

UNIVERSITY OF ALASKA MUSEUM

**BLM SUMMER FIELDWORK
MAMMAL REPORT**

2002

Prepared by

Kristian R. Larson

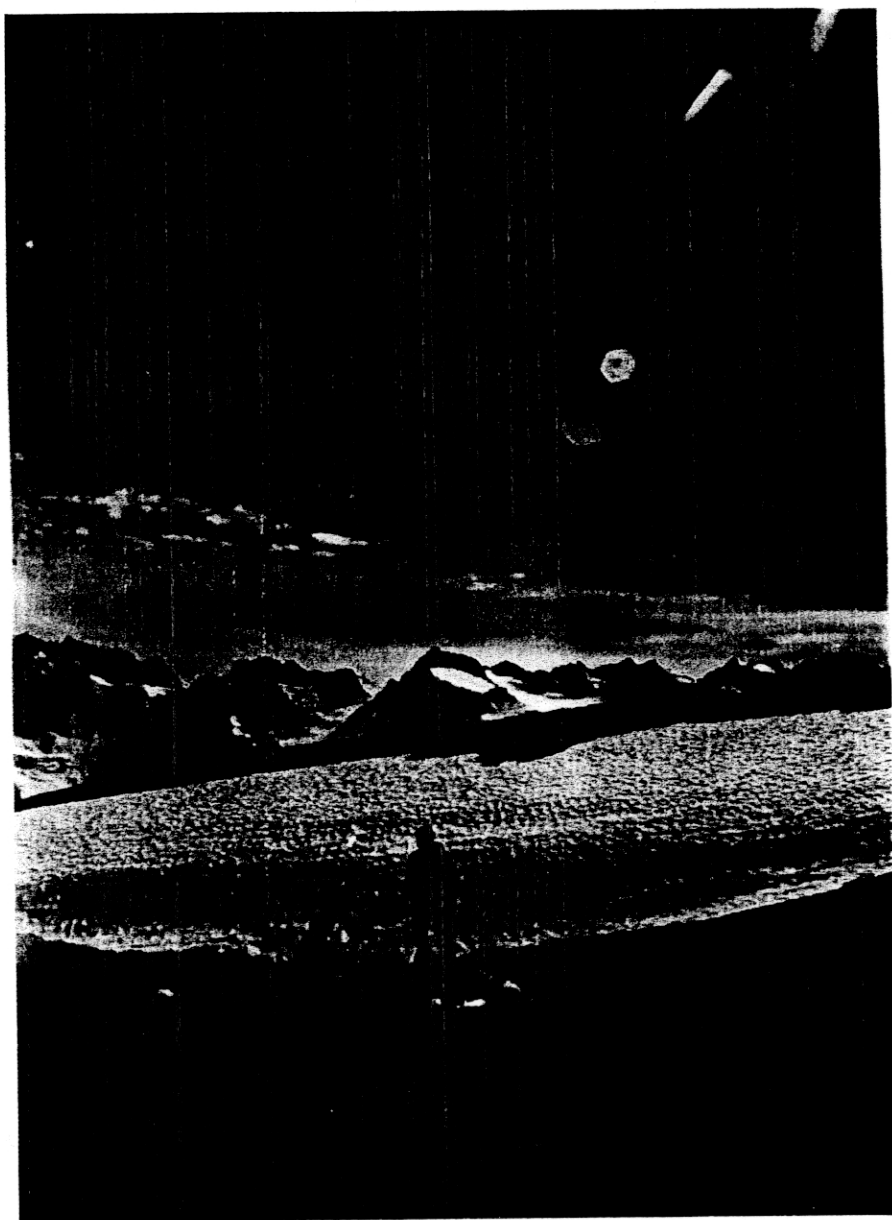
Mammal Collection
University of Alaska Museum
907 Yukon Drive
Fairbanks, AK 99775
(907) 474-6947

CONTENTS

1.	Summary	2
2.	Introduction	3
3.	Materials and methods	
	a. Field locations	4
	b. Field studies	6
	c. Specimen processing	7
4.	Results and discussion	
	a. Inventory results	8
	b. Species accounts	10
	c. Habitat affinities	19
	d. Trap success	22
5.	Significant findings	22
6.	Recommendations for future monitoring	22
7.	Acknowledgements	23
8.	Literature cited	23
9.	List of UAM specimens	Appendix

1. SUMMARY

*Through the support of the Bureau of Land Management, the UAM Mammal Collection was able to survey some extremely remote and inaccessible areas of lower Alaska. Many of the areas surveyed in the summer of 2002 had not previously been inventoried. Some specimens collected in these areas filled distribution gaps or extended the knowledge of geographic range for certain species. Documented range extensions include: brown lemmings (*Lemmus trimucronatus*) were captured and documented for the first time in the high alpine of Southeast Alaska, collared lemmings (*Dicrostonyx groenlandicus*) found in the alpine tundra immediately east of Lake Illiamna; and singing voles (*Microtus miurus*), found in the alpine meadows northwest of Tyonek. There were two species that filled ditribution gaps, the tundra shrew (*Sorex tundrensis*) and meadow jumping mouse (*Zapus hudsonius*), both from the tundra around Bear Lake.*



During our collecting efforts, we found that spending a longer period of time on the ground in each survey location would enable us to greatly improve our survey results. The widest diversity of species and the most interesting species found came from locations where we spent the most time. It is likely that crews that camp on site would have the most success finding rare or interesting species.

UAM Mammals and Ornithology crew on Takhin ridge, Haines. Left to right: James Maley, Dan Gibson, and Robert Allen. June 2002.

2. INTRODUCTION

This report describes our trapping and hunting efforts and provides summary of our methods and results for the summer of 2002 BLM Lands Survey. We also include recommendations for future survey efforts on BLM lands, and provide an appendix of specimens collected in this event.

In the summer of 2002 the University of Alaska Museum (UAM) mammals collection surveyed 5 distinct areas within Bureau of Land Management (BLM) lands in Alaska. The general areas were Haines (Southeastern Alaska), Bear Lake (Southwestern Alaska), Cottonwood Bay (Illiamna/Cook Inlet area), Tyonek (south-central Alaska), and Chugach (Chugach Mountains north of Anchorage). These sites were chosen because of the lack of previous information on the more discrete mammalian fauna. Helicopters were used to access these remote and often otherwise inaccessible areas.

In choosing habitats and locations, special emphasis was placed on searching for the likely locations of rare or previously unrecorded species. A variety of habitat types were surveyed, from forest to meadow and coast to mountain tops.

Through June and July of 2002 specimens were collected at these diverse sites over 3774 total trapnights. We recorded the occurrence of documented as well as previously undocumented species from each location.

A few very interesting species were found in the course of this study. Brown lemmings (*Lemmus trimucronatus*) were taken from Haines. Collared lemmings (*Dicrotonyx groenlandicus*) were found in Cottonwood Bay. And, singing voles (*Microtus miurus*) were collected in Tyonek. All of these specimens represent new distribution records. Some, somewhat common, but difficult to capture or find, and so uncommon in collections, species were taken as well. These included a collared pika (*Ochotona collaris*) from Chugach, two hoary marmots (*Marmota calligata*) from Haines, arctic ground squirrels (*Spermophilus parryii*) from Haines, and a water shrew (*Sorex palustris*) also from Haines.

3. MATERIALS AND METHODS

A single crew of two UAM Mammal Collection staff members sampled five major areas, for a total of 25 collection sites across lower Alaska. Traps were set for a total of 3,774 trapnights (Fig. 1). Transport and logistic support, including site information, probable habitat, and general knowledge of these areas were provided by BLM. Below are summaries of specific field locations from these five primary areas.

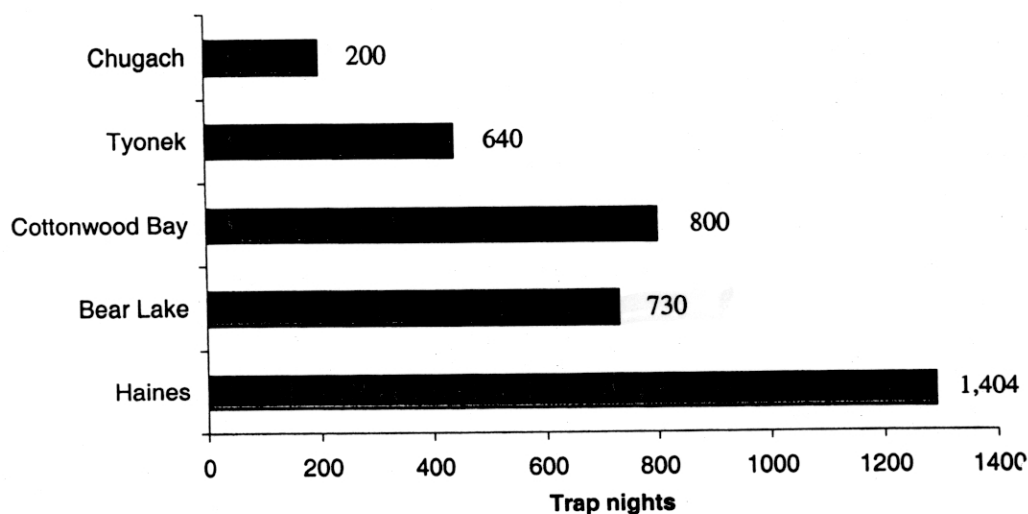


Figure 1. Total trap effort in units of trapnights per location.

a) Field Locations

Below are tables that describe the each trapline locality surveyed, dates sampled, habitat type, and general weather.

Bear Lake

Locality	Coordinates	Date (2002)	Comment
5.9km, 14° from Bear Lake	56°17'24"N 160°10'03"W	3-4 July	Near a small tundra lake. Dry tundra and shrub dominated the site. Elevation 90-120 ft. Weather: 5 mph wind, 50% cloud cover.
119 km, 284° from Bear Lake	55°42'22"N 162°03'59"W	4-5 July	We trapped two sites in roughly the same location. Habitat consisted of rocky, high, open tundra. Elevation 600-900 ft. Weather: 25 mph wind, rain.
117 km, 256° from Bear Lake	55°46'06"N 162°05'00"W	4-5 July	This site consisted of low open tundra that was bordered by the coast. Elevation 30-100 ft. Weather: 15 mph wind, intermittent rain.

<i>Reindeer Creek</i>	56°59'36"N 158°38'39"W	5-6 July	This creek weaves through open tundra. We trapped in the riparian zone along the creek, which was dominated by alder and willow. Elevation 100-200ft. Weather: light overcast, calm, ~60°F.
<i>Ugashik Bay</i>	57°24'22"N 157°41'27"W	6-7 July	Dominant vegetative community: wet tundra. Elevation 0-50ft. Weather: clear, ~60°F.

Cottonwood Bay

Locality	Coordinates	Date (2002)	Comment
<i>4 miles West of The Cone</i>	59°31'25"N 153°55'41"W	8-9 July 2002	Rocky alpine meadow with large snow-packs. Elevation 1200-1500 ft. Weather: 5-10 mph wind, clear.
<i>2 miles North of Kirschner Lake</i>	59°26'58"N 153°56'37.3"W	8-10 July	Mostly bare rock, moss, and snow-pack, high alpine tundra. Elevation 1100-1500 ft. Weather: 5-10 mph wind, clear.
<i>Ursus Cove</i>	59°31'25"N 153°46'21"W	9-12 July	Near tide line coastal alder and grass. Elevation 0-20 ft. Weather: 25 mph wind, alternating sun and rain.

Tyonek

Locality	Coordinates	Date (2002)	Comment
<i>1 mile South of Max Lake</i>	61°21'28"N 152°52'09"W	13-15 July	Area dominated by rock, open alpine, and snow-packs. Elevation 4900-5200 ft. Weather: 5-10 mph wind, light rain, ~50°F.
<i>Mount Spurr</i>	61°13'38"N 152°03'22"W	15-17 July	This site is an old flooded glacial morain dominated by grass and alder. Elevation 1200-1300 ft. Weather: clear, ~70°F.
<i>Near McCarthy River</i>	61°08'17"N 152°03'49"W	15-17 July	High alpine tundra dominated by rock and snow-pack. Elevation 3000-3100 ft. Weather: clear, ~70°F.

Chugach

Locality	Coordinates	Date (2002)	Comment
<i>2 miles North of Bold Peak</i>	61°21'54"N 148°54'30"W	19-20 July	High alpine tundra, snow-packs and scree slopes. Elevation 5000-5200 ft. Weather: clear, ~70°F.
<i>2 miles East of Bold Peak</i>	61°20'38"N 148°51'31"W	19-20 July	High alpine tundra, snow-packs and scree slopes. Elevation 4100-4400 ft. Weather: clear ~70°F.

Haines

Locality	Coordinates	Date (2002)	Comment
<i>24 mile Haines</i>	59°24'30"N	25-27	Shrubby alluvium fringed by cottonwoods and

<i>Highway</i>	135°57'20"W	June	spruce. Elevation 141ft. Weather: overcast, ~60°F.
<i>Porcupine River 1</i>	59°24'53"N 136°05'50"W	25-26 June	Heavy spruce and cottonwood growth. Mostly closed tree canopy. Elevation 239ft. Weather: overcast, ~60°F.
<i>Porcupine River 2</i>	59°24'53"N 136°03'43"W	26-28 June	Dense riparian zone of mixed forest, shrub, grass and forb. Elevation 235ft. Weather: overcast, ~60°F.
<i>17 mile Haines Highway</i>	59°21'59.7"N 135°47'53.6"W	26-28 June	Roadside stream dominated by willow and horsetail. Elevation 205ft. Weather: overcast ~60-70°F.
<i>Klukwah Mountain 1</i>	59°36'23.8"N 135°54'12.7"W	27-29 June	High alpine tundra and scattered shrubs, snow-packs still covered about 50% of the lower alpine. The ground was extremely wet from receding snow. Elevation 3462ft. Weather: clear, ~70°F.
<i>Takhin Ridge</i>	59°15'55.5"N 135°52'37"W	27-29 June	High alpine tundra and scattered shrub. Elevation 3636ft. Weather: clear, ~70°F.
<i>Mount Raymond</i>	59°39'35.2"N 135°54'54.5"W	28-29 June	High alpine tundra and meadow near the Canadian border. Elevation 4169ft. Weather: clear, ~60°F.
<i>Tohitkah Mountain 1</i>	59°37'31.2"N 136°05'21.6"W	25-27 July	High alpine tundra. Elevation 4340-5000ft. Weather: overcast, windy (~25mph), ~45°F.
<i>Tohitkah Mountain 2</i>	59°37'23.6"N 136°04'29.9"W	25-27 July	Open high alpine tundra stream. Very fast moving and fed primarily by snow melt. Elevation 3510-3600ft. Weather: overcast, windy (~15mph), ~45°F.
<i>Mount Ashmun</i>	59°38'14.7"N 136°07'44.9"W	26-29 July	Large high alpine valley, consisting of alpine tundra and meadow. Elevation 3900-4461ft. Weather: overcast, windy (~25mph), intermittent rain, snow, and fog, ~35°F.
<i>Takhin Ridge – west end</i>	59°17'10.1"N 136°06'30.5"W	26-28 July	Low alpine site, lush and dominated by meadow, scrub mountain hemlock, and alder. Elevation 3009-3100ft. Weather: overcast, variable winds, ~50°F.
<i>Klukwah Mountain 2</i>	59°35'33"N 135°53'31.6"W	27-29 July	High alpine tundra and meadow with a few small snow-packs remaining. Elevation 4223ft. Weather: overcast, rain, variable winds, ~40°F.

b) Field Studies

It is standard practice for UAM to try and maximize the diversity of species collected by using various methods of capture. Methods were tailored to meet the practicality of the sites sampled, such as clump-setting museum specials around sign and good habitat patches in high alpine zones, as opposed to regularly-spaced sets on transects. All trapping methods did not prove applicable to every site (e.g. pitfalls could not be employed in rocky terrain) but, within these confines, we tried to sample for the widest array of species possible. Particular emphasis was put on the capture of rare or undocumented species (specific species of interest varied between sites).

In summer 2002, traplines were set in various habitat types within each general study area. Trap effort and methods for each site were based on how much time was allocated to set traps or hunt, and what the terrain would allow. (Fig. 2).

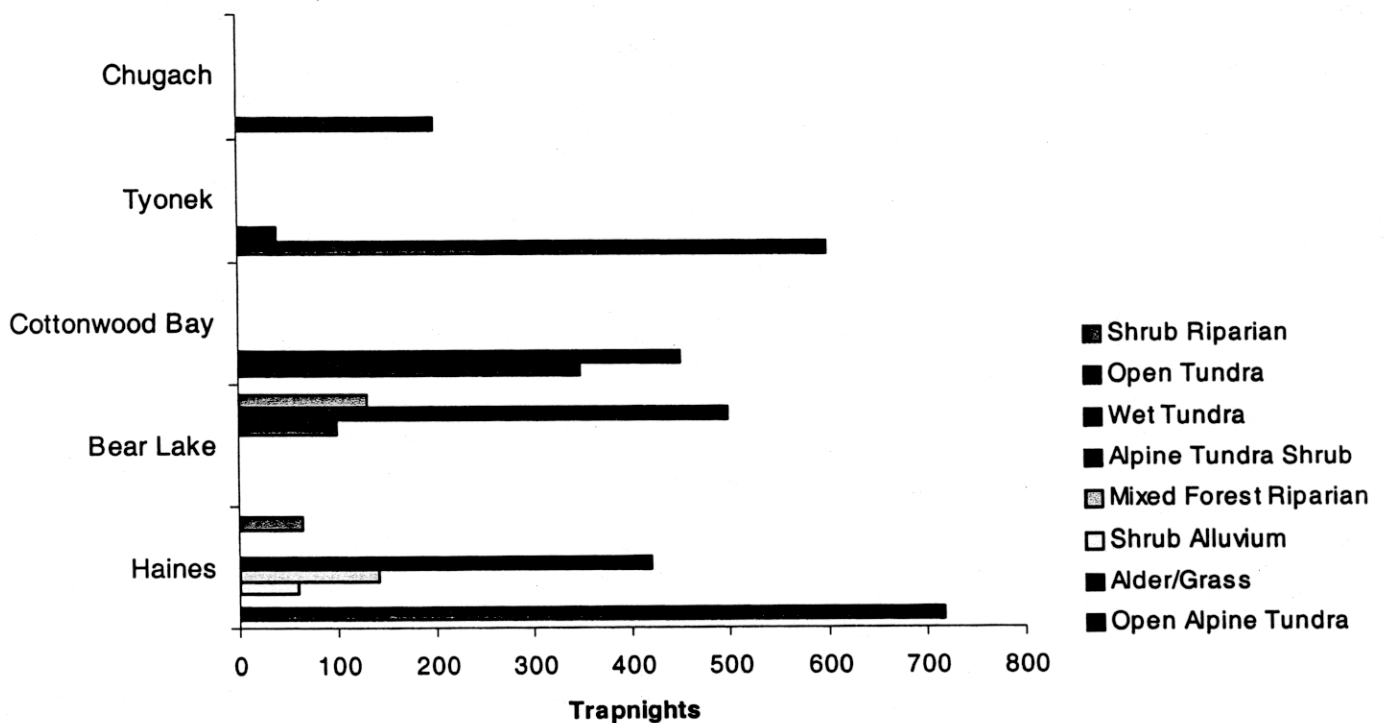


Figure 2. Trap effort in units of trapnights per habitat type.

Pitfall traps were seldom employed due to the prevalence of rocky terrain and shallow/gravelly soils. Museum specials were the most commonly used method of capture. Rat traps, Sherman traps, minnow traps, connibear traps, shotguns and rifles were also used when deemed applicable. Traps were normally set in correlation to animal sign. Bait sets and trail sets were the most common trapping methods. The field crew was only able to check traps every 24 hours (or in some cases 48 hours) due to the fact that helicopters were used as transport between sites, and crewmembers did not camp at the trapline locations.

c) Specimen Processing

Collected specimens were processed in one of the following ways:

1. Common mammals – tissues and skulls were taken or tissues were taken and carcasses were preserved in ethanol.
2. Specimens not common in UAM collection – skins, skulls, skeletons, and tissues were taken.
3. Rare and interesting mammals – skins, skulls, ethanol preserved carcasses, and tissues were taken.

