

AERIAL TERRESTRIAL WILDLIFE SURVEY					
DATE	LOCATION	SPECIES	NO. OF INDIVIDUALS	EVIDENCE	COMMENTS
<i>Spring 2003 Survey</i>					
4/2/2003	T-Line	Dall sheep		tracks	Indian substation
4/2/2003	T-Line	Moose		tracks	Indian substation
4/2/2003	T-Line	Bald eagle	1	visual	flying along Bird Creek
4/2/2003	T-Line	Moose		tracks	Glacier Creek
4/2/2003	T-Line	Moose		tracks	Portage substation
4/2/2003	T-Line	Snowshoe hare		tracks	Placer River
4/2/2003	T-Line	Moose	5	visual	browsing on vegetation
4/2/2003	T-Line	Beaver		small dams	Placer River
4/2/2003	T-Line	Moose		tracks	Turnagain Pass
4/2/2003	T-Line	Snowshoe hare		tracks	Turnagain Pass
4/2/2003	T-Line	Snowshoe hare		tracks	Granite Creek
4/2/2003	T-Line	Coyote		tracks	Granite Creek
4/2/2003	T-Line	Coyote		tracks	East Fork Creek
4/2/2003	T-Line	Moose		tracks	East Fork Creek
4/2/2003	T-Line	Snowshoe hare		tracks	East Fork Creek
4/2/2003	T-Line	Coyote		tracks	Hope substation/Canyon Creek
4/2/2003	T-Line	Snowshoe hare		tracks	Hope substation/Canyon Creek
4/2/2003	T-Line	Red squirrel		tracks	Hope substation/Canyon Creek
4/2/2003	T-Line	Weasel spp.		tracks	Hope substation/Canyon Creek
4/2/2003	T-Line	Lynx		tracks	Structure 85
4/2/2003	T-Line	Moose	3	visual	browsing near the powerline at Cooper Landing
4/2/2003	Cooper Lake	Lynx		tracks	followed along lake edge
4/2/2003	Cooper Lake	Coyote		tracks	followed along lake edge
4/2/2003	Cooper Lake	Snowshoe hare		tracks	followed along lake edge
4/2/2003	Cooper Lake	Mountain goat		tracks	on East side Cooper Mtn. adjacent to the lake

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4/2/2003	Cooper Lake	Marmot		tracks	adjacent to the lake on slope of Cooper Mtn.
4/2/2003	Cooper Lake	Weasel/Mink		tracks	S. end of Cooper Lake near tributary
4/2/2003	Cooper Lake	Red Fox		tracks	adjacent to the lake
4/2/2003	Cooper Lake	Red squirrel		tracks	adjacent to the lake
4/2/2003	Cooper Lake	Moose		tracks	adjacent to and on the lake
4/2/2003	Cooper Lake	Snowshoe hare		tracks	adjacent to the lake
Fall 2003 Survey					
10/2/2003	T-Line	Moose	16	visual	5 bulls and 11 cows along powerline pass trail
10/2/2003	T-Line	Dall sheep		tracks	fresh tracks on top of powerline pass
10/2/2003	T-Line	Moose	1	visual	1 bull on trail, south side of powerline pass
10/2/2003	T-Line	Bald eagle	1	visual	Rainbow
10/2/2003	T-Line	Bald eagle	1	visual	near Girdwood
10/2/2003	T-Line	Tundra swan	16	visual	wetlands near Girdwood
10/2/2003	T-Line	Bald eagle	1	visual	juvenile perched in cottonwood in Portage Valley
10/2/2003	T-Line	Tundra swan	8	visual	wetlands near Peterson Creek
10/2/2003	T-Line	Moose	2	visual	2 cows in Portage Valley
10/2/2003	T-Line	Tundra swan	20	visual	wetlands in Portage Valley
10/2/2003	T-Line	Bald eagle	1	visual	flying along Portage Valley
10/2/2003	T-Line	Moose	2	visual	2 cows in Portage Valley
10/2/2003	T-Line	Tundra swan	95	visual	wetlands near Placer River Valley
10/2/2003	T-Line	Bald eagle	1	visual	flying near Hope cut-off
10/2/2003	T-Line	Moose	3	visual	1 cow with 2 calves at Lower Summit Lake
10/2/2003	T-Line	Tundra swan	22	visual	Summit Lake
10/2/2003	T-Line	Bald eagle	1	visual	immature bald eagle perched near Summit Lake
10/2/2003	T-Line	Bald eagle	3	visual	perched near Quartz Creek
10/2/2003	T-Line	Red-necked grebe	1	visual	Quartz Creek

