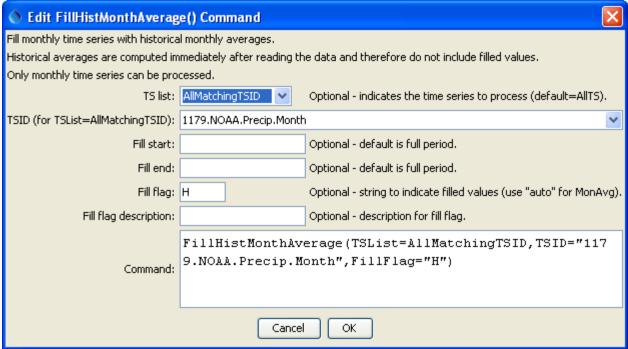
## Command Reference: FillHistMonthAverage()

Fill missing time series data using historical monthly average data

Version 09.07.00, 2010-06-14

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>FirstMatchingTSID – process the first time series that has an identifier matching the TSID parameter.</li> </ul>	

Parameter	Description	Default
	<ul> <li>LastMatchingTSID – process the last time series that has an identifier matching the TSID parameter.</li> <li>SelectedTS – process the time series that are selected (see SelectTimeSeries ()).</li> </ul>	
TSID	Used if TSList=AllMatchingTSID to indicate the time series identifier or alias for the time series to be filled.  Specify * to match all time series or use a wildcard for one or more identifier parts.	Required if TSList=AllMatchin gTSID.
FillStart	Date/time indicating the start of filling, using a precision appropriate for the time series, or OutputStart.	Fill the entire time series.
FillEnd	Date/time indicating the end of filling, using a precision appropriate for the time series, or OutputEnd.	Fill the entire time series.
FillFlag	If specified, data flags will be enabled for the time series and each filled value will be tagged with the specified string. The flag can 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.	No flag is assigned.
FillFlag Desc	Description for the fill flag, used in reports.	Automatically 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).

		c averages			llow					
		125.NOAA.P for period	-		l are:					
Month		-		MaxDate		# Miss.			% Not 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