

Location:	Co		Site:	Am	Date:	20250227			
Time:	1304		Observers:	Curious Skunk		Interval board SWE measurement			
Precip Rate	None	Very Light (0.5 cm / hr)	Light (1 cm / hr)	Moderate (5 cm / hr)	Heavy (10 cm / hr)	Depth (cm)	SWE (mm)	Density (kg/m³)	Evidence of melt loss? (Y/N)
Precip Type	Rain	Snow	Graupel	Hail	Rain/Snow	Sample A	48.2	97	201
Sky	Clear	Few (< 1/4 of sky)	Scattered (1/4-1/2 of sky)	Broken (> 1/2 of sky)	Overcast (complete cover)	Sample B	49.4	97.5	201
Wind	Calm (0 mph)	Light (1 - 16 mph)	Moderate (17 - 25 mph)	Strong (26 - 38 mph)	Extreme (> 38 mph)	Ground condition	Sample C	49.5	195
Tree Canopy	No trees	Sparse (5 - 20%)	Open (20 - 70%)	Closed (> 70%)	Ground roughness	Smooth (< 5 cm)	Rough (5 - 20 cm)	Rugged (> 20 cm)	N
Instrument	Y/N	SN	Instrument	Y/N	SN	Additional Comments		Height of Ground Vegetation (cm)	Deadfall
Digital LWC	N		Snow Scope	Y		Weather		10	
Stratigraphy pictures	Y		Lyte Probe	N					
Standard Ram	Y		SMP	N					
Powder Ram	Y		Force Ram	Y		Pit			
Slush Ram	N		Force Snow Scope	Y		Hardness			
HS Transects	Y		Snow Scope Transects	N					
Pit Pictures	Y		SSA / NIR Box	Y	101				
Other			Misc						
						145	0	54.6	26.6 44.5 29.2 48.5 27 43
								21.1	52.5 20.2 49 21 50.5

Location (Regional Scale)	Date (YYYYMMDD)	Observers (first initial & last name):		Comments/Notes:	
Site (Study Plot)	Time (pit opened)	Temperature profile times			
		START	END	1305	1340
AM	1304				
Pit ID SITEYYYYMMDD	Snow Depth (cm)	LWC Device & SN 20250227 141	JTIME	UTMN	Zone (two digit) 65
Am 20250227 141	5.22	6.15 1348	0426185	4412112	65
Stratigraphy					
Height above ground	Density profile A (kg/m <sup>3</sup> )	Density profile B (kg/m <sup>3</sup> )	Extra Density	Permittivity profile A (unitless)	Permittivity profile B (unitless)
top - bottom (cm)				(cm)	(cm)
11.9 - 5 - 140.8	1.8	1.5	1.39	144	-5
140.8 - 127.9	15	18.5	142	142	-5
127.9 - 112.2	15.6	35	22.9	110	-6
112.2 - 87.2	2.5	6.5	3.6	130	-9
87.2 - 66.4	20.8	61.5	19.6	120	-8.5
66.4 - 39.4	32	34.5	30.2	112	-6.5
39.4 - 12	17.4	47.5	27.3	110	-6
12 - 0	17	47.5	27.9	100	-5
141 - 131	12.7	12.5	14.6	90	-4.5
151 - 121	19.2	18.7	14.9	86	-4
121 - 111	21.9	21.7	16.3	80	-3.5
111 - 101	26.0	24.8	18.5	70	-3
101 - 91	25.4	24.9	16.6	62.5	-3
91 - 81	17.4	18.2	6.1	60.3	60
81 - 71	25.2	26.2	13.4	49.4	50
71 - 61	2.3	3.2	14.7	50.8	50
61 - 51	3.2	3.2	14.8	35	-1
51 - 41	2.4	2.5	13.2	41.0	30
41 - 31	27.2	27.2	36.2	30.4	20
31 - 21	25.8	25.3	35.1	42.9	10
21 - 11	28.8	28.8	13.5	19.2	0
11 - 0	26.4	26.0	33.8	31.6	-0.5

