

# Collared Pika Surveys

## \* <sup>from P003</sup> ~~Passive~~ <sup>mass</sup> ~~not~~ <sup>integrated</sup> ~~Detection~~ <sup>Worksheet</sup>

Site Code:	P003	Observer:	AD/RK	GPS ID:	unit 27
Date (yyyy-mm-dd):	2018-07-10	Latitude (dd):		Longitude (dd):	
Start Time:	10:30	End Time:	13:30	GPS Track:	date P003 unit 27 + unit 33
Temperature:	50 F	Wind Speed:	2.9 mi/hr	Notes:	

### Detection Data

		Feces			Haypile							Animal				Audio
Species	WP	Color (G/B)	Sample (Y/N)	Coin/Vial	Dist Veg	Veg Type	Color (G/B)	Size (L)	Size (W)	Size (H)	Sample (Y/N)	Transect Bearing	Animal Bearing	Dist	Count	Y/N
marmot	012											198°	215°	40	1	N
marmot	012											198°	198°	17.5	1	N
pika	013				0	grass/moss	G+B	—	—	—	Y					
marmot?	013		Y													
pika	013	B	Y													
squirrel	014															
pika	015				0	grass/weed	B	—	—	—	Y	210°	255°	17	1	N
pika	015	B	Y													
marmot	015	B	Y													
pika	016	<del>black</del>	<del>black</del>		0	grass/forbs	B	—	—	—	Y					
pika	016	B	Y													
pika	017				note: 5 m from ADEG coin							40°	230°	3	1	Y
pika	018											20°	295°	<del>17.5</del>	1	
pika	019											182°	267°	<del>17.5</del>	1	Y
pika	020				0	grass	B	—	—	—	Y					
pika	021				0	grass	B	—	—	—	Y					
pika	022				0	grass	B	—	—	—	Y					

Species: pika, marmot, AGS, vole, bl. or br. bear, sheep, unknown; WP=waypoint; Color: G=green, B=brown; Sample: Collected Y/N; Coin/Vial: feces in coin envelope or 1.5ml vial; Dist Veg and Veg Type: distance to Viereck III vegetation types; L=length, W=width, H=height(cm) of haypiles; Transect Bearing: compass reading for path of travel; Animal Bearing: compass reading to animals; Dist=distance(m) to animals with rangefinder; Count=#of animals detected; audio(Y/N): if you hear an animal's call on site (you may not see it or know how far away).

Notes:

pos page 2

## Detection Datasheet

## Site Code:

Date (yyyy-mm-dd):

**Latitude (dd):**

## Longitudinal

**Longitude (dd):**

**Start Time:****End Time:**

## GPS Track:

**Temperature:**

**Wind Speed:**

## Notes

## Detection Data

[illegible]

Species: pika, marmot, AGS, vole, bl. or br. bear, sheep, unknown; WP:waypoint; Color: G=green, B=brown; Sample: Collected Y/N; Coin/Vial: feces in coin envelope or 1.5ml vial; Dist Veg and Veg Type: distance to Viereck III vegetation types; L=length, W=width, H=height(cm) of haypiles; Transect Bearing: compass reading for path of travel; Animal Bearing: compass reading to animals; Dist=distance(m) to animals with rangefinder; Count: #of animals detected; Audio(Y/N): if you hear an animal's call on site (you may not see it or know how far away).

## Site Information

top most transect done by Rachel & Marion - on unit 33

**Notes:**

## Collared Pika Surveys

## Detection Datasheet

Site Code: POOS	Observer: KC, SG, CB, JW, PS	GPS ID: 49
Date (yyyy-mm-dd): 2018-07-10	Latitude (dd):	Longitude (dd):
Start Time: 1100 WP 126 = start	End Time: 1330	GPS Track:
Temperature: 50°F	Wind Speed: 2.9 mph	Notes: Precip: light rain

## Detection Data

		Feces			Haypile    inches							Animal				Audio
Species	WP	Color (G/B)	Sample (Y/N)	Coin/Vial	Dist Veg	Veg Type	Color (G/B)	Size (L)	Size (W)	Size (H)	Sample (Y/N)	Transect Bearing	Animal Bearing	Dist	Count	Y/N
COP1	126											20	59	45.5	1	N
HOMA	127											110	115	36	1	N
COP1	128	0	Y	C	3	EDS	G+B	1	1	1/2	Y					
COP1	130	0	Y	C	4	EDS	G+B	5	2	1/2	Y					
COP1	130											26	138	60	1	N
COP1	131				2	EDS	G+B	5	3	1						
HOMA	132											114	144	46	1	N
COP1	132				2	EDS	G+B	1	1	1/2	Y					
COP1	134	0	Y	C	1	EDS+LI	B									
HOMA	135											12	44	19	1	N
COP1	135											12	92	73	1	N
COP1	135											12	12	13.5	1	Y
COP1	136				5	EDS	G+B	1	2	1/2	Y					
COP1	137	N/O	Y	C												
COP1	138				5	G+B+LI	B				N					
COP1	139				0.5	G+B+LI	B				N	16	139	34.5	1	N
COP1	140											16	87	4	1	Y

Species: pika, marmot, AGS, vole, bl. or br. bear, sheep, unknown; WP=waypoint; Color: G=green, B=brown; Sample: Collected Y/N; Coin/Vial: feces in coin envelope or 1.5ml vial; Dist Veg and Veg Type: distance to Viereck III vegetation types; L=length, W=width, H=height(cm) of haypiles; Transect Bearing: compass reading for path of travel; Animal Bearing: compass reading to animals; Dist=distance(m) to animals with rangefinder; Count=#of animals detected; audio(Y/N): if you hear an animal's call on site (you may not see it or know how far away).

