
Command Reference: FillCULocationClimateStationWeights ()

Fill CU Location climate station weights data

StateCU Command
Version 3.09.00, 2010-01-24

The FillCULocationClimateStationWeights() command fills climate station weights data in existing CU Locations. Only locations that have no climate stations assigned will be modified. The following dialog is used to edit the command and illustrates the syntax of the command.

Edit FillCULocationClimateStationWeights() Command

This command fills the climate station identifiers and weights associated with a CU location.
Only locations with no previous station weights are changed.
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.
The climate station weights should be specified using the format (, and ; are equivalent):
StationID,TempWt,PrecWt;StationID,TempWt,PrecWt,...
For example:
2184,.7,.7,3951,.3,.3
The weights are specified as a fraction 0.0 to 1.0.
If orographic adjustment factors are included, insert the factors after the weights in the order of temperature adjustment, precipitation adjustment, where the temperature adjustment is degrees F/1000 ft. of elevation and the precipitation adjustment is a fraction (0.0 to 1.0).

CU location ID: Required - specify the CU Location(s) to process (use * for wildcard)

Include orographic temperature adjustment?: Optional - include orographic temperature adjustment factor in data (default=False).

Include orographic precipitation adjustment?: Optional - include orographic precipitation adjustment factor in data (default=False).

Climate station weights:

If not found: Optional - indicate action if no match is found (default=Warn).

Command:

FillCULocationClimateStationWeights (ID="36*",Weights="4664,1.0,0,3592,0,1.0")

OK

Cancel

FillCULocationClimateStationWeights

FillCULocationClimateStationWeights () Command Editor

The command syntax is as follows:

FillCULocationClimateStationWeights (Parameter=Value,...)

Command Parameters

Parameter	Description	Default
ID	A single CU Location identifier to match or a pattern using wildcards (e.g., 20*).	None – must be specified.
Include Orographic TempAdj	If True, include the orographic temperature adjustment factor, after the Weights described below, specified as degrees/1000 feet.	False
Include Orographic PrecAdj	If True, include the orographic precipitation adjustment factor, after the Weights described below, specified as a fraction 0.0 to 1.0. Place after the orographic temperature adjustment factor if it is specified.	False
Weights	A repeating pattern of StationID, TempWt, PrecWt, where the station identifiers match climate station identifiers and the weights are specified as fractions in the range 0.0 to 1.0. Also include the orographic temperature and/or orographic precipitation adjustment factors if the above parameters are True.	None – must be specified.
IfNotFound	Used for error handling, one of the following: <ul style="list-style-type: none"> 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

An example command file is shown below:

```
ReadCULocationsFromList(ListFile="cmstrlist.csv",IDCol=1,NameCol=6)
FillCULocationsFromHydroBase(ID="*",CULocType=Structure,Region1Type=County,Region2Type=HUC)
SetCULocationsFromList(ListFile="cmstrlist.csv",IDCol=1,LatitudeCol=2,AWCCol=11)
SetCULocationsFromList(ListFile="plateau.csv",IDCol=1,Region1Col=2)
SetCULocationClimateStationWeightsFromList(ListFile="cowts.csv",StationIDCol=1,
    Region1Col=2,Region2Col=3,TempWtCol=4,PrecWtCol=5)
FillCULocationClimateStationWeights(ID="72_ADC065",Weights="3146,0.68,0.68,3489,0.32,0.32")
FillCULocationClimateStationWeights(ID="36*",Weights="4664,1.0,0.3592,0,1.0")
FillCULocationClimateStationWeights(ID="37*",Weights="2454,1.0,1.0")
FillCULocationClimateStationWeights(ID="38*",Weights="3359,1.0,1.0")
FillCULocationClimateStationWeights(ID="39*",Weights="7031,1.0,1.0")
FillCULocationClimateStationWeights(ID="45*",Weights="7031,1.0,1.0")
FillCULocationClimateStationWeights(ID="50*",Weights="3500,0.5,0.5,4664,0.5,0.5")
FillCULocationClimateStationWeights(ID="51*",Weights="3500,0.5,0.5,4664,0.5,0.5")
FillCULocationClimateStationWeights(ID="52*",Weights="9265,1.0,1.0")
FillCULocationClimateStationWeights(ID="53*",Weights="9265,1.0,1.0")
FillCULocationClimateStationWeights(ID="70*",Weights="0214,1.0,1.0")
FillCULocationClimateStationWeights(ID="72*",Weights="1741,1.0,1.0")
FillCULocationClimateStationWeights(ID="950001",Weights="3146,0.68,0.68,3489,0.32,0.32")
FillCULocationClimateStationWeights(ID="950010",Weights="7031,1.0,1.0")
FillCULocationClimateStationWeights(ID="950011",Weights="7031,1.0,1.0")
FillCULocationClimateStationWeights(ID="950050",Weights="3146,0.68,0.68,3489,0.32,0.32")
WriteCULocationsToStateCU(OutputFile="cm2006.str",WriteHow=OverwriteFile)
# Check the results
CheckCULocations(ID="*")
WriteCheckFile(OutputFile="cm2006.str.check.html")
```