So you want to implement a new network?

The series of CSA R100 standards can help expand your data's potential.

The series of CSA R100 **National Standards**



CSA R100:20

Canadian metadata standard for hydrometeorological monitoring stations



CSA R101:22

Automated hydrometeorological monitoring stations: site selection, instrument installation, and instrument maintenance



CSA R102:22

Data qualification for Canadian automated hydrometeorological monitoring stations



CSA R103:23

Protocols for sharing automated hydrometeorological monitoring stations data and metadata



TECHNICIAN

STEP 1

Decide where to put your station and what instrumentation to use.

R102:22





STEP 2

Decide how to set up each station to get accurate, representative observations.



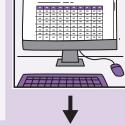


STEP 3

Collect appropriate metadata to describe how the station is set up.

R100:20

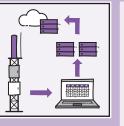




Data ingest into the enterprise database



DATA MANAGER



STEP 1

Decide how you will store and track metadata based on the information being collected.



R100:20



STEP 2

Decide how you will assess the quality of the data coming from the station(s).



R102:22



STEP 3

Decide how you will manage and share data with the user community.



R103:23

Benefits of using the standards



Ensure consistent methods for problem solving to keep operations manageable.



Collect comparable data for greater understanding about local differences in climate.



Collect representative data to ensure the data is accurate for the requirements.

Why are the standards important?

In Canada, the national source for weather and climate information is Environment and Climate Change Canada (ECCC). In addition to ECCC's extensive network of monitoring stations, there are potentially thousands of additional stations collecting useful information.

Using these standards will increase the quality of your data and make it more widely accessible--improving local knowledge on climate, and helping Canadians prepare for the future.







