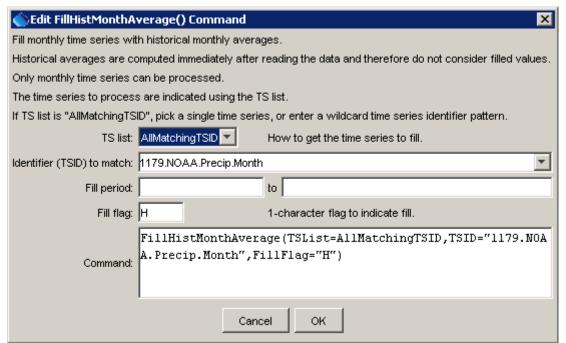
## Command Reference: FillHistMonthAverage()

Fill missing time series data using historical monthly average data

/ersion 08.15.00, 2008-05-04

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.
	<ul> <li>AllMatchingTSID – process time series that have identifiers matching the TSID parameter.</li> <li>AllTS – process all the time series.</li> <li>SelectedTS – process the time series that are selected (see</li> </ul>	

Parameter	Description	Default
	selectTimeSeries()).	
TSID	Used if TSList=AllMatchingTSID	Required if
	to indicate the time series identifier or	TSList=AllMatchingTSID.
	alias for the time series to be filled.	
	Specify * to match all time series or use	
	a wildcard for one or more identifier	
	parts.	
FillStart	Date/time indicating the start of filling,	Fill the entire time series.
	using a precision appropriate for the time	
	series, or OutputStart.	
FillEnd	Date/time indicating the end of filling,	Fill the entire time series.
	using a precision appropriate for the time	
	series, or OutputEnd.	
FillFlag	If specified as a single character, data	No flag is assigned.
	flags will be enabled for the time series	
	and each filled value will be tagged with	
	the specified character. The flag can	
	then be used later to label graphs, etc.	
	The flag will be appended to existing	
	flags if necessary.	

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).

MOHCHLY	limits	for period	1948-08 to 1949-12	are:						
						#		# Not		
Month	Min	MinDate	Max	MaxDate	Sum	Miss.	Miss.	Miss.	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
Period	0.0	1949-11	1.5	1949-07	6.9	2	11.76	15	88.24	0.5