.0 | |
| | | 2004 | 6 | 2 | 8 | 33.3 | |
| | | 2009 | 18 | 4 | 22 | 22.2 | |
| | Tenmile Creek | 1980 | 6 | 1 | 7 | 16.7 | |
| | | 1988 | 11 | 4 | 15 | 36.4 | |
| | | 1994 | 1 | 0 | 1 | 0.0 | |
| | | 2004 | 2 | 0 | 2 | 0.0 | |
| | | 2009 | 1 | 0 | 1 | 0.0 | |
| | Eightmile Creek | 2009 | 3 | 1 | 4 | 33.3 | |
| | Canyon Creek | 2009 | 5 | 3 | 8 | 14.3 | |
| | 39 | Atlanta | 1977 | 65 | 14 | 79 | 21.5 |
| | | | 1981 | 47 | 9 | 56 | 19.1 |
| 1988 | | | 41 | 9 | 50 | 22.0 | |
| 1994 | | | 25 | 1 | 26 | 4.0 | |
| 2004 | | | 75 | 21 | 96 | 28.0 | |
| 2009 | | | 78 | 15 | 93 | 19.2 | |
| Steel Mountain | | 1977 | 4 | 1 | 5 | 25.0 | |
| | | 1981 | 12 | 2 | 14 | 16.7 | |
| | | 1988 | 14 | 5 | 19 | 35.7 | |
| | | 2004 | 0 | 0 | 0 | 0.0 | |
| | | 2009 | 0 | 0 | 0 | 0.0 | |
| N Fork Boise River | | 1977 | 17 | 6 | 23 | 35.3 | |
| | | 1981 | 37 | 10 | 47 | 27.0 | |
| | | 1994 | 23 | 4 | 27 | 17.4 | |
| | | 2004 | 16 | 2 | 18 | 12.5 | |
| | 2009 | 31 | 6 | 37 | 19.4 | | |

Table 2. Mountain goat harvest and drawing odds, Southwest Region, 2005-present.

| Hunt area | Year | Permits | Harvest | | Hunter success (%) | Days/hunter | First-choice applicants | Drawing odds |
|-----------|------|---------|---------|---|--------------------|-------------|-------------------------|--------------|
| | | | M | F | | | | |
| 39-1 | 2005 | 2 | 2 | 0 | 100 | 1.0 | 30 | 1:15 |
| 39-1 | 2006 | 2 | 2 | 0 | 100 | 4.0 | 7 | 1:3.5 |
| 39 | 2007 | 2 | 1 | 0 | 50 | 5.0 | 40 | 1:20 |
| 39 | 2008 | 2 | 2 | 0 | 100 | 3.0 | 21 | 1:10.5 |
| 39 | 2009 | 2 | 2 | 0 | 100 | 6.5 | 6 | 1:3 |

**PROGRESS REPORT
SURVEYS AND INVENTORY**

| | | | |
|---|-------------------|--------------------|------------------------------------|
| STATE: | <u>Idaho</u> | JOB TITLE: | <u>Mountain Goat Surveys and</u> |
| PROJECT: | <u>W-170-R-34</u> | | <u>Inventories</u> |
| SUBPROJECT: | <u>3, McCall</u> | STUDY NAME: | <u>Big Game Population Status,</u> |
| STUDY: | <u>1</u> | | <u>Trends, Use, and Associated</u> |
| JOB: | <u>5</u> | | <u>Habitat Studies</u> |
| PERIOD COVERED: <u>July 1, 2009 to June 30, 2010</u> | | | |

SOUTHWEST (MCCALL) REGION

GMUs 19A, 20A, 22, 23, 24, 25, 26

Controlled Hunt Area 22

Abstract

A new hunt was created with 4 permits in GMU 22 beginning with the 2003 mountain goat hunting season. Hunters harvested 4 goats for a 100% success rate in 2009. No population surveys were conducted during the reporting period.

Management Direction

Management will be consistent with the statewide management direction delineated in the 1991-1995 Mountain Goat Management Plan.

Background

Historically, GMUs 20A, 25, and 26 had controlled mountain goat hunt areas. GMU 20A had 3 controlled hunt areas with a total of 13 permits the last year hunting was authorized (1979). All 3 hunts were discontinued in 1980. GMU 25 also had 3 controlled hunt areas. Hunting was discontinued in one area in 1979 and 1980 in the other areas. A total of 7 permits were issued the last year hunting was allowed. GMU 26 had 2 controlled hunt areas. By 1980, hunting was discontinued in both hunt areas. A total of 5 permits were issued the last year hunting was allowed in both areas.

The GMU 22 population had been increasing as a result of mountain goats pioneering out from the GMU 18 hunt area. Mountain goat Hunt Area 18 was expanded south in 1997 to include the Brush Creek drainage of GMU 22. Based on the aerial survey in 2000, which indicated the goat population continued to expand, the Commission approved a separate hunt area for all of GMU 22 with 4 permits (Appendix A) beginning in 2003.

Population Surveys

No population surveys were conducted during the reporting period. Past surveys are summarized in Table 1.

Harvest Characteristics

Mountain goats are hunted in a portion of GMU 23 of the Southwest (McCall) Region and harvest is reported with the GMU 18 harvest in Clearwater Region. Four permits were issued for a goat hunt in GMU 22 in 2009. A total of 4 goats (3 male, 1 female) were harvested for a 100% success rate (Table 2). The maximum horn length recorded from this harvest was 9.38 inches.

Management Implications

The McCall sub-region accounted for 8 mountain goat controlled hunt areas in 1977. All mountain goat hunting in the region was discontinued in 1980. The data collected for GMUs 20A, 25, and 26 in 2003 do not support any change from this closed status. An exception to this is the GMU 22 mountain goat population, which is contiguous with the GMU 18 population. The GMU 22 population has been increasing as a result of mountain goats pioneering out from the GMU 18 hunt area. Based on the aerial survey in 2000, the Commission approved a separate hunt area for all of GMU 22 with 4 permits beginning with the 2003 hunting season. This hunt has a high success rate, with only 2 hunt permit holders failing to harvest a goat since the hunt inception. The 2007 population survey in GMU 22 indicated that the mountain goat population was capable of supporting this level of harvest.

Mountain goat translocation sites were identified and prioritized during the 1988-1990 reporting period. Authorization from the appropriate land management agencies was obtained during the 1989-1990 reporting period. These sites were incorporated into the Department's 1991-1995 Mountain Goat Management Plan and revised in August 2000. The 2003 aerial survey data indicate there is a paucity of goats in the lower South Fork Salmon River portion of GMU 20A. This area burned in 1994 and should be good habitat for mountain goats. It is speculated that maybe the mortality during the 1994 fire was significant and without a colonizing source of goats, the habitat is now near vacant. Habitat potential for sustaining a goat population should be assessed in this area. This area should be considered as one of the top priorities for reintroduction or supplementation in the McCall sub-region.

Table 1. Mountain goat surveys, Southwest (McCall) Region, 1982-2009.

| GMU | Year | Adults | Kids | Total | Kids/100 adults |
|-----|------|--------|------|-------|-----------------|
| 20A | 1982 | 35 | 11 | 46 | 31.4 |
| | 1990 | 35 | 5 | 40 | 14.3 |
| | 2003 | 9 | 2 | 11 | 22.2 |
| 22 | 1996 | 44 | 5 | 49 | 11.4 |
| | 2002 | 45 | 9 | 54 | 20.0 |
| | 2007 | 34 | 7 | 41 | 20.5 |
| 25 | 1982 | 52 | 7 | 59 | 13.5 |
| | 1990 | 21 | 6 | 27 | 28.6 |
| | 2003 | 7 | 2 | 9 | 28.6 |
| 26 | 1982 | 34 | 6 | 40 | 17.6 |
| | 1990 | 35 | 6 | 41 | 17.1 |
| | 2003 | 24 | 10 | 34 | 41.7 |

Table 2. Mountain goat harvest and drawing odds, Southwest (McCall) Region, 2003-present.

| Hunt area | Year | Permits | Harvest | | | Hunter success (%) | Days/hunter | First-choice applicants | Drawing odds |
|-----------|------|---------|---------|---|---|--------------------|-------------|-------------------------|--------------|
| | | | M | U | F | | | | |
| 22 | 2003 | 4 | 3 | | 1 | 100 | 1.8 | 51 | 1:12.8 |
| | 2004 | 4 | 3 | | 0 | 75 | | 32 | 1:8.0 |
| | 2005 | 4 | 4 | | 0 | 100 | 3.3 | 23 | 1:5.8 |
| | 2006 | 4 | 4 | | 0 | 100 | | 78 | 1:19.5 |
| | 2007 | 4 | 1 | | 2 | 75 | | 46 | 1:11.5 |
| | 2008 | 4 | 0 | 2 | 2 | 100 | | 42 | 1:10.5 |
| | 2009 | 4 | 3 | | 1 | 100 | 7.0 | 72 | 1:18.0 |

**PROGRESS REPORT
SURVEYS AND INVENTORY**

| | | | |
|------------------------|--------------------------------------|--------------------|------------------------------------|
| STATE: | <u>Idaho</u> | JOB TITLE: | <u>Mountain Goat Surveys and</u> |
| PROJECT: | <u>W-170-R-34</u> | | <u>Inventories</u> |
| SUBPROJECT: | <u>4</u> | STUDY NAME: | <u>Big Game Population Status,</u> |
| STUDY: | <u>1</u> | | <u>Trends, Use, and Associated</u> |
| JOB: | <u>5</u> | | <u>Habitat Studies</u> |
| PERIOD COVERED: | <u>July 1, 2009 to June 30, 2010</u> | | |

MAGIC VALLEY REGION

GMUs 36, 43, 48

Controlled Hunt Area 43

Abstract

During the 2006-2007 regulation process, mountain goat hunt area boundaries underwent substantial changes in the Pioneer, Smoky, Sawtooth, and Boulder-White Cloud Mountains to better reflect population structure, improve harvest distribution, and allow more hunting opportunity while ensuring healthy mountain goat populations. During 2009, 3 permits for mountain goats were available in Hunt Area 43. Drawing odds were 6.25% and 2 of the 3 (67%) hunters were successful. A population survey was conducted in Hunt Area 43 in February 2009.

Management Direction

Follow statewide management direction, encourage the USFS to reduce livestock/human/mountain goat conflicts in favor of mountain goats, and maintain current hunts and permit levels.

Background

Previous reports detail the numerous changes that have been made in goat survey areas and hunt areas since the 1970s. In 2007, boundaries were again redesigned to better reflect mountain goat densities and distribution. Hunt Area 43 currently includes the southwestern portion of GMU 36, all of GMU 43, and the northwest portion of GMU 48. Hunt Areas 50, 36A-1, and 36A-2 include portions of GMUs 48 and 49. Information on these hunts is presented in the Upper Snake and Salmon sections of this report.

Population Surveys

The most recent survey of Hunt Area 43 was conducted in February 2009. One hundred seven goats were observed (81 Adults, 18 Kids, and 8 Yearlings). Observed ratios were 100 adults:24 juveniles. The number of goats observed was consistent with the previous survey, conducted in

2004. During the 2004 survey, 96 mountain goats (100 adults: 28 juveniles) were observed in Hunt Area 43. Twenty-seven mountain goats (100 adults: 29 juveniles) were observed in the GMU 43 portion of Hunt Area 43. Twenty-four mountain goats (100 adults: 26 juveniles) were observed in the GMU 48 portion of Hunt Area 43, and 45 mountain goats (100 adults: 29 juveniles) were observed in the GMU 36 portion of Hunt Area 43.

Harvest Characteristics

In 2009, 2 of the 3 permittees in Hunt Area 43 harvested mountain goats. One was a 5.5 year old female, harvested after 3 days of hunting. The second was a 8.5 years old male, harvested after 3 days of hunting.

Capture and Translocation

Potential release sites have been identified in GMUs 43 and 48. No translocations occurred in the region during the reporting period.

Management Implications

Results of the 2004 and 2009 surveys suggest that overall mountain goat numbers are slowly increasing but also suggest that the distribution of mountain goats is patchy. While hunters have enjoyed relatively high success rates and relatively good drawing odds in these GMUs, research suggests that small, patchy mountain goat populations can sustain only minimal harvest. In addition, because Hunt Area 43 is close to the Ketchum/Sun Valley area and State Highway 75, mountain goats in these hunt areas are frequently observed by the general public and have important non-consumptive value. During the next review of mountain goat hunting regulations, we plan to review location, survey, and harvest data and will continue to refine permit numbers and hunt area boundaries to best fit the dynamics of the mountain goat populations in GMUs 43 and 48.

