
Command Reference: ReadClimateStationsFromList()

Read climate station data from a list file to define climate stations

StateCU Command

Version 03.08.02, 2010-01-05

The `ReadClimateStationsFromList()` command reads a list of climate stations from a delimited list file and defines climate stations in memory. The climate stations can then be manipulated and output with other commands. The following dialog is used to edit the command and illustrates the syntax of the command.

Edit ReadClimateStationsFromList() Command

This command reads climate station from a list file containing columns of information. Climate station data are used by the consumptive use model to estimate water requirement. The climate stations, once defined, can be associated with locations where consumptive use is estimated, using Region1 (e.g., county) and Region2 (e.g., HUC). Columns should be delimited by commas (user-specified delimiters will be added in the future). It is recommended that the location of the file be specified using a path relative to the working directory. The working directory is: C:\Develop\StateDMI_SourceBuild\StateDMI\test\regression\UserManualRef\ReadClimateStationsFromList

List file:

Climate station ID column: Required - column (1+) for station identifier.

Name column: Optional - column (1+) for station name.

Latitude column: Optional - column (1+) for latitude.

Elevation column: Optional - column (1+) for elevation.

Region1 column: Optional - column (1+) for region 1 (e.g., county).

Region2 column: Optional - column (1+) for region 2 (e.g., HUC).

Command:

```
ReadClimateStationsFromList(ListFile="climsta.lst", IDCol=1)
```

ReadClimateStationsFromList

ReadClimateStationsFromList() Command Editor

The command syntax is as follows:

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

Command Parameters

Parameter	Description	Default
ListFile	The name of the list file to be read.	None – must be specified.
IDCol	The column number (1+) containing the climate station identifiers.	None – must be specified.
NameCol	The column number (1+) containing the climate station name.	None – optional (name will be initialized to blank).
LatitudeCol	The column number (1+) containing the climate station latitude.	None – optional (latitude will be initialized to missing data).
ElevationCol	The column number (1+) containing the climate station elevation.	None – optional (elevation will be initialized to missing data).
Region1Col	The column number (1+) containing the climate station Region1.	None – optional (Region1 will be initialized to blank).
Region2Col	The column number (1+) containing the climate station Region2.	None – optional (Region2 will be initialized to blank).

At a minimum, the list file must contain a column with station identifiers. Lines starting with the # character are treated as commas. Column names can be specified in the first non-comment line by enclosing each column name in quotes.

An example list file is shown below, for example created from CDSS TSTool software:

```
# Climate stations
"ID", "Name"
0130, "ALAMOSA SAN LUIS VALLEY RGNL"
0776, "BLANCA"
1458, "CENTER 4 SSW"
2184, "DEL NORTE 2 E"
3541, "GREAT SAND DUNES N M"
3951, "HERMIT 7 ESE"
5322, "MANASSA"
5706, "MONTE VISTA 2 W"
7337, "SAGUACHE"
```

The following example command file illustrates how climate stations can be defined from a list and written to a StateCU file:

```
ReadClimateStationsFromList(ListFile="climsta.lst", IDCol=1)
FillClimateStationsFromHydroBase( ID="*" )
SetClimateStation( ID="3016", Region2="14080106", IfNotFound=Warn)
SetClimateStation( ID="1018", Region2="14040106", IfNotFound=Warn)
SetClimateStation( ID="1928", Elevation=6440, IfNotFound=Warn)
SetClimateStation( ID="0484", Region1="MOFFAT", IfNotFound=Add)
WriteClimateStationsToStateCU( OutputFile="COclim2006.cli" )
```