Command Reference: NewEndOfMonthTSFromDayTS()

Use a daily time series to create an end of month time series

Version 10.00.00, 2011-03-27

The `NewEndOfMonthTSFromDayTS()` command is typically used to convert a daily reservoir storage time series to an end of month reservoir storage time series. The command can also be applied to other data types (e.g., measured well levels).

Changing from a daily to an end of month monthly time series is accomplished by starting on the month ending day and searching in both directions (backward then forward by expanding until the bracket is reached) for a daily measurement. The number of days to search in each direction (the bracket) should not be so large as to produce unrealistic results. It is possible that no value will be found for a particular month, with the given restraints. In this case, other fill commands (e.g., `FillInterpolate()`) can be applied to estimate the remaining missing data.

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

NewEndOfMonthTSFromDayTS_Alias

NewEndOfMonthTSFromDayTS() Command Editor

The command syntax is as follows:

```
NewEndOfMonthTSFromDayTS(Parameter=Value,…)
```

The following older command syntax is updated to the above syntax when a command file is read:

```
TS Alias = NewEndOfMonthTSFromDayTS (Parameter=Value,…)
```

Command Parameters

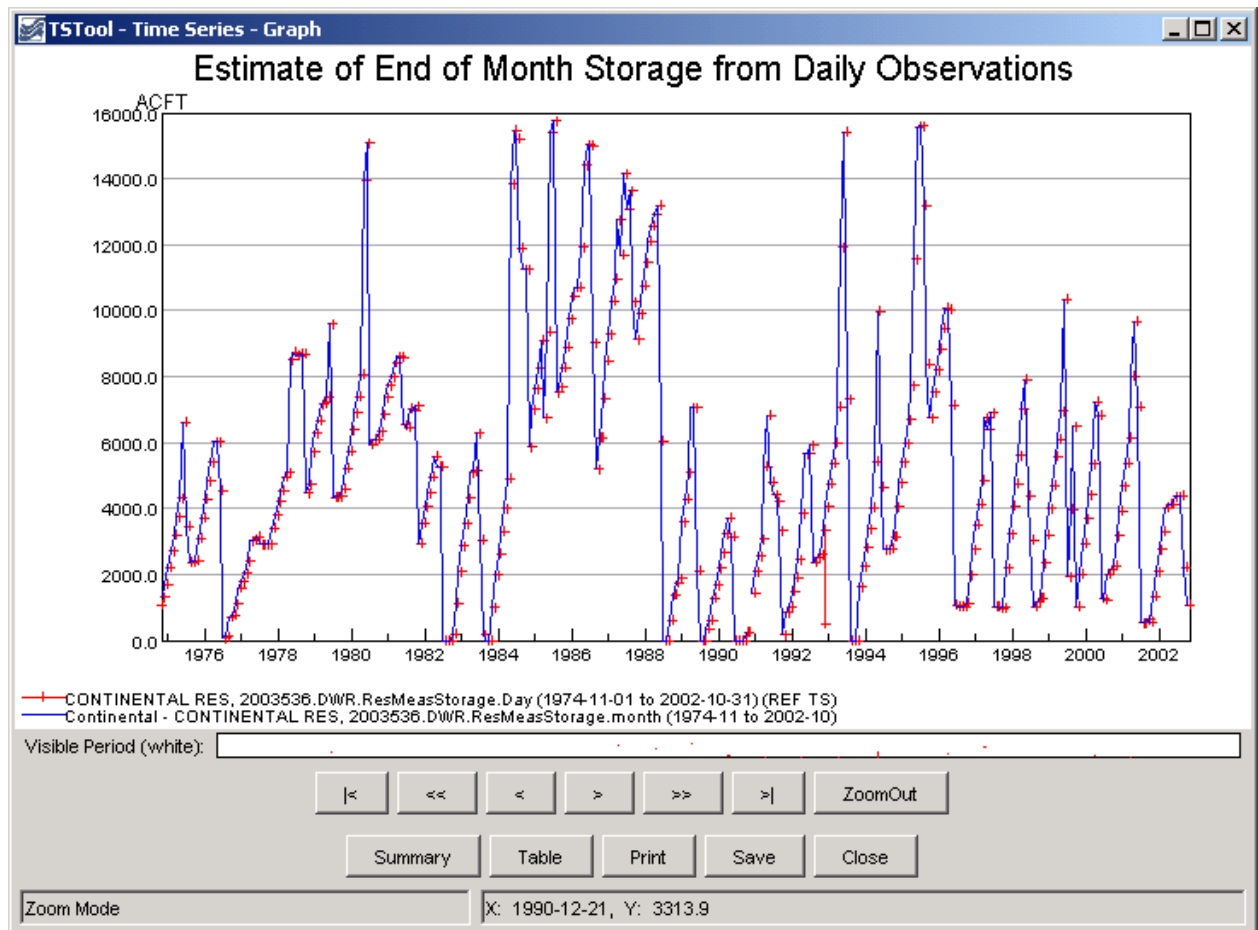| Parameter	Description	Default
DayTSID	The time series identifier or alias of the daily time series to be searched for data.	None – must be specified.
Alias	The alias to assign to the time series, as a literal string or using the special formatting characters listed by the command editor. The alias is a short identifier used by other commands to locate time series for processing, as an alternative to the time series identifier (TSID).	None – must be specified.
Bracket	The number of days to search from the end of the month, in order to find a daily value to transfer to the end of the month.	None – must be specified.

A sample command file for estimating reservoir contents, using data from the State of Colorado's HydroBase database is:

```
# 2003536 – CONTINENTAL RES
2003536.DWR.ResMeasStorage.Day~HydroBase
NewEndOfMonthTSFromDayTS(Alias="Continental",
    DayTSID="2003536.DWR.ResMeasStorage.Day",Bracket=15)
```

A sample command file for estimating well levels is:

```
# 384549104445101 – SCO1506611ABC
384549104445101.USGS.WellLevel.Day~HydroBase
NewEndOfMonthTSFromDayTS(Alias="WellMonth",
    DayTSID="384549104445101.USGS.WellLevel.Day",Bracket=30)
    FillInterpolate(TSList=AllMatchingTSID,TSID="WellMonth",
    MaxIntervals=0,Transformation=None)
```

To evaluate the results of this command, it is useful to graph both the input and results, changing the graph properties to add symbols to see the individual measurements, as shown in the following figure.

NewEndOfMonthTSFromDayTS_Graph

Results of NewEndOfMonthTSFromDayTS() Command

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