Table 1. Mountain goat surveys, Magic Valley Region, 1981-2004.

| GMU | Year | Inclusive location | Adults | Kids | Unknow n | Total | Kids/100 adults |
|-----|------|---|--------|------|-------------|-------|--------------------|
| 36 | 2009 | That portion of GMU 36 west of State Highway 75 and south of Alturas Lake Creek | 18 | 6 | 0 | 26 | 33.3 |
| 43 | 1981 | | 69 | 20 | 0 | 89 | 29.0 |
| | 1990 | | 67 | 21 | 0 | 88 | 31.3 |
| | 1994 | | 21 | 4 | 0 | 25 | 19.0 |
| | 1996 | | 25 | 7 | 0 | 32 | 28.0 |
| | 2001 | | 26 | 2 | 0 | 28 | 7.7 |
| | 2004 | | 21 | 6 | 0 | 27 | 28.6 |
| | 2009 | | 50 | 10 | 0 | 60 | 20.0 |
| 48 | 1981 | That portion west of N. Fork Big Wood River and north of Hwy 75 | 18 | 3 | 0 | 21 | 16.7 |
| | | That portion west of Hwy 75 and north of Baker Creek | 19 | 2 | 0 | 21 | 10.5 |
| | | That portion east of Hwy 75 and south of Trail Creek Road, and that portion of GMU 49 west of the Little Wood River | 21 | 1 | 5 | 27 | 4.8 |
| | 1985 | That portion west of N. Fork Big Wood River and north of Hwy 75 | 26 | 8 | 0 | 34 | 30.8 |
| | 1990 | | 43 | 16 | 0 | 59 | 37.2 |
| | 1994 | | 52 | 13 | 0 | 65 | 25.0 |
| | 2001 | | 55 | 14 | 0 | 69 | 25.5 |
| | 2004 | | 44 | 12 | 0 | 56 | 27.3 |
| | 2009 | That portion of GMU 48 south and west of State Highway 75 and upstream from and including the Baker Creek drainage | 19 | 2 | 0 | 21 | 10.5 |

Table 2. Mountain goat harvest and drawing odds by hunt area, Magic Valley Region, 1983-present.

| Hunt area | Year | Permits | Harvest | | Hunter success (%) | Days/hunter ^a | First-choice applicants | Drawing odds | |
|-------------------|-------------------|---------|---------|-----|--------------------|--------------------------|-------------------------|--------------|--------|
| | | | M | F | | | | | |
| 43 ^b | 1983 | 4 | 2 | 0 | 50 | 4.3 | 51 | 1:12.8 | |
| | 1984 | 4 | 1 | 2 | 75 | 3.0 | 46 | 1:11.5 | |
| | 1985 | 4 | 0 | 3 | 75 | 3.5 | 72 | 1:18.0 | |
| | 1986 | 4 | 1 | 3 | 100 | 3.0 | 24 | 1:6.0 | |
| | 1987 | 4 | 1 | 3 | 100 | 5.3 | 15 | 1:3.8 | |
| | 1988 | 4 | 3 | 0 | 75 | 8.0 | 16 | 1:4.0 | |
| | 1989 | 4 | 3 | 0 | 75 | 3.5 | 19 | 1:4.8 | |
| | 1990 | 4 | 1 | 2 | 75 | 9.3 | 14 | 1:3.5 | |
| | 1991 | 3 | 0 | 1 | 33 | 6.7 | 18 | 1:6.0 | |
| | 1992 | 3 | 0 | 1 | 33 | 3.7 | 7 | 1:2.3 | |
| | 1993 | 3 | 1 | 2 | 100 | 5.3 | 14 | 1:4.7 | |
| | 1994 | 3 | 1 | 2 | 100 | 5.5 | 11 | 1:3.7 | |
| | 2005 ^c | 2 | 1 | 1 | 100 | 1.5 | 24 | 1:12.0 | |
| | 2006 | 2 | 2 | 0 | 100 | 4.5 | 14 | 1:7.0 | |
| | 2007 ^d | 3 | 0 | 2 | 67 | 1.5 | 54 | 1:18.0 | |
| | 2008 | 3 | 3 | 0 | 100 | 10.2 | 25 | 1:8.3 | |
| | 2009 | 3 | 1 | 1 | 67 | 3.0 | 48 | 1:16.0 | |
| | 48 | 1983 | 4 | 2 | 1 | 75 | 2.0 | 80 | 1:20.0 |
| | | 1984 | 4 | 3 | 1 | 100 | 4.5 | 50 | 1:12.5 |
| | | 1985 | 4 | 1 | 3 | 100 | 1.5 | 92 | 1:23.0 |
| 1986 | | 4 | 1 | 3 | 100 | 10.3 | 11 | 1:2.8 | |
| 1987 | | 4 | 4 | 0 | 100 | 7.0 | 22 | 1:5.5 | |
| 1988 | | 4 | 4 | 0 | 100 | | 16 | 1:4.0 | |
| 1989 | | 4 | 3 | 1 | 100 | 4.3 | 21 | 1:5.3 | |
| 1990 | | 4 | 3 | 1 | 100 | 2.5 | 11 | 1:2.8 | |
| 1991 | | 2 | 1 | 0 | 50 | 8.0 | 18 | 1:9.0 | |
| 1992 | | 2 | 1 | 0 | 50 | 2.0 | 8 | 1:4.0 | |
| 1993 | | 2 | 2 | 0 | 100 | 6.0 | 12 | 1:6.0 | |
| 1994 | | 2 | 2 | 0 | 100 | 3.0 | 10 | 1:5.0 | |
| 1995 | | 2 | 0 | 2 | 100 | 3.5 | 13 | 1:6.5 | |
| 1996 | | 2 | 2 | 0 | 100 | 1.0 | 8 | 1:4.0 | |
| 1997 | | 2 | 2 | 0 | 100 | 5.5 | 16 | 1:8.0 | |
| 1998 | | 2 | 2 | 0 | 100 | 2.0 | 13 | 1:6.5 | |
| 1999 | | 2 | 1 | 0 | 50 | 25.0 | 20 | 1:10.0 | |
| 2000 | | 2 | 1 | 1 | 100 | 2.5 | 13 | 1:6.5 | |
| 2001 | | 2 | 2 | 0 | 100 | 4.5 | 8 | 1:4.0 | |
| 2002 | | 2 | 1 | 0 | 50 | 3.0 | 25 | 1:12.5 | |
| 2003 | 2 | 2 | 0 | 100 | 3.0 | 24 | 1:12.0 | | |
| 2004 | 2 | 1 | 0 | 50 | 3.0 | 18 | 1:9.0 | | |
| 2005 | 2 | 2 | 0 | 100 | 5.0 | 13 | 1:6.5 | | |
| 2006 ^e | 2 | 1 | 0 | 50 | 3.0 | 12 | 1:6.0 | | |

Magic Valley Region

Table 2. Continued.

| Hunt area | Year | Permits | Harvest | | Hunter success (%) | Days/hunter ^a | First-choice applicants | Drawing odds |
|-----------|------|---------|---------|---|--------------------|--------------------------|-------------------------|--------------|
| | | | M | F | | | | |
| | 1983 | 8 | 4 | 1 | 63 | 3.2 | 131 | 1:16.4 |
| | 1984 | 8 | 4 | 3 | 88 | 3.8 | 96 | 1:12.0 |
| | 1985 | 8 | 1 | 6 | 88 | 2.5 | 164 | 1:20.5 |
| | 1986 | 8 | 2 | 6 | 100 | 6.7 | 35 | 1:4.4 |
| | 1987 | 8 | 5 | 3 | 100 | 6.2 | 37 | 1:4.6 |
| | 1988 | 8 | 7 | 0 | 88 | 8.0 | 32 | 1:4.0 |
| | 1989 | 8 | 6 | 1 | 88 | 3.9 | 40 | 1:5.0 |
| | 1990 | 8 | 4 | 3 | 88 | 5.9 | 25 | 1:3.1 |
| | 1991 | 5 | 1 | 1 | 40 | 7.4 | 36 | 1:7.2 |
| | 1992 | 5 | 1 | 1 | 40 | 2.9 | 15 | 1:3.0 |
| | 1993 | 5 | 3 | 2 | 100 | 5.7 | 26 | 1:5.2 |
| | 1994 | 5 | 3 | 2 | 100 | 4.3 | 21 | 1:4.2 |
| | 1995 | 2 | 0 | 2 | 100 | 3.5 | 13 | 1:6.5 |
| | 1996 | 2 | 2 | 0 | 100 | 1.0 | 8 | 1:4.0 |
| | 1997 | 2 | 2 | 0 | 100 | 5.5 | 16 | 1:8.0 |
| | 1998 | 2 | 2 | 0 | 100 | 2.0 | 13 | 1:6.5 |
| | 1999 | 2 | 1 | 0 | 50 | 25.0 | 20 | 1:10.0 |
| | 2000 | 2 | 1 | 1 | 100 | 2.5 | 13 | 1:6.5 |
| | 2001 | 2 | 2 | 0 | 100 | 4.5 | 8 | 1:4.0 |
| | 2002 | 2 | 1 | 0 | 50 | 3.0 | 25 | 1:12.5 |
| | 2003 | 2 | 2 | 0 | 100 | 3.0 | 24 | 1:12.0 |
| | 2004 | 2 | 1 | 0 | 50 | 3.0 | 18 | 1:9.0 |
| | 2005 | 4 | 3 | 1 | 100 | 3.3 | 37 | 1:9.3 |
| | 2006 | 4 | 3 | 0 | 75 | 4.0 | 26 | 1:6.5 |
| | 2007 | 3 | 0 | 2 | 67 | 1.5 | 54 | 1:18.0 |
| | 2008 | 3 | 3 | 0 | 100 | 10.2 | 25 | 1:8.3 |

^a Prior to 1996, data are from a telephone survey of all hunters. Beginning in 1996, data are from mandatory check of successful hunters only.

^b GMU 43 was closed to hunting from 1995-2004.

^c Data is for Hunt Area 43, which includes portions of GMUs 43 and 36.

^d In 2007, Hunt Area 43 was redrawn to include GMU 43 and portions of GMUs 36 and 48.

^e After 2006, Hunt Area 48 was incorporated into Hunt Area 43.

**PROGRESS REPORT
SURVEYS AND INVENTORY**

| | | | |
|------------------------|--------------------------------------|--------------------|------------------------------------|
| STATE: | <u>Idaho</u> | JOB TITLE: | <u>Mountain Goat Surveys and</u> |
| PROJECT: | <u>W-170-R-34</u> | | <u>Inventories</u> |
| SUBPROJECT: | <u>6</u> | STUDY NAME: | <u>Big Game Population Status,</u> |
| STUDY: | <u>1</u> | | <u>Trends, Use, and Associated</u> |
| JOB: | <u>5</u> | | <u>Habitat Studies</u> |
| PERIOD COVERED: | <u>July 1, 2009 to June 30, 2010</u> | | |

UPPER SNAKE REGION

Abstract

Five distinct populations of mountain goats occur in Upper Snake Region. These include Pioneer Mountains (GMUs 49 and 50), South Lemhi Range (GMUs 51 and 58), Red Conglomerates (GMU 59), Italian Peaks (GMU 59A), and Snake River Range (GMU 67).

Mountain goat hunting opportunity has been reduced substantially in recent years. In Upper Snake Region, we've gone from a high of 5 hunt areas and 40 total permits in the late 1980s and early 1990s to 3 hunts with 10 total permits offered in 2006 (Table 1). Out of the 10 permits offered, 8 mountain goats were harvested (80% success) as determined by mandatory harvest reports. Drawing odds were 1:7.5 (Hunt Area 50), 1:18.5 (Hunt Area 51), and 1:23.0 (Hunt Area 67). The reduction of tags was due to dramatic declines in mountain goat populations over the last 15 years in Upper Snake Region. This population decline had led to the closure of 3 hunt areas by 2003.

Climatic Conditions

Conditions were very favorable throughout this reporting period. The summer of 2009 was moist and the region saw exceptional vegetation growth, creating excellent habitat conditions throughout the region. The winter of 2009-2010 was mild, with less than average snow pack and crusting. The minimal winter snowpack receded quickly and moist spring conditions led to good forage conditions throughout the spring and early summer of 2010.

GMUs 49, 50

Controlled Hunt Area 50

Background

Hunt Areas 50-1 and 50-2 were closed in 1982 because of a low kid:adult ratio. Hunt Area 50 (that portion of GMU 50 south and east of Trail Creek Road and south and west of U.S. Highway 93) was reopened with 5 permits in 1986 after 92 mountain goats with 30 kids:100 adults were

counted on a 1985 survey. This hunt area was previously identified as 50-2 and was closed when only 45 mountain goats with 22 kids:100 adults were counted during a helicopter survey in winter 1981-1982. GMU 49 was added to this hunt (Appendix A) in 2001.

Population Surveys

GMUs 49 and 50 were surveyed in August 2010, this was the first survey since 2004 because the 2008 survey was canceled (contracting difficulties). The total number of mountain goats counted in the 2 hunt GMUs was 74, 48 adults, 16 kids, and 11 yearlings. Again, as in the 2004 survey, no goats were counted in the White Knob Mountains. Although the total number of goats in this population appears to be stable in recent history, the kid:adult ratio has increased substantially; from 16:100 in 2004 to 27:100 in 2010.

Harvest Characteristics

Two permits were issued in Hunt Area 50 in 2009 (Table 3), resulting in the harvest of 2 female mountain goats (100% hunter success). Drawing odds were 1:8.5 in 2009. Mean age of harvested goats was 6. Hunters averaged 6.5 days in the field.

Habitat Conditions

Mountain goats in Hunt Area 50 occupy the higher elevation peaks and ridges of the Pioneer Range. Habitat in this area is discontinuous and appears less productive than other occupied mountain goat habitat in Upper Snake Region. The 2 habitat components that are most limited are alpine meadow summer range and mountain mahogany stands for winter range. Tracks observed on aerial surveys indicate mountain goats, either solitary or in small groups, shift several miles to find suitable habitats following winter storms. Water may also be limiting in some parts of the summer range.

Capture and Translocation

No capture and/or translocation operations have been conducted in GMU 50.

Management Implications

Permits in Hunt Area 50 were reduced from 5 to 2 in 1993 based upon results of the 1992 population survey. Mountain goat population surveys in August 2004, August 1999, February 1992, and August 2010 indicate this hunt area has been and still is near the minimum population level to sustain a hunt according to the 1991-1995 Mountain Goat Management Plan. The plan calls for no more than 5% harvest of the adult population which calculates to 2.4 animals. Therefore, no permit number changes are planned.

GMUs 51, 58, 59, 59A

Controlled Hunt Area 51

Background

Mountain goats are native to these ranges. Reports of observations of 1 to a few mountain goats date back to the early 1950s. Numbers remained low, however, until about the mid-1970s. Aerial surveys in 1982 indicated that populations in Hunt Areas 51 and 59A had increased enough to increase permits in Hunt Area 51 and initiate Hunt Area 59A. Hunt Area 59 was initiated in 1987 after a 1986 survey found 46 mountain goats with a ratio of 44 kids:100 adults. This hunt was closed after a 1994 population survey accounted for only 25 mountain goats. Hunt Area 59A was closed in 2002 because the population had declined below the minimum number to support a hunt (Table 2).

