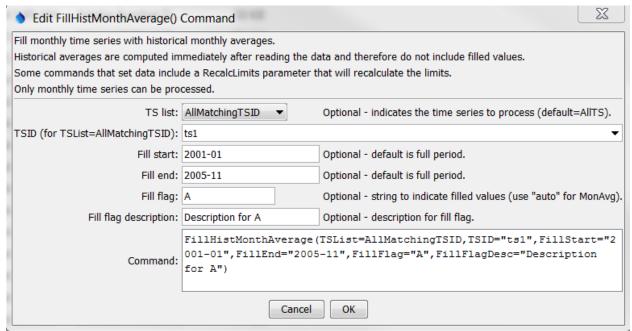
Command Reference: FillHistMonthAverage()

Fill missing time series data using historical monthly average data

/ersion 11.03.07, 2015-06-24

The FillHistMonthAverage() command fills missing data in monthly time series with the average monthly values. The average values are computed using the available data period (or specified averaging period – see the SetAveragePeriod() command) immediately after the time series is read and are then applied when this command is encountered.

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



FillHistMonthAverage() Command Editor

FillHistMonthAverage

The command syntax is as follows:

FillHistMonthAverage (Parameter=Value, ...)

Command Parameters

Parameter	Description	Default
TSList	Indicate how to determine the list of time series to process, one of:	None – must be
		specified.
	 AllMatchingTSID – process time series that have identifiers 	
	matching the TSID parameter.	
	■ AllTS – process all the time series.	
	• FirstMatchingTSID – process the first time series that has	
	an identifier matching the TSID parameter.	
	 LastMatchingTSID – process the last time series that has an 	
	identifier matching the TSID parameter.	

Parameter	Description	Default
	■ SelectedTS – process the time series that are selected (see	
	SelectTimeSeries()).	
TSID	Used if TSList=AllMatchingTSID to indicate the time series	Required if
	identifier or alias for the time series to be filled. Specify * to match	TSList=AllMa
	all time series or use a wildcard for one or more identifier parts. Can	tchingTSID.
	be specified using processor \${Property}.	
FillStart	Date/time indicating the start of filling, using a precision appropriate	Fill the entire
	for the time series, or OutputStart. Can be specified using	time series.
	<pre>processor \${Property}.</pre>	
FillEnd	Date/time indicating the end of filling, using a precision appropriate	Fill the entire
	for the time series, or OutputEnd. Can be specified using	time series.
	<pre>processor \${Property}.</pre>	
FillFlag	If specified, data flags will be enabled for the time series and each	No flag is
	filled value will be tagged with the specified string. The flag can	assigned.
	then be used later to label graphs, etc. The flag will be appended to	
	existing flags if necessary. Use Auto to use a flag with the month	
	abbreviation + Avg. Can be specified using processor	
	\${Property}.	
FillFlag	Description for the fill flag, used in reports. Can be specified using	Automatically
Desc	<pre>processor \${Property}.</pre>	generated.

The following command files fill a time series from the State of Colorado's HydroBase:

```
# 0125 - ALAMOSA
0125.NOAA.Precip.Month~HydroBase
FillHistMonthAverage(TSList=AllMatchingTSID,TSID="0125.NOAA.Precip.Month"
,
FillFlag="H")
```

```
0125.NOAA.Precip.Month~HydroBase
FillHistMonthAverage(TSList=AllMatchingTSID,TSID="019*",FillFlag="H")
```

Time series data limits for the averages are printed to the log file, similar to the following examples (note that the period for averaging is always shown and may be different than the output period).

Month	Min	MinDate	Max	MaxDate	Sum		% Miss.			Mean
Jan	0.2	1949-01	0.2	1949-01	0.2	0	0.00	1	100.00	0.2
Feb	0.1	1949-02	0.1	1949-02	0.1	0	0.00	1	100.00	0.1
Mar	0.1	1949-03	0.1	1949-03	0.1	0	0.00	1	100.00	0.1
Apr	-999.0		-999.0		-999.0	1	100.00	0	0.00	-999.0
May	-999.0		-999.0		-999.0	1	100.00	0	0.00	-999.0
Jun	0.7	1949-06	0.7	1949-06	0.7	0	0.00	1	100.00	0.7
Jul	1.5	1949-07	1.5	1949-07	1.5	0	0.00	1	100.00	1.5
Aug	0.7	1949-08	0.8	1948-08	1.5	0	0.00	2	100.00	0.8
Sep	0.1	1948-09	1.1	1949-09	1.2	0	0.00	2	100.00	0.6
Oct	0.1	1949-10	0.5	1948-10	0.7	0	0.00	2	100.00	0.3
Nov	0.0	1949-11	0.8	1948-11	0.8	0	0.00	2	100.00	0.4
Dec	0.0	1949-12	0.2	1948-12	0.2	0	0.00	2	100.00	0.1