\* EDS = Encrusted dwarf shrub

LI = lichen

ADD: precip

- water feature presence

- snow presence

Notes:

continued from  
over side

## Site Information

## Detection Data

Species: pika, marmot, AG3, vole, bl. or br. bear, sheep, unknown; WP:waypoint; Color: G=green, B=brown; Sample: Collected Y/N; Coin/Vial: feces in coin envelope or 1.5ml vial; Dist Veg and Veg Type: distance to Viereck III vegetation types; L=length, W=width, H=height(cm) of haypiles; Transect Bearing: compass reading for path of travel; Animal Bearing: compass reading to animals; Dist=distance(m) to animals with rangefinder; Count: #of animals detected; Audio(Y/N): if you hear an animal's call on site (you may not see it or know how far away).

## Site Information

**Notes:**

Site Code: P003	Observer: JW/AD	GPS ID: Unit 4S
Date (yyyy-mm-dd): 2018-07-09	Latitude (dd):	Longitude (dd):
Start Time: ~ 11:00	End Time: 15:00	GPS Track: 2018-07-09 P003-01
Temperature: 46.9°F	Wind Speed: 4.3 mph	Notes:

## Detection Data

Species		WP	Feces			Haypile							Animal				Audio
			Color (G/B)	Sample (Y/N)	Coin/Vial	Dist Veg	Veg Type	Color (G/B)	Size (L)	Size (W)	Size (H)	Sample (Y/N)	Transect Bearing	Animal Bearing	Dist (m)	Count	Y/N
UNK				Y													
PIKA	002												106°	106°	2	1	Y
PIKA	003												190°	256°	15.5	1	Y
PIKA	006												96°	20°	8	1	N
PIKA	008												—	—	—	1	Y
MARMOT	009												36°	2°	32.5	1	Y
PIKA	009												36°	2°	40	1	Y
PIKA	010												114°	194°	10	1	N
PIKA	011					notes:	at end of track						306°	269°	11	1	Y
PIKA	015					1m	ericaceous dwarf	B				Y					
PIKA	016					5m	ericaceous dwarf	B				Y					
PIKA	018					5m	ericaceous dwarf	B				Y					
PIKA	019					2m	ericaceous dwarf	G+B				Y					
PIKA	020												216°	216°	30.5	1	Y

Species: pika, marmot, AGS, vole, bl. or br. bear, sheep, unknown; WP=waypoint; Color: G=green, B=brown; Sample: Collected Y/N; Coin/Vial: feces in coin envelope or 1.5ml vial; Dist Veg and Veg Type: distance to Viereck III vegetation types; L=length, W=width, H=height(cm) of haypiles; Transect Bearing: compass reading for path of travel; Animal Bearing: compass reading to animals; Dist=distance(m) to animals with rangefinder; Count=#of animals detected; audio(Y/N): if you hear an animal's call on site (you may not see it or know how far away).

Notes:



## Collared Pika Surveys

## Detection Datasheet

## Site Information

Site Code:	0003	Observer:	Paul, Rachel	GPS ID:	PS. 49
Date (yyyy-mm-dd):	2018-07-09	Latitude (dd):		Longitude (dd):	
Start Time:	12:15 pm	End Time:	5:15 pm	GPS Track:	2018-07-09 0003 49
Temperature:	46.9 °F	Wind Speed:	4.3 mph	Notes:	

## Detection Data

		Feces			Haypile							Animal				Audio
Species	WP	Color (G/B)	Sample (Y/N)	Coin/Vial	Dist Veg	Veg Type	Color (G/B)	Size (L)	Size (W)	Size (H)	Sample (Y/N)	Transect Bearing	Animal Bearing	Dist	Count	Y/N
AGS	103	G	Y	C								248	26	133	1	Y
PTA	104	G	Y	C												
Pika	105															
Pika	106	G	Y	C	5m	creeping dwarf shrub	G+B	7in	8in	1.5in	Y	298	26	133	1	Y
Pika	107											120	160	10.5	1	N
Pika	108	G	Y	C	6m	creeping dwarf shrub	G+B	4m	4m	0.5m	Y					
Pika	109	G	Y	C	8m	" + grass	B	3 scattered patches		w/5m	Y					
Pika	110	G	Y	C	15m	"	G+B				Y					
Pika	111	G	N		8m	"	G+B	3m	3m	1in	N					
Pika	112	G	N		18m	"	B				N					
Pika	113	G	N		6m	"	B				N					
Pika	114	G	N		3m	"	G+B	3in	9in	1/2in	N					
Pika	115	G	N		2m	"	G+B	1in	1in	1in	N					
Pika	116											134	138	22.5	1	
Pika	117	G	N		1m	"	G+B	1	1	1	N					
Pika	118	G	N		2m	"	B				N					
Pika	119				3m	"	G				N	305	272	10	1	Y

Species: pika, marmot, AGS, vole, bl. or br. bear, sheep, unknown; WP: waypoint; Color: G=green, B=brown; Sample: Collected Y/N; Coin/Vial: feces in coin envelope or 1.5ml vial; Dist Veg and Veg Type: distance to Viereck III vegetation types; L=length, W=width, H=height(cm) of haypiles; Transect Bearing: compass reading for path of travel; Animal Bearing: compass reading to animals; Dist=distance(m) to animals with rangefinder; Count: #of animals detected; Audio(Y/N): if you hear an animal's call on site (you may not see it or know how far away).

