
Command Reference: writeStateMod()

Write Time Series to a StateMod Format File

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The `writeStateMod()` command writes the time series in memory to the specified StateMod format file. See the **StateMod Input Type Appendix** for more information about the file format. It is expected that the time series have the same interval. The time series identifier location part is written as the identifier, even if an alias is assigned to a time series.

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

Edit writeStateMod() Command

Write time series to a StateMod format file.

It is recommended that the file name be relative to the working directory.

The working directory is: J:\CDSS\develop\apps\TSTool\test\Commands\writeStateMod

The Browse button can be used to select an existing file to overwrite (or edit the file name after selection).

For the precision, a negative integer allows auto-adjustment to prevent overflow.

The time series to process are indicated using the TS list.

If TS list is "AllMatchingTSID", pick a single time series, or enter a wildcard time series identifier pattern.

TS list: How to get the time series to write.

Identifier (TSID) to match:

StateMod file to write:

Output start: Overrides the global output start.

Output end: Overrides the global output end.

Missing value: Value to write for missing data (default=-999).

Output precision: Digits after decimal (default=-2).

Command:

```
writeStateMod(TSList=AllTS,OutputFile="RioGrande.rih")
```

writeStateMod

writeStateMod() Command Editor

The command syntax is as follows:

```
writeStateMod(param=value,...)
```

Command Parameters

Parameter	Description	Default
TSList	Indicate how to determine the list of time series to process, one of: <ul style="list-style-type: none"> AllMatchingTSID – process time series that have identifiers matching the TSID parameter. AllTS – process all the time series. SelectedTS – process the time series that are selected (see selectTimeSeries()). 	None – must be specified.
TSID	Used if TSList=AllMatchingTSID to indicate the time series identifier or alias for the time series to be filled. Specify * to match all time series or use a wildcard for one or more identifier parts.	Required if TSList=AllMatchingTSID.
OutputFile	The StateMod file to write. The path to the file can be absolute or relative to the working directory. The Browse button can be used to select the file to write (if a relative path is desired, delete the leading path after the select).	None – must be specified.
OutputStart	The date/time for the start of the output.	Use the global output period.
OutputEnd	The date/time for the end of the output.	Use the global output period.
MissingValue	The value to write for missing data.	-999
Precision	The number of digits to use after the decimal point, for data values. A negative number indicates that if the formatted number is larger than the allowed output width, adjust the format accordingly by truncating fractional digits. A special value of -2001 is equivalent to -2 and additionally NO decimal point will be printed for large values.	The default output precision if not specified is -2, which is then reset based on the data units (see the <i>system\DATAUNIT</i> file).

A sample commands file is as follows:

```
setOutputPeriod(1950-01,2002-12)
# 08213500 - RIO GRANDE RIVER AT THIRTY MILE BRIDGE NEAR CREEDE
08213500.DWR.Streamflow.Month~HydroBase
# 08217000 - RIO GRANDE AT WASON, BELOW CREEDE, CO.
08217000.USGS.Streamflow.Month~HydroBase
writeStateMod(TSList=AllTS,OutputFile="RioGrande.rih")
```