Command Reference: SetCULocationClimateStationWeightsFromList()
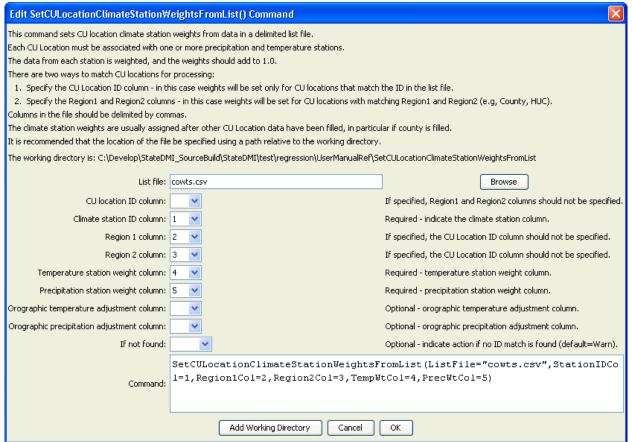
Set CU Location climate station weights from data in a list file

StateCU and StateMod Command
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The `SetCULocationClimateStationWeightsFromList()` command reads climate station weights from a list file and sets the information for CU Locations.

The following dialog is used to edit the command and illustrates the syntax of the command.

This command sets CU location climate station weights from data in a delimited list file.
Each CU Location must be associated with one or more precipitation and temperature stations.
The data from each station is weighted, and the weights should add to 1.0.
There are two ways to match CU locations for processing:
1. Specify the CU Location ID column - in this case weights will be set only for CU locations that match the ID in the list file.
2. Specify the Region1 and Region2 columns - in this case weights will be set for CU locations with matching Region1 and Region2 (e.g, County, HUC).
Columns in the file should be delimited by commas.
The climate station weights are usually assigned after other CU Location data have been filled, in particular if county is filled.
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\SetCULocationClimateStationWeightsFromList

List file:	cowts.csv	Browse
CU location ID column:		If specified, Region1 and Region2 columns should not be specified.
Climate station ID column:	1	Required - indicate the climate station column.
Region 1 column:	2	If specified, the CU Location ID column should not be specified.
Region 2 column:	3	If specified, the CU Location ID column should not be specified.
Temperature station weight column:	4	Required - temperature station weight column.
Precipitation station weight column:	5	Required - precipitation station weight column.
Orographic temperature adjustment column:		Optional - orographic temperature adjustment column.
Orographic precipitation adjustment column:		Optional - orographic precipitation adjustment column.
If not found:		Optional - indicate action if no ID match is found (default=Warn).

Command:
```
SetCULocationClimateStationWeightsFromList(ListFile="cowts.csv",StationIDCol=1,Region1Col=2,Region2Col=3,TempWtCol=4,PrecWtCol=5)
```

Add Working Directory   Cancel   OK

SetCULocationClimateStationWeightsFromList

SetCULocationClimateStationWeightsFromList() Command Editor

An example list file for setting data using Region1 (county) is shown below:

```
# RGDSS.WTS - Hand built climate weights file for the RGDSS analysis
#             Base on Climate Assignment memo prepared 9/21/99
# ID, Lat, County, HUC, TempWt, PrecWt
3951,37.7667,SAN JUAN,13010001,1.000,1.000
3951,37.7667,HINSDALE,13010001,1.000,1.000
2184,37.6833,RIO GRANDE,13010001,0.700,0.700
…
```

An example list file for setting data by CU location ID is shown below:

```
#Date and Time |Thu May 03 11:31:37 2007
#Input Polygon Theme |2001_Acreage_CW
#Polygon ID Field |PARCEL_ID
#Climate Weights Workspace |S:\CDSS\GIS\Climate_Wts
#Orographic Grids Workspace |#
0200552,2220,0.19,1
0200552,3553,0.39,1
0200552,5116,0.42,1
0200805,1179,0.39,1
0200805,2220,0.1,1
0200805,3553,0.51,1
```

The command syntax is as follows:

SetCULocationClimateStationWeightsFromList(Parameter=Value,…)

Command Parameters

Parameter	Description	Default
ListFile	The name of the input file to read, surrounded by double quotes.	None – must be specified.
IDCol	The column number (1+) containing the climate station identifier.	None – must be specified. If specified, Region1Col and Region2Col should not be specified.
Region1Col	The column number (1+) containing the Region1 identifier.	If specified, the ID column should not be specified.
Region2Col	The column number (1+) containing the Region2 identifier.	If specified, the ID column should not be specified.
TempWtCol	The column number (1+) containing the temperature station weights.	If not specified, the original values remain.
PrecWtCol	The column number (1+) containing the precipitation station weights.	If not specified, the original values remain.
Orographic TempAdjCol	The column number (1+) containing the orographic temperature adjustment factor (DEGF/1000 FT).	If not specified, the original values remain.
Orographic PrecAdjCol	The column number (1+) containing the orographic precipitation adjustment factor (fraction).	If not specified, the original values remain.
IfNotFound	Used for error handling, one of the following: • Fail – generate a failure message if the ID pattern is not matched • Ignore – ignore (don't generate a message) if the ID pattern is not matched • Warn – generate a warning message if the ID pattern is not matched	Warn