The most common tissues taken were heart, lung, liver, kidney, spleen, and embryos. In the field tissues were preserved using liquid nitrogen. All specimens were weighed, measured and reproductive condition checked and recorded during processing. Specific locality information and specimen data was recorded on an AF (Alaska Frozen Tissue Collection) sheet for each specimen.

All information for the BLM lands summer 2002 mammal collections is now in the UAM Arctos database and is available online at: http://arctos.museum.uaf.edu:8080/cgi-bin/uam_db/specimenssearch.cgi.

4. RESULTS AND DISCUSSION

a) Inventory Results

The expected species numbers listed for the areas below represent mammals that were expected to occur on BLM lands in these areas and do not include marine mammals that may have been present. All estimates of expected species were derived from the UAM Arctos database (http://arctos.museum.uaf.edu:8080/cgi-bin/uam_db/specimenssearch.cgi), and Catalog of the Recent Mammals of Alaska (MacDonald & Cook 2001).

The species listed below include big game mammals that were detected but not collected, as the taking of big game is not covered by our collecting permit. Of the 35 mammalian species expected in Haines, we captured 9 as well as 2 unexpected species (*Lemmus trimucronatus* and *Sorex palustris*). An additional 11 expected species were seen or identified by sign (tracks for most, cuttings and dams for beavers) as well as one unexpected sighting of a collared pika (*Ochotona collaris*) on Klukwah Mountain. From Bear Lake, we captured 8 of the 22 expected species and saw 7 others. In Cottonwood Bay, 22 mammalian species were expected in this part of the upper Alaska Peninsula. 5 expected species were collected as well as one unexpected species (*Dicrostonyx groenlandicus*). 3 other species were either seen or detected in this area from tracks or sign. In Tyonek, 28 mammalian species were expected, only 4 of which were collected. One unexpected species (*Microtus miurus* a new distribution record) was taken and 9 other species were seen or otherwise documented. While in the Chugach area 35 species were expected to occur, though only 3 species were collected. 6 other mammalian species were seen in the area. The collected species from these sites are illustrated in figure 3.

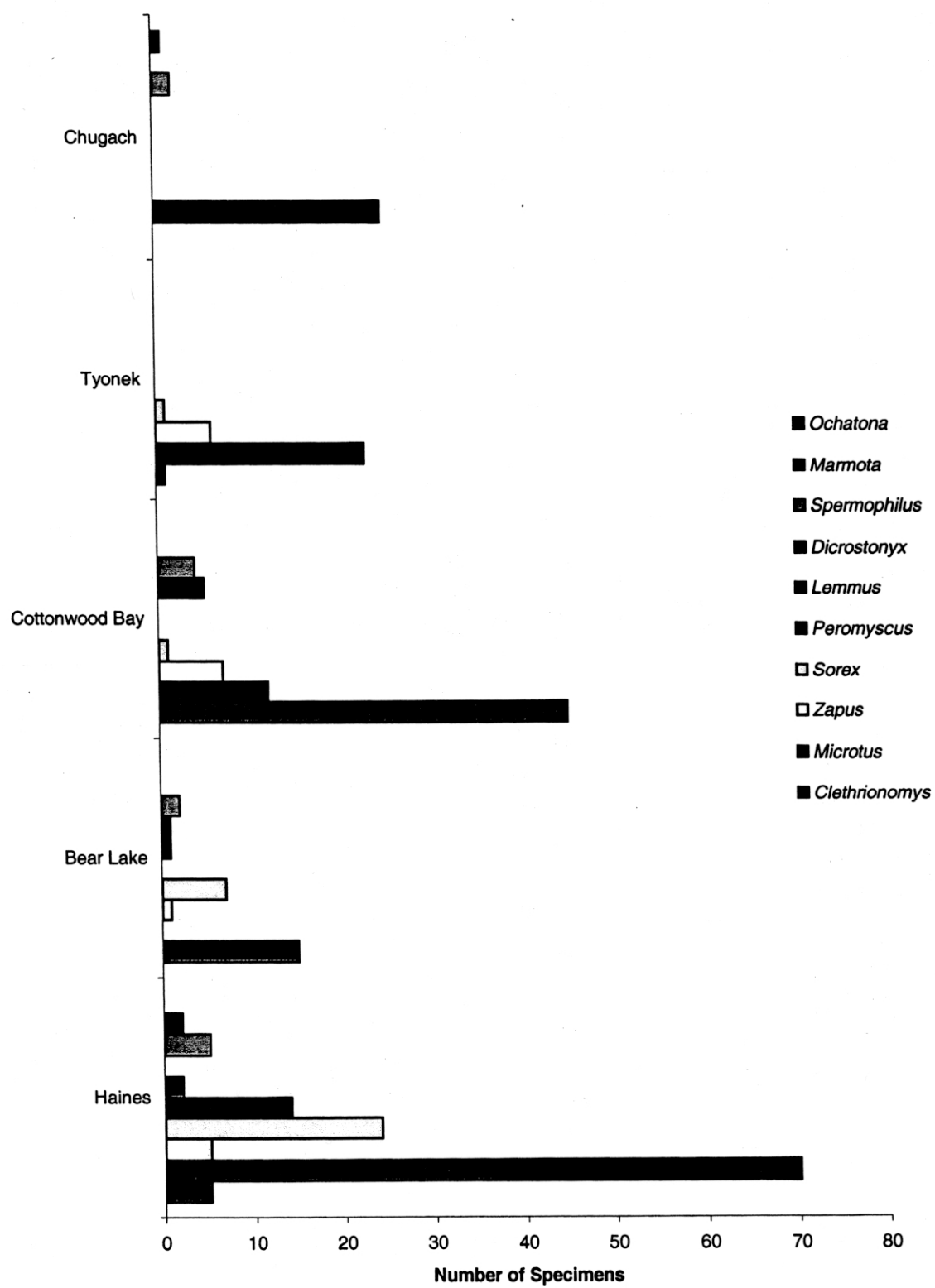


Figure 3. Genera and number of specimens collected per location.

b) Species Accounts (by locality)

Haines

INSECTIVORA

Soricidae

Sorex cinereus (common shrew)

Only one specimen was captured from 17 mile Haines Highway. It was not found in any other areas.

Sorex monticolus (dusky shrew)

This species was common in both high and low elevation sites.

Sorex palustris (water shrew)

One specimen was collected from Tohitkah Mountain.

CARNIVORA

Canidae

Canis lupus (wolf)

Wolves were not seen in Haines, though feces and tracks were found near the Porcupine River.

Canis latrans (coyote)

One coyote was seen on the road near the Porcupine River.

Mustelidae

Gulo gulo (wolverine)

Tracks were seen near Klukwah Mountain.

Ursidae

Ursus americanus (black bear)

A sow and cubs were seen on Klukwah Mountain and tracks were seen in most locations.

Ursus arctos (brown bear)

Individuals were seen from the air and ground in the Klukwah Mountain area. Tracks were seen near the Porcupine River.

ARTIODACTYLA

Cervidae

Alces alces (moose)

Moose were present, if not always seen, at all low elevation sites.

Bovidae

Oreamnos americanus (mountain goat)

Mountain goats were seen in the vicinity of most of the alpine trap sites.

Ovis dalli (Dall's sheep)

Dall's sheep were not seen at the trap sites, but were seen on the northern end of the Mount Ashmun ridgeline on the Canadian side of the border. Tracks may have been seen, but could easily have been confused with mountain goat tracks.

RODENTIA

Sciuridae

Marmota caligata (hoary marmot)

Two specimens were collected from Mount Ashmun. The species was present at all alpine sites.

Spermophilus parryi (arctic ground squirrel)

Specimens were collected from Mount Ashmun and Tohitkah Mountain. They were present on Takhin Ridge as well.

Tamiasciurus hudsonicus (red squirrel)

Seen in most of the low elevation sites. Very common.

Castoridae

Castor canadensis (beaver)

Though not seen, dams and cuttings were common near the rivers and streams at low elevations.

Dipodidae

Zapus hudsonius (meadow jumping mouse)

This species was common wherever favorable habitat was present. Most specimens came from low elevation sites and one from a subalpine meadow on the west end of the Takhin Ridge.

Muridae

Clethrionomys rutilus (northern red-backed vole)

Specimens were taken from most low elevation sites and one was taken from the low alpine tundra on Klukwah Mountain.

Lemmus trimucronatus (brown lemming)

Two specimens were taken from high alpine locations on Tohitkah Mountain and Mount Ashmun. These were the first records from southeast Alaska, so are presumed very rare.

Microtus longicaudus (long-tailed vole)

Fairly abundant and occurred in almost all locations.

Microtus oeconomus (tundra vole)

This species was very numerous in high alpine tundra areas.

Peromyscus keeni (Keen's deer mouse)

Very common in low elevation sites as well as alpine meadows. Specimens were taken as high as 4223 ft. on Klukwah Mountain in a small meadow patch surrounded by open alpine tundra.

Erethizontidae

Erethizon dorsatum (porcupine)

While not commonly seen, feces and chewings were common in low elevation wooded areas. One individual was seen on the west end of the Takhin Ridge in a patch of subalpine alder.

LAGOMORPHA

Ochotonidae

Ochotona collaris (collared pika)

One individual was seen on Klukwah Mountain.

Bear Lake

INSECTIVORA

Soricidae

Sorex cinereus (common shrew)

This was the most commonly found shrew in the area, yet only six specimens were collected.

Sorex monticolus (dusky shrew)

Only one specimen collected at Bear Lake Lodge.

Sorex tundrensis (tundra shrew)

We collected one specimen 5.9km 14 degrees from Bear Lake.

CARNIVORA

Canidae

Canis lupus (wolf)

Several individuals were seen from the air in the vicinity of Bear Lake.

Vulpes vulpes (red fox)

This species seemed common. Several individuals were seen from the air and tracks and feces were present at most sites.

Mustelidae

Lontra canadensis (river otter)

Little sign was seen, though a few individuals were spotted from the air.

Ursidae

Ursus arctos (brown bear)

Common in the entire area. Multiple individuals were seen from the air or from the ground each day.

ARTIODACTYLA

Cervidae

Alces alces (moose)

Sign (tracks and feces) were present in most shrubby or brushy areas. A few individuals were seen from the air.

Rangifer tarandus (caribou)

Sightings were patchy, individuals and groups were seen in various locations. Tracks, feces, and shed antlers were abundant in most locations. See figure 4.



Figure 4. Bull caribou (*R. tarandus*) near Bear Lake, July 2002.

RODENTIA

Sciuridae

Spermophilus parryii (arctic ground squirrel)

This species seemed to be abundant in all sites. Individuals were collected 119km 284 degrees from Bear Lake.

Castoridae

Castor canadensis (beaver)

Beaver cuttings, dams, and/or lodges seemed to be present wherever woody vegetation and freshwater bodies simultaneously occurred.

Dipodidae

Zapus hudsonius (meadow jumping mouse)

One specimen was collected near Bear Lake.

Muridae

Clethrionomys rutilus (northern red-backed vole)

Specimens were collected in two locations. One individual from Ugashik Bay and several from Reindeer Creek.

Dicrostonyx groenlandicus (collard lemming)

One specimen was collected 119km 284 degrees from Bear Lake.

Lemmus trimucronatus (brown lemming)

An individual was taken 119km 284 degrees from Bear Lake.

Cottonwood Bay

INSECTIVORA

Soricidae

Sorex cinereus (common shrew)

One common shrew was taken from Ursus Cove.

CARNIVORA

Canidae

Vulpes vulpes (red fox)

Tracks were seen on the beach in Ursus Cove.

Ursidae

Ursus arctos (brown bear)

Several individuals were seen from the air. Brown bear tracks were present in Cottonwood bay and Ursus Cove. See Figure 5.



Figure 5. Young brown bear (*U. arctos*) in Cottonwood Bay, July 2002.

RODENTIA

Sciuridae

Spermophilus parryii (arctic ground squirrel)

This species seemed to be abundant in all areas except Ursus Cove. Individuals were collected from Cottonwood Bay, 4 miles west of The Cone, and 2 miles north of Kirschner Lake.

Tamiasciurus hudsonicus (red squirrel)

An individual was seen in the low elevation cottonwood/spruce forest of Cottonwood Bay.

Dipodidae

Zapus hudsonius (meadow jumping mouse)

Specimens were taken from Ursus Cove.

Muridae

Clethrionomys rutilus (northern red-backed vole)

This species was very abundant in Ursus Cove. Two individuals were also taken from 2 miles north of Kirschner Lake.

Dicrostonyx groenlandicus (collared lemming)

A mummified individual in winter pelage was found 4 miles west of The Cone. Three individuals were taken from 2 miles north of Kirschner Lake as well as one dried head (in summer pelage) from an abandoned lemming nest.

Microtus oeconomus (tundra vole)

Tundra voles were taken from Ursus Cove and 4 miles west of The Cone. This species seemed relatively abundant where it was found.

Tyonek

INSECTIVORA

Soricidae

Sorex monticolus (dusky shrew)

A single specimen was taken from Mount Spurr.

CARNIVORA

Ursidae

Ursus americanus (black bear)

Commonly seen from the air when flying over the low elevation forest and muskeg. Tracks were seen on Mount Spurr.

Ursus arctos (brown bear)

Tracks were seen 1 mile south of Max Lake, near McCarthy River, and in Tyonek.

ARTIODACTYLA

Cervidae

Alces alces (moose)

Several moose were seen on the Mount Spurr site both from the air and from the ground.

Rangifer tarandus (caribou)

Shed antlers and tracks were seen 1 mile south of Max Lake.

Bovidae

Ovis dalli (Dall's sheep)

A few individuals were spotted from the air while flying to the Max Lake site.

RODENTIA

Sciuridae

Marmota caligata (hoary marmot)

An individual hoary marmot was present at the 'near McCarthy River' site. Tracks, feces, and burrows from the marmot were found.

Spermophilus parryii (arctic ground squirrel)

This species was present in the high elevations. Ground squirrels were seen 1 mile south of Max Lake and near McCarthy River.

Tamiasciurus hudsonicus (red squirrel)

Red squirrels were seen in the trees around Tyonek Lodge.

Castoridae

Castor canadensis (beaver)

Beaver cuttings, dams and lodges were numerous at the Mount Spurr site, but no individuals were seen.

Dipodidae

Zapus hudsonius (meadow jumping mouse)

Six specimens were collected at the Mount Spurr site.

Muridae

Clethrionomys rutilus (northern red-backed vole)

Two red-backed voles were taken in this area. One specimen came from Tyonek Lodge and the other from 1 mile south of Max Lake.

Microtus miurus (singing vole)

Several specimens were collected 1 mile south of Max Lake and one specimen was taken from near McCarthy River.

Microtus oeconomus (tundra vole)

Tundra voles were only taken 1 mile south of Max Lake.

LAGOMORPHA

Ochotonidae

Ochotona collaris (collared pika)

Four individuals were seen from the ground 1 mile south of Max Lake and several were heard calling in the area.

Chugach

CARNIVORA

Ursidae

Ursus americanus (black bear)

Black bears were seen from the air on several occasions and a sow with cub was seen from the ground 2 miles north of Bold Peak.

Ursus arctos (brown bear)

A single brown bear was seen from the air on a mountain side near the collection locations.

ARTIODACTYLA

Cervidae

Alces alces (moose)

Bones and tracks were found 2 miles east of Bold Peak.

Bovidae

Oreamnos americanus (mountain goat)

One female mountain goat was seen from the ground bedded on the periphery of a group of Dall's sheep 2 miles east of Bold Peak.

Ovis dalli (Dall's sheep)

A large number of Dall's sheep (less than 100) were seen from the air and ground in both collection sites (2 miles east of Bold Peak and 2 miles north of Bold Peak). See figure 6.

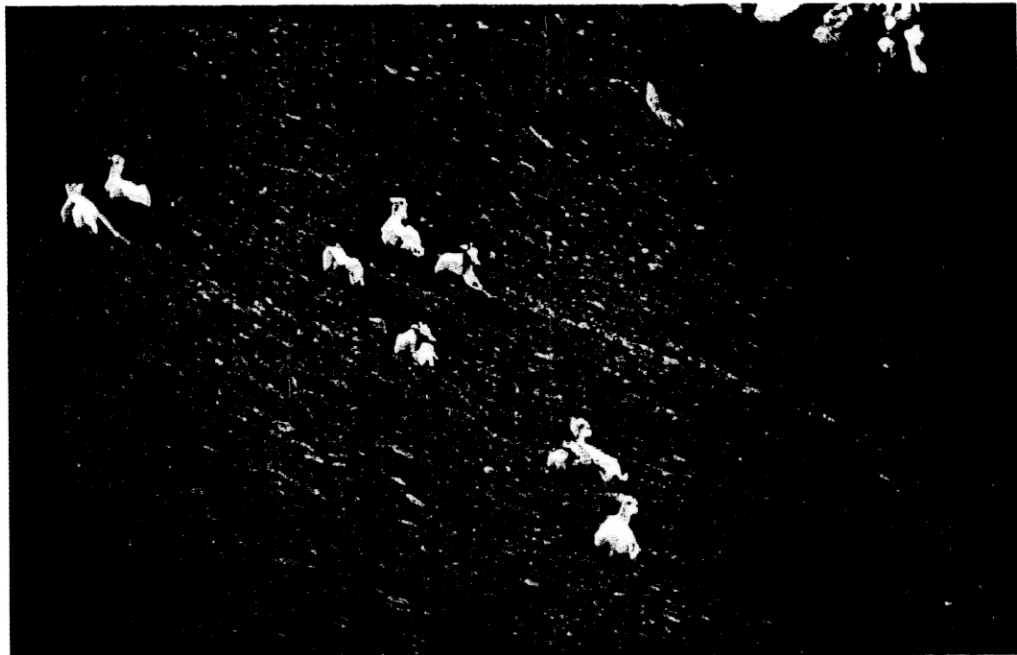


Figure 6. Dall's sheep (*O. dalli*) ewes and lambs 2 miles north of Bold Peak. Chugach, July 2002.

RODENTIA

Sciuridae

Marmota caligata (hoary marmot)

One hoary marmot was seen in a scree slope 2 miles north of Bold Peak.

Spermophilus parryi (arctic ground squirrel)

Two specimens were collected, one from 2 miles north of Bold Peak and one from 2 miles east of Bold Peak.

Muridae

Microtus miurus (singing vole)

Singing voles were the only voles we were able to find or capture in these two areas. Specimens came from both 2 miles north of Bold Peak and 2 miles east of Bold Peak.

LAGOMORPHA

Ochotonidae

Ochotona collaris (collared pika)

This species was seen in both collection sites. A specimen was collected 2 miles north of Bold Peak.

c) Habitat Affinities

The habitat affinities below represent habitats that specimens collected on BLM lands (summer 2002) were found in. Many of the species collected may occur in a wider diversity than we found them in, or may have greater affinities for habitat types other than what we were able to sample during this collecting event (Fig. 8). The information below is not an index to preferred habitat types for all the collected species, but simply a description of where we happened to collect individual specimens.

In general, the greatest diversity of small mammals was found in riparian zones. The availability of vegetation and cover were key factors in locating small mammals. A working knowledge of the preferred habitats of some species was crucial to aiding in their collection. Such species as collared pikas (*Ochotona collaris*), hoary marmots (*Marmota caligata*), collared lemmings (*Dicrostonyx groenlandicus*), brown lemmings (*Lemmus trimucronatus*), and arctic ground squirrels (*Spermophilus parryi*) were specifically sought in their particular habitats. Pikas and hoary marmots were found in high elevation rocky/scree open alpine habitats. Lemmings, (collared and brown) were captured in open tussock and alpine tundra in areas dominated by rock, moss, and lichen (Fig. 7). Ground squirrels were found at all elevations in correspondence to dry open meadows.

Shrews were diverse in their habitat selection. Common shrews (*Sorex cinereus*) were found only in low elevation sites, though they appeared to be generalists in relation to vegetative preferences. Common shrews were collected in spruce and cottonwood forests, open tundra, riparian zones, and in alder/grass meadow. Dusky shrews (*S. monticolus*) were collected at all elevations and seemed to be very general in their habitat selection. These were the most numerous

shrews taken in this collecting event. A water shrew (*S. palustris*) was taken in a high open alpine stream in the Haines area. One tundra shrew (*S. tundrensis*) was taken from a shrubby tundra location near Bear Lake.