## Site Information

Water: lake, pond, stream, none  
Snow: (Y/N):

Trail through site with ~50 people today

Notes:

## Detection Datsheet

Site Code:	Observer:	GPS ID:
Date (yyyy-mm-dd):	Latitude (dd):	Longitude (dd):
Start Time:	End Time:	GPS Track:
Temperature:	Wind Speed:	Notes:

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[illegible]

animal's call on site (you may not see it or know how far away)).

Notes:



## Collared Pika Surveys 2018

## Vegetation Plot Field Datasheet

WP031 Unit 27

## Site Information

Site Code: <u>P005</u>	Date (yyyy-mm-dd): <u>2018-07-10</u>	Plot Size (m): <u>10 x 10</u>	Plot Radius (m):
Latitude (dd):	Longitude (dd):	Slope (°): <u>20</u>	Vascular: Highest cover
Survey Method: Visual Estimate	Elevation (m):	Aspect (°): <u>120</u>	Non-vascular: none
Observer 2: <u>AD</u>	Observer 1: <u>RK</u>	Cover Method: semi-quant	Lichen: none

## General Cover

**Instructions:** Absolute cover is measured independently of other layers. Absolute cover can/often will sum to values > 100%. Ground cover must sum to 100%. The substrate underneath moss, lichen, and biotic crusts is ignored for ground cover.

Life Form	Absolute Cover	Height
Needleleaf	—	—
Broadleaf	—	—
Tall Shrub (> 1.5 m)	—	—
Low Shrub (0.2 - 1.5 m)	—	—
Dwarf Shrub (< 0.2 m)	<u>50</u> 90	5cm
Forb	5	
Ferns/Allies	—	
Grass	5	
Rush		
Sedge		
Moss	<u>40</u> 50	
Lichen	10	

together

Ground Form	Ground Cover
Litter	<u>40</u> 5
Biotic Crust	—
Bare Ground	10
Rock	<u>12</u> 15
Moss	<u>40</u> 50
Lichen	20
Water	—

## Environmental Characteristics

Physiography:	Strata:
Fine Geomorphology:	Disturbance Type:
Vegetation Class: <u>ericaceous</u> <u>dwarf</u>	Disturbance:

## Species Cover

**Instructions:** Each entity should be recorded at the finest taxonomic resolution possible. Use full names rather than codes or abbreviations. Cover values should be estimated based on absolute cover. Cover values can sum to greater than 100%.

Date (yyyy-mm-dd):	Observer 1:			Observer 2:			
Taxon	Cover	Height	Vouch.	Taxon	Cover	Height	Vouch.
<u>Harmonella</u>	70	7					
<u>Arctostaphylos</u>							
<u>partridge foot</u>	60	3.5					
<u>club moss</u>	35	2					
<u>alpine?</u>							
<u>Luetkea pectinata</u>							

not surveyed: herbaceous forb (mesic?)

talus: ~20% of site  
snow: noWP029 on unit 27  
roughly closest dist. to talus  
large shrub patch

## Collared Pika Surveys 2018

# Vegetation Plot Field Datasheet

## Site Information

WP 029

Unit 27

Site Code: P005		Date (yyyy-mm-dd): 2018-07-10		Plot Size (m): 10 x 10		Plot Radius (m):	
Latitude (dd):		Longitude (dd):		Slope (°): 35°		Scope	
Survey Method: Visual Estimate		Elevation (m): GPS		Aspect (°): 120°			
Observer 2: RK		Observer 1: AD		Cover Method: semi-quant			
						Vascular: Highest cover	
						Non-vascular: none	
						Lichen: none	

## General Cover

**Instructions:** Absolute cover is measured independently of other layers. Absolute cover can/often will sum to values > 100%. Ground cover must sum to 100%. The substrate underneath moss, lichen, and biotic crusts is ignored for ground cover.

Life Form	Absolute Cover	Height
Needleleaf	—	
Broadleaf	—	
Tall Shrub (> 1.5 m)	—	
Low Shrub (0.2 - 1.5 m)	80	~ 1 m
Dwarf Shrub (< 0.2 m)	—	
Forb	80	
Ferns/Allies	3	
Grass		
Rush		
Sedge		
Moss	35	
Lichen	1	

} together 20%

Physiognomy
Fine Geobotany
Vegetation

together  
20%.

Ground Form	Ground Cover
Litter	rest
Biotic Crust	
Bare Ground	40
Rock	3
Moss	35
Lichen	1
Water	—

## Environmental Characteristics

Physiography:	Strata:
Fine Geomorphology:	Disturbance Type:
Vegetation Class: 11.C.1	Disturbance:

closed low scrub

## Species Cover

Instructions: Each entity should be recorded at the finest taxonomic resolution possible. Use full names rather than codes or abbreviations. Cover values should be estimated based on absolute cover. Cover values can sum to greater than 100%.

