

Location:	<i>C6</i>	Site:	<i>SPRINTER</i>	Date:	<i>20250312</i>				
Time:	<i>1625</i>	Observers:	<i>Swanson Skinner</i>	Interval board SWE measurement					
Precip Rate	<i>None</i>	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 resulting in SWE loss? (Y/N)
Precip Type	Rain	Snow	Graupel	Hail	Rain/Snow	Sample A	Sample B	Sample C	<i>Y</i>
Sky	Clear	Few <td>Scattered (1/4-1/2 of sky)</td> <td>Broken<br (>="" 1="" 2="" of="" sky)<="" td=""/><td>Overscast (complete cover)</td><th>Ground condition</th><th>Frozen</th><th>Moist<br (<="" 5="" cm)<="" th=""/><th>Saturated</th></th></td>	Scattered (1/4-1/2 of sky)	Broken <td>Overscast (complete cover)</td> <th>Ground condition</th> <th>Frozen</th> <th>Moist<br (<="" 5="" cm)<="" th=""/><th>Saturated</th></th>	Overscast (complete cover)	Ground condition	Frozen	Moist <th>Saturated</th>	Saturated
Wind	Calm (0 mph)	<i>Light</i> (1 - 16 mph)	Moderate (17 - 25 mph)	Strong (26 - 38 mph)	Extreme <th>Ground roughness</th> <th>Rough (5 - 20 cm)</th> <th>Rugged<br (>="" 20="" cm)<="" th=""/><th>-</th></th>	Ground roughness	Rough (5 - 20 cm)	Rugged <th>-</th>	-
Tree Canopy	<i>No trees</i>	Sparse (5 - 20%)	Open (20 - 70%)	Closed <th>Ground Vegetation</th> <td>Bare</td> <td><i>Grass</i></td> <td>Shrub</td> <td>Deadfall</td>	Ground Vegetation	Bare	<i>Grass</i>	Shrub	Deadfall
Instrument	Y/N	SN	Instrument	Y/N	SN	Additional Comments		Height of Ground Vegetation (cm)	5
Digital LWC	<i>Y</i>		Snow Scope	<i>Y</i>	<i>308</i>	Weather			
Stratigraphy pictures	<i>Y</i>		Lyte Probe	<i>N</i>					
Standard ram	<i>Y</i>		SMP	<i>N</i>		<i>Pools & columns of water 3 crusts/ice layers with significant frozen pools</i>			
Powder Ram	<i>Y</i>		Force Ram	<i>Y</i>					
Slush Ram	<i>N</i>		Force Snow Scope	<i>Y</i>					
HS Transects	<i>Y</i>		Snow Scope Transects	<i>N</i>					
Pit Pictures	<i>Y</i>		SSA / NIR Box	<i>Y</i>	<i>161</i>	<i>HS stake 8' from</i>			
Other			Misc						

