
Command Reference: AddConstant()

Add a constant value to all data values in a time series (or ensemble)

Version 09.10.01, 2010-11-18

The `AddConstant()` command adds a constant value to each data value in a time series (or ensemble of time series) within the specified period. This command is useful, for example, when a time series needs to be adjusted for a constant bias. Another example is to adjust a reservoir total volume time series by the dead pool storage in order to compute the active storage (or inverse). Missing data values will remain missing in the result.

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

Edit AddConstant() Command

Add a constant to the data values for the specified time series.
Specify dates with precision appropriate for the data, use blank for all available data, OutputStart, or OutputEnd.

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

TSID (for TSList=AllMatchingTSID):

EnsembleID (for TSList=EnsembleID):

Constant value to add: Required - constant value to add.

Analysis start date/time: Optional - analysis start (default=full period).

Analysis end date/time: Optional - analysis end (default=full period).

Command:

```
AddConstant (TSList=AllMatchingTSID, TSID="2003536.DWR.ResMeasStorage.Day", ConstantValue=5000)
```

AddConstant

AddConstant() Command Editor

The command syntax is as follows:

```
AddConstant (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. SelectedTS – the time series are those selected with the SelectTimeSeries() command. 	AllTS
TSID	The time series identifier or alias for the time series to be modified.	TSID or EnsembleID must be specified.
EnsembleID	The ensemble to be modified, if processing an ensemble.	TSID or EnsembleID must be specified.
ConstantValue	The data value to add to the time series.	None – must be specified.
AnalysisStart	The date/time to start analyzing data.	Full period.
AnalysisEnd	The date/time to end analyzing data.	Full period.

A sample commands file to process data from the State of Colorado's HydroBase is as follows:

```
# 2003536 - CONTINENTAL RES
2003536.DWR.ResMeasStorage.Day~HydroBase
AddConstant (TSList=AllMatchingTSID,TSID="2003536.DWR.ResMeasStorage.Day",
ConstantValue=5000)
```

CommandReference/AddConstant/Example_AddConstant_HydroBase.TSTool