

| Location: | | Site: | FST | Date: | 2024/11/22 | | | | | |
|-----------------------|-----------------|--|---|--|--|---------------------|------------------|----------------------------------|---|--|
| Time: | 11:30 | Observers: | SKUNNEV Smelius | 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 resulting in SWE loss? (Y/N) | |
| Precip Type | Rain | Snow | Graupel | Hail | Rain/Snow | Sample A | 35 | 70 | | |
| Sky | Clear | Few <td>Scattered<br (>="" -="" 1="" 2="" 4="" of="" sky)<="" td=""/><td>Broken<br (>="" 1="" 2="" of="" sky)<="" td=""/><td>Overcast (complete cover)</td><th>Sample B</th><td>35</td><td>72</td><td></td></td></td> | Scattered <td>Broken<br (>="" 1="" 2="" of="" sky)<="" td=""/><td>Overcast (complete cover)</td><th>Sample B</th><td>35</td><td>72</td><td></td></td> | Broken <td>Overcast (complete cover)</td> <th>Sample B</th> <td>35</td> <td>72</td> <td></td> | Overcast (complete cover) | Sample B | 35 | 72 | | |
| Wind | Calm (0 mph) | Light (1 - 16 mph) | Moderate (17 - 25 mph) | Strong (26 - 38 mph) | Extreme <th>Sample C</th> <td>34</td> <td>72</td> <td></td> | Sample C | 34 | 72 | | |
| Tree Canopy | No trees | Sparse (5 - 20%) | Open (20 - 70%) | Closed <td>Ground Vegetation</td> <th>Ground condition</th> <td>Smooth<br (<="" 3="" mm)<br=""/>Frozen</td> <td>Rough (5 - 20 cm)</td> <td>Rugged<br (>="" 20="" cm)<="" td=""/></td> | Ground Vegetation | Ground condition | Smooth Frozen | Rough (5 - 20 cm) | Rugged | |
| Instrument | Y/N | SN | Instrument | Y/N | SN | Additional Comments | | Height of Ground Vegetation (cm) | Misc | |
| Digital LWC | N | | Snow Scope | Y | | Weather | | 10cm | Clawed Radroneer @ 1050 | |
| Stratigraphy pictures | V | | Lyte Probe | N | | | | | | |
| Standard ram | Y | | SMP | N | | HS 47cm @ Strike | | Pit | Shrub Deadfall | |
| Powder Ram | Y | | Force Ram | Y | | | | | | |
| Slush Ram | N | | Force Snow Scope | Y | | Hardness | | Misc | Other | |
| HS Transects | Y | | Snow Scope Transects | N | | | | | | |
| Pit Pictures | Y | | SSA / NIR Box | N | | | | | | |
| Other | | | | | | | | | | |

| Location: | Date: 2024/12/2 | | | | | | | | | | |
|-----------|-----------------|------|-----------|----|-----------|------------|------------|-------------|-------------|-------------|----------|
| Site: | Time: 17:15 | | | | | | | | | | |
| Pt: | Observers: | | | | | | | | | | |
| X-Coord | Y-Coord | Time | Data Type | SN | Profile # | Force Gage | Force N | Depth cm | Depth cm | Grnd Y/N | Comments |

| | | | | | | | | | | | |
|----|----|----------|------------|------|----|---------|-----|----|--|---|--|
| 15 | 15 | 17:21 | Force Gage | 234 | 3 | max | 49 | | | Y | |
| 30 | 45 | 17:22 | Force Gage | 234 | 5 | manual | 49 | | | N | |
| 45 | 45 | 17:23 | Force Gage | 234 | 7 | digital | 485 | | | N | |
| 60 | 45 | 17:23 | Force Gage | 234 | 8 | | 48 | | | N | |
| 75 | 45 | 17:24 | Force Gage | 234 | 10 | | 49 | | | N | |
| 15 | 60 | 17:26 | Force Gage | 234 | 11 | | 14 | 34 | | N | |
| 30 | 60 | 17:27 | Force Gage | 234 | 12 | | 11 | 28 | | N | |
| 45 | 60 | 17:27 | Force Gage | 234 | 13 | | 7 | 14 | | N | |
| 60 | 60 | 17:27 | Force Gage | 234 | 14 | | 10 | 12 | | N | |
| 75 | 60 | 17:28 | Force Gage | 234 | 15 | | 9 | 12 | | N | |
| 15 | 15 | Raw Data | | 50.5 | | | | | | | |
| 30 | 15 | STD Run | | 48 | | | | | | | |