Location (Regional Scale)	Date (MMYYMMDD)	Observers (first initial & last name):	Comments/Notes:													
Site (Study Plot) Tanner	2020-13	Temperature profile times														
		START	END													
Pit ID SITEYYMMDD	Snow Depth (cm)	LWC Device & SN 101 150-2011	UTME UTMN 0424548 4417701 13 Ground Cover													
Density	LWC	Temperature	Stratigraphy													
Height above ground	Density profile A kg/m ³	Density profile B kg/m ³	Permittivity profile A (unitless)	Permittivity profile B (unitless)	Height above ground (cm)	T oC	Height above ground (cm)	Grain Size (mm)	Grain Type	Hand Hardness	Manual Wetness	Stratigraphy Comments				
top - bottom (cm)					top - bottom (cm)	Max	Min	Avg								
85 - 25	296	305	1.98	1.84	85	-0.5	85	81	2	0.5	1	MFSI	F	W 3 + 5 (250)		
75 - 65	282	294	1.69	1.62	80	-1	77	-1	81	-77	2	0.5	1	MFCR	K	M 4.2 15 (357)
65 - 55	304	305	1.69	1.62	77	-1	69	-1	69	-77	2	0.5	1	MFCR	K	M 7.6 14.5 (283)
55 - 45	303	277	1.48	1.54	69	-1	77	1	69	-69	1	0.3	0.8	MFC	IF	M
45 - 35	276	261	1.50	1.49	69	-2.5	77	1	69	-69	1	0.3	0.8	MFC	IF	M
35 - 25	258	267	1.45	1.41	60	-3.5	77	1	69	-69	1	0.3	0.8	MFC	IF	M
25 - 15	239	225	1.38	1.39	53	-3.5	69	-69	69	-69	1	0.3	0.8	MFC	IF	D
15 - 05	244	243	1.45	1.44	50	-3.5	40	-2.5	67	-53	1	0.3	0.3	MFC	IF	D
-	-	-	-	-	30	-2	30	-2	30	-2	1	0.3	0.3	MFC	IF	D
-	-	-	-	-	23	-1.5	53	-50	53	-50	1	0.3	0.3	MFC	IF	D
-	-	-	-	-	20	-1.5	50	-23	50	-23	1	0.5	1	MFC	F	D
-	-	-	-	-	10	-1	50	-23	50	-23	1	0.5	1	MFC	F	D
-	-	-	-	-	0	-0.5	23	-0	23	-0	1	0.5	1	MFC	F	D
-	-	-	-	-	23	0	3	1	2	DHR	F	D	23.8 (221)	52.5	-	

Ram Penetrometer Field Data Sheet

Location: 6								Tube weight	T	kg				
Site: SPLURST								Hammer weight	H	kg				
Associated pit/transect/point: SPLURST 20250313								Number of falls	n					
Date: 20250313 Time: 1728 / 1733								Fall height	f	cm				
Observer: LUCAS 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
1	0	0	0	7	0.1	0	0	0	3			1	5	48
1	0.5	0	0	7	0.1	0.2	0	0	3					49
	1	5	8				1	5	6			2	5	50
		9					3	5	7			1	5	51.5
		18					4	15	8					52
		19					1	20	9					53
	5	5	20						12			2	5	54.5
	2	10	21				1	10	14			1	5	55.5
	3	5	22						15					56.5
	3	10	23						16					57
	1	10	24						17					58
	3	10	25				2	10	18					59
	1	10	26						19					60
	2	10	27				1	20	20					61
	3	10	28						21					62
	2	20	29						22					63
	1	20	30				2	20	23					65
		31					1	25	24			1	3	66
		32							25					67
		33							26					68
	2	10	34				2	25	27					69
	3	10	35						28					70
	2	20	36						29					71
	1	20	37				1	25	30					72
	1	20	38						31					73
		87							32			2	3	74
	1	10	88				2	25	33			2	5	75
							3	25	34					
									35					
							1	25	36					
							1	20	38					
							1	15	40					
							1	10	42					
							1	5	43					
									44					
									45					
									46					
									25	47				

Notes:

Location: C6

Site: SPURS

Date: 20250313

Time: 1718

Pit: SPURS 20250313

Observers: Mike, Skinner

Force

max

Depth

manual

Depth

digital

Grnd

X-Coord

Y-Coord

Time

Data Type

SN

Profile #

Force Gage

Y/N

Comments

0 30 1728 S-TD Plan

75 Y

30 60 1733 Low Prof

86 N

0 60 1738 Scope

76 Y

30 1759 708 209

87

70 1740 212

76

120 1740 214

89

0 50 1742 Force Plan

81

30 1742 1600 87

83

60 1742 92 90

80

80 1742 111

80

120 1742 109

80

0 1744 99 92

72

30 1744 46

75

60 1744 1380

75

20 1744 1382

70

120 1744 1393

75

0 1744 55

61

30 1744 75

61

60 1744 75

61

20 1744 75

61

120 1744 75

61

Location (regional scale)		Site (study plot)		Transects		Date	Time	
							Start	End
Observer(s)						Wx Description		
<i>Co</i>		<i>TPLMST</i>		<i>TPLA</i>		20250313	1809	1824
<i>Enclos Skinner</i>		<i>BKN (alm No None</i>						
1809 Transect A 1824		Transect B						
Point	HS (cm)	Point	HS (cm)	Point	HS (cm)	Point	HS (cm)	
0	104	31	100	0	85	31		
1	106	32	92	1	84	32		
2	107	33	92	2	99	33		
3	77	34	91	3	105	34		
4	106	35	95	4	80	35		
5	98	36	96	5	93	36		
6	95	37	103	6	88	37		
7	95	38	88	7	91	38		
8	80	39	96	8	103	39		
9	103	40	94	9	102	40		
10	100	41	100	10	104	41		
11	96	42	103	11	85	42		
12	77	43	104	12	55	43		
13	100	44	100	13	69	44		
14	85	45	100	14	95	45		
15	81	46	102	15	95	46		
16	84	47	100	16	105	47		
17	99	48	101	17	68	48		
18	101	49	106	18	74	49		
19	95	50	100	19		50		
20	77	51	99	20		51		
21	88	52	90	21		52		
22	90	53	82	22		53		
23	83	54	88	23		54		
24	92	55	100	24		55		
25	73	56	97	25		56		
26	92	57	99	26		57		
27	99	58	99	27		58		
28	101	59	50	28		59		
29	83	60	48	29		60		
30	89		89	30				

Location (regional scale)		Site (study plot)		Transects		Date	Time			
Co		JPLWGST		APR. 2		20250313	Start	End		
Observer(s)		Wx Description								
Erica Skenney		BZN Chain N. None								
1802 Transect A 1808		1803 Transect B 1805								
Point	HS (cm)	Point	HS (cm)	Point	HS (cm)	Point	HS (cm)			
0	92	31		0	0	31				
1	98	32		1	58	32				
2	97	33		2	86	33				
3	92	34		3	79	34				
4	93	35		4	77	35				
5	92	36		5	86	36				
6	95	37		6	85	37				
7	95	38		7	82	38				
8	92	39		8	74	39				
9	97	40		9A	53	40				
10	97	41		10 ^B	56	41				
11	88	42		11 ^C	3045	42				
12	95	43		12 ^D	35	43				
13	95	44		13 ^E	66	44				
14	94	45		14 ^F	77	45				
15	96	46		15 ^G	48	46				
16	80	47		16 ^H	58	47				
17	91	48		17 ^I	60	48				
18	88	49		18 ^J	50	49				
19	95	50		19		50				
20	99	51		20		51				
21	92	52		21		52				
22		53		22		53				
23		54		23		54				
24		55		24		55				
25		56		25		56				
26		57		26		57				
27		58		27		58				
28		59		28		59				
29		60		29		60				
30				30						

Location (regional scale)		Site (study plot)		Transects		Date	Time			
				RUDARLZ		20250313	Start	End		
Observer(s)		Wx Description								
Eugene Skinner		BKN Calm V, Nove								
1758 Transect A 1759		1866 Transect B 1862								
Point	HS (cm)	Point	HS (cm)	Point	HS (cm)	Point	HS (cm)			
0	87	31		0	87	31				
1	90	32		1	98	32				
2	86	33		2	95	33				
3	88	34		3	95	34				
4	90	35		4	90	35				
5	90	36		5	94	36				
6	89	37		6	95	37				
7	90	38		7	93	38				
8	88	39		8	96	39				
9	85	40		9	98	40				
10	90	41		10	90	41				
11	82	42		11	96	42				
12	93	43		12	99	43				
13	89	44		13	98	44				
14	86	45		14	96	45				
15	84	46		15	89	46				
16		47		16	95	47				
17		48		17	89	48				
18		49		18	89	49				
19		50		19		50				
20		51		20		51				
21		52		21		52				
22		53		22		53				
23		54		23		54				
24		55		24		55				
25		56		25		56				
26		57		26		57				
27		58		27		58				
28		59		28		59				
29		60		29		60				
30				30						

