

Command Reference: ReadNrCsAwdb()

Read 1+ time series from the NRCS AWDB web service

Version 10.13.00, 2012-11-07

The `ReadNrCsAwdb()` command reads one or more time series from the Natural Resources Conservation Service (NRCS) Air and Water Database (AWDB) web service (see the **NRCS AWDB Datastore Appendix**), including SNOTEL and Snow Course data.

The NRCS AWDB web service allows station lists to be filtered, both as a convenience and to ensure reasonable web service performance. Many of the choices that are available for limiting queries allow 0+ values to be provided. For example, specifying no requested element (data type) will return all available elements for a location. Specifying a list of elements (separated by commas) will return only stations and time series that have data for the requested elements.

The following dialog is used to edit the command and illustrates the syntax. Some choices are provided as a convenience. However, full listing of choices (such as all the thousands of HUCs) is not provided due to performance issues. Additional query features will be enabled as web service integration is enhanced.

Edit ReadNrCsAwdb Command

Read one or more time series from the National Resource Conservation Service (NRCS) Air and Water Database (AWDB) web service.

WARNING - This command can be slow. Constrain the query to improve performance.

Common choices are provided for convenience but may not apply (additional enhancements to web services may improve intelligent choices in the future).

Refer to the NRCS AWDB datastore documentation for more information.

Constrain the query by specifying time series metadata to match. **A location constraint must be specified.**

If not specified, the input period defaults to the input period from `SetInputPeriod()`.

[NRCS AWDB Documentation](#) [NRCS AWDB Online](#)

Data store: Required - data store containing data.

Interval: Required - data interval for data.

Location constraints (specify one or more)

Station ID(s): List of 1+ station IDs separated by commas.

State(s): List of 1+ state abbreviations separated by commas.

Networks(s): => List of 1+ network codes separated by commas (default=all).

HUC(s): List of 1+ (8-digit) HUCs separated by commas.

Bounding box: Bounding box: WestLon,SouthLat,EastLon,NorthLat

FIPS counties: => List of 1+ counties separated by commas.

Element(s): => Optional - list of element codes separated by commas (default=all).

Elevation, minimum: Optional - minimum elevation, feet (default=all).

Elevation, maximum: Optional - maximum elevation, feet (default=all).

Input start: Optional - YYYY-MM-DD, override the global input start.

Input end: Optional - YYYY-MM-DD, override the global input end.

Alias to assign: => Optional - use %L for location, etc. (default=no alias).

Command:
`ReadNrCsAwdb (DataStore="NrCsAwdb", Interval=Day, States="CO", Networks="SNTL", Elements="WTEQ", Alias="%L-%T")`

ReadNrCsAwdb

ReadNrCsAwdb() Command Editor

The command syntax is as follows:

```
ReadNrCsAwdb (Parameter=Value, ...)
```

Command Parameters

Parameter	Description	Default
DataStore	The NRCS AWDB datastore to use for queries.	None – must be specified.
Interval	The data interval (“duration” in NRCS AWDB terms) to query. The Irregular interval is used for instantaneous data.	None – must be specified.
Stations	A list of station identifiers to read, separated by commas.	Do not limit the query to a station list.
States	A list of state codes (e.g., AL), separated by commas.	Do not limit the query to a state list.
Networks	A list of data network codes (e.g., SNTL), separated by commas.	Do not limit the query to a network list.
HUCs	A list of 8-digit hydrologic unit codes, separated by commas.	Do not limit the query to a HUC list.
BoundingBox	A bounding box consisting of west longitude, south latitude, east longitude, and north latitude, separated by spaces. Longitudes in the western hemisphere are negative. This feature is not finalized, pending resolution of a web service issue.	Do not limit the query to a bounding box.
Counties	A list of county names, separated by commas. The state must be specified.	Do not limit the query to a county list.
Elements	Data element codes for the stations (e.g., WTEQ for snow water equivalent), separated by commas.	All available elements are returned.
ElevationMin	Minimum station elevation, feet.	Do not limit the query based on elevation minimum.
ElevationMax	Maximum station elevation, feet.	Do not limit the query based on elevation maximum.
InputStart	The start of the period to read data – specify if the period should be different from the global query period. Specify to the precision of the data using the format YYYY-MM-DD hh:mm.	Use the global query period.
InputEnd	The end of the period to read data – specify if the period should be different from the global query period. Specify to the precision of the data using the format YYYY-MM-DD hh:mm.	Use the global query period.
Alias	The alias to assign to the time series, as a literal string or using the special formatting characters listed by the command editor. The alias is a short identifier used by other commands to locate time series for processing, as an alternative to the time series identifier (TSID).	None – must be specified.