

There's No Business Like Snow Business!

Steve Hilberg

CoCoRaHS Project Manager

CoCoRaHS QC Team

"A snow lover living in the wrong place."

Snow Observations

- › The number of non-NA (i.e. ≥ 0) snowfall observations is fairly consistent
 - May through September average is 65 percent of all daily observations
 - October through April average is about 72 percent of all daily observations
- › These numbers are affected by the number of zero reports
 - Observers who enter zero for precipitation automatically have zero entered for snowfall

Snowfall Observations

- › For this last year (Oct-Apr), that means about 77,000 “additional” snow observations
- › From December through February, snow reporting errors are a big part of the QC load
- › This past season (Oct-Apr) approximately 700 QC tickets were entered for snow-related errors

Snowfall Observations –What Can We Do?

- › The snow training was updated in 2022.
 - Two national webinars were presented
 - Refinements being made based on comments and questions from the webinars
- › When possible observers making snowfall errors are contacted by HQ (me)
 - Typically snow as gauge catch
 - Trying to clarify difference between gauge catch and SWE
- › A training aid was developed to send to observers when contacted



Sample Email

Reporting Snow and Sleet

Precipitation Report Form

Submit Reset

Station Number :

Station Name :

* Denotes Required Field

1/14/2022

* Observation Date ?

7:00 AM

* Observation Time ?

0.55 in.

Gauge Catch: Rain and Melted Snow to the nearest hundredth inch that has fallen in the gauge during the past 24 hours, or T for trace, or NA for unknown. ?

Observation Notes: (This will be available to the public) ?

Not much wind with this storm - fluffy snow.

Comments are always helpful

24-hr Snowfall

6.2 in.

Snowfall: Accumulation of new snow in inches to the nearest tenth ?

0.57 in.

Snowfall SWE: Melted value from core to the nearest hundredth ?

Snowpack (Total Snow and Ice on Ground at Observation Time)

8.0 in.

Snowpack Depth: Total snow and ice (new and old) in inches to the nearest half inch ?

0.70 in.

Snowpack SWE: Melted value from core to the nearest hundredth ?

This is for the SWE of the total snow and ice on the ground, old plus new snow and ice. It is measured by taking a core of snow at the Snowpack Depth and melting it.

The depth of snow and/or sleet that fell in the past 24 hours measured on your snow board or flat, level surface is entered here.

This is the water measured by melting a core of the 24-hour snowfall taken from your snow board. If you do not take a separate core leave this as NA. Do not copy your Gauge Catch into this field.

Melt the frozen precipitation on the gauge and report it here. If you cannot melt or do not have a measurement, change to NA. Do not leave it as zero. Do not enter your 24-hour snowfall here.

This is the total depth of snow and ice on the ground each day, whether or not any new snow has fallen.

Android

CoCoRaHS Observer

Precipitation Report
IL-CP-1 (english)
Homer 2.0 N

Observation Date: 2016-12-06

Observation Time: 07:00

Rain/Melted Snow (in): 0.00

Click To Specify Snow & Flooding Info

optional notes

SUBMIT

Click this link to go to the snow data entry page

CoCoRaHS Observer

New Snow

Accumulation (in.): NA

Melted Core (in.): NA

Total Snow & Ice

Depth Total (in.): NA

Melted Core (in.): NA

Flooding Info

No flooding occurred

iOS

Logout Precip Report Details

CO-LR-1049
Fort Collins 0.3 SSE
US Units (in)
Precipitation Report

Observation Date: 2022-12-01

Observation Time: 07:00

Rain/Melted Snow: NA

Trace Precip.

More Details

Done

Click DONE after entering data on first screen.

Then, click "More Details" to go to the snow data entry page

Back Details view

New Snow

Accumulation (in/cm): NA

Melted Core (in/mm): NA

Total Snow & Ice

Depth Total (in/cm): NA

Melted Core (in/mm): NA

Flooding Info

Additional Notes

2024-2025 Season

- › Revise training based on feedback
- › Offer two to three national webinars on winter measurements, with the first in mid-to-late October
- › Monitor impact of the “Set Snow Values to Zero” button on the app.