Location (Regional Scale)	Date (YYYYMMD)	Observers (first initial & last name):				Comments/Notes:
CO	20250204	S. Kinney C. McCue			Temperature profile times: START 1430, END 1444	
Site (Study Plot)	Time (pit opened)					
FEFHQ	1425					

Pit ID SITEYYYYMMDD	Snow Depth (cm)	LWC Device & SN	UTME	UTMN	Zone (two digit)	GPS device & uncertainty:
FEFHQ20250204	69	0101 250K 528 1453 415	0424431	4417567	13	GARMIN GPS 4m

Density

Height above ground top (cm)	bottom (cm)	Density profile A kg/m3	Density profile B kg/m3	Extra Density kg/m3
64.6	59.8	4.8	10.5	218.8
59.8	53.6	6.2	17	193.6
53.6	31.4	22.2	52.5	236.5
31.4	4.6	26.8	60.5	225.7
4.6	0	4.6	11.5	250
-				
69	59	214	231	
59	49	222	217	
49	39	247	241	
39	29	247	228	
29	19	233	227	
19	09	259	236	
12	02	244	232	(4) ?
-				
-				
-				
-				
-				
-				
-				
-				
-				
-				

LWC

Permittivity profile A (unitless)	Permittivity profile B (unitless)
51.2	51.0
70.3	72.0
62.7	64.5
66.1	60.4
54.9	53.1
46.7	44.5
47.5	33.2
48.3	48.1

Temperature

Height above ground (cm)	T oC
67	0.5
64	0
60	0
56	-0.5
50	-1.5
40	-1.5
34	-1
30	-1
20	-0.5
10	-0.5
5	-0.5
0	0

Stratigraphy

Height above ground top (cm)	bottom (cm)	Grain Size (mm) Max	Min	Avg	Grain Type	Hand Hardness	Manual Wetness	Stratigraphy Comments
67	64	2	0.5	1	MFcl	1F	M	-
64	56	1.5	0.5	1	MFcl	F	M	-
56	34	1	0.3	0.5	RGlc	F	M	-
34	5	2	0.5	1	DHxr	F	M	-
5	0	6	1	2	DHxr	1F	M	-
	-							
	-							
	-							
	-							
	-							
	-							
	-							

Location:	CB	Site:	FEF HQ	Date:	20220204
Time:	1425	Observers:	Eric Cg Skinner		

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 - 15 mph)	Moderate (17 - 25mph)	Strong (26 - 38 mph)	Extereme (> 38 mph)
Tree Canopy	No trees	Sparse (5 - 20%)	Open (20 - 70%)	Closed (> 70%)	

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)			10	

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

Additional Comments

Weather

Pit

CTN BRK
LTI8SC @ 20↑
ECTN 19 @ 38↑

Hardness

Misc

HS @ stake 66cm

Ram Penetrometer Field Data Sheet

Location: C6

Site: FEFHQ

Associated pit/transect/point: FEFHQ 20250204

Date: 20250204 Time: 1512 | 1514

Observer: EricCG SKWNKEY

UTME: UTMN: Zone: 13

Ram type: POW/STD 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
1	0	0	0	69			1	10	35					
1	0.5	0	0	69			3	10	36					
		3	5	70			2	10	37					
		4	5	71			1	10	38					
									39.5					
0.1	0	0	0	3			1	5	40					
0.1	0.1	0	0	3					41					
		1	5	4					42					
		1	5	5			2	5	43					
				6					44					
		2	5	7			1	5	45					
		3	5	8					46					
		1	10	9.5			2	5	47					
		1	5	10					48					
				11					49					
		2	5	12					50					
				13.5			3	5	51					
		1	5	14			2	10	52					
				15			1	10	53					
		2	5	16			2	10	54					
				17					55					
		1	5	18			1	10	56					
		2	5	19					57					
		1	10	20			2	10	58					
				21			1	5	59					
				22			2	5	60					
				23					61					
		2	10	24.5					62					
		1	10	25.5					63					
				26.5					64					
				27.5			4	5	65					
		1	5	28			1	15	66					
		3	5	29			2	15	67					
		2	15	30.5			1	15	68					
		1	10	31					69					
				32			2	15	70					
				33			3	20	71					
				34			5	70	72					

Notes:

Location: CO			Date: 20250204								
Site: FEFHQ			Time: 1512				Force	Depth	Depth		
Pit: FEFHQ20250204			Observers: Eric Skinner				max	manual	digital	Grnd	
X-Coord	Y-Coord	Time	Data Type	SN	Profile #	Force Gage	N	cm	cm	Y/N	Comments
0	30	1512	SnowPack					71		Y	
30	↓	1514	SnowPack					72		↓	
0	60	1523	Scope	234	1286			71	142	Y	
30	↓	1525	↓	151	871			73	61	Y	
60											
90											
120	↓		↓								
0	90	1531	Force Pen			50N	←	13.75	62		
30	↓	1531	↓			↓	←	21.5	65		
60	↓	1531	↓			↓	←	19.95	62		
90	↓	1532	↓			↓	←	15.1	63		
120	↓	1532	↓			↓	←	18.75	66		
0	120		Force Scope			↓					
30	↓		↓			↓					
60	↓		↓			↓					
90	↓		↓			↓					
120	↓		↓			↓					