From 1983-1986, Hunt Area 51 was split into 51-1 (north of Rocky Canyon drainage) and 51-2 (south of and including Rocky Canyon drainage). These hunts were combined in 1987 when observations showed mountain goats moved freely between the 2 hunt areas and hunter densities were not a problem.

Mountain goats have typically not been found on the west side of GMU 51 (Lost River Range) but in recent years, sightings of a few animals have been reported.

One controlled hunt (Appendix A) with a total of 3 permits was held in these GMUs in 2009.

Population Surveys

A population survey was most recently flown in Hunt Area 51 in August 2005. A total of 67 mountain goats with a kid:adult ratio of 20.8:100 were counted (Table 2). This number is down significantly from the previous and historical high count for the area of 157. This information prompted a permit reduction from 6 to 4 for the 2007 season.

Population surveys were conducted in GMUs 59 and 59A in August 2001 and again in September 2002 (Table 2). A Bell G47 helicopter was used to conduct the surveys. No goats were found in GMU 59 in 2001 or 2002 despite good counting conditions and the same areas being surveyed by the same observer as in the previous (1994) survey. A total of 25 mountain goats were counted in GMU 59 in 1994. The observed kid:adult ratio was 79:100, and no twin sets were identified. The 25 mountain goats counted on this survey represented a decrease of 46% from the next most recent survey (1986). No goats could be found on the Montana side of the range (Garfield Peak, Lima Peaks, and upper Shineberger Creek) in 2002.

The 2001 survey of GMU 59A accounted for only 25 mountain goats (Table 2). This total represents an 80% decrease from the previous survey (1994). Counting conditions were good during this survey, and again, the same areas were surveyed by the same observer, pilot, and aircraft as the previous surveys. The 1994 survey results included a total count of 128 mountain

goats with 39 kids:100 adults (4 sets of twins identified). This total represented an increase of 44% from the 1991 survey and represented the most mountain goats ever counted in this GMU.

Despite good counting conditions during early September 2002 in Hunt Areas 59 and 59A, counts were down dramatically in all areas. Winds prevented getting close to rocks in some places to get precise GIS locations; however, the area was surveyed adequately to count and classify the goats. The survey was conducted by the same observer, but a different pilot and aircraft than the 1994 and 2001 surveys. No goats were observed in GMU 59 (25 goats were counted in 1994) and only 22 goats were tallied in GMU 59A, compared to 128 in 1994. The declines in these populations resulted in the closure of both hunts (59 in 1995 and 59A in 2002). During the 2002 survey, an attempt was made to survey the entire population of goats in both Idaho and Montana. In addition to the traditional area surveyed (Beaverhead Range from Italian Peak to Ten Mile Creek), the mountain range from Ten Mile Creek, Idaho, and Morrison Lake, Montana, was surveyed. Within this area, an additional 6 adult goats were observed above Morrison Lake on the Montana side of the range and a nanny and kid observed in upper Clear Creek, GMU 30A on the Idaho side of the range. The kid:100 adult ratio had declined from 39.1 in 1994 to 22.2 in 2002. Reasons for these declines are still poorly understood.

The most recent surveys in GMUs 59 and 59A were conducted in August 2006. This survey resulted in observations of 2 adult goats and 0 kids in GMU 59 and 20 adults and 7 kids in GMU 59A/58.

Harvest Characteristics

A total of 3 permits were issued for Hunt Area 51 in 2009 (Table 3). Two hunters were successful in harvesting mountain goats (66% hunter success), based on mandatory harvest reports. One male and one female were harvested in Hunt Area 51. Drawing odds were 1:20 for Hunt Area 51 in 2009. Hunters averaged 17.5 days in the field.

Habitat Conditions

Mountain goat habitat in these GMUs consists of alpine meadows interspersed with scree and talus, conifers, and mountain mahogany. Water and alpine meadow habitat is limited in these ranges and may be limiting goat distribution and population growth.

Capture and Translocation

No capture and/or translocation operations were conducted during this reporting period.

Management Implications

The 1991-1995 Mountain Goat Management Plan authorizes hunts in game management GMUs having a minimum of 50 adult mountain goats, requires that hunted GMUs be inventoried at least once every 5 years, and sets permit levels to not exceed 5% of the adults in any population. Based on the most recent survey data, season framework modifications were implemented beginning in 1995. The permit level in GMU 51 was decreased from 6 to 3 due to reduced

populations in the most recent survey. The dramatic decrease in goats counted in both GMUs 59 and 59A have resulted in the closure of these hunts (GMU 59 in 1995 and GMU 59A in 2002). Reasons for these declines and differences in population performance of relatively close populations are unknown.

GMU 67

Controlled Hunt Area 67

Background

The Snake River Range lies outside the historical range of mountain goats. Five mountain goats were introduced in 1969 (Hayden 1989). The mountain goat population in GMU 67 grew rapidly in the 1970s and 1980s. Hunts were initiated in 1983. Each of Hunt Areas 67-1, 67-2, 67-3, and 67-4 had 4 permits in 1986, resulting in a net increase of 6 permits over the 1985 season. Two new hunts (67-5 and 67-6) were created in 1987. Due to decreasing population trends and plans to continue capturing mountain goats from the Mt. Baldy and Mt. Baird populations for statewide translocation, seasons were restructured in 1991. Total permits were reduced from 24 to 13. Hunt Areas 67-2, 67-4, and 67-6 were combined and renumbered to 67-1. Additionally, Hunt Area 67-1 became 67-2; 67-3 remained 67-3; and 67-5 became 67-4. The continued downward population trend resulted in the further restructuring of the GMU 67 goat hunts in 2001 to consist of only 1 hunt with 3 permits encompassing all of GMU 67.

Population Surveys

Productivity and survival have historically been high in this introduced population. In 1982 and 1983, the percent of adult females producing young was 71% and 83%, respectively, and twinning rates were 25% and 33%, respectively. Annual survival from 1982 to 1983 was calculated to be 88% among kids, 95% among yearlings, and 93% among adult/subadults (Hayden 1989). Even in the face of declining populations, kid:adult ratios remained high through 2000, but showed a marked decline in the 2002 count (Table 2).

Surveys have been conducted in GMU 67 on a fairly frequent basis. An aerial population survey was conducted on this mountain goat population with a Bell G47 helicopter in early August 2002. A total of only 42 mountain goats with a kid:adult ratio of 20:100 was counted in the Mt. Baird portion of GMU 67 (Table 2). This was the fewest goats counted in this area since before 1982. This survey was disappointing in that no goats could be found in the Mt. Baldy portion of GMU 67 (Table 2). What was even more disappointing was that the goat dust beds and trails so prominent 10 years ago no longer exist; suggesting goats no longer use this area. The count previous to 2002 in this area was a helicopter count conducted in 2000 that accounted for 90 mountain goats. This population had shown a steady decline from 217 (the historical high count) down to 42 since 1996. Kid:100 adult ratios had declined from over 40 to 20. Goat numbers on the Wyoming side of the area also declined from 76 in 2000 to 55 in 2002. As with the GMU 59 and 59A goats, the reason for these declines is poorly understood. Reasons for this decline are largely unknown and the hunt was closed in 2003.

The August 2004 population survey had some surprising results. Mountain goat numbers had increased substantially to 114 animals; a 171% population increase in 2 years. The increase seems unrealistic and may be inflated due to changes in survey effort and methodology; however, Wyoming biologists noted a similar change in this population from their survey. The state line runs across the mountain range and the goat populations in the 2 states could biologically be considered as one. The Wyoming goats originated from Idaho introductions. Wyoming counted 55 goats in 2002 and 121 goats in 2004, a 120% increase. Surveys in the 2 states were timed and conducted similarly but with different pilots and observers. During the 2004 Idaho survey, goats were again observed in the Mt. Baldy area with a total of 6 animals. The increased count prompted the Department to reopen the GMU 67 hunt with a conservative 2 permits beginning fall 2005 in the Mt. Baird area between Palisades Creek and the Wyoming border.

Another survey was conducted in February 2005 to address impacts of a proposed expansion of a heli-skiing operation. During this survey, 74 goats were observed in Idaho and data was gathered on locations of wintering goats and signs of winter recreation. We not only learned where heli-skiing activities would be detrimental to mountain goats but that snowmobiling activity is reaching far into mountain goat wintering habitat and is a serious concern. The lower count from summer to winter is most likely due to sightability differences between summer and winter.

The most recent survey of mountain goats occurred in August 2010. The survey suggests the population is slightly larger than it was during the previous survey in 2006 (Table 2). Biologists counted 129 animals south of Palisades Creek with kid:adult ratio of 34:100 and 26 animals north of Palisades Creek with a kid:adult ratio of 37:100.

Harvest Characteristics

Hunt Area 67 was closed to harvest in 2003 and 2004. Only 2 permits were issued in 2005 and 2006. In 2008 and 2009, 4 permits were issued with a harvest of 4 (100% hunter success). This increase in permits is a reflection of stable goat populations observed during the last 3 surveys (Table 2). The 2009 harvest was 50% female and hunters averaged 21.5 days.

Habitat Conditions

GMU 67 mountain goat habitat is productive, with a good complex of alpine meadows, mountain mahogany, and conifers. In summer, the mountain goats use lush, alpine meadows and cirque basins. Examination of harvested mountain goats from this area indicates they are in extremely good body condition going into winter.

Domestic sheep graze the Mt. Baird area and may be impacting mountain goat summer range. This area is heavily used by mountain goats prior to sheep use, but they leave and move onto winter range when domestic sheep are present. It is not known if this mountain goat movement is due to forage or spatial competition, or disturbance created by herders and dogs. The Targhee National Forest, who administers the area, has continued to evaluate the conflict.

The Bridger-Teton National Forest is currently going through the NEPA process to evaluate the impacts of a proposal for heli-skiing in the area. If approved, this could have negative impacts for this goat population.

Capture and Translocation

Several efforts to translocate mountain goats from the Mt. Baldy and Mt. Baird populations were made between 1989 and 1997. Mountain goats were captured in clover traps using salt as bait and some were net-gunned. A total of 46 mountain goats were removed from the area during 6 capture efforts (Table 4).

Management Implications

The past heavy harvest strategy (pre-1992) was dictated by the rapidly increasing, productive nature of this introduced herd. Subsequent downward population trends, along with plans to continue capturing mountain goats for translocation operations, precipitated a reduction in permits and a restructuring of GMU 67 mountain goat hunts in 1991. The 2 hunts were combined in 2001 and permits were reduced to 3.

The largest number of mountain goats (217) counted in the Mt. Baird area of GMU 67 was observed on the 1996 survey flight. The population objective after the 1996 survey was to reduce this population to a level thought to be more in balance with available habitat. A more aggressive harvest strategy (20 permits) was adopted beginning with the 1997 hunting season and an additional 10 goats were captured and provided for statewide translocation operations. However, the Mt. Baird goat population has declined more precipitously than management actions would dictate, and the lack of goats found in the Mt. Baldy portion of GMU 67 during the 2002 survey is very disappointing. Survey results subsequent to 1996 indicated a decrease to 163 in 1998, 90 in 2000, 42 in 2002, and a jump to 107 in 2004. Reasons for that decline and rebound are still unknown. The hunt was closed during 2003 and 2004 and reopened in 2005. Currently there are 4 permits offered for GMU 67 and discussions are taking place regarding a possible increase in permits.

Literature Cited

Hayden, J. A. 1989. Status and population dynamics of mountain goats in the Snake River Range, Idaho. Thesis, University of Montana, Missoula.

Table 1. Mountain goat harvest and drawing odds, Upper Snake Region, 1981-present.

| Year | Permits | Harvest | | | Hunter success (%) | First-choice applicants | Drawing odds |
|------|---------|---------|----|-------|--------------------|-------------------------|--------------|
| | | M | F | Total | | | |
| 1981 | 3 | 1 | 1 | 2 | 67 | 122 | 1:40.7 |
| 1982 | 3 | 1 | 1 | 2 | 67 | 149 | 1:49.7 |
| 1983 | 15 | 7 | 4 | 11 | 73 | 396 | 1:26.4 |
| 1984 | 19 | 11 | 8 | 19 | 100 | 350 | 1:18.4 |
| 1985 | 19 | 10 | 6 | 16 | 84 | 426 | 1:22.4 |
| 1986 | 30 | 21 | 5 | 26 | 87 | 220 | 1:7.3 |
| 1987 | 40 | 25 | 14 | 39 | 98 | 259 | 1:6.5 |
| 1988 | 40 | 25 | 11 | 36 | 90 | 297 | 1:7.4 |
| 1989 | 40 | 20 | 17 | 37 | 93 | 233 | 1:5.8 |
| 1990 | 40 | 25 | 9 | 34 | 85 | 284 | 1:7.1 |
| 1991 | 29 | 17 | 11 | 28 | 97 | 273 | 1:9.4 |
| 1992 | 29 | 16 | 11 | 27 | 93 | 226 | 1:7.8 |
| 1993 | 27 | 18 | 6 | 24 | 89 | 203 | 1:7.5 |
| 1994 | 27 | 15 | 11 | 26 | 96 | 223 | 1:8.3 |
| 1995 | 22 | 6 | 6 | 12 | 55 | 214 | 1:9.7 |
| 1996 | 22 | 14 | 4 | 18 | 82 | 198 | 1:9.0 |
| 1997 | 35 | 17 | 12 | 29 | 83 | 266 | 1:7.6 |
| 1998 | 35 | 15 | 11 | 26 | 74 | 243 | 1:6.9 |
| 1999 | 21 | 11 | 7 | 18 | 86 | 205 | 1:9.8 |
| 2000 | 21 | 12 | 7 | 19 | 90 | 191 | 1:9.1 |
| 2001 | 16 | 11 | 4 | 15 | 94 | 160 | 1:10.0 |
| 2002 | 11 | 8 | 3 | 11 | 100 | 116 | 1:10.5 |
| 2003 | 8 | 6 | 2 | 8 | 100 | 117 | 1:14.6 |
| 2004 | 8 | 3 | 3 | 6 | 75 | 90 | 1:11.2 |
| 2005 | 10 | 7 | 2 | 9 | 90 | 210 | 1:21.0 |
| 2006 | 10 | 6 | 2 | 8 | 80 | 192 | 1:19.2 |
| 2007 | 9 | 6 | 1 | 7 | 77 | 169 | 1:18.7 |
| 2008 | 9 | 5 | 2 | 7 | 77 | 158 | 1:17.5 |
| 2009 | 9 | 5 | 3 | 8 | 88 | 203 | 1:22.6 |

