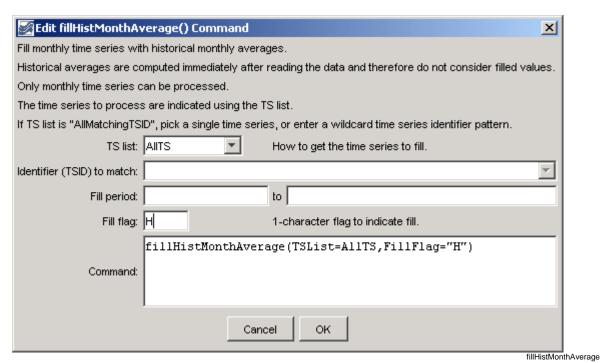# Command Reference: fillHistMonthAverage()

Fill missing time series data using historical monthly average data

Version 06.10.01, 2005-06-08, Color, Acrobat Distiller

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

The command syntax is as follows:

```
fillHistMonthAverage(param=value,…)
```

Command Parameters

Parameter	Description	Default
TSList	Indicate how to determine the list of time series to process, one of: ▪ AllMatchingTSID – process time series that have identifiers matching the TSID parameter. ▪ AllTS – process all the time series. ▪ SelectedTS – process the time series that are selected (see selectTimeSeries()).	None – must be specified.
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=AllMatchingTSID.
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 as a single character, data 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.	No flag is assigned.

Sample commands files are as follows:

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

```
# read time series…
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).

```
Status: Historic averages for time series follow...
Time series:  0125.NOAA.Precip.Month (IN)
Monthly limits for period 1948-08 to 1949-12 are:
                                            #      %     # Not  % 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
---------------------------------------------------------------------------------
```

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