AERIAL TERRESTRIAL WILDLIFE SURVEY

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10/2/2003	T-Line	Mallard	4	visual	Quartz Creek
10/2/2003	T-Line	Dall sheep	26	visual	slope above Quartz Creek
10/2/2003	T-Line	Mountain goat	3	visual	slope above Quartz Creek
10/2/2003	T-Line	Mountain goat	3	visual	east side of Cecil Rhode Mountain
10/2/2003	Cooper Lake	Moose	1	visual	north of intake
10/2/2003	Cooper Lake	Tundra swan	15	visual	in lake
10/2/2003	Cooper Lake	Greater scaups	13	visual	in lake
10/2/2003	Cooper Lake	Moose	2	visual	1 bull and 1 cow NW of dam
10/2/2003	Cooper Lake	Bear		den	possible active den located on S. end of Cooper Mtn.
10/2/2003	Cooper Lake	Marmot		small den	possible marmot den located on S. end Cooper Mtn
10/2/2003	Cooper Lake	Snowshoe hare		tracks	fresh tracks near small dens
10/2/2003	Cooper Lake	Bear		den	west side of Cooper Mtn.

Survey Location and Number of Individuals

Common Name	Creek 1	Creek 2	Dam Access 1	Dam Access 2	Lake 1	Lake 2	Snug Harbor 1	Snug Harbor 2	Transmission 1	Transmission 2	Total	Percent
Alder flycatcher					2	2	1		16	8	29	1.2
American dipper	11	4							1		16	0.6
American pipit									1	30	31	1.2
American Robin	5	1	2		20	2	5	4	9	7	55	2.2
Bald eagle	1				1	4	3		3	2	14	0.6
Bank swallow					90	10					100	4.0
Belted kingfisher									1		1	0.0
Black-billed magpie					5	3			11	5	24	1.0
Black-capped chickadee	6	17	3	4	6	12	3	19	18	33	121	4.9
Blackpoll warbler			1		2		2		2		7	0.3
Boreal chickadee			1	4		4	2	6		6	23	0.9
Brown creeper		1		4	1		1	6		3	16	0.6
Canada goose					1						1	0.0
Cliff swallow				1	2					41	44	1.8
Common raven	2					2	2	4	3	4	17	0.7
Common redpoll	1		30		25	4	4		12	7	83	3.3
Dark-eyed junco	4	5	6	16	17	6	19	31	24	41	169	6.8
Downy woodpecker				1	1	1	2		1	1	7	0.3
Fox sparrow		1	4	1			1		3		10	0.4
Golden-crowned kinglet			1				3	6			10	0.4
Golden-crowned sparrow	2	1	3	1	26	17			18	16	84	3.4
Gray jay	2	1	4	2	2	2	5		8	8	34	1.4
Hairy woodpecker	1		1		1				3	1	7	0.3
Hermit thrush	4	2	7	2	32	41	12	14	43	10	167	6.7
Lincoln's sparrow		2	1	1	3	14	7	6	11	12	57	2.3
Merlin					1					1	2	0.1
Northern flicker								1			1	0.0
Northern goshawk				1						1	2	0.1
Northern waterthrush		1									1	0.0
Olive-sided flycatcher			6	2	3	1	5	3	4		24	1.0
Orange crowned warbler	2	1	6		20	9	8	8	20	4	78	3.1
Pine grosbeak	1		1				4	1	1	1	9	0.4

Survey Location and Number of Individuals

Common Name	Creek 1	Creek 2	Dam Access 1	Dam Access 2	Lake 1	Lake 2	Snug Harbor 1	Snug Harbor 2	Transmission 1	Transmission 2	Total	Percent
Pine siskin	26		45	10	216	16	16	16	145	113	603	24.2
Red crossbill	1		10		3				2		16	0.6
Red-breasted nuthatch		1		2		2	3	1		3	12	0.5
Rock ptarmigan									4	1	5	0.2
Ruby-crowned kinglet	4	1	2	4	34	18	13	19	31	6	132	5.3
Savannah sparrow			2		15	15	1		6	4	43	1.7
Sharp-shinned hawk									1		1	0.0
Spruce grouse		2	1	8		5		1	1		18	0.7
Steller's jay	1		3	1	2	4	1				12	0.5
Swainson's thrush	1		2		1	2	1	1		1	9	0.4
Townsend's warbler	2		7		3	2	7	2	11	6	40	1.6
Tree swallow						17			1		18	0.7
Tundra swan					6						6	0.2
Varied thrush	2		3	2	4		15	13	15	7	61	2.5
Violet-green swallow			3		5	3	1		12	6	30	1.2
Western wood-pewee					1		1				2	0.1
White-crowned sparrow					2					2	4	0.2
White-winged crossbill					5		2		2		9	0.4
Wilson's warbler	4	4	8	2	24	25	3	3	22	8	103	4.1
Wilson's snipe					8	3	3		5	3	22	0.9
Yellow warbler	1	1	4	2	17	9	6	1	10	9	60	2.4
Yellow-rumped warbler	6		4		8	2	6	3	7	1	37	1.5
Total	90	46	171	71	615	257	168	169	488	412	2487	100.0