[illegible]

# Vegetation Plot Field Datasheet

## 10

## General Cover

Ground Form	Ground Cover
Litter	/
Biotic Crust	
Bare Ground	
Rock	<del>100</del> 10
Moss	65
Lichen	<del>30</del> 25
Water	

Physiography:	Strata:
Fine Geomorphology:	Disturbance Type:
Vegetation Class: mesic?	Disturbance:

graminoid

[illegible]

## Collared Pika Surveys

## Detection Datasheet

## Site Information

Site Code: P008	Observer: R. Kelly	GPS ID: 33
Date (yyyy-mm-dd): 2018-07-11	Latitude (dd):	Longitude (dd):
Start Time: 11:45 am	End Time: 4:20 pm	GPS Track: 2018-07-11 RK P008A U33
Temperature: 44 °F	Wind Speed: 4.7 mph avg	Notes: 2018-07-11 RK P008B U33

## Detection Data

		Feces			Haypile							Animal				Audio
Species	WP	Color (G/B)	Sample (Y/N)	Coin/Vial	Dist Veg	Veg Type	Color (G/B)	Size (L)	Size (W)	Size (H)	Sample (Y/N)	Transect Bearing	Animal Bearing	Dist	Count	Y/N
Pika	003				4m	Grass, aspen, flowers	B				Y					
marmot?	003	G	Y	C												
Pika	004	G+B	Y	C	1m	"	B				Y					
Pika	005				3m	"	B				Y					
marmot?	005	G	Y	C												
Pika	005	B	Y	C												
Pika	006	B+G	N	-	3m	"	G+B				Y	58	342	14.5	1	Y
Pika	006											58	58	10.5	1	Y
<del>Pika</del>	<del>007</del>	<del>B+G</del>	<del>Y</del>	<del>C</del>												
Pika	008											55	128	21	1	Y
Pika	009	B+G	N	-	1m	"	B				N					
Pika	010											220	108	28.5	1	Y
marmot	010											220	105	31.5	1	Y
Pika	010	B	N	-	1m	"	B				N					
marmot	011											238	238	40.5		Y
Pika	011											238	232	5		Y
Pika	012	B	N	-	2m	"	B				N					

Species: pika, marmot, AGS, vole, bl. or br. bear, sheep, unknown; WP: waypoint; Color: G=green, B=brown; Sample: Collected Y/N; Coin/Vial: feces in coin envelope or 1.5ml vial; Dist Veg and Veg Type: distance to Viereck III vegetation types; L=length, W=width, H=height(cm) of haypiles; Transect Bearing: compass reading for path of travel; Animal Bearing: compass reading to animals; Dist=distance(m) to animals with rangefinder; Count: #of animals detected; Audio(Y/N): if you hear an animal's call on site (you may not see it or know how far away).

## Site Information

Notes:



## Collared Pika Surveys

## Detection Datasheet

## Site Information

Site Code: P008	Observer: AD	GPS ID: 27
Date (yyyy-mm-dd): 2018-07-11	Latitude (dd):	Longitude (dd):
Start Time: ~12PM	End Time:	GPS Track: 2018-07-11 P008 U27
Temperature: 44°F	Wind Speed: 4.7mph	Notes:

## Detection Data

		Feces			Haypile							Animal				Audio
Species	WP	Color (G/B)	Sample (Y/N)	Coin/Vial	Dist Veg	Veg Type	Color (G/B)	Size (L)	Size (W)	Size (H)	Sample (Y/N)	Transect Bearing	Animal Bearing	Dist	Count	Y/N
pika	032				did not resight							50	162	458	1	N
marmot	032				saw	in bios when		scanning for		pika		50	144	45	1	N
marmot	032											50	198	27	1	Y
pika	033				1.5m	lyetka shrub	B				Y					
pika	034				<0.5m	forbs + dwarf shrub	B (very little G)				Y					
pika	035	B	Y			(vacuuming?)										
pika	036				1m	lichen moss	G+B	large			Y					
pika	037	B	Y		1-0m	vacuuming shrub	B (little G)				N					
pika	038				→						↘					
marmot	039	B	Y													
marmot	040	B	Y													
pika	041				0	grasses	B				N					
pika	042				2	dwarf shrub	B	several pika signs			N					
pika	042	B	Y													
pika	043															
pika	044				0	eric dwarf shrub	B	small				50	7	16	1	Y
pika	045				0	eric dwarf shrub	B				N					

Species: pika, marmot, AGS, vole, bl. or br. bear, sheep, unknown; WP: waypoint; Color: G=green, B=brown; Sample: Collected Y/N; Coin/Vial: feces in coin envelope or 1.5ml vial; Dist Veg and Veg Type: distance to Vireck III vegetation types; L=length, W=width, H=height(cm) of haypiles; Transect Bearing: compass reading for path of travel; Animal Bearing: compass reading to animals; Dist=distance(m) to animals with rangefinder; Count: #of animals detected; Audio(Y/N): if you hear an animal's call on site (you may not see it or know how far away).

## Site Information



## Collared Pika Surveys

## Detection Datasheet

Site Code: 008	Observer: JW	GPS ID: 45
Date (yyyy-mm-dd): 2018-07-11	Latitude (dd):	Longitude (dd):
Start Time: 11:40	End Time: 120	GPS Track: 2018-07-11 008-45
Temperature: 44°F	Wind Speed: 4.7 mph avg	Notes:

## Detection Data

		Feces			Haypile							Animal				Audio
Species	WP	Color (G/B)	Sample (Y/N)	Coin/Vial	Dist Veg	Veg Type	Color (G/B)	Size (L)	Size (W)	Size (H)	Sample (Y/N)	Transect Bearing	Animal Bearing	Dist	Count	Y/N
PIKA	022				1m	EDS	B				Y					
PIKA	023	B	Y	Coin	5m	EDS	B				Y					
PIKA	024															
HOMA	025	B+G	Y	C												
PIKA	026				1m	EDS	B				N					
AGS	027											72°	72°	43m	1	Y
PIKA	028				0m	EDS	B				N					
PIKA	028											58°	71°	10.5m	1	Y
PIKA	028											238°	213°	15m	1	Y
PIKA	029	B+G	Y	C												
PIKA	030	B+G	N		5m	EDS/hidden	G+B			1cm	Y					
PIKA	031				3m	EDS	B				N					
PIKA	032				0m	EDS/hidden	B				N					
PIKA	033				10m	EDS	B				N					
HOMA	033	G	Y	C												

