Location:	CO	Site:	CLPX FDA16	Date:	20250213
Time:	0935	Observers:	S. Kinney E McCue		

Precip Rate	None	Very Light (0.5 cm / hr)	Light (1 cm / hr)	Moderate (5 cm / hr)	Heavy (10 cm / hr)
Precip Type	Rain	Snow	Graupel	Hail	Rain/Snow
Sky	Clear	Few (< 1/4 of sky)	Scattered (1/4-1/2 of sky)	Broken (> 1/2 of sky)	Overcast (complete cover)
Wind	Calm (0 mph)	Light (1 - 16 mph)	Moderate (17 - 25mph)	Strong (26 - 38 mph)	Extereme (> 38 mph)
Tree Canopy	No trees	Sparse (5 - 20%)	Open (20 - 70%)	Closed (> 70%)	

Instrument	Y/N	SN	Instrument	Y/N	SN
Digital LWC	Y		Snow Scope	Y	151
Stratigraphy pictures	Y		Lyte Probe	N	
Standard ram	Y		SMP	N	
Powder Ram	N		Force Ram	Y	
Slush Ram	N		Force Snow Scope	N	
HS Transects	N		Snow Scope Transects	N	
Pit Pictures	N		SSA / NIR Box	Y	101
Other					

Interval board SWE measurement

	Depth (cm)	SWE (mm)	Density (kg/m3)	Evidence of melt resulting in SWE loss? (Y/N)
Sample A				
Sample B				
Sample C				

Ground condition	Frozen	Moist	Saturated	
Ground roughness	Smooth (< 5 cm)	Rough (5 - 20 cm)	Rugged (> 20 cm)	
Ground Vegetation	Bare	Grass	Shrub	Deadfall
Height of Ground Vegetation (cm)		20		

Additional Comments

Weather: Mod Gusts

Pit

Hardness

Misc

Location (Regional Scale)	Date (YYYYMMD)	Observers (first initial & last name):	Comments/Notes:
CO	20150213	E. McCue S. Kinney	

Site (Study Plot)	Time (pit opened)	Temperature profile times START	END
CLPX	0935	0938	1015

Pit ID SITEYYYYMMDD	Snow Depth (cm)	LWC Device & SN	UTME	UTMN	Zone (two digit)	GPS device & uncertainty:
FAD16_20150213	117	0101 527 2's 1017	0426777	4411291	13	665 +/- 2m

Density

Height above ground top (cm) - bottom (cm)	Density profile A kg/m3	Density profile B kg/m3	Extra Density kg/m3
105.4 - 86.6	18.8	71	378
86.6 - 84.6	2	5.5	275
84.6 - 80.6	4	16.5	413
80.6 - 51.6	29	98.5	340
51.6 - 28.4	23.2	93.5	403
28.4 - 0	28.4	87	306
-			
117 - 107	410	430	
107 - 97	377	371	
97 - 87	351	391	
87 - 77	341	327	
77 - 67	319	318	
67 - 57	330	333	
57 - 47	392	381	
47 - 37	406	398	
37 - 27	307	331	270
27 - 17	317	304	
17 - 07	300	292	
12 - 02	296	256	=(5)
-			
-			
-			
-			
-			

LWC

Permittivity profile A (unitless)	Permittivity profile B (unitless)
66.7	73.2
74.2	74.7
74.8	75.9
71.5	77.6
61.7	64.1
54.9	48.3
47.5	46.6
52.1	54.1
50	52.1
32.8	35.3
41.0	38.1
30.6	35.6
37.9	39.9

Temperature

Height above ground (cm)	T oC
111.5	-17.5
110	-21
100	-18.5
95	-16
91.5	-14
90	-13.5
88	-12.5
80	-10.5
70	-8
60	-7
58	-7
50	-6.5
40	-5
35	-4.5
30	-4
20	-3.5
10	-3
0	-1.5