Incidental Wildlife Observations

Date	Species	General Location	Habitat Description	Comments
5/19/2003	Black bear	S. Cooper Lake	shoreline	adult tracks along with yearling tracks in sand
5/20/2003	Bald eagle	S. Cooper Lake	Waterbodies/ Waterways	adult flying above lake
5/20/2003	Moose	Snug Harbor Rd.	Mixed Forest	2 separate moose on road
5/20/2003	Spruce grouse	Snug Harbor Rd.	Needleleaf Forest	adult female crossing road
5/20/2003	Black bear	0.5 mile NE of Powerhouse	scrub community	Adult female with 2 second year cubs
5/22/2003	Hoary marmot	C. Creek- 2nd avalanche area	scrub community	whistling and calling
6/3/2003	Red fox	S. end Cooper Lake	sand, gravel bar	
6/3/2003	Beaver	S. end of Cooper Lake	Forb and Herbaceous	near CL transect 7
6/3/2003	Moose	S. end of Cooper Lake	Forb and Herbaceous	near T-line point 12 cow moose and newborn calf
6/4/2003	Moose	S. end of Cooper Lake	Forb and Herbaceous	between T-line point 9 & T-line point 10
6/4/2003	Porcupine	S. end of Cooper Lake	shoreline	
6/5/2003	Black bear	S. end of Cooper Lake	shoreline	yearling cub tracks/ adult tracks
6/5/2003	Coyote	S. end of Cooper Lake	shoreline	
6/5/2003	Moose	S. end of Cooper Lake	shoreline	near CL Transect 7
6/15/2003	River otter	S. End CL near large tributary	Waterbodies/ Waterways	seen swimming in tributary
6/17/2003	Wilson's warbler	T-Line- Powerline Pass	scrub community	fledging begging, fledging and adults foraging in alder
6/17/2003	Northern harrier	Powerline Pass	scrub community	adult male flying low over ground
6/17/2003	Great-horned owl	Snug Harbor Rd/ Sterling Hwy.	Disturbed areas/Unvegetated	found dead on side of road
6/17/2003	Wilson's snipe	T-line near Airports Hts. Rd.	Forb and Herbaceous	flushed while walking
6/17/2003	Pine siskin	Powerline Pass	Forb and Herbaceous	adult feeding fledging
6/18/2003	Northern wheatear	Top of Powerline Pass	scrub community	perched on rocky outcropping - on top of powerline pass
6/18/2003	Moose	Glenn Alps- Powerline Pass	scrub community	
6/18/2003	Moose	Glenn Alps	scrub community	bedding down area
6/18/2003	Arctic ground squirrel	Powerline Pass	scrub community	calling from burrow
6/18/2003	Dall sheep	Powerline Pass	scrub community	4 ewes, 2 lambs- heading up steep slope
6/18/2003	Rough-legged hawk	Powerline near Girdwood	Forb and Herbaceous	perched in spruce snag near T-line
6/18/2003	Black bear	T-line near Indian substation	Broadleaf Forest	2 juvenile black bears spotted from helicopter

Incidental Wildlife Observations

Date	Species	General Location	Habitat Description	Comments
6/24/2003	Spruce grouse	Quartz Creek Road	Needleleaf Forest	crossing dirt road
6/25/2003	Collared pika	Cooper Creek campsite	scrub community	calling from rocky slope
6/26/2003	Northern shrike	Cooper Lake- S. End of Lake	Broadleaf Forest	quietly perched on cottonwood snag
6/26/2003	Northern goshawk	Snug Harbor Road	Needleleaf Forest	flew across road
6/27/2003	Belted kingfisher	Cooper Creek Campground	Mixed Forest	flying through creek area
6/27/2003	Winter wren	Cooper Creek Campground	Mixed Forest	on ground near downed logs - damp ground
7/10/2003	Spruce grouse	Snug Harbor Road	Needleleaf Forest	1 adult female with 6 young
7/11/2003	Mountain goat	Cecil Rhode Mountain	scrub community	16 total- 5 kids
7/11/2003	Brown bear	Snug Harbor Road	Needleleaf Forest	1 adult seen from vehicle - crossing Snug Harbor Rd
7/22/2003	Black bear	Summit Lake - T-line	Needleleaf Forest	1 adult seen while surveying T-line for vegetation
7/23/2003	Black bear	Bird Ridge Trail	Mixed Forest	fresh scat- small black bear on trail before TLP9
7/23/2003	Northern goshawk	Bird Ridge Trail	Mixed Forest	1 juvenile NOGO perched in spruce tree
7/23/2003	Northern harrier	T-Line near Portage	Forb and Herbaceous	adult male flying low under T-line
7/23/2003	Great-horned owl	T-Line near Point 13	Broadleaf Forest	flushed out of cottonwood tree
7/30/2003	Hoary marmot	Top of Powerline Pass	scrub community	whistling outside of den
7/30/2003	Say's phoebe	Cooper Dam	Forb and Herbaceous	1 adult perched on edge of Dam flycatching
8/1/2003	Golden eagle	Portage MP 80	flying towards Portage Glacier	