Species: pika, marmot, AGS, vole, bl. or br. bear, sheep, unknown; WP=waypoint; Color: G=green, B=brown; Sample: Collected Y/N; Coin/Vial: feces in coin envelope or 1.5ml vial; Dist Veg and Veg Type: distance to Viereck III vegetation types; L=length, W=width, H=height(cm) of haypiles; Transect Bearing: compass reading for path of travel; Animal Bearing: compass reading to animals; Dist=distance(m) to animals with rangefinder; Count=#of animals detected; audio(Y/N): if you hear an animal's call on site (you may not see it or know how far away).

Notes:





Collared Pika Surveys 2018  
 For all  
 008 plots: aspect taken facing up → need to  
 Vegetation Plot Field Datasheet  
 WP 035 Unit 45  
 -180°

## Site Information

Site Code: 2008		Date (yyyy-mm-dd): 2008-07-11		Plot Size (m): 10 x 10		Plot Radius (m):	
Latitude (dd):		Longitude (dd):		Slope (°): 18		Vascular: Highest cover	
Survey Method: Visual Estimate		Elevation (m):		Aspect (°): 312		Non-vascular: none	
Observer 2:		Observer 1: ADJM		Cover Method: semi-quant		Lichen: none	

**Instructions:** Absolute cover is measured independently of other layers. Absolute cover can/often will sum to values > 100%. Ground cover must sum to 100%. The substrate underneath moss, lichen, and biotic crusts is ignored for ground cover.

## General Cover

Life Form	Absolute Cover	Height
Needleleaf	—	—
Broadleaf	—	—
Tall Shrub (> 1.5 m)	—	—
Low Shrub (0.2 - 1.5 m)	15	0.5m
Dwarf Shrub (< 0.2 m)	80	10cm

Ground Form	Ground Cover
Litter	70
Biotic Crust	
Bare Ground	2
Rock	55
Moss	22
Lichen	1
Water	

## Environmental Characteristics

Physiography:	Strata:
Fine Geomorphology:	Disturbance Type:
Vegetation Class: <i>Ericaceae</i>	Disturbance:

## Species Cover

Instructions: Each entity should be recorded at the finest taxonomic resolution possible. Use full names rather than codes or abbreviations. Cover values should be estimated based on absolute cover. Cover values can sum to greater than 100%.

Date (yyyy-mm-dd): 2018-07-11	Observer 1: ADJW	Observer 2:
-------------------------------	------------------	-------------

[illegible]

right beside +alus.

higher elevation near top edge of talus  
is *Harmonella-Empetrum* - leutkei  
- combo (not surveyed)

## Vegetation Plot Field Datasheet

WP 034 Unit 45

**Instructions:** Absolute cover is measured independently of other layers. Absolute cover can/often will sum to values > 100%. Ground cover must sum to 100%. The substrate underneath moss, lichen, and biotic crusts is ignored for ground cover.

Ground cover must sum to 100%. The substrate underneath moss, lichen, and biotic crusts is ignored for ground cover.

Ground Form	Ground Cover
Litter	50%
Biotic Crust	—
Bare Ground	1%
Rock	6%
Moss	40%
Lichen	75% (3%)
Water	—

## Collared Pika Surveys 2018

# Vegetation Plot Field Datasheet

## Site Information

Site Code: P003	Date (yyyy-mm-dd): 2018-07-09	Plot Size (m): 10 x 10	Plot Radius (m): 5
Latitude (dd):	Longitude (dd):	Slope (°): 15°	Scope
Survey Method: Visual Estimate	Elevation (m):	Aspect (°): 230°	
Observer 2: JW/AD	Observer 1: PS/RK	Cover Method: semi-quant	
			Vascular: Highest cover
			Non-vascular: none
			Lichen: none

## General Cover

**Instructions:** Absolute cover is measured independently of other layers. Absolute cover can/often will sum to values > 100%. Ground cover must sum to 100%. The substrate underneath moss, lichen, and biotic crusts is ignored for ground cover.

Life Form	Absolute Cover	Height
Needleleaf	0	
Broadleaf	0	
Tall Shrub (> 1.5 m)	0	
Low Shrub (0.2 - 1.5 m)	10	
Dwarf Shrub (< 0.2 m)	95	
Forb	1	
Ferns/Allies	0	
Grass	1	
Rush	0	
Sedge	0	
Moss	90	
Lichen	2	

Ground Form	Ground Cover
Litter	7
Biotic Crust	—
Bare Ground	0
Rock	1
Moss	90
Lichen	2
Water	0

## Environmental Characteristics

Physiography: <i>Alpine</i>	Strata:
Fine Geomorphology:	Disturbance Type:
Vegetation Class: <i>Ericaceous dwarf shrub</i>	Disturbance:

## Species Cover

Instructions: Each entity should be recorded at the finest taxonomic resolution possible. Use full names rather than codes or abbreviations. Cover values should be estimated based on absolute cover. Cover values can sum to greater than 100%.