Table 2. Mountain goat surveys, Upper Snake Region, 1982-2006.

| GMU | Inclusive location | Year | Adults | Kids | Unknown | Total | Kids/100 adults |
|-------------------|--|-------------------|--------|------|---------|-------|-----------------|
| 49 | (in Hunt Area 50) | 1992 | 8 | 2 | 0 | 10 | 25.0 |
| | | 2000 | 22 | 1 | 0 | 23 | 4.5 |
| | | 2004 ^a | 31 | 3 | 0 | 34 | 9.6 |
| 50 | That portion north and west of the Trail Creek Road and south and west of U.S. Highway 93 (in Hunt Area 36A-1) | 1982 ^a | 13 | 3 | 0 | 16 | 23.1 |
| | | 1985 ^a | 9 | 2 | 0 | 11 | 22.2 |
| | | 1992 ^a | 13 | 0 | 0 | 13 | 0.0 |
| | | 1999 ^a | 26 | 4 | 0 | 30 | 15.4 |
| | 2004 ^c | 13 | 3 | 0 | 16 | 23.1 | |
| | That portion south and east of the Trail Creek road and south and west of U.S. Highway 93 (in Hunt Area 50) | 1982 ^a | 37 | 8 | 0 | 45 | 21.6 |
| | | 1985 ^a | 66 | 20 | 6 | 92 | 30.3 |
| | | 1992 ^a | 45 | 4 | 0 | 49 | 8.9 |
| 1999 ^a | | 40 | 10 | 0 | 50 | 25.0 | |
| 2004 ^a | 31 | 7 | 0 | 38 | 22.6 | | |
| 51 | Lemhi Range South of the Big Timber Creek drainage | 1982 ^a | 75 | 22 | 0 | 97 | 29.3 |
| | | 1986 ^a | 68 | 15 | 17 | 101 | 22.1 |
| | | 1987 ^b | 100 | 30 | 0 | 130 | 30.0 |
| | | 1992 ^a | 54 | 7 | 0 | 61 | 13.0 |
| | | 2000 ^a | 125 | 32 | 0 | 157 | 25.6 |
| | | 2005 ^a | 67 | 14 | 0 | 82 | 20.8 |
| 59 | Red Conglomerates | 1986 ^a | 32 | 14 | 0 | 46 | 43.8 |
| | | 1994 ^a | 14 | 11 | 0 | 25 | 78.6 |
| | | 2001 ^a | 0 | 0 | 0 | 0 | |
| | | 2002 ^a | 0 | 0 | 0 | 0 | |
| | | 2006 ^a | 2 | 0 | 0 | 2 | 0.0 |
| 59A | Italian Peaks | 1982 ^a | 46 | 13 | 0 | 59 | 28.3 |
| | | 1986 ^a | 10 | 3 | 0 | 13 | 30.0 |
| | | 1991 ^b | 61 | 24 | 4 | 89 | 39.3 |
| | | 1994 ^a | 92 | 36 | 0 | 128 | 39.1 |
| | | 2001 ^a | 16 | 4 | 0 | 20 | 25.0 |
| | | 2002 ^a | 18 | 4 | 0 | 22 | 22.2 |
| 67 | South of Palisades Creek (Mt. Baird area) | 2006 ^a | 20 | 7 | 0 | 27 | 35.0 |
| | | 1982 ^a | 33 | 13 | 0 | 46 | 39.4 |
| | | 1985 ^a | 35 | 16 | 0 | 51 | 45.7 |
| | | 1986 ^b | 0 | 0 | 104 | 104 | |
| | | 1986 ^a | 37 | 15 | 0 | 52 | 40.5 |
| | | 1988 ^b | 71 | 21 | 0 | 92 | 29.6 |
| | | 1990 ^b | 45 | 18 | 0 | 63 | 40.0 |
| | | 1993 ^b | 104 | 33 | 16 | 153 | 31.7 |
| | | 1994 ^a | 73 | 42 | 0 | 115 | 57.5 |
| | | 1996 ^a | 151 | 66 | 0 | 217 | 43.7 |
| | | 1998 ^a | 118 | 45 | 0 | 163 | 38.1 |
| | | 2000 ^a | 61 | 29 | 0 | 90 | 47.5 |
| 2002 ^a | 35 | 7 | 0 | 42 | 20.0 | | |
| 2004 ^a | 84 | 24 | 0 | 108 | 28.5 | | |

Table 2. Continued.

| GMU | Inclusive location | Year | Adults | Kids | Unknown | Total | Kids/100 adults |
|-----|--|-------------------|--------|------|---------|-------|--------------------|
| | | 2005 ^c | 47 | 15 | 0 | 62 | 31.9 |
| | | 2006 ^a | 100 | 19 | 0 | 119 | 19.0 |
| | | 2008 ^a | 71 | 19 | 0 | 90 | 26.8 |
| | | 2010 | 96 | 33 | 0 | 129 | 34.4 |
| | North of Palisades Creek (Mt. Baldy area) | 1982 ^a | 45 | 12 | 0 | 57 | 26.7 |
| | | 1985 ^a | 31 | 8 | 0 | 39 | 25.8 |
| | | 1986 ^b | 0 | 0 | 126 | 126 | |
| | | 1986 ^a | 38 | 19 | 49 | 106 | 50.0 |
| | | 1987 ^b | 72 | 28 | 0 | 100 | 38.9 |
| | | 1988 ^b | 91 | 31 | 0 | 122 | 34.1 |
| | | 1989 ^b | 35 | 12 | 0 | 47 | 34.3 |
| | | 1990 ^b | 73 | 22 | 0 | 95 | 30.1 |
| | | 1994 ^a | 41 | 20 | 0 | 61 | 48.8 |
| | | 1996 ^a | 47 | 17 | 0 | 64 | 36.2 |
| | | 1998 ^a | 26 | 7 | 0 | 33 | 26.9 |
| | | 2000 ^a | 9 | 5 | 0 | 14 | 55.6 |
| | | 2002 ^a | 0 | 0 | 0 | 0 | |
| | | 2004 ^a | 4 | 2 | 0 | 6 | 50.0 |
| | | 2005 ^c | 8 | 4 | 0 | 12 | 50.0 |
| | | 2006 ^a | 13 | 3 | 0 | 16 | 23.0 |
| | | 2008 ^a | 25 | 8 | 0 | 33 | 32.0 |
| | | 2010 ^a | 19 | 7 | 0 | 26 | 36.8 |

^a Summer Helicopter count.

^b Ground count.

^c Winter Helicopter count.

Table 3. Mountain goat harvest and drawing odds by hunt area, Upper Snake Region, 1997-present.

| Hunt area | Year | Permits | Harvest | | Hunter success (%) | Days/hunter | First-choice applicants | Drawing odds | |
|------------------|-----------------|---------|---------|-----|--------------------|-------------|-------------------------|--------------|-------|
| | | | M | F | | | | | |
| 50 | 1997 | 2 | 1 | 0 | 50 | 1.0 | 11 | 1:5.5 | |
| | 1998 | 2 | 1 | 1 | 100 | 2.5 | 17 | 1:8.5 | |
| | 1999 | 2 | 2 | 0 | 100 | 3.0 | 17 | 1:8.5 | |
| | 2000 | 2 | 1 | 1 | 100 | 1.0 | 30 | 1:15.0 | |
| | 2001 | 2 | 2 | 0 | 100 | 3.0 | 23 | 1:11.5 | |
| | 2002 | 2 | 2 | 0 | 100 | 7.3 | 22 | 1:11.0 | |
| | 2003 | 2 | 2 | 0 | 100 | 1.0 | 35 | 1:17.5 | |
| | 2004 | 2 | 1 | 1 | 100 | 2.0 | 19 | 1:9.5 | |
| | 2005 | 2 | 1 | 1 | 100 | 3.0 | 26 | 1:13.0 | |
| | 2006 | 2 | 1 | 0 | 50 | 7.0 | 15 | 1:7.5 | |
| | 2007 | 2 | 1 | 0 | 50 | 10.0 | 25 | 1:12.5 | |
| | 2008 | 2 | 0 | 1 | 50 | 2 | 29 | 1:14.5 | |
| 2009 | 2 | 1 | 1 | 100 | 6.5 | 17 | 1:8.5 | | |
| 51 | 1997 | 4 | 1 | 2 | 75 | 1.3 | 20 | 1:5.0 | |
| | 1998 | 4 | 3 | 1 | 100 | 4.5 | 40 | 1:10.0 | |
| | 1999 | 4 | 2 | 1 | 75 | 13.7 | 34 | 1:8.5 | |
| | 2000 | 4 | 3 | 1 | 100 | 2.0 | 33 | 1:8.3 | |
| | 2001 | 6 | 5 | 1 | 100 | 8.5 | 54 | 1:9.0 | |
| | 2002 | 6 | 3 | 3 | 100 | 5.3 | 49 | 1:8.2 | |
| | 2003 | 6 | 4 | 2 | 100 | 3.9 | 82 | 1:13.6 | |
| | 2004 | 6 | 2 | 2 | 66 | 4.5 | 71 | 1:11.8 | |
| | 2005 | 6 | 4 | 1 | 83 | 3.2 | 115 | 1:19.1 | |
| | 2006 | 6 | 5 | 0 | 83 | 4.8 | 111 | 1:18.5 | |
| 59A ^a | 2007 | 3 | 2 | 0 | 66 | 15.0 | 73 | 1:24.3 | |
| | 2008 | 3 | 1 | 1 | 66 | 16.5 | 51 | 1:17.0 | |
| | 2009 | 3 | 2 | 0 | 66 | 17.5 | 60 | 1:20 | |
| | 1997 | 5 | 4 | 1 | 100 | 3.6 | 43 | 1:8.6 | |
| | 1998 | 5 | 4 | 0 | 80 | 5.3 | 36 | 1:7.2 | |
| | 1999 | 5 | 3 | 1 | 80 | 7.5 | 49 | 1:9.8 | |
| | 2000 | 5 | 3 | 1 | 80 | 3.5 | 45 | 1:9.0 | |
| | 2001 | 5 | 2 | 2 | 80 | 4.5 | 34 | 1:6.8 | |
| | 67 ^a | 1997 | 24 | 11 | 9 | 83 | 3.0 | 192 | 1:8.0 |
| | | 1998 | 24 | 7 | 9 | 67 | 6.2 | 150 | 1:6.3 |
| 1999 | | 10 | 4 | 5 | 90 | 3.0 | 105 | 1:10.5 | |
| 2000 | | 10 | 5 | 4 | 90 | 4.1 | 83 | 1:8.3 | |
| 2001 | | 3 | 2 | 1 | 100 | 5.7 | 49 | 1:16.3 | |
| 2002 | | 3 | 3 | 0 | 100 | 10.3 | 45 | 1:15.0 | |
| 2005 | | 2 | 2 | 0 | 100 | 1.0 | 69 | 1:34.5 | |
| 2006 | | 2 | 0 | 2 | 100 | 4.5 | 46 | 1:23.0 | |
| 2007 | | 4 | 3 | 1 | 100 | 3.75 | 71 | 1:17.75 | |
| 2008 | | 4 | 4 | 0 | 100 | 2.75 | 78 | 1:20 | |

| Hunt area | Year | Permits | Harvest | | Hunter success (%) | Days/hunter | First-choice applicants | Drawing odds |
|-----------|------|---------|---------|---|--------------------|-------------|-------------------------|--------------|
| | | | M | F | | | | |
| | 2009 | 4 | 2 | 2 | 100 | 21.5 | 125 | 1:31 |

^a GMU 59A was closed beginning in 2002 and GMU 67 was closed in 2003 and 2004.

Table 4. Mountain goat translocation, Upper Snake Region, 1969-1997.

| Year | Capture site-GMU | Release site-GMU | Adults | | Kids | | Total |
|------|------------------|--------------------|--------|---|------|---|-------|
| | | | M | F | M | F | |
| 1969 | Snow Peak-9 | Palisades Creek-67 | 1 | 2 | 0 | 0 | 3 |
| | Black Mtn-9A | Palisades Creek-67 | 1 | 1 | 0 | 0 | 2 |
| 1970 | Black Mtn-9A | Black Canyon-67 | 3 | 0 | 0 | 0 | 3 |
| | Black Mtn-9A | Black Canyon-67 | 1 | 2 | 1 | 0 | 4 |
| 1989 | Mt Baldy-67 | Williams Creek-28 | 1 | 1 | 0 | 0 | 2 |
| 1990 | Mt Baldy-67 | Panther Creek-28 | 2 | 3 | 0 | 2 | 7 |
| 1991 | Mt Baldy-67 | Panther Creek-28 | 1 | 4 | 0 | 1 | 6 |
| 1992 | Mt Baldy-67 | Panther Creek-28 | 2 | 9 | 0 | 0 | 11 |
| 1994 | Mt Baird-67 | Square Top-21 | 4 | 6 | 0 | 0 | 10 |
| 1997 | Mt Baird-67 | Corn Lakes-21 | 4 | 6 | 0 | 0 | 10 |

**PROGRESS REPORT
SURVEYS AND INVENTORY**

| | | | |
|---|-------------------|--------------------|------------------------------------|
| STATE: | <u>Idaho</u> | JOB TITLE: | <u>Mountain Goat Surveys and</u> |
| PROJECT: | <u>W-170-R-34</u> | | <u>Inventories</u> |
| SUBPROJECT: | <u>7</u> | STUDY NAME: | <u>Big Game Population Status,</u> |
| STUDY: | <u>1</u> | | <u>Trends, Use, and Associated</u> |
| JOB: | <u>5</u> | | <u>Habitat Studies</u> |
| PERIOD COVERED: <u>July 1, 2009 to June 30, 2010</u> | | | |

SALMON REGION

GMUs 21, 21A, 27, 28, 29, 30, 30A, 36, 36A, 36B, 37, 37A

**Controlled Hunt Areas 27-1, 27-2, 27-3, 27-4, 27-5, 30, 36-1
36A-1, 36A-2, 36A-3, 36A-4, 36B, 37A**

Abstract

During 2009, 22 permits for mountain goats were available in 10 hunt areas. Twenty (91%) hunters were successful and 12 (60%) harvested animals were males. Chances of drawing a permit for mountain goats in Salmon Region were 1:9.4 in 2009.