Ram Penetrometer Field Data Sheet

| | | | |
|--|--------------------|-----------|----|
| Location: CO | Tube weight | T | kg |
| Site: POOL SNORT | Hammer weight | H | kg |
| Associated pit/transect/point: FROZEN 1/22 | Number of falls | n | |
| Date: 2024/1/22 | Fall height | f | cm |
| Observer: MICHAEL KINNEY Cider | Location of point | p | cm |
| UTME: SAME AS PIT UTMN: | RN = T + H + nfH/p | kg | |
| Ram type: POWDER S | Ram mass: | kg | |
| T H n f p | T H n f p | T H n f p | |
| <u>POWDER</u> | <u>STD</u> | | |
| 0.1 0 0 0 0 | 1.0 0 0 0 0 | 46.5 | |
| 0.1 0.05 0 0 0 | 1.0 0.5 0 0 0 | 46.5 | |
| 1 1 11.5 | 1 1 11 | 50 | |
| 2 1 13 | 3 1 13.5 | 50.5 | |
| 3 1 14.5 | 1 5 15 | 51 | |
| 4 1 15.5 | | | |
| 2 2 17 | 1 0 0 0 0 | 48 | |
| 3 2 18 | 1 0.5 0 0 0 | 48 | |
| 3 3 19.5 | | | |
| 4 3 20.5 | | | |
| 4 4 22 | | | |
| 4 5 23.5 | | | |
| 5 5 25 | | | |
| 2 10 26 | | | |
| 2 16 27 | | | |
| 2 10 28.5 | | | |
| 2 15 29.5 | | | |
| 1 20 30.5 | | | |
| 2 20 32.5 | | | |
| 2 20 34 | | | |
| 2 20 35 | | | |
| 2 20 37 | | | |
| 2 20 38.5 | | | |
| 1 20 40 | | | |
| 2 15 41.5 | | | |
| 2 15 42.5 | | | |
| 2 15 43.5 | | | |
| 3 10 45 | | | |
| 3 10 46 | | | |
| 3 10 47.5 | | | |
| 1 10 48 | | | |
| 3 5 49.5 | | | |
| 2 5 50 | | | |
| 4 5 50.5 | | | |

Notes: FIRST STD Ram PROFILE MAY HAVE LITTLE USE

| Location (regional scale) | | Site (study plot) | | Transects | | Date | Time | | | |
|---------------------------|---------|----------------------|---------|------------|---------|-------|---------|-----|--|--|
| CO | | FST | | A, B | | 2024 | Start | End | | |
| Observer(s) | | Wx Description | | | | | | | | |
| SKINNEY EMCCUZ | | SCT, LIGHT, NO, NONG | | | | | | | | |
| Transect A | | | | Transect B | | | | | | |
| Point | HS (cm) | Point | HS (cm) | Point | HS (cm) | Point | HS (cm) | | | |
| 0 | 49 | 31 | | 0 | 33 | 31 | 33 | | | |
| 1 | 49 | 32 | | 1 | 38 | 32 | 38 | | | |
| 2 | 50 | 33 | | 2 | 42 | 33 | 40 | | | |
| 3 | 47 | 34 | | 3 | 40 | 34 | 35 | | | |
| 4 | 47 | 35 | | 4 | 35 | 35 | 34 | | | |
| 5 | 50 | 36 | | 5 | 35 | 36 | 30 | | | |
| 6 | 46 | 37 | | 6 | 29 | 37 | 29 | | | |
| 7 | 49 | 38 | | 7 | 25 | 38 | 26 | | | |
| 8 | 49 | 39 | | 8 | 31 | 39 | 47 | | | |
| 9 | 46 | 40 | | 9 | 29 | 40 | | | | |
| 10 | 48 | 41 | | 10 | 30 | 41 | | | | |
| 11 | 46 | 42 | | 11 | 30 | 42 | | | | |
| 12 | 46 | 43 | | 12 | 38 | 43 | | | | |
| 13 | 47 | 44 | | 13 | 34 | 44 | | | | |
| 14 | 41 | 45 | | 14 | 32 | 45 | | | | |
| 15 | 39 | 46 | | 15 | 32 | 46 | | | | |
| 16 | 43 | 47 | | 16 | 34 | 47 | | | | |
| 17 | 37 | 48 | | 17 | 37 | 48 | | | | |
| 18 | 29 | 49 | | 18 | 39 | 49 | | | | |
| 19 | 27 | 50 | | 19 | 39 | 50 | | | | |
| 20 | 29 | 51 | | 20 | 39 | 51 | | | | |
| 21 | 32 | 52 | | 21 | 44 | 52 | | | | |
| 22 | 30 | 53 | | 22 | 36 | 53 | | | | |
| 23 | 33 | 54 | | 23 | 38 | 54 | | | | |
| 24 | 33 | 55 | | 24 | 31 | 55 | | | | |
| 25 | 37 | 56 | | 25 | 35 | 56 | | | | |
| 26 | 40 | 57 | | 26 | 29 | 57 | | | | |
| 27 | 36 | 58 | | 27 | 24 | 58 | | | | |
| 28 | | 59 | | 28 | 24 | 59 | | | | |
| 29 | | 60 | | 29 | 25 | 60 | | | | |
| 30 | | | | 30 | 23 | | | | | |