[illegible]

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## Site Information

Site Code: P007	Observer: AD, RK	GPS ID: Unit 33
Date (yyyy-mm-dd): 2018-07-13	Latitude (dd):	Longitude (dd):
Start Time: 11:30	End Time: 14:55	GPS Track: 2018-07-13 P007 u33
Temperature: 51°F	Wind Speed: avg. 2.4 mi/hr	Notes:

## Detection Data

Species	WP	Feces		Haypile								Animal				Audio
		Color (G/B)	Sample (Y/N)	Coin/Vial	Dist Veg	Veg Type	Color (G/B)	Size (L)	Size (W)	Size (H)	Sample (Y/N)	Transect Bearing	Animal Bearing	Dist	Count	
pika	020				1m	eric. dw. sn.	B	large			Y(N)					
voles?	020	B, F	Y													
mouse?	020	B, O	Y													
marmot	020	B	Y													
pika	020	B	Y													
g. squi.	020	B	Y													
g. squi.	021	B	N													
marmot	021	B	N													
pika	022	B, O	N													
marmot	↓	B, O	Y													
g. squi.	↓	B, O	N													
voles	↓	B, F, O	N													
pika	022				0.5m	EDS	B	large but decepted			N					
voles	023	B, F	Y													
pika	024	B, O	N													
pika	025				0.25m	EDS	B, very old				N					
pika	026				0	EDS lichen grass	B, very old				N					
marmot	027											330	330	56	2	N

Species: pika, marmot, AGS, vole, bl. or br. bear, sheep, unknown; WP: waypoint; Color: G=green, B=brown; Sample: Collected Y/N; Coin/Vial: feces in coin envelope or 1.5ml vial; Dist Veg and Veg Type: distance to Viereck III vegetation types; L=length, W=width, H=height(cm) of haypiles; Transect Bearing: compass reading for path of travel; Animal Bearing: compass reading to animals; Dist=distance(m) to animals with rangefinder; Count: #of animals detected; Audio(Y/N): if you hear an animal's call on site (you may not see it or know how far away).

## Site Information

Notes: Saw g. squirrel at bottom of talus ~~sto~~ just before starting

-fighting

## Collared Pika Surveys

## Detection Datasheet

Site Code:	Observer:	GPS ID:
Date (yyyy-mm-dd):	Latitude (dd):	Longitude (dd):
Start Time:	End Time:	GPS Track:
Temperature:	Wind Speed:	Notes: Pictures of WP035 HP

## Detection Data

		Feces			Haypile							Animal				Audio
Species	WP	Color (G/B)	Sample (Y/N)	Coin/Vial	Dist Veg	Veg Type	Color (G/B)	Size (L)	Size (W)	Size (H)	Sample (Y/N)	Transect Bearing	Animal Bearing	Dist	Count	Y/N
AGS	027											330	330	101	1	N
pika	028				1m	EDS	B	very old			N					
marmot	028	B, old	N													
pika	029				0m	EDS	B	very old			N					
marmot	030	B, old	<del>Y</del>													
vole?	030	B, old	N													
pika	031				2m	EDS	B				N					
pika	032							old haypile								
pika	033				4m	EDS	B, old	very large			N					
pika	033	B, old	N													
g.squi.	033	B, old	N													
pika	034	B, old	N													
pika	034				0m	EDS+S. con. rose	B, very old				N					
marmot	034	B, old	N													
pika	035				3m	EDS+gats	G+B, large				Y(2)					
pika	036				1D	confirmed by RK						18	108	17m	1	N
pika	035	B, old	Y													

Species: pika, marmot, AGS, vole, bl or br bear, sheep, unknown; WP=waypoint; Color: G=green, B=brown; Sample: Collected Y/N; Coin/Vial: feces in coin envelope or 1.5ml vial; Dist Veg and Veg Type: distance to Viereck III vegetation types; L=length, W=width, H=height(cm) of haypiles; Transsect Bearing: compass reading for path of travel; Animal Bearing: compass reading to animals; Dist=distance(m) to animals with rangefinder; Count=#of animals detected; audio(Y/N): if you hear an animal's call on site (you may not see it or know how far away).

Notes:

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Site Information  
Site Code: 0007

Site Code: 0007	Observer:	GPS ID: YN1-33
Date (yyyy-mm-dd):	Latitude (dd):	Longitude (dd):
Start Time:	End Time:	GPS Track:
Temperature:	Wind Speed:	Notes:

### Detection Data

[illegible]

Species: pika, marmot, AGS, vole, bl. or br. bear, sheep, unknown; Color: G=green, B=brown; Sample: Collected Y/N; Coin/Vial: feces in coin envelope or 1.5ml vial; Dist Veg and Veg Type: distance to Viereck III vegetation types; L=length, W=width, H=height(cm) of haypiles; Transect Bearing: compass reading for path of travel; Animal Bearing: compass reading to animals; Dist=distance(m) to animals with rangefinder; Count: #of animals detected; Audio(Y/N): if you hear an animal's call on site (you may not see it or know how far away).

## Site Information

Notes: saw large raptor (vulture?) ~~4~~ overhead for 1 min.