Voles were the most commonly collected small mammals. Red-backed voles (*Clethrionomys rutilus*) were found in almost all habitats and elevations that contained graminoids. Tundra voles (*Microtus oeconomus*) were found in meadows. Elevation did not seem to be a factor for tundra voles. Singing voles (*M. miurus*) were only found in high open alpine meadows near Tyonek and in the Chugach collection sites. Long-tailed voles (*M. longicaudus*) were common in all of the sampled habitat types and elevations near Haines.

Keen's deer mice (*Peromyscus keeni*) and meadow jumping mice (*Zapus hudsonius*) were found in grassy meadows at various elevations. Meadow jumping mice were found from Haines to Bear Lake, though they only occurred as high as the alpine transition zone. Keen's deer mice occurred only in Haines, but were found in grassy areas from the open alpine to riparian and alluvium meadows at low elevations.



Figure 7. High alpine area of Mount Ashmun where brown lemmings (*L. trimucronatus*) were taken for the first time in Southeast Alaska. Haines, July 2002.

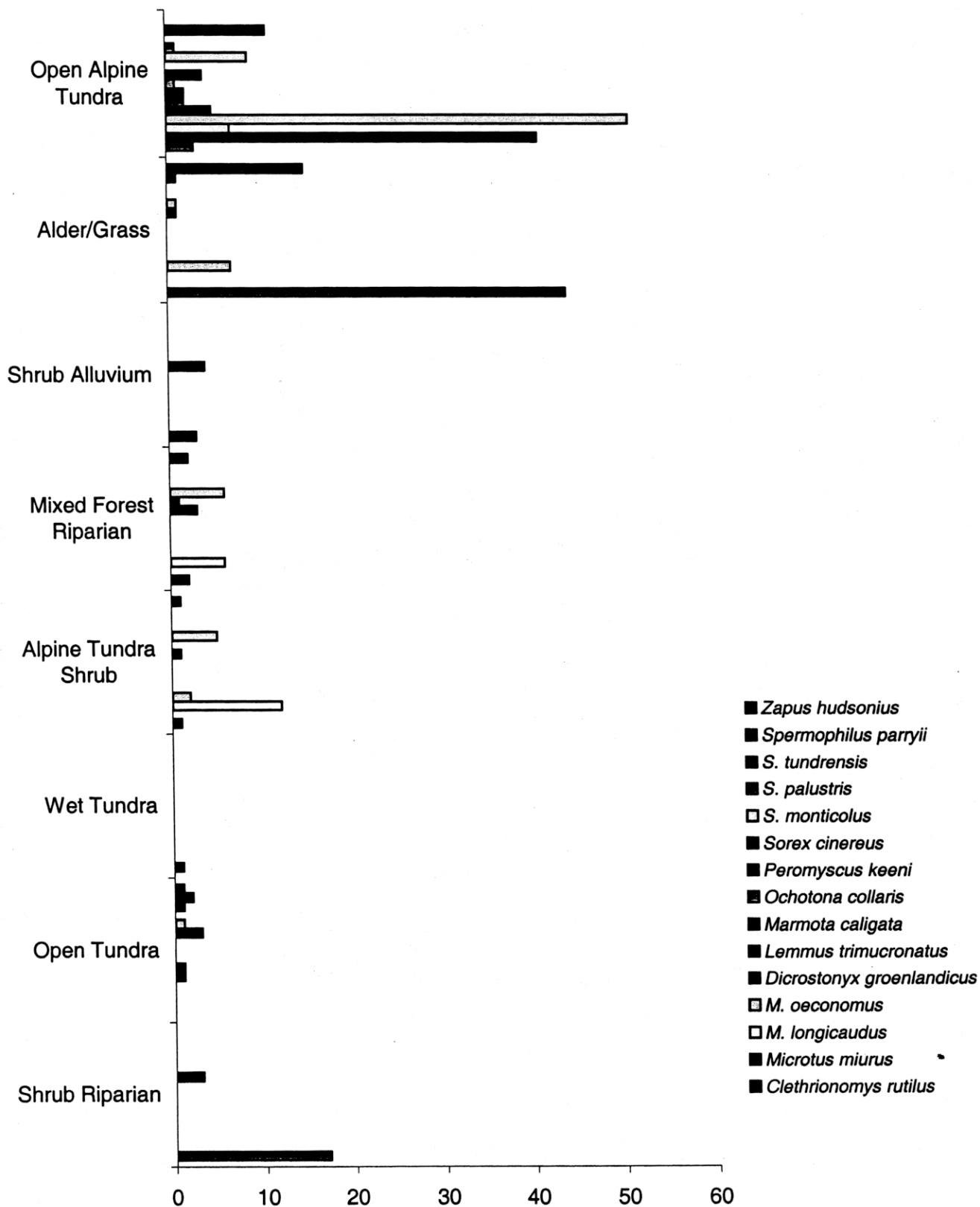


Figure 8. Number of specimens collected of each species in each general habitat type.

d) Trap Success

A variety of trap methods were employed in the summer of 2002 BLM lands mammal sampling. The most successful capture method employed was, by far, museum special snap traps. All species of shrews, voles, mice, and lemmings were taken in museum specials. Rat traps were used successfully for capturing arctic ground squirrels (*S. parryii*). Connibear traps were also used successfully to capture arctic ground squirrels and hoary marmots (*M. caligata*). Sherman traps were used with limited success in the Haines area for capturing mice and voles. Very few specimens were actually captured with this method. Pitfall trapping was attempted in many areas with extremely low success. The soil was either too shallow or too rocky, in most trapping localities, for pitfalls to be employed efficiently. Hunting was a successful additional capture method for collared pika (*O. collaris*), hoary marmots, and arctic ground squirrels.

5. SIGNIFICANT FINDINGS

The summer 2002 BLM lands mammal survey produced some notable and significant findings. In the Haines area a water shrew (*S. palustris*) was collected. Water shrews are rarely found or captured in Alaska. This specimen represents one of 28 Alaskan specimens in the UAM database and one of the 13 specimens from Southeast Alaska. Arctic ground squirrels (*S. parryii*) appeared abundant on some of the mountains north of Haines. However, very few have been collected in Southeast Alaska. Of the 8 specimen records from Southeast Alaska 5 were collected during this survey. The most significant finding from the Haines area was the collection of two brown lemmings (*L. trimucronatus*). These two specimens represent the first records of brown lemmings in Southeast Alaska.

In the Bear Lake area two notable and rare specimens were taken, one tundra shrew (*S. tundrensis*) and one meadow jumping mouse (*Z. hudsonius*). Both specimens represent gap fillers in the known distributions of these species.

The Cottonwood Bay area produced a new distribution record for collared lemmings (*D. groenlandicus*). This species appeared relatively common in the open alpine tundra areas.

In Tyonek we were able to find singing voles (*M. miurus*). This is a new distribution record for the species though they seemed abundant in the high alpine meadows.

Even though no specimen was taken, a collard pika (*O. collaris*) in the Haines area was seen on Klukwah Mountain and would represent a new distribution record if a specimen were ever taken. Similarly, hoary marmot (*M. caligata*) tracks, feces, and burrows were found on a mountain near Tyonek and would validate a range extension for the species if a specimen were collected.

6. RECOMMENDATIONS FOR FUTURE SURVEY EFFORTS

Sampling of these areas would be enhanced by leaving the mammals crew on site for 3-5 days. We were unable to spend as much time as necessary on location. Increased time at each site would allow a crew to search thoroughly for the full spectrum of species present. Often, rare or uncommon species will be harder to detect or capture than more common types. In some instances during the course of the BLM summer 2002 sampling effort, sign from rare or interesting species was detected but time constraints did not allow the crew to sample these sufficiently. Time was the major limiting factor in the survey success for this event.

7. ACKNOWLEDGMENTS

The success of the BLM lands summer 2002 collecting event was largely based on the hard work of many people. Thanks to Jeff Denton for his enthusiasm and support; his knowledge of habitat types and powers of observation proved invaluable to the success of this event. Thanks also to the BLM field crew for their aid in such tasks as preparing specimens and handling field gear, and to all UAM staff members who contributed their time, effort and knowledge to this effort.

8. LITERATURE CITED.

MacDonald, S.O. and J.A. Cook. 2001. Catalog of the Recent Mammals of Alaska. University of Alaska Museum. Pg. 5-272.

MacDonald, S.O. and J.A. Cook. 2000. The Mammal Fauna of Southeast Alaska. University of Alaska Museum. Pg. 11-76.

UAM Arctos Database 2003.

http://arctos.museum.uaf.edu:8080/cgi-bin/uam_db/specimensearch.cgi

Appendix

Summary data for specimens collected by UAM
Mammal Collection – Summer, 2002.

UAM Catalog Number		Scientific Name	Locality		Collector(s)		Sex and Repro	Age
AF Number	Field Number		Latitude/Longitude	Collection Date			Measurements	
Parts: Tissues								
UAM 64262	Microtus miurus		United States, Alaska, Tyonek Quad, near McCarthy River	17 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		female; no plsc	
AF# 57581	skull; Frozen Tissues		61.1380 / -152.0636				116-22-18-10 mm	20.11
UAM 64263	Clethrionomys rutilus		United States, Alaska, Iliamna Quad, Ursus Cove	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		female	
AF# 57454	ectoparasite(s), skull; Frozen Tissues		59.5236 / -153.7725				128-32-20-13 mm	19 g juvenile
UAM 64264	Clethrionomys rutilus		United States, Alaska, Iliamna Quad, Ursus Cove	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		male; T=2x1.5	
AF# 57455	skull; Frozen Tissues		59.5236 / -153.7725				124-33-19-14 mm	18.5
UAM 64265	Clethrionomys rutilus		United States, Alaska, Iliamna Quad, Ursus Cove	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		female	
AF# 57456	skull; Frozen Tissues		59.5236 / -153.7725				124-28-18-11 mm	19 g juvenile
UAM 64266	Clethrionomys rutilus		United States, Alaska, Iliamna Quad, Ursus Cove	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		male; T=10x6	
AF# 57457	cestode, skull; Frozen Tissues		59.5236 / -153.7725				120-31-17-13 mm	22 g
UAM 64267	Clethrionomys rutilus		United States, Alaska, Iliamna Quad, Ursus Cove	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		female	
AF# 57458	skull; Frozen Tissues		59.5236 / -153.7725				125-29-17-13 mm	20 g juvenile
UAM 64268	Clethrionomys rutilus		United States, Alaska, Iliamna Quad, Ursus Cove	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		female	
AF# 57459	skull; Frozen Tissues		59.5236 / -153.7725				121-28-19-19 mm	19 g juvenile
UAM 64269	Clethrionomys rutilus		United States, Alaska, Iliamna Quad, Ursus Cove	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		male; T=4x3	
AF# 57460	skull; Frozen Tissues		59.5236 / -153.7725				126-31-18-12 mm	19 g
UAM 64270	Clethrionomys rutilus		United States, Alaska, Iliamna Quad, Ursus Cove	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		male; T=10x6	
AF# 57461	skull; Frozen Tissues		59.5236 / -153.7725				135-30-19-12 mm	26 g
UAM 64271	Clethrionomys rutilus		United States, Alaska, Iliamna Quad, Ursus Cove	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		male; T=4x2	
AF# 57462	skull; Frozen Tissues		59.5236 / -153.7725				133-34-19-14 mm	20 g

UAM Catalog Number		Scientific Name		Locality		Collector(s)		Sex and Repro Measurements	
AF Number	Field Number			Latitude/Longitude	Collection Date				Age
Parts: Tissues									
UAM 64272	Clethrionomys rutilus			United States, Alaska, Iliamna Quad, Ursus Cove	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		female; 11embryos (4L, 7R); 9 plsc (4L, 5R)	
AF# 57463	skull; Frozen Tissues			59.5236 / -153.7725				154-40-18-13 mm	39 g
UAM 64273	Clethrionomys rutilus			United States, Alaska, Iliamna Quad, Ursus Cove	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		female; 7 plsc (3L, 4R)	
AF# 57464	skull; Frozen Tissues			59.5236 / -153.7725				144-33-18-16 mm	28 g
UAM 64274	Clethrionomys rutilus			United States, Alaska, Iliamna Quad, Ursus Cove	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		male; T=6x4	
AF# 57465	skull; Frozen Tissues			59.5236 / -153.7725				121-28-18-15 mm	22 g
UAM 64275	Clethrionomys rutilus			United States, Alaska, Iliamna Quad, Ursus Cove	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		male; T=4x3	
AF# 57466	skull; Frozen Tissues			59.5236 / -153.7725				115-27-17-11 mm	19 g
UAM 64276	Clethrionomys rutilus			United States, Alaska, Iliamna Quad, Ursus Cove	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		female	
AF# 57467	skull; Frozen Tissues			59.5236 / -153.7725				122-29-19-13 mm	17 g juvenile
UAM 64277	Clethrionomys rutilus			United States, Alaska, Iliamna Quad, Ursus Cove	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		female	
AF# 57468	skull; Frozen Tissues			59.5236 / -153.7725				119-30-19-12 mm	16 g juvenile
UAM 64278	Clethrionomys rutilus			United States, Alaska, Iliamna Quad, Ursus Cove	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		male; T=7x5	
AF# 57469	skull; Frozen Tissues			59.5236 / -153.7725				137-35-19-13 mm	22 g
UAM 64279	Clethrionomys rutilus			United States, Alaska, Iliamna Quad, Ursus Cove	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		male; T=4x3	
AF# 57470	skull; Frozen Tissues			59.5236 / -153.7725				134-32-19-14 mm	24 g
UAM 64280	Clethrionomys rutilus			United States, Alaska, Iliamna Quad, Ursus Cove	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		female	
AF# 57471	skull; Frozen Tissues			59.5236 / -153.7725				129-30-18-14 mm	20 g juvenile
UAM 64281	Clethrionomys rutilus			United States, Alaska, Iliamna Quad, Ursus Cove	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		female	
AF# 57472	skull; Frozen Tissues			59.5236 / -153.7725				125-31-18-12 mm	18 g juvenile

UAM Catalog Number		Scientific Name	Locality		Collector(s)		Sex and Repro
AF Number	Field Number		Latitude/Longitude	Collection Date			Measurements
Parts; Tissues							Age
UAM 64282	Clethrionomys rutilus	United States, Alaska, Iliamna Quad, Ursus Cove	59.5236 / -153.7725	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female	127-30-20-15 mm 20 g juvenile
AF# 57473	skull; Frozen Tissues						
UAM 64283	Clethrionomys rutilus	United States, Alaska, Iliamna Quad, Ursus Cove	59.5236 / -153.7725	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	male; T=4x3	120-30-17-13 mm 22 g
AF# 57474	skull; Frozen Tissues						
UAM 64284	Clethrionomys rutilus	United States, Alaska, Iliamna Quad, Ursus Cove	59.5236 / -153.7725	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female; 8 plsc (3L, 5R)	147-32-20-14 mm 35 g
AF# 57475	skull; Frozen Tissues						
UAM 64285	Clethrionomys rutilus	United States, Alaska, Iliamna Quad, Ursus Cove	59.5236 / -153.7725	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	male; T=3x2	124-31-18-13 mm 17 g
AF# 57476	skull; Frozen Tissues						
UAM 64286	Clethrionomys rutilus	United States, Alaska, Iliamna Quad, Ursus Cove	59.5236 / -153.7725	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female	129-31-20-10 mm 18 g juvenile
AF# 57477	skull; Frozen Tissues						
UAM 64287	Sorex cinereus	United States, Alaska, Iliamna Quad, Ursus Cove	59.5236 / -153.7725	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown	104-39-13-x mm 3.6 g
AF# 57478	whole animal; Frozen Tissues						
UAM 64288	Clethrionomys rutilus	United States, Alaska, Iliamna Quad, Ursus Cove	59.5236 / -153.7725	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	male; T=4x2	127-30-18-13 mm 21 g
AF# 57479	skull; Frozen Tissues						
UAM 64289	Zapus hudsonius	United States, Alaska, Iliamna Quad, Ursus Cove	59.5236 / -153.7725	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female; 5 embryos (3L, 2R); CR=4	227-134-34-15 mm 21.5
AF# 57480	skull; Frozen Tissues						
UAM 64290	Zapus hudsonius	United States, Alaska, Iliamna Quad, Ursus Cove	59.5236 / -153.7725	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female; 5 plsc (2L, 3R)	216-119-30-13 mm 17 g
AF# 57481	skull; Frozen Tissues						
UAM 64291	Zapus hudsonius	United States, Alaska, Iliamna Quad, Ursus Cove	59.5236 / -153.7725	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female; 5 embryos (2L, 3R); CR=20	215-125-31-14 mm 26 g
AF# 57482	skull; Frozen Tissues						

UAM Catalog Number		Scientific Name		Locality		Collector(s)		Sex and Repro Measurements	
AF Number	Field Number	Parts: Tissues	Field Number	Latitude/Longitude	Collection Date	Collector(s)	Collector(s)	Sex and Repro Measurements	Age
UAM 64292	Zapus hudsonius	skull; Frozen Tissues	UAM 64292	United States, Alaska, Iliamna Quad, Ursus Cove 59.5236 / -153.7725	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	Collector: Dusty L. McDonald, Kristian R. Larson	female; 7 embryos (5L, 2R) 227-134-32-13 mm 27 g	
UAM 64293	Microtus oeconomus	skull; Frozen Tissues	UAM 64293	United States, Alaska, Iliamna Quad, Ursus Cove 59.5236 / -153.7725	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	Collector: Dusty L. McDonald, Kristian R. Larson	female; 10 embryos (6L, 4R) 152-35-18-11 mm 34 g	
UAM 64294	Microtus oeconomus	skull; Frozen Tissues	UAM 64294	United States, Alaska, Iliamna Quad, Ursus Cove 59.5236 / -153.7725	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	Collector: Dusty L. McDonald, Kristian R. Larson	female; 7 plsc (3L, 5R) 167-43-18-13 mm 38 g	
UAM 64295	Microtus oeconomus	skull; Frozen Tissues	UAM 64295	United States, Alaska, Iliamna Quad, Ursus Cove 59.5236 / -153.7725	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	Collector: Dusty L. McDonald, Kristian R. Larson	female (?); 7 plsc (3L, 4R) 167-42-21-13 mm 38 g	
UAM 64296	Microtus oeconomus	skull; Frozen Tissues	UAM 64296	United States, Alaska, Iliamna Quad, Ursus Cove 59.5236 / -153.7725	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	Collector: Dusty L. McDonald, Kristian R. Larson	female; 6 embryos (3L, 3R); CR=6.5 145-33-21-13 mm 30 g	
UAM 64297	Microtus oeconomus	skull; Frozen Tissues	UAM 64297	United States, Alaska, Iliamna Quad, Ursus Cove 59.5236 / -153.7725	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	Collector: Dusty L. McDonald, Kristian R. Larson	female; 6 embryos (3L, 3R); CR=6 148-32-19-11 mm 34 g	
UAM 64298	Zapus hudsonius	skull; Frozen Tissues	UAM 64298	United States, Alaska, Iliamna Quad, Ursus Cove 59.5236 / -153.7725	11 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	Collector: Dusty L. McDonald, Kristian R. Larson	male; T=8x4 316-129-34-15 mm 16.8	
UAM 64299	Zapus hudsonius	skull; Frozen Tissues	UAM 64299	United States, Alaska, Iliamna Quad, Ursus Cove 59.5236 / -153.7725	11 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	Collector: Dusty L. McDonald, Kristian R. Larson	male; T=6x4 200-144-31-13 mm 17.7	
UAM 64300	Zapus hudsonius	skull; Frozen Tissues	UAM 64300	United States, Alaska, Iliamna Quad, Ursus Cove 59.5236 / -153.7725	11 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	Collector: Dusty L. McDonald, Kristian R. Larson	female 213-124-32-12 mm 15.7 juvenile	
UAM 64301	Microtus oeconomus	skull; Frozen Tissues	UAM 64301	United States, Alaska, Iliamna Quad, Ursus Cove 59.5236 / -153.7725	11 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	Collector: Dusty L. McDonald, Kristian R. Larson	female; 9 plsc (4L, 5R) 172-40-19-13 mm 40.5	

