

# Command Reference: ReplaceValue()

## Replace a range of data values with a constant Value

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The `ReplaceValue()` command replaces a range of values in a time series with a constant value, sets the values to missing, or removes the values (if an irregular time series). If the missing value indicator is a number in the range, missing values also will be replaced. This command is useful for filtering out erroneous data values. See also the `CheckTimeSeries()` command, which provides for a variety of checks and also allows values to be set to missing or removed.

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

**ReplaceValue() Command Editor**

The command syntax is as follows:

```
ReplaceValue (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"><li>AllMatchingTSID – all time series that match the TSID (single TSID or TSID with wildcards) will be processed.</li><li>AllTS – all time series before the command.</li><li>EnsembleID – all time series in the</li></ul>	AllTS

	<p>ensemble will be processed.</p> <ul style="list-style-type: none"> <li>• FirstMatchingTSID – the first time series that matches the TSID (single TSID or TSID with wildcards) will be processed.</li> <li>• LastMatchingTSID – the last time series that matches the TSID (single TSID or TSID with wildcards) will be processed.</li> <li>• SelectedTS – the time series are those selected with the SelectTimeSeries( ) command.</li> </ul>	
TSID	The time series identifier or alias for the time series to be processed, using the * wildcard character to match multiple time series.	Required if TSList=*TSID.
EnsembleID	The ensemble to be processed, if processing an ensemble.	Required if TSList=EnsembleID.
MinValue	The minimum value to replace.	None – must be specified.
MaxValue	The maximum value to replace.	If not specified, only data values that exactly match the minimum value will be replaced.
NewValue	The new data value.	Required, unless the Action parameter is specified.
Action	<p>An additional action to take with values that are matched:</p> <ul style="list-style-type: none"> <li>• Remove – remove the data points. This can only be specified for irregular interval time series and will be interpreted as SetMissing for regular interval time series.</li> <li>• SetMissing – set values to missing.</li> </ul>	No additional action is taken and the NewValue parameter must be specified.
SetStart	The date/time to start filling, if other than the full time series period.	Check the full period.
SetEnd	The date/time to end filling, if other than the full time series period.	Check the full period.
AnalysisWindow Start	The starting date/time within the calendar year to replace data. The window CANNOT cross calendar year boundaries (this may be allowed in the future). Use multiple commands if necessary.	Process each full year.
AnalysisWindow End	The ending date/time within the calendar year to replace data.	Process each full year.
SetFlag	A string to assign to data values that are replaced.	Do not assign a string flag.

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

```
# 08235700 - ALAMOSA RIVER BELOW CASTLEMAN GULCH NEAR JASPER
08235700.DWR.Streamflow.Month-HydroBase
ReplaceValue(TSList=AllTS,MinValue=-100000,MaxValue=0,NewValue=0)
```