

# Command Reference: TS Alias = NewTimeSeries()

Create a new time series

Version 09.08.01, 2010-09-15

The `NewTimeSeries()` command creates a new time series in memory and assigns it an alias. This time series can then be manipulated (e.g., added to, filled). This command is useful, for example, to create a new time series to receive the results of a series of manipulations, rather than having the results accumulate in the first time series.

The following dialog is used to edit the command and illustrates the syntax for the command. The new time series identifier is edited by pressing the **Edit** button.

**Edit TS Alias = NewTimeSeries() Command**

Create a new time series, which can be referenced using the alias or TSID.  
Specify period start and end date/times using a precision consistent with the data interval.

Time series alias:  Required - use in other commands instead of TSID.

New time series ID:  Required - specify to avoid confusion with TSID from original TS.

Description/Name:

Start:  Optional - starting date/time for time series (default=SetOutputPeriod() start).

End:  Optional - ending date/time for time series (default=SetOutputPeriod() end).

Data units:  Optional - for example: ACFT, CFS, IN (default=no units).

Initial value:  Optional - default is initialize with missing value.

Command: 

```
NewTimeSeries(NewTSID="Station1.MyModel.Streamflow.Month",Description="Example Description",SetStart="1950-01",SetEnd="2002-12",Units="CFS",InitialValue=20)
```

NewTimeSeries

## NewTimeSeries() Command Editor

The command syntax is as follows:

```
TS Alias = NewTimeSeries(Parameter=Value,...)
```

### Command Parameters

Parameter	Description	Default
Alias	The alias of the new time series, which can be used in place of the TSID in other commands.	None – must be specified.
NewTSID	The time series identifier of the new time series. The editor dialog formats the identifier from its parts.	None – must be specified with at least minimal information (location, data type, interval).
Description	The description for the time series, used in output.	Blank.
SetStart	The start of the time series data period, or blank to use the output period defined with the SetOutputPeriod() command.	Use the start from SetOutputPeriod().
SetEnd	The end of the time series data period, or blank to use the output period defined with the SetOutputPeriod() command.	Use the end from SetOutputPeriod().
Units	Data units for the time series.	Blank.
InitialValue	The initial value to populate the time series.	Initialize the time series to missing data.

The example commands file shown below creates a new time series and initializes it to a constant of 20 CFS. Uncommenting the first command would allow the SetStart and SetEnd parameters to be removed from the NewTimeSeries() command. The interval (Month below) must match a recognized type but the other parts of the identifier are not standardized.

```
SetOutputPeriod(OutputStart="1950-01",OutputEnd="2002-12")
TS station1 = NewTimeSeries(NewTSID="Station1.MyModel.Streamflow.Month",
  Description="Example Description",SetStart="1950-01",
  SetEnd="2002-12",Units="CFS",InitialValue=20)
```