Location: C		Date: 10/25/02	Force	Depth	Depth			
X-Coord	Y-Coord	Time		max	manual	digital	Grnd	
0	30	1410	1400	146.5			Y	
30	40	1419	How Pass	75			N	
0	60	1432	SCOPE	30.8	130			
30		1438		131		145		
60		1438		132		146		
90		1438		133		139		
120		1439		134		139		
0	70	1441	1400	100.0	94	100	N	
30		1444		87	100			
60		1444		99	100			
90		1444		105	100			
120	V	1444		104	100			
0	120	1444	Scope	151	101.8	50	43.95	93
30		1444		104		39.95	93	93
60		1444		1020		31.75	93	91
90		1444		1021		32.70	93	91
120	V	1445		1022		30.80	93	97

**Ram Penetrometer Field Data Sheet**

Location:	Co				Tube weight	T	kg								
Site:	Am				Hammer weight	H	kg								
Associated pit/transect/point:	Am 202502				Number of falls	n									
Date:	202502				Fall height	f	cm								
Observer:	Emelie Skinner				Location of point	p	cm								
UTME:	UTMN:	Zone:		$RN = T + H + nfH/p$		kg									
Ram type:	STD / Pow	Ram mass:		kg	$RR = 9.81(T + H + nfH/p)$		N								
T	H	n	f	p	T	H	n	f	p	T	H	n	f	p	
2	0	0	0	26			1	5	26						23
2	0.5	0	0	26					27						24
	2	2	27				2	5	28			3	14	25	
	2	5	28						29			2	15	26	
	4	5	29						30						22
	2	10	30						31						23
		31							32						24
		32							33			3	15	20	
	2	10	33			1	3	34			2	20	31		
	4	10	34			2	3	35			3	24	32		
		35				5	3	36			2	20	33		
	4	20	36			3	5	37			3	20	34		
	2	20	37			1	5	37.5							35
		38.5				1	5	38			3	15	36		
	1	10	39			1	3	39							32
	3	10	40			4	5	40							33
		41				1	15	41			2	23	39		
	5	10	42						42			2	20	40	
	2	20	43			2	15	43							41
	1	20	44			1	20	45			3	24	42		
	2	15	45						45			2	20	43	
		46				2	20	46.5							44
		47													45
		48	0.1	0	0	0	8								46
		49	0.1	0.2	0	0	8								47
		50				1	1	10							48
		51						11							49
	2	20	52			2	1	12							50
	3	20	53			1	2	13							51
	2	25	54						14			3	20	52	
	1	25	55			2	2	15				3	25	53	
	2	25	56						16						54
	1	25	57			3	2	17			7	25	55		
		58				3	3	18							56
		59				3	5	19							57
		60				2	10	20							58
	1	15	72						21			1	25	59	
	1	10	75						22			2	20	60	

Notes:

## Ram Penetrometer Field Data Sheet

Location (regional scale)		Site (study plot)		Transects		Date	Time				
				A,B		20250227	Start	End			
Observer(s)		Wx Description									
Co		Am		A,B		20250227					
Erica Shannon		Clear light N6 None									
1226 Transect A 1236		1216 Transect B 1225									
Point	HS (cm)	Point	HS (cm)	Point	HS (cm)	Point	HS (cm)				
0	155	31	143	0	148	31	143				
1	157	32	184	1	150	32	142	146			
2	159	33	170	2	151	33	148				
3	170	34	172	3	151	34	142				
4	163	35	171	4	150	35	148				
5	164	36	165	5	156	36	156				
6	170	37	185	6	152	37	155				
7	169	38	187	7	153	38	156				
8	171	39	185	8	153	39	160				
9	189	40	186	9	145	40	165				
10	183	41	187	10	154	41	158				
11	191	42		11	149	42					
12	190	43		12	154	43					
13	194	44		13	152	44					
14	183	45		14	154	45					
15	185	46		15	153	46					
16	188	47		16	149	47					
17	169	48		17	147	48					
18	180	49		18	149	49					
19	186	50		19	144	50					
20	184	51		20	142	51					
21	179	52		21	140	52					
22	191	53		22	139	53					
23	188	54		23	139	54					
24	191	55		24	138	55					
25	181	56		25	141	56					
26	205	57		26	144	57					
27	207	58		27	142	58					
28	213	59		28	142	59					
29	210	60		29	143	60					
30	202			30	143						