Aerial surveys specifically for mountain goats were conducted in GMU 21 during February 2010. Surveys yielded 39 individuals (13% below that of previous surveys) with an overall kid ratio of 18:100 adults. Snow conditions for observing mountain goats were poor. Salmon Region translocated 24 mountain goats from the Tushar Mountains near Beaver, Utah, to Haynes Creek in GMU 29 during September 2007. Since the release, 17 goats have died of various causes. Since 1989, 85 mountain goats have been released and the region could accommodate release of 100 additional mountain goats.

Management Direction

Follow statewide management direction. Increase population, increase non-consumptive use of mountain goat herds, maintain harvest and recreational opportunity, and translocate mountain goats.

Climatic Conditions

Rainfall during summer months in 2009 was above average, with some cool, moist weather during spring and early summer. Vegetative growth appeared well above average. Winter conditions were generally moderate, with normal temperatures and below normal precipitation. In general, animals should have entered winter in above average body condition, and then encountered a mild winter, which should have produced moderate to high over-winter survival

for adults. Snow-pack (as measured at higher elevations) was approximately 69% of average by late winter. Onset of spring weather and associated plant phenology was later than normal in 2010. Water-year precipitation through June 2010 has been approximately 90% of average at both higher elevations (Snotel sites) and low elevations (Salmon weather station). Spring and early summer conditions in 2010 were cool and wetter than average.

Background

Most herds winter at low elevations on south-facing cliffs, where curl-leaf mountain-mahogany (*Cercocarpus ledifolius*) is a dominant forage species. These mountain goats move to higher elevations during summer where alpine, subalpine, or north-slope habitats are preferred. Mountain goats in GMUs 36 and 36A depend less on mountain-mahogany winter ranges. Some do migrate to south-facing cliffs, but most winter on high elevation ridgelines.

As with other herds in Idaho, population trends over the past 20-25 years have varied considerably among individual herds. Some herds, particularly in accessible areas, have been drastically reduced or eliminated. Other herds have declined and then recovered to near or above historical high numbers.

The USFS administers most mountain goat habitat, but the Bureau of Land Management also manages small amounts of critical winter range. Portions of GMUs 21, 27, 28, and 36 are designated wilderness.

Suitable mountain goat habitats are often widely separated. Thus, movement of mountain goats into low-density areas is slow and erratic. Translocating animals may accelerate processes of repopulating vacant habitats and stimulating increases in stagnant herds.

Population Surveys

Historical survey information indicates relatively wide fluctuations in mountain goat populations (Table 1). During early 2010, 39 mountain goats were observed during aerial surveys of GMU 21, approximately 13% below those from the previous survey. Observed age ratio was 18.2 kids per 100 adults. An additional 37 goats (33 adults, 4 juvenile) were observed incidentally to an elk survey in GMU 28.

Twenty of 24 goats translocated to GMU 29 were fitted with radio collars. As a result, goats were surveyed to detect observation bias for future development of a sightability model. We conducted 2 sightability development surveys (February and March 2010). Crude observation rate of groups averaged 82% across all seasons. Trials will continue in fiscal year 2011. Model development will include habitat and animal variables (habitat, vegetative cover, snow cover, level of snow tracking conducted, group size, activity) to determine impact on observation bias.

Unfortunately, the translocated goats have had low survival and poor recruitment. In the first year after the translocation, 3 goats died (1 = capture myopathy, 1 = mt lion predation, 1 = unk). From July 2008 – June 2009, 9 radio-collared goats died (3 = malnutrition, 2 = mt lion predation, 1 = falling, 1 = hunter harvest, 2 = unk). From July 2009 – June 2010, 5 goats died (2 =

malnutrition, 3 = unk). During spring 2008, 2 kids were seen with nannies; however neither kid was seen after September 2008. In the spring of 2009, 3 of the remaining 7 nannies produced a kid, but only 1 kid survived until spring 2010. One of the remaining 5 nannies produced a kid in spring 2010. Survival and recruitment will continue to be monitored.

Harvest Characteristics

The 1991-1995 Mountain Goat Management Plan set criteria for establishing permit levels: 1) set permit levels so annual harvest does not exceed 5% of adult segment of a herd, except 15% of adults can be harvested in highly productive herds if at least 15% of adult females are producing twins; and 2) authorize hunts only for herds consisting of ≥ 50 individuals.

From 1975-1982, 21 mountain goat hunts were completely closed in response to declining populations. Permits in remaining hunts were reduced to a low of 10 in 1985 (Table 2). From 1986 to 1994, the number of permits increased to 32 as several hunts were reinstated and permit levels were increased in existing hunts. Permits were reduced in 1995 and fluctuated between 21 (1995) to 25 (2002) to 18 in 2003 and 2004 (Tables 2 and 3). Based on increased mountain goat numbers in several hunt areas, permit levels for 2005 were significantly increased. One new hunt area (37A) was opened for harvest and 2 hunts were reinstated (27-2 and 36-1). For the 2007-2008 regulation cycle, 2 hunt areas were closed (27-3 and 30), primarily because of declining goat numbers and high female harvest rates over time. One new hunt area was opened (27-5) in the upper Middle Fork of Salmon River drainage.

Harvest and hunter information was compiled from Big Game Mortality Reports (BGMRs). Successful hunters must present mountain goat horns to a Department representative within 10 days of harvest and complete a Big Game Mortality Report. Mountain goat season structure (Appendix A) has been unchanged since 1991. Ten controlled hunts with 22 permits were authorized for 2009 in Salmon Region. Hunters could harvest a mountain goat of either sex, except females accompanied by kids were protected. Success among 22 permitted hunters was 91% in 2009. Of 20 mountain goats, 12 were males. During 75-day seasons, region-wide hunter success has averaged 85% since 1995 and males have comprised 68% of the harvest.

Prior to 1986, chances of drawing a Salmon Region mountain goat permit were very low, averaging 5%. Since 1986, hunters applying for a mountain goat permit have been restricted to only that controlled hunt application. From 1986 to 1994, drawing success substantially increased, averaging 20%. When mountain goat permit numbers were reduced in 1995, applicant numbers did not drop proportionally and chances of drawing were <14%. Since 2003, drawing success has stabilized at approximately 11%. Drawing odds for individual hunts vary widely from year to year.

Habitat Conditions

Mountain goat herds along Panther Creek, Bitterroot Mountains, Lemhi Range, Middle Fork Salmon River, and Squaw Creek are largely migratory. Winter ranges are low-elevation, south-facing cliffs where mountain-mahogany is the dominant forage species. These mountain goats

generally move to higher-elevation, subalpine habitats in summer. Some mountain goats along the Idaho border summer in Montana.

During the past 15-20 years, elk numbers have increased dramatically throughout Salmon Region. Portions of mountain goat winter ranges in GMUs 21, 21A, 27, 29, 30, and 37A now receive substantial use by elk during winter. Capacity of these ranges to support mountain goats may be reduced because of competition with elk.

There is little overlap between elk and mountain goats on critical winter and summer ranges in GMUs 36 and 36A. Habitat conditions are believed to be stable and able to accommodate some increase in mountain goat populations, primarily in GMU 36. However, vegetation changes related to succession and climate change may negatively impact carrying capacity in alpine and subalpine habitats.

Capture and Translocation

Ten potential release sites have been approved in Salmon Region (Table 4) with more sites pending. Since 1989, 85 mountain goats have been released within the region (Table 5).

Management Implications

Most mountain goat herds in Salmon Region generally are stable, whether or not herds are hunted. Permit levels have been adjusted to reflect current populations.

Translocation of mountain goats into historical range will continue to be a priority. Release sites along Middle Fork Salmon River have high esthetic values because of the $\geq 8,000$ river tourists during summer. Release sites will remain closed to hunting until populations increase to huntable levels.

GMUs 36 and 36A are very popular areas for human recreation during both summer and winter. Visible mountain goat herds in these GMUs, therefore, fulfill a valuable esthetic role in addition to providing harvest. A few recreational activities, such as snowmobiling and heli-skiing, have potential to disturb wintering mountain goats in some areas. Regulation of these activities needs to be coordinated with staff of the Sawtooth National Recreation Area.

Table 1. Mountain goat surveys by hunt area, Salmon Region, 1988-present.

| Hunt area | Year | Inclusive location | Adults | Kids | Unk. | Total | Kids/100 adults |
|-----------------------|-------------------|----------------------------|---------------------------|------|------|-------|-----------------|
| 21 | 1996 | Lost Trail - Hughes Cr. | 8 | 2 | 0 | 10 | 25.0 |
| | | Hughes Cr. - Horse Cr. | 26 | 4 | 0 | 30 | 15.4 |
| | 2001 | Hughes Cr. - Horse Cr. | 5 | 1 | 0 | 6 | 20.0 |
| | 2005 | Lost Trail - Hughes Cr. | 7 | 2 | 0 | 9 | 28.6 |
| | | Hughes Cr. - Horse Cr. | 28 | 8 | 0 | 36 | 28.6 |
| | 2010 | Lost Trail - Hughes Cr. | 14 | 1 | 0 | 15 | 7.1 |
| | | Hughes Cr. - Horse Cr. | 19 | 5 | 0 | 24 | 26.3 |
| 27 | 1993 ^a | Waterfall Cr. - Goat Cr. | 15 | 1 | 0 | 16 | 6.7 |
| | | Big Cr. - Soldier Cr. | 0 | 0 | 0 | 0 | 0.0 |
| | 1999 ^a | Rapid River - Headwaters | 21 | 3 | 0 | 24 | 14.3 |
| | | Waterfall Cr. - Goat Cr. | 14 | 1 | 0 | 15 | 7.1 |
| | | Big Cr. - Soldier Cr. | 5 | 1 | 0 | 6 | 20.0 |
| | | Marble Cr. - Indian Cr. | 18 | 2 | 0 | 20 | 11.1 |
| | 2002 ^b | Marble Cr. - Indian Cr. | 6 | 1 | 0 | 7 | 16.7 |
| | | Upper Middle Fork | 11 | 2 | 0 | 13 | 18.2 |
| | 2004 | Waterfall Cr. - Goat Cr. | 15 | 2 | 0 | 17 | 13.3 |
| | | Big Cr. - Soldier Cr. | 4 | 0 | 0 | 4 | 0.0 |
| | 2006 | Rapid River - Headwaters | 35 | 6 | 0 | 41 | 17.1 |
| | | Waterfall Cr. - Goat Cr. | 10 | 1 | 0 | 11 | 10.0 |
| | | Big Cr. - Soldier Cr. | 3 | 1 | 0 | 4 | 33.0 |
| | | Marble Cr. - Pistol Cr. | 28 | 5 | 0 | 33 | 17.9 |
| | 2008 ^d | Waterfall Cr - Goat Cr. | 6 | 0 | 0 | 6 | 0.0 |
| Big Cr. - Soldier Cr. | | 1 | 0 | 0 | 1 | 0.0 | |
| 27-1 | 1988 | E. Fork Mayfield Cr. | 17 | 4 | 0 | 21 | 23.5 |
| | 1994 | E. Fork Mayfield Cr. | 10 | 1 | 0 | 11 | 10.0 |
| | 1995 | E. Fork Mayfield Cr. | 16 | 4 | 0 | 20 | 25.0 |
| | 1997 | E. Fork Mayfield Cr. | 17 | 2 | 0 | 19 | 11.8 |
| | 1999 ^a | E. Fork Mayfield Cr. | 7 | 1 | 0 | 8 | 14.3 |
| | 2002 ^a | Mayfield Cr. - Yankee Fork | 8 | 2 | 0 | 10 | 25.0 |
| | 2006 ^b | E. Fork Mayfield Cr. | 5 | 1 | 0 | 6 | 20.0 |
| | 2007 | Mayfield Cr. - Yankee Fork | 12 | 3 | 0 | 15 | 25.0 |
| 27-2 | 1988 | Trail Cr. - China Cr. | 54 | 11 | 0 | 65 | 20.4 |
| | 1994 | Trail Cr. - China Cr. | 36 | 5 | 0 | 41 | 13.9 |
| | 1995 | Trail Cr. - China Cr. | 50 | 6 | 0 | 56 | 12.0 |
| | 1997 | Trail Cr. - China Cr. | 92 | 10 | 0 | 102 | 10.9 |
| | 1999 ^a | Trail Cr. - China Cr. | 37 | 4 | 0 | 41 | 10.8 |
| | 2002 ^a | Trail Cr. - China Cr. | 38 | 7 | 0 | 45 | 18.4 |
| | 2007 | Trail Cr. - China Cr. | 40 | 5 | 0 | 45 | 12.5 |
| | 27-3 | 1993 ^a | Meyers Cove - Falconberry | 37 | 7 | 0 | 44 |
| 1999 ^a | | Meyers Cove - Falconberry | 37 | 4 | 0 | 41 | 10.8 |
| 2002 ^a | | Meyers Cove - Falconberry | 15 | 3 | 0 | 18 | 20.0 |
| 2004 | | Meyers Cove - Falconberry | 16 | 3 | 0 | 19 | 18.8 |
| 2006 | | Meyers Cove - Falconberry | 18 | 0 | 0 | 18 | 0 |

