

# Command Reference: ReadStateMod()

## Read all the time series from a StateMod time series file

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The `ReadStateMod()` command reads all the time series in a StateMod time series file (see the **StateMod Input Type Appendix**). Single time series can be read by using time series identifier (TSID) commands.

Water rights files also can be read and converted to time series – this is useful for visualization, water supply analysis, and is used to test well right processing. Considering all water rights for a location based on the administration number results in a step function of decree over time. Monthly and yearly time series use calendar year and a right is active if it is turned on anywhere in the month or year. Free water rights (e.g., those having administration numbers > 90000.00000 are treated like other rights and therefore may not impact the results in the current period because the corresponding appropriation date is in the future (additional parameters may be added in the future to allow more ways to process these rights). If processing well rights and multiple years of parcel data are processed, this command executes the same logic as the `StateDMI MergeWellRights()` command.

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

**Edit ReadStateMod() Command**

Read all the time series from a StateMod time series or water right file, using information in the file to assign the identifier.  
The data source and data type will be blank in the resulting time series identifier (TSID).  
Specify the interval and parcel year only for well rights, as appropriate.  
Specify a full or relative path (relative to working directory).  
The working directory is: C:\Develop\TSTool\_SourceBuild\TSTool\test\regression\commands\general\ReadStateMod

StateMod file to read:

Input start:  Optional - overrides the global input start.

Input end:  Optional - overrides the global input end.

Alias to assign:  Insert:  Optional - use %L for location, etc. (default=no alias).

Interval:  Optional for rights - interval for resulting time series (default=Year).

Spatial aggregation:  Optional for rights - spatial aggregation (default=Location).

Parcel year:  Optional for well rights - read a single irrigated lands year (default=read all).

Command:

ReadStateMod

### ReadStateMod() Command Editor

The command syntax is as follows:

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

### Command Parameters

Parameter	Description	Default
InputFile	The name of the StateMod time series file to read, surrounded by double quotes. The path to the file can be absolute or relative to the working directory. Global property values can be inserted using the syntax <code>\${PropertyName}</code> (see also the <code>SetProperty()</code> command).	None – must be specified.
InputStart	The start of the period to read data – specify if the period should be different from the global query period. Specify to a precision that matches the data. If reading water rights, the output time series will start on this date.	Use the global query period or if not specified read all data.  The default for water rights is the date of the first right.
InputEnd	The end of the period to read data – specify if the period should be different from the global query period. Specify to a precision that matches the data. If reading water rights, the output time series will end on this date.	Use the global query period or if not specified read all data.  The default for water rights is the date of the last right.
Alias	The alias to assign to the time series that are read. Use the format choices and other characters to define a unique alias.	No alias is assigned.
Interval	When reading a water right file, specify the interval for the resulting time series, one of Day, Month, or Year.	Year
Spatial Aggregation	When reading a water right file, indicate how time series are to be aggregated spatially, one of: <ul style="list-style-type: none"> <li>Location – aggregate by the station identifier.</li> <li>Parcel – (only used with well rights) aggregate based on the parcel number and parcel year.</li> <li>None – do not aggregate spatially, which will result in constant value time series for each water right.</li> </ul>	Location
ParcelYear	When processing a well water right file, indicate the year of parcel data to process. Parcel configurations change from year to year, and a single year of parcel data can be processed if desired.	Process all parcel years.

A sample command file is as follows:

```
ReadStateMod (InputFile="ym2004.ddh" )
```