## Site Information

Site Code:	P007	Observer:	Paul G.	GPS ID:	49
Date (yyyy-mm-dd):	2014-07-13	Latitude (dd):		Longitude (dd):	
Start Time:	11:40am	End Time:	2:37pm	WP	149
Temperature:		Wind Speed:		GPS Track:	2014-07-13-P007 49
Notes:					

## Detection Data

		Feces			Haypile							Animal				Audio
Species	WP	Color (G/B)	Sample (Y/N)	Coin/Vial	Dist Veg	Veg Type	Color (G/B)	Size (L)	Size (W)	Size (H)	Sample (Y/N)	Transect Bearing	Animal Bearing	Dist	Count	Y/N
Marmot	150											220	206	60	2	N
AGS	150															Y
Pika	151	B	Y	C	3	Dwarf Gr. - Casp	G+B	0.5	0.5	0.5	Y					
Marmot	151	G	Y	C												
Pika	152	B	N	-	15	Dwarf Gr. - Casp	B				N					
Pika	152															
Pika	153	B	N	-	15	Dwarf Gr. - Casp	G+B	0.1	0.1	0.1	N					
Pika	154	B	Y	C	3	"		12 in	5 in	1	Y					
Pika	155	B	N	-	NH	green, hut	large twigs & deep tunnels					38	76	47	1	Y
Pika	156	B	Y	C												
Pika	157	B	N	-	Deep	cracks so hard to know for sure										
Pika	158	B	N	-	thought seen (old one) 10 m away	Dwarf Gr.	B				N					
Pika	159	B	N	-	3	Dwarf Gr.	G+B	14"	6"	1"	Y	34	34	3m	1	N
Pika	160	B	N	-	6	"	B				N					
Pika	161	B	N	-	3	"	B				N					
Marmot	161	G	Y	C												

Species: pika, marmot, AGS, vole, bl. or br. bear, sheep, unknown; WP: waypoint; Color: G=green, B=brown; Sample: Collected Y/N; Coin/Vial: feces in coin envelope or 1.5ml vial; Dist Veg and Veg Type: distance to Viereck III vegetation types; L=length, W=width, H=height(cm) of haypiles; Transect Bearing: compass reading for path of travel; Animal Bearing: compass reading to animals; Dist=distance(m) to animals with rangefinder; Count: #of animals detected; Audio(Y/N): if you hear an animal's call on site (you may not see it or know how far away).

## Site Information

Snow: Yes  
 Flowers: Yes. Casp - white  
 -yellow  
 7. tallies on site: 12 %  
 stream, pond, : stream  
 Road through site

Notes:



## Collared Pika Surveys

## Detection Datasheet

Site Code: P007	Observer: JW	GPS ID: 45
Date (yyyy-mm-dd): 2018-07-13	Latitude (dd):	Longitude (dd):
Start Time: 11:35	End Time: 14:55	GPS Track: 2018-07-13 P007-045
Temperature: 51°F	Wind Speed: avg 2.4 mi/hr	Notes:

## Detection Data

Species		WP	Feces			Haypile							Animal				Audio
			Color (G/B)	Sample (Y/N)	Coin/Vial	Dist Veg	Veg Type	Color (G/B)	Size (L)	Size (W)	Size (H)	Sample (Y/N)	Transect Bearing	Animal Bearing	Dist	Count	Y/N
PIKA	036					8m	EDS/Grass	G+B			3cm	Y					
Plarm.	037		B	Y	C								22°	345°	10m	1	Y
PIKA	037																
PIKA	038		B	Y	C												
PIKA	039					8m	EDS	B				N					
PIKA	040					10m	EDS/Grass	B				N					
PIKA	041		B	Y	C												
Plarm.	042		B	Y	C												
HOMA	043		B	Y	C												
PIKA	044					5m	Moss	B				Y					
PIKA	045					10m	EDS	G+B				Y					
PIKA	046					5m	EDS	B				N					
PIKA	047					10m	EDS	B				N					
PIKA	048					2m	EDS	B				N					
AGS	049												42	71°	12m	1	N
UNK	050		B	Y	C												
PIKA	051					1m	EDS	B				N					

Species: pika, marmot, AGS, vole, bl. or br. bear, sheep, unknown; WP=waypoint; Color: G=green, B=brown; Sample: Collected Y/N; Coin/Vial: feces in coin envelope or 1.5ml vial; Dist Veg and Veg Type: distance to Vireck III vegetation types; L=length, W=width, H=height(cm) of haypiles; Transect Bearing: compass reading for path of travel; Animal Bearing: compass reading to animals; Dist=distance(m) to animals with rangefinder; Count=#of animals detected; audio(Y/N): if you hear an animal's call on site (you may not see it or know how far away).

Notes:

## Detection Datasheet

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## Collared Pika Surveys 2018

# Vegetation Plot Field Datasheet

\*reverse aspect pool from yesterday add 180°? took it facing up

## Site Information

Site Code: P007		Date (yyyy-mm-dd): 2018-07-13	Plot Size (m): 10 x 10	Plot Radius (m): 0.5
Latitude (dd):	Longitude (dd):	Slope (°): 25	Scope	Vascular: Highest cover
Survey Method: Visual Estimate	Elevation (m):	Aspect (°): 120		Non-vascular: none
Observer 2: RKAD, PS	Observer 1:	Cover Method: semi-quant		Lichen: none

## General Cover

**Instructions:** Absolute cover is measured independently of other layers. Absolute cover can/often will sum to values > 100%. Ground cover must sum to 100%. The substrate underneath moss, lichen, and biotic crusts is ignored for ground cover.

