

Command Reference: SetConstant()

Set time series data to a single or monthly constant values

Version 11.03.00, 2015-06-01

The `SetConstant()` command sets the values of a time series to a single or monthly constant values.

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

Set time series data values to a single or monthly (Jan - Dec) constant values.
If the time series data interval is month or smaller, constant values for each month can be specified.
In this case, each date/time that matches a month will have its corresponding value set.

TS list: Optional - indicates the time series to process (default=AllTS).

TSID (for TSList=AllMatchingTSID):

EnsembleID (for TSList=EnsembleID):

Constant value: Required - use for all intervals (if monthly not specified).

Monthly values: Optional - monthly values, * to keep original, blank or NaN to set missing, separated by commas.

Set start: Optional - set start (default is all).

Set End: Optional - set end (default is all).

Command:

```
SetConstant(TSList=LastMatchingTSID,TSID="08235700.DWR.Streamflow.Month",ConstantValue=0,SetEnd="1950-01")
```

Cancel OK

SetConstant() Command Editor

The command syntax is as follows:

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

Command Parameters

Parameter	Description	Default
TSList	Indicates the list of time series to be processed, one of: <ul style="list-style-type: none">AllMatchingTSID – all time series that match the TSID (single TSID or TSID with wildcards) will be modified.AllTS – all time series before the command.EnsembleID – all time series in the ensemble will be modified.LastMatchingTSID – the last time series that matches the TSID (single TSID or TSID with wildcards) will be modified.	AllTS

Parameter	Description	Default
	<ul style="list-style-type: none"> SelectedTS – the time series are those selected with the SelectTimeSeries() command. 	
TSID	The time series identifier or alias for the time series to be modified, using the * wildcard character to match multiple time series. Can set using processor \${Property}.	Required if TSList=*TSID.
EnsembleID	The ensemble to be modified, if processing an ensemble. Can set using processor \${Property}.	Required if TSList=EnsembleID.
ConstantValue	The constant value to use as the data value.	None – must be specified, or specify monthly values.
MonthValues	Monthly values to use as the data values. Twelve values for Jan – Dec must be specified, separated by commas. * indicates to keep the original value. Blank or NaN indicates to set the value to missing. If the time series data interval is less than monthly, each date/time will be set for a specific month.	None – must be specified, or specify a constant value.
SetStart	The starting date/time for the data set. Can set using processor \${Property}.	Set data for the full period.
SetEnd	The ending date/time for the data set. Can set using processor \${Property}.	Set data for the full period.

A sample command file to process a time series from the State of Colorado's HydroBase is as follows (only the early period is set to zero):

```
# 08235700 - ALAMOSA RIVER BELOW CASTLEMAN GULCH NEAR JASPER
08235700.DWR.Streamflow.Month~HydroBase
SetConstant(TSList=AllMatchingTSID,TSID="08235700.DWR.Streamflow.Month",
  ConstantValue=0,SetEnd="1950-01")
```