Table 1. Continued.

| Hunt area | Year | Inclusive location | Adults | Kids | Unk. | Total | Kids/100 adults |
|----------------|-------------------|---|--------|------|------|-------|-----------------|
| 27-4 | 1993 ^a | Yellowjacket Cr. - Waterfall Cr. | 49 | 8 | 0 | 57 | 16.3 |
| | 1999 ^a | Yellowjacket Cr. - Waterfall Cr. | 57 | 6 | 0 | 63 | 10.5 |
| | 2001 | Camas Cr. - Yellowjacket Cr. | 30 | 7 | 0 | 37 | 23.3 |
| | 2002 ^a | Yellowjacket Cr. - Waterfall Cr. | 2 | 3 | 0 | 5 | 150.0 |
| | | Camas Cr. - Yellowjacket Cr. ^b | 6 | 0 | 0 | 6 | 0.0 |
| | 2004 | Yellowjacket Cr. - Waterfall Cr. | 36 | 11 | 0 | 47 | 30.6 |
| | 2005 ^b | Camas Cr. - Reservoir Cr. | 24 | 4 | 0 | 28 | 16.7 |
| | 2006 | Yellowjacket Cr. - Waterfall Cr. | 38 | 12 | 0 | 50 | 31.6 |
| | 2008 ^d | Yellowjacket Cr - Waterfall Cr. | 8 | 1 | 0 | 9 | 12.5 |
| | | Camas Cr. - Yellowjacket Cr. | 2 | 0 | 0 | 2 | 0.0 |
| 28 | 1996 | Cobalt - Garden Cr. | 10 | 0 | 0 | 10 | 0.0 |
| | | Williams Cr. | 2 | 2 | 0 | 4 | 100.0 |
| | | Iron Cr. - Moyer Cr. | 11 | 5 | 0 | 16 | 45.5 |
| | 1999 ^a | Upper Camas Cr. | 5 | 0 | 0 | 5 | 0.0 |
| | | Iron Cr. - Moyer Cr. ^b | 21 | 2 | 0 | 23 | 9.5 |
| | 2001 | Cobalt - Garden Cr. | 2 | 0 | 0 | 2 | 0.0 |
| | | Iron Cr. - Moyer Cr. | 17 | 3 | 0 | 20 | 17.6 |
| | | Napias Cr. | 3 | 1 | 0 | 4 | 33.3 |
| | 2002 | Williams Cr. | 4 | 1 | 0 | 5 | 25.0 |
| | 2005 | Iron Cr. - Williams Cr. | 9 | 6 | 0 | 15 | 66.6 |
| | | Panther Cr. | 19 | 4 | 0 | 23 | 21.1 |
| | 2010 ^b | Iron Cr. - Williams Cr. | 10 | 1 | 0 | 11 | 10.0 |
| | | Panther Cr. | 14 | 2 | 0 | 16 | 14.3 |
| Upper Camas Cr | | 9 | 1 | 0 | 10 | 11.1 | |
| 30 | 1988 | Sheep Cr. - Goat Mt. | 116 | 22 | 0 | 138 | 19.0 |
| | 1996 | Sheep Cr. - Goat Mt. | 81 | 4 | 0 | 85 | 4.9 |
| | 1997 | Sheep Cr. - Goat Mt. | 73 | 16 | 0 | 89 | 21.9 |
| | 2002 ^a | Sheep Cr. - Goat Mt. | 53 | 2 | 0 | 55 | 3.8 |
| | 2006 | Sheep Cr. - Goat Mt. | 45 | 7 | 0 | 52 | 15.6 |
| 36 | 1988 | Beaver Cr. - Galena | 32 | 7 | 0 | 39 | 21.9 |
| | 1994 | Beaver Cr. - Galena | 27 | 2 | 0 | 29 | 7.4 |
| | 2003 | Beaver Cr. - Galena | 38 | 4 | 0 | 42 | 10.5 |
| | 2004 | Beaver Cr. - Galena | 35 | 10 | 0 | 45 | 28.6 |
| | 2009 | Beaver Cr. - Galena | 20 | 6 | 0 | 26 | 30.0 |
| 36-1 | 1988 | Elk Cr. - Redfish Lake | 27 | 7 | 0 | 34 | 25.9 |
| | 1994 | Elk Cr. - Redfish Lake | 22 | 0 | 0 | 22 | 0.0 |
| | 2003 ^c | Elk Cr. - Redfish Lake | 14 | 5 | 0 | 19 | 35.7 |
| | 2004 | Elk Cr. - Redfish Lake | 50 | 13 | 0 | 63 | 26.0 |
| | 2009 | Elk Cr. - Redfish Lake | 26 | 4 | 0 | 30 | 15.4 |
| 36-2 | 1988 | Redfish Lake - Alturas Cr. | 39 | 7 | 0 | 46 | 17.9 |
| | 1994 | Redfish Lake - Alturas Cr. | 28 | 7 | 0 | 35 | 25.0 |
| | 2003 | Redfish Lake - Alturas Cr. | 44 | 5 | 0 | 49 | 11.4 |
| | 2004 | Redfish Lake - Alturas Cr. | 51 | 11 | 0 | 62 | 21.6 |

Table 1. Continued.

| Hunt area | Year | Inclusive location | Adults | Kids | Unk. | Total | Kids/100 adults |
|-----------|-------------------|---|--------|------|------|-------|-----------------|
| 36A-1 | 2009 | Redfish Lake - Alturas Cr. | 40 | 17 | 0 | 57 | 42.5 |
| | 1988 | E Pass Cr. - W Pass Cr. | 37 | 13 | 0 | 50 | 35.1 |
| | 1994 | E Pass Cr. - W Pass Cr. | 38 | 10 | 0 | 48 | 26.3 |
| | 2002 ^a | E Pass Cr. - W Pass Cr. | 28 | 4 | 0 | 32 | 14.3 |
| | 2004 | E Pass Cr. - W Pass Cr. | 61 | 16 | 0 | 77 | 29.3 |
| 36A-2 | 2008 | E Pass Cr. - W Pass Cr. | 67 | 13 | 0 | 80 | 19.4 |
| | 1988 | Above W Pass Cr. | 33 | 9 | 0 | 42 | 27.3 |
| | 1994 | Above W Pass Cr. | 36 | 7 | 0 | 43 | 19.4 |
| | 2002 ^a | Above W Pass Cr. | 21 | 6 | 0 | 27 | 28.6 |
| | 2004 | Above W Pass Cr. | 33 | 9 | 0 | 42 | 27.3 |
| 36A-3 | 2008 | Above W Pass Cr. | 36 | 9 | 0 | 45 | 25.0 |
| | 1988 | Warm Springs Cr. - Wickiup Cr. | 61 | 18 | 0 | 79 | 29.5 |
| | 1994 | Warm Springs Cr. - Wickiup Cr. | 48 | 8 | 0 | 56 | 16.7 |
| | 2002 ^a | Warm Springs Cr. - Wickiup Cr. | 22 | 1 | 0 | 23 | 4.5 |
| | 2004 | Warm Springs Cr. - Wickiup Cr. | 49 | 15 | 0 | 64 | 30.6 |
| 36A-4 | 2008 | Warm Springs Cr. - Wickiup Cr. | 44 | 8 | 0 | 52 | 18.2 |
| | 1988 | Germania Cr. - 4 th July Cr. | 86 | 21 | 0 | 107 | 24.4 |
| | 1994 | Germania Cr. - 4 th July Cr. | 65 | 6 | 0 | 71 | 9.2 |
| | 2002 ^a | Germania Cr. - 4 th July Cr. | 33 | 5 | 0 | 38 | 15.2 |
| | 2004 | Germania Cr. - 4 th July Cr. | 65 | 21 | 0 | 86 | 32.3 |
| 36B | 2008 | Germania Cr. - 4 th July Cr. | 47 | 11 | 0 | 58 | 23.4 |
| | 1985 | Mill Cr. - Ramey Cr. | 52 | 23 | 0 | 75 | 44.2 |
| | 1986 | Mill Cr. - Ramey Cr. | 37 | 16 | 0 | 53 | 43.2 |
| | 1988 | Mill Cr. - Ramey Cr. | 73 | 20 | 0 | 93 | 27.4 |
| | 1994 | Mill Cr. - Ramey Cr. | 92 | 23 | 2 | 117 | 25.0 |
| | 2002 ^a | Mill Cr. - Ramey Cr. | 24 | 2 | 0 | 26 | 8.3 |
| 29/37A | 2006 | Mill Cr. - Ramey Cr. | 67 | 20 | 0 | 87 | 29.9 |
| | 1988 | Above Patterson Cr. | 9 | 1 | 0 | 10 | 11.1 |
| | | Mahogany - Patterson | 21 | 3 | 0 | 24 | 14.3 |
| | | Morse Cr. - Falls Cr. | 12 | 2 | 0 | 14 | 16.7 |
| | | McKim Cr. - Tater Cr. | 10 | 1 | 0 | 11 | 10.0 |
| | 2003 | Above Patterson Cr. & other | 9 | 0 | 0 | 9 | 0.0 |
| | | Mahogany - Patterson | 13 | 2 | 0 | 15 | 15.4 |
| | | Morse Cr. - Falls Cr. | 7 | 0 | 0 | 7 | 0.0 |
| | | Poison Peak - Tater Cr. | 13 | 3 | 0 | 16 | 23.1 |
| | 2007 | Above Patterson Cr. & other | 6 | 2 | 0 | 8 | 25.0 |
| | | Mahogany - Patterson | 2 | 0 | 0 | 2 | 0.0 |
| | | Morse Cr. - Falls Cr. | 6 | 1 | 0 | 7 | 16.7 |
| | | Poison Peak - Tater Cr. | 5 | 1 | 0 | 6 | 20.0 |

^a Spring green-up count.

^b Incidental to elk survey.

^c Incomplete survey covered Redfish Lake to Fishhook Cr.

^d Incidental to bighorn sheep survey.

Table 2. Mountain goat harvest and drawing odds, Salmon Region, 1979-present.

| Year | Permits | Harvest | | | Hunter success (%) | First-choice applicants | Drawing odds |
|------|-----------------|---------|----|-------|--------------------|-------------------------|--------------|
| | | M | F | Total | | | |
| 1979 | 93 | 18 | 10 | 28 | 30 | 1,833 | 1:19.7 |
| 1980 | 40 | 11 | 4 | 15 | 38 | 1,524 | 1:38.1 |
| 1981 | 23 | 10 | 6 | 16 | 70 | | |
| 1982 | 20 | 6 | 6 | 12 | 60 | 456 | 1:22.8 |
| 1983 | 20 | 7 | 7 | 14 | 70 | 350 | 1:17.5 |
| 1984 | 20 | 12 | 5 | 17 | 85 | 270 | 1:13.5 |
| 1985 | 10 | 6 | 0 | 6 | 60 | 178 | 1:17.8 |
| 1986 | 13 | 8 | 2 | 10 | 77 | 65 | 1:5.0 |
| 1987 | 13 | 7 | 5 | 12 | 92 | 67 | 1:5.2 |
| 1988 | 13 | 5 | 2 | 7 | 54 | 80 | 1:6.2 |
| 1989 | 29 | 17 | 6 | 23 | 79 | 95 | 1:3.3 |
| 1990 | 29 | 13 | 7 | 20 | 69 | 130 | 1:4.5 |
| 1991 | 29 | 18 | 8 | 26 | 90 | 174 | 1:6.0 |
| 1992 | 29 | 18 | 7 | 25 | 86 | 149 | 1:5.1 |
| 1993 | 32 | 18 | 7 | 25 | 78 | 165 | 1:5.2 |
| 1994 | 32 | 20 | 6 | 26 | 81 | 172 | 1:5.4 |
| 1995 | 21 | 13 | 6 | 19 | 90 | 158 | 1:7.5 |
| 1996 | 21 | 15 | 4 | 19 | 90 | 143 | 1:6.8 |
| 1997 | 22 | 10 | 8 | 18 | 82 | 144 | 1:6.5 |
| 1998 | 22 | 11 | 11 | 22 | 100 | 159 | 1:7.2 |
| 1999 | 24 | 17 | 5 | 22 | 92 | 140 | 1:5.8 |
| 2000 | 24 ^a | 14 | 5 | 19 | 86 | 201 | 1:8.4 |
| 2001 | 27 ^a | 14 | 9 | 23 | 85 | 155 | 1:6.2 |
| 2002 | 25 | 14 | 7 | 21 | 84 | 185 | 1:7.4 |
| 2003 | 18 | 10 | 4 | 14 | 78 | 171 | 1:9.5 |
| 2004 | 18 | 12 | 5 | 17 | 94 | 160 | 1:8.9 |
| 2005 | 29 | 16 | 7 | 23 | 79 | 237 | 1:8.2 |
| 2006 | 29 | 19 | 4 | 23 | 79 | 252 | 1:8.7 |
| 2007 | 24 | 14 | 5 | 19 | 79 | 221 | 1:9.2 |
| 2008 | 24 | 10 | 8 | 18 | 75 | 308 | 1:12.8 |
| 2009 | 22 | 12 | 8 | 20 | 91 | 206 | 1:9.4 |

^a Two of these permits were deferred until 2001 season because of wildfires.

Table 3. Mountain goat harvest and drawing odds by hunt area, Salmon Region, 1997-present.

| Hunt area | Year | Permits | Harvest | | Hunter success (%) | Days/hunter | First-choice applicants | Drawing odds |
|-----------|------|----------------|---------|-----|--------------------|-------------|-------------------------|--------------|
| | | | M | F | | | | |
| 27-2 | 1997 | 2 | 2 | 0 | 100 | 4.0 | 7 | 1:3.5 |
| | 1998 | 2 | 1 | 1 | 100 | 7.0 | 23 | 1:11.5 |
| | 1999 | 2 | 1 | 1 | 100 | 1.5 | 10 | 1:5.0 |
| | 2000 | 2 | 1 | 1 | 100 | 3.0 | 16 | 1:8.0 |
| | 2001 | 2 | 0 | 1 | 50 | 3.0 | 14 | 1:7.0 |
| | 2002 | 2 | 2 | 0 | 100 | 5.5 | 10 | 1:5.0 |
| | 2005 | 1 | 1 | 0 | 100 | 2.0 | 11 | 1:11.0 |
| | 2006 | 1 | 1 | 0 | 100 | 9.0 | 10 | 1:10.0 |
| | 2007 | 1 | 1 | 0 | 100 | 2.0 | 7 | 1:7.0 |
| | 2008 | 1 | 0 | 1 | 100 | 1.0 | 23 | 1:23.0 |
| 27-3 | 1997 | 2 | 1 | 0 | 50 | 4.0 | 10 | 1:5.0 |
| | 1998 | 2 | 1 | 1 | 100 | 3.0 | 12 | 1:6.0 |
| | 1999 | 2 | 1 | 0 | 50 | 4.0 | 14 | 1:7.0 |
| | 2000 | 2 | 1 | 1 | 100 | 1.5 | 13 | 1:6.5 |
| | 2001 | 2 | 0 | 1 | 50 | 2.0 | 8 | 1:4.0 |
| | 2002 | 2 | 0 | 2 | 100 | 12.0 | 11 | 1:5.5 |
| | 2003 | 2 | 0 | 2 | 100 | 2.0 | 10 | 1:5.0 |
| | 2004 | 2 | 2 | 0 | 100 | 14.0 | 9 | 1:4.5 |
| | 2005 | 1 | 0 | 1 | 100 | | 8 | 1:8.0 |
| | 2006 | 1 | 1 | 0 | 100 | 2.0 | 5 | 1:5.0 |
| 27-4 | 1999 | 2 | 2 | 0 | 100 | 4.8 | 13 | 1:6.5 |
| | 2000 | 2 ^a | 0 | 0 | | | 13 | 1:6.5 |
| | 2001 | 4 ^a | 1 | 2 | 75 | 2.7 | 18 | 1:9.0 |
| | 2002 | 2 | 0 | 2 | 100 | 6.0 | 8 | 1:4.0 |
| | 2003 | 2 | 0 | 1 | 50 | 6.0 | 18 | 1:9.0 |
| | 2004 | 2 | 1 | 0 | 50 | 10.0 | 11 | 1:5.5 |
| | 2005 | 2 | 0 | 0 | 0 | | 15 | 1:7.5 |
| | 2006 | 2 | 0 | 0 | 0 | | 16 | 1:8.0 |
| | 2007 | 2 | 1 | 1 | 100 | 4.5 | 13 | 1:6.5 |
| 27-5 | 2008 | 2 | 1 | 1 | 100 | 5.5 | 15 | 1:7.5 |
| | 2009 | 2 | 1 | 1 | 100 | 8.5 | 21 | 1:10.5 |
| | 2007 | 2 | 0 | 2 | 100 | 3.0 | 11 | 1:5.5 |
| | 2008 | 2 | 0 | 0 | 0 | | 16 | 1:8.0 |
| 30 | 2009 | 2 | 0 | 2 | 100 | 2.0 | 15 | 1:7.5 |
| | 1997 | 3 | 1 | 2 | 100 | 6.3 | 32 | 1:10.7 |
| | 1998 | 3 | 2 | 1 | 100 | 10.0 | 23 | 1:7.7 |
| | 1999 | 3 | 1 | 2 | 100 | 5.7 | 10 | 1:3.3 |
| | 2000 | 3 | 3 | 0 | 100 | 3.5 | 27 | 1:9.0 |
| | 2001 | 3 | 1 | 2 | 100 | 3.7 | 19 | 1:6.3 |
| | 2002 | 3 | 1 | 2 | 100 | 4.7 | 23 | 1:7.7 |
| | 2003 | 2 | 1 | 1 | 100 | 7.0 | 14 | 1:7.0 |
| 2004 | 2 | 2 | 0 | 100 | 4.0 | 36 | 1:18.0 | |

Table 3. Continued.

| Hunt area | Year | Permits | Harvest | | Hunter success (%) | Days/hunter | First-choice applicants | Drawing odds |
|-----------|-------|---------|----------------|----------------|--------------------|-------------|-------------------------|--------------|
| | | | M | F | | | | |
| 36-1 | 2005 | 2 | 1 | 1 | 100 | 3.5 | 22 | 1:11.0 |
| | 2006 | 2 | 2 | 0 | 100 | 3.0 | 23 | 1:11.5 |
| | 2005 | 4 | 1 | 1 | 50 | 4.5 | 26 | 1:6.5 |
| | 2006 | 4 | 2 | 0 | 50 | 16.0 | 14 | 1:3.5 |
| | 2007 | 4 | 3 | 0 | 75 | 1.3 | 29 | 1:7.3 |
| | 2008 | 4 | 1 | 2 | 75 | 3.7 | 29 | 1:7.3 |
| 36A-1 | 2009 | 4 | 2 | 2 | 100 | 10.3 | 23 | 1:5.8 |
| | 1997 | 3 | 2 | 0 | 67 | 2.0 | 15 | 1:5.0 |
| | 1998 | 3 | 1 | 2 | 100 | 2.0 | 16 | 1:5.3 |
| | 1999 | 3 | 2 | 0 | 67 | 3.0 | 8 | 1:2.7 |
| | 2000 | 3 | 2 | 0 | 67 | 5.0 | 21 | 1:7.0 |
| | 2001 | 4 | 3 | 1 | 100 | 4.3 | 17 | 1:4.3 |
| | 2002 | 4 | 2 | 0 | 50 | 8.0 | 27 | 1:6.8 |
| | 2003 | 2 | 2 | 0 | 100 | 5.5 | 14 | 1:7.0 |
| | 2004 | 2 | 0 | 2 | 100 | 3.0 | 21 | 1:10.5 |
| | 2005 | 5 | 3 ^b | 1 ^b | 80 | 7.3 | 56 | 1:11.2 |
| | 2006 | 5 | 3 ^b | 1 ^b | 80 | 4.0 | 44 | 1:8.8 |
| | 2007 | 4 | 3 | 1 | 100 | 3.7 | 37 | 1:9.3 |
| | 2008 | 4 | 2 | 1 | 75 | 2.3 | 78 | 1:19.5 |
| | 2009 | 4 | 1 | 1 | 50 | 2.0 | 33 | 1:8.3 |
| 36A-2 | 1997 | 2 | 1 | 1 | 100 | 4.5 | 7 | 1:3.5 |
| | 1998 | 2 | 0 | 2 | 100 | 1.5 | 17 | 1:8.5 |
| | 1999 | 2 | 2 | 0 | 100 | 4.5 | 8 | 1:4.0 |
| | 2000 | 2 | 1 | 1 | 100 | 3.5 | 27 | 1:13.5 |
| | 2001 | 2 | 1 | 1 | 100 | 5.5 | 13 | 1:6.5 |
| | 2002 | 2 | 2 | 0 | 100 | 3.5 | 12 | 1:6.0 |
| | 2003 | 2 | 1 | 0 | 50 | 14.0 | 16 | 1:8.0 |
| | 2004 | 2 | 2 | 0 | 100 | 4.5 | 10 | 1:5.0 |
| | 2005 | 3 | 1 | 1 | 67 | 4.0 | 33 | 1:11.0 |
| | 2006 | 3 | 1 | 1 | 67 | 2.0 | 12 | 1:4.0 |
| | 2007 | 2 | 2 | 0 | 100 | 2.0 | 21 | 1:10.5 |
| | 2008 | 2 | 2 | 0 | 100 | 3.0 | 14 | 1:7.0 |
| | 2009 | 1 | 1 | 0 | 100 | 2.0 | 16 | 1:16.0 |
| | 36A-3 | 1997 | 2 | 1 | 1 | 100 | 2.5 | 12 |
| 1998 | | 2 | 2 | 0 | 100 | 3.0 | 12 | 1:6.0 |
| 1999 | | 2 | 2 | 0 | 100 | 3.0 | 11 | 1:5.5 |
| 2000 | | 2 | 2 | 0 | 100 | 3.5 | 13 | 1:6.5 |
| 2001 | | 2 | 1 | 0 | 50 | 2.0 | 14 | 1:7.0 |
| 2002 | | 2 | 2 | 0 | 100 | 2.0 | 15 | 1:7.5 |
| 2003 | | 2 | 1 | 0 | 50 | 3.0 | 15 | 1:7.5 |
| 2004 | | 2 | 2 | 0 | 100 | 1.0 | 19 | 1:9.5 |
| 2005 | | 2 | 2 | 0 | 100 | 6.5 | 19 | 1:9.5 |
| 2006 | | 2 | 2 | 0 | 100 | 2.0 | 17 | 1:8.5 |

Table 3. Continued.

| Hunt area | Year | Permits | Harvest | | Hunter success (%) | Days/hunter | First-choice applicants | Drawing odds |
|-----------|------|---------|---------|---|--------------------|-------------|-------------------------|--------------|
| | | | M | F | | | | |
| 36A-4 | 2007 | 2 | 0 | 0 | 0 | | 28 | 1:14.0 |
| | 2008 | 2 | 1 | 1 | 100 | 9.0 | 14 | 1:7.0 |
| | 2009 | 3 | 2 | 1 | 100 | 1.3 | 38 | 1:12.7 |
| | 1997 | 4 | 0 | 3 | 75 | 3.0 | 31 | 1:7.8 |
| | 1998 | 4 | 2 | 2 | 100 | 5.2 | 33 | 1:8.2 |
| | 1999 | 4 | 3 | 1 | 100 | 5.3 | 31 | 1:7.8 |
| | 2000 | 4 | 1 | 2 | 75 | 1.3 | 39 | 1:9.8 |
| | 2001 | 4 | 4 | 0 | 100 | 3.5 | 33 | 1:8.3 |
| | 2002 | 4 | 2 | 1 | 75 | 3.3 | 36 | 1:9.0 |
| | 2003 | 2 | 2 | 0 | 100 | 1.5 | 35 | 1:17.5 |
| | 2004 | 2 | 1 | 1 | 100 | 1.0 | 17 | 1:8.5 |
| | 2005 | 4 | 3 | 1 | 100 | 2.8 | 45 | 1:11.3 |
| | 2006 | 4 | 2 | 2 | 100 | 8.0 | 36 | 1:9.0 |
| | 2007 | 3 | 1 | 1 | 67 | 1.0 | 29 | 1:9.7 |
| 36B | 2008 | 3 | 0 | 1 | 33 | 1.0 | 36 | 1:12.0 |
| | 2009 | 2 | 2 | 0 | 100 | 3.0 | 19 | 1:9.5 |
| | 1997 | 4 | 2 | 2 | 100 | 3.0 | 30 | 1:7.5 |
| | 1998 | 4 | 2 | 2 | 100 | 3.5 | 23 | 1:5.8 |
| | 1999 | 4 | 3 | 1 | 100 | 6.0 | 35 | 1:8.8 |
| | 2000 | 4 | 3 | 0 | 75 | 2.3 | 32 | 1:8.0 |
| | 2001 | 4 | 3 | 1 | 100 | 10.0 | 19 | 1:4.8 |
| | 2002 | 4 | 4 | 0 | 100 | 1.8 | 43 | 1:10.8 |
| | 2003 | 4 | 3 | 0 | 75 | 3.0 | 49 | 1:12.3 |
| | 2004 | 4 | 2 | 2 | 100 | 3.8 | 37 | 1:9.3 |
| | 2005 | 4 | 3 | 1 | 100 | 5.8 | 28 | 1:7.0 |
| | 2006 | 4 | 4 | 0 | 100 | 2.0 | 63 | 1:15.8 |
| | 2007 | 3 | 2 | 0 | 67 | 2.5 | 39 | 1:13.0 |
| | 2008 | 3 | 2 | 1 | 100 | 2.7 | 35 | 1:11.7 |
| 37A | 2009 | 2 | 1 | 1 | 100 | 2.0 | 19 | 1:9.5 |
| | 2005 | 1 | 1 | 0 | 100 | 3.0 | 13 | 1:13.0 |
| | 2006 | 1 | 1 | 0 | 100 | 16.0 | 12 | 1:12.0 |
| | 2007 | 1 | 1 | 0 | 100 | 4.0 | 7 | 1:7.0 |
| | 2008 | 1 | 1 | 0 | 100 | 7.0 | 48 | 1:48.0 |
| | 2009 | 1 | 1 | 0 | 100 | 3.0 | 12 | 1:12.0 |

^a Both permits were deferred until 2001 season.

^b Includes 1 animal actually harvested in area 36A-2.

Table 4. Approved mountain goat release sites, Salmon Region.

| GMU | Location | Release method | No. goats to release | No. released to date |
|-----------------|---------------------|----------------|----------------------|----------------------|
| 21 ^a | Horse Creek | Helicopter | 30 | 20 |
| 21 | Beartrap Springs | Vehicle | 10 | 0 |
| 27 ^a | Goat Creek | Helicopter | 10-20 | 0 |
| 27 ^a | Tumble/Parrot Creek | Helicopter | 10 | 0 |
| 27 ^a | Ship Island Creek | Helicopter | 20-30 | 8 |
| 27 ^a | Jack/Wilson Creek | Helicopter | 10 | 7 |
| 28 | Panther Creek | Vehicle | 10-20 | 23 |
| 28 | Williams Creek | Vehicle | 10 | 2 |
| 29 | Warm Springs Creek | Helicopter | 10-20 | 0 |
| 29 | Haynes Creek | Vehicle | 10-20 | 24 |

^a Designated wilderness, helicopter use authorized by USFS.