UAM Catalog Number		Scientific Name	Locality		Collector(s)		Sex and Repro
AF Number	Field Number		Latitude/Longitude	Collection Date			Measurements
Parts; Tissues							Age
UAM 64302	Clethrionomys rutilus		United States, Alaska, Iliamna Quad, Ursus Cove	11 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	male; T=3x5	
AF# 57517	skull; Frozen Tissues		59.5236 / -153.7725			126-30-19-13 mm	19.5
UAM 64303	Clethrionomys rutilus		United States, Alaska, Iliamna Quad, Ursus Cove	11 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female; 9 embryos (5L, 4R); CR=20	
AF# 57519	skull; Frozen Tissues		59.5236 / -153.7725			153-34-21-14 mm	51.6
UAM 64304	Clethrionomys rutilus		United States, Alaska, Iliamna Quad, Ursus Cove	11 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female	
AF# 57520	skull; Frozen Tissues		59.5236 / -153.7725			131-32-20-12 mm	18.6 juvenile
UAM 64305	Clethrionomys rutilus		United States, Alaska, Iliamna Quad, Ursus Cove	11 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	male; T=3x2	
AF# 57522	skull; Frozen Tissues		59.5236 / -153.7725			128-32-19-13 mm	19 g
UAM 64306	Clethrionomys rutilus		United States, Alaska, Iliamna Quad, Ursus Cove	11 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female; 8 embryos (5L, 3R)	
AF# 57523	skull; Frozen Tissues		59.5236 / -153.7725			143-35-18-11 mm	32.2
UAM 64307	Clethrionomys rutilus		United States, Alaska, Iliamna Quad, Ursus Cove	11 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	male; T=3x2	
AF# 57524	skull; Frozen Tissues		59.5236 / -153.7725			135-35-20-12 mm	20.9
UAM 64308	Clethrionomys rutilus		United States, Alaska, Iliamna Quad, Ursus Cove	11 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female	
AF# 57525	skull; Frozen Tissues		59.5236 / -153.7725			110-30-13-9 mm	9.6 g juvenile
UAM 64309	Clethrionomys rutilus		United States, Alaska, Iliamna Quad, Ursus Cove	11 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female	
AF# 57526	skull; Frozen Tissues		59.5236 / -153.7725			125-31-19-13 mm	18.2 juvenile
UAM 64310	Clethrionomys rutilus		United States, Alaska, Iliamna Quad, Ursus Cove	11 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female	
AF# 57527	skull; Frozen Tissues		59.5236 / -153.7725			124-31-19-10 mm	19.8 juvenile
UAM 64311	Clethrionomys rutilus		United States, Alaska, Iliamna Quad, Ursus Cove	11 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female	
AF# 57528	skull; Frozen Tissues		59.5236 / -153.7725			134-32-20-13 mm	20.4 juvenile

UAM Catalog Number AF Number	Scientific Name Field Number	Locality Latitude/Longitude	Collection Date	Collector(s)	Sex and Repro Measurements	Age
Parts; Tissues						
UAM 64312 AF# 57539 skull; Frozen Tissues	Clethrionomys rutilus	United States, Alaska, Iliamna Quad, Ursus Cove 59.5236 / -153.7725	12 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	male; T=13x9 129-38-19-10 mm 32.51	
UAM 64313 AF# 57540 skull; Frozen Tissues	Clethrionomys rutilus	United States, Alaska, Iliamna Quad, Ursus Cove 59.5236 / -153.7725	12 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female; vagina imperforate 85-22-15-10 mm 8.6 g	
UAM 64314 AF# 57541 skull; Frozen Tissues	Clethrionomys rutilus	United States, Alaska, Iliamna Quad, Ursus Cove 59.5236 / -153.7725	12 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown 81-19-16-8 mm 9.14 g	juvenile
UAM 64315 AF# 57542 skull; Frozen Tissues	Clethrionomys rutilus	United States, Alaska, Iliamna Quad, Ursus Cove 59.5236 / -153.7725	12 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female; no plsc 117-30-17-11 mm 16.24	
UAM 64316 AF# 57543 skull; Frozen Tissues	Clethrionomys rutilus	United States, Alaska, Iliamna Quad, Ursus Cove 59.5236 / -153.7725	12 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	male; T=6x4 121-29-19-14 mm 18.97	
UAM 64317 AF# 57544 skull; Frozen Tissues	Clethrionomys rutilus	United States, Alaska, Iliamna Quad, Ursus Cove 59.5236 / -153.7725	12 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female 109-28-17-12 mm 9.98	juvenile
UAM 64318 AF# 57545 skull; Frozen Tissues	Clethrionomys rutilus	United States, Alaska, Iliamna Quad, Ursus Cove 59.5236 / -153.7725	12 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	male; T=4x2 125-31-18-11 mm 20.19	
UAM 64319 AF# 57546 skull; Frozen Tissues	Microtus oeconomus	United States, Alaska, Iliamna Quad, Ursus Cove 59.5236 / -153.7725	12 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	male; T=7x5 151-33-20-11 mm 38.73	
UAM 64320 AF# 57492 tissues only; Frozen Tissues	Microtus oeconomus	United States, Alaska, Iliamna Quad, Ursus Cove 59.5236 / -153.7725	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown	embryo
UAM 64321 AF# 57493 tissues only; Frozen Tissues	Microtus oeconomus	United States, Alaska, Iliamna Quad, Ursus Cove 59.5236 / -153.7725	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown	embryo

UAM Catalog Number		Scientific Name		Locality		Collector(s)		Sex and Repro Measurements		Age	
AF Number	Field Number	Parts; Tissues		Latitude/Longitude	Collection Date						
UAM 64322	Microtus oeconomus			United States, Alaska, Iliamna Quad, Ursus Cove	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		sex unknown		embryo	
AF# 57494	tissues only; Frozen Tissues			59.5236 / -153.7725	10 Jul 2002						
UAM 64323	Microtus oeconomus			United States, Alaska, Iliamna Quad, Ursus Cove	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		sex unknown		embryo	
AF# 57495	tissues only; Frozen Tissues			59.5236 / -153.7725	10 Jul 2002						
UAM 64324	Microtus oeconomus			United States, Alaska, Iliamna Quad, Ursus Cove	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		sex unknown		embryo	
AF# 57496	tissues only; Frozen Tissues			59.5236 / -153.7725	10 Jul 2002						
UAM 64325	Microtus oeconomus			United States, Alaska, Iliamna Quad, Ursus Cove	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		sex unknown		embryo	
AF# 57497	tissues only; Frozen Tissues			59.5236 / -153.7725	10 Jul 2002						
UAM 64326	Microtus oeconomus			United States, Alaska, Iliamna Quad, Ursus Cove	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		sex unknown		embryo	
AF# 57498	tissues only; Frozen Tissues			59.5236 / -153.7725	10 Jul 2002						
UAM 64327	Zapus hudsonius			United States, Alaska, Iliamna Quad, Ursus Cove	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		sex unknown		embryo	
AF# 57499	tissues only; Frozen Tissues			59.5236 / -153.7725	10 Jul 2002						
UAM 64328	Zapus hudsonius			United States, Alaska, Iliamna Quad, Ursus Cove	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		sex unknown		embryo	
AF# 57500	tissues only; Frozen Tissues			59.5236 / -153.7725	10 Jul 2002						
UAM 64329	Zapus hudsonius			United States, Alaska, Iliamna Quad, Ursus Cove	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		sex unknown		embryo	
AF# 57501	tissues only; Frozen Tissues			59.5236 / -153.7725	10 Jul 2002						
UAM 64330	Microtus oeconomus			United States, Alaska, Iliamna Quad, Ursus Cove	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		sex unknown		embryo	
AF# 57502	tissues only; Frozen Tissues			59.5236 / -153.7725	10 Jul 2002						
UAM 64331	Zapus hudsonius			United States, Alaska, Iliamna Quad, Ursus Cove	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		sex unknown		embryo	
AF# 57503	tissues only; Frozen Tissues			59.5236 / -153.7725	10 Jul 2002						

UAM Catalog Number		Scientific Name	Locality		Collector(s)		Sex and Repro
AF Number	Field Number		Latitude/Longitude	Collection Date			Measurements
Parts; Tissues							Age
UAM 64332	Zapus hudsonius		United States, Alaska, Iliamna Quad, Ursus Cove	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown	embryo
AF# 57504	tissues only; Frozen Tissues		59.5236 / -153.7725				
UAM 64333	Zapus hudsonius		United States, Alaska, Iliamna Quad, Ursus Cove	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown	embryo
AF# 57505	tissues only; Frozen Tissues		59.5236 / -153.7725				
UAM 64334	Clethrionomys rutilus		United States, Alaska, Iliamna Quad, Ursus Cove	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown	embryo
AF# 57506	tissues only; Frozen Tissues		59.5236 / -153.7725				
UAM 64335	Zapus hudsonius		United States, Alaska, Iliamna Quad, Ursus Cove	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown	embryo
AF# 57507	tissues only; Frozen Tissues		59.5236 / -153.7725				
UAM 64336	Zapus hudsonius		United States, Alaska, Iliamna Quad, Ursus Cove	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown	embryo
AF# 57508	tissues only; Frozen Tissues		59.5236 / -153.7725				
UAM 64337	Zapus hudsonius		United States, Alaska, Iliamna Quad, Ursus Cove	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown	embryo
AF# 57509	tissues only; Frozen Tissues		59.5236 / -153.7725				
UAM 64338	Zapus hudsonius		United States, Alaska, Iliamna Quad, Ursus Cove	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown	embryo
AF# 57510	tissues only; Frozen Tissues		59.5236 / -153.7725				
UAM 64339	Zapus hudsonius		United States, Alaska, Iliamna Quad, Ursus Cove	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown	embryo
AF# 57511	tissues only; Frozen Tissues		59.5236 / -153.7725				
UAM 64340	Zapus hudsonius		United States, Alaska, Iliamna Quad, Ursus Cove	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown	embryo
AF# 57512	tissues only; Frozen Tissues		59.5236 / -153.7725				
UAM 64341	Clethrionomys rutilus		United States, Alaska, Iliamna Quad, Ursus Cove	11 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown	embryo
AF# 57529	tissues only; Frozen Tissues		59.5236 / -153.7725				

UAM Catalog Number		Scientific Name	Locality		Collector(s)		Sex and Repro
AF Number	Field Number		Latitude/Longitude	Collection Date			Measurements
Parts; Tissues							Age
UAM 64342	Clethrionomys rutilus		United States, Alaska, Iliamna Quad, Ursus Cove		Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown	embryo
AF# 57530	tissues only; Frozen Tissues		59.5236 / -153.7725	11 Jul 2002			
UAM 64343	Clethrionomys rutilus		United States, Alaska, Iliamna Quad, Ursus Cove		Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown	embryo
AF# 57531	tissues only; Frozen Tissues		59.5236 / -153.7725	11 Jul 2002			
UAM 64344	Clethrionomys rutilus		United States, Alaska, Iliamna Quad, Ursus Cove		Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown	embryo
AF# 57532	tissues only; Frozen Tissues		59.5236 / -153.7725	11 Jul 2002			
UAM 64345	Clethrionomys rutilus		United States, Alaska, Iliamna Quad, Ursus Cove		Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown	embryo
AF# 57533	tissues only; Frozen Tissues		59.5236 / -153.7725	11 Jul 2002			
UAM 64346	Clethrionomys rutilus		United States, Alaska, Iliamna Quad, Ursus Cove		Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown	embryo
AF# 57534	tissues only; Frozen Tissues		59.5236 / -153.7725	11 Jul 2002			
UAM 64347	Clethrionomys rutilus		United States, Alaska, Iliamna Quad, Ursus Cove		Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown	embryo
AF# 57535	tissues only; Frozen Tissues		59.5236 / -153.7725	11 Jul 2002			
UAM 64348	Clethrionomys rutilus		United States, Alaska, Iliamna Quad, Ursus Cove		Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown	embryo
AF# 57536	tissues only; Frozen Tissues		59.5236 / -153.7725	11 Jul 2002			
UAM 64349	Clethrionomys rutilus		United States, Alaska, Iliamna Quad, Ursus Cove		Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown	embryo
AF# 57537	tissues only; Frozen Tissues		59.5236 / -153.7725	11 Jul 2002			
UAM 64350	Clethrionomys rutilus		United States, Alaska, Iliamna Quad, Ursus Cove		Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown	embryo
AF# 57538	tissues only; Frozen Tissues		59.5236 / -153.7725	11 Jul 2002			
UAM 64351	Microtus miurus		United States, Alaska, Anchorage Quad, 2 miles N of Bold Peak		Collector: Dusty L. McDonald, Kristian R. Larson	female; vagina perforate; no plsc	
AF# 57582	skull; Frozen Tissues		61.365 / -148.9083	20 Jul 2002		96-19-15-10 mm	12.92

UAM Catalog Number		Scientific Name	Locality		Collector(s)		Sex and Repro
AF Number	Field Number		Latitude/Longitude	Collection Date			Measurements
Parts: Tissues							Age
UAM 64352	Microtus miurus		United States, Alaska, Anchorage Quad, 2 miles N of Bold Peak		Collector: Dusty L. McDonald, Kristian R. Larson		male; T=10x7
AF# 57583	skull; Frozen Tissues		61.365 / -148.9083	20 Jul 2002			154-24-21-12 mm 46.51
UAM 64353	Microtus miurus		United States, Alaska, Anchorage Quad, 2 miles N of Bold Peak		Collector: Dusty L. McDonald, Kristian R. Larson		female; 5 embryos (2L, 3R); CR=16
AF# 57584	skull; Frozen Tissues		61.365 / -148.9083	20 Jul 2002			148-24-18-15 mm 37.93
UAM 64354	Microtus miurus		United States, Alaska, Anchorage Quad, 2 miles N of Bold Peak		Collector: Dusty L. McDonald, Kristian R. Larson		male; T=4x3
AF# 57585	skull; Frozen Tissues		61.365 / -148.9083	20 Jul 2002			115-21-17-10 mm 14.75
UAM 64355	Microtus miurus		United States, Alaska, Anchorage Quad, 2 miles N of Bold Peak		Collector: Dusty L. McDonald, Kristian R. Larson		female; 5 plsc (2L, 3R)
AF# 57586	skull; Frozen Tissues		61.365 / -148.9083	20 Jul 2002			137-18-15-9 mm 31.38
UAM 64356	Microtus miurus		United States, Alaska, Anchorage Quad, 2 miles N of Bold Peak		Collector: Dusty L. McDonald, Kristian R. Larson		female; vagina perforate; no plsc
AF# 57587	skull; Frozen Tissues		61.365 / -148.9083	20 Jul 2002			91-19-12-8 mm 12.31 g juvenile
UAM 64357	Microtus miurus		United States, Alaska, Anchorage Quad, 2 miles N of Bold Peak		Collector: Dusty L. McDonald, Kristian R. Larson		male; T=5x3
AF# 57588	skull; Frozen Tissues		61.365 / -148.9083	20 Jul 2002			97-18-16-8 mm 10.3 g juvenile
UAM 64358	Microtus miurus		United States, Alaska, Anchorage Quad, 2 miles N of Bold Peak		Collector: Dusty L. McDonald, Kristian R. Larson		female; 16 plsc (9L, 7R)
AF# 57589	skull; Frozen Tissues		61.365 / -148.9083	20 Jul 2002			136-19-18-14 mm 29.37
UAM 64359	Microtus miurus		United States, Alaska, Anchorage Quad, 2 miles N of Bold Peak		Collector: Dusty L. McDonald, Kristian R. Larson		male; T=4x3
AF# 57590	skull; Frozen Tissues		61.365 / -148.9083	20 Jul 2002			120-21-18-14 mm 17.34
UAM 64360	Microtus miurus		United States, Alaska, Anchorage Quad, 2 miles N of Bold Peak		Collector: Dusty L. McDonald, Kristian R. Larson		male; T=5x3
AF# 57591	skull; Frozen Tissues		61.365 / -148.9083	20 Jul 2002			110-21-17-13 mm 13.02
UAM 64361	Microtus miurus		United States, Alaska, Anchorage Quad, 2 miles N of Bold Peak		Collector: Dusty L. McDonald, Kristian R. Larson		female; vagina imperforate
AF# 57592	skull; Frozen Tissues		61.365 / -148.9083	20 Jul 2002			101-18-18-11 mm 10.78

UAM Catalog Number	Scientific Name	Locality	Collector(s)	Sex and Repro	Age
AF Number	Field Number	Latitude/Longitude	Collection Date	Measurements	
Parts; Tissues					
UAM 64362 AF# 57593 skull; Frozen Tissues	Microtus miurus	United States, Alaska, Anchorage Quad, 2 miles N of Bold Peak 61.365 / -148.9083	20 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female; 6 embryos (2L, 4R) 132-23-18-13 mm 31.35
UAM 64363 AF# 57594 carcass, skin, skull; Frozen Tissues	Ochotona collaris	United States, Alaska, Anchorage Quad, 2 miles N of Bold Peak 61.365 / -148.9083	20 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	male; T=3x2 168-x-29-22 mm 94.14
UAM 64364 AF# 57595 skull; Frozen Tissues	Spermophilus parryi	United States, Alaska, Anchorage Quad, 2 miles N of Bold Peak 61.365 / -148.9083	20 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female; 4 plsc (2L, 2R) 305-81-49-9 mm 334 g
UAM 64365 AF# 62245 tissues only; Frozen Tissues	Microtus miurus	United States, Alaska, Anchorage Quad, 2 miles N of Bold Peak 61.365 / -148.9083	20 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown embryo
UAM 64366 AF# 62204 tissues only; Frozen Tissues	Microtus miurus	United States, Alaska, Anchorage Quad, 2 miles N of Bold Peak 61.365 / -148.9083	20 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown embryo
UAM 64367 AF# 62205 tissues only; Frozen Tissues	Microtus miurus	United States, Alaska, Anchorage Quad, 2 miles N of Bold Peak 61.365 / -148.9083	20 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown embryo
UAM 64368 AF# 62206 tissues only; Frozen Tissues	Microtus miurus	United States, Alaska, Anchorage Quad, 2 miles N of Bold Peak 61.365 / -148.9083	20 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown embryo
UAM 64369 AF# 62207 tissues only; Frozen Tissues	Microtus miurus	United States, Alaska, Anchorage Quad, 2 miles N of Bold Peak 61.365 / -148.9083	20 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown embryo
UAM 64370 AF# 62208 tissues only; Frozen Tissues	Microtus miurus	United States, Alaska, Anchorage Quad, 2 miles N of Bold Peak 61.365 / -148.9083	20 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown embryo
UAM 64371 AF# 57441 skull; Frozen Tissues	Spermophilus parryi	United States, Alaska, Iliamna Quad, Cottonwood Bay 59.6380 / -153.6997	Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	male; T=9x4 330-90-51-17 mm 440 g

UAM Catalog Number		Scientific Name	Locality		Collector(s)		Sex and Repro
AF Number	Field Number		Latitude/Longitude	Collection Date			Measurements
Parts; Tissues							Age
UAM 64372	Spermophilus parryi		United States, Alaska, Anchorage Quad, 2 miles E of Bold Peak	20 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female	
AF# 57596	skull; Frozen Tissues		61.3438 / -148.86			240-70-48-8 mm	178 g
UAM 64373	Microtus miurus		United States, Alaska, Anchorage Quad, 2 miles E of Bold Peak	20 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	male; T=3x2	
AF# 57597	skull; Frozen Tissues		61.3438 / -148.86			102-17-16-11 mm	13.03
UAM 64374	Microtus miurus		United States, Alaska, Anchorage Quad, 2 miles E of Bold Peak	20 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female; vagina perforate; no plsc	
AF# 57598	skull; Frozen Tissues		61.3438 / -148.86			112-20-17-12 mm	14.9
UAM 64375	Microtus miurus		United States, Alaska, Anchorage Quad, 2 miles E of Bold Peak	20 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	male; T=3x2	
AF# 57599	skull; Frozen Tissues		61.3438 / -148.86			101-21-17-12 mm	14.41
UAM 64376	Microtus miurus		United States, Alaska, Anchorage Quad, 2 miles E of Bold Peak	20 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female; vagina perforate; no plsc	
AF# 63785	skull; Frozen Tissues		61.3438 / -148.86			116-20-17-11 mm	18.62
UAM 64377	Microtus miurus		United States, Alaska, Anchorage Quad, 2 miles E of Bold Peak	20 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	male; T=7x5	
AF# 63786	skull; Frozen Tissues		61.3438 / -148.86			113-27-20-10 mm	18.7
UAM 64378	Microtus miurus		United States, Alaska, Anchorage Quad, 2 miles E of Bold Peak	20 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	male; T=2x1	
AF# 63787	skull; Frozen Tissues		61.3438 / -148.86			106-20-17-9 mm	13.77
UAM 64379	Microtus miurus		United States, Alaska, Anchorage Quad, 2 miles E of Bold Peak	20 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female; 7 embryos (4L, 3R); CR=17	
AF# 63788	skull; Frozen Tissues		61.3438 / -148.86			150-19-17-14 mm	43.71
UAM 64380	Microtus miurus		United States, Alaska, Anchorage Quad, 2 miles E of Bold Peak	20 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female; no plsc	
AF# 63789	skull; Frozen Tissues		61.3438 / -148.86			109-21-18-12 mm	14.56
UAM 64381	Microtus miurus		United States, Alaska, Anchorage Quad, 2 miles E of Bold Peak	20 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female; vagina perforate; no plsc	
AF# 63790	skull; Frozen Tissues		61.3438 / -148.86			103-22-19-11 mm	18.08

UAM Catalog Number		Scientific Name	Locality		Collector(s)		Sex and Repro
AF Number	Field Number		Latitude/Longitude	Collection Date			Measurements
Parts; Tissues							Age
UAM 64382	Microtus miurus		United States, Alaska, Anchorage Quad, 2 miles E of Bold Peak		Collector: Dusty L. McDonald, Kristian R. Larson		male; T=10x6
AF# 63791	skull; Frozen Tissues		61.3438 / -148.86	20 Jul 2002			149-30-20-14 mm 46.12
UAM 64383	Microtus miurus		United States, Alaska, Anchorage Quad, 2 miles E of Bold Peak		Collector: Dusty L. McDonald, Kristian R. Larson		male; T=4x2
AF# 63792	skull; Frozen Tissues		61.3438 / -148.86	20 Jul 2002			119-24-19-13 mm 17.36
UAM 64384	Microtus miurus		United States, Alaska, Anchorage Quad, 2 miles E of Bold Peak		Collector: Dusty L. McDonald, Kristian R. Larson		female
AF# 63793	skull; Frozen Tissues		61.3438 / -148.86	20 Jul 2002			102-19-18-17 mm 13.84 juvenile
UAM 64385	Microtus miurus		United States, Alaska, Anchorage Quad, 2 miles E of Bold Peak		Collector: Dusty L. McDonald, Kristian R. Larson		female
AF# 63794	skull; Frozen Tissues		61.3438 / -148.86	20 Jul 2002			105-18-17-10 mm 13.63 juvenile
UAM 64386	Microtus miurus		United States, Alaska, Anchorage Quad, 2 miles E of Bold Peak		Collector: Dusty L. McDonald, Kristian R. Larson		sex unknown
AF# 62209	tissues only; Frozen Tissues		61.3438 / -148.86	20 Jul 2002			embryo
UAM 64387	Microtus oeconomus		United States, Alaska, Tyonek Quad, 1 mile S of Max Lake		Collector: Dusty L. McDonald, Kristian R. Larson		female; 5 embryos (3R, 2L); CR=10
AF# 57547	skull; Frozen Tissues		61.3577 / -152.8691	13 Jul 2002			104-25-19-12 mm 24 g
UAM 64388	Microtus oeconomus		United States, Alaska, Tyonek Quad, 1 mile S of Max Lake		Collector: Dusty L. McDonald, Kristian R. Larson		male; T=10x8
AF# 57548	skull; Frozen Tissues		61.3577 / -152.8691	13 Jul 2002			141-22-19-16 mm 40.38
UAM 64389	Microtus oeconomus		United States, Alaska, Tyonek Quad, 1 mile S of Max Lake		Collector: Dusty L. McDonald, Kristian R. Larson		female; vagina perforate; no plsc
AF# 57554	skull; Frozen Tissues		61.3577 / -152.8691	15 Jul 2002			
UAM 64390	Microtus oeconomus		United States, Alaska, Tyonek Quad, 1 mile S of Max Lake		Collector: Dusty L. McDonald, Kristian R. Larson		male; T=4x3
AF# 57555	skull; Frozen Tissues		61.3577 / -152.8691	15 Jul 2002			103-22-19-11 mm 18.03
UAM 64391	Microtus oeconomus		United States, Alaska, Tyonek Quad, 1 mile S of Max Lake		Collector: Dusty L. McDonald, Kristian R. Larson		male; T=4x3
AF# 57556	skull; Frozen Tissues		61.3577 / -152.8691	15 Jul 2002			111-19-19-11 mm 17.44

UAM Catalog Number		Scientific Name	Locality		Collector(s)		Sex and Repro
AF Number	Field Number		Latitude/Longitude	Collection Date			Measurements
Parts; Tissues							Age
UAM 64392	Microtus miurus		United States, Alaska, Tyonek Quad, 1		Collector: Dusty L. McDonald,		male; T=4x2
AF# 57557			mile S of Max Lake		Kristian R. Larson		
skull; Frozen Tissues			61.3577 / -152.8691	15 Jul 2002			124-25-18-12 mm 17.73
UAM 64393	Microtus sp.		United States, Alaska, Tyonek Quad, 1		Collector: Dusty L. McDonald,		female; no plsc
AF# 57558			mile S of Max Lake		Kristian R. Larson		
skull; Frozen Tissues			61.3577 / -152.8691	15 Jul 2002			119-29-17-10 mm 17.71
UAM 64394	Microtus miurus		United States, Alaska, Tyonek Quad, 1		Collector: Dusty L. McDonald,		male; T=11x7
AF# 57559			mile S of Max Lake		Kristian R. Larson		
skull; Frozen Tissues			61.3577 / -152.8691	15 Jul 2002			126-10-19-17 mm 40.36
UAM 64395	Microtus miurus		United States, Alaska, Tyonek Quad, 1		Collector: Dusty L. McDonald,		female
AF# 57560			mile S of Max Lake		Kristian R. Larson		
skull; Frozen Tissues			61.3577 / -152.8691	15 Jul 2002			144-23-18-12 mm 35.75
UAM 64396	Microtus miurus		United States, Alaska, Tyonek Quad, 1		Collector: Dusty L. McDonald,		male; T=7x4
AF# 57561			mile S of Max Lake		Kristian R. Larson		
skull; Frozen Tissues			61.3577 / -152.8691	15 Jul 2002			150-20-19-15 mm 17.35
UAM 64397	Microtus miurus		United States, Alaska, Tyonek Quad, 1		Collector: Dusty L. McDonald,		female; 5 embryos (3L, 2R); CR=16
AF# 57562			mile S of Max Lake		Kristian R. Larson		
skull; Frozen Tissues			61.3577 / -152.8691	15 Jul 2002			129-25-18-14 mm 28.08
UAM 64398	Microtus miurus		United States, Alaska, Tyonek Quad, 1		Collector: Dusty L. McDonald,		female; 5 embryos (2L, 3R); CR=16
AF# 57563			mile S of Max Lake		Kristian R. Larson		
skull; Frozen Tissues			61.3577 / -152.8691	15 Jul 2002			130-24-16-14 mm 29.27
UAM 64399	Microtus miurus		United States, Alaska, Tyonek Quad, 1		Collector: Dusty L. McDonald,		female; 3 embryos (1L, 2R); CR=10
AF# 57564			mile S of Max Lake		Kristian R. Larson		
skull; Frozen Tissues			61.3577 / -152.8691	15 Jul 2002			115-20-19-9 mm 21.39
UAM 64400	Microtus miurus		United States, Alaska, Tyonek Quad, 1		Collector: Dusty L. McDonald,		female; 10 plsc (6L, 4R)
AF# 57565			mile S of Max Lake		Kristian R. Larson		
skull; Frozen Tissues			61.3577 / -152.8691	15 Jul 2002			137-24-18-14 mm 32.67
UAM 64401	Microtus miurus		United States, Alaska, Tyonek Quad, 1		Collector: Dusty L. McDonald,		female; 4 embryos (1L, 3R); CR=2
AF# 57566			mile S of Max Lake		Kristian R. Larson		
skull; Frozen Tissues			61.3577 / -152.8691	15 Jul 2002			116-23-19-11 mm 15.2

UAM Catalog Number		Scientific Name	Locality		Collector(s)		Sex and Repro
AF Number	Field Number		Latitude/Longitude	Collection Date			Measurements
Parts; Tissues							Age
UAM 64402	Microtus miurus		United States, Alaska, Tyonek Quad, 1 mile S of Max Lake	15 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female; 7 embryos (5L, 2R); CR=14	
AF# 57567	skull; Frozen Tissues		61.3577 / -152.8691			132-23-21-14 mm	28.89
UAM 64403	Microtus miurus		United States, Alaska, Tyonek Quad, 1 mile S of Max Lake	15 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	male; T=3	
AF# 57571	skull; Frozen Tissues		61.3577 / -152.8691			113-22-18-11 mm	17.31
UAM 64404	Microtus miurus		United States, Alaska, Tyonek Quad, 1 mile S of Max Lake	15 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female; 6 embryos (3L, 3R); CR=2	
AF# 57568	skull; Frozen Tissues		61.3577 / -152.8691			152-27-21-12 mm	39.82
UAM 64405	Microtus miurus		United States, Alaska, Tyonek Quad, 1 mile S of Max Lake	15 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female	
AF# 57570	skull; Frozen Tissues		61.3577 / -152.8691				
UAM 64406	Microtus miurus		United States, Alaska, Tyonek Quad, 1 mile S of Max Lake	15 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	male; T=3	
AF# 57572	skull; Frozen Tissues		61.3577 / -152.8691				
UAM 64407	Clethrionomys rutilus		United States, Alaska, Tyonek Quad, 1 mile S of Max Lake	15 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	male; T=13x8	
AF# 57573	skull; Frozen Tissues		61.3577 / -152.8691			144-36-19-14 mm	33.38
UAM 64408	Microtus miurus		United States, Alaska, Tyonek Quad, 1 mile S of Max Lake	15 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown	embryo
AF# 62246	tissues only; Frozen Tissues		61.3577 / -152.8691				
UAM 64409	Microtus miurus		United States, Alaska, Tyonek Quad, 1 mile S of Max Lake	15 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown	embryo
AF# 62240	tissues only; Frozen Tissues		61.3577 / -152.8691				
UAM 64410	Microtus miurus		United States, Alaska, Tyonek Quad, 1 mile S of Max Lake	15 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown	embryo
AF# 62241	tissues only; Frozen Tissues		61.3577 / -152.8691				
UAM 64411	Microtus oeconomus		United States, Alaska, Tyonek Quad, 1 mile S of Max Lake	13 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown	embryo
AF# 62244	tissues only; Frozen Tissues		61.3577 / -152.8691				

UAM Catalog Number		Scientific Name	Locality		Collector(s)		Sex and Repro	Age
AF Number	Field Number		Latitude/Longitude	Collection Date			Measurements	
Parts; Tissues								
UAM 64412	Microtus miurus		United States, Alaska, Tyonek Quad, 1 mile S of Max Lake	15 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown		embryo
AF# 62203	tissues only; Frozen Tissues		61.3577 / -152.8691					
UAM 64413	Microtus miurus		United States, Alaska, Tyonek Quad, 1 mile S of Max Lake	15 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown		embryo
AF# 62210	tissues only; Frozen Tissues		61.3577 / -152.8691					
UAM 64414	Microtus miurus		United States, Alaska, Tyonek Quad, 1 mile S of Max Lake	15 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown		embryo
AF# 62211	tissues only; Frozen Tissues		61.3577 / -152.8691					
UAM 64415	Microtus miurus		United States, Alaska, Tyonek Quad, 1 mile S of Max Lake	15 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown		embryo
AF# 62212	tissues only; Frozen Tissues		61.3577 / -152.8691					
UAM 64416	Microtus miurus		United States, Alaska, Tyonek Quad, 1 mile S of Max Lake	15 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown		embryo
AF# 62213	tissues only; Frozen Tissues		61.3577 / -152.8691					
UAM 64417	Microtus miurus		United States, Alaska, Tyonek Quad, 1 mile S of Max Lake	15 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown		embryo
AF# 62214	tissues only; Frozen Tissues		61.3577 / -152.8691					
UAM 64418	Microtus miurus		United States, Alaska, Tyonek Quad, 1 mile S of Max Lake	15 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown		embryo
AF# 62215	tissues only; Frozen Tissues		61.3577 / -152.8691					
UAM 64419	Microtus miurus		United States, Alaska, Tyonek Quad, 1 mile S of Max Lake	15 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown		embryo
AF# 62216	tissues only; Frozen Tissues		61.3577 / -152.8691					
UAM 64420	Zapus hudsonius		United States, Alaska, Chignik Quad, Bear Lake Lodge	06 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown		
AF# 57409	tissues only; Frozen Tissues		56.0216 / -160.2027					
UAM 64421	Sorex monticolus		United States, Alaska, Chignik Quad, Bear Lake Lodge	04 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown		
AF# 57402	whole animal; Frozen Tissues		56.0216 / -160.2027				112-49-15-x mm	5.5 g

UAM Catalog Number		Scientific Name	Locality		Collector(s)		Sex and Repro	Age
AF Number	Field Number		Latitude/Longitude	Collection Date			Measurements	
Parts; Tissues								
UAM 64422	Sorex tundrensis		United States, Alaska, Chignik Quad, 5.9 km 14 degrees from Bear Lake 56.29 / -160.1675	04 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		female; 7 embryos	
AF# 57403	whole animal; Frozen Tissues							
UAM 64423	Sorex cinereus		United States, Alaska, Chignik Quad, 5.9 km 14 degrees from Bear Lake 56.29 / -160.1675	04 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		sex unknown	
AF# 57404	whole animal; Frozen Tissues						92-40-11-x mm 3.6 g	
UAM 64424	Sorex cinereus		United States, Alaska, Chignik Quad, 5.9 km 14 degrees from Bear Lake 56.29 / -160.1675	04 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		sex unknown	
AF# 57405	whole animal; Frozen Tissues						115-41-10-x mm 5.1 g	
UAM 64425	Clethrionomys rutilus		United States, Alaska, Ugashik Quad, Ugashik Bay 57.4061 / -157.6908	07 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		male; T=12x8	
AF# 57427	skull; Frozen Tissues						142-35-18-14 mm 27 g	
UAM 64426	Microtus longicaudus		United States, Alaska, Skagway Quad, Tohitkah Mountain 59.6232 / -136.0749	26 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson		male; T=7x5	
AF# 63711	skull; Frozen Tissues						148-51-22-17 mm 26.49	
UAM 64427	Microtus sp.		United States, Alaska, Skagway Quad, Tohitkah Mountain 59.6232 / -136.0749	26 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson		male; T=12x7	
AF# 63712	skull; Frozen Tissues						151-53-21-21 mm 31.55	
UAM 64428	Microtus longicaudus		United States, Alaska, Skagway Quad, Tohitkah Mountain 59.6232 / -136.0749	26 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson		male; T=9x7	
AF# 63713	skull; Frozen Tissues						151-49-20-16 mm 26.66	
UAM 64429	Microtus longicaudus		United States, Alaska, Skagway Quad, Tohitkah Mountain 59.6232 / -136.0749	26 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson		female; 6 embryos (6L, 0R); CR=4	
AF# 63714	skull; Frozen Tissues							
UAM 64430	Spermophilus parryi		United States, Alaska, Skagway Quad, Tohitkah Mountain 59.6253 / -136.0893	26 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson		female; 5 plsc (5L, 0R)	
AF# 63716	skull; Frozen Tissues							
UAM 64431	Spermophilus parryi		United States, Alaska, Skagway Quad, Tohitkah Mountain 59.6253 / -136.0893	26 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson		male; T=6x4	
AF# 63717	skull; Frozen Tissues						242-62-50-11 mm 186 g	

UAM Catalog Number		Scientific Name		Locality		Collector(s)		Sex and Repro Measurements	
AF Number	Field Number			Latitude/Longitude	Collection Date				Age
Parts: Tissues									
UAM 64432	Spermophilus parryi			United States, Alaska, Skagway Quad, Tohitkah Mountain		Collector: Robert N. Allen, Kristian R. Larson		male; T=5x4	
AF# 63718				59.6253 / -136.0893	26 Jul 2002			162-69-50-14 mm	238 g
	postcranial skeleton, skin, skull; Frozen Tissues								
UAM 64433	Microtus longicaudus			United States, Alaska, Skagway Quad, Tohitkah Mountain		Collector: Robert N. Allen, Kristian R. Larson		male; T=12x8	
AF# 63719				59.6253 / -136.0893	26 Jul 2002			143-44-12-16 mm	28.13
	skull; Frozen Tissues								
UAM 64434	Sorex monticolus			United States, Alaska, Skagway Quad, Tohitkah Mountain		Collector: Robert N. Allen, Kristian R. Larson		male; T=5x4	
AF# 63720				59.6253 / -136.0893	26 Jul 2002			106-45-12-x mm	7.67 g
	skull; Frozen Tissues								
UAM 64435	Sorex monticolus			United States, Alaska, Skagway Quad, Tohitkah Mountain		Collector: Robert N. Allen, Kristian R. Larson		sex unknown	
AF# 63721				59.6253 / -136.0893	26 Jul 2002			110-45-11-x mm	7.46 g
	skull; Frozen Tissues								
UAM 64436	Lemmus trimucronatus			United States, Alaska, Skagway Quad, Tohitkah Mountain		Collector: Robert N. Allen, Kristian R. Larson		male; T=7x6	
AF# 63722				59.6253 / -136.0893	26 Jul 2002			114-12-18-12 mm	31.01
	carcass, skin, skull; Frozen Tissues								
UAM 64437	Sorex monticolus			United States, Alaska, Skagway Quad, Tohitkah Mountain		Collector: Robert N. Allen, Kristian R. Larson		male; T<1	
AF# 63724				59.6253 / -136.0893	27 Jul 2002			102-49-12-x mm	5.62 g
	skull; Frozen Tissues								
UAM 64438	Microtus longicaudus			United States, Alaska, Skagway Quad, Tohitkah Mountain		Collector: Robert N. Allen, Kristian R. Larson		male; T=13x8	
AF# 63700				59.6232 / -136.0749	27 Jul 2002			153-58-20-16 mm	33.19
	skull; Frozen Tissues								
UAM 64439	Microtus longicaudus			United States, Alaska, Skagway Quad, Tohitkah Mountain		Collector: Robert N. Allen, Kristian R. Larson		male; T=9x7	
AF# 63701				59.6232 / -136.0749	27 Jul 2002			141-51-20-14 mm	23.76
	skull; Frozen Tissues								
UAM 64440	Sorex palustris			United States, Alaska, Skagway Quad, Tohitkah Mountain		Collector: Robert N. Allen, Kristian R. Larson		male; T=5x4	
AF# 63705				59.6232 / -136.0749	27 Jul 2002			146-66-19-x mm	15.65
	carcass, skin, skull; Frozen Tissues								
UAM 64441	Microtus sp.			United States, Alaska, Skagway Quad, Tohitkah Mountain		Collector: Robert N. Allen, Kristian R. Larson		male; T=6x5	
AF# 63702				59.6232 / -136.0749	27 Jul 2002			122-33-20-15 mm	23.02
	skull; Frozen Tissues								

UAM Catalog Number			Scientific Name	Locality		Collector(s)	Sex and Repro Measurements	Age
AF Number	Field Number			Latitude/Longitude	Collection Date			
Parts; Tissues								
UAM 64442	Microtus longicaudus		United States, Alaska, Skagway Quad, Tohitkah Mountain	59.6253 / -136.0893	27 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson	female; 4 embryos (2L, 2R); CR=10	
AF# 63723		skull; Frozen Tissues						
UAM 64443	Sorex monticolus		United States, Alaska, Skagway Quad, Tohitkah Mountain	59.6232 / -136.0749	27 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson	male; T=5x4	
AF# 63703		skull; Frozen Tissues					112-46-13-x mm 8.06 g	
UAM 64444	Sorex monticolus		United States, Alaska, Skagway Quad, Tohitkah Mountain	59.6232 / -136.0749	27 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson	male; T=5x4	
AF# 63704		skull; Frozen Tissues					114-45-14-x mm 8.35 g over-winter	
UAM 64445	Microtus longicaudus		United States, Alaska, Skagway Quad, Tohitkah Mountain	59.6253 / -136.0893	27 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson	sex unknown	
AF# 62243		tissues only; Frozen Tissues					embryo	
UAM 64446	Zapus hudsonius		United States, Alaska, Tyonek Quad, Mount Spurr	61.2272 / -152.0561	17 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female; no plsc	
AF# 57575		skull; Frozen Tissues					200-123-30-15 mm 14.0	
UAM 64447	Zapus hudsonius		United States, Alaska, Tyonek Quad, Mount Spurr	61.2272 / -152.0561	17 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female; 5 plsc (3L, 2R)	
AF# 57574		skull; Frozen Tissues					198-116-29-10 mm 16.6	
UAM 64448	Zapus hudsonius		United States, Alaska, Tyonek Quad, Mount Spurr	61.2272 / -152.0561	17 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	male; T=5x3	
AF# 57579		skull; Frozen Tissues					201-123-30-14 mm 16.3	
UAM 64449	Sorex monticolus		United States, Alaska, Tyonek Quad, Mount Spurr	61.2272 / -152.0561	17 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	male; T=5x4	
AF# 57580		skull; Frozen Tissues						
UAM 64450	Clethrionomys rutilus		United States, Alaska, Tyonek Quad, Tyonek Lodge	61.0552 / -151.2177	13 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female; 5 plsc (3L, 2R)	
AF# 57549		skull; Frozen Tissues					132-35-18-10 mm 29.57	
UAM 64451	Dicrostonyx groenlandicus		United States, Alaska, Iliamna Quad, 2 miles N of Kirschner Lake	59.4494 / -153.9436	May 2001-July 2	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown	
AF# 57431		skull						