Stratigraphy

Height above ground top (cm)	-	bottom (cm)	Grain Size (mm) Max	Min	Avg	Grain Type	Hand Hardness	Manual Wetness	Stratigraphy Comments
111.5	-	95	1	0.3	0.5	RG$_{wp}$	K	D	
95	-	91.5	1.5	0.5	1	RG$_{xf}$	1F	D	
91.5	-	88	1.5	0.5	1	RG$_{xf}$	4F	D	
88	-	58	2	0.5	1	FC$_{xr}$	P	D	
58	-	35	2	0.5	1	FC$_{xr}$	K	D	
35	-	0	3	0.5	1	DH$_{xr}$	P	D	DH ch
	-								
	-								
	-								
	-								
	-								
	-								

Location: CO | Date: 20250213
Site: CLPX | Time: 1050
Pit: FDA16 20250213 | Observers: E. McCue, S. Skiles

X-Coord	Y-Coord	Time	Data Type	SN	Profile #	Force Gage	Force max N	Depth manual cm	Depth digital cm	Grnd Y/N	Comments
0	30	1050	STP					123.5		Y	
30	60	1116	SnowScope	1511	916			124	113	Y	Removed 25cm crust
30	↓	1116	↓	↓	917			112	107	↓	towards E
60	↓	1117	↓	↓	919			94	92	↓	↓
90	↓	1117	↓	↓	920			94	93	↓	↓
120	↓	1119	↓	↓	923			95	94	↓	↓
0	90	1120	FRAM			1000	336	95		N	
30	↓	1121	↓			↓	340	100		↓	
60	↓	1121	↓			↓	340	100		↓	
90	↓	1121	↓			↓	479	100		↓	
120	↓	1121	↓			↓	353	100		↓	
0	120	1129	Fscope	151	925	↓	39	186	89	↓	30 cm crust Barrele Towards
30	↓	1130		↓	927	↓	71	95	97	↓	
60	↓	1131		↓	929	↓	74	95	94	↓	
90	↓	1131		↓	930	↓	56	92	91	↓	
120	↓	1132		↓	931	↓	58	90	91	↓	

Ram Penetrometer Field Data Sheet

Location: LO
Site: CLPX
Associated pit/transect/point: FDA1620250213
Date: 20250213 Time: 1050
Observer: Melve Sikinney
UTME: UTMN: Zone:
Ram type: Ram mass: kg

Tube weight	T	kg
Hammer weight	H	kg
Number of falls	n	
Fall height	f	cm
Location of point	p	cm
RN = T + H + nfH/p		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	9			1	20	48			2	50	86
2	1	0	0	9					MR					87
		1	20	10					50					88
		3	20	11					51			1	50	89
		5	25	12			2	20	52			2	50	90
		3	30	13					53			1	50	91
				14			1	20	54			2	50	92
				15			2	20	55			1	50	93
				16			3	20	56					94
		2	30	17			2	30	57					95
				18			1	30	58			2	50	96
				19			2	30	59			1	50	97
		3	30	20			1	30	60					98
		2	30	21					61			1	50	104
		2	30	22.5					62			1	20	105
		1	30	23					63			2	20	106
				24					64.5			1	25	107
				25			1	20	65					108
		3	15	26			5	20	66					109
		2	5	27			4	40	67					110
		3	1	28			3	50	68					111
		2	2	29			3	60	69					112
		1	2	30.5			2	60	70			1	15	113
2	0.5	2	5	32					71			1	15	114
		4	5	33					72			2	15	115
		3	10	34					73					116
		4	20	35					74					117
		3	20	36					75					118
		2	30	37					76					119
				38.5					77			1	15	120
		1	30	40					78.5			2	15	121
		2	20	41			1	30	79					122
		1	20	42			2	20	80					123
				43					81			1	15	124
		2	20	44					82					125
				45			3	30	83			2	15	126
		1	20	46					84			1	15	127
				47			3	40	85			1	15	128

Notes:

Ram Penetrometer Field Data Sheet

Location:		Tube weight	T	kg
Site:		Hammer weight	H	kg
Associated pit/transect/point:		Number of falls	n	
Date:	Time:	Fall height	f	cm
Observer:		Location of point	p	cm
UTME:	UTMN: Zone:	$RN = T + H + nfH/p$		kg
Ram type:	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	15	129										
		2	15	130										
				131										
				172										
				132.5										
		1	60	133										
		2	60	133.5										

Notes: