

Measurement	Instrument	Key instrument specifications
Total snow depth	Ultrasonic Judd depth sensor	Target to bare ground distance: 619 cm Relative accuracy $\pm 0.4\%$, thus 2.5 cm accuracy at worst 22° beam width, footprint size 236 cm at most
Snow water equivalent	DWR snow pillow with GE Druck PMP 317 transducer	Accuracy: -0.6 to 2.6% (Palmer, 1986) Range: 0–100 in. (254 cm) water
24 h new snow, automated	Ultrasonic Judd depth sensor	See above
24 h new snow/SWE, manual	Snowmetrics 12" tube and spring scale	Observer and snowpack type dependent, but widely considered to be the most accurate method of measuring new snow and SWE
Air temperature/relative humidity	Campbell Scientific HMP45C	$\pm 0.4^\circ\text{C}$ accuracy for air temperature and $\pm 3\%$ for relative humidity