UAM Catalog Number		Scientific Name	Locality		Collector(s)		Sex and Repro
AF Number	Field Number		Latitude/Longitude	Collection Date			Measurements
Parts; Tissues							Age
UAM 64452	Spermophilus parryi		United States, Alaska, Iliamna Quad, 2 miles N of Kirschner Lake	09 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female	
AF# 57432			59.4494 / -153.9436				232-65-50-12 mm 145 g juvenile
skuli; Frozen Tissues							
UAM 64453	Dicrostonyx groenlandicus		United States, Alaska, Iliamna Quad, 2 miles N of Kirschner Lake	09 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female; no plsc	
AF# 57433			59.4494 / -153.9436				123-10-18-x mm 53.4 g
skuli; Frozen Tissues							
UAM 64454	Dicrostonyx groenlandicus		United States, Alaska, Iliamna Quad, 2 miles N of Kirschner Lake	09 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	male; T=4x7	
AF# 57434			59.4494 / -153.9436				
skuli; Frozen Tissues							
UAM 64455	Dicrostonyx groenlandicus		United States, Alaska, Iliamna Quad, 2 miles N of Kirschner Lake	09 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	male; T=4x5	
AF# 57435			59.4494 / -153.9436				116-7-17-x mm 33 g
skuli; Frozen Tissues							
UAM 64456	Clethrionomys rutilus		United States, Alaska, Chignik Quad, Reindeer Creek	06 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	male; T=8.5x6	
AF# 57410			56.9933 / -158.6441				119-28-18-12 mm 19.4
skuli; Frozen Tissues							
UAM 64457	Sorex cinereus		United States, Alaska, Chignik Quad, Reindeer Creek	06 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown	
AF# 57411			56.9933 / -158.6441				98-38-10-x mm 4.7 g
whole animal; Frozen Tissues							
UAM 64458	Sorex cinereus		United States, Alaska, Chignik Quad, Reindeer Creek	06 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown	
AF# 57412			56.9933 / -158.6441				94-38-11-x mm 5 g
whole animal; Frozen Tissues							
UAM 64459	Sorex cinereus		United States, Alaska, Chignik Quad, Reindeer Creek	06 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown	
AF# 57413			56.9933 / -158.6441				94-37-11-x mm 3.5 g
whole animal; Frozen Tissues							
UAM 64460	Clethrionomys rutilus		United States, Alaska, Chignik Quad, Reindeer Creek	06 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	male; T=3x2	
AF# 57414			56.9933 / -158.6441				113-25-15-10 mm 15.7
skuli; Frozen Tissues							
UAM 64461	Clethrionomys rutilus		United States, Alaska, Chignik Quad, Reindeer Creek	06 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female; vagina imperforate	
AF# 57415			56.9933 / -158.6441				110-28-18-9 mm 15.4 g
skuli; Frozen Tissues							

UAM Catalog Number		Scientific Name	Locality		Collector(s)		Sex and Repro
AF Number	Field Number		Latitude/Longitude	Collection Date			Measurements
Parts: Tissues							Age
UAM 64462	Clethrionomys rutilus		United States, Alaska, Chignik Quad, Reindeer Creek	06 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		female; 8 plsc (3L, 5R)
AF# 57416	skull; Frozen Tissues		56.9933 / -158.6441				130-30-28.5-10 mm 26.
UAM 64463	Clethrionomys rutilus		United States, Alaska, Chignik Quad, Reindeer Creek	06 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		female; enlarged uterus with possibly implanted embryos, no plsc
AF# 57417	skull; Frozen Tissues		56.9933 / -158.6441				124-30-16-12 mm 16.7 adult
UAM 64464	Clethrionomys rutilus		United States, Alaska, Chignik Quad, Reindeer Creek	06 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		male; T=7x9
AF# 57418	skull; Frozen Tissues		56.9933 / -158.6441				122-28-14-11 mm 18.3
UAM 64465	Clethrionomys rutilus		United States, Alaska, Chignik Quad, Reindeer Creek	06 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		male; T=10x6
AF# 57419	skull; Frozen Tissues		56.9933 / -158.6441				122-26-18-11 mm 19.8
UAM 64466	Clethrionomys rutilus		United States, Alaska, Chignik Quad, Reindeer Creek	06 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		male; T=8x6
AF# 57420	skull; Frozen Tissues		56.9933 / -158.6441				118-24-18-11 mm 15.7
UAM 64467	Clethrionomys rutilus		United States, Alaska, Chignik Quad, Reindeer Creek	06 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		female; no plsc
AF# 57421	skull; Frozen Tissues		56.9933 / -158.6441				120-26-15-12 mm 16.9 adult
UAM 64468	Clethrionomys rutilus		United States, Alaska, Chignik Quad, Reindeer Creek	06 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		male; T=8x5
AF# 57422	skull; Frozen Tissues		56.9933 / -158.6441				120-27-17-9 mm 18 g
UAM 64469	Clethrionomys rutilus		United States, Alaska, Chignik Quad, Reindeer Creek	06 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		male; T=10x7
AF# 57423	skull; Frozen Tissues		56.9933 / -158.6441				122-25-14-12 mm 23.6
UAM 64470	Clethrionomys rutilus		United States, Alaska, Chignik Quad, Reindeer Creek	06 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		female; no plsc
AF# 57424	skull; Frozen Tissues		56.9933 / -158.6441				126-24-17-12 mm 19.5 adult
UAM 64471	Clethrionomys rutilus		United States, Alaska, Chignik Quad, Reindeer Creek	06 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		male; T=6x4
AF# 57425	skull; Frozen Tissues		56.9933 / -158.6441				115-25-18-12 mm 16.8 adult

UAM Catalog Number	Scientific Name	Locality	Collector(s)	Sex and Repro Measurements	Age
AF Number	Field Number	Latitude/Longitude	Collection Date		
Parts; Tissues					
UAM 64472	Clethrionomys rutilus	United States, Alaska, Chignik Quad, Reindeer Creek	Collector: Dusty L. McDonald, Kristian R. Larson	male; T=15x9	
AF# 57426		56.9933 / -158.6441	06 Jul 2002	143-34-18-11 mm	32.9
skull; Frozen Tissues					
UAM 64473	Spermophilus parryi	United States, Alaska, Cold Bay Quad, 119 km 284 degrees from Bear Lake	Collector: Dusty L. McDonald, Kristian R. Larson	male	
AF# 57400		55.7061 / -162.0663	05 Jul 2002	12.2-3-2.2-4 in	300 g juvenile
skull; Frozen Tissues					
UAM 64474	Spermophilus parryi	United States, Alaska, Cold Bay Quad, 119 km 284 degrees from Bear Lake	Collector: Dusty L. McDonald, Kristian R. Larson	female	
AF# 57401		55.7061 / -162.0663	05 Jul 2002	12-3-2.2-4 in	350 g juvenile
skull; Frozen Tissues					
UAM 64475	Sorex cinereus	United States, Alaska, Cold Bay Quad, 119 km 284 degrees from Bear Lake	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown	
AF# 57406		55.7061 / -162.0663	05 Jul 2002	114-49-13-x mm	8.5 g
whole animal; Frozen Tissues					
UAM 64476	Lemmus trimucronatus	United States, Alaska, Cold Bay Quad, 119 km 284 degrees from Bear Lake	Collector: Dusty L. McDonald, Kristian R. Larson	male; T=10x7.5	
AF# 57407		55.7061 / -162.0663	05 Jul 2002	125-14-17-11 mm	44.6
carcass, skin, skull; Frozen Tissues					
UAM 64477	Dicrostonyx groenlandicus	United States, Alaska, Cold Bay Quad, 119 km 284 degrees from Bear Lake	Collector: Dusty L. McDonald, Kristian R. Larson	male; T=7x5	
AF# 57408		55.7061 / -162.0663	05 Jul 2002	127-10-17-7 mm	54.1 g
carcass, skin, skull; Frozen Tissues					
UAM 64478	Microtus oeconomus	United States, Alaska, Skagway Quad, west end of Takhin Ridge	Collector: Robert N. Allen, Kristian R. Larson	male; T=5x7	
AF# 63725		59.2861 / -136.1084	27 Jul 2002	154-33-21-13 mm	34.88
skull; Frozen Tissues					
UAM 64479	Microtus longicaudus	United States, Alaska, Skagway Quad, west end of Takhin Ridge	Collector: Robert N. Allen, Kristian R. Larson	female; 2 plsc (2L, OR)	
AF# 63726		59.2861 / -136.1084	27 Jul 2002	168-61-20-15 mm	28.81
skull; Frozen Tissues					
UAM 64480	Microtus longicaudus	United States, Alaska, Skagway Quad, west end of Takhin Ridge	Collector: Robert N. Allen, Kristian R. Larson	male; T=12x7	
AF# 63727		59.2861 / -136.1084	27 Jul 2002	175-65-21-14 mm	33.15
skull; Frozen Tissues					
UAM 64481	Microtus longicaudus	United States, Alaska, Skagway Quad, west end of Takhin Ridge	Collector: Robert N. Allen, Kristian R. Larson	male; T=8x6	
AF# 63728		59.2861 / -136.1084	27 Jul 2002	153-54-19-11 mm	27.04
skull; Frozen Tissues					

UAM Catalog Number		Scientific Name	Locality		Collector(s)		Sex and Repro
AF Number	Field Number		Latitude/Longitude	Collection Date			Measurements
Parts: Tissues							Age
UAM 64482	Microtus longicaudus		United States, Alaska, Skagway Quad, west end of Takhin Ridge		Collector: Robert N. Allen, Kristian R. Larson		female; 3 embryos (2L, 1R); CR=11
AF# 63729	skull; Frozen Tissues		59.2861 / -136.1084	27 Jul 2002			144-43-19-15 mm 27.39
UAM 64483	Microtus longicaudus		United States, Alaska, Skagway Quad, west end of Takhin Ridge		Collector: Robert N. Allen, Kristian R. Larson		female
AF# 63730	skull; Frozen Tissues		59.2861 / -136.1084	27 Jul 2002			147-54-21-13 mm 23.41 juvenile
UAM 64484	Microtus longicaudus		United States, Alaska, Skagway Quad, west end of Takhin Ridge		Collector: Robert N. Allen, Kristian R. Larson		male; T=3x1
AF# 63731	skull; Frozen Tissues		59.2861 / -136.1084	27 Jul 2002			143-41-19-11 mm 18.23
UAM 64485	Microtus longicaudus		United States, Alaska, Skagway Quad, west end of Takhin Ridge		Collector: Robert N. Allen, Kristian R. Larson		male; T=12x6
AF# 63732	skull; Frozen Tissues		59.2861 / -136.1084	27 Jul 2002			152-55-20-12 mm 27 g
UAM 64486	Microtus longicaudus		United States, Alaska, Skagway Quad, west end of Takhin Ridge		Collector: Robert N. Allen, Kristian R. Larson		female; 5 embryos (3L, 2R); CR=10
AF# 63733	skull; Frozen Tissues		59.2861 / -136.1084	27 Jul 2002			162-54-20-16 mm 31.51
UAM 64487	Microtus longicaudus		United States, Alaska, Skagway Quad, west end of Takhin Ridge		Collector: Robert N. Allen, Kristian R. Larson		male; T=11x8
AF# 63734	skull; Frozen Tissues		59.2861 / -136.1084	27 Jul 2002			184-69-20-14 mm 38.23
UAM 64488	Peromyscus keeni		United States, Alaska, Skagway Quad, west end of Takhin Ridge		Collector: Robert N. Allen, Kristian R. Larson		male; T=6x3
AF# 63735	skull; Frozen Tissues		59.2861 / -136.1084	27 Jul 2002			185-95-22-19 mm 24.42
UAM 64489	Microtus longicaudus		United States, Alaska, Skagway Quad, west end of Takhin Ridge		Collector: Robert N. Allen, Kristian R. Larson		male; T=4x3
AF# 63744	skull; Frozen Tissues		59.2861 / -136.1084	28 Jul 2002			
UAM 64490	Microtus oeconomus		United States, Alaska, Skagway Quad, west end of Takhin Ridge		Collector: Robert N. Allen, Kristian R. Larson		male; T=6x4
AF# 63745	skull; Frozen Tissues		59.2861 / -136.1084	28 Jul 2002			141-37-18-11 mm 32.15
UAM 64491	Microtus longicaudus		United States, Alaska, Skagway Quad, west end of Takhin Ridge		Collector: Robert N. Allen, Kristian R. Larson		male; T=14x8
AF# 63746	skull; Frozen Tissues		59.2861 / -136.1084	28 Jul 2002			178-65-22-16 mm 41.57

UAM Catalog Number	Scientific Name	Locality	Collector(s)	Sex and Repro Measurements	Age
AF Number	Field Number	Latitude/Longitude	Collection Date		
Parts: Tissues					
UAM 64492 AF# 63747	Zapus hudsonius postcranial skeleton, skull; Frozen Tissues	United States, Alaska, Skagway Quad, west end of Takhin Ridge 59.2861 / -136.1084	28 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson	female; enlarged uterus 162-82-30-12 mm 17.29
UAM 64493 AF# 63748	Microtus longicaudus postcranial skeleton, skull; Frozen Tissues	United States, Alaska, Skagway Quad, west end of Takhin Ridge 59.2861 / -136.1084	28 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson	female; vagina perforate; no plsc 154-52-21-14 mm 23.8
UAM 64494 AF# 62217	Microtus longicaudus tissues only; Frozen Tissues	United States, Alaska, Skagway Quad, west end of Takhin Ridge 59.2861 / -136.1084	27 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson	sex unknown embryo
UAM 64495 AF# 62218	Microtus longicaudus tissues only; Frozen Tissues	United States, Alaska, Skagway Quad, west end of Takhin Ridge 59.2861 / -136.1084	27 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson	sex unknown embryo
UAM 64496 AF# 57489	Clethrionomys rutilus skull; Frozen Tissues	United States, Alaska, Iliamna Quad, 2 miles N of Kirschner Lake 59.4494 / -153.9436	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	male; T=10x6 124-26-17-14 mm 19 g
UAM 64497 AF# 57490	Clethrionomys rutilus skull; Frozen Tissues	United States, Alaska, Iliamna Quad, 2 miles N of Kirschner Lake 59.4494 / -153.9436	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female 119-29-18-11 mm 15 g juvenile
UAM 64498 AF# 57491	Spermophilus parryi skull; Frozen Tissues	United States, Alaska, Iliamna Quad, 2 miles N of Kirschner Lake 59.4494 / -153.9436	10 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female 224-49-46-9 mm 135 g juvenile
UAM 64499 AF# 57430	Dicrostonyx groenlandicus skull	United States, Alaska, Iliamna Quad, 4 miles W of The Cone 59.5236 / -153.9280	winter 2001-Jul	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown
UAM 64500 AF# 57428	Spermophilus parryi skull; Frozen Tissues	United States, Alaska, Iliamna Quad, 4 miles W of The Cone 59.5236 / -153.9280	08 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female; 6 plsc (2L, 2R); not lactating 12.8-4-2.1-8 in .6 kg
UAM 64501 AF# 57429	Spermophilus parryi skull; Frozen Tissues	United States, Alaska, Iliamna Quad, 4 miles W of The Cone 59.5236 / -153.9280	08 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female 9.2-2.2-1.8-4 in 145 g juvenile

UAM Catalog Number		Scientific Name	Locality		Collector(s)		Sex and Repro
AF Number	Field Number		Latitude/Longitude	Collection Date			Measurements
Parts; Tissues							Age
UAM 64502	Microtus oeconomus		United States, Alaska, Iliamna Quad, 4	09 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female; 5 embryos (2L, 3R); CR=8	
AF# 57436	skull; Frozen Tissues		59.5236 / -153.9280			150-27-21-11 mm	36.8
UAM 64503	Microtus oeconomus		United States, Alaska, Iliamna Quad, 4	09 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	male	
AF# 57437	carcass, skin, skull; Frozen Tissues		59.5236 / -153.9280			162-26-20-14 mm	48.1
UAM 64504	Microtus oeconomus		United States, Alaska, Iliamna Quad, 4	09 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female; 7 embryos (1L, 6R)	
AF# 57438	skull; Frozen Tissues		59.5236 / -153.9280				
UAM 64505	Microtus oeconomus		United States, Alaska, Iliamna Quad, 4	09 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	male; T=5x4	
AF# 57439	tissues only; Frozen Tissues		59.5236 / -153.9280				
UAM 64506	Microtus oeconomus		United States, Alaska, Iliamna Quad, 4	09 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	male; T=12x9	
AF# 57440	skull; Frozen Tissues		59.5236 / -153.9280			166-29-19-12 mm	49 g
UAM 64507	Microtus oeconomus		United States, Alaska, Iliamna Quad, 4	09 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown	embryo
AF# 57442	tissues only; Frozen Tissues		59.5236 / -153.9280				
UAM 64508	Microtus oeconomus		United States, Alaska, Iliamna Quad, 4	09 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown	embryo
AF# 57443	tissues only; Frozen Tissues		59.5236 / -153.9280				
UAM 64509	Microtus oeconomus		United States, Alaska, Iliamna Quad, 4	09 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown	embryo
AF# 57444	tissues only; Frozen Tissues		59.5236 / -153.9280				
UAM 64510	Microtus oeconomus		United States, Alaska, Iliamna Quad, 4	09 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown	embryo
AF# 57445	tissues only; Frozen Tissues		59.5236 / -153.9280				
UAM 64511	Microtus oeconomus		United States, Alaska, Iliamna Quad, 4	09 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown	embryo
AF# 57446	tissues only; Frozen Tissues		59.5236 / -153.9280				

UAM Catalog Number		Scientific Name		Locality		Collector(s)		Sex and Repro Measurements	
AF Number	Field Number			Latitude/Longitude	Collection Date				Age
Parts; Tissues									
UAM 64512	Microtus oeconomus			United States, Alaska, Iliamna Quad, 4 miles W of The Cone	09 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown		embryo
AF# 57447	tissues only; Frozen Tissues			59.5236 / -153.9280					
UAM 64513	Microtus oeconomus			United States, Alaska, Iliamna Quad, 4 miles W of The Cone	09 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown		embryo
AF# 57448	tissues only; Frozen Tissues			59.5236 / -153.9280					
UAM 64514	Microtus oeconomus			United States, Alaska, Iliamna Quad, 4 miles W of The Cone	09 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown		embryo
AF# 57449	tissues only; Frozen Tissues			59.5236 / -153.9280					
UAM 64515	Microtus oeconomus			United States, Alaska, Iliamna Quad, 4 miles W of The Cone	09 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown		embryo
AF# 57450	tissues only; Frozen Tissues			59.5236 / -153.9280					
UAM 64516	Microtus oeconomus			United States, Alaska, Iliamna Quad, 4 miles W of The Cone	09 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown		embryo
AF# 57451	tissues only; Frozen Tissues			59.5236 / -153.9280					
UAM 64517	Microtus oeconomus			United States, Alaska, Iliamna Quad, 4 miles W of The Cone	09 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown		embryo
AF# 57452	tissues only; Frozen Tissues			59.5236 / -153.9280					
UAM 64518	Microtus oeconomus			United States, Alaska, Iliamna Quad, 4 miles W of The Cone	09 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown		embryo
AF# 57453	tissues only; Frozen Tissues			59.5236 / -153.9280					
UAM 64519	Microtus oeconomus			United States, Alaska, Skagway Quad, Klukwah Mountain	27 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson	male; T=6x4		
AF# 63715	skull; Frozen Tissues			59.5926 / -135.8921					
UAM 64520	Microtus oeconomus			United States, Alaska, Skagway Quad, Klukwah Mountain	28 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson	female; 4 embryos (2L, 2R); CR=12		
AF# 63765	skull; Frozen Tissues			59.5926 / -135.8921			139-31-19-13 mm		33.76
UAM 64521	Microtus oeconomus			United States, Alaska, Skagway Quad, Klukwah Mountain	28 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson	male; T=8x5		
AF# 63766	skull; Frozen Tissues			59.5926 / -135.8921					