WP 043 Unit 33

Life Form	Absolute Cover	Height
Needleleaf	—	—
Broadleaf	—	—
Tall Shrub (> 1.5 m)	—	—
Low Shrub (0.2 - 1.5 m)	1	8 inches
Dwarf Shrub (< 0.2 m)	80	2 1/2 inches
Forb	2	
Ferns/Allies	< 1%	
Grass	2	
Rush	}	
Sedge	}	
Moss	88 40	
Lichen	25	

**Physiography:**

**Fine Geomorphology:**

**Vegetation Classification:**

Ground Form	Ground Cover
Litter	10
Biotic Crust	~~~~~
Bare Ground	<del>25</del> <1%
Rock	25
Moss	<del>25</del> 40
Lichen	25
Water	—

## Environmental Characteristics

Physiography: /	Strata: /
Fine Geomorphology: /	Disturbance Type: /
Vegetation Class: <i>ericaceous</i>	Disturbance: <i>small hikin</i>

dwarf

trail ~ 3m  
away

## Species Cover

Instructions: Each entity should be recorded at the finest taxonomic resolution possible. Use full names rather than codes or abbreviations. Cover values should be estimated based on absolute cover. Cover values can sum to greater than 100%.

[illegible]

# Collared Pika Surveys 2018

# Vegetation Plot Field Datasheet

## Site Information

Site Code: <u>P007</u>	Date (yyyy-mm-dd): <u>2018-07-13</u>	Plot Size (m): <u>10 x 10</u>	Plot Radius (m):
Latitude (dd):	Longitude (dd):	Slope (°): <u>35</u>	Scope
Survey Method: Visual Estimate	Elevation (m):	Aspect (°): <u>138</u>	
Observer 2:	Observer 1:	Cover Method: semi-quant	
			Vascular: Highest cover
			Non-vascular: none
			Lichen: none

AD, RK, JW, PS

## General Cover

Instructions: Absolute cover is measured independently of other layers. Absolute cover can/often will sum to values > 100%. Ground cover must sum to 100%. The substrate underneath moss, lichen, and biotic crusts is ignored for ground cover.

WP 044 Unit 33

Life Form	Absolute Cover	Height
Needleleaf	—	—
Broadleaf	—	—
Tall Shrub (> 1.5 m)	—	—
Low Shrub (0.2 - 1.5 m)	1	5 inches
Dwarf Shrub (< 0.2 m)	10	3 inches
Forb	2	
Ferns/Allies	—	
Grass	65	< 1/1' carex
Rush		
Sedge		
Moss	15	
Lichen	40	

Ground Form	Ground Cover
Litter	20
Biotic Crust	~~~~~
Bare Ground	
Rock	25
Moss	15
Lichen	40
Water	—

## Environmental Characteristics

Physiography:	Strata:
Fine Geomorphology:	Disturbance Type:
Vegetation Class: <u>dry</u>	Disturbance:

graminoid herb.

## Species Cover

Instructions: Each entity should be recorded at the finest taxonomic resolution possible. Use full names rather than codes or abbreviations. Cover values should be estimated based on absolute cover. Cover values can sum to greater than 100%.

Date (yyyy-mm-dd):	Observer 1:			Observer 2:			
Taxon	Cover	Height	Vouch.	Taxon	Cover	Height	Vouch.
Grass 002 ?			Y				
Grass 003 °			Y				
collected species.							
blue-green non-flowering							
Probably dominant?							
need to return @							
better time							
Grass 004			Y				
Grass 005			Y				

## Site Information

Jul. 13 2018

Site Code: P007	Date (yyyy-mm-dd):	Plot Size (m): 10 x 10	Plot Radius (m):
Latitude (dd):	Longitude (dd):	Slope (°): 40	Scope
Survey Method: Visual Estimate	Elevation (m):	Aspect (°): 118	
Observer 2:	Observer 1:	Cover Method: semi-quant	
			Vascular: Highest cover
			Non-vascular: none
			Lichen: none

AD, RK, JW, PS

## General Cover

Instructions: Absolute cover is measured independently of other layers. Absolute cover can/often will sum to values > 100%. Ground cover must sum to 100%. The substrate underneath moss, lichen, and biotic crusts is ignored for ground cover.

WP 045 unit 33

Life Form	Absolute Cover	Height
Needleleaf	—	—
Broadleaf	—	—
Tall Shrub (> 1.5 m)	—	—
Low Shrub (0.2 - 1.5 m)	90	14 in. (0.5m)
Dwarf Shrub (< 0.2 m)	7	3 1/2 in.
Forb		
Ferns/Allies	2	
Grass	3	
Rush		
Sedge		
Moss	45	
Lichen	1	

Ground Form	Ground Cover
Litter	45
Biotic Crust	—
Bare Ground	—
Rock	5
Moss	50
Lichen	1
Water	—

## Environmental Characteristics

Physiography:	Strata:
Fine Geomorphology:	Disturbance Type:
Vegetation Class:	Disturbance:

low shrub

## Species Cover

Instructions: Each entity should be recorded at the finest taxonomic resolution possible. Use full names rather than codes or abbreviations. Cover values should be estimated based on absolute cover. Cover values can sum to greater than 100%.

Date (yyyy-mm-dd):		Observer 1:		Observer 2:			
Taxon	Cover	Height	Vouch.	Taxon	Cover	Height	Vouch.
Salix sp. (LS002)	90		y				
not an obvious							
2nd/3rd dom.							
lupine, the							
rose, geranium...							
fireweed							
+ yellow unknown →			y (	FORB003)			
(collected, ~10%)				↳ Ranunculus			
	25			occidentalis			
DS002	7		y				

"rose" sanguisorba canadensis

→ Salix reticulata? yes!