
Command Reference:

FillDiversiionHistoricalTSMonthlyPattern()

Fill diversion historical time series (monthly) values using WET/DRY/AVG values

StateMod Command

Version 3.09.01, 2010-02-01

The `FillDiversiionHistoricalTSMonthlyPattern()` command fills missing diversion historical time series (monthly) data, using average monthly wet/dry/average values. The historical averages are computed using patterns read by the `ReadPatternFile()` command. The average values that are used during data filling are printed to the log file. For example, if a value is missing for May 1980, the pattern for the specified pattern identifier is checked for WET, DRY, or AVG. The values of all May's for WET, DRY, or AVG are then averaged in the time series to be filled, and the resulting average used to fill missing data. This command therefore will result in filled values that are more appropriate than simple averages; however, work must be done to characterize the wet, dry, and average months.

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

Edit FillDiversiionHistoricalTSMonthlyPattern() Command

This command fills missing data in monthly diversion historical time series.
Missing values are replaced with monthly average - average values are computed by this command using the pattern data.
One or more `ReadPatternFile()` commands must be used before this command.
The station ID can contain a * wildcard pattern to match one or more time series.
Collections (diversion aggregates and systems) may have already been filled during initial processing and can be skipped.
The fill period can optionally be specified. Only months in the output period can be filled.

Diversion station ID:	<input type="text" value="36*"/>	Specify the diversion stations to fill (use * for wildcard)
Include collections:	<input type="button" value="v"/>	Optional - default=True.
Fill start:	<input type="text"/>	Optional - start date or blank to fill all.
Fill end:	<input type="text"/>	Optional - end date or blank to fill all.
Pattern identifier:	<input type="text" value="09034500"/>	Required - pattern ID to use for filling.
<= zero values in average?:	<input type="button" value="v"/>	Optional - are values <= zero used in averages (default=True).
Fill flag:	<input type="text"/>	Optional - 1-character flag to track filled values, or "Auto".
If not found:	<input type="button" value="v"/>	Optional - indicate action if no match is found (default=Warn).
Command:	<pre>FillDiversiionHistoricalTSMonthlyPattern(ID="36*", PatternID="09034500")</pre>	

OK Cancel

FillDiversiionHistoricalTSMonthlyPattern() Command Editor

The command syntax is as follows:

```
FillDiversionHistoricalTSMonthlyPattern (Parameter=Value,...)
```

Command Parameters

Parameter	Description	Default
ID	A single diversion station identifier to match or a pattern using wildcards (e.g., 20*).	None – must be specified.
IncludeCollections	Indicates whether time series for collections (diversion stations that are aggregates or systems) are included in the processing. If the time series for these stations have been filled during the read, then it may not be necessary to fill again. On the other hand, it may be necessary to use the sum of the time series to fill missing data.	True
FillStart	The first date to fill.	If not specified, fill the full period.
FillEnd	The last date to fill.	If not specified, fill the full period.
PatternID	The pattern identifier for data read with a <code>ReadPatternFile()</code> command.	None – must be specified.
LEZeroInAverage	Indicates whether values ≤ 0 should be considered when computing monthly averages.	True
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.
IfNotFound	Used for error handling, one of the following: <ul style="list-style-type: none"> • Fail – generate a failure message if the ID is not matched • Ignore – ignore (don't add and don't generate a message) if the ID is not matched • Warn – generate a warning message if the ID is not matched 	Warn