UAM Catalog Number		Scientific Name		Locality		Collector(s)		Sex and Repro Measurements	
AF Number	Field Number			Latitude/Longitude	Collection Date				Age
Parts: Tissues									
UAM 64522	Microtus oeconomus			United States, Alaska, Skagway Quad, Klukwah Mountain		Collector: Robert N. Allen, Kristian R. Larson		male; T=8x6	
AF# 63767				59.5926 / -135.8921	28 Jul 2002			143-31-19-15 mm	31.81
skull; Frozen Tissues									
UAM 64523	Microtus oeconomus			United States, Alaska, Skagway Quad, Klukwah Mountain		Collector: Robert N. Allen, Kristian R. Larson		male; T=7x5	
AF# 63768				59.5926 / -135.8921	28 Jul 2002			150-36-20-15 mm	38.62
skull; Frozen Tissues									
UAM 64524	Microtus oeconomus			United States, Alaska, Skagway Quad, Klukwah Mountain		Collector: Robert N. Allen, Kristian R. Larson		male; T=6x4	
AF# 63769				59.5926 / -135.8921	28 Jul 2002			145-32-20-13 mm	25.84
skull; Frozen Tissues									
UAM 64525	Microtus oeconomus			United States, Alaska, Skagway Quad, Klukwah Mountain		Collector: Robert N. Allen, Kristian R. Larson		male; T=6x3	
AF# 63770				59.5926 / -135.8921	28 Jul 2002			114-26-19-12 mm	20.41
skull; Frozen Tissues									
UAM 64526	Microtus oeconomus			United States, Alaska, Skagway Quad, Klukwah Mountain		Collector: Robert N. Allen, Kristian R. Larson		female; 11plsc (5L, 6R)	
AF# 63771				59.5926 / -135.8921	28 Jul 2002			130-30-18-11 mm	30 g
skull; Frozen Tissues									
UAM 64527	Microtus oeconomus			United States, Alaska, Skagway Quad, Klukwah Mountain		Collector: Robert N. Allen, Kristian R. Larson		female	
AF# 63774				59.5926 / -135.8921	28 Jul 2002			84-20-16-10 mm	10.39 juvenile
skull; Frozen Tissues									
UAM 64528	Microtus oeconomus			United States, Alaska, Skagway Quad, Klukwah Mountain		Collector: Robert N. Allen, Kristian R. Larson		female; 11 plsc (6L, 5R)	
AF# 63776				59.5926 / -135.8921	28 Jul 2002			155-35-19-13 mm	33.28
skull; Frozen Tissues									
UAM 64529	Microtus oeconomus			United States, Alaska, Skagway Quad, Klukwah Mountain		Collector: Robert N. Allen, Kristian R. Larson		female; 5 embryos (3L, 2R); CR=9	
AF# 63778				59.5926 / -135.8921	28 Jul 2002			139-29-18-14 mm	34.81
skull; Frozen Tissues									
UAM 64530	Microtus oeconomus			United States, Alaska, Skagway Quad, Klukwah Mountain		Collector: Robert N. Allen, Kristian R. Larson		female; 4 embryos (2L, 2R); CR=21	
AF# 63780				59.5926 / -135.8921	28 Jul 2002			121-22-18-11 mm	29.86
skull; Frozen Tissues									
UAM 64531	Microtus oeconomus			United States, Alaska, Skagway Quad, Klukwah Mountain		Collector: Robert N. Allen, Kristian R. Larson		male; T=7x5	
AF# 63781				59.5926 / -135.8921	28 Jul 2002			156-29-18-12 mm	44.71
skull; Frozen Tissues									

UAM Catalog Number		Scientific Name	Locality		Collector(s)		Sex and Repro
AF Number	Field Number		Latitude/Longitude	Collection Date			Measurements
Parts; Tissues							Age
UAM 64532	Peromyscus keeni		United States, Alaska, Skagway Quad, Klukwah Mountain	28 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson	female	
AF# 63783			59.5926 / -135.8921				141-71-20-15 mm 9.81 juvenile
skull; Frozen Tissues							
UAM 64533	Peromyscus keeni		United States, Alaska, Skagway Quad, Klukwah Mountain	28 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson	female; 10 pls 4L, 6R	
AF# 63784			59.5926 / -135.8921				186-93-21-19 mm 22.16
skull; Frozen Tissues							
UAM 64534	Microtus oeconomus		United States, Alaska, Skagway Quad, Klukwah Mountain	29 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson	male; T=4x3	
AF# 63753			59.5926 / -135.8921				120-27-19-10 mm 16.4
skull; Frozen Tissues							
UAM 64535	Microtus oeconomus		United States, Alaska, Skagway Quad, Klukwah Mountain	29 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson	female; 6 embryos (2L, 4R); CR=6	
AF# 63754			59.5926 / -135.8921				147-29-19-13 mm 33.32
skull; Frozen Tissues							
UAM 64536	Microtus oeconomus		United States, Alaska, Skagway Quad, Klukwah Mountain	29 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson	male; T=4x2.5	
AF# 63755			59.5926 / -135.8921				95-18-17-10 mm 11.04
skull; Frozen Tissues							
UAM 64537	Microtus oeconomus		United States, Alaska, Skagway Quad, Klukwah Mountain	29 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson	male; T=3x2	
AF# 63756			59.5926 / -135.8921				88-18-16-9 mm 8.59 g
skull; Frozen Tissues							
UAM 64538	Peromyscus keeni		United States, Alaska, Skagway Quad, Klukwah Mountain	29 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson	male; T=7x5	
AF# 63757			59.5926 / -135.8921				195-107-22-18 mm 24.6
skull; Frozen Tissues							
UAM 64539	Peromyscus keeni		United States, Alaska, Skagway Quad, Klukwah Mountain	29 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson	female	
AF# 63758			59.5926 / -135.8921				149-78-19-17 mm 12.05 juvenile
skull; Frozen Tissues							
UAM 64540	Sorex monticolus		United States, Alaska, Skagway Quad, Klukwah Mountain	29 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson	male	
AF# 63759			59.5926 / -135.8921				117-50-18-x mm 5.49 g
skull; Frozen Tissues							
UAM 64541	Sorex monticolus		United States, Alaska, Skagway Quad, Klukwah Mountain	29 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson	female; 8 embryos (4L, 4R); CR=3	
AF# 63760			59.5926 / -135.8921				119-44-13-x mm 9.51 g over-winter
skull; Frozen Tissues							

UAM Catalog Number		Scientific Name	Locality		Collector(s)		Sex and Repro
AF Number	Field Number		Latitude/Longitude	Collection Date			Measurements
Parts: Tissues							Age
UAM 64542	Microtus oeconomus		United States, Alaska, Skagway Quad, Klukwah Mountain		Collector: Robert N. Allen, Kristian R. Larson		male; T=5x3
AF# 63761	skull; Frozen Tissues		59.5926 / -135.8921	29 Jul 2002			106-22-17-9 mm 15.63
UAM 64543	Microtus oeconomus		United States, Alaska, Skagway Quad, Klukwah Mountain		Collector: Robert N. Allen, Kristian R. Larson		female; 4 plsc (2L, 2R)
AF# 63762	skull; Frozen Tissues		59.5926 / -135.8921	29 Jul 2002			147-33-18-13 mm 28.02
UAM 64544	Microtus oeconomus		United States, Alaska, Skagway Quad, Klukwah Mountain		Collector: Robert N. Allen, Kristian R. Larson		male; T=8x5
AF# 63763	skull; Frozen Tissues		59.5926 / -135.8921	29 Jul 2002			150-31-19-14 mm 30.85
UAM 64545	Microtus oeconomus		United States, Alaska, Skagway Quad, Klukwah Mountain		Collector: Robert N. Allen, Kristian R. Larson		female; 5 embryos (3L, 2R); CR=10
AF# 63764	skull; Frozen Tissues		59.5926 / -135.8921	29 Jul 2002			144-30-18-14 mm 33.28
UAM 64546	Microtus oeconomus		United States, Alaska, Skagway Quad, Klukwah Mountain		Collector: Robert N. Allen, Kristian R. Larson		male; T=6x3
AF# 63772	skull; Frozen Tissues		59.5926 / -135.8921	28 Jul 2002			151-33-15-15 mm 40.09
UAM 64547	Microtus oeconomus		United States, Alaska, Skagway Quad, Klukwah Mountain		Collector: Robert N. Allen, Kristian R. Larson		female; no plsc
AF# 63773	skull; Frozen Tissues		59.5926 / -135.8921	28 Jul 2002			115-24-14-11 mm 14.68
UAM 64548	Microtus oeconomus		United States, Alaska, Skagway Quad, Klukwah Mountain		Collector: Robert N. Allen, Kristian R. Larson		male; T=5x4
AF# 63775	skull; Frozen Tissues		59.5926 / -135.8921	28 Jul 2002			161-38-13-11 mm 40.75
UAM 64549	Microtus oeconomus		United States, Alaska, Skagway Quad, Klukwah Mountain		Collector: Robert N. Allen, Kristian R. Larson		female; 4 plsc (2L, 2R)
AF# 63777	skull; Frozen Tissues		59.5926 / -135.8921	28 Jul 2002			142-23-18-15 mm 36.56
UAM 64550	Microtus oeconomus		United States, Alaska, Skagway Quad, Klukwah Mountain		Collector: Robert N. Allen, Kristian R. Larson		female; 6 embryos (3L, 3R)
AF# 63779	skull; Frozen Tissues		59.5926 / -135.8921	28 Jul 2002			161-37-17-12 mm 39.99
UAM 64551	Sorex monticolus		United States, Alaska, Skagway Quad, Klukwah Mountain		Collector: Robert N. Allen, Kristian R. Larson		male; T=5x3
AF# 63782	skull; Frozen Tissues		59.5926 / -135.8921	28 Jul 2002			106-44-13-x mm 7.86 g

UAM Catalog Number		Scientific Name		Locality		Collector(s)	Sex and Repro Measurements	
AF Number	Field Number	Parts; Tissues		Latitude/Longitude	Collection Date		Age	
UAM 64552	Sorex monticolus			United States, Alaska, Skagway Quad, Klukwah Mountain		Collector: Robert N. Allen, Kristian R. Larson	sex unknown	embryo
AF# 62219		tissues only; Frozen Tissues		59.5926 / -135.8921	29 Jul 2002			
UAM 64553	Microtus oeconomus			United States, Alaska, Skagway Quad, Klukwah Mountain		Collector: Robert N. Allen, Kristian R. Larson	sex unknown	embryo
AF# 62220		tissues only; Frozen Tissues		59.5926 / -135.8921	29 Jul 2002			
UAM 64554	Microtus oeconomus			United States, Alaska, Skagway Quad, Klukwah Mountain		Collector: Robert N. Allen, Kristian R. Larson	sex unknown	embryo
AF# 62221		tissues only; Frozen Tissues		59.5926 / -135.8921	29 Jul 2002			
UAM 64555	Microtus oeconomus			United States, Alaska, Skagway Quad, Klukwah Mountain		Collector: Robert N. Allen, Kristian R. Larson	sex unknown	embryo
AF# 62222		tissues only; Frozen Tissues		59.5926 / -135.8921	28 Jul 2002			
UAM 64556	Microtus oeconomus			United States, Alaska, Skagway Quad, Klukwah Mountain		Collector: Robert N. Allen, Kristian R. Larson	sex unknown	embryo
AF# 62223		tissues only; Frozen Tissues		59.5926 / -135.8921	28 Jul 2002			
UAM 64557	Microtus oeconomus			United States, Alaska, Skagway Quad, Klukwah Mountain		Collector: Robert N. Allen, Kristian R. Larson	sex unknown	embryo
AF# 62224		tissues only; Frozen Tissues		59.5926 / -135.8921	28 Jul 2002			
UAM 64558	Microtus oeconomus			United States, Alaska, Skagway Quad, Klukwah Mountain		Collector: Robert N. Allen, Kristian R. Larson	sex unknown	embryo
AF# 62225		tissues only; Frozen Tissues		59.5926 / -135.8921	28 Jul 2002			
UAM 64559	Microtus oeconomus			United States, Alaska, Skagway Quad, Klukwah Mountain		Collector: Robert N. Allen, Kristian R. Larson	sex unknown	embryo
AF# 62226		tissues only; Frozen Tissues		59.5926 / -135.8921	28 Jul 2002			
UAM 64560	Microtus oeconomus			United States, Alaska, Skagway Quad, Klukwah Mountain		Collector: Robert N. Allen, Kristian R. Larson	sex unknown	embryo
AF# 62227		tissues only; Frozen Tissues		59.5926 / -135.8921	28 Jul 2002			
UAM 64561	Microtus oeconomus			United States, Alaska, Skagway Quad, Klukwah Mountain		Collector: Robert N. Allen, Kristian R. Larson	sex unknown	embryo
AF# 62228		tissues only; Frozen Tissues		59.5926 / -135.8921	28 Jul 2002			

UAM Catalog Number		Scientific Name	Locality		Collector(s)	Sex and Repro Measurements	
AF Number	Field Number		Latitude/Longitude	Collection Date		Age	
Parts: Tissues							
UAM 64562	Microtus oeconomus		United States, Alaska, Skagway Quad, Mount Ashmun		Collector: Robert N. Allen, Kristian R. Larson	female; 6 plsc (2L, 4R)	
AF# 63706	skull; Frozen Tissues		59.6374 / -136.1291	27 Jul 2002		126-28-18-13 mm 25.29	
UAM 64563	Microtus oeconomus		United States, Alaska, Skagway Quad, Mount Ashmun		Collector: Robert N. Allen, Kristian R. Larson	female; 5 embryos (2L, 3R); CR=14	
AF# 63707	skull; Frozen Tissues		59.6374 / -136.1291	27 Jul 2002		140-32-20-14 mm 33.76	
UAM 64564	Microtus oeconomus		United States, Alaska, Skagway Quad, Mount Ashmun		Collector: Robert N. Allen, Kristian R. Larson	female; 5 embryos (2L, 3R); CR=12	
AF# 63708	skull; Frozen Tissues		59.6374 / -136.1291	27 Jul 2002		138-33-19-12 mm 35.36	
UAM 64565	Microtus oeconomus		United States, Alaska, Skagway Quad, Mount Ashmun		Collector: Robert N. Allen, Kristian R. Larson	female; 5 embryos (2L, 3R); CR=4	
AF# 63709	skull; Frozen Tissues		59.6374 / -136.1291	27 Jul 2002		151-34-18-12 mm 39.7	
UAM 64566	Lemmus trimucronatus		United States, Alaska, Skagway Quad, Mount Ashmun		Collector: Robert N. Allen, Kristian R. Larson	female; 5 embryos (2L, 3R); CR=7	
AF# 63710	carcass, skin, skull; Frozen Tissues		59.6374 / -136.1291	27 Jul 2002		106-13-18-10 mm 26.98	
UAM 64567	Microtus oeconomus		United States, Alaska, Skagway Quad, Mount Ashmun		Collector: Robert N. Allen, Kristian R. Larson	female; 4 embryos (2L, 2R); CR=15	
AF# 63736	skull; Frozen Tissues		59.6374 / -136.1291	28 Jul 2002		134-33-19-15 mm 37.36	
UAM 64568	Microtus oeconomus		United States, Alaska, Skagway Quad, Mount Ashmun		Collector: Robert N. Allen, Kristian R. Larson	female; 5 plsc (2L, 3R)	
AF# 63737	skull; Frozen Tissues		59.6374 / -136.1291	28 Jul 2002		126-33-19-15 mm 25.79	
UAM 64569	Microtus oeconomus		United States, Alaska, Skagway Quad, Mount Ashmun		Collector: Robert N. Allen, Kristian R. Larson	male; T=7x5	
AF# 63738	skull; Frozen Tissues		59.6374 / -136.1291	28 Jul 2002		135-33-20-13 mm 37.06	
UAM 64570	Microtus oeconomus		United States, Alaska, Skagway Quad, Mount Ashmun		Collector: Robert N. Allen, Kristian R. Larson	male; T=5x3	
AF# 63739	skull; Frozen Tissues		59.6374 / -136.1291	28 Jul 2002		125-27-19-14 mm 19.2	
UAM 64571	Microtus oeconomus		United States, Alaska, Skagway Quad, Mount Ashmun		Collector: Robert N. Allen, Kristian R. Larson	female	
AF# 63740	skull; Frozen Tissues		59.6374 / -136.1291	28 Jul 2002		98-22-17-10 mm 11.55 juvenile	

UAM Catalog Number		Scientific Name	Locality		Collector(s)	Sex and Repro	
AF Number	Field Number		Latitude/Longitude	Collection Date		Measurements	Age
Parts; Tissues							
UAM 64572	Spermophilus parryi		United States, Alaska, Skagway Quad, Mount Ashmun	28 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson	female; 3 plsc (2L, 1R)	
AF# 63741	skin, skull; Frozen Tissues		59.6374 / -136.1291			319-75-54-16 mm 455 g	
UAM 64573	Microtus oeconomus		United States, Alaska, Skagway Quad, Mount Ashmun	29 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson	female; no plsc	
AF# 63749	skull; Frozen Tissues		59.6374 / -136.1291			169-45-20-17 mm 47.62	
UAM 64574	Microtus oeconomus		United States, Alaska, Skagway Quad, Mount Ashmun	29 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson	male; T=6x5	
AF# 63750	skull; Frozen Tissues		59.6374 / -136.1291			122-30-20-12 mm 28.81	
UAM 64575	Microtus oeconomus		United States, Alaska, Skagway Quad, Mount Ashmun	29 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson	male; T=8x5	
AF# 63751	skull; Frozen Tissues		59.6374 / -136.1291			138-32-19-10 mm 38.89	
UAM 64576	Sorex monticolus		United States, Alaska, Skagway Quad, Mount Ashmun	29 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson	male; T=5x4	
AF# 63752	skull; Frozen Tissues		59.6374 / -136.1291			108-41-14-x mm 8.64 g	
UAM 64577	Microtus oeconomus		United States, Alaska, Skagway Quad, Mount Ashmun	27 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson	sex unknown	embryo
AF# 62234	tissues only; Frozen Tissues		59.6374 / -136.1291				
UAM 64578	Microtus oeconomus		United States, Alaska, Skagway Quad, Mount Ashmun	27 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson	sex unknown	embryo
AF# 62235	tissues only; Frozen Tissues		59.6374 / -136.1291				
UAM 64579	Microtus oeconomus		United States, Alaska, Skagway Quad, Mount Ashmun	27 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson	sex unknown	embryo
AF# 62236	tissues only; Frozen Tissues		59.6374 / -136.1291				
UAM 64580	Microtus oeconomus		United States, Alaska, Skagway Quad, Mount Ashmun	27 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson	sex unknown	embryo
AF# 62237	tissues only; Frozen Tissues		59.6374 / -136.1291				
UAM 64581	Microtus oeconomus		United States, Alaska, Skagway Quad, Mount Ashmun	27 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson	sex unknown	embryo
AF# 62238	tissues only; Frozen Tissues		59.6374 / -136.1291				