Table 5. Mountain goat translocation, Salmon Region, 1982-2007.

| Year | Capture site-GMU | Release site-GMU | Adults | | Kids | | Total |
|------|------------------|-------------------|--------|----|------|---|-------|
| | | | M | F | M | F | |
| 1982 | Olympic Park, WA | Patterson Cr-37A | 8 | 12 | 0 | 0 | 20 |
| 1989 | Snow Peak-9 | Jack Cr-27 | 0 | 1 | 0 | 0 | 1 |
| | Black Mtn-10 | Jack Cr-27 | 2 | 4 | 0 | 0 | 6 |
| | Mt Baldy-67 | Williams Cr-28 | 1 | 1 | 0 | 0 | 2 |
| 1990 | Swan Valley-67 | Pine Cr-28 | 1 | 0 | 0 | 0 | 1 |
| | Mt Baldy-67 | Panther Cr-28 | 1 | 3 | 0 | 2 | 6 |
| 1991 | Black Mtn-10 | Ship Island Cr-27 | 4 | 4 | 0 | 0 | 8 |
| | Mt Baldy-67 | Panther Cr-28 | 1 | 4 | 0 | 1 | 6 |
| 1992 | Mt Baldy-67 | Panther Cr-28 | 2 | 9 | 0 | 0 | 11 |
| 1994 | Mt Baird-67 | Square Top Mt-21 | 4 | 6 | 0 | 0 | 10 |
| 1997 | Big Elk Cr-67 | Corn Lake-21 | 4 | 6 | 0 | 0 | 10 |
| 2007 | Tushar Mts, UT | Haynes Cr-29 | 5 | 18 | 1 | 0 | 24 |

APPENDIX A
IDAHO
2009 SEASON
MOUNTAIN GOAT RULES

Moose, Bighorn Sheep and Mountain Goat

Controlled Hunt Seasons and Rules 2009 and 2010



Photo courtesy Teri Thaumert

**Controlled Hunt application period: April 1 - April 30.
Persons applying for controlled hunts must submit tag and application fees.**

Major changes are highlighted in yellow.



2009 & 2010 Mountain Goat Hunting Seasons

- **Mountain goats of either sex may be taken except nannies accompanied by kids.**

A hunter may authorize another person to comply with the above report requirements if that person complies with those requirements and possesses the necessary information to accurately complete the form.

Mandatory Check and Report Requirements

Any hunter killing a mountain goat must present the horns and complete a big game mortality report at an Idaho Fish and Game regional office or to a conservation officer within 10 days after the date of kill. Fish and Game headquarters office is not equipped to check in goats. In the Boise area, these animals can be checked at the Fish and Game regional office in Nampa (3101 S. Powerline Rd, 208-465-8465) between the hours of 8 a.m. and 5 p.m. or by appointment at the Garden City facility, 109 W. 44th St., 208-327-7099.

Unsuccessful permittees must present or mail their unused tags to an Idaho Fish and Game office within 10 days after the close of the season for which the tag was valid. Cancelled tags will be returned to the hunter upon request. Failure to report may result in future ineligibility in mountain goat drawings.

| 2009 & 2010 Mountain Goat Controlled Hunts Either Sex - 46 Permits Either sex may be taken except a nanny accompanied by kids | | | | | | | |
|--|----------------------|---------|-----------------|----------|----------------------|---------|-----------------|
| Hunt No. | Controlled Hunt Area | Permits | Season Dates | Hunt No. | Controlled Hunt Area | Permits | Season Dates |
| 6001 | 10 | 2 | Aug 30 - Nov 12 | 6010 | 36A-3* | 3 | Aug 30 - Nov 12 |
| 6002 | 18* | 4 | Aug 30 - Nov 12 | 6011 | 36A-4* | 2 | Aug 30 - Nov 12 |
| 6003 | 22 | 4 | Aug 30 - Nov 12 | 6012 | 36B* | 2 | Aug 30 - Nov 12 |
| 6004 | 27-2* | 1 | Aug 30 - Nov 12 | 6013 | 37A* | 1 | Aug 30 - Nov 12 |
| 6005 | 27-4* | 2 | Aug 30 - Nov 12 | 6014 | 39 | 2 | Aug 30 - Nov 12 |
| 6006 | 27-5 | 2 | Aug 30 - Nov 12 | 6015 | 43* | 3 | Aug 30 - Nov 12 |
| 6007 | 36-1 | 4 | Aug 30 - Nov 12 | 6016 | 50* | 2 | Aug 30 - Nov 12 |
| 6008 | 36A-1* | 4 | Aug 30 - Nov 12 | 6017 | 51* | 3 | Aug 30 - Nov 12 |
| 6009 | 36A-2* | 1 | Aug 30 - Nov 12 | 6018 | 67 | 4 | Aug 30 - Nov 12 |

GOAT

* See controlled hunt area descriptions. This hunt includes other units or parts of other units.

Hunt Area Descriptions

Hunt Area 10—That portion of Unit 10 within the Isabella Creek and Collins Creek drainage.

Hunt Area 18— All of Unit 18 and that portion of Unit 23 within the Rapid River drainage.

Hunt Area 22 — All of Unit 22.

Hunt Area 27-2 — That portion of Unit 27 south of Forest Service Road 172 from Loon Creek Summit to Loon Creek guard station, Pinyon Peak, and Feltham Creek Point, and that portion of Unit 36 west of Forest Service Road 172 and north of the Pioneer Creek-West Fork Yankee Fork Trail, Forest Service Trail 113-155.

Hunt Area 27-4— That portion of Unit 27 east of the Middle Fork of the Salmon River and north of Camas Creek and that portion of Unit 28 within the Yellowjacket Creek drainage.

Hunt Area 27-5 — That portion of Unit 27 west of the Middle Fork of the Salmon River upstream from and including the Marble Creek drainage, and that part east of the Middle Fork of the Salmon River upstream from and including Little Loon Creek drainage.

Hunt Area 36-1 — That portion of Unit 36 west of State Highway 75 from Stanley to Alturas Lake Creek and south of State Highway 21.

Hunt Area 36A-1— That portion of Unit 50 north of Trail Creek Road and west of U.S. 93, that portion of Unit 36A south and east of the East Fork of the Salmon River from and including the Herd Creek drainage upstream to and including the West Pass Creek drainage; and that portion of Unit 48 within the Big Wood River drainage east of State Highway 75 and downstream from and including the North Fork of the Big Wood River drainage.

Hunt Area 36A-2—That portion of Unit 36A, including the headwaters of the East Fork of the Salmon River upstream from, but excluding, the Germania Creek drainage on the west and upstream from, but excluding, the West Pass Creek drainage on the east; and

that portion of Unit 48 within the Big Wood River drainage east of State Highway 75 upstream from and excluding the North Fork Big Wood River drainage.

Hunt Area 36A-3—That portion of Unit 36A north and west of the East Fork of the Salmon River downstream from, but excluding, the Germania Creek drainage, and that portion of Unit 36 on the south and east sides of the main Salmon River downstream from, but excluding, the Fourth of July Creek drainage above Stanley.

Hunt Area 36A-4—That portion of Unit 36A within the Germania Creek drainage, and that portion of Unit 36 within the Salmon River drainage east of State Highway 75 from and including the Fourth of July Creek drainage upstream to and including the Pole Creek drainage.

Hunt Area 36B—That portion of Unit 36B south of and including the Challis Creek drainage; that portion of Unit 36 east of the Yankee Fork-Mill Creek Summit Road.

Hunt Area 37A — All of Unit 37A and that portion of Unit 29 upstream from and including Hayden Creek drainage.

Hunt Area 39 — That portion of Unit 39 in the Middle Fork Boise River drainage upstream from, and including, the Queen's River and Yuba River drainages.

Hunt Area 43 — That portion of Unit 36 west of State Highway 75 and south of Alturas Lake Creek; all of Unit 43; and that portion of Unit 48 south and west of State Highway 75 upstream from and including the Baker Creek drainage.

Hunt Area 50—All of Unit 49 and that portion of Unit 50 south and east of the Trail Creek Road and south and west of U.S. Highway 93.

Hunt Area 51—That portion of Unit 51 east of the Howe-Goldburg Road and that portion of Unit 58 west of State Highway 28.

Hunt Area 67 — That portion of Unit 67 south and east of Palisades Creek to the Wyoming line.



Report Wildlife Crimes

Citizens Against Poaching

1-800-632-5999

Submitted by:

Jim Hayden
Regional Wildlife Manager

Jay Crenshaw
Regional Wildlife Manager

Steve Nadeau
Regional Wildlife Manager

Jeff Rohlman
Regional Wildlife Manager

Randy Smith
Regional Wildlife Manager

Toby Boudreau
Regional Wildlife Manager

Daryl Meints
Regional Wildlife Manager

Tom Keegan
Regional Wildlife Manager

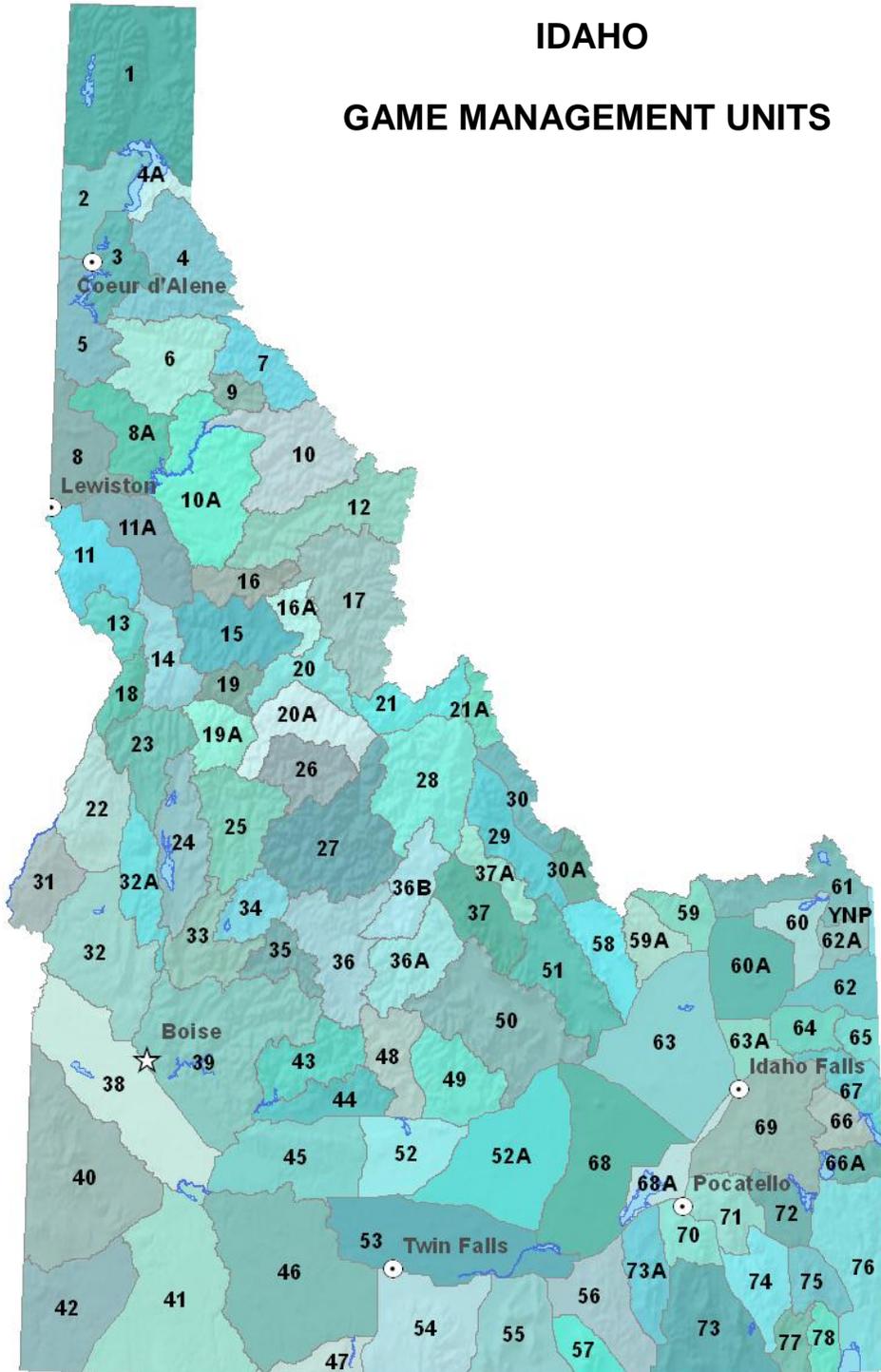
Approved by: IDAHO DEPARTMENT OF FISH AND GAME


Brad Compton, Asst. Chief
Bureau of Wildlife


Jeff Gould, Chief
Bureau of Wildlife

IDAHO

GAME MANAGEMENT UNITS



FEDERAL AID IN WILDLIFE RESTORATION

The Federal Aid in Wildlife Restoration Program consists of funds from a 10% to 11% manufacturer's excise tax collected from the sale of handguns, sporting rifles, shotguns, ammunition, and archery equipment. The Federal Aid program then allots the funds back to states through a formula based on each state's geographic area and the number of paid hunting license holders in the state. The Idaho Department of Fish and Game uses the funds to help restore, conserve, manage, and enhance wild birds and mammals for the public benefit. These funds are also used to educate hunters to develop the skills, knowledge, and attitudes necessary to be responsible, ethical hunters. Seventy-five percent of the funds for this project are from Federal Aid. The other 25% comes from license-generated funds.

