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# Command Reference: fillHistYearAverage()

## Fill missing time series data using historical yearly average data

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

The `fillHistYearAverage()` command fills missing data in yearly time series with the average annual value. 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.

**Edit fillHistYearAverage() Command**

Fill yearly time series with historical yearly averages.  
Historical averages are computed immediately after reading the data and therefore do not consider filled values.  
Only yearly time series can be processed.  
The time series to process are indicated using the TS list.  
If TS list is "AllMatchingTSID", pick a single time series, or enter a wildcard time series identifier pattern.

TS list:  How to get the time series to fill.

Identifier (TSID) to match:

Fill period:  to

Fill flag:  1-character flag to indicate fill.

Command: 

```
fillHistYearAverage(TSList=AllMatchingTSID,TSID="*",FillFlag="H")
```

fillHistYearAverage

**fillHistYearAverage() Command Editor**

The command syntax is as follows:

```
fillHistYearAverage (param=value,...)
```

#### Command Parameters

Parameter	Description	Default
TSList	Indicate how to determine the list of time series to process, one of: <ul style="list-style-type: none"> <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 selectTimeSeries()).</li> </ul>	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.

A sample commands file is as follows:

```
LARIMER.NASS.CropArea-Vegetables, Harvested.Year~HydroBase  
fillHistYearAverage(TSList=AllMatchingTSID,  
TSID="LARIMER.NASS.CropArea-Vegetables, Harvested.Year")
```

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).

```
Min:                95.0000 ACRE on 1954  
Max:                2684.0000 ACRE on 1959  
Sum:               11090.0000 ACRE  
Mean:              1008.1818 ACRE  
Number Missing:      42 (79.25%)  
Number Not Missing: 11 (20.75%)  
Total period: 1945 to 1997  
Non-missing data period: 1945 to 1997
```

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