UAM Catalog Number AF Number Parts; Tissues	Scientific Name Field Number	Locality		Collector(s)	Sex and Repro Measurements		Age
		Latitude/Longitude	Collection Date				
UAM 64582 AF# 62242 tissues only; Frozen Tissues	Microtus oeconomus	United States, Alaska, Skagway Quad, Mount Ashmun 59.6374 / -136.1291	27 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson	sex unknown		embryo
UAM 64583 AF# 62239 tissues only; Frozen Tissues	Microtus oeconomus	United States, Alaska, Skagway Quad, Mount Ashmun 59.6374 / -136.1291	27 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson	sex unknown		embryo
UAM 64584 AF# 62233 tissues only; Frozen Tissues	Lemmus trimucronatus	United States, Alaska, Skagway Quad, Mount Ashmun 59.6374 / -136.1291	27 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson	sex unknown		embryo
UAM 64585 AF# 62229 tissues only; Frozen Tissues	Microtus oeconomus	United States, Alaska, Skagway Quad, Mount Ashmun 59.6374 / -136.1291	28 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson	sex unknown		embryo
UAM 64586 AF# 62230 tissues only; Frozen Tissues	Microtus oeconomus	United States, Alaska, Skagway Quad, Mount Ashmun 59.6374 / -136.1291	28 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson	sex unknown		embryo
UAM 64587 AF# 62231 tissues only; Frozen Tissues	Microtus oeconomus	United States, Alaska, Skagway Quad, Mount Ashmun 59.6374 / -136.1291	28 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson	sex unknown		embryo
UAM 64588 AF# 62232 tissues only; Frozen Tissues	Microtus oeconomus	United States, Alaska, Skagway Quad, Mount Ashmun 59.6374 / -136.1291	28 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson	sex unknown		embryo
UAM 64589 AF# 57569 skull	Microtus miurus	United States, Alaska, Tyonek Quad, 1 mile S of Max Lake 61.3577 / -152.8691	15 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female; embryos present	125-26-17-11 mm 22.16	
UAM 64590 AF# 57576 skull; Frozen Tissues	Zapus hudsonius	United States, Alaska, Tyonek Quad, Mount Spurr 61.2272 / -152.0561	17 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown	198-112-28-12 mm 16.4	
UAM 64591 AF# 57577 skull; Frozen Tissues	Zapus hudsonius	United States, Alaska, Tyonek Quad, Mount Spurr 61.2272 / -152.0561	17 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown	202-126-31-12 mm 25.4	

UAM Catalog Number		Scientific Name	Locality		Collector(s)		Sex and Repro Measurements	
AF Number	Field Number		Latitude/Longitude	Collection Date				Age
Parts; Tissues								
UAM 64582	Microtus oeconomus		United States, Alaska, Skagway Quad, Mount Ashmun	27 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson		sex unknown	embryo
AF# 62242	tissues only; Frozen Tissues		59.6374 / -136.1291					
UAM 64583	Microtus oeconomus		United States, Alaska, Skagway Quad, Mount Ashmun	27 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson		sex unknown	embryo
AF# 62239	tissues only; Frozen Tissues		59.6374 / -136.1291					
UAM 64584	Lemmus trimucronatus		United States, Alaska, Skagway Quad, Mount Ashmun	27 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson		sex unknown	embryo
AF# 62233	tissues only; Frozen Tissues		59.6374 / -136.1291					
UAM 64585	Microtus oeconomus		United States, Alaska, Skagway Quad, Mount Ashmun	28 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson		sex unknown	embryo
AF# 62229	tissues only; Frozen Tissues		59.6374 / -136.1291					
UAM 64586	Microtus oeconomus		United States, Alaska, Skagway Quad, Mount Ashmun	28 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson		sex unknown	embryo
AF# 62230	tissues only; Frozen Tissues		59.6374 / -136.1291					
UAM 64587	Microtus oeconomus		United States, Alaska, Skagway Quad, Mount Ashmun	28 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson		sex unknown	embryo
AF# 62231	tissues only; Frozen Tissues		59.6374 / -136.1291					
UAM 64588	Microtus oeconomus		United States, Alaska, Skagway Quad, Mount Ashmun	28 Jul 2002	Collector: Robert N. Allen, Kristian R. Larson		sex unknown	embryo
AF# 62232	tissues only; Frozen Tissues		59.6374 / -136.1291					
UAM 64589	Microtus miurus		United States, Alaska, Tyonek Quad, 1 mile S of Max Lake	15 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		female; embryos present	
AF# 57569	skull		61.3577 / -152.8691				125-26-17-11 mm	22.16
UAM 64590	Zapus hudsonius		United States, Alaska, Tyonek Quad, Mount Spurr	17 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		sex unknown	
AF# 57576	skull; Frozen Tissues		61.2272 / -152.0561				198-112-28-12 mm	16.4
UAM 64591	Zapus hudsonius		United States, Alaska, Tyonek Quad, Mount Spurr	17 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson		sex unknown	
AF# 57577	skull; Frozen Tissues		61.2272 / -152.0561				202-126-31-12 mm	25.4

UAM Catalog Number AF Number Parts; Tissues	Scientific Name Field Number	Locality		Collector(s)	Sex and Repro Measurements		Age
		Latitude/Longitude	Collection Date				
UAM 64592 AF# 57578 skull; Frozen Tissues	<i>Zapus hudsonius</i>	United States, Alaska, Tyonek Quad, Mount Spurr 61.2272 / -152.0561	17 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	sex unknown		
UAM 64593 AF# 57521 skull; Frozen Tissues	<i>Clethrionomys rutilus</i>	United States, Alaska, Iliamna Quad, Ursus Cove 59.5236 / -153.7725	11 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female		juvenile
UAM 64594 AF# 57518 skull; Frozen Tissues	<i>Clethrionomys rutilus</i>	United States, Alaska, Iliamna Quad, Ursus Cove 59.5236 / -153.7725	11 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	male; T=6x4		
UAM 78239 AF# 63742 skull; Frozen Tissues	<i>Marmota caligata</i>	United States, Alaska, Skagway Quad, Mount Ashmun 59.6374 / -136.1291	28 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female; no plsc		
UAM 78240 AF# 63743 skull; Frozen Tissues	<i>Marmota caligata</i>	United States, Alaska, Skagway Quad, Mount Ashmun 59.6374 / -136.1291	28 Jul 2002	Collector: Dusty L. McDonald, Kristian R. Larson	female; no plsc		

UAM Catalog Number		Scientific Name	Locality		Collector(s)		Sex and Repro
AF Number	Field Number		Latitude/Longitude	Collection Date			Measurements
Parts; Tissues							Age
UAM 64595	Spermophilus parryi		United States, Alaska, Skagway Quad, Tohitkah Mountain	29 Jun 2002	Collector: Kristian R. Larson, Robert N. Allen		female; 6 plsc (2L, 4R); enlarged mammaries
AF# 64173			59.6044 / -136.044				433-78-55-7 mm 434 g
UAM 64596	Peromyscus keeni		United States, Alaska, Skagway Quad, 24 mile Haines Highway	26 Jun 2002	Collector: Kristian R. Larson, Robert N. Allen		female; 7 embryos (5L, 2); CR=16; enlarged mammaries
AF# 64132			59.4083 / -135.9555				
UAM 64597	Peromyscus keeni		United States, Alaska, Skagway Quad, 24 mile Haines Highway	26 Jun 2002	Collector: Kristian R. Larson, Robert N. Allen		male; T=6x5
AF# 64133			59.4083 / -135.9555				140-69-21-14 mm 10.88
UAM 64598	Peromyscus keeni		United States, Alaska, Skagway Quad, 24 mile Haines Highway	26 Jun 2002	Collector: Kristian R. Larson, Robert N. Allen		male; T=4x2
AF# 64134			59.4083 / -135.9555				154-75-19-12 mm 10.28
UAM 64599	Peromyscus keeni		United States, Alaska, Skagway Quad, 24 mile Haines Highway	26 Jun 2002	Collector: Kristian R. Larson, Robert N. Allen		male; T=8x5
AF# 64135			59.4083 / -135.9555				198-98-22-16 mm 23.77
UAM 64600	Clethrionomys rutilus		United States, Alaska, Skagway Quad, 24 mile Haines Highway	26 Jun 2002	Collector: Kristian R. Larson, Robert N. Allen		male; T=8x6
AF# 64136			59.4083 / -135.9555				
UAM 64601	Clethrionomys rutilus		United States, Alaska, Skagway Quad, 24 mile Haines Highway	26 Jun 2002	Collector: Kristian R. Larson, Robert N. Allen		male; T=8x5
AF# 64137			59.4083 / -135.9555				
UAM 64602	Clethrionomys rutilus		United States, Alaska, Skagway Quad, 24 mile Haines Highway	27 Jun 2002	Collector: Kristian R. Larson, Robert N. Allen		female; 9 plsc (5L, 4R)
AF# 64138			59.4083 / -135.9555				
UAM 64603	Peromyscus keeni		United States, Alaska, Skagway Quad, 24 mile Haines Highway	27 Jun 2002	Collector: Kristian R. Larson, Robert N. Allen		male; T=3x2
AF# 64139			59.4083 / -135.9555				159-76-19-15 mm 11.42
UAM 64604	Peromyscus keeni		United States, Alaska, Skagway Quad, 24 mile Haines Highway	26 Jun 2002	Collector: Kristian R. Larson, Robert N. Allen		sex unknown
AF# 64174			59.4083 / -135.9555				embryo
tissues only; Frozen Tissues							

UAM Catalog Number		Scientific Name	Locality		Collector(s)	Sex and Repro Measurements	
AF Number	Field Number		Latitude/Longitude	Collection Date			Age
Parts: Tissues							
UAM 64605	Peromyscus keeni		United States, Alaska, Skagway Quad, Porcupine River		Collector: Kristian R. Larson, Robert N. Allen	male; T=10x8	
AF# 64140	skull; Frozen Tissues		59.4147 / -136.0972	26 Jun 2002		202-105-20-18 mm	23.1
UAM 64606	Peromyscus keeni		United States, Alaska, Skagway Quad, Porcupine River		Collector: Kristian R. Larson, Robert N. Allen	male; T=9x7	
AF# 64141	skull; Frozen Tissues		59.4147 / -136.0972	26 Jun 2002		178-84-20-18 mm	24.4
UAM 64607	Microtus longicaudus		United States, Alaska, Skagway Quad, Porcupine River		Collector: Kristian R. Larson, Robert N. Allen	female; no plsc	
AF# 64142	skull; Frozen Tissues		59.4147 / -136.0972	26 Jun 2002		139-46-18-11 mm	20.24
UAM 64608	Sorex monticolus		United States, Alaska, Skagway Quad, Porcupine River		Collector: Kristian R. Larson, Robert N. Allen	male; T<1	
AF# 64143	skull; Frozen Tissues		59.4147 / -136.0972	26 Jun 2002		109-42-13-x mm	6.1 g
UAM 64609	Microtus longicaudus		United States, Alaska, Skagway Quad, Porcupine River		Collector: Kristian R. Larson, Robert N. Allen	male; T=9x7	
AF# 64144	skull; Frozen Tissues		59.4147 / -136.0619	27 Jun 2002		138-46-18-12 mm	22.39
UAM 64610	Microtus longicaudus		United States, Alaska, Skagway Quad, Porcupine River		Collector: Kristian R. Larson, Robert N. Allen	male; T=5x3	
AF# 64145	skull; Frozen Tissues		59.4147 / -136.0619	27 Jun 2002		122-39-16-12 mm	13.29
UAM 64611	Peromyscus keeni		United States, Alaska, Skagway Quad, Porcupine River		Collector: Kristian R. Larson, Robert N. Allen	male; T=12x8	
AF# 64146	skull; Frozen Tissues		59.4147 / -136.0619	27 Jun 2002		184-90-18-16 mm	20.21
UAM 64612	Zapus hudsonius		United States, Alaska, Skagway Quad, Porcupine River		Collector: Kristian R. Larson, Robert N. Allen	female; no plsc	
AF# 64147	skull; Frozen Tissues		59.4147 / -136.0619	27 Jun 2002		211-130-31-11 mm	16.6
UAM 64613	Sorex monticolus		United States, Alaska, Skagway Quad, Porcupine River		Collector: Kristian R. Larson, Robert N. Allen	sex unknown	
AF# 64148	skull; Frozen Tissues		59.4147 / -136.0619	27 Jun 2002		118-46-14-x mm	5.91 g
UAM 64614	Sorex monticolus		United States, Alaska, Skagway Quad, Porcupine River		Collector: Kristian R. Larson, Robert N. Allen	male; T=2x1	
AF# 64149	skull; Frozen Tissues		59.4147 / -136.0619	27 Jun 2002		108-40-13-x mm	5.1 g

UAM Catalog Number		Scientific Name	Locality		Collector(s)		Sex and Repro	Age
AF Number	Field Number		Latitude/Longitude	Collection Date			Measurements	
Parts; Tissues								
UAM 64615	Sorex monticolus		United States, Alaska, Skagway Quad, Porcupine River	27 Jun 2002	Collector: Kristian R. Larson, Robert N. Allen	female	107-46-14-x mm 5.86 g	
AF# 64150	skull; Frozen Tissues		59.4147 / -136.0619					
UAM 64616	Microtus longicaudus		United States, Alaska, Skagway Quad, Porcupine River	28 Jun 2002	Collector: Kristian R. Larson, Robert N. Allen	male; T=4	121-42-17-12 mm 14.78	
AF# 64151	skull; Frozen Tissues		59.4147 / -136.0619					
UAM 64617	Peromyscus keeni		United States, Alaska, Skagway Quad, Porcupine River	28 Jun 2002	Collector: Kristian R. Larson, Robert N. Allen	female; 6 embryos (3L, 3R)	176-87-21-18 mm 24.46	
AF# 64152	skull; Frozen Tissues		59.4147 / -136.0619					
UAM 64618	Zapus hudsonius		United States, Alaska, Skagway Quad, Porcupine River	28 Jun 2002	Collector: Kristian R. Larson, Robert N. Allen	female; 7 plsc (3L, 4R)	211-131-28-13 mm 17.7	
AF# 64153	skull; Frozen Tissues		59.4147 / -136.0619					
UAM 64619	Clethrionomys rutilus		United States, Alaska, Skagway Quad, Porcupine River	28 Jun 2002	Collector: Kristian R. Larson, Robert N. Allen	male; T=6x4		
AF# 64154	skull; Frozen Tissues		59.4147 / -136.0619					
UAM 64620	Sorex monticolus		United States, Alaska, Skagway Quad, Porcupine River	28 Jun 2002	Collector: Kristian R. Larson, Robert N. Allen	female (?)	over-winter	
AF# 64155	skull; Frozen Tissues		59.4147 / -136.0619					
UAM 64621	Sorex monticolus		United States, Alaska, Skagway Quad, Porcupine River	28 Jun 2002	Collector: Kristian R. Larson, Robert N. Allen	male; T=2x1	113-42-13-x mm 5.4 g	
AF# 64156	skull; Frozen Tissues		59.4147 / -136.0619					
UAM 64622	Peromyscus keeni		United States, Alaska, Skagway Quad, Porcupine River	28 Jun 2002	Collector: Kristian R. Larson, Robert N. Allen	sex unknown	embryo	
AF# 64175	tissues only; Frozen Tissues		59.4147 / -136.0619					
UAM 64623	Microtus longicaudus		United States, Alaska, Skagway Quad, 17 mile Haines Highway	27 Jun 2002	Collector: Kristian R. Larson, Robert N. Allen	male; T=14x9	171-55-19-10 mm 35.75	
AF# 64157	skull; Frozen Tissues		59.3665 / -135.7982					
UAM 64624	Microtus longicaudus		United States, Alaska, Skagway Quad, 17 mile Haines Highway	27 Jun 2002	Collector: Kristian R. Larson, Robert N. Allen	female; 4 embryos (2L, 2R); CR=15	158-52-17-13 mm 30.14	
AF# 64158	skull; Frozen Tissues		59.3665 / -135.7982					

UAM Catalog Number		Scientific Name	Locality		Collector(s)		Sex and Repro Measurements	Age
AF Number	Field Number		Latitude/Longitude	Collection Date				
Parts; Tissues								
UAM 64625	Sorex cinereus		United States, Alaska, Skagway Quad, 17 mile Haines Highway	27 Jun 2002	Collector: Kristian R. Larson, Robert N. Allen		sex unknown	
AF# 64159	skull; Frozen Tissues		59.3665 / -135.7982					
UAM 64626	Zapus hudsonius		United States, Alaska, Skagway Quad, 17 mile Haines Highway	28 Jun 2002	Collector: Kristian R. Larson, Robert N. Allen		male; T=6x3	
AF# 64160	skull; Frozen Tissues		59.3665 / -135.7982				208-120-30-12 mm	19.1
UAM 64627	Zapus hudsonius		United States, Alaska, Skagway Quad, 17 mile Haines Highway	28 Jun 2002	Collector: Kristian R. Larson, Robert N. Allen		male; T=5x3	
AF# 64161	skull; Frozen Tissues		59.3665 / -135.7982				221-133-31-12 mm	18.0
UAM 64628	Sorex monticolus		United States, Alaska, Skagway Quad, Takah Ridge	28 Jun 2002	Collector: Kristian R. Larson, Robert N. Allen		female; 9 embryos (4L, 5R); CR=2	
AF# 64169	skull; Frozen Tissues		59.2654 / -135.8769				116-48-13-x mm	6.11 g
UAM 64629	Sorex monticolus		United States, Alaska, Skagway Quad, Klukwah Mountain	28 Jun 2002	Collector: Kristian R. Larson, Robert N. Allen		male; T=2x1	
AF# 64162	skull; Frozen Tissues		59.6066 / -135.8535				120-46-14-x mm	4.48 g
UAM 64630	Sorex monticolus		United States, Alaska, Skagway Quad, Klukwah Mountain	28 Jun 2002	Collector: Kristian R. Larson, Robert N. Allen		male; T=1	
AF# 64163	skull; Frozen Tissues		59.6066 / -135.8535				117-44-13-x mm	4.71 g
UAM 64631	Sorex monticolus		United States, Alaska, Skagway Quad, Klukwah Mountain	28 Jun 2002	Collector: Kristian R. Larson, Robert N. Allen		male; T<1	
AF# 64164	skull; Frozen Tissues		59.6066 / -135.8535				115-44-14-x mm	4.75 g
UAM 64632	Sorex monticolus		United States, Alaska, Skagway Quad, Klukwah Mountain	28 Jun 2002	Collector: Kristian R. Larson, Robert N. Allen		male; T=1	
AF# 64165	skull; Frozen Tissues		59.6066 / -135.8535				110-46-14-x mm	4.65 g
UAM 64633	Clethrionomys rutilus		United States, Alaska, Skagway Quad, Klukwah Mountain	29 Jun 2002	Collector: Kristian R. Larson, Robert N. Allen		male; T=11x5	
AF# 64166	skull; Frozen Tissues		59.6066 / -135.8535				134-27-17-11 mm	25.63
UAM 64634	Sorex monticolus		United States, Alaska, Skagway Quad, Klukwah Mountain	29 Jun 2002	Collector: Kristian R. Larson, Robert N. Allen		sex unknown	
AF# 64167	skull; Frozen Tissues		59.6066 / -135.8535				118-45-14-x mm	4.71 g

UAM Catalog Number	Scientific Name	Locality	Collector(s)	Sex and Repro	Age
AF Number	Field Number	Latitude/Longitude	Collection Date	Measurements	
Parts; Tissues					
UAM 64635	Sorex monticolus	United States, Alaska, Skagway Quad, Klukwah Mountain	Collector: Kristian R. Larson, Robert N. Allen	male; T=5x3	
AF# 64168		59.6066 / -135.8535	29 Jun 2002	118-45-13-x mm	7.5 g over-winter
skull; Frozen Tissues					
UAM 64636	Microtus oeconomus	United States, Alaska, Skagway Quad, Mount Raymond	Collector: Kristian R. Larson, Robert N. Allen	female	
AF# 64170		59.6597 / -135.9151	29 Jun 2002	92-21-15-10 mm	8.49 g juvenile
skull; Frozen Tissues					
UAM 64637	Microtus oeconomus	United States, Alaska, Skagway Quad, Mount Raymond	Collector: Kristian R. Larson, Robert N. Allen	male; T=8x7	
AF# 64171		59.6597 / -135.9151	29 Jun 2002	157-34-18-12 mm	45.67
skull; Frozen Tissues					
UAM 64638	Microtus oeconomus	United States, Alaska, Skagway Quad, Mount Raymond	Collector: Kristian R. Larson, Robert N. Allen	female; 4 embryos (2L, 2R)	
AF# 64172		59.6597 / -135.9151	29 Jun 2002	150-32-15-12 mm	29.95
skull; Frozen Tissues					