## Command Reference: SetTimeSeriesValuesFromLookupTable()

Set time series values by using an input time series and a lookup table

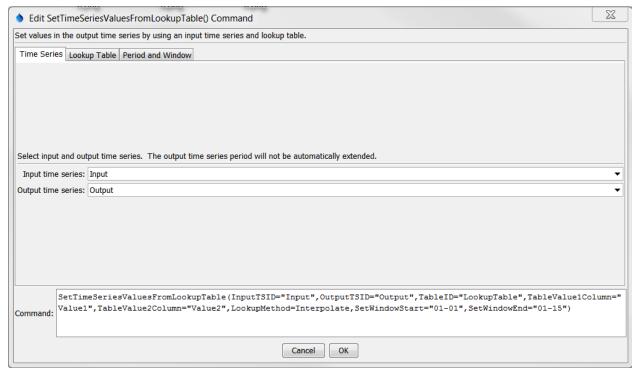
ersion 11.08.00. 2016-02-0

The SetTimeSeriesValuesFromLookupTable() command uses an input time series and lookup table to set values in the output time series. Examples of using this command include:

- Converting reservoir elevation to storage, surface area, seepage, or other values
- Converting river stage to discharge
- Converting a time series to category values
- Lookup up values from a distribution

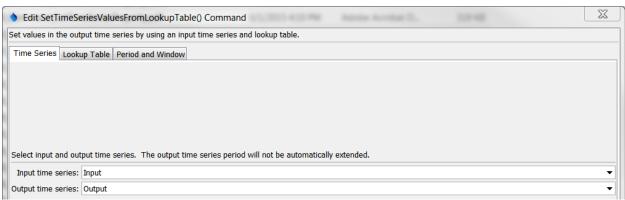
In many cases the lookup table will apply throughout the analysis period. The values in the table should be sorted in ascending order prior to lookup. This command currently does not handle rating table shifts; however, this capability may be added in the future. Missing (null) and NaN values in the lookup table are removed before processing so that lookups are performed only on rows with input and output values.

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



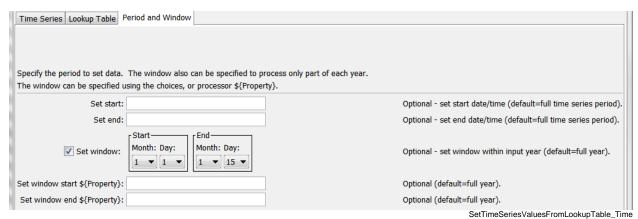
SetTimeSeriesValuesFromLookupTable

SetTimeSeriesValuesFromLookupTable() Command Editor for Time Series Parameters



SetTimeSeriesValuesFromLookupTable\_Lookup

## SetTimeSeriesValuesFromLookupTable() Command Editor for Lookup Table Parameters



SetTimeSeriesValuesFromLookupTable() Command Editor for Period and Window Parameters

The command syntax is as follows:

SetTimeSeriesValuesFromLookupTable(Parameter=Value,...)

## **Command Parameters**

Parameter	Description	Default
InputTSID	The time series identifier or alias for the time series used as	None – must be
	input. Can be specified with \${Property} notation.	specified.
OutputTSID	The time series identifier for the time series being modified.	None – must be
	Use the <i>Edit</i> button to edit the time series identifier parts.	specified.
	Can be specified with \${Property} notation.	
TableID	The lookup table identifier. Can be specified with	None – must be
	\${Property} notation.	specified.
Table	Table column name that is used to match the time series	If not specified,
TSIDColumn	identifier for processing. This parameter currently is not	it is assumed
	supported but will be enabled in the future.	that the entire
		lookup table
		applies.
Table	The specification to format the time series identifier to	Time series
TSIDFormat	match the TableTSIDColumn column. This parameter	alias if
		available, or

Parameter	Description	Default
	currently is not supported but will be enabled in the future.	otherwise the time series identifier.
Table Value1Column	Table column name for data values that correspond to the input time series (InputTSID). Can be specified with \${Property} notation.	None – must be specified.
SortInput	Whether to sort the lookup table. The order is checked to ensure the data are sorted but forcing the sort when not needed is a performance hit.	Rely on table being sorted.
Table Value2Column	Table column name for data values that correspond to the output time series identifier (OutputTSID). Can be specified with \${Property} notation.	None – must be specified.
Effective DateColumn	Table column name for the effective date. This parameter currently is not supported but will be enabled in the future.	The lookup data apply to the entire period.
LookupMethod	<ul> <li>Indicate how to select the value to use for output:         <ul> <li>Interpolate – interpolate between points if input values do not exactly align with table values; if</li></ul></li></ul>	Interpolate
OutOfRange LookupMethod	(exact matches use the lookup table value)  Indicate the value to use when estimating values that are outside the range of the rating table:	SetMissing
Hookupricerioa	<ul> <li>Extrapolate – use the two known values at the end of the table to extrapolate; if         Transformation=Log, then extrapolation will use the transformed values</li> <li>SetMissing – set output to missing</li> <li>UseEndValue – use the data value on the end</li> </ul>	
OutOfRange Notification	Indicate the notification to generate when a value is outside the range of the lookup table:  Ignore – do not generate warning or failure message  Warn – generate a warning message  Fail – generate a failure message	Ignore
Transformation	Indicates how to transform the data before interpolation, used when LookupMethod=Interpolate and OutOfRangeMethod=Extrapolate). Specify as None to compare raw values or Log (for log <sub>10</sub> ) to transform values before interpolation and extrapolation. If the Log option is used, zero and negative values are replaced with the value specified by the LEZeroLogValue parameter value for analysis (missing data values are ignored in the analysis).	None (no transformation).

Parameter	Description	Default
LEZero	Value to use for data values less than or equal to zero when	.0010
LogValue	using a log transformation.	
SetStart	The date/time to start setting values. Can be specified with	Set the full
	\${Property} notation.	period.
SetEnd	The date/time to end setting values. Can be specified with	Set the full
	\${Property} notation.	period.
SetWindowStart	The calendar date/time for the set start within each year.	Lookup values
	Specify using the format MM, MM-DD, MM-DD hh, or MM-	for the full year.
	DD hh:mm, consistent with the time series interval	
	precision. A year of 2000 will be used internally to parse	
	the date/time. Use this parameter to limit data processing	
	within the year, for example to output only a single month	
	or a season. A processor \${Property} can be specified	
	using the text field under the window date editor.	
SetWindowEnd	Specify date/time for the output end within each year. See	Lookup values
	SetWindowStart for details. A processor	for the full year.
	\${Property} can be specified using the text field under	
	the window date editor.	